U.S. SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 40 - F

[Check One]

☐ **REGISTRATION STATEMENT PURSUANT TO SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934**

OR

☒ **ANNUAL REPORT PURSUANT TO SECTION 13(a) OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934.**

For the fiscal year ended October 31, 2017 **Commission File Number: 1 - 14678**

CANADIAN IMPERIAL BANK OF COMMERCE

(Exact name of registrant as specified in its charter)

Canada	**6029**	**13-1942440**
(Province or other jurisdiction of incorporation or organization)	**(Primary Standard Industrial Classification Code Number)**	**(I.R.S. Employer Identification Number)**

Commerce Court
Toronto, Ontario
Canada, M5L 1A2
(416) 980-2211
(Address and telephone number of registrant's principal executive offices)

Michael G. Capatides
Senior Executive Vice-President, Chief Administrative Officer and General Counsel
Canadian Imperial Bank of Commerce
425 Lexington Avenue – 3rd Floor
New York, New York, 10017
(212) 667-8301
(Name, address (including zip code) and telephone number (including area code) of agent for service in the United States)

Securities registered or to be registered pursuant to Section 12(b) of the Act.

Title of each class	**Name of each exchange on which registered**
Common Shares	**New York Stock Exchange**

Securities registered or to be registered pursuant to Section 12(g) of the Act.

Not Applicable
(Title of Class)

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act.

Debt Securities
(Title of Class)

For annual reports, indicate by check mark the information filed with this Form:

☒ **Annual Information Form** ☒ **Audited annual financial statements**

Indicate the number of outstanding shares of each of the issuer's classes of capital or common stock as of the close of the period covered by the annual report:

Common Shares	439,329,713
Class A Preferred Shares:	

Series 39	16,000,000
Series 41	12,000,000
Series 43	12,000,000
Series 45	32,000,000

Indicate by check mark whether the Registrant by filing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934 (the “Exchange Act”). If “Yes” is marked, indicate the file number assigned to the Registrant in connection with such Rule.

Yes ☐ No ☒

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Exchange Act during the preceding 12 months (or for such period that the Registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days.

Yes ☒ No ☐

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 12b-2 of the Exchange Act. Emerging growth company ☐

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards† provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the Registrant was required to submit and post such files).

Yes ☐ No ☐

Not Applicable.

UNDERTAKING

Registrant undertakes to make available, in person or by telephone, representatives to respond to inquiries made by the Commission staff, and to furnish promptly, when requested to do so by the Commission staff, information relating to: the securities in relation to which the obligation to file an annual report on Form 40-F arises or transactions in said securities.

DISCLOSURE REQUIRED BY NYSE LISTED COMPANY MANUAL

A summary of the significant differences between the governance practices of the Registrant and those required of U.S. domestic companies under the New York Stock Exchange listing standards can be found in the Governance section of the Registrant's website at https://www.cibc.com/ca/inside-cibc/governance/governance-practices/disclosure-nyse-manual.html.

DISCLOSURE REQUIRED BY IRAN THREAT REDUCTION AND SYRIA HUMAN RIGHTS ACT OF 2012

Under the Iran Threat Reduction and Syrian Human Rights Act of 2012 ("ITRSHRA"), which added Section 13(r) of the Exchange Act, the Registrant is required to include certain disclosures in its periodic reports if it or any of its "affiliates" knowingly engaged in certain specified activities during the period covered by the report. The Registrant is not presently aware that it or its affiliates have knowingly engaged in any transaction or dealing reportable under Section 13(r) of the Exchange Act during the year ended October 31, 2017.

SIGNATURE

Pursuant to the requirements of the Exchange Act, the Registrant certifies that it meets all of the requirements for filing on Form 40-F and has duly caused this annual report to be signed on its behalf by the undersigned, thereto duly authorized.

Date: November 30, 2017

CANADIAN IMPERIAL BANK OF COMMERCE

By: /s/ Victor G. Dodig
Victor G. Dodig
President and Chief Executive Officer

By: /s/ Kevin Glass
Kevin Glass
Senior Executive Vice-President and
Chief Financial Officer

EXHIBITS

(Information to be filed on this Form pursuant to General Instruction (references are to paragraphs to General Instructions))

Exhibit	Description of Exhibit
B.3(a)	Annual Information Form
B.3(b)	Audited consolidated financial statements for the year ended October 31, 2017 excerpted from pages 94-172 of the 2017 Annual Report of Canadian Imperial Bank of Commerce ("CIBC") including the Independent auditors' reports of registered public accounting firm to shareholders with respect to the report on financial statement related to the consolidated balance sheets as at October 31, 2017 and October 31, 2016 and the consolidated statements of income, comprehensive income, changes in equity and cash flows for each of the years in the three-year period ended October 31, 2017 and the report on internal controls under standards of the Public Company Accounting Oversight Board (United States) as of October 31, 2017
B.3(c)	Management's discussion and analysis excerpted from pages 1-93 of CIBC's 2017 Annual Report
B.3(d)	Other Pages of CIBC's 2017 Annual Report incorporated in Annual Information Form
B.6(a)(1)	Certifications required by Rule 13a-14(a)
B.6(a)(2)	Certifications required by Rule 13a-14(b) and Section 1350 of Chapter 63 of Title 18 of the United States Code
B.6(b)	Conclusions regarding the effectiveness of the Registrant's disclosure controls and procedures (contained in Exhibit B.3(c))
B.6(c)	Management's annual report on internal control over financial reporting (contained in Exhibit B.3(c))
B.6(d)	Report of the registered public accounting firm on management's assessment of internal control over financial reporting (contained in Exhibit B.3(b))
B.6(e)	Changes in internal control over financial reporting (contained in Exhibit B.3(c))
B.7	None
B.8	Disclosure regarding audit committee financial expert
B.9	Disclosure regarding code of ethics
B.10	Principal accountant fees and services
B.11	Disclosure regarding off-balance sheet arrangements (contained in Exhibit B.3(c))
B.12	Tabular disclosure of contractual obligations
B.14	Identification of the audit committee (contained in Exhibit B.3(a))
D.9	Consent of Independent Registered Public Accounting Firm

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Exhibit B.3(a): Annual Information Form

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Canadian Imperial Bank of Commerce

ANNUAL

INFORMATION

FORM

November 29, 2017

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A NOTE ABOUT FORWARD-LOOKING STATEMENTS

From time to time, we make written or oral forward-looking statements within the meaning of certain securities laws, including in this Annual Information Form, in other filings with Canadian securities regulators or the U.S. Securities and Exchange Commission and in other communications. All such statements are made pursuant to the "safe harbour" provisions of, and are intended to be forward-looking statements under applicable Canadian and U.S. securities legislation, including the U.S. Private Securities Litigation Reform Act of 1995. These statements include, but are not limited to, statements made about our operations, business lines, financial condition, risk management, priorities, targets, ongoing objectives, strategies, the regulatory environment in which we operate and outlook for calendar year 2018 and subsequent periods. Forward-looking statements are typically identified by the words "believe", "expect", "anticipate", "intend", "estimate", "forecast", "target", "objective" and other similar expressions or future or conditional verbs such as "will", "should", "would" and "could". By their nature, these statements require us to make assumptions and are subject to inherent risks and uncertainties that may be general or specific. A variety of factors, many of which are beyond our control, affect our operations, performance and results, and could cause actual results to differ materially from the expectations expressed in any of our forward-looking statements. These factors include: credit, market, liquidity, strategic, insurance, operational, reputation and legal, regulatory and environmental risk; the effectiveness and adequacy of our risk management and valuation models and processes; legislative or regulatory developments in the jurisdictions where we operate, including the Dodd-Frank Wall Street Reform and Consumer Protection Act and the regulations issued and to be issued thereunder, the Organisation for Economic Co-operation and Development Common Reporting Standard, and regulatory reforms in the United Kingdom and Europe, the Basel Committee on Banking Supervision's global standards for capital and liquidity reform, and those relating to bank recapitalization legislation and the payments system in Canada; amendments to, and interpretations of, risk-based capital guidelines and reporting instructions, and interest rate and liquidity regulatory guidance; the resolution of legal and regulatory proceedings and related matters; the effect of changes to accounting standards, rules and interpretations; changes in our estimates of reserves and allowances; changes in tax laws; changes to our credit ratings; political conditions and developments, including changes relating to economic or trade matters; the possible effect on our business of international conflicts and the war on terror; natural disasters, public health emergencies, disruptions to public infrastructure and other catastrophic events; reliance on third parties to provide components of our business infrastructure; potential disruptions to our information technology systems and services; increasing cyber security risks which may include theft of assets, unauthorized access to sensitive information, or operational disruption; social media risk; losses incurred as a result of internal or external fraud; anti-money laundering; the accuracy and completeness of information provided to us concerning clients and counterparties; the failure of third parties to comply with their obligations to us and our affiliates or associates; intensifying competition from established competitors and new entrants in the financial services industry including through internet and mobile banking; technological change; global capital market activity; changes in monetary and economic policy; currency value and interest rate fluctuations, including as a result of market and oil price volatility; general business and economic conditions worldwide, as well as in Canada, the U.S. and other countries where we have operations, including increasing Canadian household debt levels and global credit risks; our success in developing and introducing new products and services, expanding existing distribution channels, developing new distribution channels and realizing increased revenue from these channels; changes in client spending and saving habits; our ability to attract and retain key employees and executives; our ability to successfully execute our strategies and complete and integrate acquisitions and joint ventures; the risk that expected synergies and benefits of the acquisition of PrivateBancorp, Inc. will not be realized within the expected time frame or at all; and our ability to anticipate and manage the risks associated with these factors. This list is not exhaustive of the factors that may affect any of our forward-looking statements. These and other factors should be considered carefully and readers should not place undue reliance on our forward-looking statements. We do not undertake to update any forward-looking statement that is contained in this Annual Information Form or in other communications except as required by law.

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INFORMATION INCORPORATED BY REFERENCE

Certain disclosure in this Annual Information Form (AIF) is derived and incorporated by reference from CIBC's 2017 Annual Report for the year ended October 31, 2017 (2017 AR). The table below identifies pages from the 2017 AR which are incorporated by reference into this AIF. The 2017 AR is available on SEDAR at www.sedar.com.

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Unless otherwise specified, this AIF presents information as at October 31, 2017.

CORPORATE STRUCTURE

Name, Address and Incorporation

Canadian Imperial Bank of Commerce (CIBC) is a diversified financial institution governed by the *Bank Act* (Canada). CIBC was formed through the amalgamation of The Canadian Bank of Commerce and Imperial Bank of Canada in 1961. The Canadian Bank of Commerce was originally incorporated as Bank of Canada by special act of the legislature of the Province of Canada in 1858. Subsequently, the name was changed to The Canadian Bank of Commerce and it opened for business under that name in 1867. Imperial Bank of Canada was incorporated in 1875 by special act of the Parliament of Canada and commenced operations in that year. The address of the registered and head office of CIBC is Commerce Court, Toronto, Ontario, Canada, M5L 1A2.

Intercorporate Relationships

Information about the intercorporate relationships among CIBC and its significant subsidiaries is provided on page 164 of the 2017 AR.

DESCRIPTION OF THE BUSINESS

The CIBC Organization

CIBC is a leading Canadian-based financial institution. CIBC serves its clients through four main businesses: Canadian Personal and Small Business Banking, Canadian Commercial Banking and Wealth Management, U.S. Commercial Banking and Wealth Management and Capital Markets.

Canadian Personal and Small Business Banking provides personal and small business clients across Canada with financial advice, products and services through a team of advisors in our banking centres, as well as through our direct, mobile and remote channels.

Canadian Commercial Banking and Wealth Management provides high-touch, relationship-oriented commercial and private banking, as well as wealth management services to meet the needs of middle-market companies, entrepreneurs, high-net-worth individuals and families, along with institutional clients across Canada.

U.S. Commercial Banking and Wealth Management provides high-touch, relationship-oriented commercial, personal and small business banking, as well as wealth management services to meet the needs of middle-market companies, executives, entrepreneurs, high-net-worth individuals and families in the markets we serve in the U.S.

Capital Markets provides integrated global markets products and services, investment banking advisory and execution, corporate banking and top-ranked research to corporate, government and institutional clients around the world.

CIBC's four main businesses are supported by the following functional groups: Administration, Client Connectivity and Innovation, Finance, Human Resources and Communications, Internal Audit, Risk Management, and Technology and Operations, as well as other support groups, which are all included in Corporate and Other. Information about CIBC's business lines and functional groups is provided in the 2017 AR on pages 1 to 93.

A more complete description of services provided by Canadian Personal and Small Business Banking, Canadian Commercial Banking and Wealth Management, U.S. Commercial Banking and Wealth Management and Capital Markets can be found in the 2017 AR on pages 18 to 27.

Competitive Conditions

CIBC was the fifth largest Canadian chartered bank in terms of market capitalization as at October 31, 2017.

CIBC operated in an environment of healthy economic growth in Canada and an improving backdrop abroad in 2017. Canada enjoyed low unemployment rates that supported an acceleration in spending and consumer credit. The housing sector and growth in mortgage credit showed some signs of cooling as the year progressed, capturing regulatory and interest rate policy decisions. Corporate credit quality improved on a rebound in oil prices and a generally healthy environment, while business loan demand grew at a somewhat slower pace. Bond market issuance by corporations and the federal government picked up, while equity issuance was lighter due to less merger and acquisition-driven activity. The U.S. economy showed steady growth and robust employment gains with somewhat slower national growth in bank lending and strong equity market gains.

Social and Environmental Policies

Additional information about our environmental policies and environmental risks can be found under "Management of risk – Other risks – Environmental risk" on page 77 of our 2017 AR. Furthermore, CIBC's Corporate Responsibility Report and Public Accountability Statement summarizes our commitment to our stakeholders and highlights the activities we are undertaking to enhance our economic, environmental, social and governance contributions. This report is available at www.cibc.com under Corporate Responsibility.

Risk Factors

A discussion of risk factors related to CIBC and its business, and the steps taken to manage those risks appears throughout the 2017 AR and in particular under the heading "Management of risk" on pages 41 to 77.

GENERAL DEVELOPMENT OF THE BUSINESS

Three Year History

At CIBC, we are building a relationship-focused bank.

For many years, CIBC has reported a scorecard of financial objectives to evaluate and report on our progress to external stakeholders. These measures, for which CIBC has set targets over the medium term, defined as three to five years, are categorized into five key areas of shareholder value:

1. Earnings Growth
   - Average annual earnings per share (EPS) growth of at least 5%.
2. Efficiency Ratio
   - Run rate efficiency ratio (ratio of non-interest expenses to total revenue) of 55% by 2019.
3. Return on Common Shareholders' Equity
   - Return on common shareholders' equity (ROE) of at least 15%.
4. Total Shareholder Return
   - Dividend payout ratio of 40% to 50% of earnings to common shareholders.
   - Total shareholder return that exceeds the industry composite index on a rolling five-year basis.
5. Balance Sheet Strength
   - Maintain capital ratios that comfortably exceed the regulatory target set by the Office of the Superintendent of Financial Institutions (OSFI).

1. Earnings Growth

In 2017, CIBC achieved its earnings growth objective. Reported diluted EPS was $11.24 in 2017, compared with $10.70 in 2016, up 5%. Reported diluted EPS was $8.87 in 2015. Adjusted diluted EPS(1) was $11.11 in 2017, compared with $10.22 in 2016, up 9%. Adjusted diluted EPS(1) was $9.45 in 2015.

2. Efficiency Ratio

In 2017, CIBC made progress towards its 2019 efficiency ratio objective. The reported efficiency ratio was 58.8% compared with 59.7% in 2016 and 63.9% in 2015. The adjusted efficiency ratio(1) of 57.2% compared with 58.0% in 2016 and 59.6% in 2015.

3. Return on Common Shareholders' Equity

In 2017, reported ROE of 18.3% was above the 15% target but down from 19.9% in 2016. Reported ROE was 18.7% in 2015. Adjusted ROE(1) of 18.1% was above our target but down from 19.0% reported in 2016. Adjusted ROE(1) was 19.9% in 2015.

4. Total Shareholder Return

CIBC's 2017 reported dividend payout ratio was 45.6%, compared with 44.3% in 2016. The reported dividend payout ratio was 48.4% in 2015. CIBC's 2017 adjusted dividend payout ratio(1) was 46.2% compared with 46.4% in 2016. The adjusted dividend payout ratio(1) was 45.4% in 2015.

CIBC's rolling five-year total shareholder return for the period ended October 31, 2017 was 81.6% compared with 103.6% for the S&P/TSX Composite Banks Index.

5. Balance Sheet Strength

At the end of 2017, CIBC's Basel III Common Equity Tier 1 ratio on an all-in basis was 10.6%, well above the OSFI target.

(1) For additional information, see the "Non-GAAP measures" section on page 14 of the 2017 AR.

DIVIDENDS

CIBC has a common share dividend sub-policy of maintaining a balance between the distribution of profits to shareholders and the need to retain capital for safety and soundness, and to support growth of the businesses. In the context of this overall policy, CIBC's key criteria for considering dividend increases are the current payout ratio compared to the target, and its view on the sustainability of the level of current earnings through the cycle. Going forward CIBC will continue to target a dividend payout ratio of 40% to 50%.

The cash dividends declared and paid per share for each class of CIBC shares and restrictions on the payment of dividends can be found on pages 141 to 143 of the 2017 AR.

CAPITAL STRUCTURE

The following summary of CIBC's capital structure is qualified in its entirety by CIBC's by-laws and the actual terms and conditions of such shares. Additional detail on CIBC's capital structure is provided on pages 140 to 145 of the 2017 AR.

Description of Common Shares

CIBC's authorized common share capital consists of an unlimited number of common shares without nominal or par value. The holders of common shares are entitled to receive dividends as and when declared by the Board of Directors of CIBC (the Board), subject to the preference of holders of preferred shares. A holder of common shares is entitled to notice of and to attend all shareholders' meetings, except meetings at which only holders of a specified class or series of shares are entitled to vote, and for all purposes will be entitled to one vote for each common share held. In the event of liquidation, dissolution or winding-up of CIBC, after payment of all outstanding deposits and debts and subject to the preference of any shares ranking senior to the common shares, the holders of common shares will be entitled to a *pro rata* distribution of the remaining assets of CIBC. The holders of common shares have no pre-emptive, subscription, redemption or conversion rights. The rights, preferences and privileges of the common shares are subject to the rights of the holders of preferred shares.

Description of Preferred Shares

CIBC is authorized to issue an unlimited number of Class A Preferred Shares and Class B Preferred Shares without nominal or par value, issuable in series, with such rights, privileges, restrictions and conditions as the Board may determine, provided that, for each class of preferred shares, the maximum aggregate consideration for all outstanding shares, at any time does not exceed $10 billion. There are four series of Class A Preferred Shares currently outstanding (Series 39, 41, 43 and 45) and no Class B Preferred Shares currently outstanding.

The *Bank Act* (Canada) requires that banks maintain adequate capital in relation to their operations. The Superintendent of Financial Institutions (the Superintendent) establishes capital adequacy requirements for issuances of regulatory capital by banks. These requirements

include that all regulatory capital must be able to absorb losses in a failed financial institution. Effective January 1, 2013, in accordance with capital adequacy requirements adopted by the Superintendent, non-common capital instruments issued after January 1, 2013, including preferred shares, must include non-viability contingent capital provisions, providing for the full and permanent automatic conversion (a NVCC Automatic Conversion) of such non-common capital instruments into common shares upon the occurrence of certain trigger events relating to financial viability (the NVCC Provisions) in order to qualify as regulatory capital.

The following describes certain general terms and conditions of the preferred shares.

Certain Conditions of the Class A Preferred Shares as a Class

The following is a summary of certain provisions attached to the Class A Preferred Shares as a class.

Priority

The Class A Preferred Shares of each series of Class A Preferred Shares rank on a parity with every other series of Class A Preferred Shares and rank in priority to the Class B Preferred Shares and the common shares of CIBC with respect to the payment of dividends and on the distribution of assets in the event of the liquidation, dissolution or winding-up of CIBC, provided that a NVCC Automatic Conversion as contemplated under the NVCC Provisions applicable to a series of Class A Preferred Shares has not occurred.

Restrictions on Creation of Additional Class A Preferred Shares

In addition to any shareholder approvals required by applicable law, the approval of the holders of the Class A Preferred Shares given in the manner described under "Modification" below, is required for any increase in the maximum aggregate consideration for which the Class A Preferred Shares may be issued and for the creation of any shares ranking prior to or on a parity with the Class A Preferred Shares.

Modification

Approval of amendments to the provisions of the Class A Preferred Shares as a class and any other authorization required to be given by the holders of Class A Preferred Shares may be given by a resolution carried by an affirmative vote of not less than 66$^{2/3}$% of the votes cast at a meeting at which the holders of 10% of the outstanding Class A Preferred Shares are present or represented by proxy or, if no quorum is present at such meeting, at an adjourned meeting at which the shareholders then present would form the necessary quorum.

Rights on Liquidation

In the event of the liquidation, dissolution or winding-up of CIBC, provided that a NVCC Automatic Conversion as contemplated under the NVCC Provisions applicable to a series of Class A Preferred Shares has not occurred, the holders of the Class A Preferred Shares will be entitled to receive an amount equal to the price at which such shares are issued together with such premium, if any, as shall have been provided for with respect to the Class A Preferred Shares of any series, together with all declared and unpaid dividends, before any amount is paid or any assets of CIBC are distributed to the holders of any shares ranking junior to the Class A Preferred Shares. Upon payment to the holders of the Class A Preferred Shares of the amounts so payable to them, they will not be entitled to share in any further distribution of the assets of CIBC. If a NVCC Automatic Conversion as contemplated under the NVCC Provisions applicable to a series of Class A Preferred Shares has occurred, all of the Class A Preferred Shares of such series shall have been converted into common shares of CIBC in accordance with a pre-determined conversion formula specified at the time of issuance of the Class A Preferred Shares of such series and will rank on parity with all other common shares of CIBC.

Voting Rights

Subject to the provisions of the *Bank Act* (Canada), the directors of CIBC are empowered to set voting rights, if any, for each series of Class A Preferred Shares.

Contingent Conversion of Certain Series of Class A Preferred Shares

All of CIBC's currently outstanding Class A Preferred Shares (Series 39, 41, 43 and 45) were issued after January 1, 2013 and, accordingly, contain NVCC Provisions in their respective share terms and conditions. The number of common shares into which such Class A Preferred Shares would be converted upon a NVCC Automatic Conversion will be determined in accordance with a pre-determined conversion formula specified at the time of issuance of such Class A Preferred Shares.

***Bank Act* (Canada) restrictions related to share ownership**

The *Bank Act* (Canada) contains restrictions on the issue, transfer, acquisition, beneficial ownership and voting of all shares of a chartered bank. By way of summary, no person, or persons acting jointly or in concert, shall be a major shareholder of a bank if the bank has equity of $12 billion or more (which would include CIBC). A person is a major shareholder of a bank where: (i) the aggregate of the shares of any class of voting shares beneficially owned by that person, by entities controlled by that person and by any person associated or acting jointly or in concert with that person (as contemplated by the *Bank Act* (Canada)) is more than 20% of that class of voting shares; or (ii) the aggregate of the shares of any class of non-voting shares beneficially owned by that person, by entities controlled by that person and by any person associated or acting jointly or in concert with that person (as contemplated by the *Bank Act* (Canada)) is more than 30% of that class

of non-voting shares. No person, or persons acting jointly or in concert, shall have a significant interest in any class of shares of a bank, including CIBC, unless the person first receives the approval of the Minister of Finance (Canada). For purposes of the *Bank Act* (Canada), a person has a significant interest in a class of shares of a bank where the aggregate of any shares of the class beneficially owned by that person, by entities controlled by that person and by any person associated or acting jointly or in concert with that person (as contemplated by the *Bank Act* (Canada)) exceeds 10% of all of the outstanding shares of that class of shares of such bank.

In addition, the *Bank Act* (Canada) prohibits a bank, including CIBC, from recording in its securities register the transfer or issuance of shares of any class to Her Majesty in right of Canada or of a province, an agent or agency of Her Majesty, a government of a foreign country or any political subdivision of a foreign country, or an agent or agency of a foreign government. The *Bank Act* (Canada) also suspends the exercise of any voting rights attached to any share of a bank, including CIBC, that is beneficially owned by Her Majesty in right of Canada or of a province, an agency of Her Majesty, a government of a foreign country or any political subdivision of a foreign country, or any agency thereof.

Liquidity and Credit Ratings

CIBC funds its operations with client-sourced deposits, supplemented with a wide range of wholesale funding.

CIBC's principal approach aims to fund the balance sheet with deposits primarily raised from personal and commercial banking channels. CIBC maintains a foundation of relationship-based core deposits, whose stability is regularly evaluated through internally developed statistical assessments.

We routinely access a range of short-term and long-term secured and unsecured funding sources diversified by geography, depositor type, instrument, currency and maturity. We raise long-term funding from existing programs including covered bonds, asset securitizations and unsecured debt.

CIBC continuously evaluates opportunities to diversify into new funding products and investor segments in an effort to maximize funding flexibility and minimize concentration and financing costs. We regularly monitor wholesale funding levels and concentrations to internal limits consistent with our desired liquidity risk profile.

The Global Asset Liability Committee and Risk Management Committee review and approve CIBC's funding plan, which incorporates projected asset and liability growth, funding maturities, and output from our liquidity position forecasting.

Access to wholesale funding sources and the cost of funds are dependent on various factors including credit ratings. CIBC's wholesale funding and credit ratings are also discussed on pages 72 to 73 of the 2017 AR under the heading "Management of risk – Liquidity risk – Funding".

The table below provides the ratings for CIBC's Class A Preferred shares and debt obligations as at November 29, 2017:

	DBRS Limited (DBRS)	Fitch Ratings, Inc. (Fitch)	Moody's Investors Service, Inc. (Moody's)	Standard & Poor's Rating Services (S&P)
Short-term debt	R-1 (high)	F1+	P-1	A-1
Senior debt	AA	AA-	A1	A+
Subordinated indebtedness	AA (low)	A+	Baa1	BBB+
Subordinated indebtedness – NVCC	A (low)	A+	Baa2	BBB
Preferred shares – NVCC	Pfd-2	n/a	Baa3	P-3 (high)
Outlook	Negative (1)	Negative	Negative (2)	Stable

(1) Negative outlook applies to short-term debt, senior debt, and subordinated indebtedness ratings.
(2) Negative outlook only applies only to senior debt rating.
n/a Not available.

The ratings should not be construed as a recommendation to buy, sell, or hold CIBC securities. Ratings may be revised or withdrawn at any time by the respective rating agencies.

Definitions of rating categories are available on the respective rating agencies' websites and are outlined in Appendix A. More detailed explanations of the various rating categories may be obtained directly from the rating agencies.

As is common practice, CIBC has paid fees charged by all four of the above-noted rating agencies for their rating services and, to certain of the rating agencies, for other services during the last two years. CIBC reasonably expects that such payments will continue to be made for services in the future.

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MARKET FOR SECURITIES

CIBC maintains a listing of its common shares on the Toronto Stock Exchange and the New York Stock Exchange. CIBC maintains a listing of its Class A Preferred Shares on the Toronto Stock Exchange(1).

The following subordinated indebtedness securities issued by CIBC are listed on the London Stock Exchange:

- U.S. Dollar Floating Rate Debenture Notes Due 2084 with interest at 6-month US$ LIBOR plus 0.25%. To CIBC's knowledge, the issue did not trade on the exchange during the year ended October 31, 2017.
- U.S. Dollar Floating Rate Subordinated Capital Debentures Due 2085 with interest at 6-month US$ LIBOR plus 0.125%. To CIBC's knowledge, the issue did not trade on the exchange during the year ended October 31, 2017.

(1) From time to time securities of CIBC may be listed on other stock exchanges or quotation systems by investors, brokers or others without the consent or involvement of CIBC. This section does not include debt instruments that are deposits.

Trading Prices and Volume(1)

	2016		2017									
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.
Common Shares												
High	$106.28	$112.34	$113.35	$120.83	$120.66	$116.60	$110.99	$108.29	$109.60	$109.41	$110.39	$114.99
Low	$ 97.52	$106.50	$109.85	$110.81	$112.72	$108.84	$104.40	$104.50	$105.14	$104.44	$103.84	$109.30
Volume (thousands)	25,502	27,360	20,500	24,477	38,549	25,488	39,010	39,805	21,055	28,358	29,104	21,657
Preferred Shares Series 39												
High	$ 19.87	$ 20.02	$ 21.40	$ 22.65	$ 22.82	$ 22.97	$ 22.08	$ 21.83	$ 22.56	$ 22.52	$ 22.44	$ 23.97
Low	$ 19.00	$ 19.10	$ 19.42	$ 21.17	$ 22.05	$ 22.06	$ 20.99	$ 20.66	$ 21.82	$ 21.65	$ 22.00	$ 22.42
Volume (thousands)	481	406	363	235	326	174	229	781	249	97	287	425
Preferred Shares Series 41												
High	$ 19.47	$ 19.99	$ 20.98	$ 22.07	$ 22.30	$ 22.39	$ 21.79	$ 21.48	$ 22.17	$ 22.17	$ 22.11	$ 23.56
Low	$ 18.52	$ 18.59	$ 19.24	$ 20.67	$ 21.39	$ 21.56	$ 20.47	$ 20.16	$ 21.32	$ 21.24	$ 21.68	$ 22.13
Volume (thousands)	387	408	468	244	312	203	160	418	212	127	425	333
Preferred Shares Series 43												
High	$ 21.86	$ 21.99	$ 24.50	$ 23.99	$ 23.97	$ 23.80	$ 23.26	$ 23.85	$ 24.36	$ 24.25	$ 24.00	$ 24.80
Low	$ 20.42	$ 20.77	$ 21.77	$ 22.56	$ 22.93	$ 23.15	$ 22.26	$ 22.26	$ 23.69	$ 23.09	$ 23.34	$ 24.00
Volume (thousands)	278	401	179	156	124	592	401	549	170	108	137	132
Preferred Shares Series 45												
High								$ 25.10	$ 25.17	$ 25.16	$ 25.45	$ 25.46
Low					Issued June 2, 2017			$ 24.91	$ 25.04	$ 24.97	$ 25.01	$ 25.16
Volume (thousands)								8,620	5,015	2,112	1,456	1,042

(1) Data from the TSX Historical Data Access.

Prior Sales

CIBC did not issue any shares that are not listed or quoted on a marketplace during the year ended October 31, 2017. CIBC did not issue any subordinated indebtedness during the year.

Escrow Securities

The following securities were held in escrow as at October 31, 2017. AST Trust Company (Canada) is the custodian of these securities. These securities will remain in escrow and not be released until the date and conditions set out in the escrow agreement are met.

Designation of class	Number of securities held in escrow or that are subject to a contractual restriction on transfer	Percentage of class
Common shares	355,357	0.081 %

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DIRECTORS AND OFFICERS

Directors and Board Committees

Information concerning the directors and board committees of CIBC is found on page 186 of the 2017 AR.

All of the directors have held their business affiliations indicated on page 186 of the 2017 AR for the past five years with the exception of the following:

(i) Patrick D. Daniel was previously President and Chief Executive Officer, Enbridge Inc. from 2001 to 2012;
(ii) Kevin J. Kelly was previously Lead Director of the Ontario Securities Commission from 2010 to 2012; and
(iii) Christine E. Larsen is currently the Executive Vice-President, Chief Operations Officer of First Data Corporation, a position she has held since June 2013. Prior to June 2013, she held the following positions with JPMorgan Chase & Co.: Executive Vice-President, Head of Process Improvement from 2012 to 2013; and Head of Mortgage Servicing from 2011 to 2012.

Directors are elected annually. Under the *Bank Act* (Canada) and CIBC's by-laws, a director's term expires at the close of the next annual meeting of shareholders, which is scheduled for April 5, 2018.

Executive Officers

The following are CIBC's executive officers, their titles and their municipalities of residence, as at November 29, 2017:

Name	Title	Municipality of Residence
Victor G. Dodig	President and Chief Executive Officer, CIBC	Toronto, Ontario, Canada
Michael G. Capatides	Senior Executive Vice-President, Chief Administrative Officer and General Counsel	Morristown, New Jersey, U.S.
Harry Culham	Senior Executive Vice-President and Group Head, Capital Markets	Toronto, Ontario, Canada
Laura Dottori-Attanasio	Senior Executive Vice-President and Chief Risk Officer	Toronto, Ontario, Canada
Kevin Glass	Senior Executive Vice-President and Chief Financial Officer	Toronto, Ontario, Canada
Jon Hountalas	Senior Executive Vice-President and Group Head, Commercial Banking and Wealth Management, Canada	Toronto, Ontario, Canada
Deepak Khandelwal	Senior Executive Vice-President and Group Head, Client Connectivity and Innovation	Toronto, Ontario, Canada
Christina Kramer	Senior Executive Vice-President and Group Head, Personal and Small Business Banking, Canada	Toronto, Ontario, Canada
Kevin Patterson	Senior Executive Vice-President and Group Head, Technology and Operations	Niagara-on-the-Lake, Ontario, Canada
Larry Richman	Senior Executive Vice-President and Group Head, CIBC US Region, and President and CEO, CIBC Bank USA	Chicago, Illinois, U.S.
Sandy Sharman	Senior Executive Vice-President and Chief Human Resources and Communications Officer	Burlington, Ontario, Canada

All of the executive officers have held their present position or another executive position in CIBC for more than five years except for Sandy Sharman who was Senior Vice-President and U.S. Head of Human Resources from 2011 to 2013 at the Toronto-Dominion Bank, Deepak Khandelwal who was at Rogers Communications Inc. from 2014 to 2017 where he was Chief Customer Officer and prior to that was at Google Inc. from 2010 to 2014 where he held a series of senior positions and was last VP, Global Customer Experience, and Larry Richman who was at The PrivateBank from 2007 to 2017, where he was President and CEO.

Shareholdings of Directors and Executive Officers

To CIBC's knowledge, as at October 31, 2017, the directors and executive officers of CIBC as a group, beneficially owned, directly or indirectly, or exercised control or direction over less than 1% of the outstanding common shares of CIBC and FirstCaribbean International Bank Limited.

Corporate Cease Trade Orders or Bankruptcies

Except as set out below, to CIBC's knowledge, in the last ten years, no director or executive officer of CIBC is or has been a director, chief executive officer or chief financial officer of a company that, (i) while that person was acting in that capacity, was the subject of a cease trade or similar order or an order that denied the company access to any exemption under securities legislation, for a period of more than 30 consecutive days or (ii) was subject to such an order that was issued, after that person ceased to be a director or chief executive officer or chief financial officer, and which resulted from an event that occurred while that person was acting in the capacity as director, chief executive officer or chief financial officer. Except as set out below, to CIBC's knowledge, in the last ten years, no director or executive officer of CIBC is or has been a director or executive officer of a company that, while that person was acting in that capacity or within a year of that person ceasing to act in that capacity, became bankrupt, made a proposal under any legislation relating to bankruptcy or insolvency or was subject to or instituted any proceedings, arrangement or compromise with creditors or had a receiver, receiver manager or trustee appointed to hold its assets.

- Mr. John P. Manley, a director of CIBC, was a director of Nortel Networks Corporation and Nortel Networks Limited (collectively the Nortel Companies) when the Nortel Companies and certain other Canadian subsidiaries initiated creditor protection proceedings under the Companies' Creditors Arrangement Act (CCAA) in Canada on January 14, 2009. Certain U.S. subsidiaries filed voluntary petitions in the United States under Chapter 11 of the U.S. Bankruptcy Code, and certain Europe, Middle East and Africa subsidiaries made consequential filings in Europe and the Middle East. These proceedings are ongoing. Mr. Manley resigned as a director of the Nortel Companies on August 10, 2009.

Penalties or Sanctions

To CIBC's knowledge, no director or executive officer of CIBC: (i) has been subject to any penalties or sanctions imposed by a court relating to securities legislation or by a securities regulatory authority or has entered into a settlement agreement with a securities regulatory authority, or (ii) has been subject to any other penalties or sanctions imposed by a court or regulatory body that would likely be considered important to a reasonable investor in making an investment decision.

Personal Bankruptcies

To CIBC's knowledge, in the last ten years, no director or executive officer has become bankrupt, made a proposal under any legislation relating to bankruptcy or insolvency, or was subject to or instituted any proceedings, arrangement or compromise with creditors, or had a receiver, receiver manager or trustee appointed to hold the assets of the director or executive officer.

Conflicts of Interest

To CIBC's knowledge, no director or executive officer of CIBC or its subsidiaries has an existing or potential material conflict of interest with CIBC or any of its subsidiaries.

LEGAL PROCEEDINGS AND REGULATORY ACTIONS

A description of legal proceedings to which CIBC is a party is provided under the heading "Contingent liabilities and provision" on pages 158 to 160 of the 2017 AR.

INTEREST OF MANAGEMENT AND OTHERS IN MATERIAL TRANSACTIONS

To CIBC's knowledge, no director or executive officer of CIBC, or any of their associates has any material interest, directly or indirectly, in any transaction within the three most recently completed financial years that has materially affected or is reasonably expected to materially affect CIBC.

TRANSFER AGENT AND REGISTRAR

The addresses for CIBC's transfer agent and registrar are provided on page 184 of the 2017 AR.

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EXPERTS

Ernst & Young LLP, Chartered Professional Accountants, Licensed Public Accountants, Toronto, Ontario, is the external auditor who prepared the Independent auditors' reports of registered public accounting firm to shareholders in accordance with Canadian generally accepted auditing standards and the standards of the Public Company Accounting Oversight Board (United States) (PCAOB) – which includes the reports on CIBC's consolidated financial statements and internal control over financial reporting. Ernst & Young LLP is independent with respect to CIBC within the meaning of the Rules of Professional Conduct of the Chartered Professional Accountants of Ontario, and is an independent registered public accounting firm with respect to CIBC within the meaning of the Securities Act of 1933, as amended, and the applicable rules and regulations thereunder adopted by the U.S. Securities and Exchange Commission (SEC) and the PCAOB.

AUDIT COMMITTEE

The Audit Committee Mandate as approved by the Board is included in Appendix B. The members of the Audit Committee are listed below. Each member of the Audit Committee is independent and financially literate as defined by Canadian securities laws. At least one member of the Audit Committee has been designated by the Board as an "audit committee financial expert" as defined by the rules of the SEC.

Education and Experience

This section describes the education and experience of CIBC's Audit Committee members that is relevant to the performance of their responsibilities.

Each member of the Audit Committee currently is, or has previously been, in charge of, or an advisor or a consultant to, a significant business operation, often as president, chief executive officer, chief financial officer or chief operating officer of a large public company. Given the breadth and complexity of a financial institution's accounting issues, the Audit Committee members participate from time-to-time in internal or external sessions related to accounting matters or developments. Travel and attendance costs are paid by CIBC. Further detail on the education and experience of each Audit Committee member is set out below.

Gary F. Colter
Mr. Colter is President of CRS Inc., a corporate restructuring and strategy management consulting company. Before establishing CRS Inc., Mr. Colter had over 34 years of executive experience (27 years as a partner) at KPMG Canada, during which he developed financial and accounting expertise while overseeing the Canadian and global financial advisory services practices of KPMG. He served as Vice Chairman of KPMG Canada from 2001 to 2002, was Managing Partner of Global Financial Advisory Services, KPMG International from 1998 to 2000 and was Vice Chairman of Financial Advisory Services, KPMG Canada from 1989 to 1998. Mr. Colter is a director and member of the Audit Committee of Revera Inc. and a director and member of the Audit Committee of Core-Mark Holding Company Inc. Mr. Colter holds a Bachelor of Arts (Honours) degree from the University of Western Ontario, Ivey School of Business and is a Fellow Chartered Accountant.

Luc Desjardins
Mr. Desjardins has been President and Chief Executive Officer and a member of the Board of Directors of Superior Plus Corp. since 2011. From 2008 to 2011, he was a partner at The Sterling Group, LP, a private equity firm. From 2000 to 2008, Mr. Desjardins was with Transcontinental Inc. first as the President and Chief Operating Officer and subsequently as the President and Chief Executive Officer. For the preceding 10 years, Mr. Desjardins held chief executive officer roles at other companies: Mail-Well Inc. from 1998 to 2000; and Supremex Inc. from 1992 to 1998. Mr. Desjardins is a director of Gestion Jourdan SEC and a member of the World Presidents' Organization. In 2005, Mr. Desjardins received a "Nouveaux Performants Award" granted to successful executives who excel in management practices. Mr. Desjardins holds a Master of Business Administration degree from Université du Québec à Montréal and is a graduate of the Harvard Business School Management Development Program.

Kevin J. Kelly
Mr. Kelly was Lead Director of the Ontario Securities Commission from 2010 to 2012 and Commissioner from 2006 to 2010. Prior to joining the Ontario Securities Commission, Mr. Kelly held progressive roles in wealth and asset management in Canada and the U.S. He was Co-Chief Executive Officer of Wellington West Capital, Inc. from 2004 to 2005. For the preceding 15 years, Mr. Kelly held president and chief executive officer roles at other companies: FMR LLC from 1996 to 2003; Bimcor Inc. from 1992 to 1996; and Investment Corporation of Saskatchewan from 1990 to 1992. He also held the role of President and Chief Operating Officer of Midland Capital Corporation from 1989 to 1990. Mr. Kelly holds a Bachelor of Commerce degree from Dalhousie University.

Christine E. Larsen
Ms. Larsen has been Executive Vice-President, Chief Operations Officer of First Data Corporation since 2013. Prior to joining First Data Corporation, she held progressive roles in the financial services industry. At JPMorgan Chase & Co. she was the Executive Vice-President, Head of Process Improvement from 2012 to 2013; Head of Mortgage Servicing from 2011 to 2012; Chief Operating Officer, Treasury and Securities Services from 2009 to 2011; and Head of Shared Operations and Technology from 2006 to 2009. At Citigroup, Inc. she was the Managing Director, Co-Head of Global Operations and Head of Global Transactions Services from 1994 to 2006. From 1984 to 1994 she led projects for Accenture with financial services companies. She is a member of the Board of Trustees of Syracuse University and was named one of the Most Influential Women in Payments for 2015. Ms. Larsen holds a Master of Library Science degree from Syracuse University (University Fellow) and a Bachelor of Arts (Magna Cum Laude) degree from Cornell College.

Jane L. Peverett, FCMA, ICD.D *(Chair of the Audit Committee)*
Ms. Peverett was President and Chief Executive Officer of British Columbia Transmission Corporation (BCTC) from 2005 to 2009 and Chief Financial Officer of BCTC from 2003 to 2005. Prior to joining BCTC, Ms. Peverett was with Westcoast Energy Inc., from 1988 to 2003, where she held progressively senior finance, regulatory and executive roles. From 2001 to 2003 Ms. Peverett was President & CEO of Union Gas Limited, a subsidiary of Westcoast Energy Inc. Ms. Peverett is a director and Chair of the Audit Committee of CP Rail, a director of Hydro One Inc. and Northwest Natural Gas Company. She is a Certified Management Accountant and a Fellow of the Society of Management Accountants and a member of the Institute of Corporate Directors with the designation ICD.D. Ms. Peverett holds a Bachelor of Commerce degree from McMaster University and a Master of Business Administration degree from Queen's University.

PRE-APPROVAL POLICIES AND PROCEDURES

The Audit Committee has adopted the CIBC Policy on the Scope of Services of the Shareholders' Auditors (the "Scope of Services Policy") to provide a consistent approach for the engagement of the shareholders' auditors. The Scope of Services Policy requires that work performed by the shareholders' auditors for CIBC or its subsidiaries be pre-approved by the Audit Committee, along with the related fee for that work. The Audit Committee may establish pre-approval policies and procedures that are specific to a particular service. Under the Scope of Services Policy, the shareholders' auditors will only perform audit, audit-related and tax work, and other work if pre-approved by the Audit Committee. The Audit Committee may approve exceptions to the Scope of Services Policy if it determines that such an exception is in the overriding best interests of CIBC, and the exception does not impair the independence of the shareholders' auditors. However, certain non-audit activities set out in the Scope of Services Policy are generally prohibited and will not be considered for exception from the Policy. On a quarterly basis, the Audit Committee is presented with a summary report of all engagements of the shareholders' auditors that are currently underway or have been completed since the prior quarter's report, including engagements entered into pursuant to pre-approved quarterly limits. The summary report will describe the nature of each engagement, confirm that each engagement is in compliance with the Scope of Services Policy and state the fees received by the shareholders' auditors for each engagement. The Scope of Services Policy also sets out ongoing relationship standards and requires that the shareholders' auditors annually certify compliance with the Policy.

FEES FOR SERVICES PROVIDED BY SHAREHOLDERS' AUDITORS

The information on professional service fees paid to the Shareholders' Auditors is provided on page 93 of the 2017 AR.

ADDITIONAL INFORMATION

Additional information with respect to CIBC, including directors' and officers' remuneration and indebtedness, principal holders of CIBC's securities and securities authorized for issuance under equity compensation plans, where applicable, is contained in CIBC's management proxy circular for its most recent annual meeting of shareholders that included in its proceedings the election of directors. Additional financial information is provided in the 2017 AR. These documents, as well as additional information relating to CIBC, are available on SEDAR at www.sedar.com.

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Appendix A
Rating Definitions

DBRS

Short-term debt — **Rating: R-1 (high)**
Short-term debt ratings deal with the risk that an issuer will not be able to meet its short-term financial obligations in a timely manner. Short-term debt rated R-1 (high) is of the highest credit quality, indicative of an entity with an exceptionally high capacity to repay its short-term financial obligations. R-1 is the highest of six short-term debt rating categories. The R-1 and R-2 categories are further denoted with "high", "middle" and "low" subcategories.

Senior debt — **Rating: AA**
Subordinated indebtedness — **Rating: AA (low)**
Senior debt ratings provide an assessment of the risk that an issuer will not be able to meet its financial obligations under its long-term debt obligations. Senior debt rated AA is ranked in the second highest of ten categories. It is considered to be of superior credit quality, with capacity for payment considered to be high. The credit quality of obligations rated AA differs from the highest AAA category only to a small degree, and is unlikely to be significantly susceptible to future events. The AA category is further denoted by the subcategories "high" and "low". The absence of a "high" or "low" indicates a rating in the middle of the category.

Subordinated indebtedness – NVCC — **Rating: A (low)**
Long-term debt ratings provide an assessment of the risk that an issuer will not be able to meet its financial obligations under its long-term debt obligations. Long-term debt rated A is ranked in the third highest of ten categories. It is considered to be of good credit quality, with substantial capacity for payment. The A category is further denoted by the subcategories "high" and "low". The absence of a "high" or "low" indicates a rating in the middle of the category.

Preferred shares – NVCC — **Rating: Pfd-2**
Preferred share ratings provide an assessment of the risk that an issuer will not be able to meet its dividend and principal obligations in a timely manner. Preferred shares rated Pfd-2 are of satisfactory credit quality with substantial protection of dividends and principal. A Pfd-2 rating is the second highest of six categories for preferred shares. Each category is further denoted by the subcategories "high" and "low". The absence of a "high" or "low" indicates a rating in the middle of the category.

Fitch

Short-term debt — **Rating: F1+**
The F1 category is for obligations of the highest short-term credit quality and indicates the strongest intrinsic capacity for timely payment of financial commitments. The F1 rating is the highest of seven categories used for short-term debt; a "+" may be added to indicate an exceptionally strong credit feature.

Senior debt — **Rating: AA-**
AA is the second highest of eleven ratings categories for long-term obligations and indicates an assessment of very high credit quality and very low default risk. This rating indicates a very strong capacity for payment of financial commitments that is not significantly susceptible to foreseeable events.

Subordinated indebtedness — **Rating: A+**
Subordinated indebtedness – NVCC
The A category is the third highest of the rating categories for long-term obligations and indicates an assessment of high credit quality and low default risk. The capacity for payment is considered strong, but may be more susceptible to adverse business or economic conditions than that of higher rating categories.

(The designation "+" or "-" may be used to denote relative position within certain major long-term rating categories, while the absence of such a modifier indicates a rating in the middle of the category.)

Moody's

Short-term debt — **Rating: P-1**
Short-term debt ratings are assessments of an issuer's ability to repay obligations with an original maturity of 13 months or less. Moody's has four categories of short-term ratings with the P-1 category being the highest credit quality. Borrowers rated P-1 have a superior ability to repay short-term debt obligations.

Senior debt — **Rating: A1**
Senior debt ratings assess both the likelihood of default on contractual payments and the expected loss in the event of default on obligations with an original maturity of 1 year or more. The A rating category is the third highest of nine categories and includes obligations judged to be upper-medium grade and subject to low credit risk.

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Subordinated indebtedness **Rating: Baa1**
The Baa rating category is the fourth highest of nine categories on the long-term rating scale and includes obligations judged to be medium grade and subject to moderate credit risk and as such may possess certain speculative characteristics.

Subordinated indebtedness – NVCC **Rating: Baa2**
Preferred shares – NVCC **Rating: Baa3**
The Baa rating is the fourth highest of nine categories used by Moody's. Instruments carrying this rating are considered to be subject to moderate credit risk and to be medium grade obligations that may have certain speculative attributes.

(The modifiers 1, 2 and 3 are used with certain long-term rating categories to indicate that an obligation ranks in the higher, middle or lower range of the rating category respectively.)

S&P

Short-term debt **Rating: A-1**
The A-1 category is the highest of six categories used by S&P for short-term debt. An obligation ratedA-1 indicates that the borrower's capacity to meet its financial commitment with respect to the obligation is strong.

Senior debt **Rating: A+**
The A rating category is the third highest of ten categories used by S&P for long-term debt obligations. Although the obligor's ability to meet its financial commitment is strong, obligations rated A are somewhat more vulnerable to the negative effects of changes in circumstances and economic conditions when compared to obligations in higher rating categories. A "+" or "-" may be used to denote the relative standing of a rating within the category.

Subordinated indebtedness **Rating: BBB+**
Subordinated indebtedness – NVCC **Rating: BBB**
The BBB rating category is the fourth highest of ten categories used by S&P for long-term debt obligations. The obligor's ability to meet its financial commitment is adequate, however, negative economic conditions or change in circumstances are more likely to lead to a weakening of this capacity. A "+" or "-" may be used to denote the relative standing of a rating within the category.

Preferred shares – NVCC **(Canadian Preferred Share Scale) Rating:P-3 (high)**
P-3 is the third highest of the eight categories used by S&P in its Canadian Preferred Share Scale, which is used to rate an issuer's creditworthiness with respect to a specific preferred share obligation issued in Canada. A "High" or "Low" modifier may be used to indicate the relative standing of a credit within a particular rating category, while the absence of such a modifier indicates a rating in the middle of the category.

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Appendix B
Canadian Imperial Bank of Commerce
Audit Committee Mandate

1. PURPOSE

(1) The primary functions of the Audit Committee are to: fulfill its responsibilities for reviewing the integrity of CIBC's financial statements, related management's discussion and analysis (MD&A) and internal control over financial reporting; monitor the system of internal control; monitor CIBC's compliance with legal and regulatory requirements as they pertain to responsibilities under this mandate; select the external auditors for shareholder approval; review the qualifications, independence and performance of the external auditors; review the qualifications, independence and performance of CIBC's internal auditors; and act as the Audit Committee for certain federally regulated subsidiaries.

2. MEMBERSHIP AND ORGANIZATIONS

(1) **Composition** — The Audit Committee shall consist of not less than three or more than six independent members of the Board.

(2) **Appointment and Removal of Audit Committee Members** — Each member of the Audit Committee shall be appointed by the Board on an annual basis and shall serve at the pleasure of the Board, or until the earlier of: (i) the close of the next annual meeting of shareholders of CIBC at which the member's term of office expires; (ii) the death of the member; or (iii) the resignation, disqualification or removal of the member from the Audit Committee or from the Board. The Board may fill a vacancy in the membership of the Audit Committee.

(3) **Chair** — At the time of the annual appointment of the members of the Audit Committee, the Board shall appoint a Chair of the Audit Committee. The Chair shall: (i) be a member of the Audit Committee; (ii) preside over all Audit Committee meetings; (iii) coordinate the Audit Committee's compliance with this mandate; (iv) work with management to develop the Audit Committee's annual workplan and meeting agendas; and (v) provide reports on the work of the Audit Committee to the Board. The Chair may vote on any matter requiring a vote and shall not provide a second vote in the case of a tie vote.

(4) **Independence** — Each member of the Audit Committee shall meet the independence standards established by the Board.

(5) **Financial Literacy** — Members of the Audit Committee shall be financially literate or agree to become financially literate within a reasonable period of time following the member's appointment. An individual is financially literate if he or she has the ability to read and understand a set of financial statements that present a breadth and level of complexity of accounting issues that are generally comparable to the breadth and complexity of the issues that can reasonably be expected to be raised in CIBC's financial statements. In addition, at least one member of the Audit Committee must be considered an "audit-committee expert" in accordance with Section 407 of the Sarbanes-Oxley Act.

(6) **Service on Multiple Audit Committees** — No member of the Audit Committee may serve on the audit committees of more than two other public companies, unless the Board determines that this simultaneous service would not impair the ability of the member to effectively serve on the Audit Committee.

3. MEETINGS

(1) **Meetings** — The members of the Audit Committee shall hold meetings as are required to carry out this mandate, and in any case no less than four meetings annually. The external auditors are entitled to attend and be heard at each Audit Committee meeting. The Chair, any member of the Audit Committee, the external auditors, the Chief Auditor, the Chair of the Board, the Chief Executive Officer or the Chief Financial Officer may call a meeting of the Audit Committee by notifying the Corporate Secretary of CIBC who will notify the members of the Audit Committee. The Chair shall chair all Audit Committee meetings that he or she attends, and in the absence of the Chair, the members of the Audit Committee present may appoint a Chair from their number for a meeting. At the invitation of the Audit Committee, members of CIBC's management and others may attend Audit Committee meetings, as the Audit Committee considers necessary or desirable.

(2) **Notices of Meetings** — Notices of Audit Committee meetings may be provided by prepaid mail, personal delivery, facsimile, electronic-mail or telephone, provided that the method of notification chosen shall be capable of being received by members of the Audit Committee and the external auditors at least 24 hours before an Audit Committee meeting at the member's contact information last recorded with the Corporate Secretary. Any member of the Audit Committee may in any manner waive notice of an Audit Committee meeting and attendance at an Audit Committee meeting is waiver of notice of the meeting, except where a member attends for the express purpose of objecting to the transaction of any business on the grounds that the meeting is not properly called.

(3) **Secretary and Minutes** — The Corporate Secretary, his or her designate or any other person the Audit Committee requests, shall act as secretary at Audit Committee meetings. Minutes of Audit Committee meetings shall be recorded and maintained by the Corporate Secretary and subsequently presented to the Audit Committee for approval.

(4) **Quorum** — A majority of the members of the Audit Committee shall constitute a quorum. If a quorum cannot be obtained for an Audit Committee meeting, members of the Board who would qualify as members of the Audit Committee may, at the request of the Chair or the Chair of the Board, serve as members of the Audit Committee for that meeting.

(5) **Access to Management and Outside Advisors**— The Audit Committee shall have unrestricted access to management, employees and the external auditors of CIBC. The Audit Committee shall dedicate a portion of regularly scheduled meetings to meet separately with the Chief Auditor, the Chief Financial Officer, and the external auditors. The Audit Committee shall have the authority to retain and terminate external legal counsel, consultants or other advisors to assist it in fulfilling its responsibilities and to set and pay the compensation for these advisors without consulting or obtaining the approval of the Board or any officer of CIBC. CIBC shall provide appropriate funding, as determined by the Audit Committee, for the services of these advisors.

(6) **Meetings Without Management** — The Audit Committee shall hold unscheduled or regularly scheduled meetings, or portions of regularly scheduled meetings, at which management is not present.

(7) **Access to Other Committees** — The Chair or any member of the Audit Committee may request the input of another Board committee on any accountability or responsibility set out in this mandate.

4. ACCOUNTABILITIES AND RESPONSIBILITIES

The Audit Committee shall have the accountabilities and responsibilities set out below as well as any other matters that are specifically delegated to the Audit Committee by the Board. In addition to these accountabilities and responsibilities, the Audit Committee shall perform the duties required of an audit committee by the *Bank Act* (Canada), requirements of the stock exchanges on which the securities of CIBC are listed and all other applicable laws.

(1) **Financial Reporting**

(a) **General** — The Audit Committee is responsible for reviewing the integrity of CIBC's financial statements and financial disclosures. Management is responsible for the preparation, presentation and integrity of CIBC's financial statements and financial disclosures and for the appropriateness of the accounting principles and the reporting policies used by CIBC and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error. The external auditors are responsible for auditing CIBC's annual consolidated financial statements and for reviewing CIBC's unaudited interim consolidated financial statements in accordance with standards issued by the Canadian Auditing and Assurance Standards Board and with the standards issued by the Public Company Accounting Oversight Board (United States) (PCAOB). The external auditors are also responsible for auditing CIBC's internal control over financial reporting in accordance with the standards issued by the PCAOB.

(b) **Review of Annual Financial Reports**— The Audit Committee shall review the annual consolidated audited financial statements of CIBC, the related MD&A and the external auditors' report on the consolidated financial statements. The review shall include assessing whether the financial statements, present fairly, in all material respects in accordance with International Financial Reporting Standards (IFRS), the financial condition, results of operations and cash flows of CIBC. After completing its review, if advisable, the Audit Committee shall recommend for Board approval the annual financial statements and the related MD&A.

(c) **Review of Interim Financial Reports**— The Audit Committee shall review the interim consolidated financial statements of CIBC, the related MD&A and the external auditors' review report on the interim consolidated financial statements. The review shall include assessing whether the financial statements, present fairly, in all material respects in accordance with IFRS, the financial condition, results of operations and cash flows of CIBC. After completing its review, if advisable, the Audit Committee shall recommend for Board approval the interim financial statements and the related MD&A.

(d) **Review Considerations**— In conducting its review of the annual consolidated financial statements or the interim financial statements, and the related MD&A, the Audit Committee shall:

(i) meet with management and the external auditors to discuss the financial statements and MD&A;
(ii) review the disclosures in the financial statements and the MD&A;
(iii) review the reports prepared by the external auditors for the Audit Committee summarizing their key findings and required communications in respect of the annual audit and the interim reviews;
(iv) discuss with management, the external auditors and internal legal counsel, as requested, any litigation claim or other contingency that could have a material effect on the financial statements;
(v) review key areas of risk for material misstatement of the financial statements including critical accounting policies, models and estimates and other areas of measurement uncertainty or judgment underlying the financial statements and the MD&A as presented by management;
(vi) review areas of significant auditor judgment as it relates to their evaluation of accounting policies, accounting estimates and financial statement disclosures; discuss and review estimates with management and the external auditor, whether the external auditor considers estimates/models to be "aggressive" or "conservative" within an acceptable range, the rationale for the final valuation decision and whether it is consistent with industry practice;

(vii) review any material effects of regulatory and accounting changes, significant or unusual transactions, and the impact of material subsequent events between the reporting date and the approval date on the financial statements and the MD&A as presented by management;
(viii) review management's and the external auditors' reports on the effectiveness of internal control over financial reporting;
(ix) review correspondence between the external auditor and management related to any substantive matters in the external auditors' findings and any difficult or contentious matters noted by the external auditor;
(x) review results of CIBC's whistleblowing program; and
(xi) review any other matters, related to the financial statements and the MD&A, that are brought forward by the internal auditors, external auditors, management or which are required to be communicated to the Audit Committee under auditing standards or applicable regulations and law.

(e) **Approval of Other Disclosures** — The Audit Committee shall review and, if advisable, approve or recommend for Board approval: (i) the Annual Information Form of CIBC; (ii) the Form 40-F of CIBC; (iii) financial disclosure in a news release disclosing financial results and (iv) any other material financial disclosure.

(2) **External Auditors**

General — The Audit Committee shall be responsible for oversight of the work of the external auditors in auditing and reviewing CIBC's financial statements and internal controls over financial reporting including the resolution of disagreements between management and the external auditors regarding financial reporting.

(a) **Appointment and Compensation** — The Audit Committee shall review and, if advisable, select and recommend: (i) for shareholder approval, the appointment of the external auditors; and (ii) for shareholder or Board approval, as applicable, the compensation of the external auditors.

(b) The Audit Committee shall satisfy itself that the level of the audit fees is commensurate with the scope of work undertaken and conducive to a quality audit. The Audit Committee shall also assess whether any proposed change to the external auditor's materiality level and/or scope continues to ensure a quality audit.

(c) **Annual Review Report** — At least annually, the Audit Committee shall obtain and review a report by the external auditors describing: (i) their internal quality–control procedures; and (ii) any material issues raised by their most recent internal quality-control review, peer review or by any inquiry or investigation by governmental or professional authorities within the preceding five years respecting one or more independent audits carried out by the external auditors and any steps taken to deal with any of these issues. The Audit Committee shall also review additional reports or communications of the external auditors as required by the Canadian Public Accountability Board, Office of the Superintendent of Financial Institutions, and the U.S. Public Company Accounting Oversight Board.

(d) **Audit Plan** — At least annually, and as required, the Audit Committee shall review and approve the external auditors' scope, terms of engagement and annual audit plan to ensure that it is appropriate and risk based. The Audit Committee shall consider and review with the external auditors any material changes to the scope of the plan and that the work of the internal and external auditors is coordinated.

(e) **Independence of External Auditors** — At least annually, and before the external auditors issue their report on the annual financial statements, the Audit Committee shall: obtain from the external auditors a formal written statement describing all relationships between the external auditors and CIBC; discuss with the external auditors any disclosed relationships or services that may affect the objectivity and independence of the external auditors; and obtain written confirmation from the external auditors that they are independent within the meaning of the Rules of Professional Conduct/Code of Ethics adopted by the provincial institute or order of chartered accountants to which they belong and within the meaning of United States federal securities laws and the rules and regulations thereunder, including the independence rules adopted by the Securities and Exchange Commission, and the Public Company Accounting Oversight Board. The Audit Committee shall also ensure that any concern raised by regulators or other stakeholders about the external auditors independence are appropriately reviewed and addressed.

(f) **Evaluation of External Auditors and of Lead Partner** — At least annually, the Audit Committee shall assess the qualifications and performance of the external auditors and the lead partner and report on the overall effectiveness of the external auditors to the Board, considering factors such as:

(i) the external auditor's independence, objectivity, and professional skepticism;
(ii) the quality of the engagement team;
(iii) the quality of communications and interactions with the external auditor; and
(iv) the quality of service provided by the external auditor.

The Audit Committee shall conduct a periodic comprehensive review of the external auditor at least every five years, for which the Audit Committee may consider engaging an independent third party to perform parts of the review and to report their findings to the Audit Committee.

(g) **Rotation of Lead Partner** — The Audit Committee shall obtain a report from the external auditors annually confirming that they are in compliance with all legal, regulatory and professional requirements relating to partner rotation and that the engagement team collectively possesses the experience and competence to perform an appropriate audit.

(h) **Pre-Approval of Audit and Non-Audit Services** — The Audit Committee shall pre-approve any retainer of the external auditors for any audit and non-audit service to CIBC or its subsidiaries in accordance with applicable law and Board approved policies and procedures. The Chair of the Audit Committee may delegate pre-approval authority to a member of the Audit Committee. The Audit Committee may also establish pre-approval policies and procedures that are specific to a particular service and shall review these policies or procedures annually to verify they continue to be appropriate. The decisions of any member of the Audit Committee to whom this authority has been delegated, as well as any pre-approvals of a particular service must be presented to the full Audit Committee for ratification at its next scheduled Audit Committee meeting.

(i) **Hiring Practices** — The Audit Committee shall review and approve guidelines regarding the hiring of employees or former employees of the external auditors or former external auditors.

(3) **Internal Audit Function**

The Audit Committee has the ultimate responsibility for the internal audit function and oversees its performance.

(a) **Organizational Framework** — At least annually, the Audit Committee shall review and approve the Internal Audit organizational framework and charter (developed in accordance with professional standards promulgated by the Institute of Internal Auditors), having regard to its role as an independent control function.

(b) **Chief Auditor** — The Chief Auditor will have unfettered access to the Audit Committee. The Chief Auditor will be accountable to both the Chief Executive Officer and the Audit Committee. Further, the Audit Committee shall review and, if advisable, approve the appointment, reappointment or removal of the Chief Auditor. At least annually, the Audit Committee shall review the goals and review and approve the mandate of the Chief Auditor and review an assessment of the effectiveness and performance of the Chief Auditor.

(c) **Effectiveness Review** — At least annually, the Audit Committee shall:

(i) review the Internal Audit function's financial plan and staff resources and recommend for Board approval;
(ii) review management's assessment of the independence and effectiveness of the Internal Audit function;
(iii) review any difficulties encountered by the Chief Auditor in the course of internal audits, including any restrictions on the scope of internal audit work or access to required information; and
(iv) review the compliance of Internal Audit with professional standards promulgated by the Institute of Internal Auditors.

On a periodic basis, the Audit Committee shall engage an independent third party to assess the Internal Audit function in accordance with professional standards promulgated by the Institute of Internal Auditors and in the context of regulatory expectations and practices of leading institutions. The Audit Committee shall review the results of that assessment.

(d) **Audit Plan** — The Audit Committee shall review and approve the annual audit plan including the audit scope and the overall risk assessment methodology presented by the Chief Auditor to ensure that it is appropriate, risk based and addresses all relevant activities over a measureable cycle. On a quarterly basis, the Audit Committee shall review with the Chief Auditor the status of the audit plan and any changes needed, including a review of:

(i) the results of audit activities, including any significant issues reported to management and management's response and/or corrective actions;
(ii) the status of identified control weaknesses; and
(iii) the overall design and operating effectiveness of internal control, risk management and governance systems and processes.

The Audit Committee shall review an annual report from the Chief Auditor with Internal Audit's assessment of CIBC's risk governance framework and a holistic view of the oversight by Finance, Risk Management and Compliance.

(e) **Succession Planning** — At least annually, the Audit Committee shall review succession plans for the Chief Auditor.

(4) **Finance Function**

(a) **Organizational Framework** — At least annually, the Audit Committee shall review and approve the Finance organizational framework, having regard to its role as an independent control function.

(b) **Chief Financial Officer** — The Chief Financial Officer will have unfettered access to the Audit Committee. The Chief Financial Officer will be accountable to both the Chief Executive Officer and the Audit Committee. Further, the Audit Committee shall review and, if advisable, approve the appointment or removal of the Chief Financial Officer. At least annually, the Audit Committee shall review the goals and review and approve the mandate of the Chief Financial Officer and review an assessment of the effectiveness of the Chief Financial Officer.

(c) **Effectiveness Review** — At least annually, the Audit Committee shall:

(i) review the Finance function's financial plan and staff resources and recommend for Board approval; and
(ii) review management's assessment of the effectiveness of the Finance function.

On a periodic basis, the Audit Committee shall engage an independent third party to assess the Finance function and the Audit Committee shall review the results of that assessment.

(d) **Succession Planning** — At least annually, the Audit Committee shall review succession plans for the Chief Financial Officer.

(5) **Internal Controls**

(a) **General** — The Audit Committee shall monitor the system of internal control and ensure that senior management establishes and maintains adequate and effective internal control system and processes.

(b) **Establishment, Review and Approval** — The Audit Committee shall require management to implement and maintain appropriate policies and systems of internal control in accordance with applicable laws, regulations and guidance, including internal control over financial reporting and disclosure and to review, evaluate and approve these procedures. The Audit Committee shall review management's annual report on internal control over financial reporting and the external auditors' report on internal controls over financial reporting. As part of this review at least annually, the Audit Committee shall consider and review the following with management, the external auditors and the Chief Auditor:

(i) the effectiveness of, or weaknesses or deficiencies in: the design or operation of CIBC's internal controls; the overall control environment for managing business risks; and accounting, financial and disclosure controls (including, without limitation, controls over financial reporting), operational controls, and legal and regulatory controls and the impact of any identified weaknesses in internal controls on management's conclusions;
(ii) any significant changes in internal control over financial reporting that are disclosed, or considered for disclosure, including those in CIBC's periodic regulatory filings;
(iii) any material issues raised by any inquiry or investigation by CIBC's regulators as they pertain to responsibilities under this mandate;
(iv) CIBC's fraud prevention and detection program, including deficiencies in internal controls that may impact the integrity of financial information, or may expose CIBC to other significant internal or external fraud losses and the extent of those losses and any disciplinary action in respect of fraud taken against management or other employees who have a significant role in financial reporting;
(v) any related significant issues and recommendations of the external auditors and internal auditors together with management's responses thereto, including the timetable for implementation of recommendations to correct weaknesses including those relating to internal controls over financial reporting and disclosure controls; and
(vi) consideration of matters that may be jointly addressed with other Committees of the Board.

(6) **Certain Federally Regulated Subsidiaries** — The Audit Committee shall be the audit committee for certain federally regulated subsidiaries of CIBC, as determined by the Audit Committee from time to time, that require an audit committee under applicable law. In meeting its Audit Committee responsibilities with respect to these subsidiaries, the Audit Committee shall:

(a) review the annual financial statements of the subsidiary prior to approval by its board of directors;

(b) require management of the subsidiary to implement and maintain appropriate internal controls over financial reporting and financial disclosure controls and procedures and approve, review and evaluate these procedures;

(c) review the effectiveness of the subsidiary's internal control over financial reporting and financial disclosure, including computerized information system controls and security, the overall control environment and accounting and financial controls (including, without limitation, controls over financial reporting), and the impact of any identified weaknesses in internal control over financial reporting on management's conclusions with respect to their effectiveness;

(d) review any related significant issues and recommendations of the external and internal auditors together with management's responses thereto, including the timetable for implementation of recommendations to correct weaknesses in internal controls;

(e) review investments and transactions that could adversely affect the wellbeing of the subsidiary; and

(f) meet with the external auditors of the subsidiary to discuss the annual financial statements and transactions of such subsidiary, if applicable.

(7) **Regulatory Reports and Returns** — The Audit Committee shall provide or review, as applicable, all reports and returns required of the Audit Committee under applicable law.

(8) **Compliance with Legal and Regulatory Requirements** — The Audit Committee shall review reports from management, the external auditor and the Chief Auditor on the assessment of compliance with laws, regulations and regulatory requirements as they pertain to responsibilities under this mandate, and management's plans to remediate any deficiencies identified. The Audit Committee shall report any material findings to the Board and recommend changes it considers appropriate.

(9) **Whistleblowing Procedures** — The Audit Committee shall ensure that procedures are established for the receipt, retention and treatment of complaints received by CIBC from employees or others, confidentially and anonymously, regarding accounting, internal accounting controls, or auditing matters. The Audit Committee shall review management reports on the procedures.

(10) **Adverse Investments and Transactions** — The Audit Committee shall review any investments and transactions that could adversely affect the well-being of CIBC.

(11) **Audit Committee Disclosure** — The Audit Committee shall review and approve any audit committee disclosures required by securities regulators in CIBC's disclosure documents.

(12) **Delegation** — The Audit Committee may designate a sub-committee to review any matter within this mandate as the Audit Committee deems appropriate.

5. REPORTING TO THE BOARD

(1) The Chair shall report to the Board, as required by applicable law or as deemed necessary by the Audit Committee or as requested by the Board, on matters arising at Audit Committee meetings and, where applicable, shall present the Audit Committee's recommendation to the Board for its approval.

6. COMMITTEE MEMBER DEVELOPMENT AND PERFORMANCE REVIEW

(1) The Chair shall co-ordinate orientation and continuing director development programs relating to this mandate for Audit Committee members.

(2) At least annually, the Audit Committee shall evaluate and review the performance of the Audit Committee and each of its members and the adequacy of this mandate. This review will be undertaken in consultation with the Corporate Governance Committee of the Board.

7. CURRENCY OF THE AUDIT COMMITTEE MANDATE

This mandate was last revised and approved by the Board on May 25, 2017.

Exhibit B.3(b): **Audited consolidated financial statements for the year ended October 31, 2017 excerpted from pages 94-172 of the 2017 Annual Report of Canadian Imperial Bank of Commerce ("CIBC") including the Independent auditors' reports of registered public accounting firm to shareholders with respect to consolidated balance sheets as at October 31, 2017 and October 31, 2016 and the consolidated statements of income, comprehensive income, changes in equity and cash flows for each of the years in the three-year period ended October 31, 2017 and the report on internal controls under standards of the Public Company Accounting Oversight Board (United States) as of October 31, 2017**

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Financial reporting responsibility

The management of Canadian Imperial Bank of Commerce (CIBC) is responsible for the preparation, presentation, accuracy and reliability of the Annual Report, which includes the consolidated financial statements and management's discussion and analysis (MD&A). The consolidated financial statements have been prepared in accordance with Section 308(4) of the *Bank Act* (Canada), which requires that the financial statements be prepared in accordance with International Financial Reporting Standards as issued by the International Accounting Standards Board. The MD&A has been prepared in accordance with the requirements of applicable securities laws.

The consolidated financial statements and MD&A contain items that reflect the best estimates and judgments of the expected effects of current events and transactions with appropriate consideration to materiality. Financial information appearing throughout the Annual Report is consistent with the consolidated financial statements.

Management has developed and maintains effective systems, controls and procedures to ensure that information used internally and disclosed externally is reliable and timely. During the past year, we have continued to improve, document and test the design and operating effectiveness of internal control over financial reporting. The results of our work have been subjected to audit by the shareholders' auditors. Management has assessed the effectiveness of CIBC's internal control over financial reporting as at year end using the Internal Control – Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework). Based upon this assessment, we have determined that internal control over financial reporting is effective in all material respects and CIBC is in compliance with the requirements set by the U.S. Securities and Exchange Commission (SEC) under the U.S. Sarbanes-Oxley Act (SOX).

CIBC's Chief Executive Officer and Chief Financial Officer have certified CIBC's annual filings with the SEC under SOX and with the Canadian Securities Administrators under Canadian securities laws.

The Internal Audit department reviews and reports on the effectiveness of CIBC's internal control, risk management and governance systems and processes, including accounting and financial controls, in accordance with the audit plan approved by the Audit Committee. Our Chief Auditor has unrestricted access to the Audit Committee.

The Board of Directors oversees management's responsibilities for financial reporting through the Audit Committee, which is composed of independent directors. The Audit Committee reviews CIBC's interim and annual consolidated financial statements and MD&A and recommends them for approval by the Board of Directors. Other key responsibilities of the Audit Committee include monitoring CIBC's system of internal control, and reviewing the qualifications, independence and performance of the shareholders' auditors and internal auditors.

Ernst & Young LLP, the external auditors, obtain an understanding of CIBC's internal controls and procedures for financial reporting to plan and conduct such tests and other audit procedures as they consider necessary in the circumstances to express their opinions in the reports that follow. Ernst & Young LLP has unrestricted access to the Audit Committee to discuss their audit and related matters.

The Office of the Superintendent of Financial Institutions (OSFI) Canada is mandated to protect the rights and interest of depositors and creditors of CIBC. Accordingly, OSFI examines and enquires into the business and affairs of CIBC, as deemed necessary, to ensure that the provisions of the *Bank Act* (Canada) are being complied with and that CIBC is in sound financial condition.

Victor G. Dodig
President and Chief Executive Officer

Kevin Glass
Chief Financial Officer

November 29, 2017

Independent auditors' report of registered public accounting firm to shareholders

Report on the consolidated financial statements

We have audited the accompanying consolidated financial statements of Canadian Imperial Bank of Commerce (CIBC), which comprise the consolidated balance sheet as at October 31, 2017 and 2016 and the consolidated statements of income, comprehensive income, changes in equity and cash flows for each of the years in the three-year period ended October 31, 2017, and a summary of significant accounting policies and other explanatory information.

Management's responsibility for the consolidated financial statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with International Financial Reporting Standards as issued by the International Accounting Standards Board, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits in accordance with Canadian generally accepted auditing standards and the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditors consider internal control relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the consolidated financial statements, evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained in our audits is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of CIBC as at October 31, 2017 and 2016, and its financial performance and its cash flows for each of the years in the three-year period ended October 31, 2017, in accordance with International Financial Reporting Standards as issued by the International Accounting Standards Board.

Other matter

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), CIBC's internal control over financial reporting as of October 31, 2017, based on the criteria established in Internal Control – Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated November 29, 2017 expressed an unqualified opinion on CIBC's internal control over financial reporting.

Ernst & Young LLP
Chartered Professional Accountants
Licensed Public Accountants
Toronto, Canada
November 29, 2017

Independent auditors' report of registered public accounting firm to shareholders

Report on Internal Controls under Standards of the Public Company Accounting Oversight Board (United States)

We have audited Canadian Imperial Bank of Commerce's (CIBC) internal control over financial reporting as of October 31, 2017, based on criteria established in Internal Control – Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). CIBC's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying management's annual report on internal control over financial reporting contained in the accompanying management's discussion and analysis. Our responsibility is to express an opinion on CIBC's internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with International Financial Reporting Standards (IFRS) as issued by the International Accounting Standards Board (IASB). A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with IFRS as issued by the IASB, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, CIBC maintained, in all material respects, effective internal control over financial reporting as of October 31, 2017, based on the COSO criteria.

We have also audited, in accordance with Canadian generally accepted auditing standards and the standards of the Public Company Accounting Oversight Board (United States), the consolidated balance sheet of CIBC as at October 31, 2017 and 2016, and the consolidated statements of income, comprehensive income, changes in equity and cash flows for each of the years in the three-year period ended October 31, 2017 of CIBC and our report dated November 29, 2017 expressed an unqualified opinion thereon.

Ernst & Young LLP
Chartered Professional Accountants
Licensed Public Accountants
Toronto, Canada
November 29, 2017

Consolidated balance sheet

Millions of Canadian dollars, as at October 31	2017 (1)	2016
ASSETS		
Cash and non-interest-bearing deposits with banks	**$ 3,440**	$ 3,500
Interest-bearing deposits with banks	**10,712**	10,665
Securities (Note 4)		
Trading	**50,679**	49,915
Available-for-sale (AFS) and held-to-maturity (HTM)	**42,592**	37,253
Designated at fair value (FVO)	**148**	255
	93,419	87,423
Cash collateral on securities borrowed	**5,035**	5,433
Securities purchased under resale agreements	**40,383**	28,377
Loans (Note 5)		
Residential mortgages	**207,271**	187,298
Personal	**40,937**	38,041
Credit card	**12,378**	12,332
Business and government	**97,766**	71,437
Allowance for credit losses	**(1,618)**	(1,691)
	356,734	307,417
Other		
Derivative instruments (Note 12)	**24,342**	27,762
Customers' liability under acceptances	**8,824**	12,364
Land, buildings and equipment (Note 7)	**1,783**	1,898
Goodwill (Note 8)	**5,367**	1,539
Software and other intangible assets (Note 8)	**1,978**	1,410
Investments in equity-accounted associates and joint ventures (Note 26)	**715**	766
Deferred tax assets (Note 20)	**727**	771
Other assets (Note 9)	**11,805**	12,032
	55,541	58,542
	$ 565,264	$ 501,357
LIABILITIES AND EQUITY		
Deposits (Note 10)		
Personal	**$ 159,327**	$ 148,081
Business and government	**225,622**	190,240
Bank	**13,789**	17,842
Secured borrowings	**40,968**	39,484
	439,706	395,647
Obligations related to securities sold short	**13,713**	10,338
Cash collateral on securities lent	**2,024**	2,518
Obligations related to securities sold under repurchase agreements	**27,971**	11,694
Other		
Derivative instruments (Note 12)	**23,271**	28,807
Acceptances	**8,828**	12,395
Deferred tax liabilities (Note 20)	**30**	21
Other liabilities (Note 11)	**15,275**	12,898
	47,404	54,121
Subordinated indebtedness (Note 14)	**3,209**	3,366
Equity		
Preferred shares (Note 15)	**1,797**	1,000
Common shares (Note 15)	**12,548**	8,026
Contributed surplus	**137**	72
Retained earnings	**16,101**	13,584
Accumulated other comprehensive income (AOCI)	**452**	790
Total shareholders' equity	**31,035**	23,472
Non-controlling interests	**202**	201
Total equity	**31,237**	23,673
	$ 565,264	$ 501,357

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

The accompanying notes and shaded sections in "MD&A – Management of risk" are an integral part of these consolidated financial statements.

Victor G. Dodig
President and Chief Executive Officer

Jane L. Peverett
Director

Consolidated statement of income

Millions of Canadian dollars, except as noted, for the year ended October 31	**2017** (1)	2016	2015
Interest income			
Loans	**$ 11,028**	$ 9,833	$ 9,573
Securities	**1,890**	1,774	1,524
Securities borrowed or purchased under resale agreements	**495**	329	310
Deposits with banks	**180**	156	76
	13,593	12,092	11,483
Interest expense			
Deposits	**3,953**	3,215	2,990
Securities sold short	**226**	199	230
Securities lent or sold under repurchase agreements	**254**	127	110
Subordinated indebtedness	**142**	137	181
Other	**41**	48	57
	4,616	3,726	3,568
Net interest income	**8,977**	8,366	7,915
Non-interest income			
Underwriting and advisory fees	**452**	446	427
Deposit and payment fees	**843**	832	830
Credit fees	**744**	638	533
Card fees	**463**	470	449
Investment management and custodial fees	**1,034**	882	814
Mutual fund fees	**1,573**	1,462	1,457
Insurance fees, net of claims	**427**	396	361
Commissions on securities transactions	**349**	342	385
Trading income (loss)	**226**	(88)	(139)
AFS securities gains, net (Note 4)	**143**	73	138
FVO gains (losses), net	**1**	17	(3)
Foreign exchange other than trading (FXOTT)	**252**	367	92
Income from equity-accounted associates and joint ventures (Note 26)	**101**	96	177
Other (Note 3)	**695**	736	420
	7,303	6,669	5,941
Total revenue	**16,280**	15,035	13,856
Provision for credit losses (Note 5)	**829**	1,051	771
Non-interest expenses			
Employee compensation and benefits	**5,198**	4,982	5,099
Occupancy costs	**822**	804	782
Computer, software and office equipment	**1,630**	1,398	1,292
Communications	**317**	319	326
Advertising and business development	**282**	269	281
Professional fees	**229**	201	230
Business and capital taxes	**96**	68	68
Other	**997**	930	783
	9,571	8,971	8,861
Income before income taxes	**5,880**	5,013	4,224
Income taxes (Note 20)	**1,162**	718	634
Net income	**$ 4,718**	$ 4,295	$ 3,590
Net income attributable to non-controlling interests	**$ 19**	$ 20	$ 14
Preferred shareholders	**$ 52**	$ 38	$ 45
Common shareholders	**4,647**	4,237	3,531
Net income attributable to equity shareholders	**$ 4,699**	$ 4,275	$ 3,576
Earnings per share (EPS) (in dollars) (Note 21)			
Basic	**$ 11.26**	$ 10.72	$ 8.89
Diluted	**11.24**	10.70	8.87
Dividends per common share (in dollars) (Note 15)	**5.08**	4.75	4.30

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

The accompanying notes and shaded sections in "MD&A – Management of risk" are an integral part of these consolidated financial statements.

Consolidated statement of comprehensive income

Millions of Canadian dollars, for the year ended October 31	**2017** [1]	2016	2015
Net income	**$ 4,718**	$ 4,295	$ 3,590
Other comprehensive income (OCI), net of income tax, that is subject to subsequent reclassification to net income			
Net foreign currency translation adjustments			
Net gains (losses) on investments in foreign operations	**(1,148)**	487	1,445
Net (gains) losses on investments in foreign operations reclassified to net income	**–**	(272)	(21)
Net gains (losses) on hedges of investments in foreign operations	**772**	(257)	(720)
Net (gains) losses on hedges of investments in foreign operations reclassified to net income	**–**	121	18
	(376)	79	722
Net change in AFS securities			
Net gains (losses) on AFS securities	**6**	125	(67)
Net (gains) losses on AFS securities reclassified to net income	**(107)**	(58)	(97)
	(101)	67	(164)
Net change in cash flow hedges			
Net gains (losses) on derivatives designated as cash flow hedges	**70**	13	(7)
Net (gains) losses on derivatives designated as cash flow hedges reclassified to net income	**(60)**	(12)	3
	10	1	(4)
OCI, net of income tax, that is not subject to subsequent reclassification to net income			
Net gains (losses) on post-employment defined benefit plans	**139**	(390)	374
Net gains (losses) due to fair value change of FVO liabilities attributable to changes in credit risk	**(10)**	(5)	5
Total OCI [2]	**(338)**	(248)	933
Comprehensive income	**$ 4,380**	$ 4,047	$ 4,523
Comprehensive income attributable to non-controlling interests	**$ 19**	$ 20	$ 14
Preferred shareholders	**$ 52**	$ 38	$ 45
Common shareholders	**4,309**	3,989	4,464
Comprehensive income attributable to equity shareholders	**$ 4,361**	$ 4,027	$ 4,509

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Includes $24 million of losses for 2017 (2016: $6 million of gains; 2015: $5 million of losses) relating to our investments in equity-accounted associates and joint ventures.

Millions of Canadian dollars, for the year ended October 31	**2017** [1]	2016	2015
Income tax (expense) benefit			
Subject to subsequent reclassification to net income			
Net foreign currency translation adjustments			
Net gains (losses) on investments in foreign operations	**$ 42**	$ (17)	$ (118)
Net (gains) losses on investments in foreign operations reclassified to net income	**–**	37	3
Net gains (losses) on hedges of investments in foreign operations	**(170)**	128	91
Net (gains) losses on hedges of investments in foreign operations reclassified to net income	**–**	(26)	(6)
	(128)	122	(30)
Net change in AFS securities			
Net gains (losses) on AFS securities	**(23)**	(24)	42
Net (gains) losses on AFS securities reclassified to net income	**36**	15	48
	13	(9)	90
Net change in cash flow hedges			
Net gains (losses) on derivatives designated as cash flow hedges	**(23)**	(5)	2
Net (gains) losses on derivatives designated as cash flow hedges reclassified to net income	**22**	5	(2)
	(1)	–	–
Not subject to subsequent reclassification to net income			
Net gains (losses) on post-employment defined benefit plans	**(54)**	149	(129)
Net gains (losses) due to fair value change of FVO liabilities attributable to changes in credit risk	**4**	1	(1)
	$ (166)	$ 263	$ (70)

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

The accompanying notes and shaded sections in "MD&A – Management of risk" are an integral part of these consolidated financial statements.

Consolidated statement of changes in equity

Millions of Canadian dollars, for the year ended October 31	2017 (1)	2016	2015
Preferred shares (Note 15)			
Balance at beginning of year	**$ 1,000**	$ 1,000	$ 1,031
Issue of preferred shares	**800**	–	600
Redemption of preferred shares	**–**	–	(631)
Treasury shares	**(3)**	–	–
Balance at end of year	**$ 1,797**	$ 1,000	$ 1,000
Common shares (Note 15)			
Balance at beginning of year	**$ 8,026**	$ 7,813	$ 7,782
Issued pursuant to the acquisition of The PrivateBank	**3,443**	–	–
Issued pursuant to the acquisition of Geneva Advisors	**126**	–	–
Other issue of common shares	**957**	273	30
Purchase of common shares for cancellation	**–**	(61)	(2)
Treasury shares	**(4)**	1	3
Balance at end of year	**$ 12,548**	$ 8,026	$ 7,813
Contributed surplus			
Balance at beginning of year	**$ 72**	$ 76	$ 75
Issue of replacement equity-settled awards pursuant to the acquisition of The PrivateBank	**72**	–	–
Stock options and restricted shares expense	**7**	5	5
Stock options exercised	**(15)**	(9)	(4)
Other	**1**	–	–
Balance at end of year	**$ 137**	$ 72	$ 76
Retained earnings			
Balance at beginning of year	**$ 13,584**	$ 11,433	$ 9,626
Net income attributable to equity shareholders	**4,699**	4,275	3,576
Dividends (Note 15)			
Preferred	**(52)**	(38)	(45)
Common	**(2,121)**	(1,879)	(1,708)
Premium on purchase of common shares for cancellation	**–**	(209)	(9)
Other	**(9)**	2	(7)
Balance at end of year	**$ 16,101**	$ 13,584	$ 11,433
AOCI, net of income tax			
AOCI, net of income tax, that is subject to subsequent reclassification to net income			
Net foreign currency translation adjustments			
Balance at beginning of year	**$ 1,114**	$ 1,035	$ 313
Net change in foreign currency translation adjustments	**(376)**	79	722
Balance at end of year	**$ 738**	$ 1,114	$ 1,035
Net gains (losses) on AFS securities			
Balance at beginning of year	**$ 161**	$ 94	$ 258
Net change in AFS securities	**(101)**	67	(164)
Balance at end of year	**$ 60**	$ 161	$ 94
Net gains (losses) on cash flow hedges			
Balance at beginning of year	**$ 23**	$ 22	$ 26
Net change in cash flow hedges	**10**	1	(4)
Balance at end of year	**$ 33**	$ 23	$ 22
AOCI, net of income tax, that is not subject to subsequent reclassification to net income			
Net gains (losses) on post-employment defined benefit plans			
Balance at beginning of year	**$ (508)**	$ (118)	$ (492)
Net change in post-employment defined benefit plans	**139**	(390)	374
Balance at end of year	**$ (369)**	$ (508)	$ (118)
Net gains (losses) due to fair value change of FVO liabilities attributable to changes in credit risk			
Balance at beginning of year	**$ –**	$ 5	$ –
Net change attributable to changes in credit risk	**(10)**	(5)	5
Balance at end of year	**$ (10)**	$ –	$ 5
Total AOCI, net of income tax	**$ 452**	$ 790	$ 1,038
Non-controlling interests			
Balance at beginning of year	**$ 201**	$ 193	$ 164
Net income attributable to non-controlling interests	**19**	20	14
Dividends	**(8)**	(19)	(5)
Other	**(10)**	7	20
Balance at end of year	**$ 202**	$ 201	$ 193
Equity at end of year	**$ 31,237**	$ 23,673	$ 21,553

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

The accompanying notes and shaded sections in “MD&A – Management of risk” are an integral part of these consolidated financial statements.

Consolidated statement of cash flows

Millions of Canadian dollars, for the year ended October 31	**2017** [1]	2016 [2]	2015
Cash flows provided by (used in) operating activities			
Net income	**$ 4,718**	$ 4,295	$ 3,590
Adjustments to reconcile net income to cash flows provided by (used in) operating activities:			
Provision for credit losses	**829**	1,051	771
Amortization and impairment [3]	**542**	462	435
Stock options and restricted shares expense	**7**	5	5
Deferred income taxes	**21**	(20)	(61)
AFS securities losses (gains), net	**(143)**	(73)	(138)
Net losses (gains) on disposal of land, buildings and equipment	**(305)**	(72)	(2)
Other non-cash items, net	**(15)**	(692)	(257)
Net changes in operating assets and liabilities			
Interest-bearing deposits with banks	**394**	4,919	(4,731)
Loans, net of repayments	**(30,547)**	(27,464)	(22,610)
Deposits, net of withdrawals	**18,407**	28,440	40,510
Obligations related to securities sold short	**3,375**	532	(3,193)
Accrued interest receivable	**(34)**	(98)	(112)
Accrued interest payable	**90**	(72)	(77)
Derivative assets	**3,588**	(1,425)	(5,655)
Derivative liabilities	**(5,549)**	(232)	7,204
Trading securities	**(764)**	(3,734)	880
FVO securities	**107**	12	(14)
Other FVO assets and liabilities	**1,071**	807	327
Current income taxes	**(1,063)**	8	140
Cash collateral on securities lent	**(494)**	1,089	526
Obligations related to securities sold under repurchase agreements	**16,277**	2,780	(948)
Cash collateral on securities borrowed	**398**	(2,188)	144
Securities purchased under resale agreements	**(10,556)**	1,712	3,318
Other, net	**2,103**	169	(569)
	2,457	10,211	19,483
Cash flows provided by (used in) financing activities			
Issue of subordinated indebtedness	**–**	1,000	–
Redemption/repurchase/maturity of subordinated indebtedness	**(55)**	(1,514)	(1,130)
Issue of preferred shares, net of issuance cost	**792**	–	593
Redemption of preferred shares	**–**	–	(631)
Issue of common shares for cash	**194**	100	26
Purchase of common shares for cancellation	**–**	(270)	(11)
Net sale (purchase) of treasury shares	**(7)**	1	3
Dividends paid	**(1,425)**	(1,753)	(1,753)
	(501)	(2,436)	(2,903)
Cash flows provided by (used in) investing activities			
Purchase of AFS securities	**(37,864)**	(31,625)	(41,145)
Proceeds from sale of AFS securities	**18,787**	10,750	9,264
Proceeds from maturity of AFS securities	**19,368**	12,299	15,451
Cash used in acquisitions, net of cash acquired	**(2,517)**	–	–
Net cash provided by dispositions of investments in equity-accounted associates and joint ventures	**60**	1,363	185
Net sale (purchase) of land, buildings and equipment	**201**	(170)	(256)
	(1,965)	(7,383)	(16,501)
Effect of exchange rate changes on cash and non-interest-bearing deposits with banks	**(51)**	55	280
Net increase (decrease) in cash and non-interest-bearing deposits with banks during year	**(60)**	447	359
Cash and non-interest-bearing deposits with banks at beginning of year	**3,500**	3,053	2,694
Cash and non-interest-bearing deposits with banks at end of year [4]	**$ 3,440**	$ 3,500	$ 3,053
Cash interest paid	**$ 4,526**	$ 3,798	$ 3,646
Cash interest received	**12,611**	10,961	10,388
Cash dividend received	**949**	1,033	983
Cash income taxes paid	**2,204**	730	555

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Certain information has been reclassified to conform to the presentation adopted in the current year.
(3) Comprises amortization and impairment of buildings, furniture, equipment, leasehold improvements, and software and other intangible assets.
(4) Includes restricted balance of $436 million (2016: $422 million; 2015: $406 million).

The accompanying notes and shaded sections in “MD&A – Management of risk” are an integral part of these consolidated financial statements.

Notes to the consolidated financial statements

Canadian Imperial Bank of Commerce (CIBC) is a diversified financial institution governed by the *Bank Act* (Canada). CIBC was formed through the amalgamation of the Canadian Bank of Commerce and Imperial Bank of Canada in 1961. Through our four strategic business units – Canadian Personal and Small Business Banking, Canadian Commercial Banking and Wealth Management, U.S. Commercial Banking and Wealth Management, and Capital Markets – CIBC provides a full range of financial products and services to 11 million individual, small business, commercial, corporate and institutional clients in Canada, the U.S. and around the world. Refer to Note 28 for further details on our business units. CIBC is incorporated and domiciled in Canada with our registered and principal business offices located at Commerce Court, Toronto, Ontario.

Note 1 | Basis of preparation and summary of significant accounting policies

Basis of preparation

The consolidated financial statements of CIBC have been prepared in accordance with International Financial Reporting Standards (IFRS) as issued by the International Accounting Standards Board (IASB). These consolidated financial statements also comply with Section 308(4) of the *Bank Act* (Canada) and the requirements of the Office of the Superintendent of Financial Institutions (OSFI).

CIBC has consistently applied the same accounting policies throughout all periods presented, unless otherwise indicated.

These consolidated financial statements are presented in millions of Canadian dollars, unless otherwise indicated.

These consolidated financial statements were authorized for issue by the Board of Directors (the Board) on November 29, 2017.

Summary of significant accounting policies

The following paragraphs describe our significant accounting policies.

Use of estimates and assumptions

The preparation of the consolidated financial statements in accordance with IFRS requires management to make estimates and assumptions that affect the recognized and measured amounts of assets, liabilities, net income, comprehensive income and related disclosures. Significant estimates and assumptions are made in the areas of the valuation of financial instruments, impairment of AFS securities, allowance for credit losses, the evaluation of whether to consolidate structured entities (SEs), asset impairment, income taxes, provisions and contingent liabilities and post-employment and other long-term benefit plan assumptions. Actual results could differ from these estimates and assumptions.

Basis of consolidation

We consolidate entities over which we have control. We have control over another entity when we have: (i) power to direct relevant activities of the entity; (ii) exposure, or rights, to variable returns from our involvement with the entity; and (iii) the ability to affect those returns through our power over the entity.

Subsidiaries

Subsidiaries are entities over which CIBC has control. Generally, CIBC has power over its subsidiaries through a shareholding of more than 50% of the voting rights in its subsidiaries, and has significant exposure to the subsidiaries based on its ownership interests of more than 50%. The effects of potential voting rights that CIBC has the practical ability to exercise are considered when assessing whether control exists. Subsidiaries are consolidated from the date control is obtained by CIBC, and are deconsolidated from the date control is lost. Consistent accounting policies are applied for all consolidated subsidiaries. Details of our significant subsidiaries are provided in Note 27.

Structured entities

An SE is an entity that has been designed so that voting or similar rights are not the dominant factor in deciding who controls the entity, such as when any voting rights relate to administrative tasks only and the significant relevant activities are directed by contractual arrangements. SEs often have some or all of the following features or attributes: (i) restricted activities; (ii) a narrow and well-defined objective, such as to securitize our own financial assets or third-party financial assets to provide sources of funding or to provide investment opportunities for investors by passing on risks and rewards associated with the assets of the SE to investors; (iii) insufficient equity to permit the SE to finance its activities without subordinated financial support; or (iv) financing in the form of multiple contractually linked instruments to investors that create concentrations of credit or other risks. Examples of SEs include securitization vehicles, asset-backed financings, and investment funds.

When voting rights are not relevant in deciding whether CIBC has power over an entity, particularly for complex SEs, the assessment of control considers all facts and circumstances, including the purpose and design of the investee, its relationship with other parties and each party's ability to make decisions over significant activities, and whether CIBC is acting as a principal or as an agent.

Consolidation conclusions are reassessed whenever there is a change in the specific facts and circumstances relevant to one or more of the three elements of control. Factors that trigger the reassessment include, but are not limited to, significant changes in ownership structure of the entities, changes in contractual or governance arrangements, provision of a liquidity facility beyond the original terms, transactions with the entities that were not contemplated originally and changes in the financing structure of the entities.

Transactions eliminated on consolidation

All intercompany transactions, balances and unrealized gains and losses on transactions are eliminated on consolidation.

Non-controlling interests

Non-controlling interests are presented on the consolidated balance sheet as a separate component of equity that is distinct from CIBC's shareholders' equity. The net income attributable to non-controlling interests is presented separately in the consolidated statement of income.

Associates and joint ventures

We classify investments in entities over which we have significant influence, and that are neither subsidiaries nor joint ventures, as associates. Significant influence is presumed to exist where we hold, either directly or indirectly, between 20% and 50% of the voting rights of an entity, or, in the case of a limited partnership (LP), where CIBC is a co-general partner. Significant influence also may exist where we hold less than 20% of the voting rights of an entity, for example if we have influence over the policy-making processes through representation on the entity's Board of Directors, or by other means. Where we are a party to a contractual arrangement whereby together with one or more parties, we undertake an economic activity that is subject to joint control, we classify our interest in the venture as a joint venture.

Investments in associates and interests in joint ventures are accounted for using the equity method. Under the equity method, such investments are initially measured at cost, including attributable goodwill and intangible assets, and are adjusted thereafter for the post-acquisition change in our share of the net assets of the investment.

For purposes of applying the equity method for an investment that has a different reporting period from that of CIBC, adjustments are made for the effects of any significant events or transactions that occur between the reporting date of the investment and CIBC's reporting date.

Foreign currency translation

Monetary assets and liabilities and non-monetary assets and liabilities measured at fair value that are denominated in foreign currencies are translated into the functional currencies of operations at prevailing exchange rates at the date of the consolidated balance sheet. Revenue and expenses are translated using average monthly exchange rates. Realized and unrealized gains and losses arising from translation into functional currencies are included in the consolidated statement of income, with the exception of unrealized foreign exchange gains and losses on AFS equity securities, which are included in AOCI.

Assets and liabilities of foreign operations with a functional currency other than the Canadian dollar, including goodwill and fair value adjustments arising on acquisition, are translated into Canadian dollars at the exchange rates prevailing as at the consolidated balance sheet date, while revenue and expenses of these foreign operations are translated into Canadian dollars at the average monthly exchange rates. Exchange gains and losses arising from the translation of these foreign operations and from the results of hedging the net investment in these foreign operations, net of applicable taxes, are included in Net foreign currency translation adjustments, which is included in AOCI.

Any accumulated exchange gains and losses, including the impact of hedging, and any applicable taxes in AOCI are reclassified into the consolidated statement of income when there is a disposal of a foreign operation. On partial disposal of a foreign operation, the proportionate share of the accumulated exchange gains and losses, including the impact of hedging, and any applicable taxes previously recognized in AOCI are reclassified into the consolidated statement of income.

Classification and measurement of financial assets and liabilities

CIBC recognizes financial instruments on its consolidated balance sheet when it becomes a party to the contractual provisions of the instrument.

All financial assets must be classified at initial recognition as trading, AFS, FVO, HTM, or loans and receivables, based on the purpose for which the instrument was acquired and its characteristics. All financial assets and derivatives are required to be measured at fair value with the exception of loans and receivables, debt securities classified as HTM, and AFS equity instruments whose fair value cannot be reliably measured. Reclassification of non-derivative financial assets out of trading to loans and receivables is allowed when they are no longer held for trading, and if they meet the definition of loans and receivables and we have the intention and ability to hold the financial assets for the foreseeable future or until maturity. Reclassification of non-derivative financial assets out of trading to AFS is also allowed under rare circumstances. Non-derivative financial assets may be reclassified out of AFS to loans and receivables if they meet the definition of loans and receivables and we have the intention and ability to hold the financial assets for the foreseeable future or until maturity, or reclassified out of AFS to HTM if we have the intention to hold the financial assets until maturity.

Financial liabilities, other than derivatives, obligations related to securities sold short and FVO liabilities, are measured at amortized cost. Derivatives, obligations related to securities sold short and FVO liabilities are measured at fair value. Interest expense is recognized on an accrual basis using the effective interest rate method.

Loans and receivables

Loans and receivables are non-derivative financial assets with fixed or determinable payments that do not have a quoted market price in an active market and that we do not intend to sell immediately or in the near term at the time of inception. Loans and receivables are recognized initially at fair value, which represents the cash advanced to the borrower plus direct and incremental transaction costs. Subsequently, they are measured at amortized cost, using the effective interest rate method, net of an allowance for credit losses. Interest income is recognized on an accrual basis using the effective interest rate method. Certain loans and receivables may be designated at fair value (see below).

Trading financial instruments

Trading financial instruments are assets and liabilities held for trading activities or that are part of a managed portfolio with a pattern of short-term profit taking. These are measured initially at fair value. Loans and receivables that we intend to sell immediately or in the near term are classified as trading financial instruments.

Trading financial instruments are remeasured at fair value as at the consolidated balance sheet date. Gains and losses realized on disposition and unrealized gains and losses from changes in fair value are included in Non-interest income as Trading income (loss), except to the extent they are economically hedging an FVO asset or liability, in which case the gains and losses are included in FVO gains (losses), net. Dividends and interest income earned on trading securities and dividends and interest expense incurred on securities sold short are included in Interest income and Interest expense, respectively.

AFS financial assets

AFS financial assets are those non-derivative financial assets that are not classified as trading, FVO or loans and receivables, and are measured initially at fair value, plus direct and incremental transaction costs. Only equity instruments whose fair value cannot be reliably measured are measured at cost. We have determined that all of our equity securities have reliable fair values. As a result, all AFS financial assets are remeasured at fair value through OCI (FV-OCI) subsequent to initial recognition, except that foreign exchange gains or losses on AFS debt instruments are recognized in the consolidated statement of income. Unrealized foreign exchange gains or losses on AFS equity securities, along with all other fair value changes, are recognized in OCI until the investment is sold or impaired, whereupon the cumulative gains and losses previously recognized in OCI are transferred from AOCI to the consolidated statement of income. Realized gains and losses on sale, determined on an average cost basis, and write-downs to reflect impairment, are included in AFS securities gains (losses), net. Dividends and interest income from AFS financial assets are included in Interest income.

Designated at fair value financial instruments

FVO financial instruments are those that we designate on initial recognition as instruments that we will measure at fair value through the consolidated statement of income. This designation, once made, is irrevocable. In addition to the requirement that reliable fair values are available, there are restrictions imposed by IFRS and by OSFI on the use of this designation. The criteria for applying the FVO at inception is met when: (i) the application of the FVO eliminates or significantly reduces the measurement inconsistency that otherwise would arise from measuring assets or liabilities on a different basis; or (ii) the financial instruments are part of a portfolio which is managed on a fair value basis, in accordance with our investment strategy, and are reported internally on that basis. FVO may also be applied to financial instruments that have one or more embedded derivatives that would otherwise require bifurcation as they significantly modify the cash flows of the contract.

Gains and losses realized on dispositions and unrealized gains and losses from changes in fair value of FVO financial instruments, and gains and losses arising from changes in fair value of derivatives, trading securities and obligations related to securities sold short that are managed as economic hedges of the FVO financial instruments, are included in FVO gains (losses), net. Dividends and interest earned and interest expense incurred on FVO assets and liabilities are included in Interest income and Interest expense, respectively. Changes in the fair value of FVO liabilities that are attributable to changes in own credit risk are recognized in OCI.

Determination of fair value

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability between market participants in an orderly transaction in the principal market at the measurement date under current market conditions (i.e., the exit price). Fair value measurements are categorized into three levels within a fair value hierarchy (Level 1, 2 or 3) based upon the market observability of the valuation inputs used in measuring the fair value. See Note 2 for more details about fair value measurement subsequent to initial recognition by type of financial instrument.

Transaction costs

Transaction costs relating to trading and FVO financial instruments are expensed as incurred. Transaction costs for all other financial instruments are generally capitalized. For debt instruments, transaction costs are amortized over the expected life of the instrument using the effective interest rate method. For equity instruments, transaction costs are included in the carrying value.

Date of recognition of securities

We account for all securities on the consolidated balance sheet using settlement date accounting.

Effective interest rate

Interest income and expense for all financial instruments measured at amortized cost and for AFS debt securities is recognized in Interest income and Interest expense using the effective interest rate method. The effective interest rate is the rate that exactly discounts estimated future cash receipts or payments through the expected life of the financial instrument to the net carrying value of the financial asset or liability upon initial recognition. When calculating the effective interest rate, we estimate future cash flows considering all contractual terms of the financial instrument, but not future credit losses.

Fees relating to loan origination, including commitment, restructuring and renegotiation fees, are considered an integral part of the yield earned on the loan and are accounted for using the effective interest rate method. Fees received for commitments that are not expected to result in a loan are included in Non-interest income over the commitment period. Loan syndication fees are included in Non-interest income on completion of the syndication arrangement, provided that the yield on the portion of the loan we retain is at least equal to the average yield earned by the other lenders involved in the financing; otherwise, an appropriate portion of the fee is deferred as unearned income and amortized to interest income using the effective interest rate method.

Securities purchased under resale agreements and obligations related to securities sold under repurchase agreements

Securities purchased under resale agreements are treated as collateralized lending transactions and are measured at amortized cost as they represent the purchase of securities affected with a simultaneous agreement to sell them back at a future date at a fixed price, which is generally near term. Interest income is accrued using the effective interest rate method and is included in Interest income – Securities borrowed or purchased under resale agreements in the consolidated statement of income.

Similarly, securities sold under agreements to repurchase are treated as collateralized borrowing transactions with interest expense accrued using the effective interest rate method and are included in Interest expense – Securities lent or sold under repurchase agreements in the consolidated statement of income.

Cash collateral on securities borrowed and securities lent

The right to receive back cash collateral paid and the obligation to return cash collateral received on borrowing and lending of securities, which is generally near term, is recognized as cash collateral on securities borrowed and securities lent, respectively. Interest income on cash collateral paid and interest expense on cash collateral received is included in Interest income – Securities borrowed or purchased under resale agreements and Interest expense – Securities lent or sold under repurchase agreements, respectively. For securities borrowing and lending transactions where securities are pledged or received as collateral, securities pledged by CIBC remain on the consolidated balance sheet and securities received by CIBC are not recognized on the consolidated balance sheet. Security borrowing fees and security lending income are included in Non-interest income in the consolidated statement of income.

Impairment of financial assets

Impaired loans and interest income on impaired loans

We classify a loan as impaired when, in our opinion, there is objective evidence of impairment as a result of one or more loss events that have occurred after initial recognition of the loans with a negative impact on the estimated future cash flows of a loan or a portfolio of loans.

Objective evidence of impairment includes indications that the borrower is experiencing significant financial difficulties, or a default or delinquency has occurred. Generally, loans on which repayment of principal or payment of interest is contractually 90 days in arrears are automatically considered impaired unless they are fully secured and in the process of collection. Notwithstanding management's assessment of collectability, such loans are considered impaired if payments are 180 days in arrears. Exceptions are as follows:

- Credit card loans are not classified as impaired and are fully written off at the earlier of the notice of bankruptcy, settlement proposal, enlistment of credit counselling services, or when payments are contractually 180 days in arrears.
- Loans guaranteed or insured by a Canadian government (federal or provincial) or a Canadian government agency are classified as impaired only when payments are contractually 365 days in arrears.

In certain circumstances, we may modify a loan for economic or legal reasons related to a borrower's financial difficulties. Once a loan is modified, if management still does not expect full collection of payments under the modified loan terms, the loan is classified as impaired. An impaired loan is measured at its estimated realizable value determined by discounting the expected future cash flows at the loan's original effective interest rate. When a loan or a group of loans has been classified as impaired, interest income is recognized thereafter using the rate of interest used to discount the future cash flows for the purpose of measuring the impairment loss. For credit card loans, interest is accrued only to the extent that there is an expectation of receipt.

A loan is no longer considered impaired when all past due amounts, including interest, have been recovered, and it is determined that the principal and interest are fully collectable in accordance with the original contractual terms or revised market terms of the loan with all criteria for the impaired classification having been remedied. Once a loan is modified and management expects full collection of payments under the modified loan terms, the loan is not considered impaired. No portion of cash received on an impaired loan is recognized in the consolidated statement of income until the loan is returned to unimpaired status.

Loans are written off, either partially or in full, against the related allowance for credit losses when we judge that there is no realistic prospect of future recovery in respect of amounts written off. When loans are secured, this is generally after all collateral has been realized or transferred to CIBC, or in certain circumstances, when the net realizable value of any collateral and other available information suggests that there is no reasonable expectation of further recovery. In subsequent periods, any recoveries of amounts previously written off are credited to the provision for credit losses.

Allowance for credit losses
Allowance for credit losses consists of individual and collective components:

Individual allowance
We conduct ongoing credit assessments of the majority of the business and government loan portfolios on an account-by-account basis at each reporting date and we establish an allowance for credit losses when there is objective evidence that a loan is impaired.

Collective allowance
Loans are grouped in portfolios of similar credit risk characteristics and impairment is assessed on a collective basis in two circumstances:

(i) Incurred but not yet identified credit losses – for groups of individually assessed loans for which no objective evidence of impairment has been identified on an individual basis:
- A collective allowance is provided for losses which we estimate are inherent in the business and government portfolio as at the reporting date, but which have not yet been specifically identified from an individual assessment of the loan.
- The collective allowance is established with reference to expected loss rates associated with different credit portfolios at different risk levels and the estimated time period for losses that are present but yet to be specifically identified. We also consider estimates of the time periods over which losses that are present would be identified and a provision taken, our view of current and ongoing economic and portfolio trends, and evidence of credit quality improvements or deterioration. The period between a loss occurring and its identification is estimated by management for each identified portfolio. The parameters that affect the collective allowance calculation are updated regularly, based on our experience and that of the market in general.
- Expected loss rates are based on the risk rating of each credit facility and on the probability of default (PD) factors, as well as estimates of loss given default (LGD) associated with each risk rating. The PD factors reflect our historical loss experience and are supplemented by data derived from defaults in the public debt markets. Historical loss experience is adjusted based on current observable data to reflect the effects of current conditions. LGD estimates are based on our experience over past years.

(ii) For groups of loans where each loan is not considered to be individually significant:
- Residential mortgages, credit card loans, personal loans, and certain small business loan portfolios consist of large numbers of homogeneous balances of relatively small amounts, for which collective allowances are established by reference to historical ratios of write-offs to current accounts and balances in arrears.
- For residential mortgages, personal loans and certain small business loans, this historical loss experience enables CIBC to determine appropriate PD and LGD parameters, which are used in the calculation of the collective allowance. For credit card loans, the historical loss experience enables CIBC to calculate roll-rate models in order to determine an allowance amount driven by flows to write-off.
- We also consider estimates of the time periods over which losses that are present would be identified and a provision taken, our view of current and ongoing economic and portfolio trends, and evidence of credit quality improvements or deterioration. The parameters that affect the collective allowance calculation are updated regularly, based on our experience and that of the market in general.

Individual and collective allowances are provided for off-balance sheet credit exposures that are not measured at fair value. These allowances are included in Other liabilities.

AFS debt instruments
An AFS debt instrument is identified as impaired when there is objective observable evidence about our inability to collect the contractual principal or interest.

When an AFS debt instrument is determined to be impaired, an impairment loss is recognized by reclassifying the cumulative unrealized losses in AOCI to the consolidated statement of income. Impairment losses previously recognized in the consolidated statement of income are reversed in the consolidated statement of income if the fair value subsequently increases and the increase can be objectively determined to relate to an event occurring after the impairment loss was recognized.

AFS equity instruments
Objective evidence of impairment for an investment in an AFS equity instrument exists if there has been a significant or prolonged decline in the fair value of the investment below its cost, or if there is information about significant adverse changes in the technological, market, economic, or legal environment in which the issuer operates, or if the issuer is experiencing significant financial difficulty.

When an AFS equity instrument is determined to be impaired, an impairment loss is recognized by reclassifying the cumulative unrealized losses in AOCI to the consolidated statement of income. Impairment losses previously recognized in the consolidated statement of income cannot be subsequently reversed. Further decreases in fair value subsequent to the recognition of an impairment loss are recognized directly in the consolidated statement of income, and subsequent increases in fair value are recognized in OCI.

Derivatives

We use derivative instruments for both asset/liability management (ALM) and trading purposes. The derivatives used for ALM purposes allow us to manage financial risks, such as movements in interest and foreign exchange rates, while our derivative trading activities are primarily driven by client trading activities. We may also take proprietary trading positions with the objective of earning income.

All derivative instruments are recognized initially, and are measured subsequently, at fair value and are reported as assets where they have a positive fair value and as liabilities where they have a negative fair value, in both cases as derivative instruments. Any realized and unrealized gains or losses on derivatives used for trading purposes are recognized immediately in Trading income (loss). The accounting for derivatives used for ALM purposes depends on whether they qualify for hedge accounting as discussed below.

Fair values of exchange-traded derivatives are based on quoted market prices. Fair values of over-the-counter (OTC) derivatives, including OTC derivatives that are centrally cleared, are obtained using valuation techniques, including discounted cash flow models and option pricing models. See Note 12 for further information on the valuation of derivatives.

Derivatives used for ALM purposes that qualify for hedge accounting

We apply hedge accounting for derivatives held for ALM purposes that meet specified criteria. There are three types of hedges: fair value, cash flow and hedges of net investments in foreign operations (NIFOs). When hedge accounting is not applied, the change in the fair value of the derivative is recognized in the consolidated statement of income (see "Derivatives used for ALM purposes that are not designated for hedge accounting" below).

In order for derivatives to qualify for hedge accounting, the hedge relationship must be designated and formally documented at its inception in accordance with IAS 39 "Financial Instruments: Recognition and Measurement". The particular risk management objective and strategy, the specific asset, liability or cash flow being hedged, as well as how hedge effectiveness is assessed, are documented. Hedge effectiveness requires a high correlation of changes in fair values or cash flows between the hedged and hedging items.

We assess the effectiveness of derivatives in hedging relationships, both at inception and on an ongoing basis. Ineffectiveness results to the extent that the change in the fair value of the hedging derivative differs from the change in the fair value of the hedged risk in the hedged item; or the cumulative change in the fair value of the hedging derivative exceeds the cumulative change in the fair value of expected future cash flows of the hedged item. The amount of ineffectiveness of hedging instruments is recognized immediately in the consolidated statement of income.

Fair value hedges

We designate fair value hedges primarily as part of interest rate risk management strategies that use derivatives to hedge changes in the fair value of financial instruments with fixed interest rates. Changes in fair value attributed to the hedged interest rate risk are accounted for as basis adjustments to the hedged financial instruments and are included in Net interest income. Changes in fair value from the hedging derivatives are also included in Net interest income. Any differences between the two represent hedge ineffectiveness that is included in Net interest income.

Similarly, for hedges of foreign exchange risk, changes in the fair value from the hedging derivatives and non-derivatives are included in FXOTT. Changes in the fair value of the hedged item from the hedged foreign exchange risk are accounted for as basis adjustments and are also included in FXOTT. Any difference between the two represents hedge ineffectiveness.

If the hedging instrument expires or is sold, terminated or exercised, or where the hedge no longer meets the criteria for hedge accounting, the hedge relationship is terminated and the basis adjustment applied to the hedged item is amortized over the remaining term of the hedged item. If the hedged item is derecognized, the unamortized basis adjustment is recognized immediately in the consolidated statement of income.

Cash flow hedges

We designate cash flow hedges as part of interest rate risk management strategies that use derivatives to mitigate our risk from variable cash flows by effectively converting certain variable-rate financial instruments to fixed-rate financial instruments, and as part of foreign exchange rate risk management strategies to hedge forecasted foreign currency denominated cash flows. We also designate cash flow hedges to hedge changes in CIBC's share price in respect of certain cash-settled share-based payment awards.

The effective portion of the change in fair value of the derivative instrument is recognized in OCI until the variability in cash flows being hedged is recognized in the consolidated statement of income in future accounting periods, at which time an appropriate portion of the amount that was in AOCI is reclassified into the consolidated statement of income. The ineffective portion of the change in fair value of the hedging derivative is included in Net interest income, FXOTT, or Non-interest expenses immediately as it arises.

If the hedging instrument expires or is sold, terminated or exercised, or where the hedge no longer meets the criteria for hedge accounting, the hedge relationship is terminated. Upon termination of the hedge relationship, any remaining amount in AOCI remains therein until it is recognized in the consolidated statement of income when the variability in cash flows hedged or the hedged forecast transaction is ultimately recognized in the consolidated statement of income. When the forecasted transaction is no longer expected to occur, the related cumulative gain or loss in AOCI is recognized immediately in the consolidated statement of income.

Hedges of NIFOs with a functional currency other than the Canadian dollar

We may designate NIFO hedges to mitigate the foreign exchange risk on our net investments in foreign operations with a functional currency other than the Canadian dollar.

These hedges are accounted for in a similar manner to cash flow hedges. The change in fair value of the hedging instrument relating to the effective portion is recognized in OCI. The change in fair value of the hedging instrument attributable to the forward points and relating to the ineffective portion are recognized immediately in FXOTT. Gains and losses in AOCI are reclassified to the consolidated statement of income upon the disposal or partial disposal of the investment in the foreign operation, as explained in the "Foreign currency translation" policy above.

Derivatives used for ALM purposes that are not designated for hedge accounting

The change in fair value of the derivatives not designated as accounting hedges but used to economically hedge FVO assets or liabilities is included in FVO gains (losses), net. The change in fair value of other derivatives not designated as accounting hedges but used for other economic hedging purposes is included in FXOTT, Non-interest income – Other, or in the case of economic hedges of cash-settled share-based payment obligations, in compensation expense, as appropriate.

Embedded derivatives

All derivatives embedded in other financial instruments are accounted for as separate derivatives when their economic characteristics and risks are not closely related to those of the host instrument and the terms of the embedded derivative represent those of a freestanding derivative in situations where the combined instrument is not classified as trading or designated as FVO. These embedded derivatives, which are classified together with the host instrument on the consolidated balance sheet, are measured at fair value, with changes therein included in Non-interest income – Other. The residual amount of the host instrument asset or liability is accreted to its maturity value through Interest income and Interest expense, respectively, using the effective interest rate method.

Gains at inception on derivatives embedded in financial instruments bifurcated for accounting purposes are not recognized at inception; instead they are recognized over the life of the residual host instrument. Where an embedded derivative is separable from the host instrument but the fair value, as at the acquisition or reporting date, cannot be reliably measured separately or is otherwise not bifurcated, the entire combined contract is measured at fair value.

Securitizations and derecognition of financial assets

Securitization of our own assets provides us with an additional source of liquidity. As we generally retain substantially all of the risks and rewards of the transferred assets, assets remain on the consolidated balance sheet and funding from these transactions is accounted for as Deposits – Secured borrowings.

Securitizations to non-consolidated SEs are accounted for as sales, with the related assets being derecognized, only where:

- our contractual right to receive cash flows from the assets has expired;
- we transfer our contractual rights to receive the cash flows of the financial asset, and have: (i) transferred substantially all the risks and rewards of ownership; or (ii) neither retained nor transferred substantially all the risks and rewards, but have not retained control; or
- the transfer meets the criteria of a qualifying pass-through arrangement.

Derecognition of financial liabilities

A financial liability is derecognized when the obligation under the liability is discharged, cancelled or expires. If an existing financial liability is replaced by another liability from the same lender on substantially different terms, or the terms of the existing liability are substantially modified, such an exchange or modification is treated as a derecognition of the original liability and the recognition of a new liability, and the difference in the respective carrying values is recognized in the consolidated statement of income. The repurchase of a debt instrument is considered an extinguishment of that debt instrument even if we intend to resell the instrument in the near term.

Treasury shares

Where we repurchase our own equity instruments, these instruments are treated as treasury shares and are deducted from equity at their cost with any gain or loss recognized in Contributed surplus or Retained earnings as appropriate. No gain or loss is recognized in the consolidated statement of income on the purchase, sale, issue or cancellation of our own equity instruments. Any difference between the carrying value and the consideration, if reissued, is also included in Contributed surplus.

Mortgage commitments

Mortgage interest rate commitments are extended to our retail clients in contemplation of borrowing to finance the purchase of homes under mortgages to be funded by CIBC in the future. These commitments are usually for periods of up to 120 days and generally entitle the borrower to receive funding at the lower of the interest rate at the time of the commitment and the rate applicable at the funding date. We use financial instruments, such as interest rate derivatives, to economically hedge our exposure to an increase in interest rates. Based on our estimate of the commitments expected to be exercised, a financial liability would be recognized on our consolidated balance sheet, to which we apply the FVO. We also carry the associated economic hedges at fair value on the consolidated balance sheet. Changes in the fair value of the FVO commitment liability and the associated economic hedges are included in FVO gains (losses), net. In addition, since the fair value of the commitments is priced into the mortgage, the difference between the mortgage amount and its fair value at funding is recognized in the consolidated statement of income to offset the carrying value of the mortgage commitment that is released upon its expiry.

Financial guarantees

Financial guarantees are financial contracts that require the issuer to make specified payments to reimburse the holder for a loss it incurs because a specified debtor fails to make payment when due in accordance with the original or modified terms of a debt instrument.

Financial guarantee contracts issued by CIBC that are not classified as insurance contracts are initially recognized as a liability at fair value, adjusted for transaction costs that are directly attributable to the issuance of the guarantees, which is generally the premium received or receivable on the date the guarantee was given. Subsequently, financial guarantee liabilities are measured at the higher of the initial fair value, less cumulative amortization, and the present value of any expected payment when a payment under the guarantee has become probable. A financial guarantee that qualifies as a derivative is remeasured at fair value as at each reporting date and reported as Derivative instruments in assets or liabilities, as appropriate.

Accumulated other comprehensive income

AOCI is included on the consolidated balance sheet as a separate component of total equity, net of income tax. It includes net unrealized gains and losses on AFS securities, the effective portion of gains and losses on derivative instruments designated within effective cash flow hedges, unrealized foreign currency translation gains and losses on foreign operations with a functional currency other than the Canadian dollar net of gains or losses on related hedges, net gains (losses) related to fair value changes of FVO liabilities attributable to changes in own credit risk, and net gains (losses) on post-employment defined benefit plans.

Liabilities and equity

We classify financial instruments as a liability or equity based on the substance of the contractual arrangement. An instrument is classified as a liability if it is a contractual obligation to deliver cash or another financial asset, or to exchange financial assets or financial liabilities at potentially unfavourable terms. A contract is also classified as a liability if it is a non-derivative and could obligate us to deliver a variable number of our own shares or it is a derivative other than one that can be settled by the delivery of a fixed amount of cash or another financial asset for a fixed number of our own equity instruments. An instrument is classified as equity if it evidences a residual interest in our assets after deducting all liabilities. The components of a compound financial instrument are classified and accounted for separately as assets, liabilities, or equity as appropriate. Incremental costs directly attributable to the issuance of equity instruments are shown in equity, net of income tax.

Offsetting of financial assets and financial liabilities

Financial assets and financial liabilities are offset, and the amount presented net, when we have a legally enforceable right to set off the recognized amounts and intend to settle on a net basis or to realize the asset and settle the liability simultaneously.

Acceptances and customers' liability under acceptances

Acceptances constitute a liability of CIBC on negotiable instruments issued to third parties by our customers. We earn a fee for guaranteeing and then making the payment to the third parties. The amounts owed to us by our customers in respect of these guaranteed amounts are reflected in assets as Customers' liability under acceptances.

Land, buildings and equipment

Land is recognized initially at cost and is subsequently measured at cost less any accumulated impairment losses. Buildings, furniture, equipment and leasehold improvements are recognized initially at cost and are subsequently measured at cost less accumulated amortization and any accumulated impairment losses.

Depreciation commences when the assets are available for use and is recognized on a straight-line basis to depreciate the cost of these assets to their estimated residual value over their estimated useful lives. The estimated useful lives are as follows:

- Buildings – 40 years
- Computer equipment – 3 to 7 years
- Office furniture and other equipment – 4 to 15 years
- Leasehold improvements – over the estimated useful life

Depreciation methods, useful lives and residual values are reviewed at each annual reporting date and are adjusted if appropriate.

Gains and losses on disposal are included in Non-interest income – Other.

We consider a portion of land and a building underlying a finance lease arrangement as investment property since we sub-lease this portion to third parties. Our investment property is recognized initially at cost and is subsequently measured at cost less accumulated amortization and any accumulated impairment losses. Our investment property is depreciated on a straight-line basis over its estimated useful life, being the term of the lease.

Rental income is included in Non-interest income – Other.

Goodwill, software and other intangible assets

Goodwill represents the excess of the purchase price over the fair value of the net identifiable assets, liabilities and contingent liabilities acquired in business combinations. Identifiable intangible assets are recognized separately from goodwill when they are separable or arise from contractual or other legal rights, and have fair values that can be reliably measured.

Goodwill is not amortized, but is subject to impairment review at least annually or more frequently if there are indicators that the goodwill may be impaired. Refer to the "Impairment of non-financial assets" policy below.

Intangible assets represent software and customer relationships, core deposit intangibles, investment management contracts, and brand names recognized as part of past acquisitions. Intangible assets with definite useful lives are measured at cost less accumulated amortization and accumulated impairment losses. Each intangible asset is assessed for legal, regulatory, contractual, competitive or other factors to determine if the useful life is definite. Intangible assets with definite useful lives are amortized over their estimated useful lives, which are as follows:

- Software – 5 to 10 years
- Contract-based intangibles – 8 to 15 years
- Core deposit and customer relationship intangibles – 3 to 16 years

Intangible assets with indefinite useful lives are measured at cost less any accumulated impairment losses. Indefinite life intangible assets are tested for impairment at least annually and whenever there is an indication that the asset may be impaired. Refer to the "Impairment of non-financial assets" policy below.

Impairment of non-financial assets

The carrying values of non-financial assets with definite useful lives, including buildings and equipment, investment property, and intangible assets with definite useful lives are reviewed to determine whether there is any indication of impairment. Goodwill and intangible assets with indefinite useful lives are tested for impairment at least annually, and whenever there is an indication that the asset may be impaired. If any such indication of impairment exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss, if any.

For the purpose of reviewing non-financial assets with definite useful lives for impairment, asset groups are reviewed at their lowest level for which identifiable cash inflows are largely independent of cash inflows of other assets or groups of assets. This grouping is referred to as a cash-generating unit (CGU).

Corporate assets do not generate separate cash inflows. Corporate assets are tested for impairment at the minimum collection of CGUs to which the corporate asset can be allocated reasonably and consistently.

The recoverable amount is the greater of fair value less costs to sell and value in use. Value in use is the present value of the future cash flows expected to be derived from the asset or CGU. When the carrying value exceeds its recoverable amount, an impairment loss equal to the difference between the two amounts is recognized in the consolidated statement of income. If an impairment subsequently reverses, the carrying value of the asset is increased to the extent that the carrying value of the underlying assets does not exceed the carrying value that would have been determined, net of depreciation or amortization, if no impairment had been recognized. Any impairment reversal is recognized in the consolidated statement of income in the period in which it occurs.

Goodwill is assessed for impairment based on the group of CGUs expected to benefit from the synergies of the business combination, and the lowest level at which management monitors the goodwill. Any potential goodwill impairment is identified by comparing the recoverable amount of the CGU grouping to which the goodwill is allocated to its carrying value including the allocated goodwill. If the recoverable amount is less than its carrying value, an impairment loss is recognized in the consolidated statement of income in the period in which it occurs. Impairment losses on goodwill are not subsequently reversed if conditions change.

Income taxes

Income tax comprises current tax and deferred tax. Income tax is recognized in the consolidated statement of income, except to the extent that it relates to items recognized in OCI or directly in equity, in which case it is recognized accordingly.

Current tax is the tax expected to be payable on the taxable profit for the year, calculated using tax rates enacted or substantively enacted as at the reporting date, and any adjustment to tax payable in respect of previous years. Current tax assets and liabilities are offset when CIBC intends to settle on a net basis and the legal right to offset exists.

Deferred tax is recognized on temporary differences between the carrying value of assets and liabilities on the consolidated balance sheet and the corresponding amounts attributed to such assets and liabilities for tax purposes. Deferred tax liabilities are generally recognized for all taxable temporary differences unless the temporary differences relate to our NIFOs and will not reverse in the foreseeable future. Deferred tax assets, other than those arising from our NIFOs, are recognized to the extent that it is probable that future taxable profits will be available against which deductible temporary differences can be utilized. Deferred tax assets arising from our NIFOs are recognized for deductible temporary differences which are expected to reverse in the foreseeable future to the extent that it is probable that future taxable profits will be available against which these deductible temporary differences can be utilized. Deferred tax is not recognized for temporary differences on the initial recognition of assets or liabilities in a transaction that is not a business combination and that affects neither accounting nor taxable income, or for taxable temporary differences arising on the initial recognition of goodwill.

Deferred tax is measured at the tax rates that are expected to be applied to the temporary differences when they reverse, based on the laws that have been enacted or substantively enacted as at the reporting date.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets and liabilities and they relate to income taxes levied by the same tax authority on the same taxable entity or tax reporting group.

Pension and other post-employment benefits

We are the sponsor of a number of employee benefit plans. These plans include both defined benefit and defined contribution pension plans, and various other post-employment benefit plans including post-retirement medical and dental benefits.

Defined benefit plans

The cost of pensions and other post-employment benefits earned by employees is actuarially determined separately for each plan using the projected unit credit method and our best estimate of salary escalation, retirement ages of employees, mortality and expected health-care costs. This represents CIBC's defined benefit obligation, which is measured as at the reporting date. The discount rate used to measure the defined benefit obligation is based on the yield of a portfolio of high-quality corporate bonds denominated in the same currency in which the benefits are expected to be paid and with terms to maturity that, on average, match the terms of the defined benefit obligation.

Plan assets are measured at fair value as at the reporting date.

The net defined benefit asset (liability) represents the present value of the defined benefit obligation less the fair value of plan assets. The net defined benefit asset (liability) is included in Other assets and Other liabilities, respectively.

Current service cost reflects the cost of providing post-employment benefits earned by employees in the current period. Current service cost is calculated as the present value of the benefits attributed to the current year of service and is recognized in the consolidated statement of income. Commencing in 2016, the current service cost is calculated using a separate discount rate to reflect the longer duration of future benefit payments associated with the additional year of service to be earned by the plan's active participants. Previously, the current service cost was calculated using the same discount rate used to measure the defined benefit obligation for both active and retired participants.

Past service costs arising from plan amendments or curtailments are recognized in net income in the period in which they arise.

Net interest income or expense comprises interest income on plan assets and interest expense on the defined benefit obligation. Interest income is calculated by applying the discount rate to the plan assets, and interest expense is calculated by applying the discount rate to the defined benefit obligation. Net interest income or expense is recognized in the consolidated statement of income.

Actuarial gains and losses represent changes in the present value of the defined benefit obligation which result from changes in actuarial assumptions and differences between previous actuarial assumptions and actual experience, and from differences between the actual return on plan assets and assumed interest income on plan assets. Net actuarial gains and losses are recognized in OCI in the period in which they arise and are not subject to subsequent reclassification to net income. Cumulative net actuarial gains and losses are included in AOCI.

When the calculation results in a net defined benefit asset, the recognized asset is limited to the present value of economic benefits available in the form of future refunds from the plan or reductions in future contributions to the plan (the asset ceiling). For plans where we do not have an unconditional right to a refund of surplus, we determine the asset ceiling by reference to future economic benefits available in the form of reductions in future contributions to the plan, in which case the present value of economic benefits is calculated giving consideration to minimum funding requirements for future service that apply to the plan. Where a reduction in future contributions to the plan is not currently realizable at the reporting date, we estimate whether we will have the ability to reduce contributions for future service at some point during the life of the plan by taking into account, among other things, expected future returns on plan assets. If it is anticipated that we will not be able to recover the value of the net defined benefit asset, after considering minimum funding requirements for future service, the net defined benefit asset is reduced to the amount of the asset ceiling.

When the payment in the future of minimum funding requirements related to past service would result in a net defined benefit surplus, or an increase in a net defined benefit surplus, the minimum funding requirements are recognized as a liability to the extent that the surplus would not be fully available as a refund or a reduction in future contributions. Any funded status surplus is limited to the present value of future economic benefits available in the form of refunds from the plan or reductions in future contributions to the plan.

Defined contribution plans

Costs for defined contribution plans are recognized during the year in which the service is provided.

Other long-term employee benefits

CIBC sponsors a closed long-term disability plan that is classified as a long-term defined benefit arrangement. As the amount of the long-term disability benefit does not depend on the length of service, the obligation is recognized when an event occurs that gives rise to an obligation to make payments. CIBC also offers other medical and dental benefits to employees while on long-term disability.

The amount of other long-term employee benefits is actuarially calculated using the projected unit credit method. Under this method, the benefit is discounted to determine its present value. The methodology used to determine the discount rate used to value the long-term employee benefit obligation is consistent with that for pension and other post-employment benefit plans. Actuarial gains and losses and past service costs are recognized in the consolidated statement of income in the period in which they arise.

Share-based payments

We provide compensation to certain employees and directors in the form of share-based awards.

Compensation expense for share-based awards is recognized from the service commencement date to the earlier of the contractual vesting date or the employee's retirement eligible date. For grants regularly awarded in the annual incentive compensation cycle (annual incentive grant), the service commencement date is considered to be the start of the fiscal year that precedes the fiscal year in which the grant is made. The service commencement date in respect of special awards granted outside of the annual cycle is the grant date. The amount of compensation expense recognized is based on management's best estimate of the number of share-based awards expected to vest, including estimates of expected forfeitures, which are revised periodically as appropriate. For the annual incentive grant, compensation expense is recognized from the service commencement date based on the estimated fair value of the forthcoming grant with the estimated fair value adjusted to the actual fair value at the grant date.

Under the Restricted Share Award (RSA) plans, where grants are settled in the cash equivalent of common shares, changes in the obligation which arise from fluctuations in the market price of common shares, net of related hedges, are recognized in the consolidated statement of income as compensation expense in proportion to the award recognized. Under the Restricted Stock plan, where restricted stock is granted and settled in common shares, compensation expense is based on the grant date fair value. Compensation expense results in a corresponding increase to contributed surplus. When the restricted stock vests and is released from restriction, the amount recognized in Contributed surplus is credited to common share capital.

Under the Performance Share Unit (PSU) plan, where grants are settled in the cash equivalent of common shares, changes in the obligation which arise from fluctuations in the market price of common shares, and revised estimates of the performance factor, net of related hedges, are recognized in the consolidated statement of income as compensation expense in proportion to the award recognized. The performance factor ranges from 75% to 125% of the initial number of units awarded based on CIBC's performance relative to the other major Canadian banks.

The Book Value Unit (BVU) plan provides compensation related to the book value of CIBC on a per common share basis. The amount recognized is based on management's best estimate of the number of BVUs expected to vest, adjusted for new issues of, repurchase of, or dividends paid on, common shares.

Compensation expense in respect of the Employee Stock Option Plan (ESOP) is based on the grant date fair value. Where the service commencement date precedes the grant date, compensation expense is recognized from the service commencement date based on the estimated fair value of the award at the grant date, with the estimated fair value adjusted to the actual fair value at the grant date. Compensation expense results in a corresponding increase to contributed surplus. If the ESOP award is exercised, the proceeds we receive, together with the amount recognized in Contributed surplus, are credited to common share capital. If the ESOP award expires unexercised, the compensation expense remains in Contributed surplus.

Compensation in the form of Deferred Share Units (DSUs) issued pursuant to the Deferred Share Unit Plan, the Deferred Compensation Plan (DCP), and the Directors' Plan, entitle the holder to receive the cash equivalent of a CIBC common share. At the time DSUs are granted, the related expense in respect of the cash compensation that an employee or director would otherwise receive would have been fully recognized. Changes in the obligations which arise from fluctuations in the market price of common shares, net of related hedges, are recognized in the consolidated statement of income as compensation expense for employee DSUs and as Non-interest expense – Other for Directors' DSUs.

Our contributions under the Employee Share Purchase Plan (ESPP) are expensed as incurred.

The impact due to changes in common share price in respect of cash-settled share-based compensation under the RSA and PSU plans is hedged through the use of derivatives. We designate these derivatives within cash flow hedge accounting relationships. The effective portion of the change in fair value of these derivatives is recognized in OCI and is reclassified into compensation expense, within the consolidated statement of income, over the period that the hedged awards impact the consolidated statement of income. The ineffective portion of the change in fair value of the hedging derivatives is recognized in the consolidated statement of income immediately as it arises.

Provisions and contingent liabilities

Provisions are liabilities of uncertain timing or amount. A provision is recognized when we have a present legal or constructive obligation as a result of a past event, it is probable that an outflow of economic benefits will be required to settle the obligation, and a reliable estimate can be made of the amount of the obligation. The provision is recognized as the best estimate of the amount required to settle the obligation at the reporting date, taking into account the risk and uncertainties related to the obligation. Where material, provisions are discounted to reflect the time value of money and the increase in the obligation due to the passage of time is presented as interest expense in the consolidated statement of income.

Contingent liabilities are possible obligations that arise from past events whose existence will be confirmed only by the occurrence, or non-occurrence, of one or more uncertain future events not wholly within the control of CIBC, or are present obligations that have arisen from past events but are not recognized because it is not probable that settlement will require the outflow of economic benefits.

Provisions and contingent liabilities are disclosed in the consolidated financial statements.

Fee and commission income

The recognition of fee and commission income is determined by the purpose of the fee or commission and the basis of accounting for any associated financial instrument. Income earned on completion of a significant act is recognized when the act is completed. Income earned from the provision of services is recognized as revenue as the services are provided. Income which forms an integral part of the effective interest rate of a financial instrument is recognized as an adjustment to the effective interest rate.

Underwriting and advisory fees and commissions on securities transactions are recognized as revenue when the related services are completed.

Deposit and payment fees and insurance fees consist of monthly and annual fees that are recognized over the period that the related services are provided, and transactional fees that are recognized at the time the related services are provided.

Card fees primarily include interchange income, overlimit fees, cash advance fees, and annual fees. Card fees are recognized as billed, except for annual fees, which are recognized over the 12-month period to which they relate, and the portion of interchange income related to loyalty points, which is recognized when the loyalty points are redeemed.

Investment management fees are primarily based on the respective value of the assets under management (AUM) or assets under administration (AUA) and are recognized over the period that the related services are provided. Investment management fees relating to our asset management and private wealth management business are generally calculated based on point in time AUM balances, whereas investment management fees relating to our retail brokerage business are generally calculated based on point in time AUA balances. Custodial fees are recognized as revenue over the applicable service period, which is generally the contract term.

Mutual fund fees are recognized over the period that the mutual funds are managed and are based upon the daily net asset values of the respective mutual funds.

Earnings per share

We present basic and diluted EPS for our common shares.

Basic EPS is computed by dividing net income for the period attributable to CIBC common shareholders by the weighted-average number of common shares outstanding during the period.

Diluted EPS is computed by dividing net income for the period attributable to CIBC common shareholders by the weighted-average number of diluted common shares outstanding for the period. Diluted common shares reflect the potential dilutive effect of exercising the stock options based on the treasury stock method. The treasury stock method determines the number of incremental common shares by assuming that outstanding stock options, whose exercise price is less than the average market price of common shares during the period, are exercised and then reduced by the number of common shares assumed to be repurchased with the exercise proceeds from the assumed exercise of the options. When there is a loss attributable to CIBC common shareholders, diluted EPS equals basic EPS.

Changes in accounting policies

During the year, we adopted the following accounting policies as a result of the acquisition of PrivateBancorp, Inc. and its subsidiary, The PrivateBank and Trust Company on June 23, 2017.

Purchased loans

Both purchased performing and purchased credit-impaired loans are initially measured at their acquisition date fair values. As a result of recording the loans at fair value, no allowance for credit losses were recognized at the acquisition date. Fair value is determined by estimating principal and interest cash flows expected to be collected and discounting those cash flows at a market rate of interest. At the acquisition date, we classify a loan as performing where we expect timely collection of all amounts in accordance with the original contractual terms of the loan and as credit-impaired where it is probable that we will not be able to collect all contractually required payments.

For purchased performing loans, the acquisition date fair value adjustment on each loan is amortized to interest income over the expected remaining life of the loan using the effective interest rate method. Actual individual allowances for credit losses are recorded as they arise subsequent to the acquisition date in a manner that is consistent with our impairment policy for loans that we originate. As loans are repaid, the remaining unamortized amounts relating to those loans are recorded in income in the period that the loan is repaid. Collective allowances are established after the acquisition date as the purchased loan portfolio turns over and to the extent the credit quality of the acquired portfolio deteriorates.

For purchased credit-impaired loans, the acquisition date fair value adjustment on each loan consists of management's estimate of the shortfall of principal and interest cash flows expected to be collected and the time value of money. The time value of money component of the fair value adjustment is amortized to interest income over the expected remaining life of the loan using the effective interest rate method.

Subsequent to the acquisition date, we regularly re-estimate the expected cash flows and recognize any difference, either through our provision for credit loss or interest income. Decreases in expected cash flows will result in a charge to provision for credit losses and an increase in our allowance for credit losses. Increases in expected cash flows will result in a recovery of provision for credit losses and a reduction in our allowance for credit losses, or if no allowance exists, an increase in interest income.

HTM securities

HTM securities are non-derivative financial assets with fixed or determinable payments and fixed maturity, that do not meet the definition of loans and receivables, and where we have the intention and ability to hold to maturity. They are recognized initially at fair value plus transaction costs that are directly attributable to the acquisition of the securities. Subsequently, they are measured at amortized cost, using the effective interest rate method, net of impairment losses. Interest income is recognized on an accrual basis using the effective interest rate method.

Note 2 | Fair value measurement

This note presents the fair values of financial instruments and explains how we determine those values. Note 1, "Basis of preparation and summary of significant accounting policies" sets out the accounting treatment for each measurement category of financial instruments.

Fair value is defined as the price that would be received to sell an asset, or paid to transfer a liability, between market participants in an orderly transaction in the principal market at the measurement date under current market conditions (i.e., the exit price). The determination of fair value requires judgment and is based on market information, where available and appropriate. Fair value measurements are categorized into three levels within a fair value hierarchy (Level 1, 2 or 3) based on the valuation inputs used in measuring the fair value, as outlined below.

- Level 1 – Unadjusted quoted market prices in active markets for identical assets or liabilities we can access at the measurement date. Bid prices, ask prices or prices within the bid and ask, which are the most representative of the fair value, are used as appropriate to measure fair value. Fair value is best evidenced by an independent quoted market price for the same instrument in an active market. An active market is one where transactions are occurring with sufficient frequency and volume to provide quoted prices on an ongoing basis.
- Level 2 – Quoted prices for identical assets or liabilities in markets that are inactive or observable market quotes for similar instruments, or use of valuation techniques where all significant inputs are observable. Inactive markets may be characterized by a significant decline in the volume and level of observed trading activity or through large or erratic bid/offer spreads. In instances where traded markets do not exist or are not considered sufficiently active, we measure fair value using valuation models.
- Level 3 – Non-observable or indicative prices or use of valuation techniques where one or more significant inputs are non-observable.

For a significant portion of our financial instruments, quoted market prices are not available because of the lack of traded markets, and even where such markets do exist, they may not be considered sufficiently active to be used as a final determinant of fair value. When quoted market prices in active markets are not available, we would consider using valuation models. The valuation model and technique we select maximizes the use of observable market inputs to the extent possible and appropriate in order to estimate the price at which an orderly transaction would take place at the measurement date. In an inactive market, we consider all reasonably available information, including any available pricing for similar instruments, recent arm's-length market transactions, any relevant observable market inputs, indicative dealer or broker quotations, and our own internal model-based estimates.

Valuation adjustments are an integral component of our fair valuation process. We apply judgment in establishing valuation adjustments that take into account various factors that may have an impact on the valuation. Such factors include, but are not limited to, the bid-offer spread, illiquidity due to lack of market depth, parameter uncertainty and other market risk, model risk and credit risk.

Generally, the unit of account for a financial instrument is the individual instrument, and valuation adjustments are applied at an individual instrument level, consistent with that unit of account. In cases where we manage a group of financial assets and liabilities that consist of substantially similar and offsetting risk exposures, the fair value of the group of financial assets and liabilities are measured on the basis of the net open risks.

We apply judgment in determining the most appropriate inputs and the weighting we ascribe to each such input as well as in our selection of valuation methodologies. Regardless of the valuation technique we use, we incorporate assumptions that we believe market participants would make for credit, funding, and liquidity considerations. When the fair value of a financial instrument at inception is determined using a valuation technique that incorporates significant non-observable market inputs, no inception profit or loss (the difference between the determined fair value and the transaction price) is recognized at the time the asset or liability is first recorded. Any gains or losses at inception are deferred and recognized only in future periods over the term of the instruments or when market quotes or data become observable.

We have an ongoing process for evaluating and enhancing our valuation techniques and models. Where enhancements are made, they are applied prospectively, so that fair values reported in prior periods are not recalculated on the new basis. Valuation models used, including analytics for the construction of yield curves and volatility surfaces, are vetted and approved, consistent with our model risk policy.

To ensure that valuations are appropriate, we have established internal guidance on fair value measurement, which is reviewed periodically in recognition of the dynamic nature of markets and the constantly evolving pricing practices in the market. A number of policies and controls are put in place to ensure that the internal guidance on fair value measurement is being applied consistently and appropriately. Fair value of publicly issued securities and derivatives is independently validated at least once a month. Valuations are verified to external sources such as exchange quotes, broker quotes or other management-approved independent pricing sources. Key model inputs, such as yield curves and volatilities, are independently verified. The results from the independent price validation and any valuation adjustments are reviewed by the Independent Price Verification Committee on a monthly basis. This includes, but is not limited to, reviewing fair value adjustments and methodologies, independent price verification results, limits and valuation uncertainty. Fair value of privately issued securities is reviewed on a quarterly basis.

Due to the judgment used in applying a wide variety of acceptable valuation techniques and models, as well as the use of estimates inherent in this process, estimates of fair value for the same or similar assets may differ among financial institutions. The calculation of fair value is based on market conditions as at each consolidated balance sheet date, and may not be reflective of ultimate realizable value.

Methods and assumptions

Financial instruments with fair value equal to carrying value

For financial instruments that are not carried on the consolidated balance sheet at fair value and where we consider the carrying value to be a reasonable approximation of fair value due to their short-term nature and generally negligible credit risk, the fair values disclosed for these financial instruments are assumed to equal their carrying values. These financial instruments are: cash and non-interest-bearing deposits with banks; short-term interest-bearing deposits with banks; cash collateral on securities borrowed; securities purchased under resale agreements; customers' liability under acceptances; cash collateral on securities lent; obligations related to securities sold under repurchase agreements; acceptances; deposits with demand features; and certain other financial assets and liabilities.

Securities

The fair value of debt or equity securities and obligations related to securities sold short are based on quoted bid or ask market prices where available in an active market.

Securities for which quotes in an active market are not available are valued using all reasonably available market information as described below.

Fair value of government issued or guaranteed securities that are not traded in an active market are calculated by applying valuation techniques such as discounted cash flow models using implied yields derived from the prices of actively traded government securities and most recently observable spread differentials.

Fair value of corporate debt securities is determined using the most recently executed transaction prices, and where appropriate, adjusted to the price of these securities obtained from independent dealers, brokers, and third-party multi-contributor consensus pricing sources. When observable price quotations are not available, fair value is determined based on discounted cash flow models using observable discounting curves such as benchmark and government yield curves and spread differentials observed through independent dealers, brokers, and third-party multi-contributor consensus pricing sources.

Asset-backed securities (ABS) and mortgage-backed securities (MBS) not issued or guaranteed by a government are valued using discounted cash flow models making maximum use of market observable inputs, such as broker quotes on identical or similar securities and other pricing information obtained from third-party pricing sources adjusted for the characteristics and the performance of the underlying collateral. Other key inputs used include prepayment and liquidation rates, credit spreads, and discount rates commensurate with the risks involved. These assumptions factor information that is derived from actual transactions, underlying reference asset performance, external market research, and market indices, where appropriate.

Privately issued debt and equity securities, which include Community Reinvestment Act investments and Federal Home Loan Bank (FHLB) stock are valued using recent market transactions, where available. Otherwise, fair values are derived from valuation models using a market or income approach. These models consider various factors, including projected cash flows, earnings, revenue or other third-party evidence as available. The fair value of limited partnership (LP) investments is based upon net asset values published by third-party fund managers and is adjusted for more recent information, where available and appropriate. The carrying value of FHLB stock approximates fair value.

Loans

The fair value of variable-rate mortgages, which are largely prime rate based, is assumed to equal the carrying value. The fair value of fixed-rate mortgages is estimated using a discounted cash flow calculation that uses current market interest rates with similar remaining terms.

The fair value of variable-rate loans and loans for which interest rates are repriced or reset frequently are assumed to be equal to their carrying value. The fair value for fixed-rate loans is estimated using a discounted cash flow calculation that uses market interest rates.

The ultimate fair value of loans disclosed is net of the individual and collective allowances for impaired loans and loans not yet specifically identified as impaired, respectively. The fair value of loans is not adjusted for the value of any credit derivatives used to manage the credit risk associated with them. The fair value of these credit derivatives is disclosed separately.

In determining the fair value of collateralized loan obligations (CLOs) and collateralized debt obligations (CDOs) in our structured credit run-off business that are classified as loans and receivables, we apply valuation techniques using non-observable market inputs, including indicative broker quotes, proxy valuation from comparable financial instruments, and other internal models using our own assumptions of how market participants would price a market transaction on the measurement date.

Other assets and other liabilities

Other assets and other liabilities mainly comprise accrued interest receivable or payable, brokers' client accounts receivable or payable, and accounts receivable or payable.

The fair values of other assets and other liabilities are primarily assumed to be at cost or amortized cost as we consider the carrying value to be a reasonable approximation of fair value. Other assets also include investment in bank owned life insurance carried at the cash surrender value which is assumed to be a reasonable approximation of fair value.

Deposits

The fair values of floating-rate deposits and demand deposits are assumed to be equal to their amortized cost. The fair value of fixed-rate deposits is determined by discounting the contractual cash flows using either current market interest rates with similar remaining terms or rates estimated using internal models and broker quotes. The fair value of deposit notes issued to CIBC Capital Trust is determined by reference to the quoted market prices of CIBC Tier 1 Notes issued by CIBC Capital Trust. The fair value of deposit liabilities with embedded optionality includes the fair value of those options. The fair value of equity- and commodity-linked notes includes the fair value of embedded equity and commodity derivatives.

Certain FVO deposits are structured notes that have coupons or repayment terms linked to the performance of commodities, debt or equity securities. Fair value of these structured notes is estimated using internally vetted valuation models for the debt and embedded derivative portions of the notes by incorporating market observable prices of the referenced securities or comparable securities, and other inputs such as interest rate yield curves, market volatility levels, foreign exchange rates and changes in our own credit risk, where appropriate. Where observable prices or inputs are not available, management judgment is required to determine fair values by assessing other relevant sources of information such as historical data, proxy information from similar transactions, and through extrapolation and interpolation techniques. Appropriate market risk valuation adjustments for such inputs are assessed in all such instances.

The fair value of secured borrowings, which comprises liabilities issued by or as a result of activities associated with the securitization of residential mortgages, the Covered Bond Programme, and consolidated securitization vehicles, is based on identical or proxy market observable quoted bond prices or determined by discounting the contractual cash flows using maximum market observable inputs, such as market interest rates, or credit spreads implied by debt instruments of similar credit quality, as appropriate.

Subordinated indebtedness

The fair value of subordinated indebtedness is determined by reference to market prices for the same or similar debt instruments.

Derivative instruments

The fair value of exchange-traded derivatives such as options and futures is based on quoted market prices. OTC derivatives primarily consist of interest rate swaps, foreign exchange forwards, equity and commodity derivatives, interest rate and currency derivatives, and credit derivatives. For such instruments, where quoted market prices or third-party consensus pricing information are not available, valuation techniques are employed to estimate fair value on the basis of pricing models. Such vetted pricing models incorporate current market measures for interest rates, foreign exchange rates, equity and commodity prices and indices, credit spreads, corresponding market volatility levels, and other market-based pricing factors.

In order to reflect the observed market practice of pricing collateralized and uncollateralized derivatives, our valuation approach uses overnight indexed swap (OIS) curves as the discount rate for valuing collateralized derivatives and uses an estimated market cost of funds curve as the discount rate for valuing uncollateralized derivatives. The impact of valuing uncollateralized derivatives based on an estimated market cost of funds curve reduces the fair value of uncollateralized derivative assets incremental to the reduction in fair value for credit risk already reflected through the credit valuation adjustment (CVA). In contrast, the use of a market cost of funds curve reduces the fair value of uncollateralized derivative liabilities in a manner that generally includes adjustments for our own credit. As market practices continue to evolve in regard to derivative valuation, further adjustments may be required in the future.

In determining the fair value of complex and customized derivatives, such as equity, credit, and commodity derivatives written in reference to indices or baskets of reference, we consider all reasonably available information including any relevant observable market inputs, third-party consensus pricing inputs, indicative dealer and broker quotations, and our own internal model-based estimates, which are vetted and pre-approved in accordance with our model risk policy, and are regularly and periodically calibrated. The model calculates fair value based on inputs specific to the type of contract, which may include stock prices, correlation for multiple assets, interest rates, foreign exchange rates, yield curves, and volatility surfaces. Where observable prices or inputs are not available, management judgment is required to determine fair values by assessing other relevant sources of information such as historical data, proxy information from similar transactions, and through extrapolation and interpolation techniques. Appropriate parameter uncertainty and market risk valuation adjustments for such inputs and other model risk valuation adjustments are assessed in all such instances.

In addition to reflecting estimated market funding costs in our valuation of uncollateralized derivative receivables, we also consider whether a CVA is required to recognize the risk that any given derivative counterparty may not ultimately be able to fulfill its obligations. The CVA is driven off market-observed credit spreads or proxy credit spreads and our assessment of the net counterparty credit risk exposure. In assessing this exposure, we also take into account credit mitigants such as collateral, master netting arrangements, and settlements through clearing houses. As noted above, the fair value of uncollateralized derivative liabilities based on market cost of funding generally includes adjustments for our own credit.

For credit derivatives purchased from financial guarantors, our CVA is generally driven off market-observed credit spreads, where available. For financial guarantors that do not have observable credit spreads or where observable credit spreads are available but do not reflect an orderly market (i.e., not representative of fair value), a proxy market spread is used. The proxy market credit spread is based on our internal credit rating for the particular financial guarantor. Credit spreads contain information on market (or proxy market) expectations of PD as well as LGD. The credit spreads are applied in relation to the weighted-average life of our exposure to the counterparties. For financial guarantor counterparties where a proxy market spread is used, we also make an adjustment to reflect additional financial guarantor risk over an equivalently rated non-financial guarantor counterparty. The amount of the adjustment is dependent on all available internal and external market information for financial guarantors. The final CVA takes into account the expected correlation between the future performance of the underlying reference assets and that of the counterparties, except for high quality reference assets where we expect no future credit degradation.

Where appropriate on certain financial guarantors, we determine the CVA based on estimated recoverable amounts.

Mortgage commitments

The fair value of FVO mortgage commitments is for fixed-rate residential mortgage commitments and is based on changes in market interest rates for the loans between the commitment and the consolidated balance sheet dates. The valuation model takes into account the expected probability that outstanding commitments will be exercised as well as the length of time the commitment is offered.

Fair value of financial instruments

$ millions, as at October 31		Carrying value: Amortized cost	Carrying value: Fair value through net income	Carrying value: Fair value through OCI	Carrying value: Total	Fair value	Fair value over (under) carrying value
2017 [1]	**Financial assets**						
	Cash and deposits with banks	**$ 13,735**	**$ 417**	**$ –**	**$ 14,152**	**$ 14,152**	**$ –**
	Securities	**2,435**	**50,827**	**40,157**	**93,419**	**93,406**	**(13)**
	Cash collateral on securities borrowed	**5,035**	**–**	**–**	**5,035**	**5,035**	**–**
	Securities purchased under resale agreements	**38,933**	**1,450**	**–**	**40,383**	**40,383**	**–**
	Loans						
	Residential mortgages	**207,056**	**12**	**–**	**207,068**	**206,135**	**(933)**
	Personal	**40,442**	**–**	**–**	**40,442**	**40,438**	**(4)**
	Credit card	**11,992**	**–**	**–**	**11,992**	**11,992**	**–**
	Business and government	**83,222**	**14,010**	**–**	**97,232**	**97,188**	**(44)**
	Derivative instruments	**–**	**24,342**	**–**	**24,342**	**24,342**	**–**
	Customers' liability under acceptances	**8,824**	**–**	**–**	**8,824**	**8,824**	**–**
	Other assets	**7,386**	**–**	**–**	**7,386**	**7,386**	**–**
	Financial liabilities						
	Deposits						
	Personal	**$ 158,690**	**$ 637**	**$ –**	**$ 159,327**	**$ 159,302**	**$ (25)**
	Business and government	**220,050**	**5,572**	**–**	**225,622**	**225,955**	**333**
	Bank	**13,789**	**–**	**–**	**13,789**	**13,789**	**–**
	Secured borrowings	**40,634**	**334**	**–**	**40,968**	**41,391**	**423**
	Derivative instruments	**–**	**23,271**	**–**	**23,271**	**23,271**	**–**
	Acceptances	**8,828**	**–**	**–**	**8,828**	**8,828**	**–**
	Obligations related to securities sold short	**–**	**13,713**	**–**	**13,713**	**13,713**	**–**
	Cash collateral on securities lent	**2,024**	**–**	**–**	**2,024**	**2,024**	**–**
	Obligations related to securities sold under repurchase agreements	**27,971**	**–**	**–**	**27,971**	**27,971**	**–**
	Other liabilities	**9,782**	**135**	**–**	**9,917**	**9,917**	**–**
	Subordinated indebtedness	**3,209**	**–**	**–**	**3,209**	**3,541**	**332**
2016	**Financial assets**						
	Cash and deposits with banks	$ 13,818	$ 347	$ –	$ 14,165	$ 14,165	$ –
	Securities	–	50,170	37,253	87,423	87,423	–
	Cash collateral on securities borrowed	5,433	–	–	5,433	5,433	–
	Securities purchased under resale agreements	28,377	–	–	28,377	28,377	–
	Loans						
	Residential mortgages	187,077	–	–	187,077	187,583	506
	Personal	37,544	–	–	37,544	37,556	12
	Credit card	11,946	–	–	11,946	11,946	–
	Business and government	64,210	6,640	–	70,850	70,911	61
	Derivative instruments	–	27,762	–	27,762	27,762	–
	Customers' liability under acceptances	12,364	–	–	12,364	12,364	–
	Other assets	8,356	–	–	8,356	8,356	–
	Financial liabilities						
	Deposits						
	Personal	$ 147,878	$ 203	$ –	$ 148,081	$ 148,088	$ 7
	Business and government	187,050	3,190	–	190,240	190,812	572
	Bank	17,842	–	–	17,842	17,842	–
	Secured borrowings	39,393	91	–	39,484	39,881	397
	Derivative instruments	–	28,807	–	28,807	28,807	–
	Acceptances	12,395	–	–	12,395	12,395	–
	Obligations related to securities sold short	–	10,338	–	10,338	10,338	–
	Cash collateral on securities lent	2,518	–	–	2,518	2,518	–
	Obligations related to securities sold under repurchase agreements	11,694	–	–	11,694	11,694	–
	Other liabilities	8,219	146	–	8,365	8,365	–
	Subordinated indebtedness	3,366	–	–	3,366	3,633	267

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

Fair value of derivative instruments

$ millions, as at October 31		2017			2016		
		Positive	**Negative**	**Net**	Positive	Negative	Net
Held for trading							
Interest rate derivatives							
Over-the-counter	– Forward rate agreements	**$ 56**	**$ 44**	**$ 12**	$ 13	$ 44	$ (31)
	– Swap contracts	**6,968**	**7,220**	**(252)**	11,501	10,941	560
	– Purchased options	**153**	**–**	**153**	181	–	181
	– Written options	**–**	**168**	**(168)**	–	189	(189)
		7,177	**7,432**	**(255)**	11,695	11,174	521
Exchange-traded	– Futures contracts	**–**	**–**	**–**	–	–	–
	– Purchased options	**–**	**–**	**–**	–	–	–
	– Written options	**–**	**153**	**(153)**	–	–	–
		–	**153**	**(153)**	–	–	–
Total interest rate derivatives		**7,177**	**7,585**	**(408)**	11,695	11,174	521
Foreign exchange derivatives							
Over-the-counter	– Forward contracts	**3,603**	**3,097**	**506**	3,693	3,545	148
	– Swap contracts	**6,028**	**6,012**	**16**	5,914	6,612	(698)
	– Purchased options	**217**	**–**	**217**	310	–	310
	– Written options	**–**	**243**	**(243)**	–	281	(281)
		9,848	**9,352**	**496**	9,917	10,438	(521)
Total foreign exchange derivatives		**9,848**	**9,352**	**496**	9,917	10,438	(521)
Credit derivatives							
Over-the-counter	– Total return swap contracts – protection sold	**–**	**–**	**–**	–	–	–
	– Credit default swap contracts – protection purchased	**130**	**31**	**99**	141	14	127
	– Credit default contracts – protection sold	**11**	**148**	**(137)**	–	201	(201)
Total credit derivatives		**141**	**179**	**(38)**	141	215	(74)
Equity derivatives							
Over-the-counter		**1,197**	**2,323**	**(1,126)**	385	1,473	(1,088)
Exchange-traded		**1,541**	**936**	**605**	742	493	249
Total equity derivatives		**2,738**	**3,259**	**(521)**	1,127	1,966	(839)
Precious metal derivatives							
Over-the-counter		**40**	**74**	**(34)**	32	10	22
Exchange-traded		**186**	**50**	**136**	38	24	14
Total precious metal derivatives		**226**	**124**	**102**	70	34	36
Other commodity derivatives							
Over-the-counter		**1,138**	**775**	**363**	1,365	825	540
Exchange-traded		**84**	**1**	**83**	123	192	(69)
Total other commodity derivatives		**1,222**	**776**	**446**	1,488	1,017	471
Total held for trading		**21,352**	**21,275**	**77**	24,438	24,844	(406)
Held for ALM							
Interest rate derivatives							
Over-the-counter	– Forward rate agreements	**1**	**–**	**1**	–	–	–
	– Swap contracts	**1,065**	**300**	**765**	737	789	(52)
	– Purchased options	**3**	**–**	**3**	8	–	8
	– Written options	**–**	**2**	**(2)**	–	–	–
Total interest rate derivatives		**1,069**	**302**	**767**	745	789	(44)
Foreign exchange derivatives							
Over-the-counter	– Forward contracts	**87**	**14**	**73**	228	33	195
	– Swap contracts	**1,707**	**1,631**	**76**	2,347	3,128	(781)
	– Purchased options	**1**	**–**	**1**	–	–	–
	– Written options	**–**	**1**	**(1)**	–	–	–
		1,795	**1,646**	**149**	2,575	3,161	(586)
Exchange-traded	– Futures contracts	**–**	**–**	**–**	–	–	–
Total foreign exchange derivatives		**1,795**	**1,646**	**149**	2,575	3,161	(586)
Credit derivatives							
Over-the-counter	– Total return swap contracts – protection sold	**–**	**–**	**–**	–	–	–
	– Credit default swap contracts – protection purchased	**–**	**3**	**(3)**	1	–	1
	– Credit default contracts – protection sold	**–**	**–**	**–**	–	–	–
Total credit derivatives		**–**	**3**	**(3)**	1	–	1
Equity derivatives							
Over-the-counter		**126**	**44**	**82**	3	13	(10)
Exchange-traded		**–**	**–**	**–**	–	–	–
Total equity derivatives		**126**	**44**	**82**	3	13	(10)
Other commodity derivatives							
Over-the-counter		**–**	**1**	**(1)**	–	–	–
Exchange-traded		**–**	**–**	**–**	–	–	–
Total other commodity derivatives		**–**	**1**	**(1)**	–	–	–
Total held for ALM		**2,990**	**1,996**	**994**	3,324	3,963	(639)
Total fair value		**24,342**	**23,271**	**1,071**	27,762	28,807	(1,045)
Less: effect of netting		**(13,977)**	**(13,977)**	**–**	(17,965)	(17,965)	–
		$ 10,365	**$ 9,294**	**$ 1,071**	$ 9,797	$ 10,842	$ (1,045)

Assets and liabilities not carried on the consolidated balance sheet at fair value

The table below presents the fair values by level within the fair value hierarchy for those assets and liabilities in which fair value is not assumed to equal the carrying value:

	Level 1 Quoted market price		Level 2 Valuation technique – observable market inputs		Level 3 Valuation technique – non-observable market inputs		**Total**	Total
$ millions, as at October 31	**2017** [1]	2016	**2017** [1]	2016	**2017** [1]	2016	**2017** [1]	2016
Financial assets								
HTM securities	**$ –**	$ –	**$ 2,422**	$ –	**$ –**	$ –	**$ 2,422**	$ –
Loans								
Residential mortgages	**–**	–	**–**	–	**206,123**	187,583	**206,123**	187,583
Personal	**–**	–	**–**	–	**40,438**	37,556	**40,438**	37,556
Credit card	**–**	–	**–**	–	**11,992**	11,946	**11,992**	11,946
Business and government	**–**	–	**–**	–	**83,178**	64,271	**83,178**	64,271
Investment in equity-accounted associates [2]	**192**	223	**–**	–	**164**	198	**356**	421
Financial liabilities								
Deposits								
Personal	**$ –**	$ –	**$ 43,047**	$ 43,419	**$ 1,524**	$ –	**$ 44,571**	$ 43,419
Business and government	**–**	–	**117,461**	111,091	**1,801**	–	**119,262**	111,091
Bank	**–**	–	**8,568**	13,171	**–**	–	**8,568**	13,171
Secured borrowings	**–**	–	**37,995**	35,535	**3,062**	4,255	**41,057**	39,790
Subordinated indebtedness	**–**	–	**3,541**	3,633	**–**	–	**3,541**	3,633

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) See Note 26 for details of our equity-accounted associates.

Financial instruments carried on the consolidated balance sheet at fair value

The table below presents the fair values of financial instruments by level within the fair value hierarchy:

	Level 1 Quoted market price		Level 2 Valuation technique – observable market inputs		Level 3 Valuation technique – non-observable market inputs		**Total**	Total
$ millions, as at October 31	**2017**	2016	**2017**	2016	**2017**	2016	**2017**	2016
Financial assets								
Deposits with banks	**$ –**	$ –	**$ 417**	$ 347	**$ –**	$ –	**$ 417**	$ 347
Trading securities								
Government issued or guaranteed	**2,403**	1,474	**13,049**	9,307	**–**	–	**15,452**	10,781
Corporate equity	**30,737**	35,023	**255**	554	**32**	40	**31,024**	35,617
Corporate debt	**–**	–	**2,256**	1,853	**–**	–	**2,256**	1,853
Mortgage- and asset-backed	**–**	–	**1,944**	1,168	**3**	496	**1,947**	1,664
	33,140	36,497	**17,504**	12,882	**35**	536	**50,679**	49,915
Trading loans								
Business and government	**–**	–	**13,907**	6,640	**103**	–	**14,010**	6,640
Residential mortgages	**–**	–	**12**	–	**–**	–	**12**	–
	–	–	**13,919**	6,640	**103**	–	**14,022**	6,640
AFS securities								
Government issued or guaranteed	**4,299**	1,429	**21,015**	22,445	**–**	–	**25,314**	23,874
Corporate equity	**28**	30	**152**	–	**289**	344	**469**	374
Corporate debt	**–**	–	**5,152**	5,838	**4**	5	**5,156**	5,843
Mortgage- and asset-backed	**–**	–	**7,544**	5,215	**1,674**	1,947	**9,218**	7,162
	4,327	1,459	**33,863**	33,498	**1,967**	2,296	**40,157**	37,253
FVO securities								
Government issued or guaranteed	**–**	–	**54**	59	**–**	–	**54**	59
Corporate debt	**–**	–	**–**	102	**–**	–	**–**	102
Asset-backed	**–**	–	**–**	–	**94**	94	**94**	94
	–	–	**54**	161	**94**	94	**148**	255
FVO securities purchased under resale agreements	**–**	–	**1,450**	–	**–**	–	**1,450**	–
Derivative instruments								
Interest rate	**–**	–	**8,218**	12,409	**28**	31	**8,246**	12,440
Foreign exchange	**–**	–	**11,643**	12,492	**–**	–	**11,643**	12,492
Credit	**–**	–	**11**	2	**130**	140	**141**	142
Equity	**1,541**	742	**1,285**	364	**38**	24	**2,864**	1,130
Precious metal	**–**	–	**226**	70	**–**	–	**226**	70
Other commodity	**270**	161	**952**	1,327	**–**	–	**1,222**	1,488
	1,811	903	**22,335**	26,664	**196**	195	**24,342**	27,762
Total financial assets	**$ 39,278**	$ 38,859	**$ 89,542**	$ 80,192	**$ 2,395**	$ 3,121	**$ 131,215**	$ 122,172
Financial liabilities								
Deposits and other liabilities [1]	**$ –**	$ –	**$ (6,309)**	$ (3,124)	**$ (369)**	$ (506)	**$ (6,678)**	$ (3,630)
Obligations related to securities sold short	**(7,291)**	(4,684)	**(6,422)**	(5,654)	**–**	–	**(13,713)**	(10,338)
	(7,291)	(4,684)	**(12,731)**	(8,778)	**(369)**	(506)	**(20,391)**	(13,968)
Derivative instruments								
Interest rate	**–**	(2)	**(7,867)**	(11,926)	**(20)**	(35)	**(7,887)**	(11,963)
Foreign exchange	**–**	–	**(10,998)**	(13,599)	**–**	–	**(10,998)**	(13,599)
Credit	**–**	–	**(34)**	(18)	**(148)**	(197)	**(182)**	(215)
Equity	**(937)**	(491)	**(2,289)**	(1,446)	**(77)**	(42)	**(3,303)**	(1,979)
Precious metal	**–**	–	**(124)**	(34)	**–**	–	**(124)**	(34)
Other commodity	**(203)**	(216)	**(574)**	(801)	**–**	–	**(777)**	(1,017)
	(1,140)	(709)	**(21,886)**	(27,824)	**(245)**	(274)	**(23,271)**	(28,807)
Total financial liabilities	**$ (8,431)**	$ (5,393)	**$ (34,617)**	$ (36,602)	**$ (614)**	$ (780)	**$ (43,662)**	$ (42,775)

(1) Comprises FVO deposits of $5,947 million (2016: $3,281 million), bifurcated embedded derivative liabilities of $596 million (2016: $203 million), FVO other liabilities of $9 million (2016: $11 million), and other financial liabilities measured at fair value of $126 million (2016: $135 million).

Transfers between levels in the fair value hierarchy are deemed to have occurred at the beginning of the quarter in which the transfer occurred. Transfers between levels can occur as a result of additional or new information regarding valuation inputs and changes in their observability. During the year, we transferred nil of trading securities (2016: $548 million) and $405 million of securities sold short (2016: $599 million) from Level 1 to Level 2 due to reduced observability in the inputs used to value these securities. In addition, transfers between Level 2 and Level 3 were made during 2017 and 2016 as there were changes in the extent to which non-observable inputs have a significant impact on the fair value of these instruments or there were changes in the observability of one or more inputs that significantly impact their fair value.

The net loss recognized in the consolidated statement of income on the financial instruments, for which fair value was estimated using valuation techniques requiring non-observable market inputs, for the year was $5 million (2016: net gain of $33 million; 2015: net gain of $122 million).

The following table presents the changes in fair value of financial assets and liabilities in Level 3. These instruments are measured at fair value utilizing non-observable market inputs. We often hedge positions with offsetting positions that may be classified in a different level. As a result, the gains and losses for assets and liabilities in the Level 3 category presented in the table below do not reflect the effect of offsetting gains and losses on the related hedging instruments that are classified in Level 1 and Level 2.

		Net gains/(losses) included in income									
$ millions, for the year ended October 31	Opening balance	Realized [1]	Unrealized [1] [2]	Net unrealized gains (losses) included in OCI	Transfer in to Level 3	Transfer out of Level 3	Purchases [3]	Issuances	Sales	Settlements	Closing balance
2017											
Trading securities											
Corporate equity	**$ 40**	**$ –**	**$ 4**	**$ –**	**$ –**	**$ –**	**$ –**	**$ –**	**$ –**	**$ (12)**	**$ 32**
Mortgage- and asset-backed	**496**	**2**	**(3)**	**–**	**–**	**–**	**–**	**–**	**–**	**(492)**	**3**
Trading loans											
Business and government	**–**	**–**	**1**	**–**	**–**	**–**	**13**	**101**	**(8)**	**(4)**	**103**
AFS securities											
Corporate equity	**344**	**71**	**(10)**	**(46)**	**–**	**–**	**40**	**27**	**(137)**	**–**	**289**
Corporate debt	**5**	**–**	**(1)**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**4**
Mortgage- and asset-backed	**1,947**	**5**	**–**	**(5)**	**–**	**–**	**653**	**–**	**–**	**(926)**	**1,674**
FVO securities											
Asset-backed	**94**	**3**	**8**	**–**	**–**	**–**	**–**	**–**	**–**	**(11)**	**94**
Derivative assets											
Interest rate	**31**	**–**	**(2)**	**–**	**–**	**–**	**1**	**–**	**–**	**(2)**	**28**
Credit	**140**	**(11)**	**1**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**130**
Equity	**24**	**–**	**19**	**–**	**6**	**(19)**	**21**	**–**	**–**	**(13)**	**38**
Total assets	**$ 3,121**	**$ 70**	**$ 17**	**$ (51)**	**$ 6**	**$ (19)**	**$ 728**	**$ 128**	**$ (145)**	**$ (1,460)**	**$ 2,395**
Deposits and other liabilities [4]	**$ (506)**	**$ –**	**$ (101)**	**$ –**	**$ (15)**	**$ 65**	**$ –**	**$ (191)**	**$ –**	**$ 379**	**$ (369)**
Derivative instruments											
Interest rate	**(35)**	**–**	**14**	**–**	**–**	**1**	**–**	**–**	**–**	**–**	**(20)**
Credit	**(197)**	**20**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**29**	**(148)**
Equity	**(42)**	**–**	**(25)**	**–**	**(41)**	**35**	**–**	**(22)**	**–**	**18**	**(77)**
Total liabilities	**$ (780)**	**$ 20**	**$ (112)**	**$ –**	**$ (56)**	**$ 101**	**$ –**	**$ (213)**	**$ –**	**$ 426**	**$ (614)**
2016											
Trading securities											
Corporate equity	$ 46	$ –	$ 3	$ –	$ –	$ –	$ 4	$ –	$ –	$ (13)	$ 40
Mortgage- and asset-backed	565	7	27	–	–	–	–	–	–	(103)	496
AFS securities											
Corporate equity	431	67	(27)	(38)	–	–	35	–	(124)	–	344
Corporate debt	6	–	(1)	–	–	–	–	–	–	–	5
Mortgage- and asset-backed	1,604	4	–	(4)	–	–	1,156	–	(4)	(809)	1,947
FVO securities											
Asset-backed	111	5	(1)	–	–	–	–	–	–	(21)	94
Derivative assets											
Interest rate	26	(1)	–	–	–	–	6	–	–	–	31
Credit	165	(38)	13	–	–	–	–	–	–	–	140
Equity	1	–	7	–	–	–	16	–	–	–	24
Total assets	$ 2,955	$ 44	$ 21	$ (42)	$ –	$ –	$ 1,217	$ –	$ (128)	$ (946)	$ 3,121
Deposits and other liabilities [4]	$ (474)	$ (21)	$ (36)	$ –	$ (7)	$ 3	$ –	$ (51)	$ 1	$ 79	$ (506)
Derivative instruments											
Interest rate	(26)	–	(2)	–	–	–	–	(7)	–	–	(35)
Credit	(244)	36	(6)	–	–	–	–	–	–	17	(197)
Equity	(27)	–	(3)	–	(1)	–	–	(11)	–	–	(42)
Total liabilities	$ (771)	$ 15	$ (47)	$ –	$ (8)	$ 3	$ –	$ (69)	$ 1	$ 96	$ (780)

(1) Includes foreign currency gains and losses.
(2) Comprises unrealized gains and losses relating to these assets and liabilities held at the end of the reporting year.
(3) Includes securities of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(4) Includes FVO deposits of $40 million (2016: $318 million) and net bifurcated embedded derivative liabilities of $329 million (2016: $188 million).

Quantitative information about significant non-observable inputs

Valuation techniques using one or more non-observable inputs are used for a number of financial instruments. The following table discloses the valuation techniques and quantitative information about the significant non-observable inputs used in Level 3 financial instruments:

				Range of inputs	
$ millions, as at October 31	2017	Valuation techniques	Key non-observable inputs	Low	High
Trading securities					
Corporate equity	$ 32	Net asset value	Net asset value	n/a	n/a
Mortgage- and asset-backed	3	Market proxy or direct broker quote	Market proxy or direct broker quote	– %	6.5 %
AFS securities					
Corporate equity					
Limited partnerships	203	Adjusted net asset value (1)	Net asset value	n/a	n/a
Private companies	86	Valuation multiple	Earnings multiple	11.0	11.0
			Revenue multiple	3.8	3.8
		Discounted cash flow	Discount rate	15.3 %	38.1 %
Corporate debt	4	Discounted cash flow	Discount rate	30.0 %	30.0 %
Asset-backed	1,674	Discounted cash flow	Credit spread	0.8 %	2.4 %
Trading loans					
Business and government	103	Discounted cash flow	Discount rate	2.5 %	5.7 %
FVO securities					
Asset-backed	94	Market proxy or direct broker quote	Market proxy or direct broker quote	75.0 %	88.0 %
Derivative instruments					
Interest rate	28	Proprietary model (2)	n/a	n/a	n/a
		Option model	Market volatility	17.9 %	39.3 %
Credit	130	Market proxy or direct broker quote	Market proxy or direct broker quote	24.1 %	24.1 %
		Discounted cash flow	Default rate	4.0 %	4.0 %
			Recovery rate	50.0 %	70.0 %
			Prepayment rate	20.0 %	20.0 %
			Credit spread (3)	– %	1.1 %
Equity	38	Option model	Market volatility	13.4 %	13.4 %
			Market correlation	39.0 %	81.3 %
Total assets	$ 2,395				
Deposits and other liabilities	$ (369)	Option model	Market volatility	4.3 %	32.6 %
			Market correlation	(100.0) %	100.0 %
Derivative instruments					
Interest rate	(20)	Proprietary model (2)	n/a	n/a	n/a
Credit	(148)	Market proxy or direct broker quote	Market proxy or direct broker quote	– %	24.1 %
		Discounted cash flow	Default rate	4.0 %	4.0 %
			Recovery rate	50.0 %	70.0 %
			Prepayment rate	20.0 %	20.0 %
			Credit spread	– %	1.1 %
Equity	(77)	Option model	Market correlation	19.7 %	75.1 %
Total liabilities	$ (614)				

(1) Adjusted net asset value is determined using reported net asset values obtained from the fund manager or general partner of the LP and may be adjusted for current market levels where appropriate.
(2) Using valuation techniques which we consider to be non-observable.
(3) Excludes financial guarantors.
n/a Not applicable.

Sensitivity of Level 3 financial assets and liabilities

The following section describes the significant non-observable inputs identified in the table above, the inter-relationships between those inputs and the sensitivity of fair value to changes in those inputs. We performed our Level 3 sensitivity analysis on an individual instrument basis.

The structured credit positions carried on the consolidated balance sheet at fair value are within trading securities, FVO securities, FVO structured note liability within deposits and other liabilities, and derivatives. These fair values are generally derived from and are sensitive to non-observable inputs, including indicative broker quotes and internal models that utilize default rates, recovery rates, prepayment rates and credit spreads. Indicative broker quotes are derived from proxy pricing in an inactive market or from the brokers' internal valuation models. These quotes are used to value our trading and FVO securities, FVO structured note liability and derivatives. A significant increase in the indicative broker prices or quotes for structured credit securities would result in an increase in the fair value of our Level 3 securities and note liability but a decrease in the fair value of those credit derivatives that referenced the securities.

The impact of adjusting the Level 3 inputs noted above to reasonably possible alternatives would not have a significant impact on the net fair value in respect of financial instruments carried at fair value in our structured credit run-off business.

The fair value of our investments in private companies is derived from applying applicable valuation multiples to financial indicators such as revenue or earnings. Earnings multiples or revenue multiples represent the ratios of earnings or revenue to enterprise value and are often used as non-observable inputs in the fair value measurement of our investments in private companies. We apply professional judgment in our selection of the multiple from comparable listed companies, which is then further adjusted for company-specific factors. The fair value of private companies is sensitive to changes in the multiple we apply. A significant increase in earnings multiples or revenue multiples generally results in an increase in the fair value of our investments in private companies. By adjusting the multiple and implied volatility within a reasonably possible range, the aggregate fair value of our investments in private companies would increase by $10 million or decrease by $8 million (2016: increase by $16 million or decrease by $9 million).

The fair value of our LPs is determined based on the net asset value provided by the fund managers, adjusted as appropriate. The fair value of LPs is sensitive to changes in the net asset value and by adjusting the net asset value within a reasonably possible range, the aggregate fair value of our LPs would increase or decrease by $22 million (2016: $24 million).

The fair value of our ABS is determined based on non-observable credit spreads. A significant increase in credit spreads generally results in a decrease in the fair value of our Level 3 ABS. By adjusting the credit spreads within a reasonably possible range, the fair value of our ABS would increase or decrease by $2 million (2016: $2 million).

While our standalone derivatives are recorded as derivative assets or derivative liabilities, our bifurcated Level 3 embedded derivatives are recorded within deposits and other liabilities. The determination of the fair value of certain bifurcated embedded derivatives and certain standalone derivatives requires significant assumptions and judgment to be applied to both the inputs and the valuation techniques employed. These derivatives are sensitive to long-dated market volatility and correlation inputs, which we consider to be non-observable. Market volatility is a measure of the anticipated future variability of a market price and is an important input for pricing options, which are inherent in many of our Level 3 derivatives. A higher market volatility generally results in a higher option price, with all else held constant, due to the higher probability of obtaining a greater return from the option, and results in an increase in the fair value of our Level 3 derivatives. Correlation inputs are used to value those derivatives where the payout is dependent upon more than one market price. For example, the payout of an equity basket option is based upon the performance of a basket of stocks, and the inter-relationships between the price movements of those stocks. A positive correlation implies that two inputs tend to change the fair value in the same direction, while a negative correlation implies that two inputs tend to change the fair value in the opposite direction. Changes in market correlation could result in an increase or a decrease in the fair value of our Level 3 derivatives and embedded derivatives. By adjusting the non-observable inputs by reasonably alternative amounts, the fair value of our Level 3 standalone derivatives and embedded derivatives would increase by $58 million or decrease by $56 million (2016: increase by $23 million or decrease by $24 million).

FVO assets

FVO securities include certain debt securities and reverse repos that were designated as FVO on the basis of being managed together with derivatives to eliminate or significantly reduce financial risks.

FVO liabilities

FVO deposits and other liabilities include:

- Certain business and government deposit liabilities and certain secured borrowings that are economically hedged with derivatives and other financial instruments, and certain financial liabilities that have one or more embedded derivatives that significantly modify the cash flows of the host liability but are not bifurcated from the host instrument; and
- Our mortgage commitments to retail clients to provide mortgages at fixed rates that are economically hedged with derivatives and other financial instruments.

The carrying value of our FVO securities and FVO reverse repos represent our maximum exposure to credit risk related to these FVO assets. The change in fair value attributable to change in credit risk of these FVO assets during the year is insignificant (2016: insignificant). The fair value of a FVO liability reflects the credit risk relating to that liability. For those FVO liabilities for which we believe changes in our credit risk would impact the fair value from the note holders' perspective, the related fair value changes were recognized in OCI. Changes in fair value attributable to changes in our own credit are measured as the difference between: (i) the period over period change in the present value of the expected cash flows using a discount curve adjusted for our own credit; and (ii) the period over period change in the present value of the same expected cash flows using a discount curve based on the benchmark curve adjusted for our own credit as implied at inception of the FVO liability. The pre-tax impact of changes in CIBC's own credit risk on our FVO liabilities were losses of $14 million for the year, and $14 million cumulatively.

The estimated contractual amount payable at maturity of FVO deposits, which is based on the par value and the intrinsic value of the applicable embedded derivatives, is $253 million higher (2016: $152 million higher) than its fair value.

Note 3 | Significant transactions

2017

Acquisition of PrivateBancorp, Inc.

On June 23, 2017, we completed the acquisition of PrivateBancorp, Inc. (PrivateBancorp) and its subsidiary, The PrivateBank and Trust Company (The PrivateBank, subsequently rebranded as CIBC Bank USA) for total consideration of US$5.0 billion (C$6.6 billion). This acquisition expands our U.S. presence which diversifies earnings and strengthens our platform for long-term growth. The acquisition also creates a platform for CIBC to deliver high-quality middle market commercial and private banking capabilities, which advances our client-focused strategy.

We acquired 100% of the outstanding share capital of PrivateBancorp for a final transaction value of US$61.00 per PrivateBancorp share. The following summarizes the total purchase consideration of $6.6 billion as of the acquisition date:

$ millions, as at June 23, 2017	
Issuance of CIBC common shares [1]	$ 3,443
Cash [2]	2,770
Estimated obligation payable to dissenting shareholders [3]	327
Issuance of replacement equity-settled awards [4]	72
Total purchase consideration	$ 6,612

(1) 32,137,402 CIBC common shares were issued at a price of US$80.95 per share to satisfy the equity component of the merger consideration of 0.4176 of a CIBC common share per PrivateBancorp share.
(2) US$2.1 billion in cash was transferred to satisfy the cash component of the merger consideration of US$27.20 per PrivateBancorp share.
(3) Former PrivateBancorp shareholders who validly exercised their dissent and appraisal rights under Delaware law did not receive the merger consideration and instead filed petitions against PrivateBancorp seeking a payment equal to the "fair value" of their PrivateBancorp shares as determined by a Delaware court following an appraisal proceeding. In such a proceeding, a Delaware court may require a purchaser to pay to the dissenting shareholders an amount more or less than, or the same as, the merger consideration. Dissenting shareholders are entitled to receive interest of 5% plus the Federal Reserve discount rate compounded quarterly from the effective date of the transaction until any appraisal proceeding is adjudicated. As at June 23, 2017, CIBC estimated the fair value of the obligation payable to dissenting shareholders using the final transaction value of US$61.00 per PrivateBancorp share. In November 2017, CIBC and the petitioners entered into an agreement to settle the dispute, subject to the court's entry of an order dismissing the consolidated petition. See Note 23 for additional details.
(4) Equity-settled share-based awards issued to employees of PrivateBancorp and The PrivateBank consisted of 190,789 replacement restricted shares and 988,544 replacement stock options with a fair value of US$54 million relating to the portion of these awards attributable to pre-acquisition service. The fair values of the restricted shares and the stock options were estimated based on the final transaction value of US$61.00 per PrivateBancorp share.

The following summarizes the preliminary fair values of identifiable assets acquired and liabilities assumed at the acquisition date:

$ millions, as at June 23, 2017	
Fair values of assets acquired	
Cash and non-interest-bearing deposits with banks	$ 280
Interest-bearing deposits with banks	441
AFS and HTM securities	5,577
Loans [1]	20,642
Other assets	33
Intangible assets [2]	370
Total fair value of identifiable assets acquired	27,343
Fair values of liabilities assumed	
Deposits	24,059
Other liabilities	496
Total fair value of identifiable liabilities assumed	24,555
Fair value of identifiable net assets acquired	2,788
Goodwill	3,824
Total purchase consideration	$ 6,612

(1) The fair value for loans reflects estimates of incurred and expected future credit losses at the acquisition date and interest rate premiums or discounts relative to prevailing market rates. The gross principal amount is $20.9 billion.
(2) Intangible assets include core deposits, customer relationships, and software. Core deposit and customer relationship intangibles arising from the acquisition are amortized on a straight-line basis over estimated useful lives which range from 3-10 years.

The goodwill recognized of $3.8 billion primarily reflects the expected growth of our combined U.S. Commercial Banking and Wealth Management businesses, the ability to cross sell products between strategic business units (SBUs), and expected synergies from the integration of certain technology and operational platforms. Goodwill is not expected to be deductible for tax purposes. The estimates for the fair values of the assets acquired and liabilities assumed are subject to refinement and therefore may be retroactively adjusted to reflect new information obtained about facts and circumstances that existed as at the acquisition date during the measurement period.

All results of operations are included in our U.S. Commercial Banking and Wealth Management SBU. Since the acquisition date, our acquisition of PrivateBancorp has increased our consolidated revenue and net income by $448 million and $96 million, respectively. If our acquisition of PrivateBancorp had occurred on November 1, 2016 it would have increased our consolidated revenue and net income by $1,228 million and $304 million, respectively. These amounts exclude transaction and integration costs, which are primarily recognized in non-interest expenses and included in Corporate and Other.

Acquisition of Geneva Advisors

On August 31, 2017, we completed the acquisition of Geneva Advisors, LLC (Geneva Advisors), an independent private wealth management firm, for total estimated consideration of US$179 million (C$224 million). This acquisition will expand CIBC's private wealth management client base and investment management capabilities in the U.S. The purchase price consisted of $39 million of cash consideration and 1,204,344 CIBC common shares valued at $126 million, plus estimated contingent consideration of $59 million to be paid over the next three years subject to future performance conditions being met. Contingent consideration of up to US$65 million may ultimately be payable dependent upon the level of achievement of future performance conditions.

The following summarizes the preliminary fair values of identifiable assets acquired and liabilities assumed at the acquisition date:

$ millions, as at August 31, 2017	
Cash	$ 12
Other assets	2
Intangible assets [1]	102
Other liabilities	(12)
Fair value of identifiable net assets acquired	104
Goodwill [2]	120
Total purchase consideration	$ 224

(1) Intangible assets include customer relationships and contract-based intangibles. The customer relationship intangible asset arising from the acquisition is amortized on a straight-line basis over an estimated useful life of 7 years. Contract-based intangibles arising from the acquisition are amortized on a straight-line basis over estimated useful lives which range from 5 to 9 years.
(2) Goodwill is expected to be deductible for tax purposes.

The estimates for the fair values of the assets acquired and liabilities assumed are subject to refinement and therefore may be retroactively adjusted to reflect new information obtained about facts and circumstances that existed as at the acquisition date during the measurement period.

All results of operations are included in our U.S. Commercial Banking and Wealth Management SBU. Transaction and integration costs are included in Corporate and Other.

Launch of Simplii Financial and wind-down of President's Choice Financial consumer banking offer

On August 16, 2017, we announced both the launch of Simplii Financial and the wind-down of our President's Choice Financial branded consumer banking offer with Loblaw Companies Limited (Loblaw). Under the terms of the wind-down agreement negotiated with Loblaw, CIBC is required to pay certain fees to Loblaw. In addition, as a result of the agreement, we incurred ancillary asset impairment and severance costs, as well as ongoing project-related costs. In aggregate, CIBC incurred fees and charges of approximately $98 million ($71 million after-tax) in the fourth quarter of 2017.

Lease of new premises

On April 12, 2017, we announced that we had entered into a lease agreement to become the anchor tenant at a new office complex in downtown Toronto. We have agreed to lease up to 1.75 million square feet of total office space in two buildings to be constructed at the site within the next six years. The aggregate future minimum lease commitments related to the lease, which begins in 2020, are $2.3 billion.

Sale and lease back of certain retail properties

During the first quarter, we sold and leased back 89 retail properties located mainly in Ontario and British Columbia, and recognized a gain of $299 million ($245 million after-tax) on proceeds of $390 million in our Canadian Personal and Small Business Banking SBU. The gain is included in Non-interest income – Other.

2016

Sale of equity investment

We completed the sale of American Century Investments (ACI) to Nomura Holding America Inc. (Nomura) on May 19, 2016 for proceeds of US$1,045 million. As a result, we recognized a gain on sale, net of related transaction costs, of $428 million ($383 million after-tax), in Corporate and Other[1] which included cumulative foreign exchange translation gains, net of designated hedges, of $155 million ($141 million after-tax) which were reclassified from AOCI.

Our minority investment in ACI was classified as held for sale and measured at the lower of its carrying value and fair value less costs to sell upon the announcement on December 21, 2015 that we had entered into a definitive agreement with Nomura to sell our minority investment. Prior to May 19, 2016, the carrying amount of our held for sale investment in ACI was included within Investments in equity-accounted associates and joint ventures. We also ceased recognition of income from equity-accounted associates relating to ACI following its classification as held for sale on the date of the announcement.

(1) Certain information has been reclassified to conform to the presentation adopted in the current year.

Note 4 | Securities

$ millions, as at October 31	Residual term to contractual maturity												2017		2016	
	Within 1 year		1 to 5 years		5 to 10 years		Over 10 years		No specific maturity		Total [1]		Total	
	Carrying value	Yield [2]	Carrying value	Yield [2]	Carrying value	Yield [2]	Carrying value	Yield [2]	Carrying value	Yield [2]	Carrying value	Yield [2]	Carrying value	Yield [2]
AFS securities														
Securities issued or guaranteed by:														
Canadian federal government	$ 167	0.9 %	$ 4,850	1.7 %	$ 456	2.2 %	$ –	– %	$ –	– %	$ 5,473	1.7 %	$ 7,055	1.1 %
Other Canadian governments	1,173	1.2	2,433	2.0	1,660	2.5	–	–	–	–	5,266	2.0	5,668	1.5
U.S. Treasury and agencies	3,822	0.9	5,879	1.4	708	1.9	22	2.1	–	–	10,431	1.3	7,827	0.8
Other foreign governments	2,297	1.6	1,446	2.3	173	4.7	228	5.1	–	–	4,144	2.2	3,324	2.4
Mortgage-backed securities [3]	1,668	1.0	2,448	1.5	453	2.3	2,415	1.9	–	–	6,984	1.6	4,627	0.8
Asset-backed securities	59	3.1	804	1.8	810	2.3	561	1.9	–	–	2,234	2.0	2,535	1.7
Corporate public debt	1,871	1.4	3,164	1.7	117	4.3	–	–	–	–	5,152	1.6	5,838	1.2
Corporate private debt	4	10.0	–	–	–	–	–	–	–	–	4	10.0	5	10.0
Total debt securities	11,061		21,024		4,377		3,226		–		39,688		36,879	
Corporate public equity	–	–	–	–	–	–	–	–	32	n/m	32	n/m	34	n/m
Corporate private equity	–	–	–	–	–	–	–	–	437	n/m	437	n/m	340	n/m
Total equity securities	–		–		–		–		469		469		374	
Total AFS securities	$ 11,061		$ 21,024		$ 4,377		$ 3,226		$ 469		$ 40,157		$ 37,253	
HTM Securities														
Securities issued or guaranteed by:														
U.S. Treasury and agencies	$ –		$ –		$ –		$ –		$ –		$ –		$ –	
Other foreign governments	1		–		–		–		–		1		–	
Mortgage-backed securities [4]	5		134		759		1,528		–		2,426		–	
Corporate public debt	–		4		4		–		–		8		–	
Total HTM securities	$ 6		$ 138		$ 763		$ 1,528		$ –		$ 2,435		$ –	
Trading securities														
Securities issued or guaranteed by:														
Canadian federal government	$ 1,996		$ 1,792		$ 1,612		$ 1,105		$ –		$ 6,505		$ 3,890	
Other Canadian governments	1,189		1,023		883		3,884		–		6,979		6,552	
U.S. Treasury and agencies	39		261		1,372		33		–		1,705		194	
Other foreign governments	127		78		29		29		–		263		145	
Mortgage-backed securities [5]	340		1,340		48		4		–		1,732		1,045	
Asset-backed securities	74		136		2		3		–		215		619	
Corporate public debt	1,011		812		312		121		–		2,256		1,853	
Corporate public equity	–		–		–		–		31,024		31,024		35,617	
Total trading securities	$ 4,776		$ 5,442		$ 4,258		$ 5,179		$ 31,024		$ 50,679		$ 49,915	
FVO securities														
Securities issued or guaranteed by:														
Other Canadian governments	$ –		$ –		$ 54		$ –		$ –		$ 54		$ 59	
Asset-backed securities	–		–		–		94		–		94		94	
Corporate public debt	–		–		–		–		–		–		102	
Total FVO securities	$ –		$ –		$ 54		$ 94		$ –		$ 148		$ 255	
Total securities [6]	$ 15,843		$ 26,604		$ 9,452		$ 10,027		$ 31,493		$ 93,419		$ 87,423	

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Represents the weighted-average yield, which is determined by applying the weighted average of the yields of individual fixed income securities.
(3) Includes securities backed by mortgages insured by the Canada Mortgage and Housing Corporation (CMHC), with amortized cost of $1,343 million (2016: $971 million) and fair value of $1,343 million (2016: $975 million); securities issued by Federal National Mortgage Association (Fannie Mae), with amortized cost of $1,895 million (2016: $1,521 million) and fair value of $1,891 million (2016: $1,521 million); securities issued by Federal Home Loan Mortgage Corporation (Freddie Mac), with amortized cost of $2,703 million (2016: $849 million) and fair value of $2,700 million (2016: $848 million); and securities issued by Government National Mortgage Association, a U.S. government corporation (Ginnie Mae), with amortized cost of $1,051 million (2016: $1,248 million) and fair value of $1,050 million (2016: $1,246 million).
(4) Includes securities backed by securities issued by Fannie Mae, with amortized cost of $948 million (2016: nil) and fair value of $943 million (2016: nil); securities issued by Freddie Mac, with amortized cost of $1,337 million (2016: nil) and fair value of $1,329 million (2016: nil); and securities issued by Ginnie Mae, with amortized cost of $141 million (2016: nil) and fair value of $141 million (2016: nil).
(5) Includes securities backed by mortgages insured by the CMHC of $1,690 million (2016: $986 million).
(6) Includes securities denominated in U.S. dollars with carrying value of $40.3 billion (2016: $27.4 billion) and securities denominated in other foreign currencies with carrying value of $1,491 million (2016: $1,253 million).
n/mNot meaningful.

Fair value of AFS securities

$ millions, as at October 31	2017 [1]				2016			
	Amortized cost	**Gross unrealized gains**	**Gross unrealized losses**	**Fair value**	Amortized cost	Gross unrealized gains	Gross unrealized losses	Fair value
Securities issued or guaranteed by:								
Canadian federal government	**$ 5,439**	**$ 35**	**$ (1)**	**$ 5,473**	$ 7,028	$ 28	$ (1)	$ 7,055
Other Canadian governments	**5,236**	**30**	**–**	**5,266**	5,646	25	(3)	5,668
U.S. Treasury and agencies	**10,459**	**6**	**(34)**	**10,431**	7,820	9	(2)	7,827
Other foreign governments	**4,147**	**12**	**(15)**	**4,144**	3,326	15	(17)	3,324
Mortgage-backed securities	**6,992**	**5**	**(13)**	**6,984**	4,626	6	(5)	4,627
Asset-backed securities	**2,236**	**1**	**(3)**	**2,234**	2,533	3	(1)	2,535
Corporate public debt	**5,163**	**8**	**(19)**	**5,152**	5,842	12	(16)	5,838
Corporate private debt	**5**	**–**	**(1)**	**4**	5	–	–	5
Corporate public equity [2]	**13**	**19**	**–**	**32**	10	24	–	34
Corporate private equity	**351**	**86**	**–**	**437**	211	132	(3)	340
	$ 40,041	**$ 202**	**$ (86)**	**$ 40,157**	$ 37,047	$ 254	$ (48)	$ 37,253

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Includes restricted stock.

For AFS securities where the fair value is less than the amortized cost, the following table presents fair value and associated unrealized losses for periods less than 12 months and 12 months or longer:

	2017 [1]						2016					
	Less than 12 months		**12 months or longer**		**Total**		Less than 12 months		12 months or longer		Total	
$ millions, as at October 31	**Fair value**	**Gross unrealized losses**	**Fair value**	**Gross unrealized losses**	**Fair value**	**Gross unrealized losses**	Fair value	Gross unrealized losses	Fair value	Gross unrealized losses	Fair value	Gross unrealized losses
Securities issued or guaranteed by:												
Canadian federal government	**$ 19**	**$ –**	**$ 33**	**$ (1)**	**$ 52**	**$ (1)**	$ 247	$ –	$ 608	$ (1)	$ 855	$ (1)
Other Canadian governments	**193**	**–**	**5**	**–**	**198**	**–**	90	–	538	(3)	628	(3)
U.S. Treasury and agencies	**6,631**	**(27)**	**787**	**(7)**	**7,418**	**(34)**	804	(1)	1,121	(1)	1,925	(2)
Other foreign governments	**1,753**	**(4)**	**367**	**(11)**	**2,120**	**(15)**	756	(3)	461	(14)	1,217	(17)
Mortgage-backed securities	**4,146**	**(11)**	**764**	**(2)**	**4,910**	**(13)**	993	(2)	778	(3)	1,771	(5)
Asset-backed securities	**622**	**(1)**	**623**	**(2)**	**1,245**	**(3)**	378	–	502	(1)	880	(1)
Corporate public debt	**1,672**	**(8)**	**765**	**(11)**	**2,437**	**(19)**	1,097	(4)	1,624	(12)	2,721	(16)
Corporate private debt	**4**	**(1)**	**–**	**–**	**4**	**(1)**	–	–	–	–	–	–
Corporate public equity	**–**	**–**	**–**	**–**	**–**	**–**	–	–	–	–	–	–
Corporate private equity	**5**	**–**	**–**	**–**	**5**	**–**	10	(1)	15	(2)	25	(3)
	$ 15,045	**$ (52)**	**$ 3,344**	**$ (34)**	**$ 18,389**	**$ (86)**	$ 4,375	$ (11)	$ 5,647	$ (37)	$ 10,022	$ (48)

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

As at October 31, 2017, the amortized cost of 988 AFS securities that are in a gross unrealized loss position (2016: 240 securities) exceeded their fair value by $86 million (2016: $48 million). The securities that have been in a gross unrealized loss position for more than a year include 91 AFS securities (2016: 81 securities), with a gross unrealized loss of $34 million (2016: $37 million). We have determined that these AFS securities were not impaired.

The table below presents realized gains, losses, and write-downs on AFS securities:

$ millions, for the year ended October 31	**2017**	2016	2015
Realized gains	**$ 178**	$ 108	$ 163
Realized losses	**(25)**	(8)	(20)
Impairment write-downs			
Equity securities	**(10)**	(27)	(5)
	$ 143	$ 73	$ 138

HTM securities [1]

As at October 31, 2017, we had HTM securities carried at amortized cost with a carrying value of $2,435 million and a fair value of $2,422 million (2016: nil carrying value and nil fair value). HTM securities measured at amortized cost are required to be assessed for impairment on a periodic basis. Impairment exists when, in management's opinion, there is no longer reasonable assurance that the full amount of principal and interest can be collected. As at October 31, 2017, we have determined that these HTM securities were not impaired. During the year, no HTM securities were sold.

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

Note 5 | Loans[1][2]

$ millions, as at October 31	2017 [3]					2016				
	Gross amount	Individual allowance	Collective allowance	Total allowance	Net total	Gross amount	Individual allowance	Collective allowance	Total allowance	Net total
Residential mortgages [4]	$ 207,271	$ 2	$ 201	$ 203	$ 207,068	$ 187,298	$ 1	$ 220	$ 221	$ 187,077
Personal [5]	40,937	7	488	495	40,442	38,041	8	489	497	37,544
Credit card	12,378	–	386	386	11,992	12,332	–	386	386	11,946
Business and government [4]	97,766	183	351	534	97,232	71,437	249	338	587	70,850
	$ 358,352	$ 192	$ 1,426	$ 1,618	$ 356,734	$ 309,108	$ 258	$ 1,433	$ 1,691	$ 307,417

(1) Loans are net of unearned income of $376 million (2016: $346 million).
(2) Includes gross loans of $53.1 billion (2016: $35.6 billion) denominated in U.S. dollars and $4.8 billion (2016: $4.2 billion) denominated in other foreign currencies.
(3) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(4) Includes trading loans of $12 million (2016: nil) and $14,010 million (2016: $6,640 million) in residential mortgages and business and government, respectively.
(5) Includes $47 million (2016: $51 million) related to loans provided to certain individuals while employed by CIBC to finance a portion of their participation in funds which make private equity investments on a side-by-side basis with CIBC and its affiliates. These loans are secured by the borrowers' interest in the funds. Of the total amount outstanding, $47 million (2016: $50 million) relates to individuals who are no longer employed by CIBC.

Allowance for credit losses[1]

Individual allowance

$ millions, as at or for the year ended October 31	Residential mortgages			Personal			Business and government			Total		
	2017	2016	2015	2017	2016	2015	2017	2016	2015	2017	2016	2015
Balance at beginning of year	$ 1	$ 1	$ 1	$ 8	$ 7	$ 9	$ 249	$ 303	$ 328	$ 258	$ 311	$ 338
Provision for (reversal of) credit losses	–	–	–	–	1	(1)	61	187	77	61	188	76
Write-offs	–	–	–	–	–	(1)	(107)	(231)	(142)	(107)	(231)	(143)
Recoveries	–	–	–	–	–	–	15	8	4	15	8	4
Interest income on impaired loans	–	–	–	–	–	–	(18)	(20)	(8)	(18)	(20)	(8)
Foreign exchange and other	1	–	–	(1)	–	–	(17)	2	44	(17)	2	44
Balance at end of year	$ 2	$ 1	$ 1	$ 7	$ 8	$ 7	$ 183	$ 249	$ 303	$ 192	$ 258	$ 311

Collective allowance

$ millions, as at or for the year ended October 31	Residential mortgages			Personal			Credit card			Business and government			Total		
	2017	2016	2015	2017	2016	2015	2017	2016	2015	2017	2016	2015	2017	2016	2015
Balance at beginning of year	$ 220	$ 235	$ 208	$ 489	$ 461	$ 451	$ 386	$ 338	$ 386	$ 460	$ 417	$ 353	$ 1,555	$ 1,451	$ 1,398
Provision for credit losses	39	34	37	308	319	263	410	452	322	11	58	73	768	863	695
Write-offs	(38)	(34)	(32)	(359)	(336)	(302)	(529)	(524)	(495)	(24)	(28)	(32)	(950)	(922)	(861)
Recoveries	–	–	–	54	49	51	119	120	125	5	6	6	178	175	182
Interest income on impaired loans	(8)	(7)	(7)	–	(2)	(8)	–	–	–	–	–	–	(8)	(9)	(15)
Foreign exchange and other	(12)	(8)	29	(4)	(2)	6	–	–	–	18	7	17	2	(3)	52
Balance at end of year	$ 201	$ 220	$ 235	$ 488	$ 489	$ 461	$ 386	$ 386	$ 338	$ 470	$ 460	$ 417	$ 1,545	$ 1,555	$ 1,451
Comprises:															
Loans	$ 201	$ 220	$ 235	$ 488	$ 489	$ 461	$ 386	$ 386	$ 338	$ 351	$ 338	$ 325	$ 1,426	$ 1,433	$ 1,359
Undrawn credit facilities [2]	–	–	–	–	–	–	–	–	–	119	122	92	119	122	92

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Included in Other liabilities on the consolidated balance sheet.

Impaired loans

$ millions, as at October 31	2017				2016			
	Gross impaired	Individual allowance	Collective allowance [1]	Net impaired	Gross impaired	Individual allowance	Collective allowance [1]	Net impaired
Residential mortgages	$ 513	$ 2	$ 143	$ 368	$ 514	$ 1	$ 167	$ 346
Personal	171	7	134	30	193	8	137	48
Business and government	626	183	8	435	951	249	10	692
Total impaired loans [2][3][4]	$ 1,310	$ 192	$ 285	$ 833	$ 1,658	$ 258	$ 314	$ 1,086

(1) Includes collective allowance relating to personal, scored small business and mortgage impaired loans that are greater than 90 days delinquent. In addition, we have a collective allowance of $1,260 million (2016: $1,241 million) on balances and commitments which are not impaired.
(2) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(3) Average balance of gross impaired loans was $1,376 million (2016: $1,587 million).
(4) Foreclosed assets of $21 million (2016: $18 million) were included in Other assets on the consolidated balance sheet.

Purchased credit-impaired loans

Purchased credit-impaired loans resulting from the acquisition of The PrivateBank include Business and government and Consumer loans with outstanding unpaid principal balances of $81 million and $134 million; and fair values of $61 million and $105 million, respectively, as at October 31, 2017 and June 23, 2017 (the acquisition date).

The following table provides further details of our purchased credit-impaired loans:

$ millions, as at October 31	**2017**	2016
Unpaid principal balance [1]	**$ 81**	n/a
Credit related fair value adjustments	**(15)**	n/a
Time value of money	**(3)**	n/a
Carrying value	**63**	n/a
Individually assessed allowance	**(2)**	n/a
Carrying value net of related allowance	**$ 61**	n/a

(1) Represents principal amount owed net of write-offs since the acquisition of the loan.
n/a Not applicable.

Contractually past due loans but not impaired

This comprises loans where repayment of principal or payment of interest is contractually in arrears. The following table provides an aging analysis of the contractually past due loans:

$ millions, as at October 31	**Less than 31 days**	**31 to 90 days**	**Over 90 days**	**2017 Total** [1]	2016 Total
Residential mortgages	**$ 2,493**	**$ 872**	**$ 181**	**$ 3,546**	$ 3,262
Personal	**701**	**179**	**35**	**915**	810
Credit card	**574**	**182**	**97**	**853**	890
Business and government	**619**	**165**	**27**	**811**	363
	$ 4,387	**$ 1,398**	**$ 340**	**$ 6,125**	$ 5,325

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

During the year, gross interest income that would have been recorded if impaired loans were treated as current was $78 million (2016: $101 million), of which $23 million (2016: $27 million) was in Canada and $55 million (2016: $74 million) was outside Canada. During the year, interest recognized on impaired loans was $26 million (2016: $29 million), and interest recognized on loans before being classified as impaired was $45 million (2016: $61 million), of which $35 million (2016: $38 million) was in Canada and $10 million (2016: $23 million) was outside Canada.

Credit quality of the loans portfolio

The following tables provide the credit quality of business and government loans and acceptances and retail loans by carrying value. For details on the CIBC rating categories and PD bands, see the "Credit risk" section of the MD&A.

Net business and government loans and acceptances

$ millions, for the year ended October 31						**2017** [1]	2016
Grade	**CIBC rating**	**PD bands**	**Corporate**	**Sovereign**	**Banks**	**Total**	Total
Investment grade	00-47	0.01% – 0.38%	**$ 37,800**	**$ 1,943**	**$ 719**	**$ 40,462**	$ 39,876
Non-investment grade	51-67	0.39% – 12.11%	**38,946**	**472**	**188**	**39,606**	35,989
Watch list	70-80	12.12% – 99.99%	**745**	**–**	**–**	**745**	1,056
Default	90	100%	**257**	**–**	**–**	**257**	636
Total advanced internal ratings-based (AIRB) exposure			**$ 77,748**	**$ 2,415**	**$ 907**	**$ 81,070**	$ 77,557
Strong			**$ 765**	**$ –**	**$ –**	**$ 765**	$ 1,316
Good			**126**	**–**	**–**	**126**	124
Satisfactory			**9**	**–**	**–**	**9**	18
Weak			**–**	**–**	**–**	**–**	7
Default			**4**	**–**	**–**	**4**	4
Total slotted exposure			**$ 904**	**$ –**	**$ –**	**$ 904**	$ 1,469
Standardized exposure			**$ 23,761**	**$ 213**	**$ 451**	**$ 24,425**	$ 4,516
			$ 102,413	**$ 2,628**	**$ 1,358**	**$ 106,399**	$ 83,542
Less: collective allowance on non-impaired loans						**$ 343**	$ 328
Net business and government loans and acceptances [2]						**$ 106,056**	$ 83,214

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Includes customers' liability under acceptances of $8,824 million (2016: $12,364 million).

Net retail loans

$ millions, for the year ended October 31					**2017**	2016
Risk level	**PD bands**	**Residential mortgages**	**Personal**	**Cards**	**Total**	Total
Exceptionally low	0.01% – 0.20%	**$ 158,372**	**$ 22,384**	**$ 3,257**	**$ 184,013**	$ 171,369
Very low	0.21% – 0.50%	**22,512**	**4,107**	**1,767**	**28,386**	21,869
Low	0.51% – 2.00%	**19,223**	**6,307**	**4,031**	**29,561**	27,731
Medium	2.01% – 10.00%	**3,076**	**6,222**	**2,482**	**11,780**	11,119
High	10.01% – 99.99%	**340**	**895**	**686**	**1,921**	1,766
Default	100%	**176**	**8**	**–**	**184**	140
Total AIRB exposure		**$ 203,699**	**$ 39,923**	**$ 12,223**	**$ 255,845**	$ 233,994
Strong		**$ 104**	**$ –**	**$ –**	**$ 104**	$ 142
Good		**4**	**–**	**–**	**4**	1
Satisfactory		**12**	**–**	**–**	**12**	51
Weak		**–**	**–**	**–**	**–**	1
Default		**1**	**–**	**–**	**1**	1
Total slotted exposure		**$ 121**	**$ –**	**$ –**	**$ 121**	$ 196
Standardized exposure		**$ 3,306**	**$ 873**	**$ 155**	**$ 4,334**	$ 3,168
		$ 207,126	**$ 40,796**	**$ 12,378**	**$ 260,300**	$ 237,358
Less: collective allowance on non-impaired loans		**$ 58**	**$ 354**	**$ 386**	**$ 798**	$ 791
Net retail loans		**$ 207,068**	**$ 40,442**	**$ 11,992**	**$ 259,502**	$ 236,567

Net interest income after provision for credit losses

$ millions, for the year ended October 31	**2017** (1)	2016	2015
Interest income	**$ 13,593**	$ 12,092	$ 11,483
Interest expense	**4,616**	3,726	3,568
Net interest income	**8,977**	8,366	7,915
Provision for credit losses	**829**	1,051	771
Net interest income after provision for credit losses	**$ 8,148**	$ 7,315	$ 7,144

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

Note 6 | Structured entities and derecognition of financial assets

Structured entities

SEs are entities that have been designed so that voting or similar rights are not the dominant factor in deciding who controls the entity, such as when any voting rights relate to administrative tasks only and the relevant activities are directed by means of contractual arrangements. SEs are entities that are created to accomplish a narrow and well-defined objective. CIBC is involved with various types of SEs for which the business activities include securitization of financial assets, asset-backed financings, and asset management.

We consolidate an SE when the substance of the relationship indicates that we control the SE.

Consolidated structured entities

We consolidate the following SEs:

Multi-seller conduit

We sponsor a consolidated multi-seller conduit in Canada that purchases financial assets from clients and finances the purchases by issuing ABS. The sellers to the conduit continue to service the assets and are exposed to credit losses realized on these assets through the provision of over-collateralization. We hold all of the outstanding ABS.

Residential mortgage securitization trusts

Clear Trust (Clear) originated Canadian insured prime mortgages and uninsured Near-Prime/Alt-A mortgages. Clear sold these mortgages to Crisp Trust (Crisp). Crisp funded the purchase of these mortgages through the issuance of commercial paper to investors, which was secured by the mortgages. We hold all of the outstanding commercial paper and the mortgages are presented as Residential mortgages within Loans on the consolidated balance sheet. This program is in run-off.

Credit card securitization trusts

We sell an ownership interest in a revolving pool of credit card receivables generated under certain credit card accounts to Cards II Trust (Cards II). Cards II purchases a proportionate share of credit card receivables on certain credit card accounts within designated portfolios, with the proceeds received from the issuance of notes.

Our credit card securitizations are revolving securitizations, with credit card receivable balances fluctuating from month to month as credit card clients repay their balances and new receivables are generated.

The notes are presented as Secured borrowings within Deposits on the consolidated balance sheet.

As at October 31, 2017, $3.0 billion of credit card receivable assets with a fair value of $3.0 billion (2016: $4.2 billion with a fair value of $4.2 billion) supported associated funding liabilities of $3.0 billion with a fair value of $3.0 billion (2016: $4.2 billion with a fair value of $4.2 billion).

Covered bond guarantor

We have two covered bond programs, structured and legislative. Covered bonds are full recourse on-balance sheet obligations that are also fully collateralized by assets over which bondholders enjoy a priority claim in the event of CIBC's insolvency. Under the structured program, we transfer a pool of CMHC insured mortgages to the CIBC Covered Bond Guarantor Limited Partnership that warehouses these mortgages and serves as a guarantor to bondholders for payment of interest and principal. Under the legislative program, we transfer a pool of conventional uninsured mortgages to the CIBC Covered Bond (Legislative) Guarantor Limited Partnership that warehouses these mortgages and serves as a guarantor to bondholders for payment of interest and principal.

For both covered bond programs, the assets are owned by the guarantor and not CIBC. As at October 31, 2017, our structured program had outstanding covered bond liabilities of $0.3 billion with a fair value of $0.3 billion (2016: $1.0 billion with a fair value of $1.0 billion) and our legislative program had outstanding covered bond liabilities of $17.1 billion with a fair value of $17.3 billion (2016: $13.2 billion with a fair value of $13.3 billion). The covered bond liabilities are supported by a contractually-determined portion of the assets transferred to the guarantor and certain contractual arrangements designed to protect the bondholders from adverse events, including foreign currency fluctuations.

CIBC-managed investment funds

We establish and manage investment funds such as mutual funds and pooled funds. We act as an investment manager and earn market-based management fees, and for certain pooled funds, performance fees which are generally based on the performance of the funds. Seed capital is provided from time to time to CIBC-managed investment funds for initial launch. We consolidate those investment funds in which we have power to direct the relevant activities of the funds and in which our seed capital, or our units held, are significant relative to the total variability of returns of the funds such that we are deemed to be a principal rather than an agent. As at October 31, 2017, the total assets and non-controlling interests in consolidated CIBC-managed investment funds were $70 million and $12 million, respectively (2016: $68 million and $6 million, respectively). Non-controlling interests in consolidated CIBC-managed investment funds are included in Other liabilities as the investment fund units are mandatorily redeemable at the option of the investor.

Community-based tax-advantaged investments

We sponsor certain SEs that invest in community development projects in the U.S. through the issuance of below-market loans that generate a return primarily through the realization of tax credits. As at October 31, 2017, the program had outstanding loans of $44 million (2016: nil).

Non-consolidated structured entities

The following SEs are not consolidated by CIBC:

Single-seller and multi-seller conduits

We manage and administer a single-seller conduit and several CIBC-sponsored multi-seller conduits in Canada. Our multi-seller conduits acquire direct or indirect ownership or security interests in pools of financial assets from our clients and finance the acquisitions by issuing asset-backed commercial paper (ABCP) to investors. Our single-seller conduit acquires financial assets and finances these acquisitions through a credit facility provided by a syndicate of financial institutions. The sellers to the conduits may continue to service the assets and may be exposed to credit losses realized on these assets, typically through the provision of over-collateralization or another form of retained interest. The conduits may obtain credit enhancement from third-party providers. As at October 31, 2017, the total assets in our single-seller conduit and multi-seller conduits amounted to $6.2 billion (2016: $6.0 billion).

We generally provide the multi-seller conduits with commercial paper backstop liquidity facilities, securities distribution, and provide both the single and multi-seller conduits with accounting, cash management, and operations services. The liquidity facilities for our managed and administered multi-seller conduits require us to provide funding, subject to the satisfaction of certain conditions with respect to the conduits, for ABCP not placed with external investors. We also may purchase ABCP issued by our multi-seller conduits for market making purposes.

We are required to maintain certain short-term and/or long-term debt ratings with respect to the liquidity facilities that we provide to our own sponsored multi-seller conduits. If we are downgraded below the level specified under the terms of those facilities, we must provide alternative satisfactory liquidity arrangements, such as procuring an alternative liquidity provider that meets the minimum rating requirements.

We may also act as the counterparty to derivative contracts entered into by a multi-seller conduit in order to convert the yield of the underlying assets to match the needs of the multi-seller conduit's investors or to mitigate the interest rate, basis, and currency risk within the conduit.

All fees earned in respect of activities with the conduits are on a market basis.

Third-party structured vehicles – continuing

We have investments in and provide liquidity and credit facilities to third-party SEs through our treasury and trading activities. We also have investments in LPs in which we generally are a passive investor of the LPs as a limited partner, and in some cases, we are the co-general partner and have significant influence over the LPs. Similar to other limited partners, we are obligated to provide funding up to our commitment level to these LPs.

Pass-through investment structures

We have exposure to units of third-party or CIBC-managed investment funds. We enter into equity derivative transactions with third-party investment funds to pass-through the return of these referenced funds. These transactions provide the investors of the third-party managed investment funds with the desired exposure to the referenced funds in a tax efficient manner.

Commercial mortgage securitization trust

We sold commercial mortgages through a pass-through arrangement with a trust that securitized these mortgages into various classes of ownership certificates held by various external investors. We continue to perform special servicing of the mortgages in exchange for a market-based fee. As at October 31, 2017, the total outstanding ownership certificates in the Commercial mortgage securitization trust amounted to $11 million (2016: $177 million).

CIBC Capital Trust

We have issued senior deposit notes to CIBC Capital Trust, which funds the purchase of these notes through the issuance of CIBC Tier 1 Notes (Notes) that match the term of the senior deposit notes. The Notes are eligible for Tier 1 regulatory capital treatment and are subject to the phase-out rules for capital instruments that will be viewed as non-qualifying capital instruments. See Note 16 for additional details.

CIBC-managed investment funds

As indicated above, we establish investment funds, including mutual funds and pooled funds, to provide clients with investment opportunities and we may receive management fees and performance fees. We may hold insignificant amounts of fund units in these CIBC-managed funds. We do not consolidate these funds if we do not have significant variability of returns from our interests in these funds such that we are deemed to be an agent through our capacity as the investment manager, rather than a principal. We do not guarantee the performance of CIBC-managed investment funds. As at October 31, 2017, the total AUM in the non-consolidated CIBC-managed investment funds amounted to $113.9 billion (2016: $101.4 billion).

CIBC structured collateralized debt obligation vehicles

We hold exposures to structured CDO vehicles through investments in, or written credit derivatives referencing, these structured vehicles. We may also provide liquidity facilities or other credit facilities. The structured vehicles are funded through the issuance of senior and subordinated tranches. We may hold a portion of those senior and/or subordinated tranches.

We previously curtailed our business activity in structuring CDO vehicles within our structured credit run-off portfolio. Our exposures to CDO vehicles mainly arose through our previous involvement in acting as structuring and placement agent for the CDO vehicles. As at October 31, 2017, the assets in the CIBC structured CDO vehicles have a total principal amount of $0.4 billion (2016: $0.9 billion).

Third-party structured vehicles – structured credit run-off

Similar to our structured activities, we also curtailed our business activities in third-party structured vehicles, within our structured credit run-off portfolio. These positions were initially traded as intermediation, correlation and flow trading, which earned us a spread on matching positions.

Sponsored non-consolidated structured entities in which CIBC has no interest

In assessing whether CIBC is considered a sponsor for disclosure purposes, CIBC considers the significance of its involvement with the entity and its role in establishing and setting up the SE. Factors for considering whether CIBC is a sponsor include the extent of CIBC's involvement in the creation and design of the SE, whether CIBC continues to manage ongoing operations, and whether CIBC is the majority user of the entity. CIBC is a sponsor of certain SEs in our structured credit run-off business in which we have no interest. The amount of assets transferred by CIBC to these SEs was nil for the years ended October 31, 2017 and 2016. Income received from the SEs was insignificant for the years ended October 31, 2017 and 2016.

Community Reinvestment Act investments

We hold debt and equity investments in limited liability entities to further our U.S. Community Reinvestment Act initiatives with a carrying value of $159 million (2016: nil). These entities invest in qualifying community development projects, including affordable housing projects, that generate a return primarily by the realization of tax credits. Similar to other limited investors in these entities, we are obligated to provide funding up to our commitment level to these limited liability entities. As at October 31, 2017, the total assets of these limited liability entities were $3.9 billion (2016: nil).

Our on-balance sheet amounts and maximum exposure to loss related to SEs that are not consolidated are set out in the table below. The maximum exposure comprises the carrying value of unhedged investments, the notional amounts for liquidity and credit facilities, and the notional amounts less accumulated fair value losses for unhedged written credit derivatives on SE reference assets. The impact of CVA is not considered in the table below.

$ millions, as at October 31, 2017	Single-seller and multi-seller conduits	Third-party structured vehicles – continuing	Structured vehicles run-off	Other
On-balance sheet assets at carrying value [1]				
Trading securities	**$ –**	**$ 253**	**$ 3**	**$ 364**
AFS securities	**–**	**2,344**	**–**	**159**
FVO securities	**–**	**–**	**94**	**–**
Loans	**94**	**427**	**12**	**–**
Investments in equity-accounted associates and joint ventures	**–**	**1**	**–**	**5**
Derivatives [2]	**–**	**–**	**–**	**–**
	$ 94	**$ 3,025**	**$ 109**	**$ 528**
October 31, 2016	$ 113	$ 4,647	$ 910	$ 448
On-balance sheet liabilities at carrying value [1]				
Deposits	**$ –**	**$ –**	**$ –**	**$ 1,625**
Derivatives [2]	**–**	**–**	**148**	**31**
	$ –	**$ –**	**$ 148**	**$ 1,656** [3]
October 31, 2016	$ –	$ –	$ 174	$ 1,664
Maximum exposure to loss, net of hedges				
Investments and loans	**$ 94**	**$ 3,025**	**$ 109**	**$ 528**
Notional of written derivatives, less fair value losses	**–**	**–**	**31**	**–**
Liquidity, credit facilities and commitments	**5,741** [4]	**2,259**	**13**	**94**
Less: hedges of investments, loans and written derivatives exposure	**–**	**–**	**(34)**	**(364)**
	$ 5,835	**$ 5,284**	**$ 119**	**$ 258**
October 31, 2016	$ 5,613	$ 6,045	$ 409	$ 121

(1) Excludes SEs established by CMHC, Fannie Mae, Freddie Mac, Ginnie Mae, FHLB, Federal Farm Credit Bank, and Student Loan Marketing Association (Sallie Mae).
(2) Comprises written credit default swaps (CDS) and total return swaps (TRS) under which we assume exposures. Excludes foreign exchange derivatives, interest rate derivatives and other derivatives provided as part of normal course client facilitation.
(3) Excludes $2 million (2016: nil) held in short trading positions.
(4) Excludes an additional $3.0 billion (2016: $1.8 billion) relating to our backstop liquidity facilities provided to the multi-seller conduits as part of their commitment to fund purchases of additional assets and nil (2016: $10 million) relating to our direct investments in the multi-seller conduits which we consider investment exposure.

We also hold investments in a variety of third-party investment funds, which include, but are not limited to, exchange-traded funds, mutual funds, and investment trusts. We buy and sell units of these investment funds as part of trading activities or client facilitation businesses that are managed as part of larger portfolios. We generally are a passive investor and are not the investment manager in any of these investment funds. We are not the sponsor of any third-party investment funds, nor do we have the power over key decision-making activities of the funds. Our maximum exposure to loss from our investments is limited to the carrying amounts of our investments and any unutilized commitment we have provided to these funds. In addition, we issue certain structured notes and enter into equity derivatives that are referenced to the return of certain investment funds. Accordingly, we do not include our interests in these third-party investment funds in the table above.

Derecognition of financial assets

We enter into transactions in the normal course of business in which we transfer recognized financial assets directly to third parties, but retain substantially all of the risks and rewards of those assets. The risks include credit, interest rate, foreign exchange, pre-payment and other price risks whereas the rewards include income streams associated with the assets. Due to the retention of risks, the transferred financial assets are not derecognized and such transfers are accounted for as secured borrowing transactions.

The majority of our financial assets transferred to non-consolidated entities that do not qualify for derecognition are: (i) residential mortgage loans under securitization transactions; (ii) securities held by counterparties as collateral under repurchase agreements; and (iii) securities lent under securities lending agreements.

Residential mortgage securitizations

We securitize fully insured fixed- and variable-rate residential mortgage pools through the creation of National Housing Act (NHA) MBS under the NHA MBS Program, sponsored by the CMHC. Under the Canada Mortgage Bond Program, sponsored by the CMHC, we sell MBS to a government-sponsored securitization trust that issues securities to investors. We do not consolidate the securitization trust. We may act as a counterparty in interest rate swap agreements where we pay the trust the interest due to investors and receive the interest on the MBS. We have also sold MBS directly to the CMHC under the Government of Canada's Insured Mortgage Purchase Program as well as other third-party investors.

The sale of mortgage pools that comprise the NHA MBS do not qualify for derecognition as we retain the pre-payment, credit, and interest rate risks associated with the mortgages, which represent substantially all the risks and rewards. As a result, the mortgages remain on our consolidated balance sheet and are carried at amortized cost. We also recognize the cash proceeds from the securitization as Deposits – Secured borrowings.

Securities held by counterparties as collateral under repurchase agreements

We enter into arrangements whereby we sell securities but enter into simultaneous arrangements to repurchase the securities at a fixed price on a future date thereby retaining substantially all the risks and rewards. As a result, the securities remain on our consolidated balance sheet.

Securities lent for cash collateral or for securities collateral

We enter into arrangements whereby we lend securities but with arrangements to receive the securities at a future date, thereby retaining substantially all the risks and rewards. As a result, the securities remain on our consolidated balance sheet.

The following table provides the carrying amount and fair value of transferred financial assets that did not qualify for derecognition and the associated financial liabilities:

$ millions, as at October 31	2017		2016	
	Carrying amount	**Fair value**	Carrying amount	Fair value
Residential mortgage securitizations [1]	**$ 19,948**	**$ 19,857**	$ 19,967	$ 20,021
Securities held by counterparties as collateral under repurchase agreements [2][3]	**10,391**	**10,391**	2,326	2,326
Securities lent for cash collateral [2][3]	**72**	**72**	–	–
Securities lent for securities collateral [2][3]	**19,291**	**19,291**	19,564	19,564
	$ 49,702	**$ 49,611**	$ 41,857	$ 41,911
Carrying amount of associated liabilities [4]	**$ 50,261**	**$ 50,492**	$ 42,902	$ 43,186

(1) Includes $1.9 billion (2016: $2.4 billion) of mortgages underlying MBS held by CMHC counterparties as collateral under repurchase agreements. Certain cash in transit balances related to the securitization process amounting to $809 million (2016: $825 million) have been applied to reduce these balances.
(2) Does not include over-collateralization of assets pledged.
(3) Excludes third-party pledged assets.
(4) Includes the obligation to return off-balance sheet securities collateral on securities lent.

Additionally, we securitized $30.2 billion with a fair value of $30.0 billion (2016: $26.3 billion with a fair value of $26.4 billion) of mortgages that were not transferred to external parties.

Note 7 | Land, buildings and equipment

$ millions, as at or for the year ended October 31		Land and buildings [1]	Computer equipment	Office furniture, equipment and other [2]	Leasehold improvements	Total
2017	**Cost**					
	Balance at beginning of year	**$ 1,531**	**$ 983**	**$ 859**	**$ 1,007**	**$ 4,380**
	Additions [3]	**37**	**104**	**51**	**98**	**290**
	Disposals [4]	**(177)**	**(22)**	**(20)**	**(27)**	**(246)**
	Adjustments [5]	**(35)**	**(5)**	**(6)**	**(5)**	**(51)**
	Balance at end of year	**$ 1,356**	**$ 1,060**	**$ 884**	**$ 1,073**	**$ 4,373**
2016	Balance at end of year	$ 1,531	$ 983	$ 859	$ 1,007	$ 4,380
2017	**Accumulated amortization**					
	Balance at beginning of year	**$ 661**	**$ 771**	**$ 411**	**$ 639**	**$ 2,482**
	Amortization [4]	**37**	**107**	**43**	**68**	**255**
	Disposals [4]	**(77)**	**(5)**	**(15)**	**(24)**	**(121)**
	Adjustments [5]	**(15)**	**(5)**	**(3)**	**(3)**	**(26)**
	Balance at end of year	**$ 606**	**$ 868**	**$ 436**	**$ 680**	**$ 2,590**
2016	Balance at end of year	$ 661	$ 771	$ 411	$ 639	$ 2,482
	Net book value					
	As at October 31, 2017	**$ 750**	**$ 192**	**$ 448**	**$ 393**	**$ 1,783**
	As at October 31, 2016	$ 870	$ 212	$ 448	$ 368	$ 1,898

(1) Includes land and building underlying a finance lease arrangement. See below for further details.
(2) Includes $133 million (2016: $134 million) of work-in-progress not subject to amortization.
(3) Includes acquisitions through business combinations of $62 million (2016: nil).
(4) Includes write-offs of fully amortized assets.
(5) Includes foreign currency translation adjustments.

Net additions and disposals during the year were: Canadian Personal and Small Business Banking net disposals of $97 million (2016: net additions of $64 million); Canadian Commercial Banking and Wealth Management net disposals of $9 million (2016: net additions of $15 million); U.S. Commercial Banking and Wealth Management net additions of $68 million (2016: net additions of $8 million); Capital Markets net additions of nil (2016: net additions of $5 million); and Corporate and Other net additions of $82 million (2016: net additions of $91 million).

Finance lease property

Included in land and buildings above is a finance lease property, a portion of which is rented out and considered an investment property. The carrying value of the finance lease property is as follows:

$ millions, for the year ended October 31	2017	2016
Balance at beginning of year	**$ 418**	$ 432
Amortization	**(24)**	(24)
Foreign currency adjustments	**(15)**	10
Balance at end of year	**$ 379**	$ 418

Rental income of $99 million (2016: $99 million; 2015: $94 million) was generated from the investment property. Interest expense of $28 million (2016: $30 million; 2015: $30 million) and non-interest expenses of $40 million (2016: $49 million; 2015: $46 million) were incurred in respect of the finance lease property. Our commitment related to the finance lease is disclosed in Note 22.

Note 8 | Goodwill, software and other intangible assets

Goodwill

The carrying amount of goodwill is reviewed for impairment annually as at August 1 and whenever there are events or changes in circumstances which indicate that the carrying amount may not be recoverable. Goodwill is allocated to CGUs for the purposes of impairment testing based on the lowest level for which identifiable cash inflows are largely independent of cash inflows from other assets or groups of assets. The goodwill impairment test is performed by comparing the recoverable amount of the CGU to which goodwill has been allocated, with the carrying amount of the CGU including goodwill, with any deficiency recognized as impairment to goodwill. The recoverable amount of a CGU is defined as the higher of its estimated fair value less cost to sell and value in use.

During 2017, we made certain external reporting changes which impacted the results of our SBUs, which in turn changed our allocation of goodwill to our CGUs. As a result of these changes, certain prior period amounts have been reclassified accordingly. See Note 28 for additional details.

We have three significant CGUs to which goodwill has been allocated. The changes in the carrying amount of goodwill are allocated to each CGU as follows:

		CGUs				
$ millions, as at or for the year ended October 31		CIBC FirstCaribbean	Canadian Wealth Management	U.S. Commercial Banking and Wealth Management [1]	Other	Total
2017	**Balance at beginning of year**	**$ 421**	**$ 884**	**$ 107**	**$ 127**	**$ 1,539**
	Acquisitions	**–**	**–**	**3,944**	**–**	**3,944**
	Impairment	**–**	**–**	**–**	**–**	**–**
	Foreign currency translation adjustments	**(16)**	**–**	**(99)**	**(1)**	**(116)**
	Balance at end of year	**$ 405**	**$ 884**	**$ 3,952**	**$ 126**	**$ 5,367**
2016	Balance at beginning of year [2]	$ 410	$ 884	$ 105	$ 127	$ 1,526
	Acquisitions	–	–	–	–	–
	Impairment	–	–	–	–	–
	Foreign currency translation adjustments	11	–	2	–	13
	Balance at end of year	$ 421	$ 884	$ 107	$ 127	$ 1,539

(1) Includes goodwill arising from our acquisitions of The PrivateBank and Geneva Advisors. See Note 3 for additional details on our acquisitions. Also includes goodwill previously allocated to the CIBC Atlantic Trust Private Wealth Management (CIBC Atlantic Trust) CGU.

(2) Net of cumulative impairment charges for FirstCaribbean International Bank Limited (CIBC FirstCaribbean) goodwill of $623 million, and nil for other CGUs.

Impairment testing of goodwill and key assumptions

CIBC FirstCaribbean

CIBC became the majority shareholder of CIBC FirstCaribbean in December 2006 and now holds 91.7% of its shares. CIBC FirstCaribbean is a major Caribbean bank offering a full range of financial services in corporate and investment banking, retail and business banking, and wealth management. CIBC FirstCaribbean, which has assets of over US$12 billion, operates in the Caribbean and is traded on the stock exchanges of Barbados, Trinidad, and Eastern Caribbean. The results of CIBC FirstCaribbean are included in Corporate and Other.

The recoverable amount of CIBC FirstCaribbean is based on a value in use calculation that is estimated using a five-year cash flow projection approved by management of CIBC FirstCaribbean and an estimate of the capital required to be maintained in the region to support ongoing operations.

We have determined that for the impairment testing performed as at August 1, 2017, the estimated recoverable amount of the CIBC FirstCaribbean CGU approximated its carrying amount. As a result, no impairment charge was recognized during 2017. The forecast for CIBC FirstCaribbean used in our impairment test reflects an expectation of continued productive loan growth during the forecast period.

A terminal growth rate of 2.5% as at August 1, 2017 (August 1, 2016: 2.5%) was applied to the years after the five-year forecast. All of the forecasted cash flows were discounted at an after-tax rate of 14% as at August 1, 2017 (15.3% pre-tax) which we believe to be a risk-adjusted interest rate appropriate to CIBC FirstCaribbean (we used an after-tax rate of 13% as at August 1, 2016). The determination of a discount rate and a terminal growth rate require the exercise of judgment. The discount rate was determined based on the following primary factors: (i) the risk-free rate; (ii) an equity risk premium; (iii) beta adjustment to the equity risk premium based on a review of betas of comparable publicly traded financial institutions in the region; and (iv) a country risk premium. The terminal growth rate was based on management's expectations of real growth and forecast inflation rates.

Estimation of the recoverable amount is an area of significant judgment. Reductions in the estimated recoverable amount could arise from various factors, such as, reductions in forecasted cash flows, an increase in the assumed level of required capital, and any adverse changes to the discount rate or the terminal growth rate either in isolation or in any combination thereof. We estimated that a 10% decrease in each of the terminal year's and subsequent years' forecasted cash flows would result in a reduction in the estimated recoverable amount of the CIBC FirstCaribbean CGU of approximately $115 million as at August 1, 2017. We also estimated that a 50 basis point increase in the after-tax discount rate would result in a reduction in the estimated recoverable amount of the CIBC FirstCaribbean CGU of approximately $70 million as at August 1, 2017. These sensitivities are indicative only and should be considered with caution, as the effect of the variation in each assumption on the estimated recoverable amount is calculated in isolation without changing any other assumptions. In practice, changes in one factor may result in changes in another, which may magnify, counteract or obfuscate the disclosed sensitivities.

Canadian Wealth Management

The recoverable amount of the Canadian Wealth Management CGU is based on a fair value less cost to sell calculation. The fair value is estimated using an earnings-based approach whereby the forecasted earnings are based on the Wealth Management internal plan which was approved by management and covers a three-year period. The calculation incorporates the forecasted earnings multiplied by an earnings multiple derived from observable price-to-earnings multiples of comparable wealth management institutions. The price-to-earnings multiples of those comparable wealth management institutions ranged from 10.8 to 22.3 as at August 1, 2017 (August 1, 2016: 9.4 to 22.0).

We have determined that the estimated recoverable amount of the Wealth Management CGU was well in excess of its carrying amount as at August 1, 2017. As a result, no impairment charge was recognized during 2017.

If alternative reasonably possible changes in key assumptions were applied, the result of the impairment test would not differ.

U.S. Commercial Banking and Wealth Management

During 2017, we completed the acquisitions of The PrivateBank and Geneva Advisors. The goodwill arising from both acquisitions has been allocated to the U.S. Commercial Banking and Wealth Management CGU. As a result of the external reporting changes described above, CIBC Atlantic Trust is also included in the U.S. Commercial Banking and Wealth Management CGU.

Given the proximity of the acquisition of The PrivateBank to our impairment testing date of August 1, 2017, the ongoing performance of CIBC Bank USA (formerly The PrivateBank), and the absence of adverse market conditions, we have determined that the estimated recoverable amount of the U.S. Commercial Banking and Wealth Management CGU approximates its carrying value, and therefore no impairment charge was recognized during 2017.

See Note 3 for additional details on our acquisitions of The PrivateBank and Geneva Advisors.

Other

The goodwill relating to the Other CGUs is comprised of amounts which individually are not considered to be significant. We have determined that for the impairment testing performed as at August 1, 2017, the estimated recoverable amount of these CGUs was in excess of their carrying amounts.

Allocation to strategic business units

Goodwill of $5,367 million (2016: $1,539 million) is allocated to the SBUs as follows: Canadian Commercial Banking and Wealth Management of $892 million (2016: $892 million), Corporate and Other of $454 million (2016: $470 million), U.S. Commercial Banking and Wealth Management of $3,952 million (2016: $107 million), Capital Markets of $62 million (2016: $63 million), and Canadian Personal and Small Business Banking of $7 million (2016: $7 million).

Software and other intangible assets

The carrying amount of indefinite-lived intangible assets is provided in the following table:

$ millions, as at or for the year ended October 31		Contract based [1]	Brand name [2]	Total
2017	**Balance at beginning of year**	**$ 116**	**$ 26**	**$ 142**
	Foreign currency translation adjustments	**–**	**(1)**	**(1)**
	Balance at end of year	**$ 116**	**$ 25**	**$ 141**
2016	Balance at beginning of year	$ 116	$ 26	$ 142
	Foreign currency translation adjustments	–	–	–
	Balance at end of year	$ 116	$ 26	$ 142

(1) Represents management contracts purchased as part of past acquisitions.
(2) Acquired as part of the CIBC FirstCaribbean acquisition.

The components of finite-lived software and other intangible assets are as follows:

$ millions, as at or for the year ended October 31		Software [1]	Core deposit intangibles [2]	Contract based [3]	Customer relationships [4]	Total
2017	**Gross carrying amount**					
	Balance at beginning of year	**$ 2,243**	**$ 304**	**$ 41**	**$ 190**	**$ 2,778**
	Additions	**401**	**315**	**31**	**123**	**870**
	Disposals [5]	**(5)**	**–**	**(28)**	**–**	**(33)**
	Adjustments [6]	**(7)**	**(20)**	**–**	**(3)**	**(30)**
	Balance at end of year	**$ 2,632**	**$ 599**	**$ 44**	**$ 310**	**$ 3,585**
2016	Balance at end of year	$ 2,243	$ 304	$ 41	$ 190	$ 2,778
2017	**Accumulated amortization**					
	Balance at beginning of year	**$ 1,168**	**$ 226**	**$ 35**	**$ 81**	**$ 1,510**
	Amortization and impairment [5][7]	**246**	**21**	**3**	**17**	**287**
	Disposals [5]	**(5)**	**–**	**(28)**	**–**	**(33)**
	Adjustments [6]	**(6)**	**(8)**	**(1)**	**(1)**	**(16)**
	Balance at end of year	**$ 1,403**	**$ 239**	**$ 9**	**$ 97**	**$ 1,748**
2016	Balance at end of year	$ 1,168	$ 226	$ 35	$ 81	$ 1,510
	Net book value					
	As at October 31, 2017	**$ 1,229**	**$ 360**	**$ 35**	**$ 213**	**$ 1,837**
	As at October 31, 2016	$ 1,075	$ 78	$ 6	$ 109	$ 1,268

(1) Includes $456 million (2016: $438 million) of work-in-progress not subject to amortization.
(2) Acquired as part of the acquisitions of CIBC FirstCaribbean and The PrivateBank.
(3) Represents a combination of management contracts purchased as part of past acquisitions, as well as management contracts purchased as part of our acquisitions of The PrivateBank and Geneva Advisors in 2017.
(4) Represents customer relationships associated with past acquisitions, including CIBC Atlantic Trust, and the MasterCard portfolio, as well as customer relationships associated with our acquisitions of The PrivateBank and Geneva Advisors in 2017.
(5) Includes write-offs of fully amortized assets.
(6) Includes foreign currency translation adjustments.
(7) Includes impairment losses relating to software of $2 million (2016: $1 million).

Net additions and disposals of gross carrying amount during the year were: Canadian Personal and Small Business Banking net additions of $1 million (2016: net disposals of $11 million); Canadian Commercial Banking and Wealth Management net disposals of $28 million (2016: net disposals of nil); U.S. Commercial Banking and Wealth Management net additions of $471 million (2016: net disposals of nil); Capital Markets net additions of $1 million (2016: net disposals of nil); and Corporate and Other net additions of $392 million (2016: net additions of $414 million).

Note 9 | Other assets

$ millions, as at October 31	2017	2016
Accrued interest receivable	$ 951	$ 833
Defined benefit asset (Note 19)	200	187
Gold and silver certificates	186	586
Brokers' client accounts	1,503	1,016
Current tax receivable	2,783	1,738
Other prepayments	697	698
Derivative collateral receivable	4,420	6,022
Accounts receivable	512	485
Other	553	467
	$ 11,805	$ 12,032

Note 10 | Deposits(1)(2)(3)

$ millions, as at October 31	Payable on demand (4)	Payable after notice (5)	Payable on a fixed date (6)	2017 Total	2016 Total
Personal	$ 12,297	$ 101,797	$ 45,233	$ 159,327	$ 148,081
Business and government (7)	57,716	43,405	124,501	225,622	190,240
Bank	4,650	571	8,568	13,789	17,842
Secured borrowings (8)	–	–	40,968	40,968	39,484
	$ 74,663	$ 145,773	$ 219,270	$ 439,706	$ 395,647
Comprises:					
Held at amortized cost				$ 433,759	$ 392,366
Designated at fair value				5,947	3,281
				$ 439,706	$ 395,647
Total deposits include:					
Non-interest-bearing deposits					
In domestic offices				$ 50,810	$ 45,709
In foreign offices				12,289	4,005
Interest-bearing deposits					
In domestic offices				297,997	276,330
In foreign offices				78,610	69,603
				$ 439,706	$ 395,647

(1) Includes deposits of $145.6 billion (2016: $103.5 billion) denominated in U.S. dollars and deposits of $19.9 billion (2016: $22.8 billion) denominated in other foreign currencies.
(2) Net of purchased notes of $2,465 million (2016: $2,406 million).
(3) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(4) Includes all deposits for which we do not have the right to require notice of withdrawal. These deposits are generally chequing accounts.
(5) Includes all deposits for which we can legally require notice of withdrawal. These deposits are generally savings accounts.
(6) Includes all deposits that mature on a specified date. These deposits are generally term deposits, guaranteed investment certificates, and similar instruments.
(7) Includes $1,625 million (2016: $1,664 million) of Notes issued to CIBC Capital Trust.
(8) Comprises liabilities issued by or as a result of activities associated with the securitization of residential mortgages, Covered Bond Programme, and consolidated securitization vehicles.

Note 11 | Other liabilities

$ millions, as at October 31	2017	2016
Accrued interest payable	$ 1,095	$ 988
Defined benefit liability (Note 19)	766	894
Gold and silver certificates	126	135
Brokers' client accounts	2,366	1,548
Derivative collateral payable	3,660	2,850
Other deferred items	683	645
Negotiable instruments	886	805
Accounts payable and accrued expenses	1,486	1,605
Other	4,207	3,428
	$ 15,275	$ 12,898

Note 12 | Derivative instruments

As described in Note 1, in the normal course of business, we use various derivative instruments for both trading and ALM purposes. These derivatives limit, modify or give rise to varying degrees and types of risk.

$ millions, as at October 31	2017		2016	
	Assets	**Liabilities**	Assets	Liabilities
Trading (Note 2)	**$ 21,352**	**$ 21,275**	$ 24,438	$ 24,844
ALM (Note 2)				
Designated accounting hedges (Note 13)	**2,454**	**1,222**	2,494	2,794
Economic hedges [1]	**536**	**774**	830	1,169
	$ 24,342	**$ 23,271**	$ 27,762	$ 28,807

(1) Comprises derivatives not designated in hedge accounting relationships under IAS 39.

Derivatives used by CIBC

The majority of our derivative contracts are OTC transactions. OTC transactions consist of: (i) contracts that are bilaterally negotiated and settled between CIBC and the counterparty to the contract; and (ii) contracts that are bilaterally negotiated and then cleared through a central counterparty (CCP). Bilaterally negotiated and settled contracts are usually traded under a standardized International Swaps and Derivatives Association (ISDA) agreement with collateral posting arrangements between CIBC and its counterparties. Terms are negotiated directly with counterparties and the contracts have industry-standard settlement mechanisms prescribed by ISDA. Centrally cleared contracts are generally bilaterally negotiated and then novated to, and cleared through, a CCP. The industry promotes the use of CCPs to clear OTC trades. The central clearing of derivative contracts generally facilitates the reduction of credit exposures due to the ability to net settle offsetting positions. Consequently, derivative contracts cleared through CCPs generally attract less capital relative to those settled with non-CCPs.

The remainder of our derivative contracts are exchange-traded derivatives, which are standardized in terms of their amounts and settlement dates, and are bought and sold on organized and regulated exchanges. These exchange-traded derivative contracts consist primarily of options and futures.

Interest rate derivatives

Forward rate agreements are OTC contracts that effectively fix a future interest rate for a period of time. A typical forward rate agreement provides that at a pre-determined future date, a cash settlement will be made between the counterparties based upon the difference between a contracted rate and a market rate to be determined in the future, calculated on a specified notional principal amount. No exchange of principal amount takes place. Certain forward rate agreements are bilaterally transacted and then novated and settled through a clearing house which acts as a CCP.

Interest rate swaps are OTC contracts in which two counterparties agree to exchange cash flows over a period of time based on rates applied to a specified notional principal amount. A typical interest rate swap would require one counterparty to pay a fixed market interest rate in exchange for a variable market interest rate determined from time to time, with both calculated on a specified notional principal amount. No exchange of principal amount takes place. Certain interest rate swaps are bilaterally transacted and then novated and settled through a clearing house which acts as a CCP.

Interest rate options are contracts in which one party (the purchaser of an option) acquires from another party (the writer of an option), in exchange for a premium, the right, but not the obligation, to either buy or sell, on a specified future date or within a specified time, a specified financial instrument at a contracted price. The underlying financial instrument has a market price which varies in response to changes in interest rates. Options are transacted in both OTC and exchange-traded markets.

Interest rate futures are standardized contracts transacted on an exchange. They are based upon an agreement to buy or sell a specified quantity of a financial instrument on a specified future date, at a contracted price. These contracts differ from forward rate agreements in that they are in standard amounts with standard settlement dates and are transacted through an exchange.

Foreign exchange derivatives

Foreign exchange forwards are OTC contracts in which one counterparty contracts with another to exchange a specified amount of one currency for a specified amount of a second currency, at a future date or range of dates.

Foreign exchange futures contracts are similar in mechanics to foreign exchange forward contracts except that they are in standard currency amounts with standard settlement dates and are transacted through an exchange.

Foreign exchange swap contracts comprise foreign exchange swaps and cross-currency interest rate swaps. Foreign exchange swaps are transactions in which a currency is simultaneously purchased in the spot market and sold for a different currency in the forward market, or vice versa. Cross-currency interest rate swaps are transactions in which counterparties exchange principal and interest flows in different currencies over a period of time. These contracts are used to manage both currency and interest rate exposures.

Credit derivatives

Credit derivatives are OTC contracts designed to transfer the credit risk in an underlying financial instrument (usually termed as a reference asset) from one counterparty to another. The most common credit derivatives are CDS and certain TRS.

CDS contracts provide protection against the decline in value of a reference asset as a result of specified credit events such as default or bankruptcy. These derivatives are similar in structure to an option whereby the purchaser pays a premium to the seller of the CDS contract in return for payment contingent on the occurrence of a credit event. The protection purchaser has recourse to the protection seller for the difference between the face value of the CDS contract and the fair value of the reference asset at the time of settlement. Neither the purchaser nor the seller under the CDS contract has recourse to the entity that issued the reference asset. Certain CDS contracts are cleared through a CCP.

In credit derivative TRS contracts, one counterparty agrees to pay or receive cash amounts based on the returns of a reference asset, including interest earned on these assets in exchange for amounts that are based on prevailing market funding rates. These cash settlements are made regardless of whether there is a credit event. Upon the occurrence of a credit event, the parties may either exchange cash payments according to the value of the defaulted assets or exchange cash based on the notional amount for physical delivery of the defaulted assets.

Within our structured credit run-off business, we have purchased and sold credit protection with CDS and TRS contracts on reference assets that include corporate debt, CDOs of residential mortgages, trust preferred securities, and CLOs.

Equity derivatives

Equity swaps are OTC contracts in which one counterparty agrees to pay, or receive from the other, cash amounts based on changes in the value of a stock index, a basket of stocks or a single stock in exchange for amounts that are based either on prevailing market funding rates or changes in the value of a different stock index, basket of stocks or a single stock. These contracts generally include payments in respect of dividends.

Equity options give the purchaser of the option, for a premium, the right, but not the obligation, to buy from or sell to the writer of an option, an underlying stock index, basket of stocks, or a single stock at a contracted price. Options are transacted in both OTC and exchange markets.

Equity index futures are standardized contracts transacted on an exchange. They are based on an agreement to pay or receive a cash amount based on the difference between the contracted price level of an underlying stock index and its corresponding market price level at a specified future date. There is generally no actual delivery of stocks that comprise the underlying index. These contracts are in standard amounts with standard settlement dates.

Precious metal and other commodity derivatives

We also transact in other derivative products, including commodity forwards, futures, swaps and options, such as precious metal and energy-related products in both OTC and exchange markets.

Notional amounts

The notional amounts are not recorded as assets or liabilities, as they represent the face amount of the contract to which a rate or price is applied to determine the amount of cash flows to be exchanged. In most cases, notional amounts do not represent the potential gain or loss associated with market or credit risk of such instruments.

The following table presents the notional amounts of derivative instruments:

$ millions, as at October 31	Residual term to contractual maturity				2017		2016	
	Less than 1 year	1 to 5 years	Over 5 years	Total notional amounts	Trading	ALM	Trading	ALM
Interest rate derivatives								
Over-the-counter								
Forward rate agreements	**$ 4,496**	**$ 224**	**$ 5,128**	**$ 9,848**	**$ 5,352**	**$ 4,496**	$ 4,465	$ 8,536
Centrally cleared forward rate agreements	**199,849**	**35,938**	**–**	**235,787**	**235,787**	**–**	201,237	–
Swap contracts	**63,922**	**185,174**	**71,469**	**320,565**	**243,136**	**77,429**	257,417	94,628
Centrally cleared swap contracts	**982,638**	**870,444**	**193,316**	**2,046,398**	**1,782,769**	**263,629**	1,185,842	203,253
Purchased options	**6,416**	**4,033**	**2,402**	**12,851**	**7,813**	**5,038**	4,231	5,813
Written options	**3,967**	**3,788**	**403**	**8,158**	**6,086**	**2,072**	4,637	100
	1,261,288	**1,099,601**	**272,718**	**2,633,607**	**2,280,943**	**352,664**	1,657,829	312,330
Exchange-traded								
Futures contracts	**55,368**	**17,963**	**67**	**73,398**	**72,362**	**1,036**	71,144	2,555
Purchased options	**3,850**	**–**	**–**	**3,850**	**3,850**	**–**	536	–
Written options	**2,500**	**–**	**–**	**2,500**	**2,500**	**–**	–	–
	61,718	**17,963**	**67**	**79,748**	**78,712**	**1,036**	71,680	2,555
Total interest rate derivatives	**1,323,006**	**1,117,564**	**272,785**	**2,713,355**	**2,359,655**	**353,700**	1,729,509	314,885
Foreign exchange derivatives								
Over-the-counter								
Forward contracts	**289,256**	**9,364**	**912**	**299,532**	**293,292**	**6,240**	270,193	7,999
Swap contracts	**232,495**	**66,009**	**21,549**	**320,053**	**258,668**	**61,385**	194,034	60,414
Purchased options	**20,659**	**2,155**	**63**	**22,877**	**22,861**	**16**	23,395	–
Written options	**21,600**	**1,390**	**44**	**23,034**	**23,009**	**25**	23,715	–
	564,010	**78,918**	**22,568**	**665,496**	**597,830**	**67,666**	511,337	68,413
Exchange-traded								
Futures contracts	**1**	**–**	**–**	**1**	**1**	**–**	–	–
Total foreign exchange derivatives	**564,011**	**78,918**	**22,568**	**665,497**	**597,831**	**67,666**	511,337	68,413
Credit derivatives								
Over-the-counter								
Total return swap contracts – protection sold	**–**	**–**	**–**	**–**	**–**	**–**	91	–
Credit default swap contracts – protection purchased	**16**	**435**	**36**	**487**	**376**	**111**	5,653	–
Centrally cleared credit default swap contracts – protection purchased	**13**	**440**	**718**	**1,171**	**1,016**	**155**	1,286	174
Credit default swap contracts – protection sold	**178**	**109**	**167**	**454**	**343**	**111**	4,872	–
Centrally cleared credit default swap contracts – protection sold	**–**	**258**	**–**	**258**	**258**	**–**	–	13
Total credit derivatives	**207**	**1,242**	**921**	**2,370**	**1,993**	**377**	11,902	187
Equity derivatives								
Over-the-counter	**58,214**	**15,797**	**196**	**74,207**	**73,064**	**1,143**	71,742	877
Exchange-traded	**43,658**	**11,239**	**–**	**54,897**	**54,897**	**–**	34,016	–
Total equity derivatives	**101,872**	**27,036**	**196**	**129,104**	**127,961**	**1,143**	105,758	877
Precious metal derivatives								
Over-the-counter	**3,092**	**62**	**–**	**3,154**	**3,154**	**–**	1,088	–
Exchange-traded	**2,926**	**3**	**–**	**2,929**	**2,929**	**–**	758	–
Total precious metal derivatives	**6,018**	**65**	**–**	**6,083**	**6,083**	**–**	1,846	–
Other commodity derivatives								
Over-the-counter	**12,105**	**13,386**	**2,140**	**27,631**	**27,628**	**3**	23,563	–
Centrally cleared commodity derivatives	**20**	**7**	**–**	**27**	**27**	**–**	47	–
Exchange-traded	**13,356**	**6,648**	**359**	**20,363**	**20,363**	**–**	18,556	–
Total other commodity derivatives	**25,481**	**20,041**	**2,499**	**48,021**	**48,018**	**3**	42,166	–
Total notional amount of which:	**$ 2,020,595**	**$ 1,244,866**	**$ 298,969**	**$ 3,564,430**	**$ 3,141,541**	**$ 422,889**	$ 2,402,518	$ 384,362
Over-the-counter (1)	**1,898,936**	**1,209,013**	**298,543**	**3,406,492**	**2,984,639**	**421,853**	2,277,508	381,807
Exchange-traded	**121,659**	**35,853**	**426**	**157,938**	**156,902**	**1,036**	125,010	2,555

(1) For OTC derivatives that are not centrally cleared, $933.8 billion (2016: $872.3 billion) are with counterparties that have two-way collateral posting arrangements, $17.3 billion (2016: $12.9 billion) are with counterparties that have one-way collateral posting arrangements, and $171.8 billion (2016: $182.3 billion) are with counterparties that have no collateral posting arrangements. All counterparties with whom we have one-way collateral posting arrangements are sovereign entities.

Risk

In the following sections, we discuss the risks related to the use of derivatives and how we manage these risks.

Market risk

Derivatives, in the absence of any compensating upfront cash payments, generally have no or small market values at inception. They obtain value as relevant interest rates, foreign exchange rates, equity, commodity, credit prices or indices change, such that the previously contracted terms of the derivative transactions have become more or less favourable than what can be negotiated under current market conditions for contracts with the same terms and the same remaining period to expiry. The potential for derivatives to increase or decrease in value as a result of the aforementioned factors is generally referred to as market risk.

Market risk arising from derivative trading activities is managed in order to mitigate risk with a view to maximize trading income. To manage market risk, we may enter into contracts with other market makers or undertake cash market hedges.

Credit risk

Credit risk arises from the potential for a counterparty to default on its contractual obligations and the possibility that prevailing market conditions are such that a loss would occur in replacing the defaulted transaction. We limit the credit risk of OTC derivatives through the use of ISDA master netting agreements, collateral, CCPs and other credit mitigation techniques. We clear eligible derivatives through CCPs in accordance with various global initiatives. Where feasible, we novate existing bilaterally negotiated and settled derivatives to a CCP in an effort to reduce CIBC's credit risk exposure.

We negotiate netting agreements to contain the build-up of credit exposure resulting from multiple transactions with more active counterparties. Such agreements provide for the simultaneous close-out and netting of all transactions with a counterparty, in the case of a counterparty default. A number of these agreements incorporate a Credit Support Annex, which is a bilateral security agreement that, among other things, provides for the exchange of collateral between parties in the event that one party's exposure to the other exceeds agreed upon thresholds.

Written OTC options, including CDS, generally have no credit risk for the writer if the counterparty has already performed in accordance with the terms of the contract through payment of the premium at inception. These written options will, however, have some credit risk to the extent of any unpaid premiums.

Credit risk on exchange-traded futures and options is limited, as these transactions are standardized contracts executed on established exchanges, whose CCPs assume the obligations of both counterparties. Similarly, swaps that are centrally cleared represent limited credit risk because these transactions are novated to the CCP, which assumes the obligations of the original bilateral counterparty. All exchange-traded and centrally cleared contracts are subject to initial margin and daily settlement of variation margins, designed to protect participants from losses incurred from a counterparty default.

The following table summarizes our credit exposure arising from derivatives, except for those that are traded on an exchange or are CCP settled. The calculation of the risk-weighted amount is prescribed by OSFI. The current replacement cost is the estimated cost to replace all contracts that have a positive market value, representing an unrealized gain to us. The replacement cost of an instrument is dependent upon its terms relative to prevailing market prices, and will fluctuate as market prices change and as the derivative approaches its scheduled maturity.

The credit equivalent amount is the sum of the current replacement cost and the potential credit exposure. The potential credit exposure is an estimate of the amount by which the current replacement cost could increase over the remaining term of each transaction, based on a formula prescribed by OSFI. The credit equivalent amount is then multiplied by counterparty risk variables that are adjusted for the impact of collateral and guarantees to arrive at the risk-weighted amount. The risk-weighted amount is used in determining the regulatory capital requirements for derivatives.

$ millions, as at October 31	2017					2016				
	Current replacement cost			Credit equivalent amount [1]	Risk-weighted amount	Current replacement cost			Credit equivalent amount [1]	Risk-weighted amount
	Trading	ALM	Total			Trading	ALM	Total		
Interest rate derivatives										
Over-the-counter										
Forward rate agreements	$ 56	$ 1	$ 57	$ 29	$ 3	$ 13	$ –	$ 13	$ 32	$ 2
Swap contracts	6,968	1,065	8,033	4,993	653	11,501	737	12,238	5,075	915
Purchased options	153	3	156	55	22	181	8	189	36	13
	7,177	1,069	8,246	5,077	678	11,695	745	12,440	5,143	930
Exchange-traded	–	–	–	88	2	–	–	–	72	2
	7,177	1,069	8,246	5,165	680	11,695	745	12,440	5,215	932
Foreign exchange derivatives										
Over-the-counter										
Forward contracts	3,603	87	3,690	3,644	938	3,693	228	3,921	3,356	900
Swap contracts	6,028	1,707	7,735	4,350	847	5,914	2,347	8,261	3,734	673
Purchased options	217	1	218	310	81	310	–	310	358	123
	9,848	1,795	11,643	8,304	1,866	9,917	2,575	12,492	7,448	1,696
Credit derivatives										
Over-the-counter										
Credit default swap contracts										
– protection purchased	130	–	130	90	10	141	1	142	146	7
– protection sold	11	–	11	6	–	–	–	–	–	–
	141	–	141	96	10	141	1	142	146	7
Equity derivatives										
Over-the-counter	1,197	126	1,323	2,033	520	385	3	388	1,912	379
Exchange-traded	1,541	–	1,541	2,837	84	742	–	742	1,648	49
	2,738	126	2,864	4,870	604	1,127	3	1,130	3,560	428
Precious metal derivatives										
Over-the-counter	40	–	40	43	19	32	–	32	30	17
Exchange-traded	186	–	186	24	1	38	–	38	4	–
	226	–	226	67	20	70	–	70	34	17
Other commodity derivatives										
Over-the-counter	1,138	–	1,138	2,314	902	1,365	–	1,365	2,254	1,025
Exchange-traded	84	–	84	1,003	40	123	–	123	969	39
	1,222	–	1,222	3,317	942	1,488	–	1,488	3,223	1,064
Non-trade exposure related to central counterparties (CCP)					176					286
Common equity tier 1 (CET1) CVA charge					3,498					2,977
Total derivatives before netting	21,352	2,990	24,342	21,819	7,796	24,438	3,324	27,762	19,626	7,407
Less: effect of netting			(13,977)					(17,965)		
Total derivatives			$ 10,365	$ 21,819	$ 7,796			$ 9,797	$ 19,626	$ 7,407

(1) Sum of current replacement cost and potential future exposure, adjusted for the master netting agreements and the impact of collateral amounting to $4,341 million (2016: $3,940 million). The collateral comprises cash of $3,516 million (2016: $2,683 million) and government securities of $825 million (2016: $1,257 million).

Operating limits

We establish counterparty credit limits and limits for CCP exposures based on a counterparty's creditworthiness and the type of trading relationship with each counterparty (underlying agreements, business volumes, product types, tenors, etc.)

CVA

A CVA is determined using the fair value based exposure we have on derivative contracts. We believe that we have made appropriate fair value adjustments to date. The establishment of fair value adjustments involves estimates that are based on accounting processes and judgments by management. We evaluate the adequacy of the fair value adjustments on an ongoing basis. Market and economic conditions relating to derivative counterparties may change in the future, which could result in significant future losses.

Financial guarantors

Contracts we have with financial guarantors are primarily credit derivatives. Fair value based exposure for credit derivatives is determined using the market value of the underlying reference assets. Our counterparty credit charge is a function of the fair value based exposure and our assessment of the counterparty credit risk. Counterparty credit risk is calculated using market-observed credit spreads, where available and appropriate, or through the use of equivalent credit proxies, or through an assessment of net recoverable value. During the year, we recorded a gain of nil (2016: $2 million; 2015: $6 million) against our receivables from financial guarantors. We have not terminated any contracts with financial guarantors during the year (2016: nil; 2015: nil). The fair value of derivative contracts with financial guarantors, net of CVA, was nil (2016: $2 million).

Non-financial guarantors

Our methodology in establishing CVA against other derivative counterparties is also calculated using a fair value based exposure measure. We use market-observed credit spreads or proxies, as appropriate. During the year, we recorded a gain of nil (2016: loss of $14 million; 2015: loss of $7 million, excluding the impact of the adoption of funding valuation adjustments) on our positions with non-financial guarantors derivative counterparties.

Note 13 | Designated accounting hedges

The following table presents the hedge ineffectiveness gains (losses) recognized in the consolidated statement of income:

$ millions, for the year ended October 31	**2017**	2016	2015
Fair value hedges [1]			
Gains (losses) on hedging instruments	**$ (24)**	$ (520)	$ (213)
Gains (losses) on hedged items attributable to hedged risks	**73**	458	163
	$ 49	$ (62)	$ (50)
Cash flow hedges [2][3]	**$ –**	$ –	$ 1

(1) Recognized in Net interest income.
(2) Recognized in Non-interest income – Other and Non-interest expenses – Other.
(3) Includes NIFO hedges.

Portions of derivative gains (losses) that by designation were excluded from the assessment of hedge effectiveness for fair value, cash flow, and NIFO hedging activities are included in the consolidated statement of income, and are not significant for the years ended October 31, 2017, 2016 and 2015.

The following table presents the notional amounts and carrying value of our hedging-related derivative instruments:

$ millions, as at October 31	**2017**			2016		
	Derivatives notional amount	**Carrying value**		Derivatives notional amount	Carrying value	
		Positive	**Negative**		Positive	Negative
Fair value hedges	**$ 210,019**	**$ 1,717**	**$ 907**	$ 182,610	$ 2,250	$ 1,255
Cash flow hedges	**23,332**	**419**	**315**	23,210	244	394
NIFO hedges	**5,712**	**318**	**–**	4,390	–	1,145
	$ 239,063	**$ 2,454**	**$ 1,222**	$ 210,210	$ 2,494	$ 2,794

In addition, foreign currency denominated deposit liabilities of $45 million (2016: $45 million) and $17.9 billion (2016: $12.6 billion) have been designated as hedging instruments in fair value hedges of foreign exchange risk and NIFO hedges, respectively.

The cash flows designated as hedged items are expected to occur as follows:

$ millions, as at October 31		Within 1 year	1 – 3 years	3 – 8 years	Over 8 years
2017	**Cash inflows**	**$ 16**	**$ 41**	**$ 15**	**$ –**
	Cash outflows	**(481)**	**(962)**	**(23)**	**–**
	Net cash flows	**$ (465)**	**$ (921)**	**$ (8)**	**$ –**
2016	Net cash flows	$ (340)	$ (632)	$ (35)	$ –

Cash flows designated in cash flow hedges of $332 million, $189 million and $8 million are expected to affect net income in the next 12 months, 1 to 3 years and 3 to 8 years, respectively (2016: $174 million, $156 million and $35 million, respectively).

Note 14 | Subordinated indebtedness

The debt issues included in the table below are outstanding unsecured obligations of CIBC and its subsidiaries and are subordinated to the claims of depositors and other creditors as set out in their terms. Foreign currency denominated indebtedness funds foreign currency denominated assets (including our NIFOs). All redemptions are subject to regulatory approval.

Terms of subordinated indebtedness

$ millions, as at October 31					2017		2016	
		Earliest date redeemable						
Interest rate %	Contractual maturity date	At greater of Canada Yield Price [1] and par	At par	Denominated in foreign currency	**Par value**	**Carrying value** [2]	Par value	Carrying value [2]
Fixed [3]	September 23, 2018			TT$195 million	**$ 37**	**$ 37**	$ 39	$ 39
6.00 [4]	June 6, 2023	June 6, 2008	June 6, 2018		**600**	**598**	600	600
3.00 [5][6]	October 28, 2024		October 28, 2019		**1,000**	**986**	1,000	1,002
3.42 [6][7]	January 26, 2026		January 26, 2021		**1,000**	**975**	1,000	1,004
8.70	May 25, 2029 [8]				**25**	**41**	25	45
11.60	January 7, 2031	January 7, 1996			**200**	**188**	200	201
10.80	May 15, 2031	May 15, 2021			**150**	**139**	150	151
8.70	May 25, 2032 [8]				**25**	**43**	25	47
8.70	May 25, 2033 [8]				**25**	**43**	25	48
8.70	May 25, 2035 [8]				**25**	**45**	25	51
Floating [9]	July 31, 2084		July 27, 1990	US$ 66 million [10]	**85**	**85**	133	133
Floating [11]	August 31, 2085		August 20, 1991	US$17 million [12]	**22**	**22**	48	48
					3,194	**3,202**	3,270	3,369
Subordinated indebtedness sold short (held) for trading purposes					**7**	**7**	(3)	(3)
					$ 3,201	**$ 3,209**	$ 3,267	$ 3,366

(1) Canada Yield Price: a price calculated at the time of redemption to provide a yield to maturity equal to the yield of a Government of Canada bond of appropriate maturity plus a pre-determined spread.
(2) Carrying values of fixed-rate subordinated indebtedness notes reflect the impact of interest rate hedges in an effective hedge relationship.
(3) Guaranteed Subordinated Term Notes in Trinidad and Tobago dollars issued on March 23, 2007 by FirstCaribbean International Bank (Trinidad & Tobago) Limited, a subsidiary of CIBC FirstCaribbean, and guaranteed on a subordinated basis by CIBC FirstCaribbean. Interest rate is fixed for the first two years at 7.90%; then fixed for the next three years at 8.15%; thereafter fixed at 8.75% for the remaining tenor. Effective September 23, 2012, the subordinated notes were amended, and the maturity date was extended to September 23, 2018 and the interest was reduced to 4.35% per annum for the remaining term.
(4) Interest rate is fixed at the indicated rate until the earliest date redeemable at par by CIBC and, thereafter, at a rate of 2.50% above the three-month Canadian dollar bankers' acceptance rate.
(5) Interest rate is fixed at the indicated rate until the earliest date redeemable at par by CIBC and, thereafter, at a rate of 1.19% above the three-month Canadian dollar bankers' acceptance rate.
(6) Debentures are also subject to a Non-Viability Contingent Capital (NVCC) provision, necessary for the Debentures to qualify as Tier 2 regulatory capital under Basel III. As such, the Debentures are automatically converted into common shares upon the occurrence of a Trigger Event as described in the capital adequacy guidelines. In such an event, the Debentures are convertible into a number of common shares, determined by dividing 150% of the par value plus accrued and unpaid interest by the average common share price (as defined in the relevant prospectus supplements) subject to a minimum price of $5.00 per share (subject to adjustment in certain events as defined in the relevant prospectus supplements).
(7) Interest rate is fixed at the indicated rate until the earliest date redeemable at par by CIBC and, thereafter, at a rate of 2.57% above the three-month Canadian dollar bankers' acceptance rate.
(8) Not redeemable prior to maturity date.
(9) Interest rate is based on the six-month US$ LIBOR plus 0.25%.
(10) US$34 million (2016: US$16 million) of this issue was repurchased and cancelled during the year.
(11) Interest rate is based on the six-month US$ LIBOR plus 0.125%.
(12) US$19 million (2016: nil) of this issue was repurchased and cancelled during the year.

Note 15 | Common and preferred share capital

Common shares

CIBC's authorized capital consists of an unlimited number of common shares, without nominal or par value.

Normal course issuer bid

On March 10, 2017, we announced that the Toronto Stock Exchange (TSX) had accepted the notice of CIBC's intention to commence a normal course issuer bid (NCIB). Purchases under this bid will terminate upon the earlier of: (i) CIBC purchasing up to a maximum of 8 million common shares; (ii) CIBC providing a notice of termination; or (iii) March 13, 2018. No common shares have been purchased under this bid.

The following table shows common shares purchased and cancelled under the previously expired NCIB.

$ millions, except number of shares, as at or for the year ended October 31	**2017**		2016		2015		Total	
TSX approval date	**Number of shares**	**Amount**	Number of shares	Amount	Number of shares	Amount	Number of shares	Amount
September 16, 2015 (1)	**–**	**$ –**	3,081,300	$ 270	115,900	$ 11	3,197,200	$ 281

(1) Common shares were repurchased at an average price of $87.83 under this NCIB, including 1,400,000 common shares purchased and cancelled under a private agreement at an average price of $86.94 for a total amount of $122 million on January 8, 2016.

Preferred shares

CIBC is authorized to issue an unlimited number of Class A Preferred Shares and Class B Preferred Shares without nominal or par value, issuable in series, provided that, for each class of preferred shares, the maximum aggregate consideration for all outstanding shares, at any time does not exceed $10 billion. There are no Class B Preferred Shares currently outstanding.

Outstanding shares and dividends paid

$ millions, except number of shares and per share amounts, as at or for the year ended October 31	**2017**				2016				2015			
	Shares outstanding		**Dividends paid**		Shares outstanding		Dividends paid		Shares outstanding		Dividends paid	
	Number of shares	**Amount**	**Amount**	**$ per share**	Number of shares	Amount	Amount	$ per share	Number of shares	Amount	Amount	$ per share
Common shares	**439,329,713**	**$ 12,550**	**$ 2,121**	**$ 5.08**	397,055,398	$ 8,025	$ 1,879	$ 4.75	397,284,577	$ 7,812	$ 1,708	$ 4.30
Class A Preferred Shares												
Series 27 (1)	**–**	**–**	**–**	**–**	–	–	–	–	–	–	4	0.35
Series 29 (2)	**–**	**–**	**–**	**–**	–	–	–	–	–	–	8	0.68
Series 39 (3)	**16,000,000**	**400**	**16**	**0.98**	16,000,000	400	16	0.98	16,000,000	400	16	0.98
Series 41 (4)	**12,000,000**	**300**	**11**	**0.94**	12,000,000	300	11	0.94	12,000,000	300	10	0.82
Series 43 (5)	**12,000,000**	**300**	**11**	**0.90**	12,000,000	300	11	0.90	12,000,000	300	7	0.58
Series 45 (6)	**32,000,000**	**800**	**14**	**0.46**	–	–	–	–	–	–	–	–
		$ 1,800	**$ 52**			$ 1,000	$ 38			$ 1,000	$ 45	
Treasury shares – common shares	**(16,410)**	**$ (2)**			14,882	$ 1			6,491	$ 1		
Treasury shares – preferred shares	**(116,671)**	**(3)**			–	–			–	–		

(1) We redeemed all of our 12 million Non-cumulative Class A Preferred Shares Series 27 with a par value of $25.00 each at a redemption price of $25.00 per share for cash on January 31, 2015.
(2) We redeemed all of our 13,232,342 Non-cumulative Class A Preferred Shares Series 29 with a par value of $25.00 each at a redemption price of $25.00 per share for cash on April 30, 2015.
(3) We issued 16 million Non-cumulative Rate Reset Class A Series 39 Preferred Shares with a par value of $25.00 per share, for the gross sales proceeds of $400 million on June 11, 2014.
(4) We issued 12 million Non-cumulative Rate Reset Class A Series 41 Preferred Shares with a par value of $25.00 per share, for the gross sales proceeds of $300 million on December 16, 2014.
(5) We issued 12 million Non-cumulative Rate Reset Class A Series 43 Preferred Shares with a par value of $25.00 per share, for the gross sales proceeds of $300 million on March 11, 2015.
(6) We issued 32 million Non-cumulative Rate Reset Class A Series 45 Preferred Shares with a par value of $25.00 per share, for the gross sales proceeds of $800 million on June 2, 2017.

Preferred share rights and privileges

Class A Preferred Shares

Each series of Class A Preferred Shares bears quarterly non-cumulative dividends. Non-cumulative Rate Reset Class A Preferred Shares Series 39, 41, 43, and 45 (NVCC) are redeemable, subject to regulatory approval if required, for cash by CIBC on or after the specified redemption dates at the cash redemption prices indicated in the following table.

Non-cumulative Rate Reset Class A Preferred Shares Series 45 (NVCC) (Series 45 shares)

On June 2, 2017, we issued 32 million Series 45 shares with a par value of $25.00 per share, for gross proceeds of $800 million. For the initial five year period to the earliest redemption date of July 31, 2022, the Series 45 shares pay quarterly cash dividends, if declared, at a rate of 4.40%. On July 31, 2022, and on July 31 every five years thereafter, the dividend rate will reset to be equal to the then current five-year Government of Canada bond yield plus 3.38%.

Holders of the Series 45 shares will have the right to convert their shares on a one-for-one basis into Non-cumulative Floating Rate Class A Preferred Shares Series 46 (NVCC) (Series 46 shares), subject to certain conditions, on July 31, 2022 and on July 31 every five years thereafter. Holders of the Series 46 shares will be entitled to receive a quarterly floating rate dividend, if declared, equal to the three-month Government of Canada Treasury Bill yield plus 3.38%. Holders of the Series 46 shares may convert their shares on a one-for-one basis into Series 45 shares, subject to certain conditions, on July 31, 2027 and on July 31 every five years thereafter.

Subject to regulatory approval and certain provisions of the shares, we may redeem all or any part of the then outstanding Series 45 shares at par on July 31, 2022 and on July 31 every five years thereafter; we may redeem all or any part of the then outstanding Series 46 shares at par on July 31, 2027 and on July 31 every five years thereafter.

Non-cumulative Rate Reset Class A Preferred Shares Series 43 (NVCC) (Series 43 shares)
On March 11, 2015, we issued 12 million Series 43 shares with a par value of $25.00 per share, for gross proceeds of $300 million. For the initial five year period to the earliest redemption date of July 31, 2020, the Series 43 shares pay quarterly cash dividends, if declared, at a rate of 3.60%. On July 31, 2020, and on July 31 every five years thereafter, the dividend rate will reset to be equal to the then current five-year Government of Canada bond yield plus 2.79%.

Holders of the Series 43 shares will have the right to convert their shares on a one-for-one basis into Non-cumulative Floating Rate Class A Preferred Shares Series 44 (NVCC) (Series 44 shares), subject to certain conditions, on July 31, 2020 and on July 31 every five years thereafter. Holders of the Series 44 shares will be entitled to receive a quarterly floating rate dividend, if declared, equal to the three-month Government of Canada Treasury Bill yield plus 2.79%. Holders of the Series 44 shares may convert their shares on a one-for-one basis into Series 43 shares, subject to certain conditions, on July 31, 2025 and on July 31 every five years thereafter.

Subject to regulatory approval and certain provisions of the shares, we may redeem all or any part of the then outstanding Series 43 shares at par on July 31, 2020 and on July 31 every five years thereafter; we may redeem all or any part of the then outstanding Series 44 shares at par on July 31, 2025 and on July 31 every five years thereafter.

Non-cumulative Rate Reset Class A Preferred Shares Series 41 (NVCC) (Series 41 shares)
On December 16, 2014, we issued 12 million Series 41 shares with a par value of $25.00 per share, for gross proceeds of $300 million. For the initial five year period to the earliest redemption date of January 31, 2020, the Series 41 shares pay quarterly cash dividends, if declared, at a rate of 3.75%. On January 31, 2020, and on January 31 every five years thereafter, the dividend rate will reset to be equal to the then current five-year Government of Canada bond yield plus 2.24%.

Holders of the Series 41 shares will have the right to convert their shares on a one-for-one basis into Non-cumulative Floating Rate Class A Preferred Shares Series 42 (NVCC) (Series 42 shares), subject to certain conditions, on January 31, 2020 and on January 31 every five years thereafter. Holders of the Series 42 shares will be entitled to receive a quarterly floating rate dividend, if declared, equal to the three-month Government of Canada Treasury Bill yield plus 2.24%. Holders of the Series 42 shares may convert their shares on a one-for-one basis into Series 41 shares, subject to certain conditions, on January 31, 2025 and on January 31 every five years thereafter.

Subject to regulatory approval and certain provisions of the shares, we may redeem all or any part of the then outstanding Series 41 shares at par on January 31, 2020 and on January 31 every five years thereafter; we may redeem all or any part of the then outstanding Series 42 shares at par on January 31, 2025 and on January 31 every five years thereafter.

Non-cumulative Rate Reset Class A Preferred Shares Series 39 (NVCC) (Series 39 shares)
On June 11, 2014, we issued 16 million Series 39 shares with a par value of $25.00 per share, for gross proceeds of $400 million. For the initial five year period to the earliest redemption date of July 31, 2019, the Series 39 shares pay quarterly cash dividends, if declared, at a rate of 3.90%. On July 31, 2019, and on July 31 every five years thereafter, the dividend rate will reset to be equal to the then current five-year Government of Canada bond yield plus 2.32%.

Holders of the Series 39 shares will have the right to convert their shares on a one-for-one basis into Non-cumulative Floating Rate Class A Preferred Shares Series 40 (NVCC) (Series 40 shares), subject to certain conditions, on July 31, 2019 and on July 31 every five years thereafter. Holders of the Series 40 shares will be entitled to receive a quarterly floating rate dividend, if declared, equal to the three-month Government of Canada Treasury Bill yield plus 2.32%. Holders of the Series 40 shares may convert their shares on a one-for-one basis into Series 39 shares, subject to certain conditions, on July 31, 2024 and on July 31 every five years thereafter.

Subject to regulatory approval and certain provisions of the shares, we may redeem all or any part of the then outstanding Series 39 shares at par on July 31, 2019, and on July 31 every five years thereafter; we may redeem all or any part of the then outstanding Series 40 shares at par on July 31, 2024, and on July 31 every five years thereafter.

Series 39, Series 40, Series 41, Series 42, Series 43, Series 44, Series 45, and Series 46 shares are subject to an NVCC provision, necessary for the shares to qualify as regulatory capital under Basel III. As such, the shares are automatically converted into common shares upon the occurrence of a "Trigger Event". As described in the Capital Adequacy Guidelines, a Trigger Event occurs when OSFI determines the bank is or is about to become non-viable and, if after conversion of all contingent instruments and consideration of any other relevant factors or circumstances, it is reasonably likely that its viability will be restored or maintained; or if the bank has accepted or agreed to accept a capital injection or equivalent support from a federal or provincial government, without which OSFI would have determined the bank to be non-viable. Each such share is convertible into a number of common shares, determined by dividing the par value of $25.00 plus declared and unpaid dividends by the average common share price (as defined in the relevant prospectus supplement) subject to a minimum price of $5.00 per share (subject to adjustment in certain events as defined in the relevant prospectus supplement). We have recorded the Series 39, Series 41, Series 43, and Series 45 shares as equity.

Terms of Class A Preferred Shares

Outstanding as at October 31, 2017	Quarterly dividends per share (1)	Earliest specified redemption date	Cash redemption price per share
Series 39	$ 0.243750	July 31, 2019	$ 25.00
Series 41	$ 0.234375	January 31, 2020	$ 25.00
Series 43	$ 0.225000	July 31, 2020	$ 25.00
Series 45	$ 0.275000	July 31, 2022	$ 25.00

(1) Quarterly dividends may be adjusted depending on the timing of issuance or redemption.

Common shares issued

$ millions, except number of shares, as at or for the year ended October 31	2017		2016		2015	
	Number of shares	**Amount**	Number of shares	Amount	Number of shares	Amount
Balance at beginning of year	**397,070,280**	**$ 8,026**	397,291,068	$ 7,813	397,021,477	$ 7,782
Issuance pursuant to:						
Acquisition of The PrivateBank	**32,137,402**	**3,443**	–	–	–	–
Acquisition of Geneva Advisors	**1,204,344**	**126**	–	–	–	–
Stock option plans	**990,934**	**91**	815,767	72	356,661	30
Shareholder investment plan [1]	**6,870,584**	**749**	1,662,972	164	–	–
Employee share purchase plan [2]	**1,071,051**	**117**	373,382	37	–	–
	439,344,595	**$ 12,552**	400,143,189	$ 8,086	397,378,138	$ 7,812
Purchase of common shares for cancellation	**–**	**–**	(3,081,300)	(61)	(115,900)	(2)
Treasury shares	**(31,292)**	**(4)**	8,391	1	28,830	3
Balance at end of year [3][4]	**439,313,303**	**$ 12,548**	397,070,280	$ 8,026	397,291,068	$ 7,813

(1) Commencing with the dividends paid on October 28, 2016, the participants in the Dividend Reinvestment Option and Stock Dividend Option of the Shareholder Investment Plan received a 2% discount from average market price on dividends reinvested in additional common shares issued from Treasury. Commencing November 1, 2016, the participants in the Share Purchase Option of the Plan will receive shares issued from Treasury with no discount. Previously shares distributed under the Plan were acquired in the open market.
(2) Commencing June 29, 2016, employee contributions to our Canadian ESPP have been used to purchase common shares from Treasury. Previously these shares were acquired in the open market.
(3) Excludes 2,010,890 common shares which are issued and outstanding but which have not yet been exchanged for consideration as at October 31, 2017 (2016: nil; 2015: nil). These shares were issued in anticipation of our acquisition of The PrivateBank. These shares are currently held in trust for CIBC, and may ultimately be exchanged or cancelled at CIBC's discretion.
(4) Excludes 190,285 unvested restricted common shares as at October 31, 2017 (2016: nil; 2015: nil).

Common shares reserved for issue

As at October 31, 2017, 6,654,170 common shares (2016: 6,525,893) were reserved for future issue pursuant to stock option plans, 19,041,624 common shares (2016: 5,912,208) were reserved for future issue pursuant to the shareholder investment plan, 2,771,650 common shares (2016: 3,842,701) were reserved for future issue pursuant to the employee share purchase plan, and 1,012,992,500 common shares (2016: 851,232,500) were reserved for future issue pursuant to instruments which include an NVCC provision requiring conversion into common shares upon the occurrence of a Trigger Event as described in the capital adequacy guidelines.

Restrictions on the payment of dividends

Under Section 79 of the *Bank Act* (Canada), a bank, including CIBC, is prohibited from declaring or paying any dividends on its preferred or common shares if there are reasonable grounds for believing that the bank is, or the payment would cause it to be, in contravention of any capital adequacy or liquidity regulation or any direction to the bank made by OSFI.

In addition, our ability to pay common share dividends is also restricted by the terms of the outstanding preferred shares. These terms provide that we may not pay dividends on our common shares at any time without the approval of holders of the outstanding preferred shares, unless all dividends to preferred shareholders that are then payable have been declared and paid or set apart for payment.

We have agreed that if CIBC Capital Trust fails to pay any interest payments on its $1,300 million of CIBC Tier 1 Notes – Series A, due June 30, 2108 or its $300 million of CIBC Tier 1 Notes – Series B, due June 30, 2108, we will not declare dividends of any kind on any of our preferred or common shares for a specified period of time. For additional details see Note 16.

Currently, these limitations do not restrict the payment of dividends on our preferred or common shares.

Capital

Objectives, policy, and procedures

Our objective is to employ a strong and efficient capital base. We manage capital in accordance with a capital policy established by the Board. The policy includes specific guidelines that relate to capital strength, capital mix, dividends and return of capital, and the unconsolidated capital adequacy of regulated entities and capital is monitored continuously for compliance.

Each year, a Capital Plan and three-year outlook are established, which encompass all of the associated elements of capital: forecasts of sources and uses, maturities, redemptions, new issuance, corporate initiatives, and business growth. The Capital Plan is stress-tested in various ways to ensure that it is sufficiently robust under all reasonable scenarios. All of the elements of capital are monitored throughout the year, and the Capital Plan is adjusted as appropriate. There were no significant changes made to the objectives, policy, guidelines and procedures during the year.

Regulatory capital requirements under Basel III

Our regulatory capital requirements are determined in accordance with guidelines issued by OSFI, which are based on the risk-based capital standards developed by the Basel Committee on Banking Supervision (BCBS).

CIBC and the other domestic systemically important banks (D-SIBs) in Canada are subject to a 1% CET1 surcharge effective January 1, 2016. This results in all-in minimum targets for CET1, Tier 1 and Total capital ratios of 8.0%, 9.5%, and 11.5%, respectively. These targets may be higher for certain institutions at OSFI's discretion.

"All-in" is defined by OSFI as capital calculated to include all of the regulatory adjustments that will be required by 2019, but retaining the phase-out rules for non-qualifying capital instruments. Certain deductions from CET1 capital are phased in at 20% per year from 2014. Amounts not yet deducted from capital under OSFI's transitional rules are risk weighted, creating a difference between risk-weighted assets (RWAs) on a transitional and all-in basis.

Regulatory capital and ratios

Regulatory capital under Basel III consists of CET1, Tier 1 and Tier 2 capital.

CET1 capital includes common shares, retained earnings, AOCI (excluding AOCI relating to cash flow hedges and changes to FVO liabilities attributable to changes in own credit risk), and qualifying instruments issued by a consolidated banking subsidiary to third parties, less regulatory adjustments for items such as goodwill and other intangible assets (net of related deferred tax liabilities), certain deferred tax assets, net assets related to defined benefit pension plans as reported on our consolidated balance sheet (net of related deferred tax liabilities), and certain investments. Additional Tier 1 (AT1) capital primarily includes NVCC preferred shares, qualifying instruments issued by a consolidated subsidiary to third parties, and non-qualifying innovative Tier 1 notes subject to phase-out rules for capital instruments. Tier 2 capital includes NVCC subordinated indebtedness, non-qualifying subordinated indebtedness subject to phase-out rules for capital instruments, eligible collective allowance under the standardized approach, and qualifying instruments issued by a consolidated subsidiary to third parties.

Our capital ratios and leverage ratio are presented in the table below:

$ millions, as at October 31		2017	2016
Transitional basis			
CET1 capital		**$ 23,254**	$ 20,751
Tier 1 capital	A	**25,198**	22,596
Total capital		**28,594**	25,949
RWA [1]		**207,910**	173,902
CET1 ratio		**11.2 %**	11.9 %
Tier 1 capital ratio		**12.1 %**	13.0 %
Total capital ratio		**13.8 %**	14.9 %
Leverage ratio exposure	B	**$ 610,769**	$ 546,136
Leverage ratio	A/B	**4.1 %**	4.1 %
All-in basis			
CET1 capital		**$ 21,618**	$ 19,148
Tier 1 capital	C	**24,682**	21,666
Total capital		**28,129**	25,083
CET1 capital RWA [1]		**203,321**	168,996
Tier 1 capital RWA [1]		**203,321**	169,322
Total capital RWA [1]		**203,321**	169,601
CET1 ratio		**10.6 %**	11.3 %
Tier 1 capital ratio		**12.1 %**	12.8 %
Total capital ratio		**13.8 %**	14.8 %
Leverage ratio exposure	D	**$ 610,353**	$ 545,480
Leverage ratio	C/D	**4.0 %**	4.0 %

(1) On an all-in basis, before any capital floor requirement as applicable, there are three different levels of RWAs for the calculation of the CET1, Tier 1, and Total capital ratios arising from the option CIBC has chosen for the phase-in of the CVA capital charge. Since the introduction of Basel II in 2008, OSFI has prescribed a capital floor requirement for institutions that use the AIRB approach for credit risk. The capital floor is determined by comparing a capital requirement under Basel I and Basel III, as specified by OSFI. Any shortfall in the Basel III capital requirement compared with the Basel I requirement is added to the RWAs. All-in RWAs as at October 31, 2017 include a capital floor adjustment, while the transitional RWAs as at October 31, 2017 and 2016 include capital floor adjustments.

During the years ended October 31, 2017 and 2016, we have complied with OSFI's regulatory capital requirements.

Note 16 | Capital Trust securities

On March 13, 2009, CIBC Capital Trust, a trust wholly owned by CIBC and established under the laws of the Province of Ontario, issued $1,300 million of CIBC Tier 1 Notes – Series A, due June 30, 2108, and $300 million of CIBC Tier 1 Notes – Series B, due June 30, 2108 (collectively, the Notes). CIBC Capital Trust is not consolidated by CIBC and the senior deposit notes issued by CIBC to CIBC Capital Trust are reported as Deposits – Business and government on the consolidated balance sheet.

The Notes are structured to achieve Tier 1 regulatory capital treatment and, as such, have features of equity capital, including the deferral of cash interest under certain circumstances (Deferral Events). In the case of a Deferral Event, holders of the Notes will be required to invest interest paid on the Notes in our perpetual preferred shares. Should CIBC Capital Trust fail to pay the semi-annual interest payments on the Notes in full, we will not declare dividends of any kind on any of our preferred or common shares for a specified period of time.

In addition, the Notes will be automatically exchanged for our perpetual preferred shares upon the occurrence of any one of the following events: (i) proceedings are commenced for our winding-up; (ii) OSFI takes control of us or our assets; (iii) we or OSFI are of the opinion that our Tier 1 capital ratio is less than 5% or our Total capital ratio is less than 8%; or (iv) OSFI directs us pursuant to the *Bank Act* (Canada) to increase our capital or provide additional liquidity and we elect such automatic exchange or we fail to comply with such direction. Upon such automatic exchange, holders of the Notes will cease to have any claim or entitlement to interest or principal against CIBC Capital Trust.

CIBC Tier 1 Notes – Series A pays interest, at a rate of 9.976%, semi-annually until June 30, 2019. On June 30, 2019, and on each five-year anniversary thereafter, the interest rate on the CIBC Tier 1 Notes – Series A will reset to the five-year Government of Canada bond yield at such time plus 10.425%. CIBC Tier 1 Notes – Series B pays interest, at a rate of 10.25%, semi-annually until June 30, 2039. On June 30, 2039, and on each five-year anniversary thereafter, the interest rate on the CIBC Tier 1 Notes – Series B will reset to the five-year Government of Canada bond yield at such time plus 9.878%.

Subject to the approval of OSFI, CIBC Capital Trust may, in whole or in part, on the redemption dates specified in the table below, and on any date thereafter, redeem the CIBC Tier 1 Notes – Series A or Series B without the consent of the holders. Also, subject to the approval of OSFI, CIBC Capital Trust may redeem all, but not part of, the CIBC Tier 1 Notes – Series A or Series B prior to the earliest redemption date specified in the table below without the consent of the holders, upon the occurrence of certain specified tax or regulatory events.

OSFI's capital adequacy guidelines confirmed the adoption of Basel III in Canada and clarified the treatment of non-qualifying capital instruments. Non-qualifying capital instruments are subject to a 10% phase-out per annum commencing in 2013. Banks are expected to develop and maintain a redemption schedule for non-qualifying capital instruments that gives priority to redeeming instruments at their regular par redemption dates before exercising any regulatory event redemption rights. With the adoption of Basel III, innovative capital instruments such as the CIBC Tier 1 Notes are considered non-qualifying capital instruments. We expect to exercise our regulatory event redemption rights in fiscal 2022 in respect of the $300 million CIBC Tier 1 Notes – Series B.

The table below presents the significant terms and conditions of the Notes. As at October 31, 2017, we held $2 million in net short trading positions (2016: nil) of the Notes.

$ millions, as at October 31							2017	2016
				Earliest redemption dates			Principal amount	
	Issue date	Interest payment dates	Yield	At greater of Canada Yield Price and par [1]	At par			
Series A	March 13, 2009	June 30, December 31	9.976 %	June 30, 2014	June 30, 2019		$ 1,300	$ 1,300
Series B	March 13, 2009	June 30, December 31	10.250 %	June 30, 2014	June 30, 2039		300	300
							$ 1,600	$ 1,600

(1) Canada Yield Price: a price calculated at the time of redemption (other than an interest rate reset date applicable to the series) to provide a yield to maturity equal to the yield on a Government of Canada bond of appropriate maturity plus: (i) for the CIBC Tier 1 Notes – Series A, (a) 1.735% if the redemption date is any time prior to June 30, 2019, or (b) 3.475% if the redemption date is any time on or after June 30, 2019; and (ii) for the CIBC Tier 1 Notes – Series B, (a) 1.645% if the redemption date is any time prior to June 30, 2039, or (b) 3.29% if the redemption date is any time on or after June 30, 2039.

Note 17 | Interest rate sensitivity

The table below details our exposure to interest rate risk resulting from the mismatch, or gap, relating to trading and non-trading financial assets, liabilities, and derivative off-balance sheet instruments. On- and off-balance sheet financial instruments have been reported on the earlier of their contractual repricing date or maturity date. Certain contractual repricing dates have been adjusted according to management's estimates for prepayments and early redemptions.

We manage interest rate gap by imputing a duration to certain assets and liabilities based on historical and forecasted trends in core balances. The repricing profile of these assets and liabilities has been incorporated in the table below.

		Based on earlier of maturity or repricing date of interest rate sensitive instruments						
$ millions, as at October 31	Immediately rate sensitive	Within 3 months	3 – 12 months	1 – 5 years	Over 5 years	Non-interest rate sensitive	Total
2017 [1]							
Assets							
Cash and deposits with banks	$ –	$ 10,668	$ 44	$ –	$ –	$ 3,440	$ 14,152
Trading securities	–	1,690	3,113	5,428	9,424	31,024	50,679
AFS and HTM securities	–	19,144	2,888	12,685	7,406	469	42,592
FVO securities	–	–	–	–	148	–	148
Securities borrowed or purchased under resale agreements	–	42,853	2,565	–	–	–	45,418
Loans	123,695	71,625	64,410	91,720	2,507	2,777	356,734
Other	–	28,761	–	–	–	26,780	55,541
Structural assumptions	(7,926)	1,986	7,163	9,721	–	(10,944)	–
Total assets	$ 115,769	$ 176,727	$ 80,183	$ 119,554	$ 19,485	$ 53,546	$ 565,264
Liabilities and equity							
Deposits	$ 157,559	$ 105,634	$ 46,797	$ 59,635	$ 6,656	$ 63,425	$ 439,706
Obligations related to securities sold short	–	140	477	5,588	4,306	3,202	13,713
Obligations related to securities lent or sold under repurchase agreements	–	29,943	52	–	–	–	29,995
Subordinated indebtedness	–	85	658	993	1,473	–	3,209
Other	–	26,930	–	–	–	20,474	47,404
Equity	–	–	–	1,797	–	29,440	31,237
Structural assumptions	(27,291)	8,347	30,076	40,438	–	(51,570)	–
Total liabilities and equity	$ 130,268	$ 171,079	$ 78,060	$ 108,451	$ 12,435	$ 64,971	$ 565,264
On-balance sheet gap	$ (14,499)	$ 5,648	$ 2,123	$ 11,103	$ 7,050	$ (11,425)	$ –
Off-balance sheet gap	–	16,106	(6,537)	(1,371)	(8,198)	–	–
Total gap	$ (14,499)	$ 21,754	$ (4,414)	$ 9,732	$ (1,148)	$ (11,425)	$ –
Total cumulative gap	$ (14,499)	$ 7,255	$ 2,841	$ 12,573	$ 11,425	$ –	$ –
Gap by currency							
On-balance sheet gap							
Canadian currency	$ 5,460	$ (36,480)	$ 11,352	$ 26,293	$ 2,144	$ (8,769)	$ –
Foreign currencies	(19,959)	42,128	(9,229)	(15,190)	4,906	(2,656)	–
Total on-balance sheet gap	$ (14,499)	$ 5,648	$ 2,123	$ 11,103	$ 7,050	$ (11,425)	$ –
Off-balance sheet gap							
Canadian currency	$ –	$ 22,124	$ (4,077)	$ (14,877)	$ (3,170)	$ –	$ –
Foreign currencies	–	(6,018)	(2,460)	13,506	(5,028)	–	–
Total off-balance sheet gap	$ –	$ 16,106	$ (6,537)	$ (1,371)	$ (8,198)	$ –	$ –
Total gap	$ (14,499)	$ 21,754	$ (4,414)	$ 9,732	$ (1,148)	$ (11,425)	$ –
2016 Gap by currency							
On-balance sheet gap							
Canadian currency	$ 10,128	$ (43,547)	$ 1,146	$ 22,919	$ 3,303	$ 6,051	$ –
Foreign currencies	(8,295)	31,867	(11,034)	(9,337)	(2,116)	(1,085)	–
Total on-balance sheet gap	$ 1,833	$ (11,680)	$ (9,888)	$ 13,582	$ 1,187	$ 4,966	$ –
Off-balance sheet gap							
Canadian currency	$ –	$ 9,963	$ 7,313	$ (13,538)	$ (3,738)	$ –	$ –
Foreign currencies	–	(23,420)	10,063	10,891	2,466	–	–
Total off-balance sheet gap	$ –	$ (13,457)	$ 17,376	$ (2,647)	$ (1,272)	$ –	$ –
Total gap	$ 1,833	$ (25,137)	$ 7,488	$ 10,935	$ (85)	$ 4,966	$ –

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

Note 18 | Share-based payments

We provide the following share-based compensation to certain employees and directors in the form of cash-settled or equity-settled awards.

Restricted share award plan

Under the RSA plan, share unit equivalents (RSA units) are granted to certain key employees on an annual basis or during the year as special grants. RSA grants are made in the form of cash-settled awards which generally vest and settle in cash at the end of three years or one-third annually beginning one year after the date of the grant. Dividend equivalents on RSA units are paid in cash or in the form of additional RSA units to the employees over or at the end of the vesting period or settlement date.

Grant date fair value of each cash-settled RSA unit granted as part of the acquisition of The PrivateBank was based on a 10-day average volume-weighted share price prior to the acquisition date. Grant date fair value of each cash-settled RSA unit granted in the normal course is calculated based on the average closing price per common share on the TSX for the 10 trading days prior to a date specified in the grant terms. Upon vesting, each RSA unit is settled in cash based on the average closing price per common share on the TSX for the 10 trading days prior to the vesting date.

During the year, 4,331,700 RSAs were granted at a weighted-average price of $105.67 (2016: 2,320,497 granted at a weighted-average price of $99.99; 2015: 1,976,578 granted at a weighted-average price of $104.55) and the number of RSAs outstanding as at October 31, 2017 was 7,590,852 (2016: 5,422,030; 2015: 5,210,234). Compensation expense in respect of RSAs, before the impact of hedging, totalled $323 million in 2017 (2016: $218 million; 2015: $231 million). As at October 31, 2017, liabilities in respect of RSAs were $720 million (2016: $518 million).

Performance share unit plan

Under the PSU plan, awards are granted to certain key employees on an annual basis in December. PSU grants are made in the form of cash-settled awards which vest and settle in cash at the end of three years. Dividend equivalents on PSUs granted prior to December 2015 are paid in cash to the employees over the vesting period. For PSUs granted in December 2015 and later, employees receive dividend equivalents in the form of additional PSUs.

Grant date fair value of each cash-settled PSU is calculated based on the average closing price per common share on the TSX for the 10 trading days prior to a date specified in the grant terms. The final number of PSUs that vest will range from 75% to 125% of the initial number awarded based on CIBC's performance relative to the other major Canadian banks. Upon vesting, each PSU is settled in cash based on the average closing price per common share on the TSX for the 10 trading days prior to the vesting date.

During the year, 952,434 PSUs were granted at a weighted-average price of $105.15 (2016: 905,028 granted at a weighted-average price of $99.86; 2015: 745,080 granted at a weighted-average price of $105.24). As at October 31, 2017, the number of PSUs outstanding, before the impact of CIBC's relative performance, was 2,651,991 (2016: 2,507,808; 2015: 2,365,896). Compensation expense in respect of PSUs, before the impact of hedging, totalled $128 million in 2017 (2016: $93 million; 2015: $112 million). As at October 31, 2017, liabilities in respect of PSUs were $287 million (2016: $261 million).

Restricted stock plan

As part of the acquisition of The PrivateBank, CIBC restricted stock was issued to replace previously issued PrivateBancorp restricted stock held by employees of The PrivateBank with substantially the same terms and vesting schedule. Under the restricted stock plan, awards were granted to certain key employees in the form of equity-settled awards. Pursuant to the acquisition, each restricted stock represents a CIBC common share with transferability restriction. The common shares are not restricted to voting rights, but dividends are subject to forfeiture under the terms of the grant. Dividends are payable in cash and are distributed to the holders to the extent and at the same time the underlying shares vest and are released from restriction. The transfer restrictions generally vest over a three year period and vesting is contingent upon continued employment. At the acquisition date, restricted stock was granted at a 10-day average volume-weighted share price of US$80.09 and the number of restricted stock outstanding as at October 31, 2017 was 190,285. Compensation expense in respect of restricted stock totalled $2 million in 2017.

Book value unit plan

Under the BVU plan, certain key executives were granted awards denominated in BVUs. BVU grants were made in the form of cash-settled awards which vest and settle in cash at the end of three years. Each unit represents the right to receive a cash payment equal to the vesting price per unit, the value of which is related to the book value of CIBC on a per common share basis. The final number of BVUs that vest are adjusted for new issues of, re-purchases of, or dividends paid on common shares. BVU plan awards were granted beginning in December 2009 with the last award granted in December 2012, which vested in December 2015. There are no outstanding BVUs as at October 31, 2017.

Grant date fair value of each BVU was calculated based on the book value per common share on the last day of the previous fiscal quarter.

Compensation expense in respect of BVUs totalled nil in 2017 (2016: $1 million; 2015: $4 million). As at October 31, 2017, liabilities in respect of BVUs were nil (2016: nil).

Deferred share unit plan / Deferred compensation plan

Under the DSU plan, certain key employees are granted DSUs during the year as special grants. Under the DSU and the DCP plan assumed through the acquisition of The PrivateBank, certain employees can also elect to receive DSUs in exchange for cash compensation that they would otherwise be entitled to. DSUs vest in accordance with the vesting schedule defined in the grant agreement or plan document and settle in cash on a date elected by the employee that is not less than two years after the deferral commitment, or after the employee leaves CIBC in a lump sum payment or up to 10 annual installments. Employees receive dividend equivalents in the form of additional DSUs.

Grant date fair value of each cash-settled DSU that is not granted under the DCP, is calculated based on the average closing price per common share on the TSX for the 10 trading days prior to a date specified in the grant terms. Upon payout, these DSUs are settled in cash based on the average closing price per common share on the TSX for the 10 trading days prior to the employee's termination of employment date. For the DCP plan, the grant date fair value for units issued as part of the acquisition of The PrivateBank was based on a 10-day average volume-weighted share price prior to the acquisition date. The grant date fair value for subsequent DCP grants is based on the closing stock price on the New York Stock Exchange (NYSE) on the last day of the quarter. Upon distribution, each DSU is settled in cash based on the average closing price per common share on the NYSE for the 10 trading days prior to the date of the distribution.

During the year, 198,301 DSUs were granted at a weighted-average price of $106.21 (2016: 14,326 granted at a weighted-average price of $99.86; 2015: 196 granted at a weighted-average price of $96.74) and the number of DSUs outstanding as at October 31, 2017 was 248,032 (2016: 45,410; 2015: 29,463). Compensation expense in respect of DSUs, before the impact of hedging, totalled $20 million in 2017 (2016: $9 million; 2015: $4 million). As at October 31, 2017, liabilities in respect of DSUs were $42 million (2016: $13 million).

Directors' plans

Under the Director DSU/Common Share Election Plan, each director who is not an officer or employee of CIBC may elect to receive the annual equity retainer as either DSUs or common shares.

Under the Non-Officer Director Share Plan, each non-officer director may elect to receive all or a portion of their remuneration in the form of cash, common shares or DSUs.

The value of DSUs credited to a director is payable when he or she is no longer a director or employee of CIBC or of an affiliate of CIBC. In addition, for directors subject to section 409A of the U.S. Internal Revenue Code of 1986, as amended, the director is not providing any services to CIBC or any member of its controlled group as an independent contractor. In addition, under the Director DSU/Common Share Election Plan, the value of DSUs is payable when the director is no longer related to, or affiliated with, CIBC as defined in the *Income Tax Act* (Canada).

Other non-interest expense in respect of the DSU components of these plans, totalled $5 million in 2017 (2016: $2 million; 2015: $2 million). As at October 31, 2017, liabilities in respect of DSUs were $22 million (2016: $17 million).

Stock option plans

A maximum of 42,834,500 common shares may be issued under our ESOP and Non-Officer Director Stock Option Plan (DSOP). During the year, an additional 1,119,211 common shares were reserved for issue pursuant to the acquisition of The PrivateBank. Upon acquisition of The PrivateBank, each PrivateBancorp outstanding and unexercised option was converted into an option to purchase CIBC shares pursuant to the terms specified in the merger agreement.

As at October 31, 2017, 6,654,170 (2016: 6,525,893) common shares were reserved for future issue under our stock option plans. Stock options in respect of 4,876,673 (2016: 4,073,451) common shares have been granted but not yet exercised under the ESOP. No stock options under the DSOP remain outstanding. 1,777,497 (2016: 2,452,442) common shares remain available for future stock option grants.

Under the ESOP, stock options are periodically granted to certain key employees. Options provide the employee with the right to purchase common shares from CIBC at a fixed price not less than the closing price of the shares on the trading day immediately preceding the grant date. In general, the options vest by the end of the fourth year and expire 10 years from the grant date.

The fair value of in-the-money options granted as part of the acquisition of The PrivateBank approximated their intrinsic value.

The fair value of other options granted during the year were measured at the grant date using the Black-Scholes option pricing model. Model assumptions are based on observable market data for the risk-free interest rate and dividend yield; contractual terms for the exercise price; and historical experience for expected life. Volatility assumptions are best estimates of market implied volatility matching the exercise price and expected life of the options.

The following weighted-average assumptions were used as inputs into the Black-Scholes option pricing model to determine the fair value of options on the date of grant, excluding the options granted pursuant to the acquisition of The PrivateBank:

For the year ended October 31	**2017**	2016	2015
Weighted-average assumptions			
Risk-free interest rate	**1.58 %**	1.34 %	1.98 %
Expected dividend yield	**5.75 %**	6.14 %	4.96 %
Expected share price volatility	**14.53 %**	17.26 %	17.97 %
Expected life	**6 years**	6 years	6 years
Share price/exercise price	**$ 110.83**	$ 97.73	$ 101.87

For 2017, the weighted-average grant date fair value of options, excluding the options granted pursuant to the acquisition of The PrivateBank, was $5.31 (2016: $5.12; 2015: $8.59). The weighted-average grant date fair value of options granted pursuant to the acquisition of The PrivateBank was $63.75.

Compensation expense in respect of stock options totalled $5 million in 2017 (2016: $5 million; 2015: $5 million).

Stock option plans

As at or for the year ended October 31	**2017**		2016		2015	
	Number of stock options	**Weighted-average exercise price** [1]	Number of stock options	Weighted-average exercise price	Number of stock options	Weighted-average exercise price
Outstanding at beginning of year	**4,073,451**	**$ 86.92**	4,100,310	$ 82.62	3,945,032	$ 78.70
Granted	**1,935,997**	**75.83**	804,923	97.73	610,247	101.87
Exercised [2]	**(990,934)**	**76.78**	(815,767)	75.86	(356,661)	74.30
Forfeited	**(133,581)**	**99.77**	(13,380)	91.99	(40,205)	81.33
Cancelled/expired	**(8,260)**	**58.99**	(2,635)	87.36	(58,103)	70.60
Outstanding at end of year	**4,876,673**	**$ 84.28**	4,073,451	$ 86.92	4,100,310	$ 82.62
Exercisable at end of year	**1,988,449**	**$ 64.28**	1,485,607	$ 74.94	1,542,681	$ 74.71
Available for grant	**1,777,497**		2,452,442		3,241,350	

(1) For foreign currency-denominated options granted and exercised during the year, the weighted average exercise prices are translated using exchange rates as at the grant date and settlement date, respectively. The weighted-average exercise price of outstanding balances as at October 31, 2017 reflects the conversion of foreign currency-denominated options at the year-end exchange rate.

(2) The weighted-average share price at the date of exercise was $110.44 (2016: $99.66; 2015: $98.21).

Stock options outstanding and vested

As at October 31, 2017	Stock options outstanding			Stock options vested	
Range of exercise prices	Number outstanding	Weighted-average contractual life remaining	Weighted-average exercise price	Number outstanding	Weighted-average exercise price
$11.00 – $55.00	689,714	3.42	$ 36.50	689,714	$ 36.50
$55.01 – $65.00	305,519	7.22	59.18	27,146	61.36
$65.01 – $75.00	423,893	3.42	71.22	422,745	71.22
$75.01 – $85.00	564,846	4.41	79.73	564,351	79.74
$85.01 – $95.00	683,986	6.21	90.76	281,557	90.82
$95.01 – $105.00	1,286,026	7.59	99.68	2,936	99.68
$105.01 – $115.00	922,689	9.19	110.80	–	–
	4,876,673	6.35	$ 84.28	1,988,449	$ 64.28

Employee share purchase plan

Under our Canadian ESPP, qualifying employees can choose each year to have any portion of their eligible earnings withheld to purchase common shares. We match 50% of the employee contribution amount, up to a maximum contribution of 3% of eligible earnings, subject to a ceiling of $2,250 annually. CIBC contributions vest after employees have two years of continuous participation in the plan, and all subsequent contributions vest immediately. Similar programs exist in other regions globally, where each year qualifying employees can choose to have a portion of their eligible earnings withheld to purchase common shares and receive a matching employer contribution subject to each plan's provisions. Commencing June 29, 2016, employee contributions to our ESPP have been used to purchase common shares from Treasury. Previously these shares were acquired in the open market. CIBC FirstCaribbean operates an ESPP locally, in which contributions are used by the plan trustee to purchase CIBC FirstCaribbean common shares in the open market.

Our contributions are expensed as incurred and totalled $43 million in 2017 (2016: $40 million; 2015: $36 million).

Hedging

We use derivatives in a designated cash flow hedge relationship to hedge changes in CIBC's share price in respect of cash-settled share-based compensation under the RSA and PSU plans.

During the year, we recorded gains of $128 million (2016: $22 million; 2015: $30 million) as a credit to compensation expense in the consolidated statement of income in respect of these derivatives. As at October 31, 2017, the ending AOCI balance in respect of the designated accounting hedges totalled a credit of $30 million (2016: $6 million).

Note 19 | Post-employment benefits

We sponsor pension and other post-employment benefit plans for eligible employees in a number of jurisdictions including Canada, the U.S., the U.K., and the Caribbean. Our pension plans include registered funded defined benefit pension plans, supplemental arrangements that provide pension benefits in excess of statutory limits, and defined contribution plans. We also provide certain health-care, life insurance, and other benefits to eligible employees and retired members. Plan assets and defined benefit obligations related to our defined benefit plans are measured for accounting purposes as at October 31 each year.

Plan characteristics, funding and risks

Pension plans

Pension plans include CIBC's Canadian, U.S., U.K., and Caribbean pension plans. CIBC's Canadian pension plans represent approximately 90% of our consolidated net defined benefit pension assets and liabilities and net defined benefit pension expense. All of our Canadian pension plans are defined benefit plans, the most significant of which is our principal Canadian pension plan (the CIBC Pension Plan), which encompasses approximately 62,000 active, deferred, and retired members.

The CIBC Pension Plan provides members with monthly pension income at retirement based on a prescribed plan formula which is based on a combination of maximum yearly pensionable earnings, average earnings at retirement and length of service recognized in the plan. There is a two-year waiting period for members to join the CIBC Pension Plan.

The CIBC Pension Plan is funded through a separate trust. Actuarial funding valuations are prepared by the Plan's external actuary at least once every three years or more frequently as required by Canadian pension legislation to determine CIBC's minimum funding requirements as well as maximum permitted contributions. Any deficits determined in the funding valuations must generally be funded over a period not exceeding fifteen years. CIBC's pension funding policy is to make at least the minimum annual required contributions required by regulations; any contributions in excess of the minimum requirements are discretionary.

The CIBC Pension Plan is registered with OSFI and the Canada Revenue Agency and is subject to the acts and regulations that govern federally regulated pension plans.

Other post-employment plans

Other post-employment plans include CIBC's Canadian, U.S. and Caribbean post-retirement health-care benefit plans (referred to for disclosure purposes as other post-employment plans). CIBC's Canadian other post-employment plan (the Canadian post-employment plan) represents more than 90% of our consolidated other post-employment defined benefit obligation and net other post-employment defined benefit expense.

The Canadian post-employment plan provides medical, dental and life insurance benefits to retirees that meet specified eligibility requirements, including specified age and service period eligibility requirements. CIBC reimburses 100% of the cost of benefits for eligible employees that retired prior to January 1, 2009, whereas the contribution level for medical and dental benefits for eligible employees that retire subsequent to this date has been fixed at a specified level. The plan is funded on a pay as-you-go basis.

Benefit changes

There were no material changes to the terms of our defined benefit pension or other post-employment plans in 2017 or 2016.

Risks

CIBC's defined benefit plans expose the group to actuarial risks (such as longevity risk), currency risk, interest rate risk, market (investment) risk and health-care cost inflation risks.

The use of derivatives within the CIBC pension plan is governed by the derivatives policy that was approved by the Pension Benefits Management Committee (PBMC) and Management Resources and Compensation Committee (MRCC) of the Board, and which permits the use of derivatives to manage risk at the discretion of the Pension Investment Committee (PIC). Risk reduction and mitigation strategies may include hedging of interest rate, currency, credit spread and/or equity risks. The derivatives policy also permits the use of derivatives to enhance plan returns.

The CIBC pension plan manages its foreign currency exposure currently by utilizing a passive overlay strategy to reduce the aggregate currency exposure.

Plan governance

All of CIBC's pension arrangements are governed by local pension committees, senior management or a board of trustees; however, all significant plan changes require approval from the MRCC. For the Canadian pension plans, the MRCC is also responsible for the establishment of the investment policies (such as asset mix, permitted investments, and use of derivatives), reviewing performance including funded status, and approving material plan design or governance changes.

While specific investment policies are determined at a plan level to reflect the unique characteristics of each plan, common investment policies for all plans include the optimization of the risk-return relationship using a portfolio of multiple asset classes diversified by market segment, economic sector, and issuer. The objectives are to secure the benefits promised by our funded plans, to maximize long-term investment returns while not compromising the benefit security of the respective plans, manage the level of funding contributions in conjunction with the stability of the funded status, and implement all policies in a cost effective manner. Investments in quoted debt and equity (held either directly or indirectly through investment funds) represent the most significant asset allocations.

The use of derivatives is limited to the purposes and instruments described in the derivatives policy of the CIBC Pension Plan. These include the synthetic return of debt or equity instruments, currency hedging, risk reduction and enhancement of returns.

Investments in specific asset classes are further diversified across funds, managers, strategies, sectors and geographies, depending on the specific characteristics of each asset class.

The exposure to any one of these asset classes will be determined by our assessment of the needs of the plan assets and economic and financial market conditions. Factors evaluated before adopting the asset mix include demographics, cash-flow payout requirements, liquidity requirements, actuarial assumptions, expected benefit increases, and corporate cash flows.

Management of the assets of the various Canadian plans has been delegated primarily to the PIC, which is a committee that is composed of CIBC management. The PIC is responsible for the appointment and termination of individual investment managers (which includes CIBC Asset Management Inc., a wholly owned subsidiary of CIBC), who each have investment discretion within established target asset mix ranges as set by the MRCC. Should a fund's actual asset mix fall outside specified ranges, the assets are re-balanced as required to be within the target asset mix ranges. On a periodic basis, an Asset-Liability Matching study is performed in which the consequences of the strategic investment policies are analyzed.

Management of the actuarial valuations of the various Canadian plans is primarily the responsibility of the Pension Finance & Administration Committee (PFAC). The PFAC is responsible for approving the actuarial assumptions for the valuations of the plans, and for recommending the level of annual funding for the Canadian plans to CIBC senior management.

Local committees with similar mandates manage our non-Canadian plans and annually report back to the MRCC on all material governance activities.

Amounts recognized on the consolidated balance sheet

The following tables present the financial position of our defined benefit pension and other post-employment plans for Canada, the U.S., the U.K., and our Caribbean subsidiaries. Other minor plans operated by some of our subsidiaries are not material and are not included in these disclosures.

	Pension plans		Other post-employment plans	
$ millions, as at or for the year ended October 31	**2017**	2016	**2017**	2016
Defined benefit obligation				
Balance at beginning of year	**$ 7,418**	$ 6,534	**$ 725**	$ 652
Current service cost	**214**	185	**14**	11
Past service cost	**(5)**	(8)	**–**	2
Interest cost on defined benefit obligation	**272**	292	**25**	28
Employee contributions	**6**	6	**–**	–
Benefits paid	**(350)**	(308)	**(30)**	(29)
Special termination benefits	**2**	3	**–**	–
Foreign exchange rate changes	**(15)**	(20)	**(2)**	1
Net actuarial losses (gains) on defined benefit obligation	**71**	734	**(36)**	60
Balance at end of year	**$ 7,613**	$ 7,418	**$ 696**	$ 725
Plan assets				
Fair value at beginning of year	**$ 7,458**	$ 6,997	**$ –**	$ –
Interest income on plan assets [1]	**279**	319	**–**	–
Net actuarial gains (losses) on plan assets [1]	**221**	237	**–**	–
Employer contributions	**167**	241	**30**	29
Employee contributions	**6**	6	**–**	–
Benefits paid	**(350)**	(308)	**(30)**	(29)
Plan administration costs	**(6)**	(6)	**–**	–
Net transfer out	**(1)**	(1)	**–**	–
Foreign exchange rate changes	**(16)**	(27)	**–**	–
Fair value at end of year	**$ 7,758**	$ 7,458	**$ –**	$ –
Net defined benefit asset (liability)	**145**	40	**(696)**	(725)
Valuation allowance [2]	**(11)**	(18)	**–**	–
Net defined benefit asset (liability), net of valuation allowance	**$ 134**	$ 22	**$ (696)**	$ (725)

(1) The actual return on plan assets for the year was $500 million (2016: $556 million).

(2) The valuation allowance reflects the effect of asset ceiling on plans with a net defined benefit asset.

The net defined benefit asset (liability), net of valuation allowance, included in other assets and other liabilities is as follows:

	Pension plans		Other post-employment plans	
$ millions, as at October 31	**2017**	2016	**2017**	2016
Other assets	**$ 199**	$ 187	**$ –**	$ –
Other liabilities [1]	**(65)**	(165)	**(696)**	(725)
	$ 134	$ 22	**$ (696)**	$ (725)

(1) Excludes $1 million of other assets (2016: nil) and $5 million (2016: $4 million) of other liabilities for other post-employment plans of immaterial subsidiaries.

The defined benefit obligation and plan assets by region are as follows:

	Pension plans		Other post-employment plans	
$ millions, as at October 31	**2017**	2016	**2017**	2016
Defined benefit obligation				
Canada	**$ 6,932**	$ 6,734	**$ 646**	$ 672
U.S., U.K., and the Caribbean	**681**	684	**50**	53
Defined benefit obligation at the end of year	**$ 7,613**	$ 7,418	**$ 696**	$ 725
Plan assets				
Canada	**$ 6,971**	$ 6,676	**$ –**	$ –
U.S., U.K., and the Caribbean	**787**	782	**–**	–
Plan assets at the end of year	**$ 7,758**	$ 7,458	**$ –**	$ –

Amounts recognized in the consolidated statement of income

The net defined benefit expense for our defined benefit plans in Canada, the U.S., the U.K., and the Caribbean is as follows:

	Pension plans			Other post-employment plans		
$ millions, for the year ended October 31	**2017**	2016	2015	**2017**	2016	2015
Current service cost [1]	**$ 214**	$ 185	$ 210	**$ 14**	$ 11	$ 13
Past service cost	**(5)**	(8)	(12)	**–**	2	–
Interest cost on defined benefit obligation	**272**	292	291	**25**	28	30
Interest income on plan assets	**(279)**	(319)	(299)	**–**	–	–
Interest cost on effect of asset ceiling	**1**	1	1	**–**	–	–
Plan administration costs	**6**	6	5	**–**	–	–
Gain on settlements	**–**	–	(4)	**–**	–	–
Special termination benefits	**2**	3	8	**–**	–	–
Net defined benefit plan expense recognized in net income	**$ 211**	$ 160	$ 200	**$ 39**	$ 41	$ 43

(1) The 2017 and 2016 current service costs were calculated using separate discount rates of 3.72% and 4.57%, respectively, to reflect the longer duration of future benefits payments associated with the additional year of service to be earned by the plan's active participants. Previously, the current service cost was calculated using the same discount rate used to measure the defined benefit obligation for both active and retired participants. The impact of the change was not significant.

Amounts recognized in the consolidated statement of comprehensive income

The net remeasurement gains (losses) recognized in OCI for our defined benefit plans in Canada, the U.S., the U.K., and the Caribbean is as follows:

	Pension plans			Other post-employment plans		
$ millions, for the year ended October 31	**2017**	2016	2015	**2017**	2016	2015
Actuarial gains (losses) on defined benefit obligation arising from:						
Demographic assumptions	**$ 1**	$ 2	$ 251	**$ 26**	$ –	$ 84
Financial assumptions	**19**	(730)	201	**5**	(70)	15
Experience assumptions	**(91)**	(6)	23	**5**	10	(4)
Net actuarial gains on plan assets	**221**	237	(62)	**–**	–	–
Changes in asset ceiling excluding interest income	**8**	1	1	**–**	–	–
Net remeasurement gains (losses) recognized in OCI [1]	**$ 158**	$ (496)	$ 414	**$ 36**	$ (60)	$ 95

(1) Excludes net remeasurement losses recognized in OCI in respect of immaterial subsidiaries not included in the disclosures totalling $1 million (2016: $17 million of net gains; 2015: $6 million of net losses).

Canadian defined benefit plans

As the Canadian defined benefit pension and other post-employment benefit plans represent approximately 90% of our consolidated net defined benefit assets and liabilities and net defined benefit pension expense, they are the subject and focus of the disclosures in the balance of this note.

Disaggregation and maturity profile of defined benefit obligation

The breakdown of the defined benefit obligation for our Canadian plans between active, deferred, and retired members is as follows:

	Pension plans		Other post-employment plans	
$ millions, as at October 31	**2017**	2016	**2017**	2016
Active members	**$ 3,755**	$ 3,702	**$ 188**	$ 192
Deferred members	**490**	463	**–**	n/a
Retired members	**2,687**	2,569	**458**	480
	$ 6,932	$ 6,734	**$ 646**	$ 672

n/a Not applicable.

The weighted-average duration of the defined benefit obligation for our Canadian plans is as follows:

	Pension plans		Other post-employment plans	
As at October 31	**2017**	2016	**2017**	2016
Weighted-average duration, in years	**15.6**	16.3	**13.8**	14.5

Plan assets

The major categories of our defined benefit pension plan assets for our Canadian plans are as follows:

$ millions, as at October 31	2017		2016	
Asset category [1]				
Canadian equity securities [2]	**$ 750**	**11 %**	$ 683	10 %
Debt securities [3]				
Government bonds	**2,249**	**32**	2,193	33
Corporate bonds	**865**	**12**	828	12
Inflation adjusted bonds	**346**	**5**	364	6
	3,460	**49**	3,385	51
Investment funds [4]				
Canadian equity funds	**27**	**1**	47	1
U.S. equity funds	**293**	**4**	291	4
International equity funds [5]	**26**	**1**	49	1
Global equity funds [5]	**1,033**	**15**	955	14
Emerging markets equity funds	**257**	**4**	282	4
Fixed income funds	**146**	**2**	106	2
	1,782	**27**	1,730	26
Other [2]				
Hedge funds	**435**	**6**	428	6
Infrastructure and private equity	**356**	**5**	266	4
Cash and cash equivalents and other	**188**	**2**	184	3
	979	**13**	878	13
	$ 6,971	**100 %**	$ 6,676	100 %

(1) Asset categories are based upon risk classification including synthetic exposure through derivatives. The fair value of derivatives as at October 31, 2017 was a net derivative liability of $63 million (2016: net derivative liability of $42 million).
(2) Pension benefit plan assets include CIBC issued securities and deposits of $18 million (2016: $19 million), representing 0.3% of Canadian plan assets (2016: 0.3%). All of the equity securities held as at October 31, 2017 and 2016 have daily quoted prices in active markets except hedge funds, infrastructure, and private equity.
(3) All debt securities held as at October 31, 2017 and 2016 are investment grade, of which $134 million (2016: $117 million) have daily quoted prices in active markets.
(4) $26 million (2016: $35 million) of the investment funds and other assets held as at October 31, 2017 have daily quoted prices in active markets (excludes securities held indirectly that have daily quoted prices in active markets).
(5) Global equity funds include North American and international investments, whereas International equity funds do not include North American investments.

Principal actuarial assumptions

The weighted-average principal assumptions used to determine the defined benefit obligation for our Canadian plans are as follows:

	Pension plans		Other post-employment plans	
As at October 31	**2017**	2016	**2017**	2016
Discount rate	**3.6 %**	3.6 %	**3.6 %**	3.5 %
Rate of compensation increase [1]	**2.3 %**	2.3 %	**2.3 %**	2.3 %

(1) Rates of compensation increase for 2017 and 2016 have been updated to reflect the use of a salary growth rate assumption table that is based on the age and tenure of the employees. The table yields a weighted average salary growth rate of approximately 2.3% per annum.

Assumptions regarding future mortality have been based on published statistics and mortality tables. The current longevities underlying the values of the defined benefit obligation of our Canadian plans are as follows (in years):

As at October 31	2017	2016
Longevity at age 65 for current retired members		
Males	**23.2**	23.2
Females	**24.7**	24.7
Longevity at age 65 for current members aged 45		
Males	**24.2**	24.2
Females	**25.7**	25.6

The assumed health-care cost trend rates of the Canadian other post-employment plan providing medical, dental, and life insurance benefits are as follows:

For the year ended October 31	2017	2016
Health-care cost trend rates assumed for next year	**5.7 %**	5.7 %
Rate to which the cost trend rate is assumed to decline	**4.5 %**	4.5 %
Year that the rate reaches the ultimate trend rate	**2029**	2029

Sensitivity analysis

Reasonably possible changes to one of the principal actuarial assumptions, holding other assumptions constant, would have affected the defined benefit obligation of our Canadian plans as follows:

Estimated increase (decrease) in defined benefit obligation	Pension plans	Other post-employment plans
$ millions, as at October 31	**2017**	**2017**
Discount rate (100 basis point change)		
Decrease in assumption	**$ 1,123**	**$ 96**
Increase in assumption	**(912)**	**(77)**
Rate of compensation increase (100 basis point change)		
Decrease in assumption	**(199)**	**(1)**
Increase in assumption	**225**	**2**
Health-care cost trend rates (100 basis point change)		
Decrease in assumption	**n/a**	**(41)**
Increase in assumption	**n/a**	**49**
Future mortality		
1 year shorter life expectancy	**(150)**	**(17)**
1 year longer life expectancy	**147**	**17**

n/a Not applicable.

The sensitivity analyses presented above are indicative only, and should be considered with caution as they have been calculated in isolation without changing any other assumptions. In practice, changes in one assumption may result in changes in another, which may magnify or counteract the disclosed sensitivities.

Future cash flows

Cash contributions

The most recently completed actuarial valuation of the CIBC Pension Plan for funding purposes was as at October 31, 2016. The next actuarial valuation of this plan for funding purposes will be effective as of October 31, 2017.

The minimum contributions for 2018 are anticipated to be $184 million for the Canadian defined benefit pension plans and $30 million for the Canadian other post-employment benefit plans. These estimates are subject to change since contributions are affected by various factors, such as market performance, regulatory requirements, and management's ability to change funding policy.

Expected future benefit payments

The expected future benefit payments for our Canadian plans for the next 10 years are as follows:

$ millions, for the year ended October 31	2018	2019	2020	2021	2022	2023 – 2027	Total
Defined benefit pension plans	$ 303	$ 306	$ 313	$ 321	$ 330	$ 1,786	$ 3,359
Other post-employment plans	30	31	33	34	35	193	356
	$ 333	$ 337	$ 346	$ 355	$ 365	$ 1,979	$ 3,715

Defined contributions and other plans

We also maintain defined contribution plans for certain employees and make contributions to government pension plans. The expense recognized in the consolidated statement of income for these benefit plans is as follows:

$ millions, for the year ended October 31	**2017** (1)	2016	2015
Defined contribution pension plans	**$ 21**	$ 20	$ 20
Government pension plans (2)	**107**	96	96
	$ 128	$ 116	$ 116

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Includes Canada Pension Plan, Quebec Pension Plan, and U.S. Federal Insurance Contributions Act.

Note 20 | Income taxes

Total income taxes

$ millions, for the year ended October 31	**2017** [1]	2016	2015
Consolidated statement of income			
Provision for current income taxes			
Adjustments for prior years	**$ (19)**	$ (44)	$ (18)
Current income tax expense	**1,160**	782	713
	1,141	738	695
Provision for deferred income taxes			
Adjustments for prior years	**6**	13	13
Effect of changes in tax rates and laws	**3**	(11)	3
Origination and reversal of temporary differences	**12**	(22)	(77)
	21	(20)	(61)
	1,162	718	634
OCI	**166**	(263)	70
Total comprehensive income	**$ 1,328**	$ 455	$ 704

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

Components of income tax

$ millions, for the year ended October 31	**2017** [1]	2016	2015
Current income taxes			
Federal	**$ 683**	$ 394	$ 358
Provincial	**451**	259	246
Foreign	**127**	45	107
	1,261	698	711
Deferred income taxes			
Federal	**52**	(129)	80
Provincial	**33**	(89)	54
Foreign	**(18)**	(25)	(141)
	67	(243)	(7)
	$ 1,328	$ 455	$ 704

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

The combined Canadian federal and provincial income tax rate varies each year according to changes in the statutory rates imposed by each of these jurisdictions, and according to changes in the proportion of our business carried out in each province. We are also subject to Canadian taxation on income of foreign branches.

Earnings of foreign subsidiaries would generally only be subject to Canadian tax when distributed to Canada. Additional Canadian taxes that would be payable if all foreign subsidiaries' retained earnings were distributed to the Canadian parent as dividends are estimated to be nil.

The effective rates of income tax in the consolidated statement of income are different from the combined Canadian federal and provincial income tax rates as set out in the following table:

Reconciliation of income taxes

$ millions, for the year ended October 31	**2017**		2016		2015	
Combined Canadian federal and provincial income tax rate applied to income before income taxes	**$ 1,558**	**26.5 %**	$ 1,328	26.5 %	$ 1,115	26.4 %
Income taxes adjusted for the effect of:						
Earnings of foreign subsidiaries	**(137)**	**(2.3)**	(152)	(3.0)	(87)	(2.0)
Tax-exempt income	**(219)**	**(3.7)**	(348)	(7.0)	(358)	(8.5)
Disposition	**(26)**	**(0.4)**	(76)	(1.5)	–	–
Changes in income tax rate on deferred tax balances	**3**	**–**	(11)	(0.2)	3	0.1
Impact of equity-accounted income	**(25)**	**(0.4)**	(24)	(0.5)	(41)	(1.0)
Other	**8**	**0.1**	1	– [1]	2	– [1]
Income taxes in the consolidated statement of income	**$ 1,162**	**19.8 %**	$ 718	14.3 %	$ 634	15.0 %

(1) Due to rounding.

Deferred income tax assets

Sources of and movement in deferred tax assets and liabilities

Deferred tax assets

$ millions, for the year ended October 31		Allowance for credit losses	Buildings and equipment	Pension and employee benefits	Provisions	Financial instrument revaluation	Tax loss carry-forwards [1]	Unearned income	Other	Total assets
2017 [2]	**Balance at beginning of year**	**$ 227**	**$ 88**	**$ 520**	**$ 31**	**$ 25**	**$ 70**	**$ 115**	**$ 2**	**$ 1,078**
	Recognized in net income	**2**	**(14)**	**19**	**15**	**(26)**	**(49)**	**3**	**–**	**(50)**
	Recognized in OCI	**–**	**–**	**(49)**	**–**	**19**	**–**	**–**	**–**	**(30)**
	Acquisitions	**14**	**–**	**86**	**–**	**111**	**–**	**7**	**3**	**221**
	Other [3]	**2**	**(5)**	**(17)**	**1**	**(5)**	**(3)**	**(20)**	**(3)**	**(50)**
	Balance at end of year	**$ 245**	**$ 69**	**$ 559**	**$ 47**	**$ 124**	**$ 18**	**$ 105**	**$ 2**	**$ 1,169**
2016	Balance at beginning of year	$ 208	$ 81	$ 353	$ 25	$ 2	$ 62	$ 101	$ 1	$ 833
	Recognized in net income	18	2	13	7	7	–	16	1	64
	Recognized in OCI	–	–	155	–	16	–	–	–	171
	Other [3]	1	5	(1)	(1)	–	8	(2)	–	10
	Balance at end of year	$ 227	$ 88	$ 520	$ 31	$ 25	$ 70	$ 115	$ 2	$ 1,078
2015	Balance at beginning of year	$ 200	$ 72	$ 430	$ 23	$ 10	$ 73	$ 106	$ 5	$ 919
	Recognized in net income	4	(2)	36	1	(6)	(18)	(8)	(5)	2
	Recognized in OCI	–	–	(122)	–	–	–	–	–	(122)
	Other [3]	4	11	9	1	(2)	7	3	1	34
	Balance at end of year	$ 208	$ 81	$ 353	$ 25	$ 2	$ 62	$ 101	$ 1	$ 833

Deferred tax liabilities

$ millions, for the year ended October 31		Intangible assets	Buildings and equipment	Pension and employee benefits	Goodwill	Financial instrument revaluation	Lease receivables	Foreign currency	Other	Total liabilities
2017 [2]	**Balance at beginning of year**	**$ (158)**	**$ (45)**	**$ (8)**	**$ (88)**	**$ (54)**	**$ –**	**$ 24**	**$ 1**	**$ (328)**
	Recognized in net income	**(19)**	**(3)**	**1**	**(5)**	**36**	**–**	**–**	**19**	**29**
	Recognized in OCI	**–**	**–**	**(5)**	**–**	**(13)**	**–**	**–**	**2**	**(16)**
	Acquisitions	**(143)**	**(7)**	**–**	**–**	**–**	**–**	**–**	**–**	**(150)**
	Other [3]	**(9)**	**3**	**2**	**–**	**14**	**–**	**(25)**	**8**	**(7)**
	Balance at end of year	**$ (329)**	**$ (52)**	**$ (10)**	**$ (93)**	**$ (17)**	**$ –**	**$ (1)**	**$ 30**	**$ (472)**
2016	Balance at beginning of year	$ (124)	$ (49)	$ (13)	$ (81)	$ (29)	$ –	$ (38)	$ (20)	$ (354)
	Recognized in net income	(33)	5	8	(6)	(29)	–	–	11	(44)
	Recognized in OCI	–	–	(5)	–	(8)	–	62	4	53
	Other [3]	(1)	(1)	2	(1)	12	–	–	6	17
	Balance at end of year	$ (158)	$ (45)	$ (8)	$ (88)	$ (54)	$ –	$ 24	$ 1	$ (328)
2015	Balance at beginning of year	$ (104)	$ (44)	$ (9)	$ (72)	$ (110)	$ (47)	$ (27)	$ (29)	$ (442)
	Recognized in net income	(18)	(5)	5	(9)	7	55	–	24	59
	Recognized in OCI	–	–	(7)	–	76	–	–	(1)	68
	Other [3]	(2)	–	(2)	–	(2)	(8)	(11)	(14)	(39)
	Balance at end of year	$ (124)	$ (49)	$ (13)	$ (81)	$ (29)	$ –	$ (38)	$ (20)	$ (354)

Net deferred tax assets as at October 31, 2017	**$ 697**
Net deferred tax assets as at October 31, 2016	$ 750
Net deferred tax assets as at October 31, 2015	$ 479

(1) The tax loss carryforwards include $18 million (2016: $70 million; 2015: $35 million) that relate to operating losses (of which $11 million relate to the U.S., $2 million relate to Canada and $5 million relate to other jurisdictions) that expire in various years commencing in 2017, and nil (2016: nil; 2015: $27 million) that relate to Canadian capital losses that never expire.
(2) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(3) Includes foreign currency translation adjustments.

Deferred tax assets and liabilities are assessed by entity for presentation in our consolidated balance sheet. As a result, the net deferred tax assets of $697 million (2016: $750 million) are presented in the consolidated balance sheet as deferred tax assets of $727 million (2016: $771 million) and deferred tax liabilities of $30 million (2016: $21 million).

Unrecognized tax losses

The amount of unused tax losses for which deferred tax assets have not been recognized was $1,141 million as at October 31, 2017 (2016: $1,123 million) of which nil (2016: nil) has no expiry date, and of which $1,141 million (2016: $1,123 million) expires within 10 years. These unused tax losses substantially relate to the Caribbean region.

Enron

In prior years, the Canada Revenue Agency (CRA) issued reassessments disallowing the deduction of approximately $3 billion of the 2005 Enron settlement payments and related legal expenses. The matter is currently in litigation. The Tax Court of Canada trial on the deductibility of the Enron payments is expected to commence in 2018.

Should we successfully defend our tax filing position in its entirety, we would recognize an additional accounting tax benefit of $231 million and taxable refund interest of approximately $198 million. Should we fail to defend our position in its entirety, we would incur an additional tax expense of approximately $820 million and non-deductible interest of approximately $157 million.

Dividend Received Deduction

In June 2016, the CRA reassessed CIBC approximately $118 million of additional income tax by denying the tax deductibility of certain 2011 Canadian corporate dividends on the basis that they were part of a “dividend rental arrangement”. In May 2017, the CRA reassessed CIBC additional income tax of approximately $180 million related to the tax deductibility of dividends during the 2012 taxation year. The circumstances of the dividends subject to the reassessments are similar to those prospectively addressed by the rules in the 2015 Canadian federal budget. It is possible that subsequent years may be reassessed for similar activities. CIBC is confident that its tax filing positions were appropriate and intends to defend itself vigorously. Accordingly, no amounts have been accrued in the consolidated financial statements.

Note 21 | Earnings per share

$ millions, except per share amounts, for the year ended October 31	2017 [1]	2016	2015
Basic EPS			
Net income attributable to equity shareholders	**$ 4,699**	$ 4,275	$ 3,576
Less: preferred share dividends and premiums	**52**	38	45
Net income attributable to common shareholders	**4,647**	4,237	3,531
Weighted-average common shares outstanding (thousands)	**412,636**	395,389	397,213
Basic EPS	**$ 11.26**	$ 10.72	$ 8.89
Diluted EPS			
Net income attributable to common shareholders	**$ 4,647**	$ 4,237	$ 3,531
Weighted-average common shares outstanding (thousands)	**412,636**	395,389	397,213
Add: stock options potentially exercisable [2] (thousands)	**827**	530	619
Add: restricted shares and equity-settled contingent consideration (thousands)	**100**	–	–
Weighted-average diluted common shares outstanding (thousands)	**413,563**	395,919	397,832
Diluted EPS	**$ 11.24**	$ 10.70	$ 8.87

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Excludes average options outstanding of 729,807 with a weighted-average exercise price of $111.69; average options outstanding of 1,304,880 with a weighted-average exercise price of $99.80; and average options outstanding of 754,144 with a weighted-average exercise price of $100.50 for the years ended October 31, 2017, 2016, and 2015, respectively, as the options' exercise prices were greater than the average market price of common shares.

Note 22 | Commitments, guarantees and pledged assets

Commitments

Credit-related arrangements

Credit-related arrangements are generally off-balance sheet instruments and are typically entered into to meet the financing needs of clients. In addition, there are certain exposures for which we could be obligated to extend credit that are not recorded on the consolidated balance sheet. Our policy of requiring collateral or other security to support credit-related arrangements and the types of security held is generally the same as for loans. The contract amounts presented below for credit-related arrangements represent the maximum amount of additional credit that we could be obligated to extend. The contract amounts also represent the additional credit risk amounts should the contracts be fully drawn, the counterparties default and any collateral held proves to be of no value. As many of these arrangements will expire or terminate without being drawn upon, the contract amounts are not necessarily indicative of future cash requirements or actual risk of loss.

	Contract amounts	
$ millions, as at October 31	2017 [1]	2016
Securities lending [2]	**$ 46,753**	$ 38,657
Unutilized credit commitments [3]	**209,164**	186,406
Backstop liquidity facilities	**11,195**	8,842
Standby and performance letters of credit	**12,764**	12,377
Documentary and commercial letters of credit	**214**	217
Other	**269**	282
	$ 280,359	$ 246,781

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Excludes securities lending of $2.0 billion (2016: $2.5 billion) for cash because it is reported on the consolidated balance sheet.
(3) Includes $111.7 billion (2016: $105.0 billion) of personal, home equity and credit card lines, which are unconditionally cancellable at our discretion.

In addition, the client securities lending of the joint ventures which CIBC has with The Bank of New York Mellon totalled $82.4 billion (2016: $81.5 billion) of which $11.7 billion (2016: $8.5 billion) are transactions between CIBC and the joint ventures.

CIBC has provided indemnities to customers of the joint ventures in respect of securities lending transactions with third parties amounting to $68.1 billion (2016: $71.0 billion).

Securities lending

Securities lending represents our credit exposure when we lend our own or our clients' securities to a borrower and the borrower defaults on the redelivery obligation. The borrower must fully collateralize the security lent at all times.

Unutilized credit commitments

Unutilized credit commitments are the undrawn portion of lending facilities that we have approved to meet the requirements of clients. These lines may include various conditions that must be satisfied prior to drawdown and include facilities extended in connection with contingent acquisition financing. The credit risk associated with these lines arises from the possibility that a commitment will be drawn down as a loan at some point in the future, prior to the expiry of the commitment. The amount of collateral obtained, if deemed necessary, is based on our credit evaluation of the borrower and may include a charge over the present and future assets of the borrower.

Backstop liquidity facilities

We provide irrevocable backstop liquidity facilities primarily to ABCP conduits. We are the financial services agent for some of these conduits, while other conduits are administered by third parties. The liquidity facilities for our sponsored ABCP programs, Safe Trust, Sure Trust, and Sound Trust, require us to provide funding, subject to the satisfaction of certain limited conditions with respect to the conduits, to fund non-defaulted assets.

Standby and performance letters of credit

These represent an irrevocable obligation to make payments to third parties in the event that clients are unable to meet their contractual financial or performance obligations. The credit risk associated with these instruments is essentially the same as that involved in extending irrevocable loan commitments to clients. The amount of collateral obtained, if deemed necessary, is based on our credit evaluation of the borrower and may include a charge over present and future assets of the borrower.

Documentary and commercial letters of credit

Documentary and commercial letters of credit are short-term instruments issued on behalf of a client, authorizing a third party, such as an exporter, to draw drafts on CIBC up to a specified amount, subject to specific terms and conditions. We are at risk for any drafts drawn that are not ultimately settled by the client; however, the amounts drawn are collateralized by the related goods.

Operating lease commitments(1)

Future minimum lease payments and receipts for operating lease commitments for each of the five succeeding years and thereafter are as follows:

	Operating leases	
$ millions, as at October 31, 2017	Payments	Receipts (2)
2018	$ 477	$ 125
2019	448	126
2020	391	126
2021	380	130
2022	336	132
2023 and thereafter	3,229	1,351

(1) Total rental expense (excluding servicing agreements) in respect of buildings and equipment was $476 million (2016: $445 million; 2015: $432 million).
(2) Includes sub-lease income from a finance lease property, a portion of which is rented out and considered an investment property.

Finance lease commitments(1)

Future minimum lease payments for finance lease commitments for each of the five succeeding years and thereafter are as follows:

$ millions, as at October 31, 2017	
2018	$ 53
2019	51
2020	49
2021	47
2022	44
2023 and thereafter	320
	564
Less: future interest charges	190
Present value of finance lease commitments	$ 374

(1) Total interest expense related to finance lease arrangements was $28 million (2016: $30 million; 2015: $30 million).

Other commitments

As an investor in merchant banking activities, we enter into commitments to fund external private equity funds. In connection with these activities, we had commitments to invest up to $143 million (2016: $145 million).

In addition, we act as underwriter for certain new issuances under which we alone or together with a syndicate of financial institutions purchase these new issuances for resale to investors. As at October 31, 2017, the related underwriting commitments were $424 million (2016: $196 million).

Guarantees and other indemnification agreements

Guarantees

A guarantee is a contract that requires the issuer to make specified payments to reimburse the holder for a loss it incurs because a specified debtor failed to make payment when due in accordance with the original or modified terms of a debt instrument. Guarantees include standby and performance letters of credit as discussed above, and credit derivatives protection sold, as discussed in Note 12.

Other indemnification agreements

In the ordinary course of operations, we enter into contractual arrangements under which we may agree to indemnify the counterparty to such arrangement from any losses relating to a breach of representations and warranties, a failure to perform certain covenants, or for claims or losses arising from certain external events as outlined within the particular contract. This may include, for example, losses arising from changes in tax legislation, litigation, or claims relating to past performance. In addition, we have entered into indemnification agreements with each of our directors and officers to indemnify those individuals, to the extent permitted by law, against any and all claims or losses (including any amounts paid in settlement of any such claims) incurred as a result of their service to CIBC. In most indemnities, maximum loss clauses are generally not provided for, and as a result, no defined limit of the maximum potential liability exists. Amounts are accrued when we have a present legal or constructive obligation as a result of a past event, when it is both probable that an outflow of economic benefits will be required to resolve the matter, and when a reliable estimate can be made of the amount of the obligation. We believe that the likelihood of the conditions arising to trigger obligations under these contract arrangements is remote. Historically, any payments made in respect of these contracts have not been significant. Amounts related to these indemnifications, representations, and warranties reflected within the consolidated financial statements as at October 31, 2017 and 2016 are not significant.

Pledged assets

In the ordinary course of business, we pledge our own assets, or may sell or re-pledge third-party assets against liabilities, or to facilitate certain activities, pursuant to agreements permitting such re-pledging of third-party assets where required.

The following table presents the carrying value of the sources and uses of our own pledged assets and collateral:

$ millions, as at October 31	**2017** [1]	2016
Sources of pledged assets and collateral [2]		
Deposits with banks	**$ 6**	$ 11
Securities	**32,809**	23,690
NHA mortgage-backed securities [3]	**20,247**	20,996
Mortgages	**17,478**	14,227
Credit cards [4]	**3,048**	4,245
Other assets	**4,420**	6,022
	$ 78,008	$ 69,191
Uses of pledged assets and collateral		
Securities lent	**$ 19,291**	$ 19,564
Obligations related to securities lent or sold under repurchase agreements	**10,463**	2,326
Secured borrowings	**40,968**	39,484
Derivative transactions [5]	**4,456**	6,074
Foreign governments and central banks [6]	**236**	691
Clearing systems, payment systems, depositories, and other [6]	**2,594**	1,052
	$ 78,008	$ 69,191

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Does not include over-collateralization of assets pledged.
(3) Includes certain cash in transit balances related to the securitization process.
(4) These assets are held in consolidated securitization trusts and support funding liabilities of $3.0 billion with a fair value of $3.0 billion (2016: $4.2 billion with a fair value of $4.2 billion).
(5) Comprises margins for exchange-traded futures and options, clearing house settled swap contracts, and collateralized derivative transactions.
(6) Includes assets pledged in order to participate in clearing and payment systems and depositories, or to have access to the facilities of central banks in foreign jurisdictions. Excludes intraday pledges to the Bank of Canada related to the Large Value Transfer System as they are normally released back to us at the end of the settlement cycle each day.

The following table presents the uses of third-party pledged assets and collateral available for sale or re-pledging:

$ millions, as at October 31	**2017** [1]	2016
Collateral received and available for sale or re-pledging	**$ 93,201**	$ 73,724
Less: not sold or re-pledged	**28,240**	28,589
	$ 64,961	$ 45,135
Uses of pledged assets and collateral		
Securities lent	**$ 27,462**	$ 19,093
Obligations related to securities lent or sold under repurchase agreements	**19,532**	11,886
Obligations related to securities sold short	**13,713**	10,338
Derivative transactions [2]	**4,254**	3,818
	$ 64,961	$ 45,135

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Comprises margins for exchange-traded futures and options, clearing house settled swap contracts, and collateralized derivative transactions.

In addition, see the “Commitments” section above for details on the client securities lending of the joint ventures which CIBC has with The Bank of New York Mellon.

Securities collateral

Client securities collateral that is available for sale or re-pledging is received in connection with securities lending, securities borrowed or purchased under resale agreements, margin loans, and to collateralize derivative contracts. Client securities collateral may be sold or re-pledged by CIBC in connection with securities borrowed, lent or sold under repurchase agreements, for margin loans, as collateral for derivative transactions, or delivered to cover securities sold short.

Note 23 | Contingent liabilities and provision

In the ordinary course of its business, CIBC is a party to a number of legal proceedings, including regulatory investigations, in which claims for substantial monetary damages are asserted against CIBC and its subsidiaries. Legal provisions are established if, in the opinion of management, it is both probable that an outflow of economic benefits will be required to resolve the matter, and a reliable estimate can be made of the amount of the obligation. If the reliable estimate of probable loss involves a range of potential outcomes within which a specific amount within the range appears to be a better estimate, that amount is accrued. If no specific amount within the range of potential outcomes appears to be a better estimate than any other amount, the mid-point in the range is accrued. In some instances, however, it is not possible either to determine whether an obligation is probable or to reliably estimate the amount of loss, in which case no accrual can be made.

While there is inherent difficulty in predicting the outcome of legal proceedings, based on current knowledge and in consultation with legal counsel, we do not expect the outcome of these matters, individually or in aggregate, to have a material adverse effect on our consolidated financial statements. However, the outcome of these matters, individually or in aggregate, may be material to our operating results for a particular reporting period. We regularly assess the adequacy of CIBC's litigation accruals and make the necessary adjustments to incorporate new information as it becomes available.

CIBC considers losses to be reasonably possible when they are neither probable nor remote. It is reasonably possible that CIBC may incur losses in addition to the amounts recorded when the loss accrued is the mid-point of a range of reasonably possible losses, or the potential loss pertains to a matter in which an unfavourable outcome is reasonably possible but not probable.

CIBC believes the estimate of the aggregate range of reasonably possible losses, in excess of the amounts accrued, for its significant legal proceedings, where it is possible to make such an estimate, is from nil to approximately $1.2 billion as at October 31, 2017. This estimated aggregate range of reasonably possible losses is based upon currently available information for those significant proceedings in which CIBC is involved, taking into account CIBC's best estimate of such losses for those cases for which an estimate can be made. CIBC's estimate involves significant judgment, given the varying stages of the proceedings and the existence of multiple defendants in many of such proceedings whose share of the liability has yet to be determined. The range does not include potential punitive damages and interest. The matters underlying the estimated range as at October 31, 2017, consist of the significant legal matters disclosed below. The matters underlying the estimated range will change from time to time, and actual losses may vary significantly from the current estimate. For certain matters, CIBC does not believe that an estimate can currently be made as many of them are in preliminary stages and certain matters have no specific amount claimed. Consequently, these matters are not included in the range.

The following is a description of CIBC's significant legal proceedings, which we intend to vigorously defend.

Green v. Canadian Imperial Bank of Commerce, et al.

In July 2008, a shareholder plaintiff commenced this proposed class action in the Ontario Superior Court of Justice against CIBC and several former and current CIBC officers and directors. It alleges that CIBC and the individual officers and directors violated the *Ontario Securities Act* through material misrepresentations and non-disclosures relating to CIBC's exposure to the U.S. sub-prime mortgage market. The plaintiffs instituted this action on behalf of all CIBC shareholders in Canada who purchased shares between May 31, 2007 and February 28, 2008. The action seeks damages of $10 billion. In July 2012, the plaintiffs' motions for leave to file the statement of claim and for class certification were dismissed by the Ontario Superior Court of Justice. In February 2014, the Ontario Court of Appeal released its decision overturning the lower court and allowing the matter to proceed as a certified class action. In August 2014, CIBC and the individual defendants were granted leave to appeal to the Supreme Court of Canada. The defendants' appeal to the Supreme Court of Canada was heard on February 9, 2015. In December 2015, the Supreme Court of Canada upheld the Ontario Court of Appeal's decision allowing the matter to proceed as a certified class action. The plaintiffs' motion for summary judgment is scheduled for October 2018.

Fresco v. Canadian Imperial Bank of Commerce
Gaudet v. Canadian Imperial Bank of Commerce

In June 2007, two proposed class actions were filed against CIBC in the Ontario Superior Court of Justice (Fresco v. CIBC) and in the Quebec Superior Court (Gaudet v. CIBC). Each makes identical claims for unpaid overtime for full-time, part-time, and retail frontline non-management employees. The Ontario action seeks $500 million in damages plus $100 million in punitive damages for all employees in Canada, while the Quebec action is limited to employees in Quebec and has been stayed pending the outcome of the Ontario action. In June 2009, in the Ontario action, the motion judge denied certification of the matter as a class action. In September 2010, the Ontario Divisional Court upheld the motion judge's denial of the plaintiff's certification motion and the award of costs to CIBC by a two to one majority. In January 2011, the Ontario Court of Appeal granted the plaintiff leave to appeal the decision denying certification. In June 2012, the Ontario Court of Appeal overturned the lower court and granted certification of the matter as a class action. The Supreme Court of Canada released its decision in March 2013 denying CIBC leave to appeal certification of the matter as a class action, and denying the plaintiff's cross appeal on aggregate damages. The plaintiffs' motion for summary judgment has been adjourned to a date to be scheduled.

Credit card class actions – Quebec Consumer Protection Act:

Marcotte v. Bank of Montreal, et al.
Corriveau v. Amex Bank of Canada, et al.
Lamoureux v. Bank of Montreal, et al.
St. Pierre v. Bank of Montreal, et al.
Marcotte v. Bank of Montreal, et al. (II)
Giroux v. Royal Bank of Canada, et al.

Since 2004, a number of proposed class actions have been filed in the Quebec Superior Court against CIBC and numerous other financial institutions. The actions, brought on behalf of cardholders, allege that the financial institutions are in breach of certain provisions of the Quebec *Consumer Protection Act* (CPA). The alleged violations include charging fees on foreign currency transactions, charging fees on cash advances, increasing credit limits without the cardholder's express consent, and failing to allow a 21-day grace period before posting charges to balances upon which interest is calculated. CIBC and the other defendant banks are jointly raising a constitutional challenge to the CPA on the basis that banks are not required to comply with provincial legislation because banking and cost of borrowing disclosure is a matter of exclusive federal jurisdiction.

The first of these class actions (Marcotte v. Bank of Montreal, et al.), which alleges that charging cardholders fees on foreign currency transactions violates the CPA, went to trial in 2008. In a decision released in June 2009, the trial judge found in favour of the plaintiffs concluding that the CPA is constitutionally applicable to federally regulated financial institutions and awarding damages against all the defendants. The court awarded compensatory damages against CIBC in the amount of $38 million plus an additional sum to be determined at a future date. The court awarded punitive damages against a number of the other defendants, but not against CIBC. CIBC and the other financial institutions appealed this decision. The appeal was heard by the Quebec Court of Appeal in September 2011. In August 2012, the Quebec Court of Appeal allowed the defendant banks' appeals in part and

overturned the trial judgment against CIBC. The plaintiffs and some of the defendant banks appealed to the Supreme Court of Canada, and that appeal was heard in February 2014. On September 19, 2014, the Supreme Court of Canada found that the relevant provisions of the Quebec CPA were constitutionally applicable to the banks, but that CIBC is not liable for damages because it fully complied with the Quebec CPA.

The *Giroux* and *Marcotte II* proposed class actions were discontinued in January 2015.

The *Lamoureux*, *St. Pierre* and *Corriveau* actions were settled in 2016 subject to court approval. Pursuant to the proposed settlement CIBC will pay $4.25 million to settle these three actions. The court approval hearing was held in December 2016. In January 2017, the court did not approve CIBC's proposed settlement as it found the fees for plaintiffs' counsel were excessive and the end date for one of the actions was later than required. The plaintiffs' appeal was heard in September 2017. The court reserved its decision.

Credit card class actions – Interchange fees litigation:

Bancroft-Snell v. Visa Canada Corporation, et al.
9085-4886 Quebec Inc. v. Visa Canada Corporation, et al.
Watson v. Bank of America Corporation, et al.
Fuze Salon v. BofA Canada Bank, et al.
1023926 Alberta Ltd. v. Bank of America Corporation, et al.
The Crown & Hand Pub Ltd. v. Bank of America Corporation, et al.
Hello Baby Equipment Inc. v. BofA Canada Bank, et al.

Since 2011 seven proposed class actions have been commenced against VISA Canada Corporation (Visa), MasterCard International Incorporated (MasterCard), CIBC and numerous other financial institutions. The actions, brought on behalf of all merchants who accepted payment by Visa or MasterCard from March 23, 2001 to the present, allege two "separate, but interrelated" conspiracies; one in respect of Visa and one in respect of MasterCard. The claims allege that Visa and MasterCard conspired with their issuing banks to set default interchange rate and merchant discount fees and that certain rules (Honour All Cards and No Surcharge) have the effect of increasing the merchant discount fees. The claims allege civil conspiracy, violation of the Competition Act, interference with economic interests and unjust enrichment. The claims seek unspecified general and punitive damages. The motion for class certification in *Watson* was granted in March 2014. The appeal of the decision granting class certification was heard in December 2014. In August 2015, the British Columbia Court of Appeal allowed the appeals in part, resulting in certain causes of action being struck and others being reinstated. The matter remains certified as a class action. The trial in Watson which was scheduled to commence in September 2018 will be adjourned to October 2019. The motion for class certification in *9085-4886 Quebec Inc.* (formerly *Bakopanos*) was heard in November 2017. The court reserved its decision.

Mortgage prepayment class actions:

Jordan v. CIBC Mortgages Inc.
Lamarre v. CIBC Mortgages Inc.
Sherry v. CIBC Mortgages Inc.

In 2011, three proposed class actions were filed in the Superior Courts of Ontario, Quebec and British Columbia against CIBC Mortgages Inc. The representative plaintiffs allege that since 2005 CIBC Mortgages Inc. wrongfully charged or overcharged mortgage prepayment penalties and that the calculation clauses in the mortgage contract that provide for discretion in applying the prepayment penalties are void and unenforceable at law. The motion for class certification in *Sherry* was granted in June 2014 conditional on the plaintiffs framing a workable class definition. In July 2014 CIBC filed a Notice of Appeal. CIBC's appeal of the certification decision in *Sherry* was heard in April 2016. The court reserved its decision. In June 2016, the British Columbia Court of Appeal allowed the appeal in *Sherry* in part, resulting in certain causes of action being struck. *Sherry* remains certified as a class action, and continuation of the certification motion on the amended pleading is scheduled for November 2017.

Oppenheimer Holdings Inc., Oppenheimer & Co. Inc. and OPY Credit Corp v. Canadian Imperial Bank of Commerce and CIBC World Markets Corp.

In March 2013, a claim was filed in New York State Supreme Court against CIBC by Oppenheimer Holdings Inc., Oppenheimer & Co. Inc. (Oppenheimer) and OPY Credit Corp. seeking damages of US$176 million relating to an alleged breach of a credit facility that Canadian Imperial Bank of Commerce entered into with OPY Credit Corp. in January 2008 *(Oppenheimer Holdings Inc. v. Canadian Imperial Bank of Commerce)*. In November 2013, the court dismissed all claims brought by Oppenheimer Holdings Inc. and Oppenheimer & Co. and reduced the claim to one cause of action, a claim by OPY Credit Corp. alleging that Canadian Imperial Bank of Commerce breached the credit facility. In January 2014, plaintiffs filed an amended complaint again asserting claims relating to alleged breaches of the credit facility, as well as claims relating to an asset purchase agreement between Oppenheimer Holdings Inc. and Oppenheimer & Co., and Canadian Imperial Bank of Commerce and CIBC World Markets Corp. In October 2014, the court granted CIBC's motion to dismiss in part, narrowing the claims against CIBC. This case continues to proceed.

Barbero v. Royal Bank of Canada, et al

In April 2015, a proposed class action was filed in the Supreme Court of British Columbia against CIBC, Royal Bank of Canada, Toronto-Dominion Bank, Bank of Montreal and Bank of Nova Scotia. The action is brought on behalf of residents of British Columbia who allege they were charged by the defendants a monthly premium or fee for credit protection without their consent or authorization at any time. The plaintiff alleged that the defendants employ uniform, unfair, fraudulent and unlawful marketing practices to enroll customers who receive no meaningful benefit from the product. The claim sought a refund of the premiums, charges or fees received from customers and unspecified general and punitive damages. The motion for class certification was heard in February 2017. In March 2017, the court dismissed the motion for class certification. The plaintiffs did not appeal. This matter is closed.

Cerberus Capital Management L.P. v. CIBC

In October 2015, Securitized Asset Funding 2011-2, LTD., a special purpose investment vehicle affiliated with Cerberus Capital Management L.P. (collectively "Cerberus"), commenced a Federal Court action in New York against CIBC seeking unspecified damages of "at least hundreds of millions of dollars". The action relates to two transactions in 2008 and 2011 in which CIBC issued a limited recourse note and certificate to Cerberus which significantly reduced CIBC's exposure to the U.S. residential real estate market. The complaint alleges that CIBC breached its contract with Cerberus by failing to appropriately calculate and pay with respect to two of the payment streams due under the 2008 note and 2011 certificate.

In November 2015, Cerberus voluntarily dismissed the Federal Court action and filed a new action asserting the same claims in New York State Court. In January 2016, CIBC served its Answer and Counterclaims. In March 2016, Cerberus filed a motion for summary judgment and sought to stay discovery. In April 2016, the court directed the parties to start discovery. The summary judgment motion was heard in June 2017. The court reserved its decision.

Valeant class actions:

Catucci v. Valeant Pharmaceuticals International Inc., et al.
Potter v. Valeant Pharmaceuticals International Inc., et al.

In March 2016, a proposed class action was filed in the Quebec Superior Court on behalf of purchasers of shares in Valeant Pharmaceuticals International Inc. against the issuer, its directors and officers, its auditors and the underwriting syndicates for six public offerings from 2013 to 2015. CIBC World Markets Corp. was part of the underwriting syndicate for three of the offerings (underwriting 1.5% of a US$1.6 billion offering in June 2013, 1.5% of a US$900 million offering in December 2013 and 0.625% of an offering comprising US$5.25 billion and €1.5 billion in March 2015). The proposed class action alleges various misrepresentations on the part of Valeant and the other defendants, including representations made in the prospectus of the public offerings, relating to Valeant's relationships with various "specialty pharmacies" who were allegedly acting improperly in the distribution of Valeant's products resulting in Valeant's operational results, revenues, and share price during the relevant period being artificially inflated. In July 2016, a similar proposed class action (*Potter v. Valeant Pharmaceuticals International Inc., et al.*) was commenced in New Jersey Federal Court.

The motion for class certification in *Catucci* and motion to dismiss in Potter were heard in April 2017. In September 2017, the court certified *Catucci* as a class action. The defendants have sought leave to appeal the certification decision. In *Potter* the court dismissed the action against the underwriters, without prejudice to the plaintiff to re-plead its allegations.

In re PrivateBancorp Shareholder Litigation

Following the announcement of the proposed acquisition of PrivateBancorp, three proposed class actions were filed on behalf of PrivateBancorp shareholders in the Circuit Court of Cook County, Illinois: *Solak v. Richman, et al., Parshall v. PrivateBancorp, Inc., et al.,* and *Griffin v. PrivateBancorp, Inc., et al*. All of the actions named as defendants PrivateBancorp and the members of its board of directors, and asserted that the directors breached their fiduciary duties in connection with the transaction. One such case (*Griffin*) further asserted that PrivateBancorp aided and abetted its directors' alleged breaches. Two of the actions (*Parshall* and *Griffin*) also named as defendants CIBC, and asserted that it, too, aided and abetted the directors' purported breaches. The actions broadly alleged that the transaction was the result of a flawed process, that the price is unfair, and that certain provisions of the merger agreement might dissuade a potential suitor from making a competing offer, among other things. Plaintiffs sought injunctive and other relief, including damages. The matters were subsequently amended and consolidated as *In re PrivateBancorp Shareholder Litigation*. This matter was settled in June 2017.

PrivateBancorp Appraisal Rights Matters

In August 2017, two appraisal petitions were filed against PrivateBancorp by former PrivateBancorp shareholders who exercised their dissent and appraisal rights under Delaware law. In October 2017, PrivateBancorp was named in a third petition. These matters have been consolidated. The petitioners were seeking a judicial determination of the fair value of PrivateBancorp's common stock at the time the acquisition by CIBC closed on June 23, 2017. In November 2017, CIBC and the petitioners entered into an agreement to settle the dispute, subject to the court's entry of an order dismissing the consolidated petition. See Note 3 for additional details on our acquisition of PrivateBancorp.

Legal provisions[1]

The following table presents changes in our legal provisions:

$ millions, for the year ended October 31	**2017**	2016
Balance at beginning of year	**$ 118**	$ 27
Additional new provisions recognized	**67**	106
Less:		
Amounts incurred and charged against existing provisions	**(70)**	(9)
Unused amounts reversed	**(18)**	(6)
Balance at end of year	**$ 97**	$ 118

(1) Excludes amounts recognized in respect of the PrivateBancorp Appraisal Rights Matters. See Note 3 for additional details.

The additional new provisions recognized in 2016 included $76 million in respect of a no-contest settlement agreement reached with the Ontario Securities Commission (OSC) in relation to a matter resulting in reimbursements to certain clients. CIBC discovered and self-reported this matter to the OSC. The no-contest settlement agreement was approved by the OSC pursuant to an order dated October 28, 2016 and represented a legal obligation at the end of the 2016.

Restructuring

During 2015, we recorded cumulative restructuring charges of $296 million in Corporate and Other. The charges primarily related to employee severance and included Program Clarity, a bank-wide priority focused on simplifying our bank. The charges also included restructuring costs related to CIBC FirstCaribbean, which included charges related to the sale by CIBC FirstCaribbean of its Belize banking operations.

In the fourth quarter of 2016, we recorded additional restructuring charges of $134 million as we continued to implement initiatives focused on simplifying our bank.

The following table presents changes in the restructuring provision:

$ millions, for the year ended October 31	**2017**	2016
Balance at beginning of year	**$ 256**	$ 244
Additional new provisions recognized	**21**	158
Less:		
Amounts incurred and charged against existing provisions	**(104)**	(122)
Unused amounts reversed	**(24)**	(24)
Balance at end of year	**$ 149**	$ 256

While the amount of $149 million recognized represents our best estimate as at October 31, 2017 of the amount required to settle the obligation, uncertainty exists with respect to when the obligation will be settled and the amounts that will ultimately be paid, as this will largely depend upon individual facts and circumstances.

Note 24 | Concentration of credit risk

Concentration of credit exposure may arise with a group of counterparties that have similar economic characteristics or are located in the same geographic region. The ability of such counterparties to meet contractual obligations would be similarly affected by changing economic, political, or other conditions.

The amounts of credit exposure associated with our on- and off-balance sheet financial instruments are summarized in the following table:

Credit exposure by country of ultimate risk

$ millions, as at October 31	2017 [1]				2016			
	Canada	**U.S.**	**Other countries**	**Total**	Canada	U.S.	Other countries	Total
On-balance sheet								
Major assets [2][3][4]	**$ 407,878**	**$ 96,542**	**$ 38,469**	**$ 542,889**	$ 387,354	$ 59,457	$ 36,130	$ 482,941
Off-balance sheet								
Credit-related arrangements								
Financial institutions	**$ 46,069**	**$ 13,155**	**$ 7,660**	**$ 66,884**	$ 45,464	$ 6,187	$ 3,578	$ 55,229
Governments	**8,377**	**11**	**73**	**8,461**	5,894	66	108	6,068
Retail	**120,451**	**341**	**381**	**121,173**	114,834	–	415	115,249
Corporate	**55,847**	**21,502**	**6,492**	**83,841**	51,512	13,326	5,397	70,235
	$ 230,744	**$ 35,009**	**$ 14,606**	**$ 280,359**	$ 217,704	$ 19,579	$ 9,498	$ 246,781
Derivative instruments [5][6]								
By counterparty type								
Financial institutions [7]	**$ 5,846**	**$ 4,696**	**$ 5,359**	**$ 15,901**	$ 6,384	$ 4,029	$ 7,766	$ 18,179
Governments	**3,670**	**–**	**2**	**3,672**	5,275	–	5	5,280
Corporate	**1,305**	**731**	**922**	**2,958**	1,612	859	929	3,400
	10,821	**5,427**	**6,283**	**22,531**	13,271	4,888	8,700	26,859
Less: effect of netting	**(6,739)**	**(3,972)**	**(3,266)**	**(13,977)**	(9,225)	(3,594)	(5,146)	(17,965)
Total derivative instruments	**$ 4,082**	**$ 1,455**	**$ 3,017**	**$ 8,554**	$ 4,046	$ 1,294	$ 3,554	$ 8,894

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.
(2) Major assets consist of cash and deposits with banks, loans and acceptances net of allowance for credit losses, securities, securities borrowed or purchased under resale agreements, and derivative instruments.
(3) Includes Canadian currency of $397.8 billion (2016: $378.5 billion) and foreign currencies of $145.1 billion (2016: $104.4 billion).
(4) Includes loans and acceptances, net of allowance for credit losses, totalling $365.6 billion (2016: $319.8 billion). No industry or foreign jurisdiction accounts for more than 10% of this amount.
(5) Derivative instruments are presented at fair value.
(6) Does not include exchange-traded derivatives of $1,811 million (2016: $903 million).
(7) Includes positive fair value (net of CVA) of nil (2016: $3 million) on notional amounts of nil (2016: $0.4 billion) with financial guarantors.

In addition, see Note 22 for details on the client securities lending of the joint ventures which CIBC has with The Bank of New York Mellon.

Also see shaded sections in “MD&A – Management of risk” for a detailed discussion on our credit risk.

Note 25 | Related-party transactions

In the ordinary course of business, we provide banking services and enter into transactions with related parties on terms similar to those offered to unrelated parties. Related parties include key management personnel[1], their close family members, and entities that they or their close family members control or jointly control. Related parties also include associates and joint ventures accounted for under the equity method, and post-employment benefit plans for CIBC employees. Loans to these related parties are made in the ordinary course of business and on substantially the same terms as for comparable transactions with unrelated parties. As CIBC's subsidiaries are consolidated, transactions with these entities have been eliminated and are not reported as related-party transactions. We offer a subsidy on annual fees and preferential interest rates on credit card balances to senior officers which is the same offer extended to all employees of CIBC.

Key management personnel and their affiliates

As at October 31, 2017, loans to key management personnel [1] and their close family members and to entities that they or their close family members control or jointly control totalled $186 million (2016: $140 million), letters of credit and guarantees totalled $2 million (2016: $2 million), and undrawn credit commitments totalled $57 million (2016: $46 million).

These outstanding balances are generally unsecured and we have no provision for credit losses relating to these amounts for the years ended October 31, 2017 and 2016.

(1) Key management personnel are defined as those persons having authority and responsibility for planning, directing and controlling the activities of CIBC directly or indirectly and comprise the members of the Board (referred to as directors); and Executive Committee (ExCo) and certain named officers per the *Bank Act* (Canada) (collectively referred to as senior officers). Board members who are also ExCo members are included as senior officers.

Compensation of key management personnel

$ millions, for the year ended October 31	**2017**		2016	
	Directors	**Senior officers**	Directors	Senior officers
Short-term benefits [1]	**$ 2**	**$ 23**	$ 2	$ 22
Post-employment benefits	**–**	**3**	–	3
Share-based benefits [2]	**2**	**54**	2	27
Termination benefits	**–**	**14**	–	–
Total compensation	**$ 4**	**$ 94**	$ 4	$ 52

(1) Comprises salaries, statutory and non-statutory benefits related to senior officers and fees related to directors recognized during the year. Also includes annual incentive plan payments related to senior officers on a cash basis.
(2) Comprises grant-date fair values of awards granted in the year, including awards granted with respect to the acquisition of The PrivateBank, and changes to CIBC's leadership team.

Refer to the following Notes for additional details on related-party transactions:

Share-based payment plans

See Note 18 for details of these plans offered to directors and senior officers.

Post-employment benefit plans

See Note 19 for related-party transactions between CIBC and the post-employment benefit plans.

Equity-accounted associates and joint ventures

See Note 26 for details of our investments in equity-accounted associates and joint ventures.

Note 26 | Investments in equity-accounted associates and joint ventures

Joint ventures

CIBC is a 50/50 joint venture partner with The Bank of New York Mellon in two joint ventures: CIBC Mellon Trust Company and CIBC Mellon Global Securities Services Company, which provide trust and asset servicing, both in Canada. As at October 31, 2017, the carrying value of our investments in the joint ventures was $402 million (2016: $380 million), which was included in Corporate and Other.

As at October 31, 2017, loans to the joint ventures totalled nil (2016: $50 million) and undrawn credit commitments totalled $128 million (2016: $78 million).

CIBC, The Bank of New York Mellon, and CIBC Mellon have, jointly and severally, provided indemnities to customers of the joint ventures in respect of securities lending transactions. See Note 22 for additional details.

There was no unrecognized share of losses of any joint ventures, either for the year or cumulatively. In 2017 and 2016, none of our joint ventures experienced any significant restrictions to transfer funds in the form of cash dividends or distributions, or repayment of loans or advances.

The following table provides the summarized aggregate financial information related to our proportionate interest in the equity-accounted joint ventures:

$ millions, for the year ended October 31	**2017**	2016	2015
Net income	**$ 81**	$ 64	$ 57
OCI	**(30)**	2	(2)
Total comprehensive income	**$ 51**	$ 66	$ 55

Associates

As at October 31, 2017, the total carrying value of our investments in associates was $313 million (2016: $386 million). These investments comprise: listed associates with a carrying value of $157 million (2016: $201 million) and a fair value of $192 million (2016: $223 million); and unlisted associates with a carrying value of $156 million (2016: $185 million) and a fair value of $164 million (2016: $198 million). Of the total carrying value of our investments in associates, $2 million (2016: $2 million) was included in Canadian Personal and Small Business Banking, nil (2016: $33 million) in Canadian Commercial Banking and Wealth Management, nil (2016: nil) in U.S. Commercial Banking and Wealth Management, $291 million (2016: $330 million) in Capital Markets, and $20 million (2016: $21 million) in Corporate and Other.

As at October 31, 2017, loans to associates totalled nil (2016: nil) and undrawn credit commitments totalled $153 million (2016: $153 million). We also had commitments to invest up to nil (2016: nil) in our associates.

There was no unrecognized share of losses of any associate, either for the year or cumulatively. In 2017 and 2016, none of our associates experienced any significant restrictions to transfer funds in the form of cash dividends or distributions, or repayment of loans or advances.

The following table provides the summarized aggregate financial information related to our proportionate interest in equity-accounted associates:

$ millions, for the year ended October 31	**2017**	2016	2015
Net income	**$ 20**	$ 32	$ 120
OCI	**6**	4	(3)
Total comprehensive income	**$ 26**	$ 36	$ 117

Note 27 | Significant subsidiaries

The following is a list of significant subsidiaries in which CIBC, either directly or indirectly, owns 100% of the voting shares, except where noted.

$ millions, as at October 31, 2017

Subsidiary name [1]	Address of head or principal office	Book value of shares owned by CIBC [2]
Canada and U.S.		
CIBC Asset Management Inc.	Toronto, Ontario, Canada	**$ 444**
CIBC BA Limited	Toronto, Ontario, Canada	**– [3]**
CIBC Bancorp USA Inc.	Chicago, Illinois, U.S.	**7,408**
CIBC Bank USA	Chicago, Illinois, U.S.	
CIBC Investor Services Inc.	Toronto, Ontario, Canada	**25**
CIBC Life Insurance Company Limited	Toronto, Ontario, Canada	**23**
CIBC Mortgages Inc.	Toronto, Ontario, Canada	**230**
CIBC Securities Inc.	Toronto, Ontario, Canada	**2**
CIBC Trust Corporation	Toronto, Ontario, Canada	**591**
CIBC World Markets Inc.	Toronto, Ontario, Canada	**306**
CIBC WM Real Estate Ltd.	Toronto, Ontario, Canada	
CIBC WM Real Estate (Quebec) Ltd.	Montreal, Quebec, Canada	
CIBC Wood Gundy Financial Services Inc.	Toronto, Ontario, Canada	
CIBC Wood Gundy Financial Services (Quebec) Inc.	Montreal, Quebec, Canada	
CIBC USA Holdings Inc.	New York, New York, U.S.	
Atlantic Trust Group, LLC	Atlanta, Georgia, U.S.	
AT Investment Advisers, Inc.	Chicago, Illinois, U.S.	
Atlantic Trust Company, National Association	Atlanta, Georgia, U.S.	
Atlantic Trust Company of Delaware	Wilmington, Delaware, U.S.	
Canadian Imperial Holdings Inc.	New York, New York, U.S.	
CIBC Inc.	New York, New York, U.S.	
CIBC Capital Corporation	New York, New York, U.S.	
CIBC World Markets Corp.	New York, New York, U.S.	
INTRIA Items Inc.	Mississauga, Ontario, Canada	**100**
International		
CIBC Australia Ltd	Sydney, New South Wales, Australia	**19**
CIBC Holdings (Cayman) Limited	George Town, Grand Cayman, Cayman Islands	**9,933**
CIBC Cayman Bank Limited	George Town, Grand Cayman, Cayman Islands	
CIBC Cayman Capital Limited	George Town, Grand Cayman, Cayman Islands	
CIBC Investments (Cayman) Limited	George Town, Grand Cayman, Cayman Islands	
FirstCaribbean International Bank Limited (91.7%)	Warrens, St. Michael, Barbados	
CIBC Bank and Trust Company (Cayman) Limited (91.7%)	George Town, Grand Cayman, Cayman Islands	
CIBC Trust Company (Bahamas) Limited (91.7%)	Nassau, The Bahamas	
FirstCaribbean International Bank (Bahamas) Limited (87.3%)	Nassau, The Bahamas	
FirstCaribbean International Bank (Barbados) Limited (91.7%)	Warrens, St. Michael, Barbados	
FirstCaribbean International Bank (Cayman) Limited (91.7%)	George Town, Grand Cayman, Cayman Islands	
FirstCaribbean International Bank (Jamaica) Limited (91.7%)	Kingston, Jamaica	
FirstCaribbean International Bank (Trinidad and Tobago) Limited (91.7%)	Maraval, Port of Spain, Trinidad & Tobago	
FirstCaribbean International Wealth Management Bank (Barbados) Limited (91.7%)	Warrens, St. Michael, Barbados	
CIBC Reinsurance Company Limited	Warrens, St. Michael, Barbados	
CIBC World Markets (Japan) Inc.	Tokyo, Japan	**48**
CIBC World Markets plc	London, United Kingdom	**490**

(1) Each subsidiary is incorporated or organized under the laws of the state or country in which the principal office is situated, except for CIBC USA Holdings Inc., Canadian Imperial Holdings Inc., CIBC Inc., CIBC Capital Corporation, CIBC World Markets Corp., Atlantic Trust Group, LLC, AT Investment Advisers, Inc., and CIBC Bancorp USA Inc., which were incorporated or organized under the laws of the State of Delaware, U.S., and CIBC World Markets (Japan) Inc., which was incorporated in Barbados.
(2) The book value of shares of subsidiaries is shown at cost and may include non-voting common and preferred shares. These amounts are eliminated upon consolidation.
(3) The book value of shares owned by CIBC is less than $1 million.

In addition to the above, we consolidate certain SEs where we have control over the SE. See Note 6 for additional details.

Note 28 | Segmented and geographic information

CIBC has four SBUs – Canadian Personal and Small Business Banking, Canadian Commercial Banking and Wealth Management, U.S. Commercial Banking and Wealth Management, and Capital Markets. These SBUs are supported by Corporate and Other.

Canadian Personal and Small Business Banking provides personal and small business clients across Canada with financial advice, products and services through a team of advisors in our banking centres, as well as through our direct, mobile and remote channels.

Canadian Commercial Banking and Wealth Management provides high-touch, relationship-oriented commercial and private banking, as well as wealth management services to meet the needs of middle-market companies, entrepreneurs, high-net-worth individuals and families, along with institutional clients across Canada.

U.S. Commercial Banking and Wealth Management provides high-touch, relationship-oriented commercial, personal and small business banking, as well as wealth management services to meet the needs of middle-market companies, executives, entrepreneurs, high-net-worth individuals and families in the markets we serve in the U.S.

Capital Markets provides integrated global markets products and services, investment banking advisory and execution, corporate banking and top-ranked research to corporate, government and institutional clients around the world.

Corporate and Other includes the following functional groups – Administration, Client Connectivity and Innovation, Finance, Human Resources and Communications, Internal Audit, Risk Management, and Technology and Operations, as well as other support groups. The expenses of these functional and support groups are generally allocated to the business lines within the SBUs. The functional and support costs of CIBC Bank USA are recognized directly in the expenses of U.S. Commercial Banking and Wealth Management. Corporate and Other also includes the results of CIBC FirstCaribbean and other strategic investments, as well as other income statement and balance sheet items not directly attributable to the business lines.

Business unit allocations

Treasury activities impact the reported financial results of the SBUs. Each line of business within our SBUs is charged or credited with a market-based cost of funds on assets and liabilities, respectively, which impacts the revenue performance of the SBUs. Once the interest and liquidity risk inherent in our client-driven assets and liabilities is transfer priced into Treasury, it is managed within CIBC's risk framework and limits. The residual financial results associated with Treasury activities are reported in Corporate and Other, with the exception of certain Treasury activities in U.S. Commercial Banking and Wealth Management, which are reported in that SBU. Capital is attributed to the SBUs in a manner that is intended to consistently measure and align economic costs with the underlying benefits and risks associated with SBU activities. Earnings on unattributed capital remain in Corporate and Other. We review our transfer pricing methodologies on an ongoing basis to ensure they reflect changing market environments and industry practices.

Revenue, expenses, and other balance sheet resources related to certain activities are fully allocated to the lines of business within the SBUs.

To measure and report the results of operations of the lines of business within our Canadian Personal and Small Business Banking and Canadian Commercial Banking and Wealth Management SBUs, we use a Manufacturer/Customer Segment/Distributor Management Model. The model uses certain estimates and allocation methodologies to process internal payments between lines of business for sales, renewals and trailer commissions to facilitate preparation of segmented financial information. Periodically, the sales, renewals and trailer commission rates paid to customer segments for certain products/services are revised and applied prospectively.

Non-interest expenses are attributed to the SBUs to which they relate based on appropriate criteria.

The individual allowances and related provisions are reported in the respective SBUs. The collective allowances and related provisions are reported in Corporate and Other except for: (i) residential mortgages greater than 90 days delinquent; (ii) personal loans and scored small business loans greater than 30 days delinquent; and (iii) net write-offs for the card portfolio, which are all reported in the respective SBUs. All allowances and related provisions for CIBC FirstCaribbean are reported in Corporate and Other. All allowances and related provisions for CIBC Bank USA are reported in U.S. Commercial Banking and Wealth Management.

Changes made to our business segments

2017

The following external reporting changes were made in 2017. Prior period amounts were reclassified accordingly. The changes impacted the results of our SBUs, but there was no impact on prior period consolidated net income resulting from these reclassifications.

Fourth Quarter

Changes to our organizational structure

On June 20, 2017, we announced changes to CIBC's leadership team and organizational structure to further accelerate our transformation. As a result of these changes, our new reporting structure is as follows:

Canadian Personal and Small Business Banking – provides personal and small business clients across Canada with financial advice, products and services through a team of advisors in our banking centres, as well as through our direct, mobile and remote channels. Included in Canadian Personal and Small Business Banking are the following lines of business:

- Personal and small business banking; and
- Other.

Canadian Commercial Banking and Wealth Management – provides high-touch, relationship-oriented commercial and private banking, as well as wealth management services to meet the needs of middle-market companies, entrepreneurs, high-net-worth individuals and families, along with institutional clients across Canada. Included in Canadian Commercial Banking and Wealth Management are the following lines of business:

- Commercial banking; and
- Wealth management.

U.S. Commercial Banking and Wealth Management – provides high-touch, relationship-oriented commercial, personal and small business banking, as well as wealth management services to meet the needs of middle-market companies, executives, entrepreneurs, high-net-worth individuals and families in the markets we serve in the U.S. Included in U.S. Commercial Banking and Wealth Management are the following lines of business:
- Commercial banking;
- Wealth management; and
- Other.

Capital Markets – provides integrated global markets products and services, investment banking advisory and execution, corporate banking and top-ranked research to corporate, government and institutional clients around the world. Included in Capital Markets are the following lines of business:
- Global markets;
- Corporate and investment banking; and
- Other.

Corporate and Other – includes the following functional groups – Administration, Client Connectivity and Innovation, Finance, Human Resources and Communications, Internal Audit, Risk Management, and Technology and Operations, as well as other support groups. The expenses of these functional and support groups are generally allocated to the business lines within the SBUs. The functional and support costs of CIBC Bank USA are recognized directly in the expenses of U.S. Commercial Banking and Wealth Management. Corporate and Other also includes the results of CIBC FirstCaribbean and other strategic investments, as well as other income statement and balance sheet items not directly attributable to the business lines.

In addition to the above:
- The results of Geneva Advisors, LLC (Geneva Advisors) is included in the wealth management line of business within U.S. Commercial Banking and Wealth Management, after the close of the acquisition on August 31, 2017;
- The results of CIBC Investor's Edge, previously reported in Canadian Wealth Management, are now included in Canadian Personal and Small Business Banking; and
- The historical results of our minority investment in American Century Investments (ACI) sold in 2016 were reclassified from Canadian Wealth Management to Corporate and Other.

Changes to our transfer pricing methodology
The transfer pricing methodology used by Treasury to charge and credit the SBUs for the cost and benefit of funding assets and liabilities, respectively, was enhanced to better align to our liquidity risk models.

Third Quarter

U.S. Commercial Banking and Wealth Management
On June 23, 2017, we completed the acquisition of PrivateBancorp, Inc. (PrivateBancorp) and its subsidiary, The PrivateBank and Trust Company (The PrivateBank, subsequently rebranded as CIBC Bank USA). As a result of the acquisition, a new U.S. Commercial Banking and Wealth Management SBU was created.

In addition to the results of CIBC Bank USA, U.S. Commercial Banking and Wealth Management includes:
- The results of CIBC Atlantic Trust Private Wealth Management (CIBC Atlantic Trust) in the wealth management line of business, previously reported in the private wealth management line of business within the Wealth Management SBU; and
- The results of U.S. real estate finance in the commercial banking line of business, previously reported in the corporate and investment banking line of business within Capital Markets.

SBU name changes
Given the addition of the U.S. Commercial Banking and Wealth Management SBU, we changed the name of our Retail and Business Banking SBU to Canadian Retail and Business Banking, and the name of our Wealth Management SBU to Canadian Wealth Management. Further changes to our SBU structure were made in the fourth quarter, as noted above.

2016
The following external reporting changes were made in the first quarter of 2016. Prior period amounts were reclassified accordingly. The changes impacted the results of our SBUs, but there was no impact on consolidated net income resulting from these reclassifications.
- In the corporate and investment banking and business banking lines of business within Capital Markets and Canadian Retail and Business Banking, respectively, our client segmentation was redefined in a manner that reinforced our client-focused strategy, and resulted in a greater degree of industry specialization and expertise, while providing enhanced client coverage. We transferred client accounts accordingly between these lines of business.
- The transfer pricing methodology used by Treasury to charge and credit the SBUs for the cost and benefit of funding assets and liabilities, respectively, was enhanced to better align to our liquidity risk models.

In addition:

Within Capital Markets:
- Equity and debt underwriting revenue, previously shared between the global markets and corporate and investment banking lines of business, was transferred to be reported entirely within the corporate and investment banking line of business.

Within Canadian Wealth Management:
- The wealth advisory services business previously reported in the asset management line of business was transferred to the retail brokerage line of business.
- An "other" line of business was established to include the results of ACI, previously reported in the asset management line of business.

2015

Capital Markets

In November 2015, the name of this SBU was changed to Capital Markets from Wholesale Banking. This SBU comprises global markets, corporate and investment banking, and other.

Results by reporting segments and geographic areas

$ millions, for the year ended October 31		Canadian Personal and Small Business Banking	Canadian Commercial Banking and Wealth Management	U.S. Commercial Banking and Wealth Management	Capital Markets	Corporate and Other	CIBC Total	Canada [1]	U.S. [1]	Caribbean [1]	Other countries [1]
2017	**Net interest income** [2]	**$ 5,752**	**$ 984**	**$ 545**	**$ 1,647**	**$ 49**	**$ 8,977**	**$ 7,829**	**$ 449**	**$ 639**	**$ 60**
	Non-interest income	**2,193**	**3,045**	**331**	**1,164**	**570**	**7,303**	**5,720**	**675**	**646**	**262**
	Intersegment revenue [3]	**427**	**(439)**	**–**	**12**	**–**	**–**	**n/a**	**n/a**	**n/a**	**n/a**
	Total revenue	**8,372**	**3,590**	**876**	**2,823**	**619**	**16,280**	**13,549**	**1,124**	**1,285**	**322**
	Provision for (reversal of) credit losses	**766**	**16**	**84**	**(4)**	**(33)**	**829**	**730**	**68**	**31**	**–**
	Amortization and impairment [4]	**87**	**9**	**33**	**5**	**408**	**542**	**431**	**64**	**39**	**8**
	Other non-interest expenses	**4,261**	**2,012**	**501**	**1,368**	**887**	**9,029**	**7,534**	**805**	**518**	**172**
	Income (loss) before income taxes	**3,258**	**1,553**	**258**	**1,454**	**(643)**	**5,880**	**4,854**	**187**	**697**	**142**
	Income taxes [2]	**838**	**415**	**55**	**364**	**(510)**	**1,162**	**928**	**88**	**110**	**36**
	Net income (loss)	**$ 2,420**	**$ 1,138**	**$ 203**	**$ 1,090**	**$ (133)**	**$ 4,718**	**$ 3,926**	**$ 99**	**$ 587**	**$ 106**
	Net income (loss) attributable to:										
	Non-controlling interests	**$ –**	**$ –**	**$ –**	**$ –**	**$ 19**	**$ 19**	**$ –**	**$ –**	**$ 19**	**$ –**
	Equity shareholders	**2,420**	**1,138**	**203**	**1,090**	**(152)**	**4,699**	**3,926**	**99**	**568**	**106**
	Average assets [5]	**$ 246,316**	**$ 50,832**	**$ 19,905**	**$ 156,440**	**$ 68,872**	**$ 542,365**	**$ 451,831**	**$ 52,023**	**$ 28,553**	**$ 9,958**
2016 [6]	Net interest income [2]	$ 5,473	$ 930	$ 169	$ 1,958	$ (164)	$ 8,366	$ 7,639	$ 64	$ 577	$ 86
	Non-interest income	1,896	2,732	216	787	1,038	6,669	5,208	576	620	265
	Intersegment revenue [3]	379	(390)	–	11	–	–	n/a	n/a	n/a	n/a
	Total revenue	7,748	3,272	385	2,756	874	15,035	12,847	640	1,197	351
	Provision for (reversal of) credit losses	736	29	(2)	155	133	1,051	890	93	22	46
	Amortization and impairment [4]	91	13	14	5	339	462	374	46	35	7
	Other non-interest expenses	4,023	1,877	274	1,323	1,012	8,509	7,295	556	473	185
	Income (loss) before income taxes	2,898	1,353	99	1,273	(610)	5,013	4,288	(55)	667	113
	Income taxes [2]	738	362	12	281	(675)	718	616	(13)	87	28
	Net income (loss)	$ 2,160	$ 991	$ 87	$ 992	$ 65	$ 4,295	$ 3,672	$ (42)	$ 580	$ 85
	Net income (loss) attributable to:										
	Non-controlling interests	$ –	$ –	$ –	$ –	$ 20	$ 20	$ –	$ –	$ 20	$ –
	Equity shareholders	2,160	991	87	992	45	4,275	3,672	(42)	560	85
	Average assets [5]	$ 222,642	$ 46,555	$ 8,423	$ 154,805	$ 76,715	$ 509,140	$ 420,432	$ 53,694	$ 27,599	$ 7,415
2015 [6]	Net interest income [2]	$ 5,160	$ 893	$ 178	$ 1,691	$ (7)	$ 7,915	$ 7,221	$ 145	$ 458	$ 91
	Non-interest income	1,867	2,619	261	703	491	5,941	4,491	650	601	199
	Intersegment revenue [3]	353	(363)	–	10	–	–	n/a	n/a	n/a	n/a
	Total revenue	7,380	3,149	439	2,404	484	13,856	11,712	795	1,059	290
	Provision for (reversal of) credit losses	664	5	11	44	47	771	701	22	49	(1)
	Amortization and impairment [4]	91	13	14	4	313	435	348	42	38	7
	Other non-interest expenses	3,884	1,876	280	1,260	1,126	8,426	7,229	546	469	182
	Income (loss) before income taxes	2,741	1,255	134	1,096	(1,002)	4,224	3,434	185	503	102
	Income taxes [2]	715	334	30	249	(694)	634	462	48	97	27
	Net income (loss)	$ 2,026	$ 921	$ 104	$ 847	$ (308)	$ 3,590	$ 2,972	$ 137	$ 406	$ 75
	Net income (loss) attributable to:										
	Non-controlling interests	$ –	$ –	$ –	$ –	$ 14	$ 14	$ –	$ –	$ 14	$ –
	Equity shareholders	2,026	921	104	847	(322)	3,576	2,972	137	392	75
	Average assets [5]	$ 206,416	$ 40,626	$ 7,559	$ 134,723	$ 66,000	$ 455,324	$ 388,220	$ 40,170	$ 19,984	$ 6,950

(1) Net income and average assets are allocated based on the geographic location where they are recorded.
(2) Capital Markets and U.S. Commercial Banking and Wealth Management net interest income and income taxes include taxable equivalent basis (TEB) adjustments of $298 million and $2 million, respectively (2016: $474 million and nil, respectively; 2015: $482 million and nil, respectively) with an equivalent offset in Corporate and Other.
(3) Intersegment revenue represents internal sales commissions and revenue allocations under the Manufacturer/Customer Segment/Distributor Management Model.
(4) Comprises amortization and impairment of buildings, furniture, equipment, leasehold improvements, and software and other intangible assets.
(5) Assets are disclosed on an average basis as this measure is most relevant to a financial institution and is the measure reviewed by management.
(6) Certain information has been reclassified to conform to the presentation adopted in the current year.
n/a Not applicable.

The following table provides a breakdown of revenue from our reporting segments:

$ millions, for the year ended October 31	2017	2016 [1]	2015 [1]
Canadian Personal and Small Business Banking			
Personal and small business banking	**$ 8,033**	$ 7,675	$ 7,286
Other	**339**	73	94
	$ 8,372	$ 7,748	$ 7,380
Canadian Commercial Banking and Wealth Management			
Commercial banking	**$ 1,324**	$ 1,211	$ 1,119
Wealth management	**2,266**	2,061	2,030
	$ 3,590	$ 3,272	$ 3,149
U.S. Commercial Banking and Wealth Management [2]			
Commercial banking	**$ 523**	$ 166	$ 212
Wealth management	**318**	217	226
Other	**35**	2	1
	$ 876	$ 385	$ 439
Capital Markets [2]			
Global markets	**$ 1,601**	$ 1,645	$ 1,356
Corporate and investment banking	**1,216**	1,093	1,050
Other	**6**	18	(2)
	$ 2,823	$ 2,756	$ 2,404
Corporate and Other [2]			
International banking	**$ 723**	$ 722	$ 678
Other	**(104)**	152	(194)
	$ 619	$ 874	$ 484

(1) Certain information has been reclassified to conform to the presentation adopted in the current year.
(2) U.S. Commercial Banking and Wealth Management and Capital Markets revenue includes a TEB adjustment of $2 million and $298 million, respectively (2016: nil and $474 million, respectively; 2015: nil and $482 million, respectively) with an equivalent offset in Corporate and Other.

Note 29 | Financial instruments – disclosures

Certain disclosures required by IFRS 7 are provided in the shaded sections of the "MD&A – Management of risk", as permitted by IFRS. The following table provides a cross referencing of those disclosures to the MD&A.

Description	Section
For each type of risk arising from financial instruments, an entity shall disclose: the exposure to risks and how they arise; objectives, policies and processes used for managing the risks; methods used to measure the risk; and description of collateral.	Risk overview Credit risk Market risk Liquidity risk Operational risk Reputation and legal risk Regulatory compliance risk
Credit risk: gross exposure to credit risk, credit quality and concentration of exposures.	Credit risk
Market risk: trading portfolios – Value-at-Risk (VaR); stressed VaR, incremental risk charge, non-trading portfolios – interest rate risk, foreign exchange risk and equity risk.	Market risk
Liquidity risk: liquid assets, maturity of financial assets and liabilities, and credit commitments.	Liquidity risk

We have provided quantitative disclosures related to credit risk consistent with Basel guidelines in the "Credit risk" section of the MD&A, which require entities to disclose their exposures based on how they manage their business and risks. The table below sets out the categories of the on-balance sheet exposure to credit risk under different Basel approaches, displayed in both accounting categories and Basel portfolios.

		Accounting categories	Basel portfolios									
			AIRB and standardized approaches									
$ millions, as at October 31		Corporate	Sovereign	Bank	Real estate secured personal lending	Qualifying revolving retail	Other retail	Asset securitization	Total subject to credit risk	Not subject to credit risk	Total consolidated balance sheet
2017	**Cash and deposits with banks**	**$ 226**	**$ 7,588**	**$ 4,305**	**$ –**	**$ –**	**$ –**	**$ –**	**$ 12,119**	**$ 2,033**	**$ 14,152**
	Securities	**1,272**	**36,171**	**4,113**	**–**	**–**	**–**	**2,234**	**43,790**	**49,629**	**93,419**
	Cash collateral on securities borrowed	**2,441**	**22**	**2,572**	**–**	**–**	**–**	**–**	**5,035**	**–**	**5,035**
	Securities purchased under resale agreements	**14,014**	**20,880**	**5,489**	**–**	**–**	**–**	**–**	**40,383**	**–**	**40,383**
	Loans	**92,401**	**4,175**	**642**	**226,537**	**21,947**	**11,885**	**710**	**358,297**	**55**	**358,352**
	Allowance for credit losses	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**(1,618)**	**(1,618)**
	Derivative instruments	**7,039**	**4,139**	**13,164**	**–**	**–**	**–**	**–**	**24,342**	**–**	**24,342**
	Customers' liability under acceptances	**6,772**	**1,780**	**272**	**–**	**–**	**–**	**–**	**8,824**	**–**	**8,824**
	Other assets	**1,031**	**3,552**	**3,111**	**177**	**35**	**28**	**3**	**7,937**	**14,438**	**22,375**
	Total credit exposure	**$ 125,196**	**$ 78,307**	**$ 33,668**	**$ 226,714**	**$ 21,982**	**$ 11,913**	**$ 2,947**	**$ 500,727**	**$ 64,537**	**$ 565,264**
2016	Total credit exposure	$ 96,352	$ 64,554	$ 38,326	$ 204,225	$ 21,597	$ 10,465	$ 5,435	$ 440,954	$ 60,403	$ 501,357

Note 30 | Offsetting financial assets and liabilities

The following table identifies the amounts that have been offset on the consolidated balance sheet in accordance with the requirements of IAS 32 "Financial Instruments: Presentation", and also those amounts that are subject to enforceable netting agreements but do not qualify for offsetting on the consolidated balance sheet either because we do not have a currently enforceable legal right to set-off the recognized amounts, or because we do not intend to settle on a net basis or to realize the asset and settle the liability simultaneously.

Financial assets

	Amounts subject to enforceable netting agreements							
				Related amounts not set-off on the consolidated balance sheet				
$ millions, as at October 31	Gross amounts of recognized financial assets	Gross amounts offset on the consolidated balance sheet [1]	Net amounts	Financial instruments [2]	Collateral received [3]	Net amounts	Amounts not subject to enforceable netting agreements [4]	Net amounts presented on the consolidated balance sheet
2017								
Derivatives	**$ 31,147**	**$ (9,458)**	**$ 21,689**	**$ (13,977)**	**$ (3,939)**	**$ 3,773**	**$ 2,653**	**$ 24,342**
Cash collateral on securities borrowed	**5,035**	**–**	**5,035**	**–**	**(4,901)**	**134**	**–**	**5,035**
Securities purchased under resale agreements	**40,999**	**(616)**	**40,383**	**–**	**(40,334)**	**49**	**–**	**40,383**
	$ 77,181	**$ (10,074)**	**$ 67,107**	**$ (13,977)**	**$ (49,174)**	**$ 3,956**	**$ 2,653**	**$ 69,760**
2016								
Derivatives	$ 33,335	$ (7,239)	$ 26,096	$ (17,965)	$ (3,877)	$ 4,254	$ 1,666	$ 27,762
Cash collateral on securities borrowed	5,433	–	5,433	–	(5,282)	151	–	5,433
Securities purchased under resale agreements	30,731	(2,354)	28,377	–	(28,362)	15	–	28,377
	$ 69,499	$ (9,593)	$ 59,906	$ (17,965)	$ (37,521)	$ 4,420	$ 1,666	$ 61,572

Financial liabilities

	Amounts subject to enforceable netting agreements							
				Related amounts not set-off on the consolidated balance sheet				
$ millions, as at October 31	Gross amounts of recognized financial liabilities	Gross amounts offset on the consolidated balance sheet [1]	Net amounts	Financial instruments [2]	Collateral pledged [3]	Net amounts	Amounts not subject to enforceable netting agreements [4]	Net amounts presented on the consolidated balance sheet
2017								
Derivatives	**$ 31,058**	**$ (9,458)**	**$ 21,600**	**$ (13,977)**	**$ (5,468)**	**$ 2,155**	**$ 1,671**	**$ 23,271**
Cash collateral on securities lent	**2,024**	**–**	**2,024**	**–**	**(1,983)**	**41**	**–**	**2,024**
Obligations related to securities sold under repurchase agreements	**28,587**	**(616)**	**27,971**	**–**	**(27,924)**	**47**	**–**	**27,971**
	$ 61,669	**$ (10,074)**	**$ 51,595**	**$ (13,977)**	**$ (35,375)**	**$ 2,243**	**$ 1,671**	**$ 53,266**
2016								
Derivatives	$ 34,820	$ (7,239)	$ 27,581	$ (17,965)	$ (7,328)	$ 2,288	$ 1,226	$ 28,807
Cash collateral on securities lent	2,518	–	2,518	–	(2,473)	45	–	2,518
Obligations related to securities sold under repurchase agreements	14,048	(2,354)	11,694	–	(11,680)	14	–	11,694
	$ 51,386	$ (9,593)	$ 41,793	$ (17,965)	$ (21,481)	$ 2,347	$ 1,226	$ 43,019

(1) Comprises amounts related to financial instruments which qualify for offsetting. Effective beginning in 2017, derivatives cleared through the Chicago Mercantile Exchange (CME) are considered to be settled-to-market and not collateralized-to-market. Derivatives which are settled-to-market are settled on a daily basis, resulting in derecognition, rather than offsetting, of the related amounts. As a result, settled-to-market amounts are no longer considered to be subject to enforceable netting arrangements. In the absence of this change, an amount of $230 million as at October 31, 2017 relating to derivatives cleared through CME would otherwise have been considered to be offset on the consolidated balance sheet.

(2) Comprises amounts subject to set-off under enforceable netting agreements, such as ISDA agreements, derivative exchange or clearing counterparty agreements, global master repurchase agreements, and global master securities lending agreements. Under such arrangements, all outstanding transactions governed by the relevant agreement can be offset if an event of default or other predetermined event occurs.

(3) Collateral received and pledged amounts are reflected at fair value, but have been limited to the net balance sheet exposure so as not to include any over-collateralization.

(4) Includes contractual rights of set-off that are subject to uncertainty under the laws of the relevant jurisdiction, exchange-traded derivatives and derivatives which are settled-to-market.

The offsetting and collateral arrangements discussed above and other credit risk mitigation strategies used by CIBC are further explained in the "Credit risk" section of the MD&A. Certain amounts of securities received as collateral are restricted from being sold or re-pledged.

Note 31 | Interest income and expense

The table below provides the consolidated interest income and expense for both product and accounting categories. The consolidated amounts presented are reported before any interest income and expense associated with funding these assets and liabilities.

$ millions, for the year ended October 31		Amortized cost	Trading	AFS	HTM	FVO	Total
2017 [1]	**Interest income**						
	Loans	**$ 11,017**	**$ 8**	**$ –**	**$ –**	**$ 3**	**$ 11,028**
	Securities	**–**	**1,371**	**496**	**20**	**3**	**1,890**
	Securities borrowed or purchased under resale agreements	**495**	**–**	**–**	**–**	**–**	**495**
	Deposits with banks	**180**	**–**	**–**	**–**	**–**	**180**
		$ 11,692	**$ 1,379**	**$ 496**	**$ 20**	**$ 6**	**$ 13,593**
	Interest expense						
	Deposits	**$ 3,922**	**$ –**	**$ –**	**$ –**	**$ 31**	**$ 3,953**
	Securities sold short	**–**	**226**	**–**	**–**	**–**	**226**
	Securities lent or sold under repurchase agreements	**254**	**–**	**–**	**–**	**–**	**254**
	Subordinated indebtedness	**142**	**–**	**–**	**–**	**–**	**142**
	Other	**41**	**–**	**–**	**–**	**–**	**41**
		$ 4,359	**$ 226**	**$ –**	**$ –**	**$ 31**	**$ 4,616**
2016	**Interest income**						
	Loans	$ 9,824	$ 9	$ –	$ –	$ –	$ 9,833
	Securities	–	1,386	383	–	5	1,774
	Securities borrowed or purchased under resale agreements	329	–	–	–	–	329
	Deposits with banks	156	–	–	–	–	156
		$ 10,309	$ 1,395	$ 383	$ –	$ 5	$ 12,092
	Interest expense						
	Deposits	$ 3,197	$ –	$ –	$ –	$ 18	$ 3,215
	Securities sold short	–	199	–	–	–	199
	Securities lent or sold under repurchase agreements	127	–	–	–	–	127
	Subordinated indebtedness	137	–	–	–	–	137
	Other	48	–	–	–	–	48
		$ 3,509	$ 199	$ –	$ –	$ 18	$ 3,726
2015	**Interest income**						
	Loans	$ 9,557	$ 16	$ –	$ –	$ –	$ 9,573
	Securities	–	1,293	227	–	4	1,524
	Securities borrowed or purchased under resale agreements	310	–	–	–	–	310
	Deposits with banks	76	–	–	–	–	76
		$ 9,943	$ 1,309	$ 227	$ –	$ 4	$ 11,483
	Interest expense						
	Deposits	$ 2,965	$ –	$ –	$ –	$ 25	$ 2,990
	Securities sold short	–	230	–	–	–	230
	Securities lent or sold under repurchase agreements	110	–	–	–	–	110
	Subordinated indebtedness	181	–	–	–	–	181
	Other	57	–	–	–	–	57
		$ 3,313	$ 230	$ –	$ –	$ 25	$ 3,568

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See Note 3 for additional details.

Note 32 | Future accounting policy changes

IFRS 9 "Financial Instruments" (IFRS 9)

IFRS 9 replaces IAS 39 "Financial Instruments: Recognition and Measurement" and is effective for annual periods beginning on or after January 1, 2018, which for us would have been on November 1, 2018. Early application is permitted if an entity applies all the requirements of the standard. During 2015, OSFI issued a final advisory that requires D-SIBs to adopt IFRS 9 for their annual period beginning on November 1, 2017, one year earlier than required by the IASB. As a D-SIB, we will publish our first interim consolidated financial statements under IFRS 9 for the quarter ended January 31, 2018, except for the "own credit" provisions of IFRS 9, which we voluntarily early adopted as of November 1, 2014.

IFRS 9 is required to be applied on a retrospective basis, with certain exceptions. As permitted, we will not restate our prior period comparative consolidated financial statements when we adopt the requirements of the new standard. Differences in the carrying amounts of financial instruments resulting from the adoption of IFRS 9 will be recognized in our opening November 1, 2017 retained earnings and AOCI as if we had always followed the new requirements.

As permitted, we have elected to continue to apply the hedge accounting requirements of IAS 39. The key changes to our accounting policies and the expected impact resulting from the adoption of IFRS 9 are described below.

The application of IFRS 9 is expected to reduce our shareholders' equity by approximately $100 million on an after tax basis as at November 1, 2017. The impact to our regulatory capital is not expected to be material.

Classification and measurement

The IFRS 9 classification and measurement model requires that all debt instrument financial assets that do not meet a "solely payment of principal and interest" (SPPI) test, including those that contain embedded derivatives, be classified at initial recognition as fair value through profit or loss (FVTPL). The intent of the SPPI test is to ensure that debt instruments that contain non-basic lending features, such as conversion options and equity linked pay-outs, are measured at FVTPL. Subsequent measurement of instruments classified as FVTPL under IFRS 9 operates in a similar manner to trading under IAS 39.

For debt instrument financial assets that meet the SPPI test, classification at initial recognition will be determined based on the business model under which these instruments are managed. Debt instruments that are managed on a "held for trading" or "fair value" basis will be classified as FVTPL. Debt instruments that are managed on a "hold to collect and for sale" basis will be classified as fair value through OCI (FV-OCI) for debt. Debt instruments that are managed on a "hold to collect" basis will be classified as amortized cost. Subsequent measurement of instruments classified at FV-OCI and amortized cost classifications under IFRS 9 operate in a similar manner to AFS for debt securities and loans and receivables, respectively, under existing IAS 39, except for the impairment provisions which are discussed below.

For those debt instrument financial assets that would otherwise be classified as FV-OCI or amortized cost, an irrevocable designation can be made at initial recognition to instead measure the debt instrument at FVTPL under the FVO if doing so eliminates or significantly reduces an accounting mismatch and if certain OSFI requirements are met.

All equity instrument financial assets are required to be classified at initial recognition as FVTPL unless an irrevocable designation is made to classify the instrument as FV-OCI for equities. Unlike AFS for equity securities under IAS 39, the FV-OCI for equities category results in all realized and unrealized gains and losses being recognized in OCI with no recycling to profit and loss. Only dividends will continue to be recognized in profit and loss.

The classification and measurement of financial liabilities remain essentially unchanged from the current IAS 39 requirements, except that changes in fair value of FVO liabilities attributable to changes in own credit risk are to be presented in OCI, rather than profit and loss, which we early adopted as of November 1, 2014.

Derivatives will continue to be measured at FVTPL under IFRS 9.

As a result of the application of the classification and measurement requirements of IFRS 9, we expect to make the following reclassifications:

- Debt securities in our treasury portfolios of approximately $5.0 billion will be reclassified from AFS under IAS 39 to amortized cost under IFRS 9 with the majority of the remaining treasury securities reclassified to FV-OCI;
- Debt securities in our U.S. Commercial Banking and Wealth Management SBU of approximately $2.4 billion will be reclassified from HTM under IAS 39 to amortized cost under IFRS 9;
- Securities in our Capital Markets SBU, including certain lease-backed securities, of approximately $1 billion will be reclassified from AFS under IAS 39 to FVTPL under IFRS 9. Additional securities of approximately $1 billion will be reclassified from AFS under IAS 39 to amortized cost under IFRS 9. In addition, loans in our Capital Markets SBU, including certain lease-backed instruments, of approximately $400 million will be reclassified as FVTPL under IFRS 9; and
- The majority of our equity securities classified as AFS under IAS 39 to FV-OCI for equities under IFRS 9.

Impairment

The new impairment guidance sets out an expected credit loss (ECL) model applicable to all debt instrument financial assets classified as amortized cost or FV-OCI. In addition, the ECL model applies to loan commitments and financial guarantees that are not measured at FVTPL.

Expected Credit Loss Methodology

The application of ECL will significantly change our credit loss methodology and models. ECL allowances represent credit losses that reflect an unbiased and probability-weighted amount which is determined by evaluating a range of possible outcomes, the time value of money and reasonable and supportable information about past events, current conditions and forecasts of future economic conditions. ECL allowances will be measured at amounts equal to either: (i) 12-month ECL; or (ii) lifetime ECL for those financial instruments which have experienced a significant increase in credit risk (SICR) since initial recognition or when there is objective evidence of impairment. This compares to the present incurred loss model that incorporates a single best estimate, the time value of money and information about past events and current conditions and which recognizes lifetime credit losses when there is objective evidence of impairment and also allowances for incurred but not identified credit losses.

Stage Migration and Significant Increase in Credit Risk

Financial instruments subject to the ECL methodology are categorized into three stages.

For non-impaired financial instruments:

Stage 1 is comprised of all non-impaired financial instruments which have not experienced a SICR since initial recognition. Entities are required to recognize 12 months of ECL for stage 1 financial instruments. In assessing whether credit risk has increased significantly, entities are required to compare the risk of a default occurring on the financial instrument as at the reporting date, with the risk of a default occurring on the financial instrument as at the date of initial recognition.

Stage 2 is comprised of all non-impaired financial instruments which have experienced a SICR since initial recognition. Entities are required to recognize lifetime ECL for stage 2 financial instruments. In subsequent reporting periods, if the credit risk of the financial instrument improves such that there is no longer a SICR since initial recognition, then entities shall revert to recognizing 12 months of ECL. In contrast to stage 1 and stage 2, inherent within the incurred loss methodology under IAS 39, allowances are provided for non-impaired financial instruments for credit losses that are incurred but not yet identified.

For impaired financial instruments:

Financial instruments are classified as stage 3 when there is objective evidence of impairment as a result of one or more loss events that have occurred after initial recognition with a negative impact on the estimated future cash flows of a loan or a portfolio of loans. The ECL model requires that lifetime ECL be recognized for impaired financial instruments, which is similar to the current requirements under IAS 39 for impaired financial instruments.

For our business and government portfolios, the individually assessed allowances for impaired instruments recognized under IAS 39 will generally be replaced by stage 3 allowances under IFRS 9, while the collective allowances for non-impaired financial instruments will generally be replaced by either stage 1 or stage 2 allowances under IFRS 9. For our retail portfolios, the portion of our collective allowances that relate to impaired financial instruments under IAS 39 will generally be replaced by stage 3 allowances, while the non-impaired portion of our collective allowances will generally be replaced by either stage 1 or stage 2 allowances under IFRS 9.

IFRS 15 "Revenue From Contracts with Customers" (IFRS 15)

IFRS 15 – issued in May 2014, replaces prior guidance, including IAS 18 "Revenue" and IFRIC 13 "Customer Loyalty Programmes". In April 2016, the IASB issued amendments to the standard that clarified specific guidance and provided additional transitional relief. IFRS 15 is effective for annual periods beginning on or after January 1, 2018, which for us will be on November 1, 2018, and can be applied on a retrospective basis or using a modified retrospective approach. We plan to adopt IFRS 15 using the modified retrospective approach by recognizing the cumulative effect of initial application in opening retained earnings as of the effective date. Use of the modified retrospective approach will require us to provide additional disclosures in the year of adoption that would not be required if we apply the standard on a retrospective basis.

The new guidance includes a five-step, principles-based recognition and measurement approach, as well as requirements for accounting for contract costs, and enhanced quantitative and qualitative disclosure requirements. IFRS 15 excludes from its scope revenue related to lease contracts, insurance contracts and financial instruments. As a result, the majority of our revenue will not be impacted by the adoption of this standard, including net interest income.

We continue to evaluate the effect of this standard on our financial statements, including the presentation of revenue and expense items, and the timing and measurement of revenue for certain types of contracts. We do not currently expect a material impact to our consolidated financial statements as a result of adopting this standard.

IFRS 16 "Leases" (IFRS 16)

IFRS 16 – issued in January 2016, replaces IAS 17 "Leases" and is effective for annual periods beginning on or after January 1, 2019, which for us will be on November 1, 2019. Early application is permitted if IFRS 15 has also been applied. For lessees, the new standard will result in on-balance sheet recognition for many leases that are considered operating leases under IAS 17, which will result in the gross-up of the balance sheet through the recognition of a right-of-use asset and a liability for the lease component of the future payments. Depreciation expense on the right-of-use asset and interest expense on the lease liability will replace the operating lease expense. The accounting for leases by lessors remains mostly unchanged from IAS 17.

We continue to evaluate the impact of IFRS 16 on our consolidated financial statements.

IFRS 17 "Insurance Contracts" (IFRS 17)

IFRS 17 – issued in May 2017, replaces IFRS 4 "Insurance Contracts", and is effective for annual periods beginning on or after January 1, 2021, which for us will be on November 1, 2021. IFRS 17 provides comprehensive guidance on the recognition, measurement, presentation and disclosures of insurance contracts.

We continue to evaluate the impact of IFRS 17 on our consolidated financial statements.

Exhibit B.3(c): Management's discussion and analysis excerpted from pages 1-93 of CIBC's 2017 Annual Report

Management's discussion and analysis

Management's discussion and analysis (MD&A) is provided to enable readers to assess CIBC's financial condition and results of operations as at and for the year ended October 31, 2017, compared with prior years. The MD&A should be read in conjunction with the audited consolidated financial statements. Unless otherwise indicated, all financial information in this MD&A has been prepared in accordance with International Financial Reporting Standards (IFRS or GAAP) and all amounts are expressed in Canadian dollars. Certain disclosures in the MD&A have been shaded as they form an integral part of the consolidated financial statements. The MD&A is current as of November 29, 2017. Additional information relating to CIBC, including the Annual Information Form, is available on SEDAR at www.sedar.com and on the U.S. Securities and Exchange Commission's (SEC) website at www.sec.gov. No information on CIBC's website (www.cibc.com) should be considered incorporated herein by reference. A glossary of terms used in the MD&A and the audited consolidated financial statements is provided on pages 178 to 183 of this Annual Report.

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A NOTE ABOUT FORWARD-LOOKING STATEMENTS: From time to time, we make written or oral forward-looking statements within the meaning of certain securities laws, including in this Annual Report, in other filings with Canadian securities regulators or the SEC and in other communications. All such statements are made pursuant to the "safe harbour" provisions of, and are intended to be forward-looking statements under applicable Canadian and U.S. securities legislation, including the U.S. Private Securities Litigation Reform Act of 1995. These statements include, but are not limited to, statements made in the "Message from the President and Chief Executive Officer", "Overview – Performance against objectives", "Financial performance overview – Taxes", "Financial performance overview – Significant events", "Financial performance overview – Outlook for calendar year 2018", "Strategic business units overview – Canadian Personal and Small Business Banking", "Strategic business units overview – Canadian Commercial Banking and Wealth Management", "Strategic business units overview – U.S. Commercial Banking and Wealth Management", "Strategic business units overview – Capital Markets", "Financial condition – Capital resources", "Financial condition – Off-balance sheet arrangements", "Management of risk – Risk overview", "Management of risk – Top and emerging risks", "Management of risk – Credit risk", "Management of risk – Market risk", "Management of risk – Liquidity risk", "Accounting and control matters – Critical accounting policies and estimates", "Accounting and control matters – Financial instruments", "Accounting and control matters – Accounting developments", "Accounting and control matters – Regulatory developments" and "Accounting and control matters – Controls and procedures" sections of this report and other statements about our operations, business lines, financial condition, risk management, priorities, targets, ongoing objectives, strategies, the regulatory environment in which we operate and outlook for calendar year 2018 and subsequent periods. Forward-looking statements are typically identified by the words "believe", "expect", "anticipate", "intend", "estimate", "forecast", "target", "objective" and other similar expressions or future or conditional verbs such as "will", "should", "would" and "could". By their nature, these statements require us to make assumptions, including the economic assumptions set out in the "Financial performance overview – Outlook for calendar year 2018" section of this report, and are subject to inherent risks and uncertainties that may be general or specific. A variety of factors, many of which are beyond our control, affect our operations, performance and results, and could cause actual results to differ materially from the expectations expressed in any of our forward-looking statements. These factors include: credit, market, liquidity, strategic, insurance, operational, reputation and legal, regulatory and environmental risk; the effectiveness and adequacy of our risk management and valuation models and processes; legislative or regulatory developments in the jurisdictions where we operate, including the Dodd-Frank Wall Street Reform and Consumer Protection Act and the regulations issued and to be issued thereunder, the Organisation for Economic Co-operation and Development Common Reporting Standard, and regulatory reforms in the United Kingdom and Europe, the Basel Committee on Banking Supervision's global standards for capital and liquidity reform, and those relating to bank recapitalization legislation and the payments system in Canada; amendments to, and interpretations of, risk-based capital guidelines and reporting instructions, and interest rate and liquidity regulatory guidance; the resolution of legal and regulatory proceedings and related matters; the effect of changes to accounting standards, rules and interpretations; changes in our estimates of reserves and allowances; changes in tax laws; changes to our credit ratings; political conditions and developments, including changes relating to economic or trade matters; the possible effect on our business of international conflicts and the war on terror; natural disasters, public health emergencies, disruptions to public infrastructure and other catastrophic events; reliance on third parties to provide components of our business infrastructure; potential disruptions to our information technology systems and services; increasing cyber security risks which may include theft of assets, unauthorized access to sensitive information, or operational disruption; social media risk; losses incurred as a result of internal or external fraud; anti-money laundering; the accuracy and completeness of information provided to us concerning clients and counterparties; the failure of third parties to comply with their obligations to us and our affiliates or associates; intensifying competition from established competitors and new entrants in the financial services industry including through internet and mobile banking; technological change; global capital market activity; changes in monetary and economic policy; currency value and interest rate fluctuations, including as a result of market and oil price volatility; general business and economic conditions worldwide, as well as in Canada, the U.S. and other countries where we have operations, including increasing Canadian household debt levels and global credit risks; our success in developing and introducing new products and services, expanding existing distribution channels, developing new distribution channels and realizing increased revenue from these channels; changes in client spending and saving habits; our ability to attract and retain key employees and executives; our ability to successfully execute our strategies and complete and integrate acquisitions and joint ventures; the risk that expected synergies and benefits of the acquisition of PrivateBancorp, Inc. will not be realized within the expected time frame or at all; and our ability to anticipate and manage the risks associated with these factors. This list is not exhaustive of the factors that may affect any of our forward-looking statements. These and other factors should be considered carefully and readers should not place undue reliance on our forward-looking statements. Any forward-looking statements contained in this report represent the views of management only as of the date hereof and are presented for the purpose of assisting our shareholders and financial analysts in understanding our financial position, objectives and priorities and anticipated financial performance as at and for the periods ended on the dates presented, and may not be appropriate for other purposes. We do not undertake to update any forward-looking statement that is contained in this report or in other communications except as required by law.

External reporting changes

The following external reporting changes were made in 2017. Prior period amounts were reclassified accordingly. The changes impacted the results of our strategic business units (SBUs), but there was no impact on prior period consolidated net income resulting from these reclassifications.

Fourth Quarter

Changes to our organizational structure

On June 20, 2017, we announced changes to CIBC's leadership team and organizational structure to further accelerate our transformation. As a result of these changes, our new reporting structure is as follows:

Canadian Personal and Small Business Banking – provides personal and small business clients across Canada with financial advice, products and services through a team of advisors in our banking centres, as well as through our direct, mobile and remote channels. Included in Canadian Personal and Small Business Banking are the following lines of business:
- Personal and small business banking; and
- Other.

Canadian Commercial Banking and Wealth Management – provides high-touch, relationship-oriented commercial and private banking, as well as wealth management services to meet the needs of middle-market companies, entrepreneurs, high-net-worth individuals and families, along with institutional clients across Canada. Included in Canadian Commercial Banking and Wealth Management are the following lines of business:
- Commercial banking; and
- Wealth management.

U.S. Commercial Banking and Wealth Management – provides high-touch, relationship-oriented commercial, personal and small business banking, as well as wealth management services to meet the needs of middle-market companies, executives, entrepreneurs, high-net-worth individuals and families in the markets we serve in the U.S. Included in U.S. Commercial Banking and Wealth Management are the following lines of business:
- Commercial banking;
- Wealth management; and
- Other.

Capital Markets – provides integrated global markets products and services, investment banking advisory and execution, corporate banking and top-ranked research to corporate, government and institutional clients around the world. Included in Capital Markets are the following lines of business:
- Global markets;
- Corporate and investment banking; and
- Other.

Corporate and Other – includes the following functional groups – Administration, Client Connectivity and Innovation, Finance, Human Resources and Communications, Internal Audit, Risk Management, and Technology and Operations, as well as other support groups. The expenses of these functional and support groups are generally allocated to the business lines within the SBUs. The functional and support costs of CIBC Bank USA are recognized directly in the expenses of U.S. Commercial Banking and Wealth Management. Corporate and Other also includes the results of FirstCaribbean International Bank Limited (CIBC FirstCaribbean) and other strategic investments, as well as other income statement and balance sheet items not directly attributable to the business lines.

In addition to the above:
- The results of Geneva Advisors, LLC (Geneva Advisors) is included in the wealth management line of business within U.S. Commercial Banking and Wealth Management, after the close of the acquisition on August 31, 2017;
- The results of CIBC Investor's Edge, previously reported in Canadian Wealth Management, are now included in Canadian Personal and Small Business Banking; and
- The historical results of our minority investment in American Century Investments (ACI) sold in 2016 were reclassified from Canadian Wealth Management to Corporate and Other.

Changes to our transfer pricing methodology

The transfer pricing methodology used by Treasury to charge and credit the SBUs for the cost and benefit of funding assets and liabilities, respectively, was enhanced to better align to our liquidity risk models.

Third Quarter

U.S. Commercial Banking and Wealth Management

On June 23, 2017, we completed the acquisition of PrivateBancorp, Inc. (PrivateBancorp) and its subsidiary, The PrivateBank and Trust Company (The PrivateBank, subsequently rebranded as CIBC Bank USA). As a result of the acquisition, a new U.S. Commercial Banking and Wealth Management SBU was created.

In addition to the results of CIBC Bank USA, U.S. Commercial Banking and Wealth Management includes:
- The results of CIBC Atlantic Trust Private Wealth Management (CIBC Atlantic Trust) in the wealth management line of business, previously reported in the private wealth management line of business within the Wealth Management SBU; and
- The results of U.S. real estate finance in the commercial banking line of business, previously reported in the corporate and investment banking line of business within Capital Markets.

SBU name changes

Given the addition of the U.S. Commercial Banking and Wealth Management SBU, we changed the name of our Retail and Business Banking SBU to Canadian Retail and Business Banking, and the name of our Wealth Management SBU to Canadian Wealth Management. Further changes to our SBU structure were made in the fourth quarter, as noted above.

Overview

CIBC is a leading Canadian-based global financial institution with a market capitalization of $50 billion and a Basel III Common Equity Tier 1 (CET1) ratio of 10.6%. Through our four strategic business units – Canadian Personal and Small Business Banking, Canadian Commercial Banking and Wealth Management, U.S. Commercial Banking and Wealth Management, and Capital Markets – CIBC provides a full range of financial products and services to 11 million individual, small business, commercial, corporate and institutional clients in Canada, the U.S. and around the world. We have approximately 45,000 employees dedicated to providing our clients with banking that fits their lives, delivering consistent and sustainable earnings growth for our shareholders, and giving back to our communities.

CIBC's strategy

At CIBC, we are building a relationship-focused bank. We have been accelerating our transformation by concentrating on three strategic bank-wide priorities:

- **Focusing on our clients** – we continue to shift our culture and drive towards our vision of being the leader in client relationships.
- **Innovating for the future** – we are investing in technologies that meet our clients' ever-evolving needs and improve their banking experience.
- **Simplifying our bank** – we are simplifying our bank to free up resources for reinvestment and make CIBC more efficient.

Performance against objectives

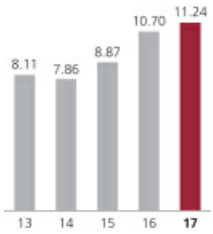
For many years, CIBC has reported a scorecard of financial measures that we use to evaluate and report on our progress to external stakeholders. These measures can be categorized into five key areas of shareholder value – earnings growth, efficiency ratio, return on common shareholders' equity (ROE), total shareholder return (TSR) and balance sheet strength. To gauge our progress towards our goal of becoming the leader in client relationships, we report our Net Promoter Score (NPS) progress against our peers. We have set targets for each of these measures over the medium term, which we define as three to five years.

Earnings growth(1)

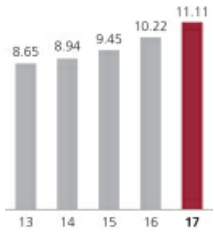
To assess our earnings growth, we monitor our earnings per share (EPS). Our target beginning in 2017 is average annual EPS growth of at least 5%. In 2017, we achieved our target, delivering reported and adjusted(1) diluted EPS growth of 5% and 9%, respectively.

Going forward, we are maintaining our target to deliver average annual EPS growth of at least 5%.

Reported diluted EPS
($)



Adjusted diluted EPS(1)
($)

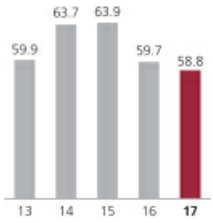


Efficiency ratio(1)

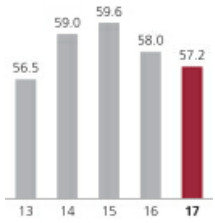
To assess how well we use our assets to generate net income, we measure and monitor our efficiency ratio, defined as the ratio of non-interest expenses to total revenue. In 2017, CIBC's reported and adjusted(1) efficiency ratios improved to 58.8% and 57.2%, respectively, from 59.7% and 58.0% in 2016.

CIBC has set a medium-term target of achieving a run rate efficiency ratio of 55% by 2019.

Reported efficiency ratio
(%)



Adjusted efficiency ratio(1)
(%)

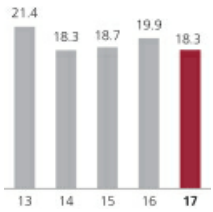


Return on common shareholders' equity(1)

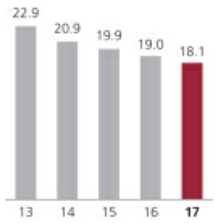
ROE is another key measure of shareholder value. In 2017, CIBC's reported and adjusted(1) ROE were strong, at 18.3% and 18.1%, respectively, above our target of at least 15%.

Going forward, we will continue to target a strong ROE of at least 15%.

Reported return on common shareholders' equity
(%)



Adjusted return on common shareholders' equity(1)
(%)



(1) For additional information, see the "Non-GAAP measures" section.

Total shareholder return

TSR is the ultimate measure of shareholder value, and the output of delivering against the financial targets within our control.

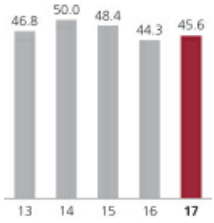
We have two shareholder return targets:

1. For many years, we have consistently delivered adjusted dividend payout ratios in the range of 40% to 50% of earnings to common shareholders. Our key criteria for considering dividend increases are our current level of payout relative to our target and our view on the sustainability of our current earnings level through the cycle. In 2017, our reported and adjusted(1) dividend payout ratios were 45.6% and 46.2%, respectively.

   Going forward, we will continue to target a dividend payout ratio of 40% to 50%.

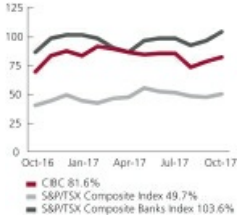
2. We also have an objective to deliver a TSR that exceeds the industry average, which we have defined as the Standard & Poor's Ratings Services (S&P)/Toronto Stock Exchange (TSX) Composite Banks Index, over a rolling five-year period. For the five years ended October 31, 2017, CIBC delivered a TSR of 81.6%, which was below the Banks Index return over the same period of 103.6%.

Reported dividend payout ratio
(%)



Adjusted dividend payout ratio(1)
(%)

Rolling five-year TSR
(%)



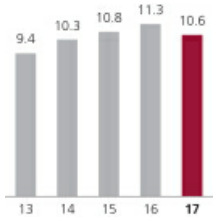
Balance sheet strength

Maintaining a strong balance sheet is foundational to our long-term success. Our goal is to maintain strong capital ratios that comfortably exceed regulatory targets.

We look to constantly balance our objectives of holding a prudent amount of excess capital for unexpected events and environmental uncertainties, investing in our core businesses, growing through acquisitions and returning capital to our shareholders. At the end of 2017, our Basel III CET1 ratio on an all-in basis was 10.6%, well above the current all-in regulatory target set by the Office of the Superintendent of Financial Institutions (OSFI).

In addition to our capital objectives, we remain focused on asset quality and a strong funding profile as key underpinnings of a strong and stable balance sheet.

CET1 ratio
(%)

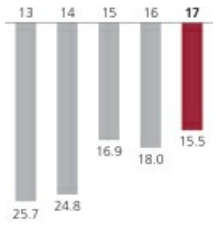


Net promoter score

The NPS is a measure of client experience and is calculated by subtracting the percentage of detractors from the percentage of promoters who respond to surveys conducted by a third party. It is a key measure of client loyalty.

While there is still work to be done to achieve our goal of #1 in client experience, CIBC's gap to the leader has narrowed from 26 points in 2013 to 16 points in 2017.

Ipsos CSI NPS Gap to #1(2)



(1) For additional information, see the "Non-GAAP measures" section.
(2) Gap to #1 is a measure of CIBC's ranking relative to Canada's Big 5 banks.

Economic and market environment

CIBC operated in an environment of healthy economic growth in Canada and an improving backdrop abroad in 2017. Canada enjoyed low unemployment rates that supported an acceleration in spending and consumer credit. The housing sector and growth in mortgage credit showed some signs of cooling as the year progressed, capturing regulatory and interest rate policy decisions. Corporate credit quality improved on a rebound in oil prices and a generally healthy environment, while business loan demand grew at a somewhat slower pace. Bond market issuance activity by corporations and the federal government picked up, while equity issuance activity was lighter due to less merger and acquisition-driven activity. The U.S. economy showed steady growth and robust employment gains with somewhat slower national growth in bank lending and strong equity market gains.

Financial performance overview

Financial highlights

As at or for the year ended October 31		2017 (1)	2016	2015	2014	2013
Financial results ($ millions)						
Net interest income		**$ 8,977**	$ 8,366	$ 7,915	$ 7,459	$ 7,453
Non-interest income		**7,303**	6,669	5,941	5,904	5,252
Total revenue		**16,280**	15,035	13,856	13,363	12,705
Provision for credit losses		**829**	1,051	771	937	1,121
Non-interest expenses		**9,571**	8,971	8,861	8,512	7,608
Income before income taxes		**5,880**	5,013	4,224	3,914	3,976
Income taxes		**1,162**	718	634	699	626
Net income		**$ 4,718**	$ 4,295	$ 3,590	$ 3,215	$ 3,350
Net income (loss) attributable to non-controlling interests		**19**	20	14	(3)	(2)
Preferred shareholders		**52**	38	45	87	99
Common shareholders		**4,647**	4,237	3,531	3,131	3,253
Net income attributable to equity shareholders		**$ 4,699**	$ 4,275	$ 3,576	$ 3,218	$ 3,352
Financial measures						
Reported efficiency ratio		**58.8 %**	59.7 %	63.9 %	63.7 %	59.9 %
Adjusted efficiency ratio (2)		**57.2 %**	58.0 %	59.6 %	59.0 %	56.5 %
Loan loss ratio (3)		**0.25 %**	0.31 %	0.27 %	0.38 %	0.44 %
Reported return on common shareholders' equity		**18.3 %**	19.9 %	18.7 %	18.3 %	21.4 %
Adjusted return on common shareholders' equity (2)		**18.1 %**	19.0 %	19.9 %	20.9 %	22.9 %
Net interest margin		**1.66 %**	1.64 %	1.74 %	1.81 %	1.85 %
Net interest margin on average interest-earning assets		**1.85 %**	1.88 %	2.00 %	2.05 %	2.12 %
Return on average assets		**0.87 %**	0.84 %	0.79 %	0.78 %	0.83 %
Return on average interest-earning assets		**0.97 %**	0.96 %	0.91 %	0.89 %	0.95 %
Total shareholder return		**18.30 %**	5.19 %	1.96 %	20.87 %	18.41 %
Reported effective tax rate		**19.8 %**	14.3 %	15.0 %	17.9 %	15.8 %
Adjusted effective tax rate (2)		**20.3 %**	16.6 %	15.5 %	15.4 %	16.5 %
Common share information						
Per share ($)	– basic earnings	**$ 11.26**	$ 10.72	$ 8.89	$ 7.87	$ 8.11
	– reported diluted earnings	**11.24**	10.70	8.87	7.86	8.11
	– adjusted diluted earnings (2)	**11.11**	10.22	9.45	8.94	8.65
	– dividends	**5.08**	4.75	4.30	3.94	3.80
	– book value	**66.55**	56.59	51.25	44.30	40.36
Share price ($)	– high	**119.86**	104.46	107.16	107.01	88.70
	– low	**97.76**	83.33	86.00	85.49	74.10
	– closing	**113.56**	100.50	100.28	102.89	88.70
Shares outstanding (thousands)	– weighted-average basic (4)(5)	**412,636**	395,389	397,213	397,620	400,880
	– weighted-average diluted (4)	**413,563**	395,919	397,832	398,420	401,261
	– end of period (4)(5)	**439,313**	397,070	397,291	397,021	399,250
Market capitalization ($ millions)		**$ 49,888**	$ 39,906	$ 39,840	$ 40,850	$ 35,413
Value measures						
Dividend yield (based on closing share price)		**4.5 %**	4.7 %	4.3 %	3.8 %	4.3 %
Reported dividend payout ratio		**45.6 %**	44.3 %	48.4 %	50.0 %	46.8 %
Adjusted dividend payout ratio (2)		**46.2 %**	46.4 %	45.4 %	44.0 %	43.9 %
Market value to book value ratio		**1.71**	1.78	1.96	2.32	2.20
On- and off-balance sheet information ($ millions)						
Cash, deposits with banks and securities		**$ 107,571**	$ 101,588	$ 93,619	$ 73,089	$ 78,363
Loans and acceptances, net of allowance		**365,558**	319,781	290,981	268,240	256,380
Total assets		**565,264**	501,357	463,309	414,903	398,006
Deposits		**439,706**	395,647	366,657	325,393	315,164
Common shareholders' equity		**29,238**	22,472	20,360	17,588	16,113
Average assets		**542,365**	509,140	455,324	411,481	403,546
Average interest-earning assets		**485,837**	445,134	395,616	362,997	351,687
Average common shareholders' equity		**25,393**	21,275	18,857	17,067	15,167
Assets under administration (AUA) (6)(7)		**2,192,947**	2,041,887	1,846,142	1,703,360	1,499,885
Assets under management (AUM) (7)		**221,571**	183,715	170,465	151,913	105,123
Balance sheet quality (All-in basis) and liquidity measures						
Risk-weighted assets (RWA) ($ millions)						
CET1 capital RWA		**$ 203,321**	$ 168,996	$ 156,107	$ 141,250	$ 136,747
Tier 1 capital RWA		**203,321**	169,322	156,401	141,446	136,747
Total capital RWA		**203,321**	169,601	156,652	141,739	136,747
Capital ratios						
CET1 ratio		**10.6 %**	11.3 %	10.8 %	10.3 %	9.4 %
Tier 1 capital ratio		**12.1 %**	12.8 %	12.5 %	12.2 %	11.6 %
Total capital ratio		**13.8 %**	14.8 %	15.0 %	15.5 %	14.6 %
Basel III leverage ratio						
Leverage ratio exposure ($ millions)		**$ 610,353**	$ 545,480	$ 502,552	n/a	n/a
Leverage ratio		**4.0 %**	4.0 %	3.9 %	n/a	n/a
Liquidity coverage ratio (LCR) (8)		**120 %**	124 %	119 %	n/a	n/a
Other information						
Full-time equivalent employees		**44,928**	43,213	44,201	44,424	43,039

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
(2) For additional information, see the "Non-GAAP measures" section.
(3) The ratio is calculated as the provision for credit losses on impaired loans to average loans and acceptances, net of allowance for credit losses.
(4) Excludes 2,010,890 common shares which are issued and outstanding but which have not been acquired by a third party as at October 31, 2017 (2016: nil). These shares were issued as a component of our acquisition of The PrivateBank. These shares are currently held on behalf of CIBC, and may be cancelled at CIBC's discretion.
(5) Excludes 190,285 unvested restricted shares as at October 31, 2017 (2016: nil).
(6) Includes the full contract amount of AUA or custody under a 50/50 joint venture between CIBC and The Bank of New York Mellon of $1,723.9 billion as at October 31, 2017 (2016: $1,640.2 billion).
(7) AUM amounts are included in the amounts reported under AUA.
(8) Average for the three months ended October 31 for each respective year.
n/a Not applicable.

2017 Financial results

Reported net income for the year was $4,718 million, compared with $4,295 million in 2016. The current year included the results of CIBC Bank USA after the close of the acquisition on June 23, 2017, which contributed $96 million to net income.

Adjusted net income[1] for the year was $4,665 million, compared with $4,104 million in 2016.

Reported diluted EPS for the year was $11.24, compared with $10.70 in 2016.

Adjusted diluted EPS[1] for the year was $11.11, compared with $10.22 in 2016.

Reported and adjusted diluted EPS for the year included the results of CIBC Bank USA after the close of the acquisition on June 23, 2017. EPS was also impacted by the issuance of CIBC common shares, as detailed in Note 3 to our consolidated financial statements.

2017

Net income was affected by the following items of note:

- $299 million ($245 million after-tax) gain on the sale and lease back of certain retail properties (Canadian Personal and Small Business Banking);
- $104 million ($73 million after-tax) in transaction and integration-related costs as well as purchase accounting adjustments [2] associated with the acquisition of The PrivateBank and Geneva Advisors ($70 million after-tax in Corporate and Other, and $3 million after-tax in U.S. Commercial Banking and Wealth Management);
- $45 million ($33 million after-tax) increase in legal provisions in the third quarter (Corporate and Other);
- $41 million ($28 million after-tax) amortization of intangible assets ($4 million after-tax in Canadian Personal and Small Business Banking, $1 million after-tax in Canadian Commercial Banking and Wealth Management, $16 million after-tax in U.S. Commercial Banking and Wealth Management, and $7 million after-tax in Corporate and Other);
- $98 million ($71 million after-tax) in fees and charges related to the launch of Simplii Financial and the related wind-down of President's Choice Financial (Canadian Personal and Small Business Banking); and
- $18 million ($13 million after-tax) reduction in the portion of the collective allowance recognized in Corporate and Other [3] in the fourth quarter.

The above items of note increased revenue by $305 million, provision for credit losses by $17 million and non-interest expenses by $259 million, and decreased income taxes by $24 million. In aggregate, these items of note increased net income by $53 million.

2016

Net income was affected by the following items of note:

- $428 million ($383 million after-tax) gain, net of related transaction costs, on the sale of our minority investment in American Century Investments (ACI) (Corporate and Other) [4];
- $134 million ($98 million after-tax) in restructuring charges primarily relating to employee severance (Corporate and Other);
- $109 million ($80 million after-tax) increase in the portion of the collective allowance recognized in Corporate and Other [3];
- $77 million ($56 million after-tax) increase in legal provisions (Corporate and Other);
- $53 million ($47 million after-tax) gain, net of related transaction and severance costs, on the sale of a processing centre (Corporate and Other);
- $40 million ($30 million after-tax) of loan losses in our exited European leveraged finance portfolio (Capital Markets);
- $30 million ($22 million after-tax) amortization of intangible assets ($5 million after-tax in Canadian Personal and Small Business Banking, $2 million after-tax in Canadian Commercial Banking and Wealth Management, $6 million after-tax in U.S. Commercial Banking and Wealth Management, and $9 million after-tax in Corporate and Other)[4];
- $30 million income tax recovery due to the settlement of transfer pricing-related matters (Canadian Personal and Small Business Banking);
- $15 million income tax recovery arising from a change in our expected utilization of certain tax loss carryforwards, primarily due to the sale of our minority investment in ACI (Corporate and Other); and
- $3 million ($2 million after-tax) gain from the structured credit run-off business (Capital Markets).

The above items of note increased revenue by $505 million, provision for credit losses by $149 million and non-interest expenses by $262 million, and decreased income taxes by $97 million. In aggregate, these items of note increased net income by $191 million.

(1) For additional information, see the "Non-GAAP measures" section.
(2) Transaction costs include legal and other advisory fees, as well as financing costs associated with: (i) pre-funding the cash component of the merger consideration; (ii) interest incurred on the obligation payable to dissenting shareholders; and (iii) changes in the fair value of contingent consideration on the Geneva Advisors acquisition. Integration costs are comprised of direct and incremental costs incurred as part of planning for integrating the businesses of The PrivateBank (subsequently rebranded as CIBC Bank USA) and Geneva Advisors with CIBC, including enabling cross-sell opportunities and expansion of services in the U.S. market, the upgrade and conversion of systems and processes, project management, integration-related travel, severance, consulting fees and marketing costs related to rebranding activities. Purchase accounting adjustments, included as items of note beginning in the fourth quarter of 2017, include the accretion of the acquisition date fair value discount on the acquired loans of The PrivateBank, as well as the collective allowance established for new loan originations and renewals of acquired loans.
(3) Relates to collective allowance, except for: (i) residential mortgages greater than 90 days delinquent; (ii) personal loans and scored small business loans greater than 30 days delinquent; (iii) net write-offs for the cards portfolio; and (iv) the collective allowance related to CIBC Bank USA, which are all reported in the respective SBUs.
(4) Certain information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.

Net interest income and margin

$ millions, for the year ended October 31	**2017** [1]	2016	2015
Average interest-earning assets	**$ 485,837**	$ 445,134	$ 395,616
Net interest income	**8,977**	8,366	7,915
Net interest margin on average interest-earning assets	**1.85 %**	1.88 %	2.00 %

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Net interest income was up $611 million or 7% from 2016, primarily due to volume growth across Canadian personal and commercial products, and the results of CIBC Bank USA, which included $45 million of accretion of the acquisition date fair value discount on the acquired loans, of which $31 million was included as an item of note in the fourth quarter of 2017. These factors were partially offset by lower trading income and narrower Canadian personal and commercial spreads.

Net interest margin on average interest-earning assets was down three basis points due to higher average interest-earning assets, primarily driven by growth across CIBC's businesses, partially offset by lower short-term placements in treasury. The impact of higher average interest-earning assets was partially offset by higher net interest income.

Additional information on net interest income and margin is provided in the "Supplementary annual financial information" section.

Non-interest income

$ millions, for the year ended October 31	2017	2016	2015
Underwriting and advisory fees	**$ 452**	$ 446	$ 427
Deposit and payment fees	**843**	832	830
Credit fees	**744**	638	533
Card fees	**463**	470	449
Investment management and custodial fees [1][2]	**1,034**	882	814
Mutual fund fees [2]	**1,573**	1,462	1,457
Insurance fees, net of claims	**427**	396	361
Commissions on securities transactions	**349**	342	385
Trading income (loss)	**226**	(88)	(139)
Available-for-sale (AFS) securities gains, net	**143**	73	138
Designated at fair value (FVO) gains (losses), net	**1**	17	(3)
Foreign exchange other than trading	**252**	367	92
Income from equity-accounted associates and joint ventures [1]	**101**	96	177
Other	**695**	736	420
	$ 7,303	$ 6,669	$ 5,941

(1) Custodial fees directly recognized by CIBC are included in Investment management and custodial fees, and our proportionate share of CIBC Mellon's custodial fees are included within Income from equity-accounted associates and joint ventures.
(2) Investment management fees and mutual fund fees are driven by various factors, including the amount of AUM. Investment management fees in our asset management and private wealth management businesses are generally driven by the amount of AUM, while investment management fees in our retail brokerage business are driven by a combination of the amount of AUA and, to a lesser extent, other factors unrelated to the amount of AUA (e.g. flat fees on a per account basis).

Non-interest income was up $634 million or 10% from 2016.

Credit fees were up $106 million or 17%, primarily due to higher commercial lending volumes.

Investment management and custodial fees were up $152 million or 17%, mainly due to AUM and AUA growth in our wealth management businesses.

Mutual fund fees were up $111 million or 8%, primarily due to higher AUM in our Canadian wealth management business, driven by net sales of long-term mutual funds and market appreciation.

Trading income was $226 million, compared with a trading loss of $88 million in 2016. See the "Trading activities (TEB)" section which follows for further details.

AFS securities gains, net, were up $70 million or 96%, primarily due to higher investment portfolio gains in Capital Markets, partially offset by a gain in 2016 from the structured credit run-off business, shown as an item of note.

Foreign exchange other than trading was down $115 million or 31%, as the prior year included a portion of the gain on the sale of our minority investment in ACI, shown as an item of note, partially offset by higher revenue from hedging activity.

Other was down $41 million or 6%, as the prior year included a portion of the gain related to ACI noted above, and a gain on the sale of a processing centre, both shown as items of note. The current year included a gain on the sale and lease back of certain retail properties, shown as an item of note.

Trading activities (TEB)

$ millions, for the year ended October 31	2017	2016 [1]	2015 [1]
Trading income (loss) consists of:			
Net interest income [2]	**$ 1,143**	$ 1,482	$ 1,314
Non-interest income	**226**	(88)	(139)
	$ 1,369	$ 1,394	$ 1,175
Trading income by product line:			
Interest rates	**$ 276**	$ 293	$ 164
Foreign exchange	**524**	511	471
Equities	**401**	453	414
Commodities	**111**	106	78
Other	**57**	31	48
	$ 1,369	$ 1,394	$ 1,175

(1) Certain information has been reclassified to conform to the presentation adopted in the current year.
(2) Includes taxable equivalent basis (TEB) adjustment of $298 million (2016: $474 million; 2015: $482 million) reported within Capital Markets. See "Strategic business units overview" section for further details.

Net interest income comprises interest and dividends relating to financial assets and liabilities associated with trading activities, net of interest expense and interest income associated with funding these assets and liabilities. Non-interest income includes realized and unrealized gains and losses on securities held-for-trading and income relating to changes in fair value of derivative financial instruments. Trading activities and related risk management strategies can periodically shift income between net interest income and non-interest income. Therefore, we view total trading revenue as the most appropriate measure of trading performance.

Trading income was down $25 million or 2% from 2016, primarily due to lower equity trading income, which included lower tax-exempt income in the second half of 2017, as the new rules eliminating the tax deductibility of certain dividends became fully effective (see "Taxes" section for further details), and lower interest rate trading income. The decrease was partially offset by higher trading income from U.S. real estate finance, foreign exchange, and the structured credit run-off business.

Provision for credit losses

$ millions, for the year ended October 31	**2017** (1)	2016 (2)	2015 (2)
Canadian Personal and Small Business Banking	**$ 766**	$ 736	$ 664
Canadian Commercial Banking and Wealth Management	**16**	29	5
U.S. Commercial Banking and Wealth Management	**84**	(2)	11
Capital Markets	**(4)**	155	44
Corporate and Other	**(33)**	133	47
	$ 829	$ 1,051	$ 771

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
(2) Certain information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.

Provision for credit losses was down $222 million or 21% from 2016.

In Canadian Personal and Small Business Banking, the provision was up primarily due to higher write-offs in the card and personal lending portfolios, and higher losses in the mortgage portfolio, partially offset by lower losses in the small business lending portfolio.

In Canadian Commercial Banking and Wealth Management, the provision was down primarily due to lower losses in the commercial banking portfolio.

In U.S. Commercial Banking and Wealth Management, the current year included a provision for credit losses compared with a reversal of credit losses in 2016, primarily due to the establishment of a $48 million collective allowance for new loan originations and renewals of acquired loans relating to CIBC Bank USA, of which $35 million was shown as an item of note in the fourth quarter of 2017. In addition, the current year included losses in our pre-existing U.S. real estate finance portfolio.

In Capital Markets, the current year included a reversal of credit losses compared with a provision for credit losses in 2016, primarily due to better performance in the oil and gas sector. The prior year also included losses in our exited European leveraged finance portfolio, shown as an item of note.

In Corporate and Other, the current year included a reversal of credit losses compared with a provision for credit losses in 2016. The current year included a reduction in the collective allowance, shown as an item of note, which was net of a higher provision in the Caribbean region mainly due to the recent hurricanes. The prior year included increases in the collective allowance, shown as items of note.

Non-interest expenses

$ millions, for the year ended October 31	**2017** (1)	2016	2015
Employee compensation and benefits			
Salaries	**$ 2,738**	$ 2,741	$ 2,826
Performance-based compensation	**1,745**	1,580	1,568
Benefits	**715**	661	705
	5,198	4,982	5,099
Occupancy costs	**822**	804	782
Computer, software and office equipment	**1,630**	1,398	1,292
Communications	**317**	319	326
Advertising and business development	**282**	269	281
Professional fees	**229**	201	230
Business and capital taxes	**96**	68	68
Other	**997**	930	783
	$ 9,571	$ 8,971	$ 8,861

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Non-interest expenses increased by $600 million or 7% from 2016.

Employee compensation and benefits increased by $216 million or 4%, primarily due to the inclusion of the results of CIBC Bank USA and higher performance-based compensation. The increase was partially offset by restructuring charges in 2016, primarily relating to employee severance, shown as an item of note.

Computer, software and office equipment increased by $232 million or 17%, primarily due to higher spending on strategic initiatives.

Other increased by $67 million or 7%, primarily due to fees and charges related to the launch of Simplii Financial and the related wind-down of President's Choice Financial, and transaction and integration-related costs associated with the acquisition of The PrivateBank, both shown as items of note. The increase was partially offset by lower legal provisions, shown as items of note in both years.

Taxes

$ millions, for the year ended October 31	**2017** [1]	2016	2015
Income taxes	**$ 1,162**	$ 718	$ 634
Indirect taxes [2]			
Goods and Services Tax (GST), Harmonized Sales Tax (HST) and sales taxes	**390**	361	342
Payroll taxes	**242**	239	239
Capital taxes	**61**	38	39
Property and business taxes	**72**	71	68
Total indirect taxes	**765**	709	688
Total taxes	**$ 1,927**	$ 1,427	$ 1,322
Reported effective tax rate	**19.8 %**	14.3 %	15.0 %
Total taxes as a percentage of net income before deduction of total taxes	**29.0 %**	24.9 %	26.9 %

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
(2) Certain amounts are based on a paid or payable basis and do not factor in capitalization and subsequent amortization.

Income taxes include those imposed on CIBC as a Canadian legal entity, as well as on our domestic and foreign subsidiaries. Indirect taxes comprise GST, HST and sales, payroll, capital, property and business taxes. Indirect taxes are included in non-interest expenses.

Total income and indirect taxes were up $500 million from 2016.

Income tax expense was $1,162 million, compared with $718 million in 2016, largely due to substantially lower tax-exempt income and higher income in the current year. In addition, 2016 included income tax recoveries from the settlement of transfer pricing-related matters, and a change in our expected utilization of certain tax loss carryforwards, shown as items of note.

Indirect taxes were up $56 million, mainly due to higher sales taxes, and higher capital taxes due to the acquisition of The PrivateBank.

In prior years, the Canada Revenue Agency (CRA) issued reassessments disallowing the deduction of approximately $3 billion of the 2005 Enron settlement payments and related legal expenses. The matter is currently in litigation. The Tax Court of Canada trial on the deductibility of the Enron payments is expected to commence in 2018.

Should we successfully defend our tax filing position in its entirety, we would recognize an additional accounting tax benefit of $231 million and taxable refund interest of approximately $198 million. Should we fail to defend our position in its entirety, we would incur an additional tax expense of approximately $820 million and non-deductible interest of approximately $157 million.

The 2015 Canadian federal budget, released on April 21, 2015, contained new rules for "synthetic equity arrangements" which eliminated the tax deductibility of Canadian inter-corporate dividends for Canadian corporations in certain circumstances. The rules became law effective as of November 1, 2015, with a set of transition rules that applied between November 1, 2015 and April 30, 2017. The new rules have resulted in a higher effective tax rate, as the tax deductibility of certain Canadian corporate dividends is diminished.

In June 2016, the CRA reassessed CIBC approximately $118 million of additional income tax by denying the tax deductibility of certain 2011 Canadian corporate dividends on the basis that they were part of a "dividend rental arrangement". In May 2017, the CRA reassessed CIBC additional income tax of approximately $180 million related to the tax deductibility of dividends during the 2012 taxation year. The circumstances of the dividends subject to the reassessments are similar to those prospectively addressed by the rules in the 2015 Canadian federal budget. It is possible that subsequent years may be reassessed for similar activities. CIBC is confident that its tax filing positions were appropriate and intends to defend itself vigorously. Accordingly, no amounts have been accrued in the consolidated financial statements.

The statutory income tax rate applicable to CIBC as a legal entity was 26.5% in 2017. The rate is expected to remain the same in future years.

For a reconciliation of our income taxes in the consolidated statement of income with the combined Canadian federal and provincial income tax rate, see Note 20 to the consolidated financial statements.

Foreign exchange

The estimated impact of U.S. dollar translation on key lines of our consolidated statement of income, as a result of changes in average exchange rates, is as follows:

$ millions, for the year ended October 31	**2017** [1] **vs. 2016**	2016 vs. 2015	2015 vs. 2014
Estimated increase (decrease) in:			
Total revenue	**$ (36)**	$ 117	$ 281
Provision for credit losses	**(1)**	8	7
Non-interest expenses	**(20)**	61	145
Income taxes	**(1)**	–	5
Net income	**(14)**	48	124
Impact on EPS:			
Basic	**$ (0.03)**	$ 0.12	$ 0.31
Diluted	**(0.03)**	0.12	0.31
Average USD appreciation (depreciation) relative to CAD	**(1.3) %**	5.6 %	14.7 %

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details

Significant events

Acquisition of PrivateBancorp, Inc.

On June 23, 2017, we completed the acquisition of PrivateBancorp, Inc. (PrivateBancorp) and its subsidiary, The PrivateBank and Trust Company (The PrivateBank, subsequently rebranded as CIBC Bank USA) for total consideration of US$5.0 billion (C$6.6 billion). This acquisition expands our U.S. presence which diversifies earnings and strengthens our platform for long-term growth. The acquisition also creates a platform for CIBC to deliver high-quality middle market commercial and private banking capabilities, which advances our client-focused strategy. The results of the acquired business have been consolidated from the date of close and are included in the U.S. Commercial Banking and Wealth Management SBU. For additional information, see Note 3 to our consolidated financial statements.

Acquisition of Geneva Advisors

On August 31, 2017, we completed the acquisition of Geneva Advisors, LLC (Geneva Advisors), an independent private wealth management firm with AUM of US$8.4 billion (C$10.4 billion), for total estimated consideration of US$179 million (C$224 million). This acquisition will expand CIBC's private wealth management client base and investment management capabilities in the U.S. The results of the acquired business have been consolidated from the date of close and are included in the U.S. Commercial Banking and Wealth Management SBU. For additional information, see Note 3 to our consolidated financial statements.

Launch of Simplii Financial and wind-down of President's Choice Financial consumer banking offer

On August 16, 2017, we announced both the launch of Simplii Financial and the wind-down of our President's Choice Financial branded consumer banking offer with Loblaw Companies Limited (Loblaw). Under the terms of the wind-down agreement negotiated with Loblaw, CIBC is required to pay certain fees to Loblaw. In addition, as a result of the agreement, we incurred ancillary asset impairment and severance costs, as well as ongoing project-related costs. In aggregate, CIBC incurred fees and charges of $98 million ($71 million after-tax) in the fourth quarter of 2017.

Aeroplan developments

Air Canada announced on May 11, 2017, that it will not be renewing its exclusive Aeroplan partnership with Aimia Inc. (Aimia) upon the expiry of the contract in 2020. CIBC's Aeroplan clients are not immediately impacted by this announcement, as Aeroplan members may continue to collect miles and redeem them for Air Canada travel until Aimia's contract with Air Canada expires in 2020.

Lease of new premises

On April 12, 2017, we announced that we had entered into a lease agreement to become the anchor tenant at a new office complex in downtown Toronto. We have agreed to lease up to 1.75 million square feet of total office space in two buildings to be constructed at the site within the next six years. The aggregate future minimum lease commitments related to the lease, which begins in 2020, are $2.3 billion.

Sale and lease back of certain retail properties

During the first quarter, we sold and leased back 89 retail properties located mainly in Ontario and British Columbia, and recognized a gain of $299 million ($245 million after-tax) in our Canadian Personal and Small Business Banking SBU.

Fourth quarter review

$ millions, except per share amounts, for the three months ended	2017				2016			
	Oct. 31	**Jul. 31**	**Apr. 30**	**Jan. 31**	Oct. 31	Jul. 31	Apr. 30	Jan. 31
Revenue [1]								
Canadian Personal and Small Business Banking	**$ 2,093**	**$ 2,039**	**$ 1,937**	**$ 2,303**	$ 2,005	$ 1,946	$ 1,879	$ 1,918
Canadian Commercial Banking and Wealth Management	**922**	**903**	**886**	**879**	846	830	800	796
U.S. Commercial Banking and Wealth Management [2]	**422**	**239**	**102**	**113**	106	93	83	103
Capital Markets [2]	**622**	**679**	**692**	**830**	626	772	719	639
Corporate and Other [2]	**210**	**244**	**81**	**84**	98	495	150	131
Total revenue	**$ 4,269**	**$ 4,104**	**$ 3,698**	**$ 4,209**	$ 3,681	$ 4,136	$ 3,631	$ 3,587
Net interest income	**$ 2,464**	**$ 2,276**	**$ 2,095**	**$ 2,142**	$ 2,110	$ 2,113	$ 2,037	$ 2,106
Non-interest income	**1,805**	**1,828**	**1,603**	**2,067**	1,571	2,023	1,594	1,481
Total revenue	**4,269**	**4,104**	**3,698**	**4,209**	3,681	4,136	3,631	3,587
Provision for credit losses	**229**	**209**	**179**	**212**	222	243	324	262
Non-interest expenses	**2,570**	**2,452**	**2,275**	**2,274**	2,347	2,218	2,242	2,164
Income before income taxes	**1,470**	**1,443**	**1,244**	**1,723**	1,112	1,675	1,065	1,161
Income taxes	**306**	**346**	**194**	**316**	181	234	124	179
Net income	**$ 1,164**	**$ 1,097**	**$ 1,050**	**$ 1,407**	$ 931	$ 1,441	$ 941	$ 982
Net income attributable to:								
Non-controlling interests	**$ 5**	**$ 4**	**$ 5**	**$ 5**	$ 4	$ 6	$ 5	$ 5
Equity shareholders	**1,159**	**1,093**	**1,045**	**1,402**	927	1,435	936	977
EPS – basic	**$ 2.60**	**$ 2.61**	**$ 2.59**	**$ 3.50**	$ 2.32	$ 3.61	$ 2.35	$ 2.44
EPS – diluted	**$ 2.59**	**$ 2.60**	**$ 2.59**	**$ 3.50**	$ 2.32	$ 3.61	$ 2.35	$ 2.43

(1) Certain information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.
(2) Capital Markets and U.S. Commercial Banking and Wealth Management revenue and income taxes are reported on a TEB basis with an equivalent offset in the revenue and income taxes of Corporate and Other.

Compared with Q4/16

Net income for the quarter was $1,164 million, up $233 million or 25% from the fourth quarter of 2016.

Net interest income was up $354 million or 17%, primarily due to the inclusion of the results of CIBC Bank USA, which included $31 million of accretion of the acquisition date fair value discount on the acquired loans, included as an item of note, and volume growth across Canadian personal and commercial products, partially offset by lower trading income.

Non-interest income was up $234 million or 15%, primarily due to trading income compared with trading losses in the same quarter last year, higher investment management and custodial fees driven by higher average AUM and AUA, and higher credit fees and investment portfolio gains.

Provision for credit losses was up $7 million or 3% from the same quarter last year. In Canadian Personal and Small Business Banking, the provision was down due to lower bankruptcies and write-offs in the card portfolio, and lower losses in the small business banking portfolio. In Canadian Commercial Banking and Wealth Management, the provision was down primarily due to lower losses in the commercial banking portfolio. In U.S. Commercial Banking and Wealth Management, the provision was up primarily due to the inclusion of the results of CIBC Bank USA, including the establishment of a $35 million collective allowance for new loan originations and renewals of acquired loans, shown as an item of note. In Capital Markets, the provision was comparable with the same quarter last year. In Corporate and Other, the current quarter included a reversal of credit losses compared with a provision for credit losses in the same quarter last year, primarily due to a reduction in the collective allowance in the current quarter, shown as an item of note, which was net of a higher provision in the Caribbean region mainly due to the recent hurricanes.

Non-interest expenses were up $223 million or 10%, primarily due to the inclusion of the results of CIBC Bank USA. In addition, the current quarter included higher spending on strategic initiatives including fees and charges related to the launch of Simplii Financial and the related wind-down of President's Choice Financial, as well as transaction and integration-related costs associated with the acquisition of The PrivateBank, both shown as items of note. The increase was partially offset by restructuring charges in the same quarter last year, primarily relating to employee severance, shown as an item of note.

Income tax expense was up $125 million or 69%, primarily due to substantially lower tax-exempt income and higher income.

Compared with Q3/17

Net income for the quarter was up $67 million or 6% from the prior quarter.

Net interest income was up $188 million or 8%, primarily due to a full quarter of net interest income from CIBC Bank USA, and volume growth and wider spreads in Canadian Personal and Small Business Banking.

Non-interest income was down $23 million or 1%, primarily due to lower trading income, partially offset by higher investment management and custodial fees driven by higher average AUM and AUA.

Provision for credit losses was up $20 million or 10% from the prior quarter. In Canadian Personal and Small Business Banking, the provision was down mainly due to lower bankruptcies and write-offs in the card and personal lending portfolios. In Canadian Commercial Banking and Wealth Management, the current quarter included a provision for credit losses compared with a reversal of credit losses in the prior quarter, mainly due to higher losses and lower reversals in the commercial banking portfolio. In U.S. Commercial Banking and Wealth Management, the provision was up primarily due to a higher collective allowance established for new loan originations and renewals of acquired loans, and new impairments in CIBC Bank USA, partially offset by lower losses in our pre-existing U.S. real estate finance portfolio. In Capital Markets, the provision was comparable with the prior quarter. In Corporate and Other, the provision was comparable with the prior quarter, as a higher reduction in the collective allowance was offset by higher losses in CIBC FirstCaribbean.

Non-interest expenses were up $118 million or 5%, primarily due to higher spending on strategic initiatives, including the fees and charges related to the launch of Simplii Financial noted above, and a full quarter of non-interest expenses from CIBC Bank USA. The increase was partially offset by legal provisions in the prior quarter, shown as an item of note.

Income tax expense was down $40 million or 12%, primarily due to higher tax-exempt income and the impact of changes in the proportion of income subject to varying rates of tax in different jurisdictions.

Quarterly trend analysis

Our quarterly results are modestly affected by seasonal factors. The second quarter has fewer days as compared with the other quarters, generally leading to lower earnings. The summer months (July – third quarter and August – fourth quarter) typically experience lower levels of market activity, which affects our brokerage, investment management, and Capital Markets activities.

Revenue

Canadian Personal and Small Business Banking revenue has benefited from volume growth, partially offset by the continued low interest rate environment, and attrition in our exited FirstLine mortgage broker business. The first quarter of 2017 included a gain on the sale and lease back of certain retail properties.

Canadian Commercial Banking and Wealth Management has benefited from strong volume growth in deposits and loans, and continued growth in AUA and AUM as a result of market appreciation and positive net sales of long-term mutual funds. This was partially offset by a sustained low interest rate environment.

U.S. Commercial Banking and Wealth Management includes the revenue of CIBC Bank USA after the close of the acquisition on June 23, 2017.

Capital Markets revenue is influenced, to a large extent, by market conditions and activity in the equity derivatives business, which includes tax-exempt income. Tax-exempt income is substantially lower in the second half of 2017 versus prior quarters. The first quarter of 2017 included higher trading revenue, while the third quarter of 2016 included a gain from the structured credit run-off business.

Corporate and Other includes the offset related to the TEB component of tax-exempt income reported in the revenue of Capital Markets and U.S. Commercial Banking and Wealth Management. We recognized a gain, net of related transaction costs, on the sale of our minority investment in ACI in the third quarter of 2016. The second quarter of 2016 included a gain on sale of a processing centre. We ceased recognition of income from equity-accounted associates relating to ACI following the announcement of the sale in the first quarter of 2016.

Provision for credit losses

Provision for credit losses is dependent upon the credit cycle in general and on the credit performance of the loan portfolios. In Canadian Personal and Small Business Banking, losses in the card and personal lending portfolios trended higher after the first quarter of 2016. In Canadian Commercial Banking and Wealth Management, the fourth quarters of 2017 and 2016 included higher losses in the commercial banking portfolio. In U.S. Commercial Banking and Wealth Management, the second half of 2017 included the results of CIBC Bank USA after the close of the acquisition on June 23, 2017. The third quarter of 2017 included losses in our pre-existing U.S. real estate finance portfolio. In Capital Markets, losses in the oil and gas sector were elevated in the first half of 2016; however performance in this sector has improved since the fourth quarter of 2016. The third quarter of 2016 had higher losses in our exited European leveraged finance portfolio. In Corporate and Other, the final three quarters of 2017 included reductions in the collective allowance. The first two quarters of 2016 included increases in the collective allowance.

Non-interest expenses

Non-interest expenses have fluctuated over the period largely due to changes in employee-related compensation and benefits, higher spending on strategic initiatives, and movement in foreign exchange rates. The fourth quarter of 2017 included fees and charges related to the launch of Simplii Financial and the related wind-down of President's Choice Financial. Non-interest expenses increased in the second half of 2017, as the results of CIBC Bank USA were included after the close of the acquisition on June 23, 2017. The third quarter of 2017 and second quarter of 2016 included legal provisions in Corporate and Other, shown as items of note. The fourth quarter of 2016 included restructuring charges primarily relating to employee severance.

Income taxes

Income taxes vary with changes in income subject to tax, and the jurisdictions in which the income is earned. Taxes can also be affected by the impact of significant items and the level of tax-exempt income. Income taxes increased in the second half 2017, primarily due to substantially lower tax-exempt income and the inclusion of the results of CIBC Bank USA following the close of the acquisition on June 23, 2017. The second quarter of 2016 included an income tax recovery due to the settlement of transfer pricing-related matters. The first quarter of 2016 included an income tax recovery arising from a change in our expected utilization of certain tax loss carryforwards.

Review of 2016 financial performance

$ millions, for the year ended October 31		Canadian Personal and Small Business Banking	Canadian Commercial Banking and Wealth Management	U.S. Commercial Banking and Wealth Management [1]	Capital Markets [1]	Corporate and Other [1]	CIBC Total
2016 [2]	Net interest income	$ 5,473	$ 930	$ 169	$ 1,958	$ (164)	$ 8,366
	Non-interest income	1,896	2,732	216	787	1,038	6,669
	Intersegment revenue [3]	379	(390)	–	11	–	–
	Total revenue	7,748	3,272	385	2,756	874	15,035
	Provision for (reversal of) credit losses	736	29	(2)	155	133	1,051
	Non-interest expenses	4,114	1,890	288	1,328	1,351	8,971
	Income (loss) before income taxes	2,898	1,353	99	1,273	(610)	5,013
	Income taxes	738	362	12	281	(675)	718
	Net income	$ 2,160	$ 991	$ 87	$ 992	$ 65	$ 4,295
	Net income attributable to:						
	Non-controlling interests	$ –	$ –	$ –	$ –	$ 20	$ 20
	Equity shareholders	2,160	991	87	992	45	4,275
2015 [2]	Net interest income	$ 5,160	$ 893	$ 178	$ 1,691	$ (7)	$ 7,915
	Non-interest income	1,867	2,619	261	703	491	5,941
	Intersegment revenue [3]	353	(363)	–	10	–	–
	Total revenue	7,380	3,149	439	2,404	484	13,856
	Provision for credit losses	664	5	11	44	47	771
	Non-interest expenses	3,975	1,889	294	1,264	1,439	8,861
	Income (loss) before income taxes	2,741	1,255	134	1,096	(1,002)	4,224
	Income taxes	715	334	30	249	(694)	634
	Net income (loss)	$ 2,026	$ 921	$ 104	$ 847	$ (308)	$ 3,590
	Net income (loss) attributable to:						
	Non-controlling interests	$ –	$ –	$ –	$ –	$ 14	$ 14
	Equity shareholders	2,026	921	104	847	(322)	3,576

(1) Capital Markets and U.S. Commercial Banking and Wealth Management revenue and income taxes are reported on a TEB basis with an equivalent offset in the revenue and income taxes of Corporate and Other.
(2) Certain information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.
(3) Intersegment revenue represents internal sales commissions and revenue allocations under the Manufacturer/Customer Segment/Distributor Management Model.

The following discussion provides a comparison of our results of operations for the years ended October 31, 2016 and 2015.

Overview

Net income for 2016 was $4,295 million, compared with $3,590 million in 2015. The increase in net income of $705 million was due to higher revenue, partially offset by a higher provision for credit losses and higher non-interest expenses.

Revenue by segment

Canadian Personal and Small Business Banking

Revenue was up $368 million or 5% from 2015, primarily due to volume growth and higher fees, partially offset by lower revenue from our exited FirstLine mortgage broker business. 2015 included a gain arising from accounting adjustments on credit card-related balance sheet amounts, shown as an item of note.

Canadian Commercial Banking and Wealth Management

Revenue was up $123 million or 4% from 2015. Commercial banking was up due to volume growth and higher fees, partially offset by narrower spreads. Wealth management was up due to higher average AUM, driven by net sales of long-term mutual funds and market appreciation.

U.S. Commercial Banking and Wealth Management

Revenue was down $54 million or 12% from 2015. Commercial banking was down due to lower revenue from U.S. real estate finance. Wealth management was down due to lower annual performance fees earned by CIBC Atlantic Trust.

Capital Markets

Revenue was up $352 million or 15% from 2015, primarily due to higher interest rate and foreign exchange trading revenue, higher revenue from global markets financing activity, and a gain on the sale of an AFS equity investment in our structured credit run-off business.

Corporate and Other

Revenue was up $390 million or 81% from 2015, primarily due to the gain, net of transaction costs, on the sale of our minority investment in ACI, and a gain on sale of a processing centre, both shown as items of note, partially offset by lower treasury revenue.

Consolidated CIBC

Net interest income

Net interest income was up $451 million or 6% from 2015, primarily due to volume growth across retail products, higher trading income, and higher corporate banking revenue. These factors were partially offset by lower treasury revenue, a gain arising from accounting adjustments on credit card-related balance sheet amounts in 2015, shown as an item of note, and lower revenue from our exited FirstLine mortgage broker business.

Non-interest income
Non-interest income was up $728 million or 12% from 2015, primarily due to the gain, net of transaction costs, on the sale of our minority investment in ACI, and a gain on the sale of a processing centre, both shown as items of note. 2016 also included higher credit fees, and AUM and AUA growth in our retail brokerage and CIBC Atlantic Trust businesses.

Provision for credit losses
Provision for credit losses was up $280 million or 36% from 2015. In Canadian Personal and Small Business Banking, the provision was up primarily due to higher write-offs and bankruptcies in the card and the personal lending portfolios. In Canadian Commercial Banking and Wealth Management, the provision was up due to higher losses in the commercial banking portfolio. In U.S. Commercial Banking and Wealth Management, a reversal of credit losses compared with a provision for credit losses in 2015 due to lower losses in our U.S. real estate finance portfolio. In Capital Markets, the provision was up primarily due to higher losses in the oil and gas sector and losses in our exited European leveraged finance portfolio, shown as an item of note. In Corporate and Other, the provision was up due to increases in the collective allowance, shown as items of note, partially offset by lower losses in CIBC FirstCaribbean.

Non-interest expenses
Non-interest expenses increased by $110 million or 1% from 2015, primarily due to legal provisions, shown as an item of note, and higher spending on strategic initiatives. Both years included restructuring charges primarily relating to employee severance, shown as items of note.

Income taxes
Income tax expense was $718 million, compared with $634 million in 2015, primarily due to higher income in 2016. This was partially offset by income tax recoveries from the settlement of transfer pricing-related matters, and a change in our expected utilization of certain tax loss carryforwards, primarily due to the sale of our minority investment in ACI, both shown as items of note.

Outlook for calendar year 2018

Canada's economy is likely to moderate with real gross domestic product expected to grow at a still healthy rate of roughly 2% in 2018, as it begins to feel the constraints on labour supply after reaching full employment in some provinces. The Bank of Canada could raise interest rates by a further 50 basis points over the course of the year as it seeks to contain subsequent inflation pressures. In response to higher rates and tightening mortgage regulations, housing could become a weaker source of growth. Capital spending by business could remain on a cautious path owing to uncertainties tied to NAFTA talks, while consumer spending should see a moderation in growth after a very strong run.

The U.S. has room to grow at just over 2% without inflationary concerns, with ongoing job creation and a modest pick-up in wage gains supporting a consumer-led expansion. Although core inflation is expected to start the year below the central bank's target, a very gradual increase over the course of the year should justify modest additional interest rate increases from the U.S. Federal Reserve. Should a deficit-financed tax cut bill gain approval, it would add to economic momentum, but could also lead to some additional monetary tightening.

Canadian Personal and Small Business Banking should see a moderation in consumer and mortgage lending growth reflecting interest rate increases and regulatory measures.

Growth in corporate profits should support equity-related business in Capital Markets and Canadian Commercial Banking and Wealth Management, while financing infrastructure spending should offset lower government deficits as a driver of fixed income activity. Growth in corporate bond issuance is likely to moderate after a sharp acceleration in 2017. Credit quality should remain healthy given low unemployment and stable energy prices. Business loan demand is expected to grow at a steady pace, having moderated in 2017 as companies extended term in the bond market.

In U.S. Commercial Banking and Wealth Management, commercial banking activity should benefit from the impact of further rate increases on margins, and from the financing needs associated with steady economic growth and healthy business credit quality. Wealth management could benefit as potential U.S. tax reforms and economic growth provide a greater high-net-worth savings pool. Although interest rates are moving higher, they remain low by historical standards, and should support growth in U.S. real estate finance.

Non-GAAP measures

We use a number of financial measures to assess the performance of our business lines as described below. Some measures are calculated in accordance with GAAP (IFRS), while other measures do not have a standardized meaning under GAAP, and accordingly, these measures may not be comparable to similar measures used by other companies. Investors may find these non-GAAP measures useful in analyzing financial performance.

Adjusted measures

Management assesses results on a reported and adjusted basis and considers both as useful measures of performance. Adjusted results remove items of note from reported results and are used to calculate our adjusted measures noted below. Items of note include the amortization of intangibles, and certain items of significance that arise from time to time which management believes are not reflective of underlying business performance. We believe that adjusted measures provide the reader with a better understanding of how management assesses underlying business performance and facilitate a more informed analysis of trends. While we believe that adjusted measures may facilitate comparisons between our results and those of some of our Canadian peer banks which make similar adjustments in their public disclosure, it should be noted that there is no standardized meaning for adjusted measures under GAAP.

We also adjust our results to gross up tax-exempt revenue on certain securities to a TEB basis, being the amount of fully taxable revenue, which, were it to have incurred tax at the statutory income tax rate, would yield the same after-tax revenue.

Adjusted diluted EPS
We adjust our reported diluted EPS to remove the impact of items of note, net of income taxes, to calculate the adjusted EPS.

Adjusted efficiency ratio
We adjust our reported revenue and non-interest expenses to remove the impact of items of note and gross up tax-exempt revenue to bring it to a TEB basis, as applicable.

Adjusted dividend payout ratio
We adjust our reported net income attributable to common shareholders to remove the impact of items of note, net of income taxes, to calculate the adjusted dividend payout ratio.

Adjusted return on common shareholders' equity
We adjust our reported net income attributable to common shareholders to remove the impact of items of note, net of income taxes, to calculate the adjusted ROE.

Adjusted effective tax rate
We adjust our reported income before income taxes and reported income taxes to remove the impact of items of note to calculate the adjusted effective tax rate.

Economic capital

Economic capital provides a framework to evaluate the returns of each SBU, commensurate with risk assumed. The economic capital measure is based upon an estimate of equity capital required by the businesses to absorb unexpected losses consistent with our targeted risk rating over a one-year horizon. Economic capital comprises primarily credit, market, operational and strategic risk capital. The difference between our total equity capital and economic capital is held in Corporate and Other. There is no comparable GAAP measure for economic capital.

Economic profit

Net income attributable to equity shareholders, adjusted for a charge on economic capital, determines economic profit. This measures the return generated by each SBU in excess of our cost of capital, thus enabling users of our financial information to identify relative contributions to shareholder value. Reconciliation of net income attributable to equity shareholders to economic profit is provided with segmented information.

Segmented return on equity

We use ROE on a segmented basis as one of the measures for performance evaluation and resource allocation decisions. While ROE for total CIBC provides a measure of return on common equity, ROE on a segmented basis provides a similar metric relating to the economic capital allocated to the segments. As a result, segmented ROE is a non-GAAP measure.

The following table provides a reconciliation of non-GAAP to GAAP measures related to CIBC on a consolidated basis.

$ millions, for the year ended October 31		**2017** [1]	2016	2015	2014	2013
Reported and adjusted diluted EPS						
Reported net income attributable to common shareholders	A	**$ 4,647**	$ 4,237	$ 3,531	$ 3,131	$ 3,253
After-tax impact of items of note [2]		**(53)**	(191)	232	442	219
After-tax impact of items of note on non-controlling interests		**–**	–	(2)	(10)	–
Adjusted net income attributable to common shareholders [3]	B	**$ 4,594**	$ 4,046	$ 3,761	$ 3,563	$ 3,472
Diluted weighted-average common shares outstanding (thousands)	C	**413,563**	395,919	397,832	398,420	401,261
Reported diluted EPS ($)	A/C	**$ 11.24**	$ 10.70	$ 8.87	$ 7.86	$ 8.11
Adjusted diluted EPS ($) [3]	B/C	**11.11**	10.22	9.45	8.94	8.65
Reported and adjusted efficiency ratio						
Reported total revenue	D	**$ 16,280**	$ 15,035	$ 13,856	$ 13,363	$ 12,705
Pre-tax impact of items of note [2]		**(305)**	(505)	(40)	(276)	(30)
TEB		**300**	474	482	421	357
Adjusted total revenue [3]	E	**$ 16,275**	$ 15,004	$ 14,298	$ 13,508	$ 13,032
Reported non-interest expenses	F	**$ 9,571**	$ 8,971	$ 8,861	$ 8,512	$ 7,608
Pre-tax impact of items of note [2]		**(259)**	(262)	(338)	(539)	(249)
Adjusted non-interest expenses [3]	G	**$ 9,312**	$ 8,709	$ 8,523	$ 7,973	$ 7,359
Reported efficiency ratio	F/D	**58.8 %**	59.7 %	63.9 %	63.7 %	59.9 %
Adjusted efficiency ratio [3]	G/E	**57.2 %**	58.0 %	59.6 %	59.0 %	56.5 %
Reported and adjusted dividend payout ratio						
Dividends paid to common shareholders	H	**$ 2,121**	$ 1,879	$ 1,708	$ 1,567	$ 1,523
Reported dividend payout ratio	H/A	**45.6 %**	44.3 %	48.4 %	50.0 %	46.8 %
Adjusted dividend payout ratio [3]	H/B	**46.2 %**	46.4 %	45.4 %	44.0 %	43.9 %
Reported and adjusted return on common shareholders' equity						
Average common shareholders' equity	I	**$ 25,393**	$ 21,275	$ 18,857	$ 17,067	$ 15,167
Reported return on common shareholders' equity	A/I	**18.3 %**	19.9 %	18.7 %	18.3 %	21.4 %
Adjusted return on common shareholders' equity [3]	B/I	**18.1 %**	19.0 %	19.9 %	20.9 %	22.9 %
Reported and adjusted effective tax rate						
Reported income before income taxes	J	**$ 5,880**	$ 5,013	$ 4,224	$ 3,914	$ 3,976
Pre-tax impact of items of note [2]		**(29)**	(94)	298	408	298
Adjusted income before income taxes [3]	K	**$ 5,851**	$ 4,919	$ 4,522	$ 4,322	$ 4,274
Reported income taxes	L	**$ 1,162**	$ 718	$ 634	$ 699	$ 626
Tax impact of items of note [2]		**24**	97	66	(34)	79
Adjusted income taxes [3]	M	**$ 1,186**	$ 815	$ 700	$ 665	$ 705
Reported effective tax rate	L/J	**19.8 %**	14.3 %	15.0 %	17.9 %	15.8 %
Adjusted effective tax rate [3]	M/K	**20.3 %**	16.6 %	15.5 %	15.4 %	16.5 %

$ millions, for the year ended October 31		Canadian Personal and Small Business Banking	Canadian Commercial Banking and Wealth Management	U.S. Commercial Banking and Wealth Management [1]	Capital Markets	Corporate and Other	CIBC Total
2017	**Reported net income (loss)**	**$ 2,420**	**$ 1,138**	**$ 203**	**$ 1,090**	**$ (133)**	**$ 4,718**
	After-tax impact of items of note [2]	**(170)**	**1**	**19**	**–**	**97**	**(53)**
	Adjusted net income (loss) [3]	**$ 2,250**	**$ 1,139**	**$ 222**	**$ 1,090**	**$ (36)**	**$ 4,665**
2016 [4]	Reported net income (loss)	$ 2,160	$ 991	$ 87	$ 992	$ 65	$ 4,295
	After-tax impact of items of note [2]	(25)	2	6	28	(202)	(191)
	Adjusted net income (loss) [3]	$ 2,135	$ 993	$ 93	$ 1,020	$ (137)	$ 4,104
2015 [4]	Reported net income (loss)	$ 2,026	$ 921	$ 104	$ 847	$ (308)	$ 3,590
	After-tax impact of items of note [2]	(28)	2	7	8	243	232
	Adjusted net income (loss) [3]	$ 1,998	$ 923	$ 111	$ 855	$ (65)	$ 3,822
2014	Reported net income (loss)	$ 2,459	$ 470	n/a	$ 869	$ (583)	$ 3,215
	After-tax impact of items of note [2]	(64)	15	n/a	18	473	442
	Adjusted net income (loss) [3]	$ 2,395	$ 485	n/a	$ 887	$ (110)	$ 3,657
2013	Reported net income (loss)	$ 2,377	$ 385	n/a	$ 699	$ (111)	$ 3,350
	After-tax impact of items of note [2]	38	4	n/a	118	59	219
	Adjusted net income (loss) [3]	$ 2,415	$ 389	n/a	$ 817	$ (52)	$ 3,569

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. The results of CIBC Bank USA are included in the U.S. Commercial Banking and Wealth Management SBU. See "Significant events" for additional details.
(2) Reflects impact of items of note under "2017 Financial results" section and below.
(3) Non-GAAP measure.
(4) Certain information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.
n/a Not available.

Impact of items of note in prior years

2015

Net income was affected by the following items of note:

- $296 million ($225 million after-tax) in cumulative restructuring charges primarily relating to employee severance (Corporate and Other);
- $46 million ($34 million after-tax) gain arising from accounting adjustments on credit card-related balance sheet amounts (Canadian Personal and Small Business Banking);
- $42 million ($33 million after-tax) amortization of intangible assets ($6 million after-tax in Canadian Personal and Small Business Banking, $2 million after-tax in Canadian Commercial Banking and Wealth Management, $7 million after-tax in U.S. Commercial Banking and Wealth Management, and $18 million after-tax in Corporate and Other)(1);
- $29 million ($21 million after-tax) loss from the structured credit run-off business (Capital Markets); and
- $23 million ($13 million after-tax) gain on sale of an investment in our merchant banking portfolio (Capital Markets).

The above items of note increased revenue by $40 million and non-interest expenses by $338 million, and decreased income taxes by $66 million. In aggregate, these items of note decreased net income by $232 million.

2014

Net income was affected by the following items of note:

- $543 million ($543 million after-tax) of charges relating to CIBC FirstCaribbean, comprising a goodwill impairment charge of $420 million ($420 million after-tax) and loan losses of $123 million ($123 million after-tax), reflecting revised expectations on the extent and timing of the anticipated economic recovery in the Caribbean region (Corporate and Other);
- $190 million ($147 million after-tax) gain in respect of the Aeroplan transactions with Aimia and TD, net of costs relating to the development of our enhanced travel rewards program ($87 million after-tax in Canadian Personal and Small Business Banking, and $60 million after-tax in Corporate and Other);
- $112 million ($82 million after-tax) charge relating to the incorporation of FVA into the valuation of our uncollateralized derivatives (Capital Markets);
- $78 million ($57 million after-tax) gain, net of associated expenses, on the sale of an equity investment in our exited European leveraged finance portfolio (Capital Markets);
- $52 million ($30 million after-tax) gain within an equity-accounted investment in our merchant banking portfolio (Capital Markets);
- $36 million ($28 million after-tax) amortization of intangible assets ($4 million after-tax in Canadian Personal and Small Business Banking, $15 million after-tax in Canadian Commercial Banking and Wealth Management, and $9 million after-tax in Corporate and Other);
- $26 million ($19 million after-tax) reduction in the portion of the collective allowance recognized in Corporate and Other (2), including lower estimated credit losses relating to the Alberta floods (Corporate and Other);
- $26 million ($19 million after-tax) charge resulting from operational changes in the processing of write-offs in Canadian Personal and Small Business Banking;
- $22 million ($12 million after-tax) loan losses in our exited U.S. leveraged finance portfolio (Capital Markets); and
- $15 million ($11 million after-tax) loss from the structured credit run-off business (Capital Markets).

The above items of note increased revenue by $276 million, provision for credit losses by $145 million, non-interest expenses by $539 million, and income taxes by $34 million. In aggregate, these items of note decreased net income by $442 million.

2013

Net income was affected by the following items of note:

- $114 million ($84 million after-tax) loss from the structured credit run-off business, including the charge in respect of a settlement of the U.S. Bankruptcy Court adversary proceeding brought by the Estate of Lehman Brothers Holdings, Inc. (Capital Markets);
- $39 million ($37 million after-tax) restructuring charge relating to CIBC FirstCaribbean (Corporate and Other);
- $38 million ($28 million after-tax) increase in the portion of the collective allowance recognized in Corporate and Other (2), including $56 million of estimated credit losses relating to the Alberta floods;
- $35 million ($19 million after-tax) impairment of an equity position associated with our exited U.S. leveraged finance portfolio (Capital Markets);
- $24 million ($18 million after-tax) costs relating to the development of our enhanced travel rewards program and to the Aeroplan transactions with Aimia and TD (Canadian Personal and Small Business Banking);
- $23 million ($19 million after-tax) amortization of intangible assets (3) ($5 million after-tax in Canadian Personal and Small Business Banking, $4 million after-tax in Canadian Commercial Banking and Wealth Management, and $10 million after-tax in Corporate and Other);
- $21 million ($15 million after-tax) loan losses in our exited European leveraged finance portfolio (Capital Markets);
- $20 million ($15 million after-tax) charge resulting from a revision of estimated loss parameters on our unsecured lending portfolios (Canadian Personal and Small Business Banking); and
- $16 million ($16 million after-tax) gain, net of associated expenses, on the sale of our Hong Kong and Singapore-based private wealth management business (Corporate and Other).

The above items of note increased revenue by $30 million, provision for credit losses by $79 million and non-interest expenses by $249 million, and decreased income taxes by $79 million. In aggregate, these items of note decreased net income by $219 million.

(1) Certain information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.
(2) Relates to collective allowance, except for: (i) residential mortgages greater than 90 days delinquent; (ii) personal loans and scored small business loans greater than 30 days delinquent; and (iii) net write-offs for the cards portfolio, which are all reported in the respective SBUs.
(3) Beginning in the fourth quarter of 2013, also includes amortization of intangible assets for equity-accounted associates.

Strategic business units overview

CIBC has four SBUs – Canadian Personal and Small Business Banking, Canadian Commercial Banking and Wealth Management, U.S. Commercial Banking and Wealth Management, and Capital Markets. These SBUs are supported by the following functional groups – Administration, Client Connectivity and Innovation, Finance, Human Resources and Communications, Internal Audit, Risk Management, and Technology and Operations, as well as other support groups, which all form part of Corporate and Other. The expenses of these functional and support groups are generally allocated to the business lines within the SBUs. The functional and support costs of CIBC Bank USA are recognized directly in the expenses of U.S. Commercial Banking and Wealth Management. Corporate and Other also includes the results of CIBC FirstCaribbean and other strategic investments, as well as other income statement and balance sheet items not directly attributable to the business lines.

External reporting changes were made in 2017, affecting the results of our SBUs. See "External reporting changes" for additional details.

Business unit allocations

Treasury activities impact the reported financial results of the SBUs. Each line of business within our SBUs is charged or credited with a market-based cost of funds on assets and liabilities, respectively, which impacts the revenue performance of the SBUs. Once the interest and liquidity risk inherent in our client-driven assets and liabilities is transfer priced into Treasury, it is managed within CIBC's risk framework and limits. The residual financial results associated with Treasury activities are reported in Corporate and Other, with the exception of certain Treasury activities in U.S. Commercial Banking and Wealth Management, which are reported in that SBU. Capital is attributed to the SBUs in a manner that is intended to consistently measure and align economic costs with the underlying benefits and risks associated with SBU activities. Earnings on unattributed capital remain in Corporate and Other. We review our transfer pricing methodologies on an ongoing basis to ensure they reflect changing market environments and industry practices.

Revenue, expenses, and other balance sheet resources related to certain activities are fully allocated to the lines of business within the SBUs.

To measure and report the results of operations of the lines of business within our Canadian Personal and Small Business Banking and Canadian Commercial Banking and Wealth Management SBUs, we use a Manufacturer/Customer Segment/Distributor Management Model. The model uses certain estimates and allocation methodologies to process internal payments between lines of business for sales, renewals and trailer commissions to facilitate preparation of segmented financial information. Periodically, the sales, renewals and trailer commission rates paid to customer segments for certain products/services are revised and applied prospectively.

Non-interest expenses are attributed to the SBUs to which they relate based on appropriate criteria.

The individual allowances and related provisions are reported in the respective SBUs. The collective allowances and related provisions are reported in Corporate and Other except for: (i) residential mortgages greater than 90 days delinquent; (ii) personal loans and scored small business loans greater than 30 days delinquent; and (iii) net write-offs for the card portfolio, which are all reported in the respective SBUs. All allowances and related provisions for CIBC FirstCaribbean are reported in Corporate and Other. All allowances and related provisions for CIBC Bank USA are reported in U.S. Commercial Banking and Wealth Management.

Revenue, taxable equivalent basis

The SBUs evaluate revenue on a TEB basis. In order to arrive at the TEB amount, the SBUs gross up tax-exempt revenue on certain securities to a TEB basis, being the amount of fully taxable revenue, which, were it to have incurred tax at the statutory income tax rate, would yield the same after-tax revenue. Simultaneously, an equivalent amount is booked as an income tax expense resulting in no impact on the net income of the SBUs. This measure enables comparability of revenue arising from both taxable and tax-exempt sources. The total TEB adjustments of the SBUs are offset in revenue and income tax expense in Corporate and Other.

Canadian Personal and Small Business Banking

Canadian Personal and Small Business Banking provides personal and small business clients across Canada with financial advice, products and services through a team of advisors in our banking centres, as well as through our direct, mobile and remote channels.

Our business strategy

In 2017 we focused on building a strong, innovative, relationship-oriented bank. To accelerate our transformation and deliver on our objective to be the best retail and small business bank in Canada, we maintained two strategic priorities:

- Enhancing the client experience by making it easier for our clients to bank when, where, and how they want.
- Profitable revenue growth achieved by helping our clients through deeper relationships and advice.

2017 progress

In 2017, we made good progress on our strategy.

Enhancing the client experience

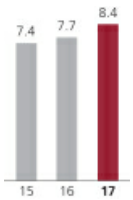
- Completed our 100th banking centre transformation in the third quarter. These transformed centres increase our focus on advice and client conversations, while adding iPads, Wi-Fi, and enhanced ATMs to help clients leverage digital channels for routine transactions.
- Earned the top score among the five largest Canadian banks for mobile banking for the fourth year in a row, and online banking functionality for the third consecutive year in Forrester Research's Mobile Banking and Online Banking benchmark studies.
- Announced Simplii Financial, our new direct banking brand, to meet the needs of Canadians who value straightforward, no-fee daily banking.
- We were the first Canadian financial institution to offer all three leading mobile wallets to our clients.
- We were the first major Canadian bank to introduce free mobile credit scores for clients.

Accelerating profitable revenue growth

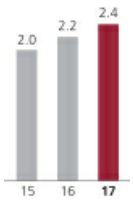
- Continued to invest in advice roles within our banking centres, while leveraging digital channels to facilitate more day-to-day banking transactions from clients across our network.
- We expanded the Mobile Investment Consultant channel from 50 to nearly 300 team members, delivering personal advice to clients at a time and place of their choosing.
- Launched Digital Cart, allowing clients to sign up for multiple banking products entirely through their mobile devices or online – a first in the mobile space in Canada.
- Launched the Business Plus Credit Cards, offering CIBC branded business credit cards that are underwritten based on business credit rather than personal credit.

2017 financial review

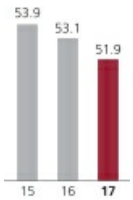
Revenue[1] ($ billions)



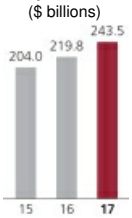
Net income[1] ($ billions)



Efficiency ratio[1] (%)



Average loans and acceptances[1][2] ($ billions)



Average deposits[1] ($ billions)

(1) Certain prior period information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.
(2) Total average loans and acceptances includes FirstLine mortgages.

Our focus for 2018

Entering a new fiscal year, we are refreshing our strategy to build on our momentum with clients and sharpen our focus on meeting client needs in key growth markets. Our priorities in 2018 are to:

- Make it easy to bank with us.
- Win the relationship, emphasizing financial planning and advice to earn primary banking relationships particularly among affluent clients and business owners.
- Deliver market leading solutions through a product lineup that meets our clients' needs.

Results[1]

$ millions, for the year ended October 31	2017	2016 [2]	2015 [2]
Revenue			
Personal and small business banking	**$ 8,033**	$ 7,675	$ 7,286
Other	**339**	73	94
Total revenue	**8,372**	7,748	7,380
Provision for credit losses	**766**	736	664
Non-interest expenses	**4,348**	4,114	3,975
Income before income taxes	**3,258**	2,898	2,741
Income taxes	**838**	738	715
Net income	**$ 2,420**	$ 2,160	$ 2,026
Net income attributable to:			
Equity shareholders (a)	**$ 2,420**	$ 2,160	$ 2,026
Efficiency ratio	**51.9 %**	53.1 %	53.9 %
Return on equity [3]	**64.3 %**	58.7 %	63.2 %
Charge for economic capital [3] (b)	**$ (367)**	$ (359)	$ (385)
Economic profit [3] (a+b)	**$ 2,053**	$ 1,801	$ 1,641
Average assets ($ billions)	**$ 246.3**	$ 222.6	$ 206.4
Average loans and acceptances ($ billions)	**$ 243.5**	$ 219.8	$ 204.0
Average deposits ($ billions)	**$ 162.9**	$ 152.5	$ 141.9
Full-time equivalent employees	**14,709**	15,501	16,582

(1) For additional segmented information, see Note 28 to the consolidated financial statements.
(2) Certain information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.
(3) For additional information, see the "Non-GAAP measures" section.

Financial overview
Net income was up $260 million or 12% from 2016, primarily due to higher revenue, partially offset by higher non-interest expenses and a higher provision for credit losses. Revenue in the current year included a gain on the sale and lease back of certain retail properties, shown as an item of note.

Revenue
Revenue was up $624 million or 8% from 2016.

Personal and small business banking revenue was up $358 million or 5%, primarily due to volume growth and higher fees, partially offset by narrower spreads.

Other revenue was up $266 million, primarily due to the gain noted above, partially offset by lower revenue from our exited FirstLine mortgage broker business.

Provision for credit losses
Provision for credit losses was up $30 million or 4% from 2016, primarily due to higher write-offs in the card and personal lending portfolios, and higher losses in the mortgage portfolio, partially offset by lower losses in the small business lending portfolio.

Non-interest expenses
Non-interest expenses were up $234 million or 6% from 2016, primarily due to fees and charges related to the launch of Simplii Financial and the related wind-down of President's Choice Financial, shown as an item of note, and higher spending on other strategic initiatives that have accelerated our transformation into a modern, convenient and relationship-focused bank.

Income taxes
Income taxes were up $100 million or 14% from 2016, primarily due to higher income, partially offset by the impact of a lower effective tax rate on the gain noted above. The prior year included an income tax recovery from the settlement of transfer pricing-related matters, shown as an item of note.

Average assets
Average assets were up $23.7 billion or 11% from 2016 due to growth across all products.

Canadian Commercial Banking and Wealth Management

Canadian Commercial Banking and Wealth Management provides high-touch, relationship-oriented commercial and private banking, as well as wealth management services to meet the needs of middle-market companies, entrepreneurs, high-net-worth individuals and families, along with institutional clients across Canada.

Our business strategy

Our goal is to be the leading relationship bank in Canada for our commercial and wealth clients by delivering best-in-class advisory capabilities, value, and long-term growth.

2017 progress

The commercial banking and wealth management lines of business were brought together into a single SBU in the fourth quarter of 2017. During the year, each business made progress in driving growth through client focus.

In commercial banking:

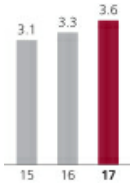
- Continued to focus on relationship-based growth by increasing the number of client-facing relationship managers across the team to meet client needs.
- Met more of our clients' needs on both sides of the border with the ability to make and receive cross-border client referrals in partnership with our commercial banking colleagues in the U.S.
- Introduced the new CIBC Integrated Payments service that enables businesses to streamline their local or global treasury and accounting operations.

In wealth management:

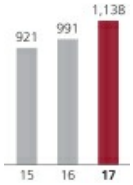
- Co-located private banking teams with CIBC Wood Gundy teams in select locations across the country to deliver a more integrated offer for high-net-worth clients.
- Introduced a suite of new, lower-cost CIBC Passive Portfolios to improve value and accessibility for Canadian investors.
- Enhanced our investment lineup including management fee reductions, lower investment minimums and a simplified product offering.
- Launched the CIBC Active Global Currency Pool for institutional investors, leveraging our 20-year track record of managing active currency strategies.

2017 financial review

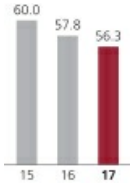
Revenue[1]
($ billions)



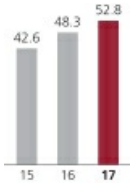
Net income[1]
($ millions)



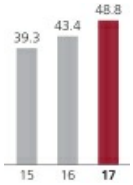
Efficiency ratio[1]
(%)



Average loans[1]
($ billions)



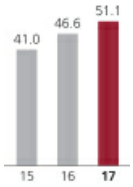
Average deposits[1]
($ billions)



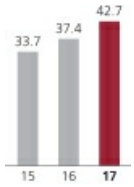
Commercial banking

- 10% growth in lending
- 14% growth in deposits

Average loans[1]
($ billions)



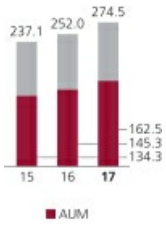
Average deposits[1]
($ billions)



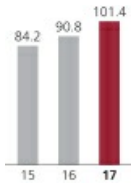
Wealth management

- 12% growth in AUM
- 9% growth in AUA
- Achieved strong net flows in our mutual funds and Canadian private wealth management business

Assets under administration and management[1][2]
($ billions)



Canadian retail mutual funds
($ billions)



(1) Certain prior period information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.
(2) AUM amounts are included in the amounts reported under AUA.

Our focus for 2018

To build on our momentum across this newly created SBU, we will continue to focus on client relationships by:

- Developing and deepening client relationships through a full-service solutions-based approach that includes commercial and private banking, as well as wealth management services.
- Investing in financial planning to become the leader in client advice.
- Simplifying and optimizing our business to align with changing market dynamics, and to better meet the needs of our clients.

Results[1]

$ millions, for the year ended October 31	2017	2016 [2]	2015 [2]
Revenue			
Commercial banking	**$ 1,324**	$ 1,211	$ 1,119
Wealth management	**2,266**	2,061	2,030
Total revenue	**3,590**	3,272	3,149
Provision for credit losses	**16**	29	5
Non-interest expenses	**2,021**	1,890	1,889
Income before income taxes	**1,553**	1,353	1,255
Income taxes	**415**	362	334
Net income	**$ 1,138**	$ 991	$ 921
Net income attributable to:			
Non-controlling interests	**$ –**	$ –	$ –
Equity shareholders (a)	**1,138**	991	921
Efficiency ratio	**56.3 %**	57.8 %	60.0 %
Return on equity [3]	**37.6 %**	34.5 %	36.5 %
Charge for economic capital [3] (b)	**$ (295)**	$ (279)	$ (303)
Economic profit [3] (a+b)	**$ 843**	$ 712	$ 618
Average assets ($ billions)	**$ 50.8**	$ 46.6	$ 40.6
Average loans ($ billions)	**$ 52.8**	$ 48.3	$ 42.6
Average deposits ($ billions)	**$ 48.8**	$ 43.4	$ 39.3
AUA ($ billions)	**$ 274.5**	$ 252.0	$ 237.1
AUM ($ billions)	**$ 162.5**	$ 145.3	$ 134.3
Full-time equivalent employees	**5,081**	4,986	5,024

(1) For additional segmented information, see Note 28 to the consolidated financial statements.
(2) Certain information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.
(3) For additional information, see the "Non-GAAP measures" section.

Financial overview
Net income was up $147 million or 15% from 2016, primarily due to higher revenue, partially offset by higher non-interest expenses.

Revenue
Revenue was up $318 million or 10% from 2016.

Commercial banking revenue was up $113 million or 9%, primarily due to volume growth and higher fees, partially offset by narrower spreads.

Wealth management revenue was up $205 million or 10%, mainly due to higher investment management and custodial fees, and mutual fund fees from higher average AUM and AUA.

Provision for credit losses
Provision for credit losses was down $13 million or 45% from 2016, primarily due to lower losses in the commercial banking portfolio.

Non-interest expenses
Non-interest expenses were up $131 million or 7% from 2016, primarily due to higher performance-based and employee-related compensation.

Income taxes
Income taxes were up $53 million or 15% from 2016, primarily due to higher income.

Assets under administration
AUA were up $22.5 billion or 9% from 2016, due to market appreciation and strong net sales. AUM amounts are included in the amounts reported under AUA.

Average assets
Average assets were up $4.2 billion or 9% from 2016, primarily due to growth in commercial loans.

U.S. Commercial Banking and Wealth Management

U.S. Commercial Banking and Wealth Management provides high-touch, relationship-oriented commercial, personal and small business banking, as well as wealth management services to meet the needs of middle-market companies, executives, entrepreneurs, high-net-worth individuals and families in the markets we serve in the U.S.

On June 23, 2017, we completed the acquisition of PrivateBancorp and its subsidiary The PrivateBank, subsequently rebranded as CIBC Bank USA. The results of CIBC Bank USA are included in this SBU from the date of acquisition (131 days in 2017). See "Significant events" for additional details.

Our business strategy

Our goal is to build the go-to commercial and wealth management bank for our chosen client segments and markets with a focus on developing deep, profitable relationships leveraging the full complement of CIBC's products and services across our North American platform.

2017 progress

In 2017, we made good progress on our strategy.

Add high-quality U.S. banking and private wealth capabilities	Build client relationships and drive profitable growth	Optimize our business platform
• Acquired The PrivateBank, a Chicago-based commercial bank with personal banking and wealth management capabilities that shares our client-first culture and strategy. The acquisition expanded our U.S. presence, provided enhanced growth opportunities, and is a pivotal milestone as we build a strong cross-border platform. • Expanded our private wealth management client base and investment management capabilities through the acquisition of Geneva Advisors, an independent private wealth management firm headquartered in Chicago and focused on high-net-worth clients.	• Achieved solid loan, deposit, and revenue growth, reflecting the acquisition of The PrivateBank and the continued focus on building full, profitable client relationships. • Generated strong growth in AUM and AUA, reflecting acquisitions and continued client development efforts. • Received first-time deposit ratings from Moody's Investors Service, Inc. (Moody's) and Fitch Ratings, Inc. (Fitch), expanding our capabilities to serve new and existing commercial clients.	• Extended the CIBC brand across North America, as The PrivateBank took the CIBC name and began operating as CIBC Bank USA. • Expanded investment management offering to Geneva Advisors and CIBC Bank USA clients through CIBC Atlantic Trust's platform and product strategies. • Leveraged CIBC's banking platform to provide CIBC Atlantic Trust and Geneva Advisors' clients with access to a full complement of private banking solutions.

2017 financial review

Commercial banking

- Strong loan and deposit growth reflecting our continued focus on building client relationships
- Asset quality remained strong, with nonperforming assets representing 0.6% of total assets at year end

Wealth management

- 29% growth in AUM and 27% growth in AUA during the fourth quarter, largely due to the acquisition of Geneva Advisors
- CIBC Atlantic Trust was recognized with two Private Asset Management awards for our industry-leading performance

Our focus for 2018

We are building a relationship-focused bank. To build on our momentum across this newly created SBU, we will continue to align our focus in 2018 to CIBC's overall strategy and priorities. We will do this by:

- Continuing to successfully execute our integration, working as one coordinated team.
- Remaining focused on maintaining and developing profitable client relationships, leveraging our combined strengths, resources, and expanded capabilities to accelerate organic growth in the U.S.
- Improving operating leverage in our U.S. businesses by leveraging the best innovative practices.

Results[1]

$ millions, for the year ended October 31	2017	2016 [2]	2015 [2]
Revenue			
Commercial banking	**$ 523**	$ 166	$ 212
Wealth management	**318**	217	226
Other	**35**	2	1
Total revenue [3]	**876**	385	439
Provision for (reversal of) credit losses	**84**	(2)	11
Non-interest expenses	**534**	288	294
Income before income taxes	**258**	99	134
Income taxes [3]	**55**	12	30
Net income	**$ 203**	$ 87	$ 104
Net income attributable to:			
Equity shareholders (a)	**$ 203**	$ 87	$ 104
Efficiency ratio	**61.0 %**	74.8 %	67.0 %
Return on equity [4]	**7.5 %**	17.6 %	20.7 %
Charge for economic capital [4] (b)	**$ (256)**	$ (48)	$ (60)
Economic profit [4] (a+b)	**$ (53)**	$ 39	$ 44
Average assets ($ billions)	**$ 19.9**	$ 8.4	$ 7.6
Average loans ($ billions)	**$ 15.9**	$ 8.0	$ 7.2
Average deposits ($ billions)	**$ 7.6**	$ 0.1	$ 0.1
AUA ($ billions)	**$ 74.0**	$ 44.1	$ 41.3
AUM ($ billions)	**$ 58.7**	$ 38.0	$ 35.6
Full-time equivalent employees	**1,753**	310	308

(1) For additional segmented information, see Note 28 to the consolidated financial statements.
(2) Certain information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.
(3) Revenue and income taxes are reported on a TEB basis. Accordingly, revenue and income taxes include a TEB adjustment of $2 million (2016: nil; 2015: nil). The equivalent amounts are offset in the revenue and income taxes of Corporate and Other.
(4) For additional information, see the "Non-GAAP measures" section.

Financial overview
Net income was up $116 million or 133% from 2016. CIBC Bank USA contributed $96 million to net income during the year.

Revenue
Revenue was up $491 million or 128% from 2016. CIBC Bank USA contributed $448 million to revenue during the year.

Commercial banking revenue was up $357 million or 215%, primarily due to the inclusion of the results of CIBC Bank USA, and higher revenue in U.S. real estate finance. In addition, the current year included accretion of the acquisition date fair value discount on the acquired loans of The PrivateBank[1].

Wealth management revenue was up $101 million or 47%, primarily due to the inclusion of the results of CIBC Bank USA, and growth in average AUM mainly due to the acquisition of Geneva Advisors. In addition, the current year included accretion of the acquisition date fair value discount on the acquired loans of The PrivateBank[1].

Other revenue primarily includes the Treasury activities of CIBC Bank USA.

Provision for credit losses
Provision for credit losses was $84 million, compared with a reversal of credit losses of $2 million in 2016. The increase was primarily due to the establishment of a $48 million collective allowance for new loan originations and renewals of acquired loans relating to CIBC Bank USA, of which $35 million was shown as an item of note in the fourth quarter of 2017. In addition, the current year included losses in our pre-existing U.S. real estate finance portfolio.

Non-interest expenses
Non-interest expenses were up $246 million or 85% from 2016, primarily due to the inclusion of the results of CIBC Bank USA of $244 million, which included compensation expenses of $40 million related to the retention of key employees.

Income taxes
Income taxes were up $43 million or 358% from 2016, primarily due to higher income from the inclusion of the results of CIBC Bank USA.

Average assets
Average assets were up $11.5 billion or 137% from 2016 due to the inclusion of the balances of CIBC Bank USA.

Assets under administration
AUA were up $29.9 billion or 68% from 2016 due to the inclusion of the balances of CIBC Bank USA and Geneva Advisors.

(1) 2017 included $45 million of accretion of the acquisition date fair value discount on the acquired loans of The PrivateBank, of which $31 million was included as an item of note in the fourth quarter of 2017.

Capital Markets

Capital Markets provides integrated global markets products and services, investment banking advisory and execution, corporate banking and top-ranked research to corporate, government and institutional clients around the world.

Our business strategy

Our goal is to be the leading capital markets franchise for our core clients in Canada and the lead relationship bank for our core clients globally by delivering best-in-class insight, advice and execution. To enable CIBC's strategy and priorities, we collaborated with our partners across our bank to deepen and enhance client relationships.

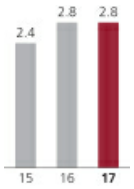
2017 progress

We made good progress in 2017 on our strategy.

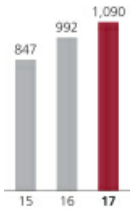
Continue to strengthen our platform in Canada for our clients	Build a North American client platform and expand coverage in key sectors globally	Deliver innovation to clients across CIBC
• Continued to hold leadership positions in syndicated loans, debt and equity underwriting, advisory services, equity trading, commodities and foreign exchange. • Supported our clients by investing in our talent, further developing our proprietary technology, expanding our structuring expertise and advice and leveraging our market expertise. • Strengthened our platform by continuing to evolve our research coverage framework and provide specialized advice and solutions, aligned to the macro trends influencing the global economy and our clients.	• Continued the organic expansion of our platform and capabilities in the U.S. by employing our client-led strategy. • Continued to leverage our strengths and added talent to complement our investments and infrastructure in the U.S. • Helped our clients navigate market movements and volatility through proactive advice and trading solutions.	• Strengthened our no-fee CIBC Global Money Transfer service by increasing the number of countries to which clients can send money. • Introduced *International Student Pay*, a first-of-its-kind partnership in Canada with academic institutions to enable students to make tuition payments in their local currency. • Expanded our Technology & Innovation team to provide specialized insight and advice, and collaborated with our banking partners to further our bank's strategic innovation agenda.

2017 financial review

Revenue[1]
($ billions)



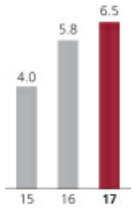
Net income[1]
($ millions)



Efficiency ratio
(%)



Average value-at-risk (VaR)
($ millions)



(1) Certain prior period information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.

As a leading capital markets franchise in Canada and banking partner to our clients around the world, Capital Markets acted as:

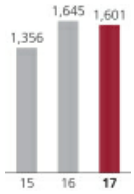
- Exclusive financial advisor to Pembina Pipeline Corp. on its $9.7 billion acquisition of Veresen Inc.;
- Joint bookrunner on a $1.4 billion issue of convertible unsecured subordinated debentures represented by installment receipts for Hydro One Ltd. in support of the acquisition of Avista Corporation, joint global coordinator and joint bookrunner on a $2.8 billion bought secondary offering of Hydro One Ltd. common shares by the Province of Ontario and joint bookrunner for a $950 million dual-tranche offering of medium-term notes;
- Financial Advisor to Metro Inc. in its $4.5 billion acquisition of The Jean Coutu Group (PJC) Inc. and joint bookrunner and co-lead arranger on the establishment of $3.45 billion in new facilities to support the acquisition; in addition, co-Manager on Metro's sale of $650 million subordinate voting shares of Couche-Tard by way of a block trade bought deal;
- Joint bookrunner on Kinder Morgan Canada Ltd.'s $1.75 billion initial public offering and joint bookrunner and co-lead arranger for the $5.5 billion in credit facilities to fund TMEP as well as joint bookrunner on a $300 million issue of preferred shares;
- Lead underwriter and joint bookrunner on a $1.4 billion 4-tranche issue of senior secured nominal amortizing bonds for Alberta PowerLine LP;
- Exclusive financial advisor to Teck Resources Limited on its $1.2 billion sale of the Waneta Dam;
- Financial advisor to Sentry Investments on its $780 million sale to CI Financial;
- Exclusive financial advisor to Barrick Gold on its US$960 million sale of a 50% interest in the Veladero Mine in Argentina to Shandong Gold Mining Co., Ltd.;
- Lead manager and joint bookrunner on a $414 million bought deal offering of subscription receipts and on a $300 million offering of preferred shares, and joint lead and joint bookrunner on a $425 million issue of unsecured medium term notes for Intact Financial Corporation in support of its acquisition of OneBeacon Insurance Group, Ltd for US$1.7 billion; and

- Lead bookrunner on Canada Goose Holdings Inc.'s $391 million dual-listed initial public offering on the TSX and NYSE and its follow-on US$259 million secondary offering of subordinate voting shares, as well as joint lead on its US$163 million Term Loan B offering, and agent and joint lead arranger on its $250 million asset-backed loan facility.

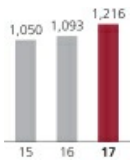
Capital Markets awards and recognition

- Canada Derivatives House Of The Year – 2017 *GlobalCapital Americas Derivatives Awards*
- 2017 Canadian Hedge Fund Award for Top Canadian Prime Broker – *Alternative IQ*
- Multi-deal winner at the 2017 *IJGlobal Americas Deals of the Year Awards* :
  - Project Financing, Americas – Kingston Jamaica Port Terminal
  - Refinancing, Americas – Sabine Pass & Creole Trail Refinancing
  - Acquisition Financing, Americas – Chicago Skyway
  - Acquisition Financing, Europe – London City Airport
  - Acquisition Financing, Asia Pacific – Port of Melbourne
  - Project Financing, Africa – Oyu Tolgoi Copper Project, Mongolia
- Ranked #1 for number of deals led in Canadian Loan Syndication *Thomson Reuters and Bloomberg Lead Arranger League Tables* , January-September 2017

Revenue – Global markets (1)
($ millions)



Revenue – Corporate and investment banking (1)
($ millions)



(1) Certain prior period information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.

Our focus for 2018

To support our bank's long-term objectives, Capital Markets remains focused on driving client-focused growth, and collaborating with our partners across our bank to deepen and enhance client relationships. We will continue to do this by:

- Strengthening our leadership positions in Canada.
- Building a North American client platform and aligning our global capabilities.
- Delivering innovative solutions to profitably grow and protect our businesses.

Results(1)

$ millions, for the year ended October 31	**2017**	2016 (2)	2015 (2)
Revenue			
Global markets	**$ 1,601**	$ 1,645	$ 1,356
Corporate and investment banking	**1,216**	1,093	1,050
Other	**6**	18	(2)
Total revenue (3)	**2,823**	2,756	2,404
Provision for (reversal of) credit losses	**(4)**	155	44
Non-interest expenses	**1,373**	1,328	1,264
Income before income taxes	**1,454**	1,273	1,096
Income taxes (3)	**364**	281	249
Net income	**$ 1,090**	$ 992	$ 847
Net income attributable to:			
Equity shareholders (a)	**$ 1,090**	$ 992	$ 847
Efficiency ratio	**48.6 %**	48.2 %	52.6 %
Return on equity (4)	**35.5 %**	30.6 %	35.7 %
Charge for economic capital (4) (b)	**$ (299)**	$ (314)	$ (284)
Economic profit (4) (a+b)	**$ 791**	$ 678	$ 563
Average assets ($ billions)	**$ 156.4**	$ 154.8	$ 134.7
Full-time equivalent employees	**1,314**	1,260	1,270

(1) For additional segmented information, see Note 28 to the consolidated financial statements.
(2) Certain information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.
(3) Revenue and income taxes are reported on a TEB basis. Accordingly, revenue and income taxes include a TEB adjustment of $298 million (2016: $474 million; 2015: $482 million). The equivalent amounts are offset in the revenue and income taxes of Corporate and Other.
(4) For additional information, see the "Non-GAAP measures" section.

Financial overview
Net income was up $98 million or 10% from 2016, primarily due to a reversal of credit losses compared with a provision for credit losses in 2016, and higher revenue, partially offset by higher non-interest expenses and income taxes.

Revenue
Revenue was up $67 million or 2% from 2016.

Global markets revenue was down $44 million or 3%, primarily due to lower revenue from equity derivatives, interest rate, and foreign exchange trading, partially offset by higher revenue from global markets financing activities, equity trading, the movement in reserves related to derivative client exposure, and a gain on sale of an investment.

Corporate and investment banking revenue was up $123 million or 11%, primarily due to higher investment portfolio gains, higher debt underwriting activity, and higher revenue from corporate banking, partially offset by lower revenue from equity underwriting.

Other revenue was down $12 million or 67%, due to lower revenue from our run-off businesses, as 2016 included a gain from the structured credit run-off business, shown as an item of note.

Provision for credit losses
2017 included a reversal of credit losses of $4 million, compared with a provision for credit losses of $155 million in 2016, primarily due to better performance in the oil and gas sector. The prior year also included losses in our exited European leveraged finance portfolio, shown as an item of note.

Non-interest expenses
Non-interest expenses were up $45 million or 3% from 2016, primarily due to higher spending on strategic initiatives and performance-based compensation.

Income taxes
Income taxes were up $83 million or 30% from 2016, primarily due to higher income and the impact of changes in the proportion of income subject to varying rates of tax in different jurisdictions.

Average assets
Average assets were up $1.6 billion or 1% from 2016, primarily due to an increase in trading securities, partially offset by a decrease in loan balances.

Corporate and Other

Corporate and Other includes the following functional groups – Administration, Client Connectivity and Innovation, Finance, Human Resources and Communications, Internal Audit, Risk Management, and Technology and Operations, as well as other support groups. The expenses of these functional and support groups are generally allocated to the business lines within the SBUs. The functional and support costs of CIBC Bank USA are recognized directly in the expenses of U.S. Commercial Banking and Wealth Management. Corporate and Other also includes the results of CIBC FirstCaribbean and other strategic investments, as well as other income statement and balance sheet items not directly attributable to the business lines.

Results[1]

$ millions, for the year ended October 31	**2017**	2016 [2]	2015 [2]
Revenue			
International banking	**$ 723**	$ 722	$ 678
Other	**(104)**	152	(194)
Total revenue [3]	**619**	874	484
Provision for (reversal of) credit losses	**(33)**	133	47
Non-interest expenses	**1,295**	1,351	1,439
Loss before income taxes	**(643)**	(610)	(1,002)
Income taxes [3]	**(510)**	(675)	(694)
Net income (loss)	**$ (133)**	$ 65	$ (308)
Net income (loss) attributable to:			
Non-controlling interests	**$ 19**	$ 20	$ 14
Equity shareholders	**(152)**	45	(322)
Full-time equivalent employees	**22,071**	21,156	21,017

(1) For additional segmented information, see Note 28 to the consolidated financial statements.
(2) Certain information has been reclassified to conform to the presentation adopted in the current year. See "External reporting changes" for additional details.
(3) Revenue and income taxes of Capital Markets and U.S. Commercial Banking and Wealth Management are reported on a TEB basis. The equivalent amounts are offset in the revenue and income taxes of Corporate and Other. Accordingly, revenue and income taxes include a TEB adjustment of $300 million (2016: $474 million; 2015: $482 million).

Financial overview
Net loss was $133 million compared with net income of $65 million in 2016, primarily due to lower revenue and a lower income tax benefit, partially offset by a reversal of credit losses compared with a provision for credit losses in 2016, and lower non-interest expenses.

Revenue
Revenue was down $255 million or 29% from 2016.

International banking revenue was comparable with 2016, as better performance in CIBC FirstCaribbean was partially offset by the unfavourable impact of foreign exchange rates.

Other revenue was down $256 million or 168% from 2016, as the prior year included a gain, net of transaction costs, on the sale of our minority investment in ACI, and a gain on sale of a processing centre, both shown as items of note. The decrease was partially offset by a lower TEB adjustment[3] and higher treasury revenue.

Provision for credit losses
2017 included a reversal of credit losses of $33 million, compared with a provision for credit losses of $133 million in 2016. The current year included a reduction in the collective allowance, shown as an item of note, which was net of a higher provision in the Caribbean region mainly due to the recent hurricanes. The prior year included increases in the collective allowance, shown as items of note.

Non-interest expenses
Non-interest expenses were down $56 million or 4% from 2016, as the prior year included restructuring charges primarily relating to employee severance, and a legal provision, both shown as items of note. The decrease was partially offset by higher spending on strategic initiatives in the current year, including transaction and integration-related costs associated with the acquisition of The PrivateBank, and a legal provision, both shown as items of note.

Income taxes
Income tax benefit was down $165 million, primarily due to a lower TEB adjustment [3], and an income tax recovery arising from a change in our expected utilization of certain tax loss carryforwards, shown as an item of note in 2016. The decrease was partially offset by higher losses in the current year, as 2016 included the gain on sale of ACI noted above.

Financial condition

Review of condensed consolidated balance sheet

$ millions, as at October 31	2017 (1)	2016
Assets		
Cash and deposits with banks	**$ 14,152**	$ 14,165
Securities		
Trading	**50,679**	49,915
AFS and held-to-maturity (HTM)	**42,592**	37,253
FVO	**148**	255
	93,419	87,423
Securities borrowed or purchased under resale agreements	**45,418**	33,810
Loans and acceptances		
Residential mortgages	**207,271**	187,298
Personal	**40,937**	38,041
Credit card	**12,378**	12,332
Business and government	**106,590**	83,801
Allowance for credit losses	**(1,618)**	(1,691)
	365,558	319,781
Derivative instruments	**24,342**	27,762
Other assets	**22,375**	18,416
	$ 565,264	$ 501,357
Liabilities and equity		
Deposits		
Personal	**$ 159,327**	$ 148,081
Business and government	**225,622**	190,240
Bank	**13,789**	17,842
Secured borrowings	**40,968**	39,484
	439,706	395,647
Obligations related to securities lent or sold short or under repurchase agreements	**43,708**	24,550
Derivative instruments	**23,271**	28,807
Acceptances	**8,828**	12,395
Other liabilities	**15,305**	12,919
Subordinated indebtedness	**3,209**	3,366
Equity	**31,237**	23,673
	$ 565,264	$ 501,357

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Assets

Total assets as at October 31, 2017 were up $63.9 billion or 13% from 2016, net of a decrease of approximately $3 billion due to the depreciation of the U.S. dollar. The assets of CIBC Bank USA were approximately $33 billion as at October 31, 2017.

Securities increased by $6.0 billion or 7%, primarily due to the inclusion of securities from CIBC Bank USA. Further details on the composition of securities are provided in the "Supplementary annual financial information" section and Note 4 to the consolidated financial statements.

Securities borrowed or purchased under resale agreements increased by $11.6 billion or 34%, primarily due to client-driven activities.

Net loans and acceptances increased by $45.8 billion or 14% due to an increase in domestic residential mortgages and an increase in U.S. business and government loans from CIBC Bank USA. Further details on the composition of loans and acceptances are provided in the "Supplementary annual financial information" section and Note 5 to the consolidated financial statements.

Derivative instruments decreased by $3.4 billion or 12%, largely driven by a decrease in interest rate and foreign exchange derivatives valuation, partially offset by an increase in equity derivatives valuation.

Other assets increased by $4.0 billion or 21%, primarily due to the increase in goodwill as a result of the acquisition of The PrivateBank.

Liabilities

Total liabilities as at October 31, 2017 were up $56.3 billion or 12% from 2016, net of a decrease of approximately $3 billion due to the depreciation of the U.S. dollar. The liabilities of CIBC Bank USA were approximately $26 billion as at October 31, 2017.

Deposits increased by $44.1 billion or 11%, primarily due to the inclusion of the balances of CIBC Bank USA, domestic retail volume growth, and increased wholesale funding. Further details on the composition of deposits are provided in the "Supplementary annual financial information" section and Note 10 to the consolidated financial statements.

Obligations related to securities lent or sold short or under repurchase agreements increased by $19.2 billion or 78%, primarily due to client-driven activities.

Derivative instruments decreased by $5.5 billion or 19%, largely driven by a decrease in interest rate and foreign exchange derivatives valuation, partially offset by an increase in equity derivatives valuation.

Acceptances decreased by $3.6 billion or 29%, driven by changes in client activities.

Other liabilities increased by $2.4 billion or 18%, primarily due to an increase in broker payables, collateral received for derivatives, and accrued liabilities.

Equity

Equity as at October 31, 2017 was up $7.6 billion or 32% from 2016, primarily due to share issuance arising from the acquisitions of The PrivateBank and Geneva Advisors and from our shareholder and employee plans, as well as a net increase in retained earnings.

Capital resources

Our capital strength protects our depositors and creditors from risks inherent in our businesses, allows us to absorb unexpected losses, and enables us to take advantage of attractive business opportunities. It also enables us to maintain a favourable credit standing and to raise additional capital or other funding on attractive terms. Our objective is to maintain a strong and efficient capital base. Capital needs to be monitored and rebalanced continually; we manage and monitor our capital to maximize risk-adjusted return to shareholders and to maintain a sufficient capital buffer to ensure that we meet regulatory requirements.

Regulatory capital requirements under Basel III

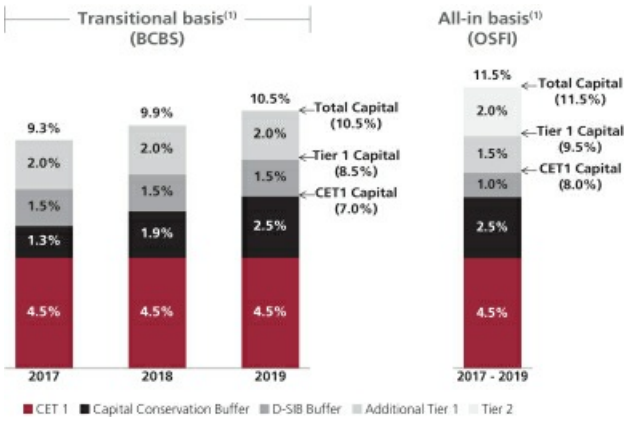
Our regulatory capital requirements are determined in accordance with guidelines issued by OSFI, which are based upon the risk-based capital standards developed by the Basel Committee on Banking Supervision (BCBS).

Regulatory capital consists of CET1, Tier 1 and Tier 2 capital. OSFI requires all institutions to achieve target capital ratios that meet or exceed the 2019 all-in minimum ratios plus a conservation buffer. "All-in" is defined by OSFI as capital calculated to include all of the regulatory adjustments that will be required by 2019, but retaining the phase-out rules for non-qualifying capital instruments. Certain deductions from CET1 capital are phased in at 20% per year from 2014 for the determination of capital under the transitional rules. Amounts not yet deducted from capital under OSFI's transitional rules are risk weighted, creating a difference between RWAs on a transitional and all-in basis.

CIBC, along with the Bank of Montreal, the Bank of Nova Scotia, the National Bank of Canada, the Royal Bank of Canada, and the Toronto-Dominion Bank, have been designated by OSFI as domestic systemically important banks (D-SIBs) in Canada, and they are subject to a 1.0% CET1 surcharge, which commenced January 1, 2016. This results in current minimum targets for CET1, Tier 1 and Total capital ratios of 8.0%, 9.5%, and 11.5%, respectively, for the D-SIBs. These targets may be higher for certain institutions at OSFI's discretion. Additionally, effective beginning in the first quarter of 2017, banks need to hold an incremental countercyclical capital buffer equal to the weighted average of buffers deployed in Canada and across certain other jurisdictions, where private sector credit exposures exist(1).

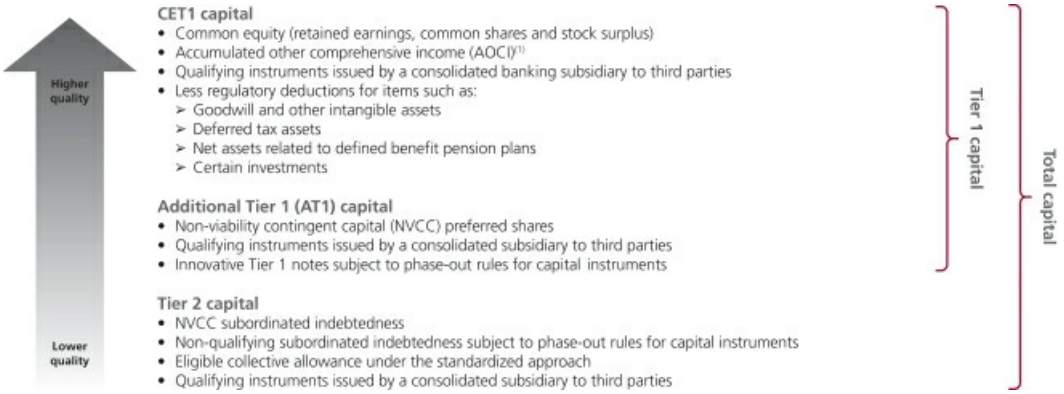
Capital adequacy requirements are applied on a consolidated basis. The consolidation basis applied to our financial statements is described in Note 1 of the consolidated financial statements, except for our insurance subsidiaries (CIBC Reinsurance Company Limited and CIBC Life Insurance Company Limited), which are excluded from the regulatory scope of consolidation. CIBC Life Insurance Company Limited is subject to OSFI's Minimum Continuing Capital Surplus Requirements for life insurance companies. Starting January 2018, CIBC Life Insurance Company Limited will be subject to OSFI's Life Insurance Capital Adequacy Test.

A comparison of the BCBS transitional capital ratio requirements and the OSFI all-in target capital ratio requirements is as follows:



(1) A countercyclical capital buffer is also applicable, but is insignificant for CIBC as at October 31, 2017.

The tiers of regulatory capital indicate increasing quality/permanence and the ability to absorb losses. The major components of our regulatory capital are summarized as follows:



(1) Excluding accumulated other comprehensive income (AOCI) relating to cash flow hedges and changes to FVO liabilities attributable to changes in own credit risk.

Risk-weighted assets

The following table provides a summary of permissible regulatory capital approaches and those adopted by CIBC:

Risk category	Permissible regulatory capital approaches	Approach adopted by CIBC
Credit risk	Basel provides three approaches for calculating credit risk capital requirements – standardized, foundation and advanced internal ratings-based (AIRB). OSFI expects financial institutions in Canada with assets in excess of $5 billion to use the AIRB approach for all material portfolios and credit businesses. Basel provides two approaches for calculating credit risk capital requirements for securitization positions in the banking book – standardized and internal ratings-based (IRB) approaches.	We have adopted the AIRB approach for the majority of our credit portfolios. Under this methodology, we utilize our own internal estimates to determine probability of default (PD), loss given default (LGD), maturity, and exposure at default (EAD) for lending products and securities. We use the IRB approach for securitization exposures, which comprises several calculation approaches (Ratings-Based, Supervisory Formula, Internal Assessment Approach). Some portfolios, for which sufficient historical data is unavailable, remain on the standardized approach.
Market risk	Market risk capital requirements can be determined under the standardized or internal models approaches. The latter involves the use of internal VaR models to measure market risk and determine the appropriate capital requirement. The stressed VaR and incremental risk charge (IRC) also form part of the internal models approach.	We use the internal models approach to calculate market risk capital. Our internal market risk models comprise VaR, stressed VaR, and IRC. We also use the IRB approach for trading book securitization positions.
Operational risk	Operational risk capital requirements can be determined under the basic indicator approach, standardized approach or advanced measurement approach (AMA).	We use AMA and standardized approaches based on OSFI rules to calculate operational risk capital.

Since the introduction of Basel II in 2008, OSFI has prescribed a capital floor requirement for institutions that use the AIRB approach for credit risk. The capital floor is determined by comparing a capital requirement calculated by reference to Basel I against the Basel III calculation, as specified by OSFI. Any shortfall in the Basel III capital requirement compared with the Basel I floor is added to RWAs.

Regulatory capital and ratios

The components of our regulatory capital and ratios under Basel III (all-in basis) are presented in the table below:

$ millions, as at October 31	2017	2016
Common Equity Tier 1 (CET1) capital: instruments and reserves		
Directly issued qualifying common share capital plus related stock surplus	**$ 12,685**	$ 8,096
Retained earnings	**16,101**	13,584
AOCI (and other reserves)	**452**	790
Common share capital issued by subsidiaries and held by third parties (amount allowed in group CET1)	**109**	113
CET1 capital before regulatory adjustments	**29,347**	22,583
CET1 capital: regulatory adjustments		
Prudential valuation adjustments	**62**	69
Goodwill (net of related tax liabilities)	**5,284**	1,461
Other intangibles other than mortgage-servicing rights (net of related tax liabilities)	**1,654**	1,258
Deferred tax assets excluding those arising from temporary differences (net of related tax liabilities)	**18**	70
Defined benefit pension fund net assets (net of related tax liabilities)	**160**	156
Significant investments in the common stock of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions (amount above 10% threshold)	**–**	–
Other	**551**	421
Total regulatory adjustments to CET1 capital	**7,729**	3,435
CET1 capital	**21,618**	19,148
Additional Tier 1 (AT1) capital: instruments		
Directly issued qualifying AT1 instruments plus related stock surplus (1)	**1,797**	1,000
Directly issued capital instruments subject to phase out from AT1 (2)	**1,253**	1,504
Additional Tier 1 Instruments issued by subsidiaries and held by third parties (amount allowed in AT1)	**14**	14
AT1 capital before regulatory adjustments	**3,064**	2,518
AT1 capital: regulatory adjustments		
Other deductions from Tier 1 capital as determined by OSFI	**–**	–
Total regulatory adjustments to AT1 capital	**–**	–
AT1 capital	**3,064**	2,518
Tier 1 capital (T1 = CET1 + AT1)	**24,682**	21,666
Tier 2 capital: instruments and provisions		
Directly issued qualifying Tier 2 instruments plus related stock surplus (3)	**1,961**	2,001
Directly issued capital instruments subject to phase out from Tier 2	**1,204**	1,323
Tier 2 instruments issued by subsidiaries and held by third parties (amount allowed in Tier 2)	**19**	19
Collective allowances	**263**	74
Tier 2 capital before regulatory adjustments	**3,447**	3,417
Total regulatory adjustments to Tier 2 capital	**–**	–
Tier 2 capital (T2)	**3,447**	3,417
Total capital (TC = T1 + T2)	**$ 28,129**	$ 25,083
CET1 capital RWA (4)	**$ 203,321**	$ 168,996
Tier 1 capital RWA (4)	**203,321**	169,322
Total capital RWA (4)	**203,321**	169,601
Capital ratios		
CET1 ratio	**10.6 %**	11.3 %
Tier 1 capital ratio	**12.1 %**	12.8 %
Total capital ratio	**13.8 %**	14.8 %

(1) Comprises non-cumulative Class A Preferred Shares Series 39, 41, 43 and 45 which are treated as non-viability contingent capital (NVCC) in accordance with OSFI's capital adequacy guidelines.
(2) Comprises CIBC Tier 1 Notes – Series A and Series B due June 30, 2108 (together, the Tier 1 Notes).
(3) Comprises Debentures due on October 28, 2024 and January 26, 2026 which are treated as NVCC in accordance with OSFI's capital adequacy guidelines.
(4) All-in RWAs as at October 31, 2017 include a capital floor adjustment. See "Risk-weighted assets" section on page 31 for additional details.

The components of our regulatory capital and ratios on a transitional basis are presented in the table below:

$ millions, as at October 31	2017	2016
CET1 capital	**$ 23,254**	$ 20,751
Tier 1 capital	**25,198**	22,596
Total capital	**28,594**	25,949
RWA (1)	**207,910**	173,902
CET1 ratio	**11.2 %**	11.9 %
Tier 1 ratio	**12.1 %**	13.0 %
Total capital ratio	**13.8 %**	14.9 %

(1) Transitional RWAs as at October 31, 2017 and 2016 include capital floor adjustments.

The components of our RWAs and corresponding minimum total capital requirements are presented in the table below:

$ millions, as at October 31	2017		2016	
	RWA (All-in basis)	**Minimum total capital required** [1]	RWA (All-in basis)	Minimum total capital required [1]
Credit risk [2]				
Standardized approach				
Corporate	**$ 28,029**	**$ 2,242**	$ 3,645	$ 292
Sovereign	**1,597**	**128**	780	62
Banks	**488**	**39**	521	42
Real estate secured personal lending	**2,735**	**219**	2,181	174
Other retail	**933**	**75**	667	53
Trading book	**187**	**15**	123	10
	33,969	**2,718**	7,917	633
AIRB approach				
Corporate	**64,924**	**5,194**	64,856	5,188
Sovereign [3]	**2,093**	**167**	2,185	175
Banks	**3,215**	**257**	3,526	282
Real estate secured personal lending	**14,738**	**1,179**	12,115	969
Qualifying revolving retail	**17,355**	**1,388**	17,512	1,401
Other retail	**7,579**	**606**	7,813	625
Equity	**759**	**61**	705	56
Trading book	**3,345**	**268**	3,576	286
Securitization	**1,341**	**107**	2,218	177
Adjustment for scaling factor	**6,911**	**553**	6,860	549
	122,260	**9,780**	121,366	9,708
Other credit RWA	**11,427**	**914**	10,815	865
Total credit risk (before adjustment for CVA phase-in) [4]	**167,656**	**13,412**	140,098	11,206
Market risk (Internal Models and IRB Approach)				
VaR	**935**	**75**	881	70
Stressed VaR	**2,058**	**165**	1,623	130
Incremental risk charge	**1,843**	**147**	1,624	130
Securitization and other	**556**	**44**	47	4
Total market risk	**5,392**	**431**	4,175	334
Operational risk	**24,664**	**1,973**	21,746	1,740
Total RWA before adjustment for CVA phase-in	**$ 197,712**	**$ 15,816**	$ 166,019	$ 13,280
CVA adjustment [4]				
CET1 RWA	**$ 3,498**	**$ 280**	$ 2,977	$ 238
Tier 1 RWA	**3,741**	**299**	3,303	264
Total RWA	**3,935**	**315**	3,582	287
Capital floor adjustment [4]				
CET1 RWA	**$ 2,111**	**$ 169**	n/a	n/a
Tier 1 RWA	**1,868**	**150**	n/a	n/a
Total RWA	**1,674**	**134**	n/a	n/a
Total RWA after adjustment for CVA phase-in [4]				
CET1 capital RWA	**$ 203,321**	**$ 16,265**	$ 168,996	$ 13,518
Tier 1 capital RWA	**203,321**	**16,265**	169,322	13,544
Total capital RWA	**203,321**	**16,265**	169,601	13,567

(1) Refers to the minimum standard established by the BCBS before the application of the capital conservation buffer and any other capital buffers including but not limited to the capital surcharge for global/domestic systemically important banks that may be established by regulators from time to time. It is calculated by multiplying RWA by 8%.
(2) Credit risk for CIBC Bank USA and CIBC FirstCaribbean are calculated under the standardized approach.
(3) Includes residential mortgages insured by Canada Mortgage and Housing Corporation (CMHC), an agency of the Government of Canada, and government guaranteed student loans.
(4) Before any capital floor requirement as applicable, there are three different levels of RWAs for the calculation of the CET1, Tier 1, and Total capital ratios arising from the option CIBC has chosen for the phase-in of the CVA capital charge. All-in RWAs as at October 31, 2017 include a capital floor adjustment.

CET1 ratio (All-in basis)

The CET1 ratio at October 31, 2017 decreased 0.7% from October 31, 2016, driven by an increase in CET1 capital RWAs, partially offset by an increase in CET1 capital. The increase in CET1 RWAs was primarily due to the inclusion of the balances of CIBC Bank USA, organic growth, portfolio migrations, a Basel I capital floor adjustment and capital methodology updates, partially offset by net foreign exchange movement and capital model updates. The increase in CET1 capital was the result of share issuance arising from the acquisitions of The PrivateBank and Geneva Advisors, our shareholder investment plan and employee share purchase plan, and internal capital generation (net income less dividends), partially offset by higher regulatory deductions for goodwill and intangible assets arising from the acquisitions and net foreign exchange movement.

We hold regulatory capital against the underlying exposures associated with our credit card securitization trust, CARDS II Trust, as we have in the past provided non-contractual support to the trust. Applying this treatment resulted in a reduction of our 2017 Basel III CET1, Tier 1 and Total capital ratios by approximately 0.12%, 0.14% and 0.15%, respectively (2016: 0.08%, 0.08% and 0.08%, respectively).

Movement in total regulatory capital

Changes in regulatory capital (all-in basis) under Basel III are presented in the table below:

$ millions, for the year ended October 31	2017	2016
Balance at beginning of year	**$ 25,083**	$ 23,434
Issue of common shares pursuant to the acquisition of The PrivateBank	**3,443**	–
Issue of common shares pursuant to the acquisition of Geneva Advisors	**126**	–
Other issue of common shares	**208**	109
Issue of preferred shares	**800**	–
Issue of subordinated indebtedness	**–**	1,000
Purchase of common shares for cancellation	**–**	(61)
Redemption of preferred shares	**–**	–
Net income attributable to equity shareholders	**4,699**	4,275
Preferred and common share dividends	**(2,173)**	(1,917)
Premium on purchase of common shares for cancellation	**–**	(209)
Shares issued in lieu of cash dividends	**749**	164
Change in AOCI balances included in regulatory capital		
Net foreign currency translation adjustments	**(376)**	79
Net change in AFS securities	**(101)**	67
Net change in cash flow hedges	**10**	1
Net change in post-employment defined benefit plans	**139**	(390)
Change in shortfall of allowance to expected losses	**(191)**	(162)
Change in goodwill and other intangible assets	**(4,219)**	185
Redemption of subordinated indebtedness	**–**	(1,500)
Other, including change in regulatory adjustments	**(68)**	8
Balance at end of year	**$ 28,129**	$ 25,083

Movement in CET1 capital RWAs

The following tables show the movement in CET1 capital RWAs (all-in basis) relating to credit, market and operational risks.

Credit risk

$ millions, for the year ended October 31	2017		2016	
	Credit risk	**Of which counterparty credit risk (1)**	Credit risk	Of which counterparty credit risk (1)
Balance at beginning of year	**$ 143,075**	**$ 8,861**	$ 133,505	$ 7,898
Book size (2)	**13,151**	**1,881**	13,456	1,402
Book quality (3)	**(4,628)**	**(1,116)**	1,779	(408)
Model updates (4)	**(3,080)**	**(37)**	(1,600)	–
Methodology and policy (5)	**1,155**	**361**	–	–
Acquisitions and disposals	**26,517**	**90**	(1,712)	–
Foreign exchange movements	**(2,119)**	**(87)**	565	44
Other	**(2,917)**	**172**	(2,918)	(75)
Balance at end of year (6)	**$ 171,154**	**$ 10,125**	$ 143,075	$ 8,861

(1) Comprises derivatives and repo-style transactions.
(2) Relates to net increase/decrease in the underlying exposures.
(3) Relates to changes in credit risk mitigation and credit quality of the borrower/counterparty.
(4) Relates to internal model or parameter changes.
(5) Relates to regulatory changes implemented on an industry-wide basis (i.e., Basel III) and any capital methodology changes implemented within CIBC for our portfolios.
(6) Includes $3,498 million (2016: $2,977 million) of CET1 CVA RWAs relating to bilateral over-the-counter (OTC) derivatives.

The increase in credit risk RWAs is primarily due to the inclusion of the balances of CIBC Bank USA, as well as organic growth across our businesses throughout the year. The decrease in the book quality category reflects the impact of portfolio upgrades during the year. Model updates include refinements and normal course updates to our underlying AIRB models and parameters.

Market risk

$ millions, for the year ended October 31	2017	2016
Balance at beginning of year	**$ 4,175**	$ 4,408
Movement in risk levels (1)	**1,149**	(268)
Model updates (2)	**(252)**	(46)
Methodology and policy (3)	**–**	5
Acquisitions and disposals	**59**	–
Foreign exchange movements	**261**	76
Other	**–**	–
Balance at end of year	**$ 5,392**	$ 4,175

(1) Relates to changes in open positions and market data.
(2) Relates to internal model or parameter changes.
(3) Relates to regulatory changes implemented on an industry-wide basis (i.e., Basel III) and any capital methodology changes implemented within CIBC for our portfolios.

The overall increase in market risk RWAs is primarily driven by movement in risk levels, which includes changes in open positions and the market rates affecting these positions, along with foreign exchange movement. These factors were partially offset by internal model updates.

Operational risk

$ millions, for the year ended October 31	2017	2016
Balance at beginning of year	**$ 21,746**	$ 18,194
Movement in risk levels [1]	**1,227**	1,154
Methodology and policy [2]	**–**	2,398
Acquisitions and disposals	**1,691**	–
Balance at end of year	**$ 24,664**	$ 21,746

(1) Relates to changes in loss experience and business environment and internal control factors.
(2) Relates to regulatory changes implemented on an industry-wide basis (i.e., Basel III) and any capital methodology changes implemented within CIBC for our portfolios.

The increase in operational risk RWAs is primarily driven by the inclusion of the balances of CIBC Bank USA and Geneva Advisors. The movement in risk levels under the advanced measurement approach reflects changes in loss experience, changes in the business environment, internal control factors and gross income, as defined by the BCBS. Methodology and policy updates reflect capital methodology changes implemented within CIBC for our portfolios.

Continuous enhancement to risk-based capital requirements

The BCBS and OSFI have published a number of proposals for changes to the existing risk-based capital requirements to strengthen the regulation, supervision, and practices of banks with the overall objective of enhancing financial stability. Since the start of the fiscal year, the BCBS and OSFI publications have included the proposals discussed below.

In October 2017, the BCBS issued the final guideline on the identification and management of step-in risk, with a proposed implementation timeline of no later than 2020. Step-in risk is the risk that a bank might provide financial support to an unconsolidated entity beyond, or in the absence of, any contractual obligations or equity ties, should the entity experience financial stress. The focus of the guideline is on unconsolidated entities such as securitization conduits, structured investment vehicles, and money market funds. The objective of the guideline is to mitigate this risk through banks' self-assessment and reporting to supervisors, and not by the automatic application of a Pillar I liquidity or capital charge.

In August 2017, OSFI issued for public consultation revisions to the capital adequacy requirements (CAR) Guideline for implementation in the first quarter of 2018. The draft CAR Guideline proposed capital treatment for the expected credit losses accounting framework under IFRS 9 and that domestic implementation of the standardized approach for measuring counterparty credit risk exposures will be required by the first quarter of 2019, subject to confirming the implementation readiness of key foreign market counterparties during 2018. It also indicated that the revised securitization framework is expected to be implemented in the first quarter of 2019.

In July 2017, the BCBS issued the consultative document "Capital treatment for simple, transparent and comparable short-term securitisations", setting out additional guidance and requirements for eligibility to apply preferential regulatory capital treatment for banks that act as investors in, or sponsors of simple, transparent and comparable short-term securitizations. The proposed treatment is consistent with the BCBS' July 2016 revisions to the securitization framework.

In July 2017, OSFI announced that it is extending the Canadian implementation timeline for adoption of the BCBS' market risk framework from the end of 2019 to no earlier than the first quarter of 2021. The date was revised from the BCBS' expected 2019 timeline due to the challenges and uncertainties associated with implementation of the requirements as well as likely delays in implementation by the majority of key foreign jurisdictions.

Prior to this fiscal year, the BCBS and OSFI issued the following publications which have not yet been implemented:

In July 2016, the BCBS published the final standard on capital treatment of securitization exposure titled "Revisions to the securitisation framework". The framework aims to reduce mechanistic reliance on external ratings, increase risk sensitivity, and re-calibrate the risk-weights for certain exposures. It also includes the capital treatment for "simple, transparent and comparable" securitizations.

In April 2016, the BCBS issued the final standard for interest rate risk in the banking book (IRRBB). This standard represents a Pillar 2 supervisory approach, which promotes enhanced disclosures and improves comparability through providing extensive guidance to banks' IRRBB management processes. These rules aim to promote sufficient capital to cover potential losses from exposures to changes in interest rates, and to limit incentives for capital arbitrage between the banking and trading books.

In March 2016, the BCBS issued two consultative papers:

"Reducing variation in credit risk-weighted assets – constraints on the use of internal model approaches" aims to limit the use of IRB approaches and adopt exposure-level, model-parameter floors for certain exposures. The objectives of the proposed changes are to: (i) reduce complexity; (ii) improve comparability; and (iii) address excessive variability in the capital requirements for credit risk.

"Standardised measurement approach for operational risk" proposed further revisions to the operational risk capital frameworks, with the stated objective of providing a balance between simplicity, comparability, and risk sensitivity. A non-model-based standardized measurement approach is proposed to replace the existing standardized approach and AMA. The proposed method combines a financial statement-based measure with past operational losses for the estimation of operational risk capital.

In January 2016, the BCBS published final standards for its market risk framework, which aims to ensure that the standardized and internal model approaches to market risk deliver credible capital outcomes and promote consistent implementation across jurisdictions. The BCBS will require banks to report under the new standards by the end of 2019. OSFI has not yet established a timeline for Canadian banks.

"Revisions to the standardised approach for credit risk" was released in December 2015, with the purpose of reducing variability in RWAs and promoting comparability across banks and jurisdictions. Key changes from the initial paper include the use of external credit ratings and the methodology for risk weighting real estate loans. This consultative document, along with the new standardized approaches to operational and market risk, is designed to complement the capital floors proposal published in December 2014 titled "Capital floors: the design of a framework based on standardized approaches", with the objective of mitigating model risk and measurement errors stemming from internal models, and to address excessive variability in RWA calculations between banks.

In 2014, the BCBS issued the final standard "The standardized approach for measuring counterparty credit risk exposures". The standard includes a comprehensive, non-modelled approach for measuring counterparty credit risk associated with OTC derivatives, exchange-traded derivatives, and long settlement transactions. The new standardized approach replaces the existing Current Exposure Method and the Standardized Method.

CIBC will continue to monitor and prepare for developments impacting risk-based capital requirements.

Basel III leverage ratio

The Basel III capital reforms included a non-risk-based capital metric, the leverage ratio, to supplement risk-based capital requirements.

The leverage ratio is defined as Tier 1 capital divided by the leverage ratio exposure. The leverage ratio exposure is defined under the rules as the sum of:

(i) On-balance sheet assets less Tier 1 capital regulatory adjustments;
(ii) Derivative exposures;
(iii) Securities financing transaction exposures; and
(iv) Off-balance sheet exposures (such as commitments, direct credit substitutes, letters of credit, and securitization exposures).

OSFI expects federally regulated deposit-taking institutions to have leverage ratios that meet or exceed 3.0%. This minimum may be higher for certain institutions at OSFI's discretion.

$ millions, as at October 31		2017	2016
Transitional basis			
Tier 1 capital	A	**$ 25,198**	$ 22,596
Leverage ratio exposure	B	**610,769**	546,136
Leverage ratio	A/B	**4.1 %**	4.1 %
All-in basis			
Tier 1 capital	C	**$ 24,682**	$ 21,666
Leverage ratio exposure	D	**610,353**	545,480
Leverage ratio	C/D	**4.0 %**	4.0 %

Leverage ratio (All-in basis)
The leverage ratio at October 31, 2017 remained unchanged from October 31, 2016 at 4.0%, as an increase in leverage ratio exposure was offset by an increase in Tier 1 capital. The increase in leverage ratio exposure was primarily driven by an increase in on-balance sheet assets primarily resulting from the inclusion of the balances of CIBC Bank USA and an increase in securities financing transaction exposures. The increase in Tier 1 capital was primarily driven by the factors noted in the CET1 capital discussion above, as well as the issuance of preferred shares, partially offset by an increase in the phase-out of non-qualifying Tier 1 capital instruments from Additional Tier 1 capital.

Proposed revisions to leverage ratio framework
In April 2016, the BCBS issued a consultative document "Revisions to the Basel III leverage ratio framework" for comment. At this time, there is no change to the minimum leverage ratio requirement of 3%. However, consideration is being given to additional requirements for global systemically important banks (G-SIBs). Areas subject to proposed changes include measurement for derivative exposures, treatment of regular-way purchases and sales of financial assets, and revisions to credit conversion factors for off-balance sheet items. The implementation date is not known at this point.

Revised Pillar 3 disclosure requirements
In January 2015, the BCBS issued "Revised Pillar 3 disclosure requirements", which set out the first phase of an initiative to replace existing Pillar 3 disclosure requirements for the various types of risk. Pillar 3 aims to promote market discipline through regulatory disclosure requirements, in order to improve comparability and consistency of risk disclosures and increase transparency and confidence about a bank's exposure to risk and the overall adequacy of its regulatory capital.

In April 2017, OSFI released its guidelines confirming expectations for domestic implementation of the BCBS Pillar 3 first phase requirements, with implementation required by the fourth quarter of 2018.

In March 2017, the BCBS released "Pillar 3 disclosure requirements – consolidated and enhanced framework", a standard establishing the second phase of the project. This standard includes enhancements to the January 2015 requirements, the introduction of several new disclosure requirements, and the consolidation of all existing BCBS disclosure requirements into the Pillar 3 framework. The BCBS has also commenced a third phase of its review of Pillar 3. OSFI has not yet released its requirements for the second and third phases.

CIBC will continue to monitor and prepare for developments in this area.

Global systemically important banks – public disclosure requirements
In March 2017, the BCBS released "Global Systemically Important Banks – Revised Assessment Framework", a consultative document proposing revisions to the G-SIB assessment framework, designed to capture new dimensions of systemic risk not included in the current framework. The proposal includes new G-SIB indicators as well as amendments to the definition and potential weighting of existing indicators. The revised assessment methodology is expected to be finalized in 2017 and to become effective for the 2019 G-SIB assessment.

Bank recapitalization (Bail-in) conversion regulations
The overarching policy objective is to strengthen financial stability while protecting taxpayers in the event of a D-SIB failure, and is consistent with the objectives of the Financial Stability Board's rules for Total Loss-Absorbing Capacity (TLAC) applicable to G-SIBs. The bail-in regime is designed to enable the expedient conversion, in whole or in part, of certain bank liabilities (bail-in debt) into common equity, thus ensuring that the D-SIB emerges from conversion as adequately capitalized. In June 2016, a legislative framework for a bail-in regime for Canada's D-SIBs received royal assent.

On June 16, 2017, the Department of Finance issued a pre-publication of bail-in regulations. These provide statutory powers to the Canada Deposit Insurance Corporation (CDIC) to enact the bail-in regime including the ability to convert specified eligible shares and liabilities of D-SIBs into common shares in the event such a bank becomes non-viable. OSFI is responsible for designating D-SIBs, setting minimum bail-in/TLAC requirements, and determining that a bank is non-viable. In line with previous consultations, liabilities subject to bail-in are unsecured and tradable liabilities with original term to maturity of more than 400 days. Consumer deposits, derivatives and structured notes would not be eligible for bail-in. The regulations become effective 180 days after the regulations are registered.

In conjunction with the pre-publication of bail-in regulations, OSFI issued draft guidelines on TLAC for Canada's D-SIBs and holdings of TLAC instruments for public consultation. OSFI's TLAC guideline requires D-SIBs to maintain a minimum of 21.5% of TLAC-eligible instruments[1] relative to their RWAs and 6.75% relative to their leverage exposures. In addition, D-SIBs will be expected to hold buffers above the minimum TLAC ratios. TLAC-eligible liabilities must satisfy all of the requirements set out in the bail-in regulations and have a residual maturity greater than 365 days, among other requirements. The minimum TLAC requirements are proposed to be effective in fiscal 2022.

OSFI's TLAC holdings proposal is in line with the BCBS' TLAC holdings standard finalized in October 2016. Under the draft guideline, our investment in other G-SIBs' and Canadian D-SIBs' TLAC instruments are to be deducted from our own Tier 2 capital if our aggregate holdings, together with investments in capital instruments of other financial institutions, exceeds certain thresholds in relation to our own CET1 capital.

(1) The sum of a D-SIB's TLAC, subject to certain adjustments, including Tier 1 capital, Tier 2 capital, and prescribed shares and liabilities that are subject to conversion into common shares and meet the eligibility criteria set out in OSFI's TLAC draft guideline.

Capital management and planning

Basel establishes a framework for a bank's Internal Capital Adequacy Assessment Process (ICAAP), which includes oversight by the CIBC Board of Directors (the Board). Our capital management policy is reviewed and approved by the Board in support of the ICAAP. The policy includes a set of guiding principles that relate to capital strength, capital mix, dividends and return of capital, and unconsolidated capital adequacy of regulated entities, based on regulatory requirements and our risk appetite. The key guidelines relate to capital strength and mix – the former being the overriding guideline, while the latter specifically relates to maintaining a cost effective capital structure. CIBC's guideline on dividends and return of capital is intended to balance the need for retaining capital for strength and growth, while providing an adequate return to our shareholders.

The level of capital is continually monitored relative to our regulatory minimums and internal targets and the amount of capital required may change in relation to CIBC's business growth, risk appetite, and business and regulatory environment, including changes in accounting policies. Capital planning is a crucial element of our overall financial planning and establishment of strategic objectives, and is developed in accordance with the capital management policy. Each year, a Capital Plan and three-year outlook are developed, which encompass all of the key elements of capital including forecasts of sources and uses, maturities, redemptions, new issuances, corporate initiatives and business growth. The annual Capital Plan establishes targets for the coming year and business plans to achieve those targets. The Capital Plan also relates the level of capital to our level of risk in a stressed environment as a part of the enterprise-wide stress testing discussed below.

Capital initiatives

The following main capital initiatives were undertaken in 2017:

Normal course issuer bid

On March 10, 2017, we announced that the Toronto Stock Exchange had accepted the notice of CIBC's intention to commence a normal course issuer bid. Purchases under this bid will terminate upon the earlier of: (i) CIBC purchasing up to a maximum of 8 million common shares; (ii) CIBC providing a notice of termination; or (iii) March 13, 2018. No common shares have been purchased under this bid. See Note 15 to the consolidated financial statements for additional information.

Common share issuance pursuant to the acquisition of The PrivateBank

On June 23, 2017, we completed the acquisition of The PrivateBank, and in connection therewith, we issued 32,137,402 CIBC common shares. For further details, see Note 3 and Note 15 to the consolidated financial statements.

Common share issuance pursuant to the acquisition of Geneva Advisors

On August 31, 2017, we completed the acquisition of Geneva Advisors, and in connection therewith, we issued 1,204,344 CIBC common shares. For further details, see Note 3 and Note 15 to the consolidated financial statements.

Shareholder investment plan (the plan)

Effective with the October 28, 2016 dividend, CIBC has elected to issue shares from Treasury to fulfill the requirements of the plan. Pursuant to the plan, we issued 6,870,584 common shares for consideration of $749 million for the year ended October 31, 2017.

Dividends

Our quarterly common share dividend was increased from $1.27 per share to $1.30 per share for the quarter ending October 31, 2017, $1.24 per share to $1.27 per share for the quarter ended April 30, 2017, and $1.21 per share to $1.24 per share for the quarter ended January 31, 2017.

Common and preferred share dividends are declared quarterly at the discretion of the Board. The declaration and payment of dividends is governed by Section 79 of the *Bank Act* (Canada), the terms of the preferred shares, and the terms of the Tier 1 notes issued by CIBC Capital Trust, as explained in Notes 15 and 16 to the consolidated financial statements.

Preferred shares

On June 2, 2017, we issued 32 million Non-cumulative Rate Reset Class A Preferred Shares Series 45 (NVCC) with a par value of $25.00 per share, for gross proceeds of $800 million. See the "Outstanding share data" section below and Note 15 to the consolidated financial statements for further details.

Subordinated indebtedness

During the quarter ended July 31, 2017, we purchased and cancelled $42 million (US$34 million) of our Floating Rate Debenture Notes Due 2084.

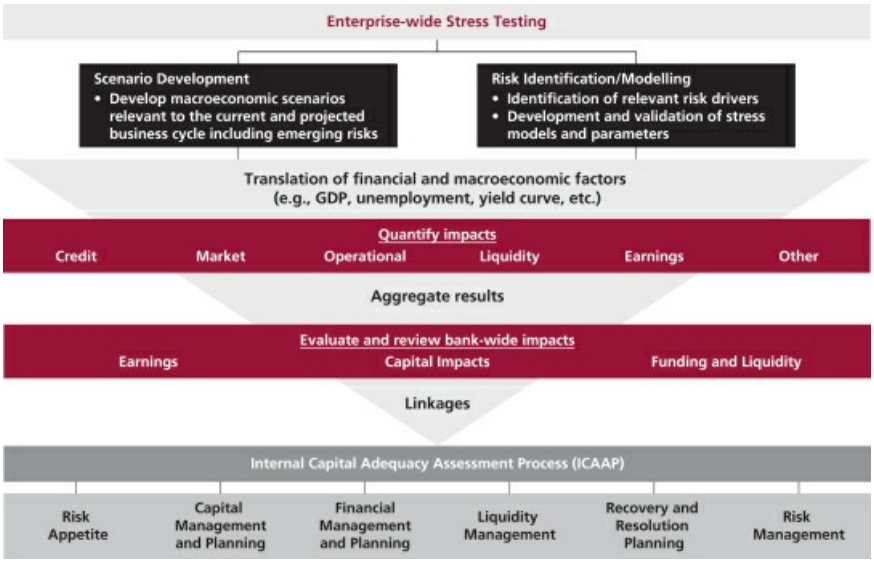
During the quarter ended April 30, 2017, we purchased and cancelled $25 million (US$19 million) of our Floating Rate Debenture Notes Due 2085.

Enterprise-wide stress testing

We perform enterprise-wide stress testing on at least an annual basis and the results are an integral part of our ICAAP, as defined by Pillar II of the Basel III Accord, wherein we identify and measure our risks on an ongoing basis in order to ensure that the capital available is sufficient to cover all risks across CIBC, including the impacts of stress testing. We maintain a process which determines plausible but stressed economic scenarios such as global recessions and housing price shocks, and then apply these stress scenarios to our bank-wide exposures to determine the impact on the consolidated statement of income, RWA requirements, and consequently, key capital ratios. This helps us analyze the potential risks within our portfolios and establish prudent capital levels in excess of the regulatory minimum requirements. All of the elements of capital are monitored throughout the year and the Capital Plan is adjusted as appropriate.

Management determines the range of scenarios to be tested. Macroeconomic stress test scenarios are designed to be both severe and plausible and designed to be consistent with OSFI's stress testing framework to ensure that they are comprehensive.

The following diagram summarizes the enterprise-wide stress testing process including the development of scenarios, identification of risk drivers and linkages to our other bank-wide ICAAP processes. The process includes syndication with our economists and the businesses to ensure scenarios are relevant to our businesses and there is a consistent interpretation of the scenarios across CIBC.



Stress test scenarios are designed to capture a wide range of macroeconomic and financial variables that are relevant to assess the impact on our specific portfolios. This includes, for example, GDP, unemployment, house prices, interest rates and equity prices.

The stress testing process is comprehensive using a bottom-up analysis of each of our bank-wide portfolios, and results are analyzed on a product, location and sector basis. Our stress testing approach combines the use of statistical models and expert judgment to ensure the results are reasonable in estimating the impacts of the stress scenarios.

Stress testing methodologies and results are subject to a detailed review and challenge from both the businesses and Risk Management. Stress testing results are presented for review to the Risk Management Committee and are also shared with the Board and OSFI. The results of our enterprise-wide stress testing are used to highlight any vulnerabilities and ensure we remain well capitalized against regulatory and management constraints.

A key objective of the enterprise-wide stress tests is to identify and foster discussion of management actions that would be taken to mitigate the impact of stress scenarios. Reverse stress testing is also integrated into our recovery and resolution planning process to determine worst case scenarios that would result in CIBC reaching the point of non-viability from which remedial actions are then considered.

Additional information on stress testing is provided in the "Management of risk" section.

Outstanding share data

The table below provides a summary of our outstanding shares, NVCC capital instruments, and the maximum number of common shares issuable on conversion/exercise:

	Shares outstanding		Minimum conversion price per common share	Maximum number of common shares issuable on conversion/exercise
$ millions, except number of shares and per share amounts, as at November 24, 2017	Number of shares	Amount		
Common shares	439,432,245	$ 12,560		
Preferred shares [1][2]				
Series 39 (NVCC)	16,000,000	$ 400	$ 5.00	80,000,000
Series 41 (NVCC)	12,000,000	300	5.00	60,000,000
Series 43 (NVCC)	12,000,000	300	5.00	60,000,000
Series 45 (NVCC)	32,000,000	800	5.00	160,000,000
Treasury shares – preferred shares [1][2]	85,626	$ 2		
Treasury shares – common shares	160,203	$ 19		
Subordinated indebtedness [2][3]				
3.00% Debentures due October 28, 2024 (NVCC)	n/a	1,000	5.00	300,000,000
3.42% Debentures due January 26, 2026 (NVCC)	n/a	1,000	5.00	300,000,000
Stock options outstanding				4,975,774
Total		$ 3,800		960,000,000

(1) Upon the occurrence of a Trigger Event, each share is convertible into a number of common shares, determined by dividing the par value of $25.00 plus declared and unpaid dividends by the average common share price (as defined in the relevant prospectus supplement) subject to a minimum price per share (subject to adjustment in certain events as defined in the relevant prospectus supplement). Preferred shareholders do not have the right to convert their shares into common shares.

(2) The maximum number of common shares issuable on conversion excludes the impact of declared but unpaid dividends and accrued interest.

(3) Upon the occurrence of a Trigger Event, the Debentures are convertible into a number of common shares, determined by dividing 150% of the par value plus accrued and unpaid interest by the average common share price (as defined in the relevant prospectus supplement) subject to a minimum price per common share (subject to adjustment in certain events as defined in the relevant prospectus supplement).

n/a Not applicable.

The occurrence of a "Trigger Event" would result in conversion of all of the outstanding NVCC instruments described above, which would represent a dilution impact of 69% based on the number of CIBC common shares outstanding as at October 31, 2017. As described in the Capital Adequacy Guidelines, a Trigger Event occurs when OSFI determines the bank is or is about to become non-viable and, if after conversion of all contingent instruments and consideration of any other relevant factors or circumstances, it is reasonably likely that its viability will be restored or maintained; or if the bank has accepted or agreed to accept a capital injection or equivalent support from a federal or provincial government, without which OSFI would have determined the bank to be non-viable.

Non-cumulative Rate Reset Class A Preferred Shares Series 39 (NVCC) (Series 39 shares)
For the initial five year period to the earliest redemption date of July 31, 2019, the Series 39 shares pay quarterly cash dividends, if declared, at a rate of 3.90%. On July 31, 2019, and on July 31 every five years thereafter, the dividend rate will reset to be equal to the then current five-year Government of Canada bond yield plus 2.32%.

Holders of the Series 39 shares will have the right to convert their shares on a one-for-one basis into Non-cumulative Floating Rate Class A Preferred Shares Series 40 (NVCC) (Series 40 shares), subject to certain conditions, on July 31, 2019 and on July 31 every five years thereafter. Holders of the Series 40 shares will be entitled to receive a quarterly floating rate dividend, if declared, equal to the three-month Government of Canada Treasury Bill yield plus 2.32%. Holders of the Series 40 shares may convert their shares on a one-for-one basis into Series 39 shares, subject to certain conditions, on July 31, 2024 and on July 31 every five years thereafter.

Subject to regulatory approval and certain provisions of the shares, we may redeem all or any part of the then outstanding Series 39 shares at par on July 31, 2019, and on July 31 every five years thereafter; we may redeem all or any part of the then outstanding Series 40 shares at par on July 31, 2024, and on July 31 every five years thereafter.

Non-cumulative Rate Reset Class A Preferred Shares Series 41 (NVCC) (Series 41 shares)
For the initial five year period to the earliest redemption date of January 31, 2020, the Series 41 shares pay quarterly cash dividends, if declared, at a rate of 3.75%. On January 31, 2020, and on January 31 every five years thereafter, the dividend rate will reset to be equal to the then current five-year Government of Canada bond yield plus 2.24%.

Holders of the Series 41 shares will have the right to convert their shares on a one-for-one basis into Non-cumulative Floating Rate Class A Preferred Shares Series 42 (NVCC) (Series 42 shares), subject to certain conditions, on January 31, 2020 and on January 31 every five years thereafter. Holders of the Series 42 shares will be entitled to receive a quarterly floating rate dividend, if declared, equal to the three-month Government of Canada Treasury Bill yield plus 2.24%. Holders of the Series 42 shares may convert their shares on a one-for-one basis into Series 41 shares, subject to certain conditions, on January 31, 2025 and on January 31 every five years thereafter.

Subject to regulatory approval and certain provisions of the shares, we may redeem all or any part of the then outstanding Series 41 shares at par on January 31, 2020 and on January 31 every five years thereafter; we may redeem all or any part of the then outstanding Series 42 shares at par on January 31, 2025 and on January 31 every five years thereafter.

Non-cumulative Rate Reset Class A Preferred Shares Series 43 (NVCC) (Series 43 shares)
For the initial five year period to the earliest redemption date of July 31, 2020, the Series 43 shares pay quarterly cash dividends, if declared, at a rate of 3.60%. On July 31, 2020, and on July 31 every five years thereafter, the dividend rate will reset to be equal to the then current five-year Government of Canada bond yield plus 2.79%.

Holders of the Series 43 shares will have the right to convert their shares on a one-for-one basis into Non-cumulative Floating Rate Class A Preferred Shares Series 44 (NVCC) (Series 44 shares), subject to certain conditions, on July 31, 2020 and on July 31 every five years thereafter. Holders of the Series 44 shares will be entitled to receive a quarterly floating rate dividend, if declared, equal to the three-month Government of Canada Treasury Bill yield plus 2.79%. Holders of the Series 44 shares may convert their shares on a one-for-one basis into Series 43 shares, subject to certain conditions, on July 31, 2025 and on July 31 every five years thereafter.

Subject to regulatory approval and certain provisions of the shares, we may redeem all or any part of the then outstanding Series 43 shares at par on July 31, 2020 and on July 31 every five years thereafter; we may redeem all or any part of the then outstanding Series 44 shares at par on July 31, 2025 and on July 31 every five years thereafter.

Non-cumulative Rate Reset Class A Preferred Shares Series 45 (NVCC) (Series 45 shares)
For the initial five year period to the earliest redemption date of July 31, 2022, the Series 45 shares pay quarterly cash dividends, if declared, at a rate of 4.40%. On July 31, 2022, and on July 31 every five years thereafter, the dividend rate will reset to be equal to the then current five-year Government of Canada bond yield plus 3.38%.

Holders of the Series 45 shares will have the right to convert their shares on a one-for-one basis into Non-cumulative Floating Rate Class A Preferred Shares Series 46 (NVCC) (Series 46 shares), subject to certain conditions, on July 31, 2022 and on July 31 every five years thereafter. Holders of the Series 46 shares will be entitled to receive a quarterly floating rate dividend, if declared, equal to the three-month Government of Canada Treasury Bill yield plus 3.38%. Holders of the Series 46 shares may convert their shares on a one-for-one basis into Series 45 shares, subject to certain conditions, on July 31, 2027 and on July 31 every five years thereafter.

Subject to regulatory approval and certain provisions of the shares, we may redeem all or any part of the then outstanding Series 45 shares at par on July 31, 2022 and on July 31 every five years thereafter; we may redeem all or any part of the then outstanding Series 46 shares at par on July 31, 2027 and on July 31 every five years thereafter.

Off-balance sheet arrangements

We enter into off-balance sheet arrangements in the normal course of our business. We consolidate all of our sponsored trusts that securitize our own assets with the exception of the commercial mortgage securitization trust.

CIBC-sponsored conduits
We manage and administer a single-seller conduit and several CIBC-sponsored multi-seller conduits in Canada. Our multi-seller conduits acquire direct or indirect ownership or security interests in pools of financial assets from our clients and finance the acquisitions by issuing asset-backed commercial paper (ABCP) to investors. Our single-seller conduit acquires financial assets and finances these acquisitions through a credit facility provided by a syndicate of financial institutions. The sellers to the conduits may continue to service the assets and may be exposed to credit losses realized on these assets, typically through the provision of over-collateralization or another form of retained interest. The conduits may obtain credit enhancement from third-party providers.

We generally provide the multi-seller conduits with commercial paper backstop liquidity facilities, securities distribution, and provide both the single and multi-seller conduits with accounting, cash management, and operations services. The liquidity facilities for our managed and administered multi-seller conduits require us to provide funding, subject to the satisfaction of certain conditions with respect to the conduits, for ABCP not placed with external investors. We may also purchase ABCP issued by our multi-seller conduits for market making purposes.

We are required to maintain certain short-term and/or long-term debt ratings with respect to the liquidity facilities that we provide to our own sponsored multi-seller conduits. If we are downgraded below the level specified under the terms of those facilities, we must provide alternative satisfactory liquidity arrangements, such as procuring an alternative liquidity provider that meets the minimum rating requirements.

We may also act as the counterparty to derivative contracts entered into by a multi-seller conduit in order to convert the yield of the underlying assets to match the needs of the multi-seller conduit's investors or to mitigate the interest rate, basis, and currency risk within the conduit.

We earn fees for providing services related to the non-consolidated single-seller and multi-seller conduits, such as backstop liquidity facilities, distribution, transaction structuring, and conduit administration. These fees totalled $45 million in 2017 (2016: $36 million). All fees earned in respect of activities with the conduits are on a market basis.

As at October 31, 2017, the amount funded for the various asset types in our multi-seller conduits amounted to $5.7 billion (2016: $5.4 billion). The estimated weighted-average life of these assets was 1.7 years (2016: 1.5 years). Our holdings of commercial paper issued by our non-consolidated sponsored multi-seller conduits that offer commercial paper to external investors were nil (2016: $10 million). Our committed backstop liquidity facilities to these conduits were $8.7 billion (2016: $7.2 billion). We also provided credit facilities of $40 million (2016: $40 million) to these conduits.

We participated in a syndicated facility for a three-year commitment of $700 million to our single-seller conduit that provides funding to franchisees of a major Canadian retailer. Our portion of the commitment was $130 million (2016: $130 million). As at October 31, 2017, we funded $94 million (2016: $103 million) through the issuance of bankers' acceptances and prime loans.

We engage one or more of the four major rating agencies, DBRS Limited (DBRS), Fitch, Moody's, and S&P, to opine on the credit ratings of asset-backed securities (ABS) issued by our sponsored securitization vehicles. In the event that ratings differ between rating agencies, we use the lower rating.

Our on- and off-balance sheet amounts related to the structured entities (SEs) that are not consolidated are set out in the table below. For additional details on our SEs, see Note 6 to the consolidated financial statements.

$ millions, as at October 31	**2017**			2016		
	Investments and loans [1]	**Liquidity, credit facilities and commitments**	**Written credit derivatives** [2]	Investments and loans [1]	Liquidity, credit facilities and commitments	Written credit derivatives [2]
Single-seller and multi-seller conduits	**$ 94**	**$ 5,741** [3]	**$ –**	$ 113	$ 5,500 [3]	$ –
Third-party structured vehicles – continuing	**3,025**	**2,259**	**–**	4,647	1,398	–
Structured vehicles run-off	**109**	**13**	**179**	910	28	319
Other	**528**	**94**	**–**	441	75	–

(1) Excludes securities issued by, retained interest in, and derivatives with entities established by CMHC, Federal National Mortgage Association, Federal Home Loan Mortgage Corporation, Government National Mortgage Association, Federal Home Loan Banks, Federal Farm Credit Bank, and Student Loan Marketing Association. $3 million (2016: $536 million) of the exposures related to structured vehicles run-off were hedged.

(2) Disclosed amounts reflect the outstanding notional of written credit derivatives. The negative fair value recorded on the consolidated balance sheet was $148 million (2016: $174 million). Notional of $161 million (2016: $277 million) was hedged with credit derivatives protection from third parties. The fair value of these hedges net of CVA was $130 million (2016: $139 million). An additional notional of $18 million (2016: $36 million) was hedged through a limited recourse note.

(3) Excludes an additional $3.0 billion (2016: $1.8 billion) relating to our backstop liquidity facilities provided to the multi-seller conduits as part of their commitment to fund purchases of additional assets and nil (2016: $10 million) relating to our direct investments in the multi-seller conduits which we consider investment exposure.

Other financial transactions

We are the sponsor of several mutual and pooled funds, in the form of trusts. We are the administrator of these funds. In addition, we may act in other capacities, including custodian, trustee, and broker. We earn fees at market rates from these trusts. We do not guarantee either principal or returns to investors in these funds, except in very limited circumstances. We act as a trustee of a number of personal trusts and have a fiduciary responsibility to act in the best interests of the beneficiaries of the trusts. We earn a fee for acting as a trustee. We also participate in transactions to modify the cash flows of trusts managed by third-party asset managers to create investments with specific risk profiles, or to assist clients in the efficient management of other risks. Typically, these involve the use of derivative products, which transfer the risks and returns to or from a trust.

Derivatives

We participate in derivatives transactions, as a market maker facilitating the needs of our clients or as a principal to manage the risks associated with our funding, investing and trading strategies. All derivatives are recorded at fair value on our consolidated balance sheet. See Notes 12 and 24 to the consolidated financial statements for details on derivative contracts and the risks associated with them.

Credit-related arrangements

Credit-related arrangements are generally off-balance sheet instruments and are typically entered into to meet the financing needs of clients. In addition, there are certain exposures for which we could be obligated to extend credit that are not recorded on the consolidated balance sheet. For additional details of these arrangements, see the "Liquidity risk" section and Note 22 to the consolidated financial statements.

Guarantees

A guarantee is a contract that requires the issuer to make specified payments to reimburse the holder for a loss it incurs because a specified debtor failed to make payment when due in accordance with the original or modified terms of a debt instrument. Guarantees include credit derivatives protection sold and standby and performance letters of credit, as discussed in Notes 12 and 22 to the consolidated financial statements, respectively.

Management of risk

We have provided certain disclosures required under IFRS 7 "Financial Instruments – Disclosures" related to the nature and extent of risks arising from financial instruments in the MD&A, as permitted by that IFRS standard. These disclosures are included in the "Risk overview", "Credit risk", "Market risk", "Liquidity risk", "Operational risk", "Reputation and legal risk", and "Regulatory compliance risk" sections.

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77 Environmental risk

Risk overview

CIBC faces a wide variety of risks across all of its areas of business. Identifying and understanding risks and their impact allows CIBC to frame its risk appetite and risk management practices. Defining acceptable levels of risk, and establishing sound principles, policies and practices for managing risks, is fundamental to achieving consistent and sustainable long-term performance, while remaining within our risk appetite.

Our risk appetite defines tolerance levels for various risks. This is the foundation for our risk management culture and our risk management framework.

Our risk management framework includes:

- CIBC and SBU-level risk appetite statements;
- Risk frameworks, policies, procedures and limits to align activities with our risk appetite;
- Regular risk reports to identify and communicate risk levels;
- An independent control framework to identify and test compliance with key controls;
- Stress testing to consider the potential impact of changes in the business environment on capital, liquidity and earnings;
- Proactive consideration of risk mitigation options in order to optimize results; and
- Oversight through our risk-focused committees and governance structure.

Managing risk is a shared responsibility at CIBC. Business units and risk management professionals work in collaboration to ensure that business strategies and activities are consistent with our risk appetite. CIBC's approach to enterprise-wide risk management aligns with the three lines of defence model:

(i) CIBC's lines of business and functional groups own the risk and are responsible for managing all risks associated with their activities, including identifying, assessing, mitigating and controlling them – this is the first line of defence;

(ii) As the second line of defence, CIBC's Risk Management, and other functional groups are responsible for providing guidance and effective independent oversight and challenge of the enterprise-wide risks inherent in CIBC's business activities; and

(iii) As the third line of defence, CIBC's internal audit function provides an independent assessment of the design and operating effectiveness of risk management controls, processes and systems.

We continuously monitor our risk profile against our defined risk appetite and related limits, taking action as needed to maintain an appropriate balance of risk and return. Monitoring our risk profile includes forward-looking analysis of sensitivity to local and global market factors, economic conditions, and political and regulatory environments that influence our overall risk profile.

Regular and transparent risk reporting and discussion at senior management committees facilitates communication of risks and discussion of risk management strategies across the organization.

Risk governance structure

Our risk governance structure is illustrated below:



Board of Directors (the Board): The Board oversees the enterprise-wide risk management program through approval of our risk appetite and supporting risk management policies and limits. The Board accomplishes its mandate through its Audit, Risk Management, Management Resources and Compensation, and Corporate Governance committees, described below.

Audit Committee: The Audit Committee reviews the overall design and operating effectiveness of internal controls and the control environment, including controls over the risk management process.

Risk Management Committee (RMC): This committee assists the Board in fulfilling its responsibilities for defining CIBC's risk appetite and overseeing CIBC's risk profile and performance against the defined risk appetite. This includes oversight of policies, procedures and limits related to the identification, measurement, monitoring and controlling of CIBC's principal business risks.

Management Resources and Compensation Committee (MRCC): This committee is responsible for assisting the Board in fulfilling its governance and supervisory responsibilities for strategic oversight of CIBC's human capital. This encompasses talent strategy, succession planning and total rewards; and their alignment with CIBC's strategy of building a strong, innovative and relationship-oriented bank, its risk appetite and control framework.

Corporate Governance Committee (CGC): The primary function of the CGC is to assist the Board in fulfilling its corporate governance oversight responsibilities.

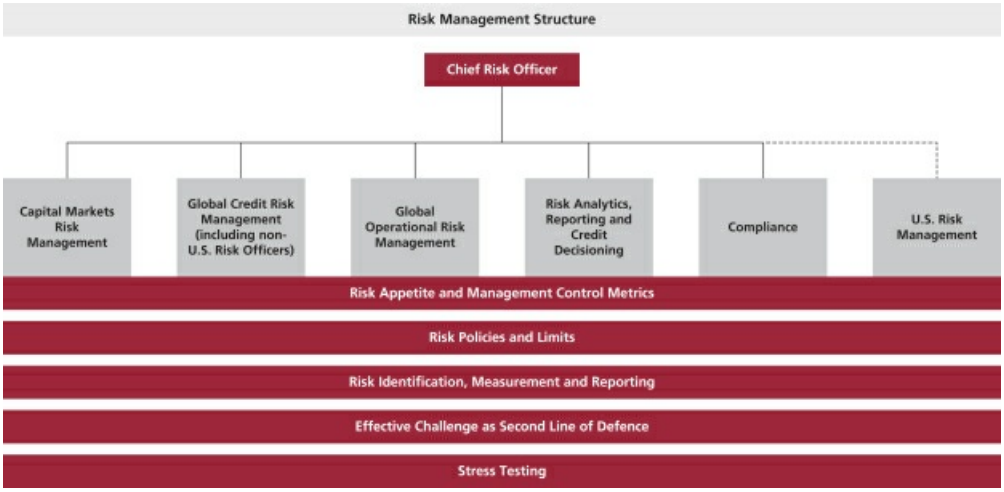
Executive Committee (ExCo): The ExCo, led by the CEO and including the executives reporting directly to the CEO, is responsible for setting business strategy and for monitoring, evaluating and managing risks across CIBC. The ExCo is supported by the following committees:

- *Global Asset Liability Committee (GALCO):* This committee, which comprises members from the ExCo and senior Treasury and Risk Management executives, provides oversight regarding capital management, funding and liquidity management, and asset liability management. It also provides strategic direction regarding structural interest rate risk and structural foreign exchange risk postures, approval of funds transfer pricing policies/parameters and approval of wholesale funding plans. GALCO is supported by four subcommittees – Liquidity Risk Management Committee, Asset Liability Management Committee, Balance Sheet Resource Committee, and Funds Transfer Pricing Committee – that are composed of senior executives with business and oversight responsibilities for the respective activities.
- *Global Risk Committee (GRC):* This committee, which comprises the ExCo and senior leaders from the lines of business, Risk Management and other functional groups, provides a forum for discussion and oversight of risk appetite, risk profile and risk-mitigation strategies. Key activities include reviewing, and providing input regarding CIBC's risk appetite statements; monitoring risk profile against risk appetite, reviewing, and evaluating business activities in the context of risk appetite; and identifying, reviewing, and advising on current and emerging risk issues and associated mitigation plans.

Risk management structure

The Risk Management group, led by our Chief Risk Officer (CRO), is responsible for setting risk strategies and for providing independent oversight of the businesses. Risk Management works to identify, assess, mitigate, monitor and control the risks associated with business activities and strategies, and is responsible for providing an effective challenge to the lines of business.

The current structure is illustrated below:



The Risk Management group performs several important activities including:

- Developing CIBC's risk appetite and associated management control metrics;
- Setting risk strategy to manage risks in alignment with our risk appetite and business strategy;
- Establishing and communicating risk policies, procedures and limits to control risks in alignment with risk strategy;
- Measuring, monitoring and reporting on risk levels;
- Identifying and assessing emerging and potential strategic risks;
- Deciding on transactions that fall outside of risk limits delegated to business lines; and
- Ensuring compliance with applicable regulatory and anti-money laundering requirements.

The following key groups within Risk Management, independent of the originating businesses, contribute to our management of risk:

- *Capital Markets Risk Management* – This group provides independent oversight of the measurement, monitoring and control of market risks (both trading and non-trading), and trading credit risk (also called counterparty credit risk) across CIBC's portfolios, and effective challenge and sound risk management oversight to the treasury/liquidity management function within CIBC.
- *Global Credit Risk Management* – This group is responsible for the adjudication and oversight of credit risks associated with our commercial, wholesale and wealth management activities, management of the risks in our investment portfolios, as well as management of special loan portfolios.
- *Global Operational Risk Management* – This group develops the systems and tools to facilitate the identification of operational risks, and has global accountability for the measurement and monitoring of all operational risk types.
- *Risk Analytics, Reporting and Credit Decisioning* – This group is responsible for enterprise-wide analysis, including enterprise-wide stress testing and reporting, risk policy and governance, risk systems and models, recovery and resolution planning, as well as economic and regulatory capital methodologies. In addition, this group manages credit risk in personal and small business products offered through the various distribution channels (residential mortgages, credit cards, personal loans/lines of credit, small business loans) and performs analytics to optimize retail credit performance, along with collections, fraud, and anti-money laundering outcomes.
- *Compliance* – This group provides timely and proactive advice and independent oversight of CIBC's compliance with applicable regulatory and anti-money laundering requirements.
- *U.S. Risk Management* – This group carries out the mandate of CIBC Risk Management at a regional level under the leadership of the U.S. CRO, with oversight from the U.S. Risk Management Committee and reporting to the Senior Executive Vice-President, U.S. Region. The group provides independent oversight for the identification, management, measurement, monitoring and control of risks in CIBC's U.S. Commercial Banking and Wealth Management SBU. In addition, the CRO also oversees, through a joint oversight structure, the U.S. CRO, to ensure the relevant aspects of the U.S. Risk Management group are consistent with the above-noted practices.

Risk management process

Our risk management process is illustrated below:



Risk appetite statement

CIBC's risk appetite statement defines the amount of risk we are willing to assume in pursuit of our strategic and financial objectives. Our guiding principle is to practice sound risk management, supported by strong capital and funding positions, as we pursue our client-focused strategy. In defining our risk appetite, we take into consideration our vision, values, and strategy, along with our risk capacity (defined by regulatory constraints). It defines how we conduct business, which is to be consistent with the following objectives:

- Safeguarding our reputation and brand;
- Doing the right thing for our clients/stakeholders;
- Engaging in client-oriented businesses that we understand;
- Maintaining a balance between risk and returns;
- Retaining a prudent attitude towards tail and event risk;
- Meeting regulatory expectations and/or identifying and having plans in place to address any issues in a timely manner; and
- Achieving/maintaining an AA rating.

Our CIBC risk appetite statement contains metrics with limits that define our risk tolerance levels. In addition, we have SBU risk appetite statements that are integrated with the overall CIBC risk appetite statement that further articulate our business level risk tolerances.

Our CIBC risk appetite statement is reviewed annually in conjunction with our strategic, financial and capital planning cycle to ensure alignment and is approved annually by the Board. To help ensure CIBC stays within its risk appetite, the Board, RMC, and senior management regularly receive and review reporting on our risk profile against the risk appetite limits.

All strategic business decisions, as well as day-to-day business decisions, are governed by our risk appetite framework. Strategic decisions are evaluated to ensure that the risk exposure is within our risk appetite. Day-to-day activities and decisions are governed by our framework of risk tolerance limits, policies, standards and procedures that support our risk appetite statement.

Risk culture

Risk culture refers to desired attitudes and behaviours relative to risk taking. At CIBC, we strive to achieve a consistent and effective risk culture by:

- Promoting, through both formal and informal channels, a shared accountability of risk identification, management and mitigation;
- Cultivating an environment of transparency, open communication and robust discussion of risk;
- Setting the appropriate "tone at the top" through clear communication and reinforcement; and
- Identifying behaviours that are and are not aligned with risk appetite, and reinforce appropriate behaviours.

Every year, all employees are required to complete formal training on risk appetite, reputation risk, operational risk, code of conduct, anti-money laundering and other key risk topics. By taking this mandatory training, all employees develop a basic knowledge of risk management in support of our risk culture. This training is supplemented by our risk appetite statement, risk management priorities, documents on our internal website and internal news releases. In addition, we have policies, procedures and limits in place that govern our day-to-day business activity, with escalation procedures for limit breaches outlined accordingly.

Risk input into performance and compensation

At each year end, Risk Management provides an assessment of adherence to risk appetite and material risk matters across CIBC. Risk Management also considers a number of risk inputs to identify matters which may directly impact individual compensation awards and/or performance ratings.

The MRCC oversees the performance management and compensation process. The MRCC is responsible for assisting the Board in fulfilling its governance and supervisory responsibilities for the strategic oversight of CIBC's human capital and overseeing CIBC's compensation policies, processes and practices. The MRCC's key compensation-related responsibilities include:

- Approving CIBC's compensation philosophy and any material changes to CIBC's compensation principles or practices;
- Approving new material compensation policies and changes to existing material compensation policies;
- Reviewing and recommending for Board approval new material compensation plans or changes to existing material plans;
- Assessing the appropriateness and alignment of compensation relative to actual business performance and risks;

- Reviewing and recommending for Board approval incentive compensation funding and allocations, based on an assessment of business performance and risk;
- Reviewing and recommending for Board approval individual compensation for the ExCo and other key officers; and
- Approving individual compensation for employees with total direct compensation above a certain materiality threshold.

Risk policies and limits

Our risk policies and limits framework is intended to ensure that risks are appropriately identified, measured, monitored and controlled in accordance with our risk appetite. For most risks, we have developed an overarching framework document that sets out the key principles for managing the associated risks and our key risk policies and limits. This framework is supported by standards, guidelines, processes, procedures and controls that govern day-to-day activities in our businesses. Oversight is provided by management committees, as well as the Board/Board Committees.

Key risk policies and limits are illustrated below:

Enterprise-wide Risk Management Framework

Risk Appetite Statement and Risk Appetite Framework

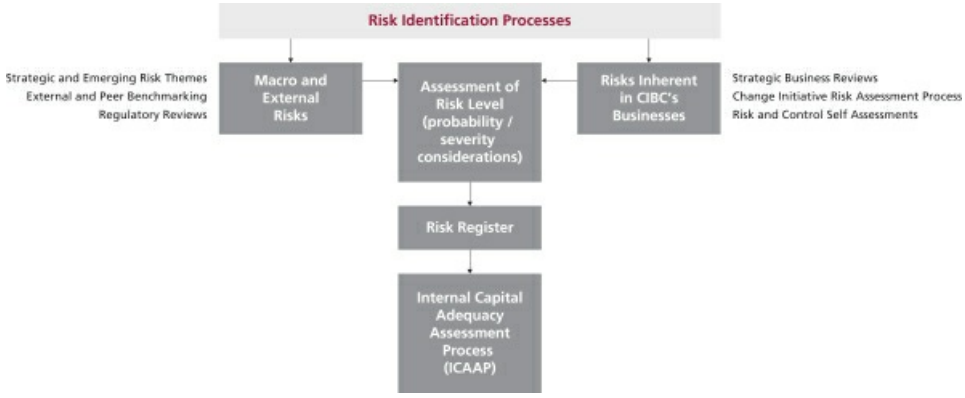
Risk	Overarching Framework / Policy	Risk Limits	Management Oversight
Credit	Credit Risk Management Policy	Credit Concentration Limits Delegated Credit Approval Authorities	Credit Committees Global Risk Committee
Market	Capital Markets Risk Management Policies Structural Risk Management Policy	Market Risk Limits Delegated Risk Authorities	Capital Markets Authorized Products Committee Global Risk Committee Global Asset Liability Committee
Operational	Operational Risk Management Policy Control Framework	Key Risk Indicators	Operational Risk and Control Committee Global Risk Committee
Reputation	Reputation Risk Management Framework and Policy	Key Risk Indicators	Reputation and Legal Risks Committee
Liquidity	Liquidity Risk Management Policy Pledging Policy	Liquidity and Funding Limits Pledging Limits	Global Asset Liability Committee Global Risk Committee
Strategic	Strategic Planning Policy	Risk Appetite Statement	Executive Committee
Regulatory	Regulatory Compliance Management Policy	Key Risk Indicators	Global Risk Committee

Risk identification and measurement

Risk identification and measurement are important elements of our risk management framework. Risk identification is a continuous process, generally achieved through:

- Regular assessment of risks associated with lending and trading credit exposures;
- Ongoing monitoring of trading and non-trading portfolios;
- Assessment of risks in new business activities and processes;
- Assessment of risks in complex and unusual business transactions; and
- Regular monitoring of the overall risk profile considering market developments and trends, and external and internal events.

Risk Management has developed a "Risk Register" to list all material risks facing CIBC. The inventory is based on the risks inherent in CIBC's businesses and updated through various processes, illustrated in the following chart, to reflect changes in the nature of the risks we are facing. The Risk Register is used as an input for our ICAAP, either explicitly in the economic and regulatory capital calculations, or implicitly through the buffer of actual capital over economic capital and regulatory capital.



The decision to register a new risk is based on a risk assessment through our risk identification processes and includes criteria such as materiality, measurability and probability. Furthermore, the decision to hold capital for a new risk is also based on whether the risk is being mitigated, and whether capital is deemed to be a suitable mitigant.

We have enterprise-wide methodologies, models and techniques in place to measure both the quantitative and qualitative aspects of risks, appropriate for the various types of risks we face. These methodologies, models and techniques are subject to independent assessment and review to ensure that the underlying logic remains sound, that model risks have been identified and managed, that use of the models continues to be appropriate and outputs are valid.

Risk is usually measured in terms of expected loss, unexpected loss, and economic capital.

Expected loss

Expected loss represents the loss that is statistically expected to occur in the normal course of business in a given period of time.

In respect of credit risk, the parameters used to measure expected loss are PD, LGD, and EAD. These parameters are updated regularly and are based on our historical experience and benchmarking of credit exposures.

For trading market risks, VaR is a statistical technique used to measure risk. VaR is an estimate of the loss in market value for a given level of confidence that we would expect to incur in our trading portfolio due to an adverse one-day movement in market rates and prices. We also use stressed VaR to replicate our VaR over a period when relevant market factors are in distress.

For trading credit risks associated with market value based products, we use models to estimate exposure relative to the value of the portfolio of trades with each counterparty, giving consideration to market rates and prices.

Unexpected loss and economic capital

Unexpected loss is the statistical estimate of the amount by which actual losses might exceed expected losses over a specified time horizon, computed at a given confidence level. We use economic capital to estimate the level of capital needed to protect us against unexpected losses. Economic capital allows us to assess performance on a risk-adjusted basis.

We also use techniques such as sensitivity analysis and stress testing to help ensure that the risks remain within our risk appetite and that our capital is adequate to cover those risks. Our stress testing program includes evaluation of the potential effects of various economic and market scenarios on our risk profile, earnings and capital. Refer to the "Capital resources" section for additional details.

Model risk mitigation policies

We have policies, procedures, standards and controls that surround the introduction, independent review, usage and parameter selection of pricing and hedge ratio models, risk models (VaR, economic and regulatory capital), retail credit scoring models (e.g., application and behavioural scorecards), credit models for the calculation of loss severity, and models for monitoring of scorecard performance.

A model review and validation is the independent and ongoing documentary evidence that risk quantification and pricing models, rating or scoring systems and parameters are sound and CIBC can rely on the output. The following procedures provide evidence of this review:

- Review of model documentation;
- Comprehensive, systematic testing of the model implementation with respect to pricing, hedge ratio, and parameter estimation routines (as applicable);
- Replication of the risk quantification process helps determine whether the model implementation is faithful to the model specifications;
- Review of whether the model/parameter concepts and assumptions are appropriate and robust;
- Accuracy testing to assess the calibration and accuracy of the risk components including, for example, the discriminative power of rating systems and the reasonableness of capital parameters;
- Sensitivity testing is conducted to analyze the sensitivity of model/parameter outputs to model/parameter assumptions and key inputs;
- Scenario and stress testing of the model outputs to key inputs;
- Back-testing by comparing actual results with model-generated risk measures;
- Benchmarking to other models and comparable internal and external data;
- Reviewing the internal usage of the model/parameter applications to ensure consistency of application;
- Maintaining an inventory of regulatory models and parameters and reporting their status to the Model and Parameter Risk Committee;
- Maintaining a Risk Register to ensure that all material risks are captured to support the end-to-end validation of ICAAP methods; and
- A comprehensive report that identifies the conditions for valid application of the model and summarizing these findings for the Model and Parameter Risk Committee.

Stress testing
Stress testing supplements our other risk management tools by providing an estimate of tail risk (i.e., low probability, high severity events). Results of stress testing are interpreted in the context of our risk appetite, including metrics for capital adequacy. Enterprise-wide stress testing, capital planning and financial planning processes are integrated for a comprehensive information system. See the "Financial condition" section for detailed discussion on our enterprise-wide stress testing.

Risk treatment/mitigation
Risk treatment/mitigation is the implementation of options for modifying risk levels. CIBC pursues risk mitigation options in order to control its risk profile in the context of risk appetite. CIBC's objective is to proactively consider risk mitigation options in order to optimize results.

Discussions regarding potential risk mitigation strategies are held between Risk Management and the lines of business, and at the GRC or GALCO and at the RMC for governance and oversight, as appropriate. In evaluating possible strategies, considerations include costs and benefits, residual risks (i.e., risks that are retained), secondary risks (i.e., those caused by the risk mitigation actions), and appropriate monitoring and review to track results.

Risk controls
Our risk management framework also includes a comprehensive set of risk controls, designed to ensure that risks are being appropriately identified and managed. Our risk controls are part of CIBC's overall Control Framework, developed based on the Committee of Sponsoring Organizations of the Treadway Commission's (COSO) widely accepted "Internal Control – Integrated Framework". The Control Framework also draws on elements of the OSFI Supervisory Framework and Corporate Governance Guidelines.

The Board, primarily through the RMC, approves certain risk limits and delegates specific transactional approval authorities to the CEO or jointly to the CEO and CRO. The RMC must approve transactions that exceed delegated authorities. Onward delegation of authority to business units is controlled to ensure decision-making authorities are restricted to those individuals with the necessary experience levels. In addition, CIBC has rigorous processes to identify, evaluate and remediate risk control deficiencies in a timely manner. Regular reporting is provided to the RMC to evidence compliance with risk limits. Risk limits and the delegation of authority to the CEO or jointly to the CEO and CRO are reviewed annually by the RMC.

Risk monitoring and reporting
To monitor CIBC's risk profile and facilitate evaluation against the risk appetite statement, a number of measurement metrics have been established, with regular reporting against these metrics provided to the GRC and the RMC. This reporting enables decisions on growth and risk mitigation strategies.

Exposures are also regularly monitored against limits, with escalation protocols for limit excesses, should they occur. Escalation protocols ensure awareness at appropriate levels and facilitate management of excesses that is consistent with our risk appetite.

Regular management reports on each risk type are also prepared to facilitate monitoring and control of risk at a more granular level.

Top and emerging risks
We monitor and review top and emerging risks that may affect our future results, and take action to mitigate potential risks if required. We perform in-depth analyses, which can include stress testing our exposures relative to the risks, and provide updates and related developments to the Board on a regular basis. This section describes the top and emerging risks that we consider to have potential negative implications, as well as regulatory and accounting developments that are material for CIBC.

Technology, information and cyber security risk
Financial institutions like CIBC are evolving their business processes to leverage innovative technologies and the internet to improve client experience and streamline operations. At the same time, cyber threats and the associated financial, reputation and business interruption risks have also increased. CIBC has cyber insurance coverage to help mitigate loss associated with cyber incidents.

These risks continue to be actively managed by us through strategic risk reviews, enterprise-wide technology and information security programs, with the goal of maintaining overall cyber resilience that prevents, detects and responds to threats such as data breaches, malware, unauthorized access and denial-of-service attacks.

Given the importance of electronic financial systems, including secure online and mobile banking provided by CIBC to its clients, CIBC continues to develop controls and processes to protect our systems and client information from damage and unauthorized disclosure. CIBC monitors the changing environment globally, including cyber threats, evolving regulatory requirements, and mitigation strategies. In addition, we continually perform cyber security preparedness and testing exercises to validate our defences, benchmark against best practices and provide regular updates to the Board.

Despite our commitment to information and cyber security, CIBC and its related third parties may not be able to fully mitigate all risks associated with the increased complexity and high rate of change in the threat landscape. However, CIBC continuously monitors its risk posture for changes and continues to refine security protection approaches to minimize the impact of any incidents that may occur.

Disintermediation risk
Canadian banking clients are increasingly shifting their service transactions from branches to digital platforms. As such, competitive pressure from digital disruptors, both global technology leaders and smaller financial technology entrants, is increasing and the risk of disintermediation is growing due to the level of sophistication of these non-traditional competitors.

CIBC manages disintermediation risk through strategic risk reviews as well as investment in emerging channels, in data and analytics capabilities, and in technology and innovation in general, to meet our clients' changing expectations, while working to reduce our cost structure and simplify operations.

Geo-political risk
The level of geo-political risk escalates at certain points in time. While the specific impact on the global economy and on global credit and capital markets would depend on the nature of the event, in general, any major event could result in instability and volatility, leading to widening spreads, declining equity valuations, flight to safe-haven currencies and increased purchases of gold. In the short run, market shocks could hurt the net income of our trading and non-trading market risk positions. Although Canada is unlikely to be directly subject to geo-political risk, the indirect impact of reduced economic growth, as well as potential impacts on commodity prices and the recent rise of protectionism, could have serious negative implications for general economic and banking activities.

Currently, there are several areas of concern which have raised the level of uncertainty in global financial markets. These include tensions between the U.S. and North Korea, the volatile situation in the Middle East, and uncertainties surrounding the North American Free Trade Agreement (NAFTA) and Brexit negotiations. While it is impossible to predict where new geo-political disruption will occur, we do pay particular attention to markets and regions

with existing or recent historical instability to assess the impact of these environments on the markets and businesses in which we operate.

The administration in the U.S. continues to pose economic policy uncertainties that could either add or subtract to Canadian economic activity. The downside risks would be associated with an increase in protectionism that does not exempt duties on Canadian goods and services, as well as heightened competition for business investment if the U.S. eases up on corporate taxes and regulations. There could also be positive implications for Canada if U.S. growth accelerates due to fiscal stimulus. While the governments of Canada, the U.S. and Mexico recently held discussions relating to NAFTA, with a view to renegotiating specific terms of the agreement, the outcome remains uncertain. We will monitor these developments as details emerge.

Canadian consumer debt and the housing market

As a consequence of historically low interest rates, Canadians have increased debt levels at a pace that has exceeded growth in their income. Most of the increase in household debt levels has been driven by higher levels of mortgage debt, which is tied to the Canadian housing market. The Bank of Canada's recent and potential increases in interest rates can be viewed in concert with measures that OSFI, the Department of Finance and provincial governments are delivering (e.g., tax on foreign ownership, revised mortgage underwriting guidelines) to slow down borrowing and calm the housing market.

Currently, we qualify variable rate mortgage borrowers using the Bank of Canada five-year fixed benchmark rate, which is typically higher than the variable rate by approximately two percentage points. Therefore, our variable rate borrowers should be able to withstand some increase in interest rates. OSFI recently revised its B-20 rules on mortgage lending. See the "Credit risk" section for further details. While we believe that the probability of a severe housing crash that generates significant losses for mortgage portfolios remains low, increases in rates and new measures put in place elevate the risk associated with an inflated housing market, along with high levels of consumer debt that would be a concern should the economy falter and unemployment rates begin to increase.

In addition, we run our enterprise-wide statistical stress tests at lower home prices to determine potential direct losses, and have also conducted stress tests to assess the impact of rising unemployment rates on borrowers' ability to repay loan obligations.

Acquisition risk

CIBC seeks out acquisition opportunities which align with its strategies, risk appetite and financial goals. The ability to successfully execute these strategies to integrate acquisitions, and the ability to anticipate and manage risks associated with them, are subject to certain factors. These include receiving regulatory and shareholder approval on a timely basis and on favourable terms, retaining clients and key personnel, realizing synergies and efficiencies, controlling integration and acquisition costs, among others, and changes in general business and economic conditions.

Although many of the factors are beyond CIBC's control, their impact is partially mitigated by conducting due diligence before completing the transaction, developing and executing appropriate integration plans, and monitoring performance following the acquisition. However, acquisitions involve inherent uncertainty and we cannot determine all potential events, facts and circumstances and there could be an adverse impact on CIBC's operations and financial performance.

U.S. banking regulation

In conjunction with our acquisition of The PrivateBank (subsequently rebranded as CIBC Bank USA), completed on June 23, 2017, our wholly-owned subsidiary, CIBC Bancorp USA Inc. (CIBC Bancorp; formerly CIBC Holdco Inc.), became a bank holding company registered under the U.S. Bank Holding Company Act of 1956, as amended, and is subject to regulation as a bank holding company by the U.S. Board of Governors of the Federal Reserve System (Federal Reserve). CIBC Bank USA, as a state-chartered bank with greater than $10 billion of total assets, is subject to regulation by the U.S. Federal Deposit Insurance Corporation (FDIC), the U.S. Consumer Financial Protection Board (CFPB), and the Illinois Department of Financial and Professional Regulation.

The scope of these regulations could impact our business in a number of ways. For example, both CIBC Bancorp and CIBC Bank USA are required to maintain minimum capital ratios in accordance with Basel III rules adopted by the U.S. bank regulatory agencies, which differ in some respects from Canada's Basel III rules. Under the U.S. bank regulatory framework, both CIBC and CIBC Bancorp are expected to provide a source of strength to the subsidiary bank and may be required to commit additional capital and other resources to CIBC Bank USA in the event that its financial condition were to deteriorate, whether due to overall challenging economic conditions in the U.S., or because of business-specific issues. The Federal Reserve and the FDIC also have the ability to restrict dividends paid by CIBC Bancorp or CIBC Bank USA, which could limit our ability to receive distributions on our capital investment in our U.S. banking operations.

Furthermore, the Federal Reserve and the FDIC could also place limits on our ability to grow our U.S. banking operation, whether through acquisitions or organically, if, among other things, they have supervisory concerns about risk management or compliance practices at CIBC Bancorp or CIBC Bank USA. In addition, the CFPB has been active in recent years in pursuing enforcement actions and imposing fines against U.S. financial institutions for violations of federal consumer protection laws.

Commodity prices

The global growth upturn in 2017 has led to increased commodity prices, although they continue to experience a high degree of fluctuation. Growing geo-political tensions in the Middle East have also provided support to the rally in oil prices.

So far, our overall commodity exposure continues to perform within our risk appetite, with losses in our oil and gas portfolio down significantly. Clients in our oil and gas portfolio are currently being assessed on the basis of our enhanced risk metrics, and our portfolio is being monitored in a prudent manner. We have run our enterprise statistical stress tests at lower oil prices to determine potential direct losses, and have also conducted stress tests to assess the secondary impacts of lower oil prices on our retail portfolio for the affected regions, where we could see higher losses if unemployment trends negatively.

China economic policy risk

While meeting the government-set quarterly targets, China's economy continues to be on a relatively slower growth trajectory as, in addition to cyclical factors, the country tries to rebalance growth from an export-oriented and investment-driven performance to a more sustainable service-oriented and consumption-driven economy. Concerns have been raised regarding high rates of credit growth in the Chinese economy and the potential for disruption in economic growth if credit quality deteriorates or credit access is tightened sharply. The capital controls deployed by the People's Bank of China late last year which were designed to slow capital outflows remain in place and are believed to be having an impact on Canadian cities such as Vancouver and Toronto, where foreign purchasers have contributed to the sharp rise in house prices over recent years. These capital controls could also slow the market in Canada for mergers and acquisitions.

We continue to monitor economic policy both within the country and the region for signs of stress or directional change, and have taken a prudent stance in addressing our tolerance for exposure to the country. We currently have little direct exposure to China, but any negative impact from the Chinese economic slowdown could affect clients that export to China or sell into a market where prices have been pushed down by weakness in Chinese demand, and could raise the credit risk associated with our exposure to trading counterparties.

Anti-money laundering

Recognizing the threat of money laundering, terrorist financing activities and other related crimes to the stability and integrity of a country's financial sector and its broader economy, the international community has made the fight against these illegal activities a priority. Several laws and regulations have been enacted by governments and regulatory bodies globally. As a potential conduit for illegal operations, financial institutions bear a significant responsibility in mitigating the risks associated with these activities.

CIBC is committed to adhering to all regulatory requirements pertaining to Anti-Money Laundering (AML) and Anti-Terrorist Financing (ATF) and implementing best practices to minimize the impact of such activities. As such, CIBC has implemented procedures to ensure that relevant regulatory obligations with respect to the reporting of large cash transactions, electronic funds transfers, and cross-border movements of cash and monetary instruments, are met in each jurisdiction. In addition, all employees are required to complete CIBC's AML/ATF training annually.

Environmental risks and pandemic outbreaks

A number of environmental events have occurred over the past several years, including hurricanes, tsunamis, earthquakes, wildfires, droughts and floods, oil spills, and industrial accidents. There is also concern that the outbreak of certain illnesses could have the potential to reach pandemic levels. In addition to the humanitarian impact, these phenomena, along with the potential impact of climate change, introduce uncertainty and pose risks to the global economy, as well as our clients and our operations.

CIBC monitors these events and has measures in place including disaster recovery, insurance and business continuity programs, to ensure client needs continue to be met.

Regulatory developments

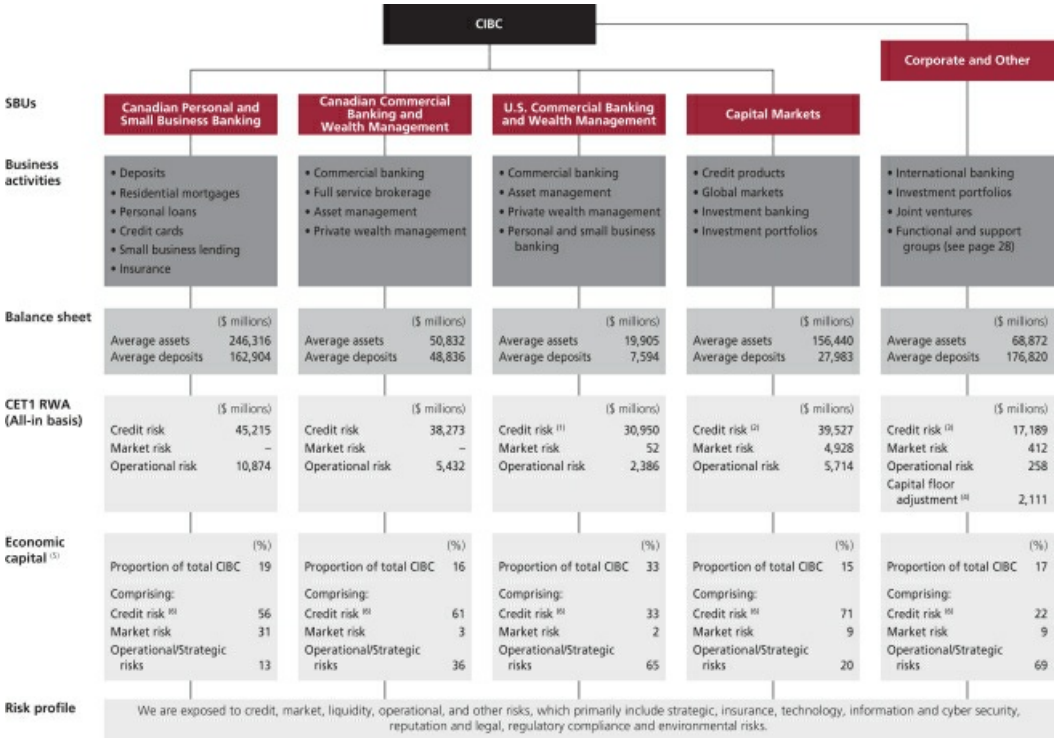
See the "Taxes", "Capital resources", "Credit risk", "Liquidity risk" and "Accounting and control matters" sections for additional information on regulatory developments.

Accounting developments

See the "Accounting and control matters" section and Note 32 to the consolidated financial statements for additional information on accounting developments.

Risks arising from business activities

The chart below shows our business activities and related risk measures based upon regulatory RWAs and economic capital as at October 31, 2017:



(1) Includes counterparty credit risk of $105 million, which comprises derivatives and repo-style transactions.
(2) Includes counterparty credit risk of $9,448 million, which comprises derivatives and repo-style transactions.
(3) Includes counterparty credit risk of $572 million, which comprises derivatives and repo-style transactions.
(4) Since the introduction of Basel II in 2008, OSFI has prescribed a capital floor requirement for institutions that use the AIRB approach for credit risk. The capital floor is determined by comparing a capital requirement under Basel I and Basel III, as specified by OSFI. Any shortfall in the Basel III capital requirement compared with the Basel I requirement is added to the RWAs. All-in RWAs as at October 31, 2017 include a capital floor adjustment.
(5) For additional information, see the "Non-GAAP measures" section.
(6) Includes investment risk.

Credit risk

Credit risk is the risk of financial loss due to a borrower or counterparty failing to meet its obligations in accordance with contractual terms.

Credit risk arises out of the lending businesses in each of our SBUs. Other sources of credit risk include our trading activities, including our OTC derivatives, debt securities, and our repo-style transaction activity. In addition to losses on the default of a borrower or counterparty, unrealized gains or losses may occur due to changes in the credit spread of the counterparty, which could impact the carrying or fair value of our assets.

Governance and management

Credit risk is managed through the three lines of defence model. Frontline businesses own the risks and are responsible for identifying and assessing risks inherent in line of business activities, establishing controls to mitigate those risks, and ensuring the ongoing design and operating effectiveness of controls – this is the first line of defence.

The second line of defence is Risk Management and other functional groups, which provide guidance and effective independent challenge of the adjudication and oversight of credit risks associated with CIBC's commercial, wholesale and wealth management activities, as well as risk assessments and decisions for the first line of defence.

Internal Audit provides the third line of defence, by providing reasonable assurance on the effectiveness of governance practices, risk management processes and internal controls.

Senior management reports to the GRC and RMC at least quarterly on material credit risk matters, including material credit transactions, compliance with limits, portfolio trends, impaired loans and credit loss provisioning levels. Provision for credit losses is reviewed by the RMC and the Audit Committee quarterly.

Specific to the management of credit risk, Risk Management is mandated to provide enterprise-wide oversight of the management of credit risk in CIBC's credit portfolios, including the measurement, monitoring and control of credit risk. Key groups in Risk Management with credit risk responsibility include:

Capital Markets Risk Management: This group is responsible for independent oversight of trading credit risk, including adjudication of trading credit facilities for non-bank financial institutions where the client has no other credit relationship with CIBC. In addition, Capital Markets Risk Management is responsible for managing the country risk rating and the country exposure limits processes.

Global Credit Risk Management: This group is responsible for the adjudication and oversight of credit risks associated with CIBC's commercial, wholesale and wealth management activities, management of the risks in CIBC's investment portfolios, as well as management of special loan portfolios. This excludes adjudication of some non-bank financial entities, prime brokerage clients and central clearing counterparties trading credit risks where the client has no other credit relationship – adjudication and oversight for these credits is managed by Capital Markets Risk Management.

Risk Analytics, Reporting and Credit Decisioning: This group manages credit risk in personal and small business products offered through the various distribution channels (residential mortgages, credit cards, personal loans/lines of credit, small business loans) and performs analytics to optimize retail credit performance, along with collections, fraud, and anti-money laundering outcomes.

U.S. Risk Management: This group carries out the mandate of CIBC Risk Management at a regional level and provides independent oversight of the identification, management, measurement, monitoring and control of risks in the U.S. Commercial Banking and Wealth Management SBU.

Adjudication and oversight above delegated levels is provided by the CRO, GRC and RMC.

Policies

To control credit risk, prudent credit risk management principles are used as a base to establish policies, standards and guidelines that govern credit activities as outlined by the credit risk management policy.

The credit risk management policy supplements CIBC's risk management framework and risk appetite framework, and together with CIBC's portfolio concentration limits for credit exposures, CIBC's common risk/concentration risk limits for credit exposures, and other supporting credit risk policies, standards and procedures, assists CIBC in achieving its desired risk profile by providing an effective foundation for the management of credit risk.

Credit risk limits

The RMC approves Board limits, and exposures above Board limits require reporting to, or approval of, the RMC. Management limits are approved by the CRO. Usage is monitored to ensure risks are within allocated management and Board limits. Exposures above management limits require the approval of the CRO. Business lines may also impose lower limits to reflect the nature of their exposures and target markets. This tiering of limits provides for an appropriate hierarchy of decision making and reporting between management and the RMC. Credit approval authority flows from the Board and is further cascaded to officers in writing. The Board's Investment and Lending Authority Resolution sets thresholds above which credits require reporting to, or approval of, the RMC, ensuring an increasing level of oversight for credits of higher risk. CIBC maintains country limits to control exposures within countries outside of Canada and the United States.

Credit concentration limits

At a bank-wide level, credit exposures are managed to promote alignment to our risk appetite statement, to maintain the target business mix and to ensure that there is no undue concentration of risk. We set limits to control borrower concentrations by risk-rating band for large exposures (i.e., risk-rated credits). Direct loan sales, credit derivative hedges, or structured transactions may also be used to reduce concentrations. We also have a set of portfolio concentration limits in place to control exposures by country, industry, product and activity. Further, our policies require limits to be established as appropriate for new initiatives and implementation of strategies involving material levels of credit risk. Concentration limits represent the maximum exposure levels we wish to hold on our books. In the normal course, it is expected that exposures will be held at levels below the maximums. The credit concentration limits are reviewed and approved by the RMC at least annually.

Credit concentration limits are also applied to our retail lending portfolios to mitigate concentration risk. We not only have concentration limits to individual borrowers and geographic regions, but also to different types of credit facilities, such as unsecured credits, rental occupancy purpose credits, condominium secured credits and mortgages with a second or third charge where we are behind another lender. In addition, we limit the maximum insured mortgage exposure to private insurers in order to reduce counterparty risk.

Credit risk mitigation

We may mitigate credit risk by obtaining a pledge of collateral, which improves recoveries in the event of a default. Our credit risk management policies include verification of the collateral and its value and ensuring that we have legal certainty with respect to the assets pledged. Valuations are updated periodically depending on the nature of the collateral, legal environment, and the creditworthiness of the counterparty. The main types of collateral include: (i) cash or marketable securities for securities lending and repurchase transactions; (ii) cash or marketable securities taken as collateral in support of our OTC derivatives activity; (iii) charges over operating assets such as inventory, receivables and real estate properties for lending to small business and commercial borrowers; and (iv) mortgages over residential properties for retail lending.

In certain circumstances we may use third-party guarantees to mitigate risk. We also obtain insurance to reduce the risk in our real estate secured lending portfolios, the most material of which relates to the portion of our residential mortgage portfolio that is insured by CMHC, an agency of the Government of Canada.

We mitigate the trading credit risk of OTC derivatives with counterparties by employing the International Swaps and Derivatives Association (ISDA) Master Agreement, as well as Credit Support Annexes (CSAs) or similar agreements. See Note 12 to the consolidated financial statements for additional details on the risks related to the use of derivatives and how we manage these risks.

ISDA Master Agreements facilitate cross transaction payments, prescribe close-out netting processes, and define the counterparties' contractual trading relationship. In addition, the agreements formalize non-transaction specific terms. Master Agreements serve to mitigate our credit risk by outlining default and termination events, which enable parties to close out of all outstanding transactions in the case of a negative credit event on either party's side. The mechanism for calculating termination costs in the event of a close out are outlined in the Master Agreement; this allows for the efficient calculation of a single net obligation of one party to another.

CSAs are often included in ISDA Master Agreements. They mitigate counterparty credit risk by providing for the exchange of collateral between parties when a party's exposure to the other exceeds agreed upon thresholds, subject to a minimum transfer amount. CSAs also designate acceptable collateral types, and set out rules for re-hypothecation and interest calculation on collateral.

Consistent with global initiatives to improve resilience in the financial system, we will clear derivatives through central counterparties (CCPs) where feasible. Credit derivatives may be used to reduce industry sector concentrations and single-name exposure.

Forbearance policy

We employ forbearance techniques to manage client relationships and to minimize credit losses due to default, foreclosure or repossession. In certain circumstances, it may be necessary to modify a loan for economic or legal reasons related to a borrower's financial difficulties, and we may grant a concession in the form of below-market rates or terms that would not otherwise be considered, for the purpose of maximizing recovery of our exposure to the loan. In circumstances where the concession is considered below market, the modification is reported as a troubled debt restructuring (TDR). TDRs are subject to our normal quarterly impairment review which considers, amongst other factors, covenants and/or payment delinquencies. An appropriate level of loan loss provision by portfolio segment is then established.

In retail lending, forbearance techniques include interest capitalization, amortization amendments and debt consolidations. We have a set of eligibility criteria which allow our Client Account Management team to determine suitable remediation strategies and propose products based on each borrower's situation. While these solutions often provide more favourable conditions than those originally provided and are intended to increase the ability of borrowers to service their obligation to CIBC overall, we consider these solutions to be at market and comparable to terms and conditions we would have offered to new clients with comparable credit ratings.

The solutions available to corporate and commercial clients vary based on the individual nature of the client's situation and are undertaken selectively where it has been determined that the client has or is likely to have repayment difficulties servicing its obligations. Covenants often reveal changes in the client's financial situation before there is a change in payment behaviour and typically allow for a right to reprice or accelerate payments. Solutions may be temporary in nature or may involve other special management options.

During the year, $347 million (2016: $192 million) of loans have undergone TDR, of which $97 million related to CIBC Bank USA.

Process and control

The credit approval process is centrally controlled, with all significant credit requests submitted to a credit adjudication group within Risk Management that is independent of the originating businesses. Approval authorities are a function of the risk and amount of credit requested. In certain cases, credit requests must be referred to the Credit Committee, a subcommittee of the GRC, or to the RMC for approval.

After initial approval, individual credit exposures continue to be monitored, with a formal risk assessment, including review of assigned ratings, documented at least annually. Higher risk-rated accounts are subject to closer monitoring and are reviewed at least quarterly. Collections and specialized loan workout groups handle the day-to-day management of high risk loans to maximize recoveries.

Risk measurement

Exposures subject to AIRB approach

Business and government portfolios (excluding scored small business) – risk-rating method

This section describes the portfolio rating categories. The portfolio comprises exposures to corporate, sovereign, and bank obligors. Our adjudication process and criteria includes assigning an obligor rating that reflects our estimate of the financial strength of the borrower, and a facility rating that reflects the security applicable to the exposure.

The obligor rating takes into consideration our financial assessment of the obligor, the industry, and the economic environment of the region in which the obligor operates. Where a guarantee from a third-party exists, both the obligor and the guarantor will be assessed. While our obligor rating is determined independently of external ratings for the obligor, our risk-rating methodology includes a review of those external ratings.

A mapping between our internal ratings and the ratings used by external ratings agencies is presented in the table below.

Corporate and Banks				
Grade	PD bands	CIBC rating	S&P equivalent	Moody's equivalent
Investment grade	0.03% – 0.42%	10 – 47	AAA to BBB-	Aaa to Baa3
Non-investment grade	0.43% – 12.11%	51 – 67	BB+ to B-	Ba1 to B3
Watch list	12.12% – 99.99%	70 – 80	CCC+ to C	Caa1 to Ca
Default	100%	90	D	C

Sovereigns				
Grade	PD bands	CIBC rating	S&P equivalent	Moody's equivalent
Investment grade	0.01% – 0.42%	00 – 47	AAA to BBB-	Aaa to Baa3
Non-investment grade	0.43% – 12.11%	51 – 67	BB+ to B-	Ba1 to B3
Watch list	12.12% – 99.99%	70 – 80	CCC+ to C	Caa1 to Ca
Default	100%	90	D	C

We use quantitative modelling techniques to assist in the development of internal risk-rating systems. The risk-rating systems have been developed through analysis of internal and external credit risk data. The risk ratings are used for portfolio management, risk limit setting, product pricing, and in the determination of economic capital.

Our credit process is designed to ensure that we approve applications and extend credit only where we believe that our client has the ability to repay according to the agreed terms and conditions. Embedded in our credit policies and criteria is an assessment of risk exposure using the following three dimensions:

- PD – the probability that the obligor will default within the next 12 months.
- EAD – the estimate of the amount which will be drawn at the time of default.
- LGD – the expected severity of loss as the result of the default, expressed as a percentage of the EAD.

Our credit framework of policies and limits defines our appetite for exposure to any single name or group of related borrowers, which is a function of the internal risk rating. We generally extend new credit only to borrowers in the investment and non-investment grade categories noted above. Our credit policies are also defined to manage our exposure to concentration in borrowers in any particular industry or region.

A simplified risk-rating process (slotting approach) is used for part of our uninsured Canadian commercial mortgage portfolio, which comprises non-residential mortgages and multi-family residential mortgages. These exposures are individually rated on our rating scale using a risk-rating methodology that considers the property's key attributes, which include its loan-to-value (LTV) and debt service ratios, the quality of the property, and the financial strength of the owner/sponsor. All exposures are secured by a lien over the property. In addition, we have insured multi-family residential mortgages, which are not treated under the slotting approach, but are instead treated as sovereign exposures.

Retail portfolios

Retail portfolios are characterized by a large number of relatively small exposures. They comprise of: real estate secured personal lending (residential mortgages and personal loans and lines secured by residential property); qualifying revolving retail exposures (credit cards and unsecured lines of credit); and other retail exposures (loans secured by non-residential assets, unsecured loans including student loans, and scored small business loans).

We use scoring models in the adjudication of new retail credit exposures, which are based on statistical methods of analyzing the unique characteristics of the borrower, to estimate future behaviour. In developing our models, we use internal historical information from previous borrowers, as well as information from external sources, such as credit bureaus. The use of credit scoring models allows for consistent assessment across borrowers. There are specific guidelines in place for each product, and our adjudication decision will take into account the characteristics of the borrower, any guarantors, and the quality and sufficiency of the collateral pledged (if any). The lending process will include documentation of, where appropriate, satisfactory identification, proof of income, independent appraisal of the collateral and registration of security.

Retail portfolios are managed as pools of homogeneous risk exposures, using external credit bureau scores and/or other behavioural assessments to group exposures according to similar credit risk profiles. These pools are assessed through statistical techniques, such as credit scoring and computer-based models. Characteristics used to group individual exposures vary by asset category; as a result, the number of pools, their size, and the statistical techniques applied to their management differ accordingly.

The following table maps the PD bands to various risk levels:

Risk level	**PD bands**
Exceptionally low	0.01% – 0.20%
Very low	0.21% – 0.50%
Low	0.51% – 2.00%
Medium	2.01% – 10.00%
High	10.01% – 99.99%
Default	100%

Back-testing

We monitor the three key risk parameters – PD, EAD, and LGD – on a monthly basis. Every quarter, the back-testing results are reported to OSFI and are presented to the business and Risk Management senior management for review and challenge. For each parameter, we identify any portfolios whose realized values are significantly above or significantly below expectations and then test to see if this deviation is explainable by changes in the economy. If the results indicate that a parameter model may be losing its predictive power, we prioritize that model for review and update.

Stress testing

As part of our regular credit portfolio management process, we conduct stress testing and scenario analyses on our portfolio to quantitatively assess the impact of various historical, as well as hypothetical, stressed conditions, versus limits determined in accordance with our risk appetite. Scenarios are selected to test our exposures to specific industries (e.g., oil and gas and real estate), products (e.g., mortgages and cards), or geographic regions (e.g., Europe and Caribbean). Results from stress testing are a key input into management decision making, including the determination of limits and strategies for managing our credit exposure. See the "Real estate secured personal lending" section for further discussion on our residential mortgage portfolio stress testing.

Exposure to credit risk

The portfolios are categorized based upon how we manage the business and the associated risks. Amounts provided are net of the CVA related to financial guarantors, derivative master netting agreements, and before allowance for credit losses and other risk mitigation. Non-trading equity exposures are not included in the table below as they have been deemed immaterial under the OSFI guidelines, and hence, are subject to 100% risk-weighting.

$ millions, as at October 31	2017			2016		
	AIRB approach	**Standardized approach [1]**	**Total**	AIRB approach	Standardized approach [1]	Total
Business and government portfolios						
Corporate						
Drawn	**$ 78,312**	**$ 23,390**	**$ 101,702**	$ 72,807	$ 3,370	$ 76,177
Undrawn commitments	**39,078**	**4,085**	**43,163**	36,845	145	36,990
Repo-style transactions	**76,899**	**39**	**76,938**	53,644	33	53,677
Other off-balance sheet	**13,484**	**697**	**14,181**	18,350	229	18,579
OTC derivatives	**8,990**	**64**	**9,054**	9,001	–	9,001
	216,763	**28,275**	**245,038**	190,647	3,777	194,424
Sovereign						
Drawn	**41,439**	**11,827**	**53,266**	44,055	4,773	48,828
Undrawn commitments	**5,642**	**–**	**5,642**	4,670	–	4,670
Repo-style transactions	**14,374**	**–**	**14,374**	10,020	–	10,020
Other off-balance sheet	**533**	**–**	**533**	753	–	753
OTC derivatives	**2,660**	**–**	**2,660**	3,581	–	3,581
	64,648	**11,827**	**76,475**	63,079	4,773	67,852
Banks						
Drawn	**10,422**	**2,021**	**12,443**	10,715	1,940	12,655
Undrawn commitments	**840**	**8**	**848**	1,011	–	1,011
Repo-style transactions	**21,469**	**–**	**21,469**	22,720	–	22,720
Other off-balance sheet	**64,176**	**–**	**64,176**	62,107	–	62,107
OTC derivatives	**7,527**	**232**	**7,759**	6,005	167	6,172
	104,434	**2,261**	**106,695**	102,558	2,107	104,665
Gross business and government portfolios	**385,845**	**42,363**	**428,208**	356,284	10,657	366,941
Less: repo-style transaction collateral	**101,315**	**–**	**101,315**	76,263	–	76,263
Net business and government portfolios	**284,530**	**42,363**	**326,893**	280,021	10,657	290,678
Retail portfolios						
Real estate secured personal lending						
Drawn	**223,291**	**3,423**	**226,714**	201,580	2,645	204,225
Undrawn commitments	**18,922**	**3**	**18,925**	18,375	–	18,375
	242,213	**3,426**	**245,639**	219,955	2,645	222,600
Qualifying revolving retail						
Drawn	**21,982**	**–**	**21,982**	21,597	–	21,597
Undrawn commitments	**49,140**	**–**	**49,140**	47,140	–	47,140
Other off-balance sheet	**293**	**–**	**293**	319	–	319
	71,415	**–**	**71,415**	69,056	–	69,056
Other retail						
Drawn	**10,755**	**1,158**	**11,913**	9,671	794	10,465
Undrawn commitments	**2,396**	**28**	**2,424**	2,026	26	2,052
Other off-balance sheet	**37**	**–**	**37**	32	–	32
	13,188	**1,186**	**14,374**	11,729	820	12,549
Total retail portfolios	**326,816**	**4,612**	**331,428**	300,740	3,465	304,205
Securitization exposures [2]	**14,174**	**–**	**14,174**	18,863	–	18,863
Gross credit exposure	**726,835**	**46,975**	**773,810**	675,887	14,122	690,009
Less: repo-style transaction collateral	**101,315**	**–**	**101,315**	76,263	–	76,263
Net credit exposure	**$ 625,520**	**$ 46,975**	**$ 672,495**	$ 599,624	$ 14,122	$ 613,746

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details. Credit risk for CIBC Bank USA and CIBC FirstCaribbean are calculated under the standardized approach.
(2) Under IRB approach.

Net credit exposure increased by $58.7 billion in 2017, primarily due to the acquisition of The PrivateBank, as well as business growth in our Canadian lending portfolios.

Exposures subject to the standardized approach

Exposures within CIBC Bank USA, CIBC FirstCaribbean and certain exposures to individuals for non-business purposes do not have sufficient historical data to support the AIRB approach for credit risk, and are subject to the standardized approach. The standardized approach utilizes a set of risk weightings defined by the regulators, as opposed to the more data intensive AIRB approach. A detailed breakdown of our standardized exposures before allowance for credit losses by risk-weight category is provided below.

$ millions, as at October 31	Risk-weight category							2017	2016
	0%	20%	35%	50%	75%	100%	150%	Total	Total
Corporate	$ –	$ 69	$ –	$ 17	$ –	$ 28,068	$ 121	$ 28,275	$ 3,777
Sovereign	6,820	4,216	–	110	–	644	37	11,827	4,773
Bank	–	1,893	–	114	–	254	–	2,261	2,107
Real estate secured personal lending	–	–	–	–	3,205	–	221	3,426	2,645
Other retail	–	–	–	–	1,109	24	53	1,186	820
	$ 6,820	$ 6,178	$ –	$ 241	$ 4,314	$ 28,990	$ 432	$ 46,975	$ 14,122

Trading credit exposures

We have trading credit exposure (also called counterparty credit exposure) that arises from our OTC derivatives and our repo-style transactions. The nature of our derivatives exposure and how it is mitigated is further explained in Note 12 to the consolidated financial statements. Our repo-style transactions consist of our securities bought or sold under repurchase agreements, and our securities borrowing and lending activity.

The PD of our counterparties is estimated using models consistent with the models used for our direct lending activity. Due to the fluctuations in the market values of interest rates, exchange rates, and equity and commodity prices, counterparty credit exposure cannot be quantified with certainty at the inception of the trade. Counterparty credit exposure is estimated using the current fair value of the exposure, plus an estimate of the maximum potential future exposure due to changes in the fair value. Credit risk associated with these counterparties is managed within the same process as our lending business, and for the purposes of credit adjudication, the exposure is aggregated with any exposure arising from our lending business. The majority of our counterparty credit exposure benefits from the credit risk mitigation techniques discussed above, including daily re-margining, and posting of collateral.

We are also exposed to wrong-way risk. Specific wrong-way risk arises when CIBC receives financial collateral issued (or an underlying reference obligation of a transaction is issued) by the counterparty itself, or by a related entity that would be considered to be part of the same common risk group. General wrong-way risk arises when the exposure and/or collateral pledged to CIBC is highly correlated to that of the counterparty. Exposure to wrong-way risk with derivative counterparties is monitored by Capital Markets Risk Management. Where we may be exposed to wrong-way risk, our adjudication procedures subject those transactions to a more rigorous approval process. The exposure may be hedged with other derivatives to further mitigate the risk that can arise from these transactions.

We establish a CVA for expected future credit losses from each of our derivative counterparties. The expected future credit loss is a function of our estimates of the PD, the estimated loss in the event of default, and other factors such as risk mitigants.

Rating profile of OTC derivative mark-to-market (MTM) receivables

$ billions, as at October 31	2017 (1)			2016
	Exposure (2)			
Investment grade	$ 7.19	84.1 %	$ 7.36	82.8 %
Non-investment grade	1.33	15.6	1.43	16.1
Watch list	0.02	0.2	0.03	0.3
Default	0.01	0.1	0.05	0.6
Unrated	–	–	0.02	0.2
	$ 8.55	100.0 %	$ 8.89	100.0 %

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
(2) MTM of the OTC derivative contracts is after the impact of master netting agreements, but before any collateral.

Concentration of exposures

Concentration of credit risk exists when a number of obligors are engaged in similar activities, or operate in the same geographic areas or industry sectors, and have similar economic characteristics so that their ability to meet contractual obligations is similarly affected by changes in economic, political, or other conditions.

Geographic distribution

The following table provides a geographic distribution of our business and government exposures under the AIRB approach. The classification of geography is based upon the country of ultimate risk. Amounts are before allowance for credit losses and risk mitigation, and net of the CVA related to financial guarantors and $101.3 billion (2016: $76.3 billion) of collateral held for our repurchase agreement activities.

$ millions, as at October 31, 2017	Canada	U.S.	Europe	Other	Total
Drawn	$ 80,338	$ 36,261	$ 4,683	$ 8,891	$ 130,173
Undrawn commitments	34,823	7,417	2,133	1,187	45,560
Repo-style transactions	6,962	2,790	1,035	640	11,427
Other off-balance sheet	52,371	19,358	5,900	564	78,193
OTC derivatives	9,133	4,754	3,306	1,984	19,177
	$ 183,627	$ 70,580	$ 17,057	$ 13,266	$ 284,530
October 31, 2016	$ 178,507	$ 73,352	$ 15,833	$ 12,329	$ 280,021

Business and government exposure by industry groups

The following table provides an industry-wide breakdown of our business and government exposures under the AIRB approach. Amounts are before allowance for credit losses and risk mitigation, and net of the CVA related to financial guarantors and $101.3 billion (2016: $76.3 billion) of collateral held for our repurchase agreement activities.

$ millions, as at October 31	Drawn	Undrawn commitments	Repo-style transactions	Other off-balance sheet	OTC derivatives	2017 Total	2016 Total
Commercial mortgages	$ 1,032	$ 33	$ –	$ –	$ –	$ 1,065	$ 1,694
Financial institutions	31,591	4,375	10,271	70,519	12,350 (1)	129,106	134,727
Retail and wholesale	4,478	2,724	–	258	72	7,532	6,967
Business services	6,780	2,294	45	551	99	9,769	8,682
Manufacturing – capital goods	2,108	2,068	–	426	92	4,694	4,651
Manufacturing – consumer goods	3,033	1,618	–	230	28	4,909	4,546
Real estate and construction	28,470	6,478	26	964	129	36,067	34,549
Agriculture	5,338	1,507	–	27	64	6,936	6,582
Oil and gas	7,499	7,746	–	1,088	1,771	18,104	17,655
Mining	1,507	2,898	–	702	146	5,253	5,104
Forest products	465	459	–	146	13	1,083	1,072
Hardware and software	938	435	–	31	16	1,420	1,108
Telecommunications and cable	1,169	1,142	–	415	124	2,850	2,040
Broadcasting, publishing and printing	370	128	–	–	6	504	889
Transportation	3,783	1,856	–	444	646	6,729	5,867
Utilities	4,181	5,248	–	2,016	617	12,062	11,197
Education, health, and social services	2,673	894	21	107	226	3,921	3,624
Governments	24,758	3,657	1,064	269	2,778	32,526	29,067
	$ 130,173	$ 45,560	$ 11,427	$ 78,193	$ 19,177	$ 284,530	$ 280,021

(1) Includes nil (2016: $2 million) of fair value net of CVA with financial guarantors hedging our derivative contracts.

As part of our risk mitigation strategy, we may use credit protection purchases as a hedge against customer or industry sector concentration. As at October 31, 2017, we had credit protection purchased totalling $155 million (2016: $161 million) related to our business and government loans.

Oil and gas exposure

The following table provides a breakdown of our exposure to the oil and gas industry under the AIRB approach. Of these exposures, 75% are investment grade based on our internal risk rating, which incorporates security pledged (equivalent to S&P/Moody's rating of BBB-/Baa3 or higher).

$ millions, as at October 31, 2017	Drawn	Undrawn commitments	Other off-balance sheet	OTC derivatives	Total
Exploration and production	$ 3,931	$ 3,423	$ 412	$ 838	$ 8,604
Midstream	1,276	1,732	24	138	3,170
Downstream	267	196	71	2	536
Integrated	146	1,150	409	684	2,389
Oil and gas services	333	157	32	17	539
Petroleum distribution	1,546	1,088	140	92	2,866
	$ 7,499	$ 7,746	$ 1,088	$ 1,771	$ 18,104
October 31, 2016	$ 6,873	$ 7,825	$ 963	$ 1,994	$ 17,655

Credit quality of portfolios

Credit quality of the risk-rated portfolios

The following table provides the credit quality of the risk-rated portfolios, under the AIRB approach. Amounts provided are before allowance for credit losses, and after credit risk mitigation, CVA, and collateral on repurchase agreement activities.

The obligor grade is our assessment of the creditworthiness of the obligor, without respect to the collateral held in support of the exposure. The LGD estimate would reflect our assessment of the value of the collateral at the time of default of the obligor. For slotted exposures, the slotting category reflects our assessment of both the creditworthiness of the obligor, as well as the value of the collateral.

$ millions, as at October 31				**2017**	2016
	EAD				
Obligor grade	**Corporate**	**Sovereign**	**Banks**	**Total**	Total
Investment grade	**$ 89,537**	**$ 50,798**	**$ 85,387**	**$ 225,722**	$ 223,743
Non-investment grade	**54,498**	**568**	**1,160**	**56,226**	51,806
Watch list	**1,171**	**2**	**–**	**1,173**	1,974
Default	**344**	**–**	**–**	**344**	803
Total risk-rated exposure	**$ 145,550**	**$ 51,368**	**$ 86,547**	**$ 283,465**	$ 278,326
LGD estimate	**Corporate**	**Sovereign**	**Banks**	**Total**	Total
Less than 10%	**$ 10,090**	**$ 42,107**	**$ 59,554**	**$ 111,751**	$ 116,963
10% – 25%	**39,926**	**2,598**	**11,916**	**54,440**	50,056
26% – 45%	**68,700**	**4,563**	**14,416**	**87,679**	80,216
46% – 65%	**25,879**	**1,931**	**500**	**28,310**	29,803
66% – 100%	**955**	**169**	**161**	**1,285**	1,288
	$ 145,550	**$ 51,368**	**$ 86,547**	**$ 283,465**	$ 278,326
Strong				**899**	1,467
Good				**131**	127
Satisfactory				**30**	86
Weak				**–**	8
Default				**5**	7
Total slotted exposure				**$ 1,065**	$ 1,695
Total business and government portfolios				**$ 284,530**	$ 280,021

The total exposures increased by $4.5 billion from October 31, 2016, largely attributable to growth in our Canadian lending portfolios. The investment grade category increased by $2.0 billion from October 31, 2016, while the non-investment grade category was up $4.4 billion. The decrease in watch list and default exposures was largely attributable to an improvement in the corporate lending portfolios, related to oil and gas and our exited European leveraged finance portfolio.

Credit quality of the retail portfolios

The following table presents the credit quality of the retail portfolios, under the AIRB approach. Amounts provided are before allowance for credit losses and after credit risk mitigation.

$ millions, as at October 31				**2017**	2016
	EAD				
Risk level	**Real estate secured personal lending**	**Qualifying revolving retail**	**Other retail**	**Total**	Total
Exceptionally low	**$ 192,583**	**$ 38,444**	**$ 3,689**	**$ 234,716**	$ 223,014
Very low	**24,861**	**10,437**	**1,208**	**36,506**	27,093
Low	**20,727**	**12,899**	**4,725**	**38,351**	34,980
Medium	**3,376**	**8,271**	**2,789**	**14,436**	12,991
High	**426**	**1,319**	**721**	**2,466**	2,373
Default	**240**	**45**	**56**	**341**	289
	$ 242,213	**$ 71,415**	**$ 13,188**	**$ 326,816**	$ 300,740

Securitization exposures

The following table provides details on our securitization exposures by credit ratings under the IRB approach.

$ millions, as at October 31	**2017**	2016
S&P rating equivalent	EAD [1]	
AAA to BBB-	**$ 11,196**	$ 11,227
BB+ to BB-	**–**	–
Below BB-	**13**	13
Unrated	**2,960**	7,367
	$ 14,169	$ 18,607

(1) EAD under IRB approach is net of financial collateral of $5 million (2016: $256 million).

Real estate secured personal lending

Real estate secured personal lending comprises residential mortgages and personal loans and lines secured by residential property (HELOC). This portfolio is low risk, as we have a first charge on the majority of the properties and a second lien on only a small portion of the portfolio. We use the same lending criteria in the adjudication of both first lien and second lien loans.

Under the *Bank Act* (Canada), banks are limited to providing residential real estate loans of no more than 80% of the collateral value. An exception is made for mortgage loans with a higher LTV ratio if they are insured by either CMHC or a private mortgage insurer. Mortgage insurance protects banks from the risk of default by the borrower, over the term of the coverage. Mortgage insurers are subject to regulatory capital requirements, which aim to ensure that they are well capitalized. If a private mortgage insurer becomes insolvent, the Government of Canada has, provided certain conditions are met, obligations in respect of policies underwritten by certain insolvent private mortgage insurers as more fully described in the *Protection of Residential*

Mortgage or Hypothecary Insurance Act (PRMHIA). There is a possibility that losses could be incurred in respect of insured mortgages if, among other things, CMHC or the applicable private mortgage insurer denies a claim, or further, if a private mortgage insurer becomes insolvent and either the conditions under the PRMHIA are not met or the Government of Canada denies the claim.

The following tables provide details on our residential mortgage and HELOC portfolios:

	Residential mortgages				HELOC [1]		Total			
$ billions, as at October 31, 2017	Insured		Uninsured		Uninsured		Insured		Uninsured	
Ontario [2]	**$ 41.4**	**41 %**	**$ 60.3**	**59 %**	**$ 11.3**	**100 %**	**$ 41.4**	**37 %**	**$ 71.6**	**63 %**
British Columbia and territories [3]	**14.8**	**34**	**28.5**	**66**	**4.4**	**100**	**14.8**	**31**	**32.9**	**69**
Alberta	**15.8**	**61**	**10.2**	**39**	**2.8**	**100**	**15.8**	**55**	**13.0**	**45**
Quebec	**7.3**	**51**	**7.1**	**49**	**1.5**	**100**	**7.3**	**46**	**8.6**	**54**
Central prairie provinces	**4.7**	**62**	**2.9**	**38**	**0.9**	**100**	**4.7**	**55**	**3.8**	**45**
Atlantic provinces	**5.2**	**61**	**3.3**	**39**	**0.8**	**100**	**5.2**	**56**	**4.1**	**44**
Canadian portfolio [4][5]	**89.2**	**44**	**112.3**	**56**	**21.7**	**100**	**89.2**	**40**	**134.0**	**60**
U.S. portfolio [4][6]	**–**	**–**	**0.9**	**100**	**0.1**	**100**	**–**	**–**	**1.0**	**100**
International portfolio [4]	**–**	**–**	**2.5**	**100**	**–**	**–**	**–**	**–**	**2.5**	**100**
Total portfolio	**$ 89.2**	**44 %**	**$ 115.7**	**56 %**	**$ 21.8**	**100 %**	**$ 89.2**	**39 %**	**$ 137.5**	**61 %**
October 31, 2016	$ 97.4	53 %	$ 85.9	47 %	$ 20.3	100 %	$ 97.4	48 %	$ 106.2	52 %

(1) We did not have any insured HELOCs as at October 31, 2017 and 2016.
(2) Includes $20.4 billion (2016: $22.7 billion) of insured residential mortgages, $41.5 billion (2016: $28.3 billion) of uninsured residential mortgages, and $6.6 billion (2016: $5.8 billion) of HELOCs in the Greater Toronto Area (GTA).
(3) Includes $6.9 billion (2016: $7.8 billion) of insured residential mortgages, $21.1 billion (2016: $17.2 billion) of uninsured residential mortgages, and $2.7 billion (2016: $2.5 billion) of HELOCs in the Greater Vancouver Area (GVA).
(4) Geographic location is based on the address of the property.
(5) 74% (2016: 77%) of insurance on Canadian residential mortgages is provided by CMHC and the remaining by two private Canadian insurers, both rated at least AA (low) by DBRS.
(6) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

The average LTV ratios[1] for our uninsured Canadian and international residential mortgages and HELOCs originated during the year are provided in the following table. We did not acquire uninsured residential mortgages or HELOCs from a third-party for the years presented in the table below.

For the year ended October 31	2017		2016	
	Residential mortgages	**HELOC**	Residential mortgages	HELOC
Ontario [2]	**64 %**	**67 %**	64 %	69 %
British Columbia and territories [3]	**60**	**64**	60	64
Alberta	**68**	**72**	68	72
Quebec	**68**	**72**	67	72
Central prairie provinces	**69**	**73**	69	73
Atlantic provinces	**72**	**73**	72	73
Canadian portfolio [4]	**64 %**	**67 %**	64 %	68 %
U.S. Portfolio [4][5]	**71**	**69**	n/a	n/a
International portfolio [4]	**73 %**	**n/m**	71 %	n/m

(1) LTV ratios for newly originated residential mortgages and HELOCs are calculated based on weighted average.
(2) Average LTV ratios for our uninsured GTA residential mortgages originated during the year were 62% (2016: 62%).
(3) Average LTV ratios for our uninsured GVA residential mortgages originated during the year were 58% (2016: 57%).
(4) Geographic location is based on the address of the property.
(5) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
n/a Not applicable.
n/mNot meaningful.

The following table provides the average LTV ratios on our total Canadian residential mortgage portfolio:

	Insured	Uninsured
October 31, 2017 [1][2]	**54 %**	**53 %**
October 31, 2016 [1][2]	57 %	56 %

(1) LTV ratios for residential mortgages are calculated based on weighted average. The house price estimates for October 31, 2017 and 2016 are based on the Forward Sortation Area (FSA) level indices from the Teranet – National Bank National Composite House Price Index (Teranet) as of September 30, 2017 and 2016, respectively. Teranet is an independent estimate of the rate of change in Canadian home prices.
(2) Average LTV ratio on our uninsured GTA residential mortgage portfolio was 49% (2016: 53%). Average LTV ratio on our uninsured GVA residential mortgage portfolio was 43% (2016: 46%).

The tables below summarize the remaining amortization profile of our total Canadian, U.S. and other international residential mortgages. The first table provides the remaining amortization periods based on the minimum contractual payment amounts. The second table provides the remaining amortization periods based upon current customer payment amounts, which incorporate payments larger than the minimum contractual amount and/or higher frequency of payments.

Contractual payment basis

	Less than 5 years	5 – 10 years	10 – 15 years	15 – 20 years	20 – 25 years	25 – 30 years	30 – 35 years	35 years and above
Canadian portfolio								
October 31, 2017	**– %**	**1 %**	**2 %**	**5 %**	**37 %**	**53 %**	**2 %**	**– %**
October 31, 2016	– %	– %	3 %	6 %	30 %	58 %	3 %	– %
U.S. portfolio								
October 31, 2017 (1)	**– %**	**3 %**	**13 %**	**15 %**	**13 %**	**50 %**	**3 %**	**3 %**
October 31, 2016	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
International portfolio								
October 31, 2017	**8 %**	**15 %**	**26 %**	**23 %**	**17 %**	**10 %**	**1 %**	**– %**
October 31, 2016	8 %	16 %	27 %	24 %	16 %	8 %	1 %	– %

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
n/a Not applicable.

Current customer payment basis

	Less than 5 years	5 – 10 years	10 – 15 years	15 – 20 years	20 – 25 years	25 – 30 years	30 – 35 years	35 years and above
Canadian portfolio								
October 31, 2017	**2 %**	**4 %**	**7 %**	**11 %**	**35 %**	**36 %**	**5 %**	**– %**
October 31, 2016	2 %	5 %	8 %	12 %	34 %	37 %	2 %	– %
U.S. portfolio								
October 31, 2017 (1)	**– %**	**4 %**	**14 %**	**15 %**	**13 %**	**46 %**	**2 %**	**6 %**
October 31, 2016	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
International portfolio								
October 31, 2017	**8 %**	**15 %**	**26 %**	**23 %**	**17 %**	**9 %**	**1 %**	**1 %**
October 31, 2016	8 %	16 %	26 %	23 %	16 %	8 %	2 %	1 %

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
n/a Not applicable.

In October 2016, the Minister of Finance announced changes to strengthen the housing market that imposed the use of the government-posted mortgage qualifying rates on a wider range of insured mortgages, and closed loopholes related to the principal residence exemption for capital gains taxes. There is ongoing consultation with market participants on an approach to implement risk sharing for insured mortgages (i.e., sharing losses between banks and insurers).

In August 2016, the government of British Columbia introduced a 15% property transfer tax on the purchase of real estate in the GVA and surrounding regions by foreign buyers. In April 2017, the Ontario government introduced a number of housing-related regulations, including a 15% foreign buyers' tax in the GTA and surrounding regions. Indications have shown that residential real estate activity, including sales and average resale prices, have slowed in the GTA since the new tax was introduced, while the GVA has seen renewed activity levels after an initial decline. CIBC will continue to closely monitor the housing markets and the performance of our credit portfolios in these two regions, and will take risk mitigation action as required.

In October 2017, OSFI released final updates to its B-20 guidelines, which will come into effect on January 1, 2018. The guidelines introduce a number of key changes to qualifying interest rates for uninsured mortgages, dynamic and adjusted LTV ratios and more prescriptive guidance around the definitions of non-conforming loans.

Reflective of the government and regulatory measures noted above, in addition to changes in consumer behaviour, we expect our insured mortgage mix as a proportion of total mortgages to continue to decrease. We also anticipate that the change in rules may make it more difficult for certain Canadians to qualify for mortgages, which could result in fewer and/or smaller originations going forward.

We have two types of condominium exposures in Canada: mortgages and developer loans. Both are primarily concentrated in the Toronto and Vancouver areas. As at October 31, 2017, our Canadian condominium mortgages were $23.8 billion (2016: $20.6 billion), of which 44% (2016: 54%) were insured. Our drawn developer loans were $0.9 billion (2016: $0.7 billion), or 0.9% (2016: 0.8%) of our business and government portfolio, and our related undrawn exposure was $2.4 billion (2016: $2.2 billion). The condominium developer exposure is diversified across 87 projects.

We stress test our mortgage and HELOC portfolio to determine the potential impact of different economic events. Our stress tests can use variables such as unemployment rates, debt service ratios and housing price changes, to model potential outcomes for a given set of circumstances. The stress testing involves variables that could behave differently in certain situations. Our main tests use economic variables in a similar range to historical events when Canada experienced economic downturns. Our results show that in an economic downturn, our strong capital position should be sufficient to absorb mortgage and HELOC losses.

Credit quality performance

As at October 31, 2017, total loans and acceptances after allowance for credit losses were $365.6 billion (2016: $319.8 billion). Consumer loans (comprising residential mortgages, credit cards, and personal loans, including student loans) constitute 71% (2016: 74%) of the portfolio, and business and government loans (including acceptances) constitute the remainder of the portfolio.

Consumer loans were up by $22.9 billion or 10% from the prior year, primarily due to an increase in residential mortgages of $20.0 billion. Business and government loans (including acceptances) were up $22.8 billion or 27% from the prior year, mainly attributable to the inclusion of the results of CIBC Bank USA.

The following table provides details of our impaired loans and allowances for credit losses:

$ millions, as at or for the year ended October 31	2017			2016		
	Business and government loans	**Consumer loans**	**Total**	Business and government loans	Consumer loans	Total
Gross impaired loans						
Balance at beginning of year	**$ 951**	**$ 707**	**$ 1,658**	$ 659	$ 760	$ 1,419
Classified as impaired during the year	**346**	**1,368**	**1,714**	1,100	1,222	2,322
Transferred to not impaired during the year	**(42)**	**(157)**	**(199)**	(16)	(125)	(141)
Net repayments	**(406)**	**(310)**	**(716)**	(405)	(266)	(671)
Amounts written off	**(131)**	**(926)**	**(1,057)**	(259)	(894)	(1,153)
Recoveries of loans and advances previously written off	**–**	**–**	**–**	–	–	–
Disposals of loans	**(169)**	**–**	**(169)**	(156)	–	(156)
Purchased credit-impaired loans [1]	**93**	**12**	**105**	–	–	–
Foreign exchange and other	**(16)**	**(10)**	**(26)**	28	10	38
Balance at end of year	**$ 626**	**$ 684**	**$ 1,310**	$ 951	$ 707	$ 1,658
Allowance for impairment [2]						
Balance at beginning of year	**$ 259**	**$ 313**	**$ 572**	$ 313	$ 333	$ 646
Amounts written off	**(131)**	**(926)**	**(1,057)**	(259)	(894)	(1,153)
Recoveries of amounts written off in previous years	**20**	**173**	**193**	14	169	183
Charge to income statement	**78**	**751**	**829**	208	724	932
Interest accrued on impaired loans	**(18)**	**(8)**	**(26)**	(20)	(9)	(29)
Disposals of loans	**–**	**–**	**–**	–	–	–
Foreign exchange and other	**(17)**	**(17)**	**(34)**	3	(10)	(7)
Balance at end of year	**$ 191**	**$ 286**	**$ 477**	$ 259	$ 313	$ 572
Net impaired loans						
Balance at beginning of year	**$ 692**	**$ 394**	**$ 1,086**	$ 346	$ 427	$ 773
Net change in gross impaired	**(325)**	**(23)**	**(348)**	292	(53)	239
Net change in allowance	**68**	**27**	**95**	54	20	74
Balance at end of year	**$ 435**	**$ 398**	**$ 833**	$ 692	$ 394	$ 1,086
Net impaired loans as a percentage of net loans and acceptances			**0.23%**			0.34%

(1) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
(2) Includes collective allowance relating to personal, scored small business and mortgage impaired loans that are greater than 90 days delinquent, and individual allowance.

Gross impaired loans

As at October 31, 2017, gross impaired loans were $1,310 million, down $348 million from the prior year. The decrease was mainly due to reductions in the oil and gas sector and in our exited European leveraged finance portfolio, as well as the impact of U.S. dollar depreciation on our existing portfolio. These factors were partially offset by the inclusion of the results of CIBC Bank USA and a new impairment in our pre-existing U.S. real estate finance portfolio.

Approximately 39% of gross impaired loans related to Canada, of which the residential mortgages and personal lending portfolios accounted for the majority.

Approximately 33% of gross impaired loans related to CIBC FirstCaribbean, of which the residential mortgages, real estate and construction, and personal lending portfolios accounted for the majority.

The remaining gross impaired loans related to the U.S., of which the real estate and construction, and the oil and gas sectors accounted for the majority.

Additional details on the geographic distribution and industry classification of impaired loans are provided in the "Supplementary annual financial information" section.

Allowance for impairment

Allowance for impairment was $477 million, down $95 million from the prior year.

The decrease was primarily due to decreases in our exited European leveraged finance portfolio, the residential mortgage portfolio of CIBC FirstCaribbean, and the oil and gas sector, as well as the impact of U.S. dollar depreciation on our existing portfolio. These factors were partially offset by a new impairment in our pre-existing U.S. real estate finance portfolio.

Exposure to certain countries and regions

Over the past several years, a number of countries in Europe experienced credit concerns. The following tables provide our exposure to European countries, both within and outside the Eurozone.

Our direct exposures presented in the tables below comprise (A) funded – on-balance sheet loans (stated at amortized cost net of allowances, if any), deposits with banks (stated at amortized cost net of allowances, if any) and securities (stated at fair value); (B) unfunded – unutilized credit commitments, letters of credit, and guarantees (stated at notional amount net of allowances, if any) and sold credit default swap (CDS) contracts where we do not benefit from subordination (stated at notional amount less fair value); and (C) derivative MTM receivables (stated at fair value) and repo-style transactions (stated at fair value).

Of our total direct exposures to Europe, approximately 39% (2016: 34%) is to entities in countries with Aaa/AAA ratings from at least one of Moody's or S&P.

The following table provides a summary of our positions in this business:

	Direct exposures							
	Funded				Unfunded			
$ millions, as at October 31, 2017	Corporate	Sovereign	Bank	Total funded (A)	Corporate	Bank	Total unfunded (B)	
Austria	$ –	$ 310	$ –	$ 310	$ –	$ 2	$ 2	
Belgium	6	–	3	9	–	–	–	
Finland	–	1	13	14	62	–	62	
France	39	–	51	90	70	9	79	
Germany	218	849	614	1,681	283	24	307	
Ireland	18	–	2	20	–	13	13	
Italy	–	–	1	1	–	–	–	
Luxembourg	2	–	–	2	5	36	41	
Netherlands	234	79	51	364	139	56	195	
Spain	2	–	2	4	–	–	–	
Total Eurozone	$ 519	$ 1,239	$ 737	$ 2,495	$ 559	$ 140	$ 699	
Czech Republic	$ –	$ –	$ –	$ –	$ –	$ –	$ –	
Denmark	–	–	17	17	–	22	22	
Norway	–	117	4	121	307	–	307	
Sweden	29	242	24	295	75	–	75	
Switzerland	179	–	27	206	120	–	120	
Turkey	–	–	61	61	–	4	4	
United Kingdom	922	427	478	1,827	2,824	201	3,025	
Total non-Eurozone	$ 1,130	$ 786	$ 611	$ 2,527	$ 3,326	$ 227	$ 3,553	
Total Europe [1]	$ 1,649	$ 2,025	$ 1,348	$ 5,022	$ 3,885	$ 367	$ 4,252	
October 31, 2016	$ 1,684	$ 1,401	$ 1,488	$ 4,573	$ 3,347	$ 296	$ 3,643	

(1) Includes nil (2016: $162 million) of loans, net of allowance, related to the discontinued European leveraged finance business.

	Direct exposures (continued)						
	Derivative MTM receivables and repo-style transactions						
$ millions, as at October 31, 2017	Corporate	Sovereign	Bank	Gross exposure [1]	Collateral held [2]	Net exposure (C)	Total direct exposure (A)+(B)+(C)
Austria	$ –	$ 2	$ 28	$ 30	$ 25	$ 5	$ 317
Belgium	–	–	12	12	12	–	9
Finland	3	–	–	3	–	3	79
France	27	1	2,968	2,996	2,965	31	200
Germany	26	–	1,180	1,206	1,150	56	2,044
Ireland	–	–	2,265	2,265	2,212	53	86
Italy	–	–	3	3	–	3	4
Luxembourg	–	–	34	34	–	34	77
Netherlands	21	–	61	82	58	24	583
Spain	–	–	37	37	37	–	4
Total Eurozone	$ 77	$ 3	$ 6,588	$ 6,668	$ 6,459	$ 209	$ 3,403
Czech Republic	$ –	$ 1,656	$ –	$ 1,656	$ 1,569	$ 87	$ 87
Denmark	–	–	3	3	3	–	39
Norway	–	295	–	295	295	–	428
Sweden	9	–	307	316	305	11	381
Switzerland	–	–	3,682	3,682	3,525	157	483
Turkey	–	–	–	–	–	–	65
United Kingdom	628	–	3,823	4,451	3,749	702	5,554
Total non-Eurozone	$ 637	$ 1,951	$ 7,815	$ 10,403	$ 9,446	$ 957	$ 7,037
Total Europe	$ 714	$ 1,954	$ 14,403	$ 17,071	$ 15,905	$ 1,166	$ 10,440
October 31, 2016	$ 746	$ 1,056	$ 10,109	$ 11,911	$ 10,805	$ 1,106	$ 9,322

(1) The amounts shown are net of CVA.
(2) Collateral on derivative MTM receivables was $1.0 billion (2016: $1.2 billion), collateral on repo-style transactions was $14.9 billion (2016: $9.6 billion), and both are composed of cash and investment grade debt securities.

In addition to the European exposure identified above, we have $1 million (2016: $132 million) of indirect exposure, which comprises securities (primarily collateralized loan obligations (CLOs) classified as loans on our consolidated balance sheet). Our gross exposure before subordination is stated at carrying value.

We also have $181 million (2016: $399 million) of indirect exposure to European entities, as we hold debt or equity securities issued by European entities as collateral for our securities lending and borrowing activity, from counterparties that are not in Europe.

Selected exposures in certain activities

In response to the recommendations of the Financial Stability Board, this section provides information on our other selected activities within our continuing and exited businesses that may be of particular interest to investors based on their risk characteristics and the current market environment.

Structured credit run-off business

In 2008, management made a decision to wind down our exposure in the structured credit business. The following table provides a summary of our exposures:

									Purchased credit protection			
US$ millions, as at October 31	Investments and loans [1]				Written credit derivatives, liquidity and credit facilities		Financial guarantors		Other counterparties	
	Notional	Fair value of trading, AFS and FVO securities	Fair value of securities classified as loans	Carrying value of securities classified as loans	Notional	Fair value	Notional	Fair value net of CVA	Notional	Fair value net of CVA
2017	**$ 188**	**$ 73**	**$ 9**	**$ 9**	**$ 135**	**$ 100**	**$ –**	**$ –**	**$ 125**	**$ 100**
2016	$ 611	$ 252	$ 236	$ 236	$ 3,695	$ 120	$ 282	$ 2	$ 3,821	$ 103

(1) Excluded from the table above are equity AFS securities that we obtained in consideration for commutation of our U.S. residential mortgage market (USRMM) contracts with financial guarantors with a carrying value of US$7 million (2016: US$5 million).

As at October 31, 2017, our significant positions in investments and loans include:

- Notes that were originally received in exchange for our non-bank sponsored ABCP in January 2009, upon the ratification of the Montreal Accord restructuring, which include loans classified at amortized cost with a notional value of US$48 million and fair value and carrying value of nil; and
- US$83 million notional value of collateralized debt obligations (CDOs) consisting of trust preferred securities collateral, which are Tier I Innovative Capital Instruments issued by U.S. regional banks and insurers. These securities are classified as FVO securities and had a fair value of US$73 million.

As at October 31, 2017, our significant positions in written and purchased credit derivatives include:

- USRMM CDO positions consisting of a written and purchased credit derivative with the same notional value of US$125 million.

Net income for the year was $17 million (US$13 million), compared with $2 million (US$2 million) in 2016. During the year, our exposure significantly decreased due to maturities and unwinds, including the maturity of a corporate debt exposure in the first quarter of 2017, where CIBC had purchased and sold credit protection with a notional value of US$3.3 billion.

U.S. real estate lending

In our U.S. Commercial Banking and Wealth Management SBU, we operate a full-service real estate platform which offers credit to mid-market clients. Once construction is complete, and the property is income producing, we may occasionally offer fixed-rate financing within a permanent financing program (typically with average terms of up to 10 years). This portfolio of permanent financing exposures, which is a small subset of our total U.S. real estate lending portfolio, serves as a warehouse for inclusion in future commercial mortgage-backed securities (CMBS) programs. We retain no exposure to those CMBS programs. As at October 31, 2017, the portfolio was $95 million (October 31, 2016: $105 million).

Settlement risk

Settlement risk is the risk that during an agreed concurrent exchange of currency or principal payments, the counterparty will fail to make its payment to CIBC. This risk can arise in general trading activities and from payment and settlement system participation.

Many global settlement systems offer significant risk reduction benefits through complex risk mitigation frameworks. Bilateral payment netting agreements may be put in place to mitigate risk by reducing the aggregate settlement amount between counterparties. Further, we participate in several North American payment and settlement systems, including a global foreign exchange multilateral netting system. We also use financial intermediaries to access some payment and settlement systems, and for certain trades, we may utilize an established clearing house to minimize settlement risk.

Transactions settled outside of payment and settlement systems or clearing houses require approval of credit facilities for counterparties, either as pre-approved settlement risk limits or payment-versus-payment arrangements.

Market risk

Market risk is the risk of economic financial loss in our trading and non-trading portfolios from adverse changes in underlying market factors, including interest rates, foreign exchange rates, equity market prices, commodity prices, credit spreads, and customer behaviour for retail products. Market risk arises in CIBC's trading and treasury activities, and encompasses all market-related positioning and market making activity.

The trading book consists of positions in financial instruments and commodities held to meet the near-term needs of our clients.

The non-trading book consists of positions in various currencies that are related to asset/liability management (ALM) and investment activities.

Governance and management

Market risk is managed through the three lines of defence model. Frontline businesses are responsible for managing the market risk associated with their activities – this is the first line of defence.

The second line of defence is Risk Management, which has a dedicated market risk manager for each trading business, supplemented by regional risk managers located in all of our major trading centres, facilitating comprehensive risk coverage, including the measurement, monitoring and control of market risk.

Internal Audit provides the third line of defence, with independent assessment of the design and operating effectiveness of risk management controls, processes and systems.

Senior management reports material risk matters to the GRC and RMC at least quarterly, including material transactions, limit compliance, and portfolio trends.

Policies

We have comprehensive policies for the management of market risk. These policies are related to the identification and measurement of various types of market risk, their inclusion in the trading book, and to the establishment of limits within which we monitor, manage, and report our overall exposures. Our policies also outline the requirements for the construction of valuation models, independent checking of the valuation of positions, the establishment of valuation adjustments, and alignment with accounting policies including MTM and mark-to-model methodologies.

Market risk limits

We have risk tolerance levels, expressed in terms of statistically based VaR measures, potential stress losses, and notional or other limits as appropriate. We use a multi-tiered approach to set limits on the amounts of risk that we can assume in our trading and non-trading activities, as follows:

- Board limits control consolidated market risk;
- Management limits control market risk for CIBC overall and are lower than the Board limits to allow for a buffer in the event of extreme market moves and/or extraordinary client needs;
- Tier 2 limits control market risk at the business unit level; and
- Tier 3 limits control market risk at the sub-business unit or desk level. Tier 3 limits are set on VaR and a variety of metrics including stress.

Management limits are established by the CRO, consistent with the risk appetite statement approved by the Board. Tier 2 and Tier 3 limits are approved at levels of management commensurate with risk assumed.

Process and control

Market risk exposures are monitored daily against approved risk limits, and control processes are in place to monitor that only authorized activities are undertaken. We generate daily risk and limit-monitoring reports, based on the previous day's positions. Summary market risk and limit compliance reports are produced and reviewed periodically with the GRC and RMC.

Risk measurement

We use the following measures for market risk:

- VaR enables the meaningful comparison of the risks in different businesses and asset classes. VaR is determined by the combined modelling of VaR for each of interest rate, credit spread, equity, foreign exchange, commodity, and debt specific risks, along with the portfolio effect arising from the interrelationship of the different risks (diversification effect):
  - Interest rate risk measures the impact of changes in interest rates and volatilities on cash instruments and derivatives;
  - Credit spread risk measures the impact of changes in credit spreads of provincial, municipal and agency bonds, sovereign bonds, corporate bonds, securitized products, and credit derivatives such as CDS;
  - Equity risk measures the impact of changes in equity prices and volatilities, including implied market corrections;
  - Foreign exchange risk measures the impact of changes in foreign exchange rates and volatilities;
  - Commodity risk measures the impact of changes in commodity prices and volatilities, including the basis between related commodities;
  - Debt specific risk measures the impact of changes in the volatility of the yield of a debt instrument as compared with the volatility of the yield of a representative bond index; and
  - Diversification effect reflects the risk reduction achieved across various financial instrument types, counterparties, currencies and regions. The extent of diversification benefit depends on the correlation between the assets and risk factors in the portfolio at a particular time.
- Price sensitivity measures the change in value of a portfolio to a small change in a given underlying parameter, so that component risks may be examined in isolation, and the portfolio rebalanced accordingly to achieve a desired exposure;
- Stressed VaR enables the meaningful comparison of the risks in different businesses and asset classes under stressful conditions. Changes to rates, prices, volatilities, and spreads over a ten day horizon from a stressful historical period are applied to current positions and determine stressed VaR;
- IRC measures the required capital due to credit migration and default risk for debt securities held in the trading portfolios;
- Back-testing validates the effectiveness of risk measurement through analysis of observed and theoretical profit and loss outcomes; and
- Stress testing and scenario analyses provide insight into portfolio behaviour under extreme circumstances.

The following table provides balances on the consolidated balance sheet which are subject to market risk. Certain differences between accounting and risk classifications are detailed in the footnotes below:

$ millions, as at October 31	2017 (1)				2016				
		Subject to market risk				Subject to market risk			
	Consolidated balance sheet	Trading	Non-trading	Not subject to market risk	Consolidated balance sheet	Trading	Non-trading	Not subject to market risk	Non-traded risk primary risk sensitivity
Cash and non-interest-bearing deposits with banks	$ 3,440	$ –	$ 1,940	$ 1,500	$ 3,500	$ –	$ 1,645	$ 1,855	Foreign exchange
Interest-bearing deposits with banks	10,712	426	10,286	–	10,665	347	10,318	–	Interest rate
Securities	93,419	48,900 (2)	44,519	–	87,423	48,066 (2)	39,357	–	Equity, interest rate
Cash collateral on securities borrowed	5,035	–	5,035	–	5,433	–	5,433	–	Interest rate
Securities purchased under resale agreements	40,383	–	40,383	–	28,377	–	28,377	–	Interest rate
Loans									
Residential mortgages	207,271	–	207,271	–	187,298	–	187,298	–	Interest rate
Personal	40,937	–	40,937	–	38,041	–	38,041	–	Interest rate
Credit card	12,378	–	12,378	–	12,332	–	12,332	–	Interest rate
Business and government	97,766	13,809 (3)	83,957	–	71,437	6,536 (3)	64,901	–	Interest rate
Allowance for credit losses	(1,618)	–	(1,618)	–	(1,691)	–	(1,691)	–	Interest rate
Derivative instruments	24,342	21,120 (4)	3,222	–	27,762	24,130 (4)	3,632	–	Interest rate, foreign exchange
Customers' liability under acceptances	8,824	–	8,824	–	12,364	–	12,364	–	Interest rate
Other assets	22,375	955	12,411	9,009	18,416	1,466	9,190	7,760	Interest rate, equity, foreign exchange
	$ 565,264	$ 85,210	$ 469,545	$ 10,509	$ 501,357	$ 80,545	$ 411,197	$ 9,615	
Deposits	$439,706	$ 510 (5)	$ 391,831	$ 47,365	$ 395,647	$ 331 (5)	$ 352,522	$ 42,794	Interest rate
Obligations related to securities sold short	13,713	13,682	31	–	10,338	10,256	82	–	Interest rate
Cash collateral on securities lent	2,024	–	2,024	–	2,518	–	2,518	–	Interest rate
Obligations related to securities sold under repurchase agreements	27,971	–	27,971	–	11,694	–	11,694	–	Interest rate
Derivative instruments	23,271	21,029 (4)	2,242	–	28,807	24,433 (4)	4,374	–	Interest rate, foreign exchange
Acceptances	8,828	–	8,828	–	12,395	–	12,395	–	Interest rate
Other liabilities	15,305	1,323	7,022	6,960	12,919	927	5,445	6,547	Interest rate
Subordinated indebtedness	3,209	–	3,209	–	3,366	–	3,366	–	Interest rate
	$ 534,027	$ 36,544	$ 443,158	$ 54,325	$ 477,684	$ 35,947	$ 392,396	$ 49,341	

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
(2) Excludes securities in the structured credit run-off business of $3 million (2016: $496 million), and certain other securities that are considered non-trading for market risk purposes.
(3) Excludes $95 million (2016: $103 million) of loans that are warehoused for future securitization purposes. These are considered non-trading for market risk purposes.
(4) Excludes derivatives relating to the structured credit and other run-off businesses which are considered non-trading for market risk purposes.
(5) Comprises FVO deposits which are considered trading for market risk purposes.

Trading activities

We hold positions in traded financial contracts to meet client investment and risk management needs. Trading revenue (net interest income or non-interest income) is generated from these transactions. Trading instruments are recorded at fair value and include debt and equity securities, as well as interest rate, foreign exchange, equity, commodity, and credit derivative products.

Value-at-Risk

Our VaR methodology is a statistical technique that measures the potential overnight loss at a 99% confidence level. We use a full revaluation historical simulation methodology to compute VaR, stressed VaR and other risk measures.

Although a valuable guide to risk, VaR should always be viewed in the context of its limitations. For example:

- The use of historical data for estimating future events will not encompass all potential events, particularly those that are extreme in nature;
- The use of a one-day holding period assumes that all positions can be liquidated or the risks offset in one day. This may not fully reflect the market risk arising at times of severe illiquidity, when a one-day period may be insufficient to liquidate or hedge all positions fully;
- The use of a 99% confidence level does not take into account losses that might occur beyond this level of confidence; and
- VaR is calculated on the basis of exposures outstanding at the close of business and assumes no management action to mitigate losses.

The VaR table below presents market risks by type of risk and in aggregate. The risks are interrelated and the diversification effect reflects the reduction of risk due to portfolio effects among the trading positions. Our trading risk exposures to interest rates and credit spreads arise from activities in the global debt and derivative markets, particularly from transactions in the Canadian, U.S., and European markets. The primary instruments are government and corporate debt, and interest rate derivatives. The majority of the trading exposure to foreign exchange risk arises from transactions involving the Canadian dollar, U.S. dollar, Euro, pound sterling, Australian dollar, Chinese yuan, and Japanese yen, whereas the primary risks of losses in equities are in the U.S., Canadian, and European markets. Trading exposure to commodities arises primarily from transactions involving North American natural gas, crude oil products, and precious metals.

VaR by risk type – trading portfolio

$ millions, as at or for the year ended October 31	2017				2016			
	High	**Low**	**As at**	**Average**	High	Low	As at	Average
Interest rate risk	**$ 6.9**	**$ 1.8**	**$ 3.9**	**$ 4.1**	$ 4.4	$ 1.2	$ 2.1	$ 2.2
Credit spread risk	**3.8**	**0.7**	**0.9**	**2.1**	7.0	1.7	2.5	3.4
Equity risk	**18.5**	**1.8**	**3.1**	**3.3**	6.0	1.4	4.2	2.9
Foreign exchange risk	**10.3**	**0.8**	**1.2**	**3.2**	5.0	0.7	1.8	1.8
Commodity risk	**5.1**	**1.3**	**3.2**	**2.6**	5.6	1.0	2.9	1.9
Debt specific risk	**2.0**	**0.7**	**1.6**	**1.3**	2.1	0.8	1.1	1.3
Diversification effect (1)	**n/m**	**n/m**	**(8.8)**	**(10.1)**	n/m	n/m	(9.0)	(7.7)
Total VaR (one-day measure)	**$ 22.2**	**$ 3.7**	**$ 5.1**	**$ 6.5**	$ 9.9	$ 3.1	$ 5.6	$ 5.8

(1) Total VaR is less than the sum of the VaR of the different market risk types due to risk offsets resulting from a portfolio diversification effect.
n/mNot meaningful. It is not meaningful to compute a diversification effect because the high and low may occur on different days for different risk types.

Average total VaR for the year ended October 31, 2017 was up $0.7 million from the prior year. The increase was driven by an increase in interest rate, foreign exchange, commodity, and equity risks, partially offset by a decrease in credit spread risk.

Stressed VaR

The stressed VaR measure is intended to replicate the VaR calculation that would be generated for our current portfolio if the values of the relevant market risk factors were sourced from a period of stressed market conditions. The model inputs are calibrated to historical data from a continuous 12-month period of significant financial stress relevant to our current portfolio since December 2006. Our current stressed VaR period is from September 10, 2008 to September 8, 2009.

Stressed VaR by risk type – trading portfolio

$ millions, as at or for the year ended October 31	2017				2016			
	High	**Low**	**As at**	**Average**	High	Low	As at	Average
Interest rate risk	**$ 32.2**	**$ 6.4**	**$ 25.2**	**$ 15.1**	$ 21.5	$ 5.2	$ 11.7	$ 9.4
Credit spread risk	**13.8**	**4.1**	**5.6**	**7.9**	14.9	8.0	11.4	11.2
Equity risk	**11.3**	**0.8**	**1.9**	**2.2**	5.0	0.9	2.7	2.0
Foreign exchange risk	**28.2**	**0.6**	**1.8**	**7.1**	13.1	0.5	1.1	2.8
Commodity risk	**9.2**	**1.4**	**3.4**	**4.3**	8.9	1.5	3.1	3.2
Debt specific risk	**5.0**	**2.3**	**4.4**	**3.4**	4.5	1.9	2.6	2.9
Diversification effect (1)	**n/m**	**n/m**	**(35.6)**	**(27.9)**	n/m	n/m	(25.8)	(22.0)
Stressed total VaR (one-day measure)	**$ 35.0**	**$ 5.4**	**$ 6.7**	**$ 12.1**	$ 16.1	$ 4.9	$ 6.8	$ 9.5

(1) Stressed total VaR is less than the sum of the VaR of the different market risk types due to risk offsets resulting from a portfolio diversification effect.
n/mNot meaningful. It is not meaningful to compute a diversification effect because the high and low may occur on different days for different risk types.

Average stressed total VaR for the year ended October 31, 2017 was up $2.6 million from the prior year. The increase was driven by an increase in interest rate, foreign exchange, commodity, debt specific, and equity risks, partially offset by a reduction in credit spread risk.

Incremental risk charge

IRC is a measure of default and migration risk for debt securities held in the trading portfolios. Our IRC methodology is a statistical technique that measures the risk of issuer migration and default over a period of one year by simulating changes in issuer credit rating. Validation of the model included testing of the liquidity horizon, recovery rate, correlation, and PD and migration.

IRC – trading portfolio

$ millions, as at or for the year ended October 31	2017				2016			
	High	**Low**	**As at**	**Average**	High	Low	As at	Average
Default risk	**$ 329.1**	**$ 69.4**	**$ 69.5**	**$ 110.5**	$ 102.5	$ 42.2	$ 72.0	$ 64.6
Migration risk	**145.1**	**27.3**	**77.9**	**64.0**	80.3	21.1	57.9	32.8
IRC (one-year measure) (1)	**$ 387.8**	**$ 122.2**	**$ 147.4**	**$ 174.5**	$ 137.1	$ 73.0	$ 129.9	$ 97.4

(1) High and low IRC are not equal to the sum of the constituent parts, because the highs and lows of the constituent parts may occur on different days.

Average IRC for the year ended October 31, 2017 was up $77.1 million from the prior year due to increases in inventory size in the trading portfolio.

Back-testing

To determine the reliability of the trading VaR model, outcomes are monitored regularly through a back-testing process to test the validity of the assumptions and the parameters used in the trading VaR calculation. The back-testing process includes calculating a hypothetical or static profit and loss and comparing that result with calculated VaR. Static profit and loss represents the change in value of the prior day's closing portfolio due to each day's price movements, on the assumption that the contents of the portfolio remained unchanged. The back-testing process is conducted on a daily basis at the consolidated CIBC level. Back-testing is also performed for business lines and individual portfolios.

Static profit and loss and trading losses in excess of the one-day VaR are investigated. The back-testing process, including the investigation of results, is performed by risk professionals who are independent of those responsible for development of the model.

Internal Audit also reviews our models, validation processes, and results of our back-testing. Based on our back-testing results, we are able to ensure that our VaR model continues to appropriately measure risk.

During the year, there were no negative back-testing breaches of the total VaR measure.

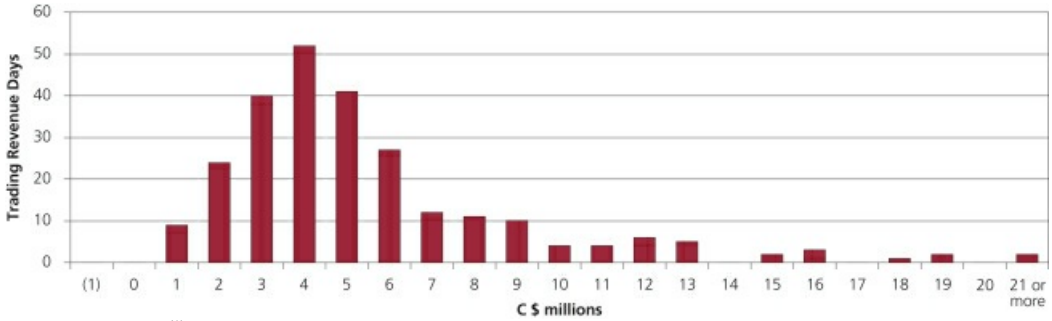
Trading revenue

Trading revenue (TEB) comprises both trading net interest income and non-interest income and excludes underwriting fees and commissions. Trading revenue (TEB) in the charts below excludes certain exited portfolios.

During the year, trading revenue (TEB) was positive for 100% of the days [(1)]. The largest gain of $20.8 million occurred on January 24, 2017. It was attributable to a large client transaction in our equity derivatives business. Average daily trading revenue (TEB) was $5.3 million during the year, and the average daily TEB was $1.2 million.

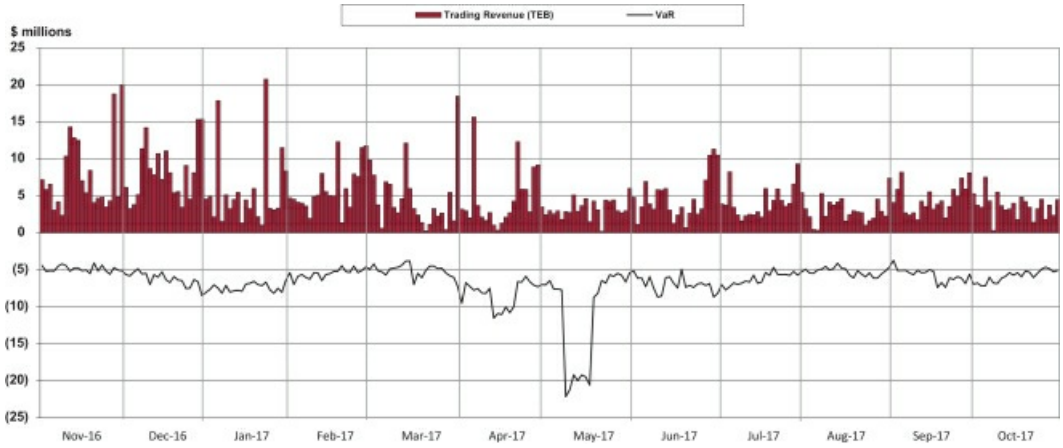
Frequency distribution of daily 2017 trading revenue (TEB)[(1)]

The histogram below presents the frequency distribution of daily trading revenue (TEB) for 2017.



Trading revenue (TEB)[(1)] *versus VaR*

The trading revenue (TEB) versus VaR graph below shows the current year's daily trading revenue (TEB) against the close of business day VaR measures. The large increase in VaR in May 2017 was the result of a large transaction in our equity underwriting business.



(1) Excludes certain month-end transfer pricing and other miscellaneous adjustments.

Stress testing and scenario analysis

Stress testing and scenario analyses are designed to add insight to possible outcomes of abnormal market conditions, and to highlight possible risk concentrations.

Our stress testing and scenario analyses measure the effect on portfolio values of a wide range of extreme moves in market risk factors. The methodology is a one-month stress test scenario and assumes that no actions are taken during the stress event to mitigate risk, reflecting the decreased liquidity that frequently accompanies market shocks.

Our scenario analysis approach simulates the impact on earnings of extreme market events up to a period of one month. Scenarios are developed using historical market data during periods of market disruption, or are based on the hypothetical occurrence of economic events, political events and natural disasters suggested and designed by economists, business leaders, and risk managers.

Among the historical scenarios are the 1994 period of U.S. Federal Reserve tightening, the 1998 Russian-led crisis, and the market events following the 2008 market crisis. The hypothetical scenarios include potential market crises originating in North America and Asia. In January 2017, we introduced a Eurozone bank crisis scenario, which considers a major European bank unexpectedly having capital problems with market expectations of a default, combined with political instability in Europe, while in September 2017, we introduced two scenarios based on escalating tensions in the Korean peninsula.

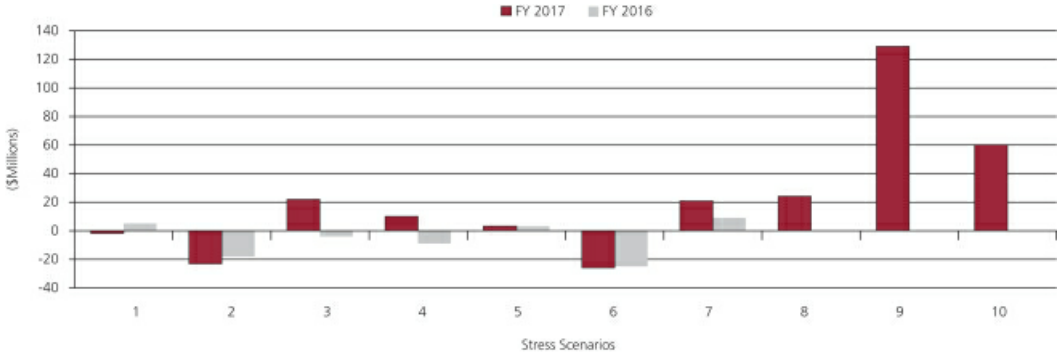
Below are our core stress test scenarios which we run daily to add insight into potential exposure levels under stress. Stress testing scenarios are periodically reviewed and amended as necessary to ensure they remain relevant.

Under stress test scenarios limit monitoring, limits are placed on the maximum acceptable loss for the aggregate portfolio, at the detailed portfolio level, and at specific asset class types.

Stress scenario list

1. Subprime crisis and Lehman collapse – 2008
2. U.S. Fed tightening – 1994
3. Russian debt crisis – 1998
4. U.S. sovereign debt default and downgrade
5. Chinese hard landing
6. Canada market crisis
7. U.S. protectionism
8. Eurozone bank crisis
9. Korean War – severe
10. Korean War – base

Average stress testing results for 2017 and 2016 for each of the 10 scenarios noted above from our trading positions are provided in the chart below:



Non-exchange traded commodity derivatives

In the normal course of business, we trade non-exchange traded commodity derivative contracts. We control and manage our non-exchange traded commodity derivatives risk through the VaR and stress testing methodologies described above. We use modelling techniques or other valuation methodologies to determine the fair value of these contracts.

The following table provides the fair value, based upon maturity of non-exchange traded commodity contracts:

$ millions, as at October 31, 2017	Positive	Negative	Net
Maturity less than 1 year	$ 345	$ 471	$ (126)
Maturity 1 – 3 years	356	236	120
Maturity 4 – 5 years	134	131	3
Maturity in excess of 5 years	343	11	332
	$ 1,178	$ 849	$ 329

Non-trading activities

Interest rate risk

Non-trading interest rate risk, which includes structural interest rate risk, consists primarily of risk inherent in ALM activities and the activities of domestic and foreign subsidiaries. Interest rate risk results from differences in the maturities or repricing dates of assets and liabilities, both on- and off-balance sheet, as well as from embedded optionality in retail products. This optionality arises predominantly from the prepayment exposures of mortgage products, mortgage commitments and some guaranteed investment certificates products with early redemption features. A variety of cash instruments and derivatives, primarily interest rate swaps, futures and options, are used to manage these risks.

The Board has oversight of the management of non-trading market risk, sets the market risk appetite and annually approves the market risk limits. GALCO and its subcommittee, the Asset and Liability Management Committee, regularly review structural market risk positions and provide senior management oversight.

In addition to Board-approved limits on earnings and economic value exposure, more granular management limits are in place to guide day-to-day management of this risk. The ALM group within Treasury is responsible for the ongoing management of structural market risk across the enterprise, with independent oversight and compliance with non-trading market risk policy provided by Capital Markets Risk Management.

ALM activities are designed to manage the effects of potential interest rate movements while balancing the cost of any hedging activities on the current net revenue. The net income sensitivity is a measure of the impact of potential changes in interest rates on the projected 12-month after-tax net income of a portfolio of assets, liabilities and off-balance sheet positions in response to prescribed parallel interest rate movements with interest rates floored at zero.

Our total non-trading interest rate risk exposure, as at October 31, 2017, is included in Note 17 to the consolidated financial statements. On- and off-balance sheet assets and liabilities are generally reported based on the earlier of their contractual repricing or maturity date; however, our disclosure includes the assumed interest rate sensitivity of certain assets and liabilities (including core deposits and credit card balances), reflecting how we manage interest rate risk. The interest rate position reported in Note 17 presents our risk exposure only at a point in time. The exposure can change depending on client preference for products and terms, including mortgage prepayment or other options exercised, and the nature of our management of the various and diverse portfolios that comprise the consolidated interest rate risk position.

The following table shows the potential impact over the next 12 months, adjusted for structural assumptions (excluding shareholders' equity in the calculation of the present value of shareholders' equity), estimated prepayments and early withdrawals, of an immediate and sustained 100 and 200 basis point increase or decrease in interest rates.

2017 included the exposures from the balances of CIBC Bank USA.

Interest rate sensitivity – non-trading

$ millions, as at October 31	2017			2016		
	CAD	**USD**	**Other**	CAD	USD	Other
100 basis point increase in interest rates						
Increase (decrease) in net income after-tax attributable to equity shareholders	**$ 119**	**$ 48**	**$ (11)**	$ 88	$ 11	$ 10
Increase (decrease) in present value of shareholders' equity	**(277)**	**(99)**	**(30)**	(176)	(79)	(6)
100 basis point decrease in interest rates						
Increase (decrease) in net income after-tax attributable to equity shareholders	**$ (209)**	**$ (57)**	**$ 11**	$ (153)	$ (14)	$ (12)
Increase (decrease) in present value of shareholders' equity	**184**	**15**	**30**	75	69	3
200 basis point increase in interest rates						
Increase (decrease) in net income after-tax attributable to equity shareholders	**$ 233**	**$ 74**	**$ (21)**	$ 145	$ 25	$ 24
Increase (decrease) in present value of shareholders' equity	**(512)**	**(223)**	**(59)**	(392)	(137)	(6)
200 basis point decrease in interest rates						
Increase (decrease) in net income after-tax attributable to equity shareholders	**$ (382)**	**$ (87)**	**$ 21**	$ (327)	$ (8)	$ (22)
Increase (decrease) in present value of shareholders' equity	**251**	**(124)**	**59**	(78)	90	8

Foreign exchange risk

Non-trading foreign exchange risk, also referred to as structural foreign exchange risk, arises primarily from our net investment in foreign operations. This risk, predominantly in U.S. dollars, is managed using derivative hedges and by funding the investments in matching currencies. We actively manage this position to ensure that the potential impact on our capital ratios is in accordance with the policy approved by the RMC, while giving consideration to the impact on earnings and shareholders' equity.

Structural foreign exchange risk is managed by Treasury under the guidance of GALCO. Compliance with trading and non-trading market risk policy, as well as market risk limits, is monitored daily by Capital Markets Risk Management.

A 1% appreciation of the Canadian dollar would reduce our shareholders' equity as at October 31, 2017 by approximately $120 million (2016: $84 million) on an after-tax basis.

Our non-functional currency denominated earnings are converted into the functional currencies through spot or forward foreign exchange transactions. Thus, there is no significant impact of exchange rate fluctuations on our consolidated statement of income.

We hedge certain foreign currency contractual expenses using derivatives which are accounted for as cash flow hedges. The net change in fair value of these hedging derivatives included in AOCI amounted to a gain of $12 million (2016: $20 million) on an after-tax basis. This amount will be released from AOCI to offset the hedged currency fluctuations as the expenses are incurred.

Derivatives held for ALM purposes

Where derivatives are held for ALM purposes, and when transactions meet the criteria specified under IFRS, we apply hedge accounting for the risks being hedged, as discussed in Notes 12 and 13 to the consolidated financial statements. Derivative hedges that do not qualify for hedge accounting treatment are referred to as economic hedges and are recorded at fair value on the consolidated balance sheet with changes in fair value recognized in the consolidated statement of income.

Economic hedges for other than FVO financial instruments may lead to income volatility because the hedged items are recorded either on a cost or amortized cost basis or recorded at fair value on the consolidated balance sheet with changes in fair value recognized in the consolidated statement of comprehensive income. This income volatility may not be representative of the overall risk.

Equity risk

Non-trading equity risk arises primarily in our strategy and corporate development activities and our merchant banking activities. The investments comprise public and private equities, investments in limited partnerships, and equity-accounted investments.

The following table provides the amortized cost and fair values of our non-trading equities:

$ millions, as at October 31		Amortized cost	Fair value
2017	**AFS securities**	**$ 364**	**$ 469**
	Equity-accounted investments in associates [1]	**313**	**356**
		$ 677	**$ 825**
2016	AFS securities	$ 221	$ 374
	Equity-accounted investments in associates [1]	386	421
		$ 607	$ 795

(1) Excludes our equity-accounted joint ventures. See Note 26 to the consolidated financial statements for further details.

Pension risk

A number of defined benefit pension plans are operated globally. As at October 31, 2017, our consolidated defined benefit pension plans were in a net funded status surplus position of $134 million, compared with $22 million as at October 31, 2016. The change in the net funded status position of our pension plans is disclosed in Note 19 to the consolidated financial statements.

Changes in net funded position of our pension plans are driven by a number of risk factors. These include changes in the fair value of plan assets and/or changes in the actuarial value of the pension benefits promised within our defined benefit plans.

The MRCC has been delegated fiduciary responsibility from the Board for pension plans. Pension market risk arises primarily from movements in interest rates, credit spreads, and equity prices.

Our Canadian pension plans represent approximately 90% of our pension plans, the most significant of which is our principal Canadian pension plan (the CIBC Pension Plan). The estimated impact on our Canadian defined benefit obligations of a 100 basis point change in the discount rate is disclosed in Note 19 to the consolidated financial statements.

The MRCC is responsible for sound governance and oversight, and delegates management authority to the Pension Benefits Management Committee (PBMC). An appropriate investment strategy for the CIBC Pension Plan is set through a Statement of Investment Objectives, Policies and Procedures.

Treasury's Pension Investment Management department ensures that the governance, management and operational frameworks of our pension plans' investment strategies align with desired risk profiles, with independent oversight and effective challenge provided by Risk Management.

The use of derivatives is permitted within the CIBC Pension Plan, in accordance with the derivatives policy that was approved by the PBMC, and the MRCC of the Board, to manage risk at the discretion of the Pension Investment Committee, a subcommittee of the PBMC. Risk reduction and mitigation strategies may include hedging of interest rate, currency, credit spread and/or equity risks. The derivatives policy also permits the use of derivatives to enhance plan returns.

The CIBC Pension Plan manages its foreign currency exposure through an overlay strategy. The fair value of derivatives used for the purposes of currency overlay is disclosed in Note 19 to the consolidated financial statements.

Liquidity risk

Liquidity risk is the risk of having insufficient cash or its equivalent in a timely and cost-effective manner to meet financial obligations as they come due. Common sources of liquidity risk inherent in banking services include unanticipated withdrawals of deposits, the inability to replace maturing debt, credit and liquidity commitments, and additional pledging or other collateral requirements.

CIBC's approach to liquidity risk management supports our business strategy, aligns with our risk appetite and adheres to regulatory expectations.

Our management strategies, objectives and practices are regularly reviewed to align with changes to the liquidity environment, including regulatory, business and/or market developments. Liquidity risk remains within CIBC's risk appetite.

Governance and management

We manage liquidity risk in a manner that enables us to withstand a liquidity stress event without an adverse impact on the viability of our operations. Actual and anticipated cash flows generated from on- and off-balance sheet exposures are routinely measured and monitored to ensure compliance with established limits. CIBC incorporates stress testing into its management and measurement of liquidity risk. Stress test results assist with the development of our liquidity assumptions, identification of potential constraints to funding planning, and contribute to the design of CIBC's contingency funding plan (CFP).

Liquidity risk is managed using the three lines of defence model, with the ongoing management of liquidity risk the responsibility of the Treasurer, supported by guidance from GALCO.

The Treasurer is responsible for managing the activities and processes required for measurement, reporting and monitoring of CIBC's liquidity risk position – this is the first line of defence.

The Liquidity and Non-Trading Market Risk group within Capital Markets Risk Management provides independent oversight, including the measurement, monitoring and control of liquidity risk, as the second line of defence.

Internal Audit provides the third line of defence, with independent assessment of the design and operating effectiveness of liquidity risk management controls, processes and systems.

The GALCO governs CIBC's liquidity risk management, ensuring the liquidity risk management methodologies, assumptions, and key metrics such as the Liquidity Horizon, are regularly reviewed and aligned with our operating regulatory requirements. The Liquidity Risk Management Committee, a subcommittee of GALCO, is responsible for supporting GALCO to ensure that CIBC's liquidity risk profile is comprehensively measured and managed in alignment with CIBC's strategic direction, risk appetite and regulatory requirements.

The RMC approves CIBC's liquidity risk management policy, and recommends liquidity risk tolerance to the Board through the risk appetite statement.

Policies

Our liquidity risk management policy requires a sufficient amount of available unencumbered liquid assets and diversified funding sources to meet anticipated liquidity needs in both normal and stressed conditions for a minimum time period as measured by CIBC's Liquidity Horizon. CIBC subsidiaries possessing unique liquidity characteristics, due to distinct business or jurisdictional requirements, maintain local liquidity policies in alignment with CIBC's liquidity risk management policy.

CIBC's pledging policy sets out consolidated limits for the pledging of CIBC's assets across a broad range of financial activities. Pledged asset limits ensure unencumbered liquid assets are available for liquidity purposes.

We maintain a detailed global CFP that sets out the strategies for addressing liquidity shortfalls in emergency and unexpected situations, and delineates the requirements necessary to manage a range of stress conditions, establishes lines of responsibility and invocation, articulates implementation and escalation procedures, and is aligned to CIBC's risk appetite. In order to reflect CIBC's organizational complexity, regional and subsidiary CFPs are maintained to respond to liquidity stresses unique to the jurisdictions within which CIBC operates, and support CIBC as an enterprise.

Risk measurement

Our liquidity risk tolerance is defined by our risk appetite statement, which is approved annually by the Board, and forms the basis for the delegation of liquidity risk authority to senior management. We use both regulatory-driven and internally developed liquidity risk metrics to measure our liquidity risk exposure. Internally, our liquidity position is measured using the Liquidity Horizon, which measures the future point in time when projected cumulative cash outflows exceed cash inflows under a combined CIBC-specific and market-wide stress scenario. Expected and potential anticipated inflows and outflows of funds generated from on- and off-balance sheet exposures are measured and monitored on a daily basis to ensure compliance with established limits. Contractual and behavioural on- and off-balance sheet cash flows under normal and stressed conditions are modelled and used to determine liquidity levels against the prescribed management target.

Our liquidity measurement system provides liquidity risk exposure reports that include the calculation of the Liquidity Horizon and regulatory reporting such as the LCR and Net Cumulative Cash Flow (NCCF). Our liquidity management also incorporates the monitoring of our unsecured wholesale funding position and funding capacity.

Risk appetite
CIBC's risk appetite statement ensures prudent management of liquidity risk by outlining qualitative considerations and quantitative metrics including the LCR and Liquidity Horizon. Quantitative metrics are measured and managed to a set of GALCO-approved management limits, which are more stringent than the limits established by the RMC.

Stress testing
A key component of our liquidity risk management, and complementing our assessments of liquidity risk exposure, is liquidity risk stress testing. Liquidity stress testing involves the application of name-specific and market-wide stress scenarios at varying levels of severity to assess the amount of available liquidity required to satisfy anticipated obligations as they come due. The scenarios model potential liquidity and funding requirements in the event of unsecured wholesale funding and deposit run-off, and expected contingent liquidity utilization, as well as liquid asset marketability. Results from stress testing are also incorporated as input into the CFP review process.

Liquid and encumbered assets
Available liquid assets include cash, high quality marketable securities and other assets that can be used to access funding in a timely fashion. Encumbered assets, composed of assets pledged as collateral and those assets that are deemed restricted due to legal, operational, or other purposes, are not considered as sources of available liquidity when measuring liquidity risk.

Unencumbered assets from on- and off-balance sheet sources are summarized as follows:

$ millions, as at October 31	Gross liquid assets		Encumbered liquid assets [2]		Unencumbered liquid assets	
	CIBC owned assets	Third-party assets	CIBC owned assets	Third-party assets	**2017** [1]	2016
Cash and due from banks	**$ 14,152** [3]	**$ –**	**$ 521**	**$ –**	**$ 13,631**	$ 13,665
Securities	**92,889** [4]	**93,201** [5]	**32,809**	**64,961**	**88,320**	91,378
National Housing Act mortgage-backed securities	**50,347** [6]	**–**	**20,247**	**–**	**30,100**	26,223
Mortgages	**17,414** [7]	**–**	**17,414**	**–**	**–**	–
Credit cards	**3,048** [8]	**–**	**3,048**	**–**	**–**	–
Other assets	**4,606** [9]	**–**	**4,420**	**–**	**186**	586
	$ 182,456	**$ 93,201**	**$ 78,459**	**$ 64,961**	**$ 132,237**	$ 131,852

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
(2) Excludes intraday pledges to the Bank of Canada related to the Large Value Transfer System as these are normally released at the end of the settlement cycle each day.
(3) Includes cash, non-interest-bearing deposits and interest-bearing deposits with contractual maturities of less than 30 days.
(4) Includes trading, AFS and FVO securities. Excludes securities in our structured credit run-off business, private debt and private equity securities of $530 million (2016: $944 million).
(5) Includes $5,035 million (2016: $5,433 million) of cash collateral received on securities borrowed, $40,383 million (2016: $28,377 million) of securities purchased under resale agreements, $46,753 million (2016: $38,657 million) of securities borrowed against securities lent, and $1,030 million (2016: $1,257 million) of securities received for derivative collateral.
(6) Includes securitized and transferred residential mortgages under the Canada Mortgage Bond Programme, and securitized mortgages that were not transferred to external parties. These are reported in Loans on our consolidated balance sheet.
(7) Includes mortgages in the Covered Bond Programme.
(8) Includes assets held in consolidated trusts supporting funding liabilities.
(9) Includes $4,420 million (2016: $6,022 million) of cash pledged for derivative collateral and $186 million (2016: $586 million) of gold and silver certificates.

The following table summarizes unencumbered liquid assets held by CIBC (parent) and significant subsidiaries:

$ millions, as at October 31	**2017**	2016
CIBC (parent)	**$ 92,846**	$ 96,027
CIBC World Markets Inc. [1]	**13,707**	18,387
Other subsidiaries [2]	**25,684**	17,438
	$ 132,237	$ 131,852

(1) Includes CIBC World Markets Inc. and CIBC World Markets Corp.
(2) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Asset haircuts and monetization depth assumptions under a liquidity stress scenario are applied to determine asset liquidity value. Haircuts take into consideration those margins applicable at central banks – such as the Bank of Canada and the Federal Reserve Bank – historical observations, and securities characteristics including asset type, issuer, credit ratings, currency and remaining term to maturity, as well as available regulatory guidance.

Our unencumbered liquid assets were comparable with the prior year, as an increase in National Housing Act mortgage-backed securities was offset by a decrease in securities. Furthermore, CIBC maintains access eligibility to the Bank of Canada Emergency Lending Assistance (ELA) program and the Federal Reserve Bank's Discount Window.

Asset encumbrance

In the course of CIBC's day-to-day operations, securities and other assets are pledged to secure obligations, participate in clearing and settlement systems and other collateral management purposes. For additional details, see Note 22 to the consolidated financial statements.

The following table provides a summary of our total encumbered and unencumbered assets:

					Encumbered		Unencumbered	
$ millions, as at October 31		CIBC owned assets	Third-party assets	Total assets	Pledged as collateral	Other	Available as collateral	Other
2017 [1]	**Cash and deposits with banks**	**$ 14,152**	**$ –**	**$ 14,152**	**$ 6**	**$ 515**	**$ 13,631**	**$ –**
	Securities	**93,419**	**–**	**93,419**	**32,809**	**–**	**60,080**	**530**
	Securities borrowed or purchased under resale agreements	**–**	**45,418**	**45,418**	**31,291**	**–**	**14,127**	**–**
	Loans, net of allowance	**356,734**	**–**	**356,734**	**40,773**	**2**	**30,100**	**285,859**
	Other							
	Derivative instruments	**24,342**	**–**	**24,342**	**–**	**–**	**–**	**24,342**
	Customers' liability under acceptances	**8,824**	**–**	**8,824**	**–**	**–**	**–**	**8,824**
	Land, building and equipment	**1,783**	**–**	**1,783**	**–**	**–**	**–**	**1,783**
	Goodwill	**5,367**	**–**	**5,367**	**–**	**–**	**–**	**5,367**
	Software and other intangible assets	**1,978**	**–**	**1,978**	**–**	**–**	**–**	**1,978**
	Investments in equity-accounted associates and joint ventures	**715**	**–**	**715**	**–**	**–**	**–**	**715**
	Other assets	**12,532**	**–**	**12,532**	**4,420**	**–**	**186**	**7,926**
		$ 519,846	**$ 45,418**	**$ 565,264**	**$ 109,299**	**$ 517**	**$ 118,124**	**$ 337,324**
2016	Cash and deposits with banks	$ 14,165	$ –	$ 14,165	$ 11	$ 489	$ 13,665	$ –
	Securities	87,423	–	87,423	23,690	–	62,789	944
	Securities borrowed or purchased under resale agreements	–	33,810	33,810	22,514	–	11,296	–
	Loans, net of allowance	307,417	–	307,417	39,468	26	26,223	241,700
	Other							
	Derivative instruments	27,762	–	27,762	–	–	–	27,762
	Customers' liability under acceptances	12,364	–	12,364	–	–	–	12,364
	Land, building and equipment	1,898	–	1,898	–	–	–	1,898
	Goodwill	1,539	–	1,539	–	–	–	1,539
	Software and other intangible assets	1,410	–	1,410	–	–	–	1,410
	Investments in equity-accounted associates and joint ventures	766	–	766	–	–	–	766
	Other assets	12,803	–	12,803	6,022	–	586	6,195
		$ 467,547	$ 33,810	$ 501,357	$ 91,705	$ 515	$ 114,559	$ 294,578

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Restrictions on the flow of funds

Our subsidiaries are not subject to significant restrictions that would prevent transfers of funds, dividends or capital distributions. However, certain subsidiaries have separate regulatory capital and liquidity requirements, as established by applicable banking and securities regulators.

We monitor and manage our capital and liquidity requirements across these entities to ensure that resources are used efficiently and entities are in compliance with local regulatory and policy requirements.

Liquidity coverage ratio

The objective of the LCR is to promote short-term resilience of a bank's liquidity risk profile, ensuring that it has adequate unencumbered high quality liquid resources to meet its liquidity needs in a 30-day acute stress scenario. Canadian banks are required to achieve a minimum LCR value of 100%. CIBC is in compliance with this requirement.

In accordance with the calibration methodology contained in OSFI's liquidity adequacy requirements (LAR) guidelines, CIBC reports the LCR to OSFI on a monthly basis. The ratio is calculated as follows:

$$\frac{\text{Total High Quality Liquid Assets (HQLA)}}{\text{Total net cash outflows over the next 30 calendar days}} \geq 100\%$$ [3]

The LCR's numerator consists of unencumbered HQLA, which follow an OSFI-defined set of eligibility criteria that considers fundamental and market-related characteristics, and relative ability to operationally monetize assets on a timely basis during a period of stress. CIBC's centrally-managed liquid asset portfolio includes those liquid assets reported in the HQLA, such as central government treasury bills and bonds, central bank deposits and high-rated sovereign, agency, provincial, and corporate securities. Asset eligibility limitations inherent in the LCR metric do not necessarily reflect CIBC's internal assessment of its ability to monetize its marketable assets under stress.

The ratio's denominator reflects net cash outflows expected in the LCR's stress scenario over the 30-calendar-day period. Expected cash outflows represent LCR-defined withdrawal or draw-down rates applied against outstanding liabilities and off-balance sheet commitments, respectively. Significant contributors to CIBC's LCR outflows include business and financial institution deposit run-off, draws on undrawn lines of credit and unsecured debt maturities. Cash outflows are partially offset by cash inflows, which are calculated at LCR-prescribed inflow rates, and include performing loan repayments and non-HQLA marketable assets.

The LCR is disclosed using a standard OSFI-prescribed disclosure template, calculated based on the average of daily positions.

$ millions, average of the three months ended October 31, 2017		Total unweighted value (1)	Total weighted value (2)
HQLA			
1	HQLA	**n/a**	**$ 98,603**
Cash outflows			
2	Retail deposits and deposits from small business customers, of which:	**$ 142,230**	**9,277**
3	Stable deposits	**70,658**	**2,120**
4	Less stable deposits	**71,572**	**7,157**
5	Unsecured wholesale funding, of which:	**123,875**	**63,069**
6	Operational deposits (all counterparties) and deposits in networks of cooperative banks	**44,738**	**10,783**
7	Non-operational deposits (all counterparties)	**60,401**	**33,550**
8	Unsecured debt	**18,736**	**18,736**
9	Secured wholesale funding	**n/a**	**4,574**
10	Additional requirements, of which:	**81,252**	**22,154**
11	Outflows related to derivative exposures and other collateral requirements	**11,382**	**8,153**
12	Outflows related to loss of funding on debt products	**2,669**	**2,669**
13	Credit and liquidity facilities	**67,201**	**11,332**
14	Other contractual funding obligations	**2,299**	**2,299**
15	Other contingent funding obligations	**254,432**	**4,450**
16	Total cash outflows	**n/a**	**105,823**
Cash inflows			
17	Secured lending (e.g. reverse repos)	**63,057**	**7,798**
18	Inflows from fully performing exposures	**15,420**	**7,201**
19	Other cash inflows	**8,487**	**8,487**
20	Total cash inflows	**$ 86,964**	**$ 23,486**
			Total adjusted value
21	Total HQLA	**n/a**	**$ 98,603**
22	Total net cash outflows	**n/a**	**$ 82,337**
23	LCR	**n/a**	**120 %**
$ millions, average of the three months ended July 31, 2017			Total adjusted value
24	Total HQLA	n/a	$ 102,461
25	Total net cash outflows	n/a	$ 81,908
26	LCR	n/a	125 %

(1) Unweighted inflow and outflow values are calculated as outstanding balances maturing or callable within 30 days of various categories or types of liabilities, off-balance sheet items or contractual receivables.
(2) Weighted values are calculated after the application of haircuts (for HQLA) and inflow and outflow rates prescribed by OSFI.
n/a Not applicable as per the LCR common disclosure template.

Our average LCR as at October 31, 2017 decreased to 120% from 125% as at July 31, 2017, due to modest decreases in HQLA, which were the result of funding requirements associated with the acquisition of The PrivateBank. Multiple other factors that are part of normal business operations also contribute to the LCR.

CIBC considers the impact of its business decisions on the LCR and other liquidity risk metrics that it regularly monitors as part of a robust liquidity risk management function. Variables that can impact the ratio month-over-month include, but are not limited to, items such as wholesale funding activities and maturities, strategic balance sheet initiatives, and transactions and environmental considerations affecting collateral. Furthermore, CIBC reports the LCR to OSFI in multiple currencies, and thus measures the extent of potential currency mismatch under the ratio. CIBC predominantly operates in major currencies with deep and fungible foreign exchange markets.

Reporting of the LCR is calibrated centrally by CIBC's Treasury function, in conjunction with CIBC's SBUs and other functional groups.

Funding

CIBC funds its operations with client-sourced deposits, supplemented with a wide range of wholesale funding.

CIBC's principal approach aims to fund the balance sheet with deposits primarily raised from personal and commercial banking channels. Personal deposits accounted for $159.3 billion as at October 31, 2017 (2016: $148.1 billion). CIBC maintains a foundation of relationship-based core deposits, whose stability is regularly evaluated through internally developed statistical assessments.

We routinely access a range of short-term and long-term secured and unsecured funding sources diversified by geography, depositor type, instrument, currency and maturity. We raise long-term funding from existing programs including covered bonds, asset securitizations and unsecured debt.

CIBC continuously evaluates opportunities to diversify into new funding products and investor segments in an effort to maximize funding flexibility and minimize concentration and financing costs. We regularly monitor wholesale funding levels and concentrations to internal limits consistent with our desired liquidity risk profile.

GALCO and RMC review and approve CIBC's funding plan, which incorporates projected asset and liability growth, funding maturities, and output from our liquidity position forecasting.

The following table provides the contractual maturities at carrying values of CIBC's wholesale funding sources:

$ millions, as at October 31, 2017	Less than 1 month	1 – 3 months	3 – 6 months	6 – 12 months	Less than 1 year total	1 – 2 years	Over 2 years	Total
Deposits from banks	**$ 2,491**	**$ 448**	**$ 132**	**$ –**	**$ 3,071**	**$ –**	**$ –**	**$ 3,071**
Certificates of deposit and commercial paper	**5,325**	**11,393**	**18,268**	**12,947**	**47,933**	**7,239**	**–**	**55,172**
Bearer deposit notes and bankers' acceptances	**1,165**	**1,629**	**2,475**	**58**	**5,327**	**–**	**–**	**5,327**
Asset-backed commercial paper	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**
Senior unsecured medium-term notes	**–**	**2,229**	**4,952**	**6,119**	**13,300**	**6,062**	**14,983**	**34,345**
Senior unsecured structured notes	**–**	**–**	**8**	**312**	**320**	**–**	**–**	**320**
Covered bonds/asset-backed securities								
Mortgage securitization	**–**	**570**	**1,312**	**1,546**	**3,428**	**4,911**	**12,167**	**20,506**
Covered bonds	**–**	**856**	**–**	**1,516**	**2,372**	**4,660**	**10,382**	**17,414**
Cards securitization	**–**	**–**	**–**	**967**	**967**	**1,290**	**791**	**3,048**
Subordinated liabilities	**–**	**–**	**–**	**38**	**38**	**–**	**3,171**	**3,209**
Other	**–**	**–**	**–**	**–**	**–**	**45**	**19**	**64**
	$ 8,981	**$ 17,125**	**$ 27,147**	**$ 23,503**	**$ 76,756**	**$ 24,207**	**$ 41,513**	**$ 142,476**
Of which:								
Secured	**$ –**	**$ 1,426**	**$ 1,312**	**$ 4,029**	**$ 6,767**	**$ 10,861**	**$ 23,340**	**$ 40,968**
Unsecured	**8,981**	**15,699**	**25,835**	**19,474**	**69,989**	**13,346**	**18,173**	**101,508**
	$ 8,981	**$ 17,125**	**$ 27,147**	**$ 23,503**	**$ 76,756**	**$ 24,207**	**$ 41,513**	**$ 142,476**
October 31, 2016	$ 12,701	$ 17,980	$ 26,950	$ 21,035	$ 78,666	$ 17,596	$ 39,727	$ 135,989

CIBC's wholesale funding is diversified by currency as demonstrated in the table that follows:

$ billions, as at October 31	2017		2016	
CAD	**$ 53.2**	**37 %**	$ 60.4	44 %
USD	**72.6**	**51**	56.6	42
Other	**16.7**	**12**	19.0	14
	$ 142.5	**100 %**	$ 136.0	100 %

Our funding volumes increased relative to 2016 in response to CIBC's business and liquidity strategies. We do not anticipate any events, commitments or demands that will materially impact our ability to raise funds through deposits or wholesale funding.

Funding plan

Our three-year funding plan is updated at least quarterly, or in response to material changes in underlying assumptions. The plan incorporates projected asset and liability growth from our ongoing operations, and the output from our liquidity position forecasting.

Credit ratings

CIBC's access to and cost of wholesale funding are dependent on multiple factors, among them credit ratings provided by rating agencies. Rating agencies' opinions are based upon internal methodologies, and are subject to change based on factors including, but not limited to, financial strength, competitive position and liquidity positioning. On May 10, 2017, Moody's downgraded the ratings of the big six Canadian banks by one notch, including CIBC. On October 27, 2017, Fitch affirmed CIBC's ratings, while revising the outlook to negative from stable. The negative outlook reflects Fitch's view that CIBC is the most exposed to a potential housing correction and the health of the Canadian consumer. We do not expect a material impact on our funding costs or ability to access funding as a result of these changes.

Our credit ratings are summarized in the following table:

	Short-term debt		Senior debt		Subordinated indebtedness		Subordinated indebtedness – NVCC (1)		Preferred shares – NVCC (1)		
As at October 31	**2017**	2016	**2017**	2016	**2017**	2016	**2017**	2016	**2017**	2016	**Outlook**
DBRS	**R-1(H)**	R-1(H)	**AA**	AA	**AA(L)**	AA(L)	**A(L)**	A(L)	**Pfd-2**	Pfd-2	**Negative** (2)
Fitch	**F1+**	F1+	**AA-**	AA-	**A+**	A+	**A+**	A+	**n/a**	n/a	**Negative**
Moody's	**P-1**	P-1	**A1**	Aa3	**Baa1**	A3	**Baa2**	Baa1	**Baa3**	Baa2	**Negative** (3)
S&P	**A-1**	A-1	**A+**	A+	**BBB+**	BBB+	**BBB**	BBB	**P-3(H)**	P-3(H)	**Stable**

(1) Comprises instruments which are treated as NVCC in accordance with OSFI's capital adequacy guidelines.
(2) Negative outlook applies to short-term debt, senior debt, and subordinated indebtedness ratings.
(3) Negative outlook only applies to senior debt rating.
n/a Not available.

Additional collateral requirements for rating downgrades

We are required to deliver collateral to certain derivative counterparties in the event of a downgrade to our current credit risk rating. The collateral requirement is based on MTM exposure, collateral valuations, and collateral arrangement thresholds as applicable. The following table presents the additional cumulative collateral requirements for rating downgrades:

$ billions, as at October 31	2017	2016
One-notch downgrade	**$ –**	$ –
Two-notch downgrade	**0.1**	0.2
Three-notch downgrade	**0.3**	0.4

Other regulatory liquidity standards

In May 2014, OSFI published the final LAR guideline, which was driven by the BCBS' global liquidity requirements, and includes the LCR, net stable funding ratio (NSFR) and other additional liquidity monitoring tools. It is further supplemented by the OSFI-designed supervisory tool known as the NCCF metric. OSFI will use the LAR and associated metrics to assess individual banks' liquidity adequacy.

On October 31, 2014, the BCBS published its final NSFR guideline. In October 2017, OSFI provided updated draft NSFR guidance and is engaging industry participants to review its NSFR implementation plans and to clarify details of the NSFR and its application to the Canadian market.

Consistent with the requirements above, we submit LCR and NCCF reports to OSFI on a monthly basis and the NSFR report on a quarterly basis. We provide the LCR and NSFR reports to the BCBS twice annually.

Contractual obligations

Contractual obligations give rise to commitments of future payments affecting our short- and long-term liquidity and capital resource needs. These obligations include financial liabilities, credit and liquidity commitments, and other contractual obligations.

Assets and liabilities

The following table provides the contractual maturity profile of our on-balance sheet assets, liabilities and equity at their carrying values. Contractual analysis is not representative of CIBC's liquidity risk exposure, however this information serves to inform CIBC's management of liquidity risk, and provide input when modelling a behavioural balance sheet.

$ millions, as at October 31, 2017 [1]	Less than 1 month	1 – 3 months	3 – 6 months	6 – 9 months	9 – 12 months	1 – 2 years	2 – 5 years	Over 5 years	No specified maturity	Total
Assets										
Cash and non-interest-bearing deposits with banks	**$ 3,440**	**$ –**	**$ –**	**$ –**	**$ –**	**$ –**	**$ –**	**$ –**	**$ –**	**$ 3,440**
Interest-bearing deposits with banks	**10,712**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**10,712**
Securities	**3,862**	**3,544**	**2,770**	**4,059**	**1,608**	**7,197**	**19,407**	**19,480**	**31,492**	**93,419**
Cash collateral on securities borrowed	**5,035**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**5,035**
Securities purchased under resale agreements	**24,938**	**4,248**	**3,127**	**546**	**83**	**7,441**	**–**	**–**	**–**	**40,383**
Loans										
Residential mortgages	**1,559**	**3,069**	**7,101**	**12,727**	**11,144**	**43,675**	**121,384**	**6,214**	**398**	**207,271**
Personal	**662**	**571**	**966**	**937**	**752**	**201**	**845**	**2,143**	**33,860**	**40,937**
Credit card	**260**	**520**	**780**	**780**	**780**	**3,119**	**6,139**	**–**	**–**	**12,378**
Business and government	**8,750**	**3,091**	**2,927**	**4,348**	**3,620**	**13,375**	**31,729**	**15,469**	**14,457**	**97,766**
Allowance for credit losses	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**(1,618)**	**(1,618)**
Derivative instruments	**1,827**	**3,061**	**1,430**	**1,255**	**1,199**	**2,759**	**5,644**	**7,167**	**–**	**24,342**
Customers' liability under acceptances	**7,588**	**1,180**	**47**	**8**	**1**	**–**	**–**	**–**	**–**	**8,824**
Other assets	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**22,375**	**22,375**
	$ 68,633	**$ 19,284**	**$ 19,148**	**$ 24,660**	**$ 19,187**	**$ 77,767**	**$ 185,148**	**$ 50,473**	**$ 100,964**	**$ 565,264**
October 31, 2016	$ 55,954	$ 21,567	$ 17,950	$ 16,783	$ 16,550	$ 66,771	$ 164,778	$ 48,505	$ 92,499	$ 501,357
Liabilities										
Deposits [2]	**$ 19,850**	**$ 29,462**	**$ 39,576**	**$ 21,922**	**$ 22,671**	**$ 33,912**	**$ 44,996**	**$ 6,881**	**$ 220,436**	**$ 439,706**
Obligations related to securities sold short	**13,713**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**13,713**
Cash collateral on securities lent	**2,024**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**2,024**
Obligations related to securities sold under repurchase agreements	**26,415**	**1,504**	**52**	**–**	**–**	**–**	**–**	**–**	**–**	**27,971**
Derivative instruments	**1,851**	**2,764**	**1,237**	**1,307**	**1,230**	**2,897**	**4,840**	**7,145**	**–**	**23,271**
Acceptances	**7,592**	**1,180**	**47**	**8**	**1**	**–**	**–**	**–**	**–**	**8,828**
Other liabilities	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**15,305**	**15,305**
Subordinated indebtedness	**–**	**–**	**–**	**–**	**38**	**–**	**–**	**3,171**	**–**	**3,209**
Equity	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**31,237**	**31,237**
	$ 71,445	**$ 34,910**	**$ 40,912**	**$ 23,237**	**$ 23,940**	**$ 36,809**	**$ 49,836**	**$ 17,197**	**$ 266,978**	**$ 565,264**
October 31, 2016	$ 59,908	$ 33,289	$ 40,961	$ 21,100	$ 23,035	$ 31,847	$ 47,923	$ 21,033	$ 222,261	$ 501,357

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

(2) Comprises $159.3 billion (2016: $148.1 billion) of personal deposits of which $149.5 billion (2016: $143.3 billion) are in Canada and $9.8 billion (2016: $4.8 billion) are in other countries; $266.6 billion (2016: $229.7 billion) of business and government deposits and secured borrowings of which $192.7 billion (2016: $171.9 billion) are in Canada and $73.9 billion (2016: $57.8 billion) are in other countries; and $13.8 billion (2016: $17.8 billion) of bank deposits of which $6.6 billion (2016: $6.8 billion) are in Canada and $7.2 billion (2016: $11.0 billion) are in other countries.

The changes in the contractual maturity profile were primarily due to the natural migration of maturities and also reflect the impact of our regular business activities.

Credit-related commitments

The following table provides the contractual maturity of notional amounts of credit-related commitments. Since a significant portion of commitments are expected to expire without being drawn upon, the total of the contractual amounts is not representative of future liquidity requirements.

$ millions, as at October 31, 2017 [1]	Less than 1 month	1 – 3 months	3 – 6 months	6 – 9 months	9 – 12 months	1 – 2 years	2 – 5 years	Over 5 years	No specified maturity [2]	Total
Securities lending [3]	**$ 36,541**	**$ 4,635**	**$ 5,577**	**$ –**	**$ –**	**$ –**	**$ –**	**$ –**	**$ –**	**$ 46,753**
Unutilized credit commitments	**770**	**5,897**	**1,710**	**3,385**	**2,358**	**13,943**	**36,030**	**1,889**	**143,182**	**209,164**
Backstop liquidity facilities	**–**	**8,711**	**1,239**	**1,026**	**90**	**116**	**–**	**13**	**–**	**11,195**
Standby and performance letters of credit	**1,682**	**2,519**	**2,131**	**2,623**	**1,629**	**913**	**1,249**	**18**	**–**	**12,764**
Documentary and commercial letters of credit	**25**	**103**	**67**	**8**	**6**	**4**	**1**	**–**	**–**	**214**
Other	**269**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**269**
	$ 39,287	**$ 21,865**	**$ 10,724**	**$ 7,042**	**$ 4,083**	**$ 14,976**	**$ 37,280**	**$ 1,920**	**$ 143,182**	**$ 280,359**
October 31, 2016	$ 28,902	$ 23,039	$ 9,515	$ 4,484	$ 3,483	$ 7,049	$ 35,402	$ 1,393	$ 133,514	$ 246,781

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
(2) Includes $111.7 billion (2016: $105.0 billion) of personal, home equity and credit card lines, which are unconditionally cancellable at our discretion.
(3) Excludes securities lending of $2.0 billion (2016: $2.5 billion) for cash because it is reported on the consolidated balance sheet.

Other contractual obligations

The following table provides the contractual maturities of other contractual obligations affecting our funding needs:

$ millions, as at October 31, 2017 [1]	Less than 1 month	1 – 3 months	3 – 6 months	6 – 9 months	9 – 12 months	1 – 2 years	2 – 5 years	Over 5 years	Total
Operating leases	**$ 40**	**$ 80**	**$ 120**	**$ 119**	**$ 118**	**$ 448**	**$ 1,107**	**$ 3,229**	**$ 5,261**
Purchase obligations [2]	**145**	**290**	**217**	**159**	**166**	**521**	**693**	**122**	**2,313**
Pension contributions [3]	**15**	**31**	**46**	**46**	**46**	**–**	**–**	**–**	**184**
Underwriting commitments	**424**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**424**
Investment commitments	**1**	**4**	**3**	**–**	**–**	**4**	**5**	**126**	**143**
	$ 625	**$ 405**	**$ 386**	**$ 324**	**$ 330**	**$ 973**	**$ 1,805**	**$ 3,477**	**$ 8,325**
October 31, 2016	$ 331	$ 325	$ 365	$ 396	$ 356	$ 1,080	$ 1,747	$ 1,532	$ 6,132

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
(2) Obligations that are legally binding agreements whereby we agree to purchase products or services with specific minimum or baseline quantities defined at fixed, minimum or variable prices over a specified period of time are defined as purchase obligations. Purchase obligations are included through to the termination date specified in the respective agreements, even if the contract is renewable. Many of the purchase agreements for goods and services include clauses that would allow us to cancel the agreement prior to expiration of the contract within a specific notice period. However, the amount above includes our obligations without regard to such termination clauses (unless actual notice of our intention to terminate the agreement has been communicated to the counterparty). The table excludes purchases of debt and equity instruments that settle within standard market time frames.
(3) Includes estimated minimum funding contributions for our funded defined benefit pension plans in Canada, the U.S., the U.K., and the Caribbean. Estimated minimum funding contributions are included only for the next annual period as the minimum contributions are affected by various factors, such as market performance and regulatory requirements, and therefore are subject to significant variability.

Other risks

Strategic risk

Strategic risk is the risk of ineffective or improper implementation of business strategies, including mergers and acquisitions. It includes the potential financial loss due to the failure of organic growth initiatives or failure to respond appropriately to changes in the business environment. For additional details on acquisition risk, see the "Top and emerging risks" section.

Oversight of strategic risk is the responsibility of the ExCo and the Board. At least annually, the CEO outlines the process and presents the strategic business plan to the Board for review and approval. The Board reviews the plan in light of management's assessment of emerging market trends, the competitive environment, potential risks and other key issues.

One of the tools for measuring, monitoring and controlling strategic risk is attribution of economic capital against this risk. Our economic capital models include a strategic risk component for those businesses utilizing capital to fund an acquisition or a significant organic growth strategy.

Insurance risk

Insurance risk is the risk of losses arising from the uncertainty of the timing and size of insurance claims. Unfavourable actual experience could emerge due to adverse fluctuations in timing, size and frequency of actual claims (e.g. mortality, morbidity), policyholder behaviour (e.g. cancellation of coverage), or associated expenses.

Insurance contracts provide financial compensation to the beneficiary in the event of an insured risk occurring in exchange for premiums. We are exposed to insurance risk in our life insurance business and in our reinsurance business within the respective subsidiaries.

Senior management of the insurance and reinsurance subsidiaries have primary responsibility for managing insurance risk with oversight by Risk Management. The insurance and reinsurance subsidiaries also have their own boards of directors, as well as each having an independent Appointed Actuary who provide additional input to risk management oversight. Processes and oversight are in place to manage the risk to our insurance business. Underwriting risk on business assumed is managed through risk policies that limit exposure to an individual life, to certain types of business and to regions.

Our risk governance practices ensure strong independent oversight and control of risk within the insurance businesses. The subsidiaries' boards outline the internal risk and control structure to manage insurance risk, which includes risk, capital and control policies, processes as well as limits and governance. Senior management of the insurance and reinsurance subsidiaries and Risk Management attend the subsidiaries' board meetings.

Operational risk

Operational risk is the risk of loss resulting from people, inadequate or failed internal processes and systems, or from external events.

As part of the normal course of business, CIBC is exposed to operational risks in its business activities and external environment. Our comprehensive Operational Risk Management Policy, supported by policies, tools, systems and governance structure, is used to mitigate operational risks. We continuously monitor our operational risk profile to ensure we are operating within CIBC's approved risk appetite.

Governance and management

Operational risk is managed through the three lines of defence model. Frontline businesses form our first line of defence. Their primary responsibility is the day-to-day management of operational risk inherent in their products and activities.

The second line of defence includes Risk Management and other oversight functions, which are responsible for monitoring and providing independent oversight of operational risk matters in their respective risk types and for providing effective challenges to business lines' operational risk assessments and mitigation activities.

Internal Audit, our third line of defence, assesses and provides an independent opinion on the design and operating effectiveness of CIBC's management of operational risk and the strength of the internal control environment.

Global Operational Risk Management (GORM) oversees CIBC's operational risk exposures. The Head of GORM chairs the Operational Risk and Control Committee (ORCC), a subcommittee of the GRC, with representation from SBUs and functional groups. The ORCC is a management forum providing oversight of CIBC's operational risk and internal control environment. Its Chair reports significant operational risk matters to the GRC and RMC of the Board.

Operational risk management approach

Information transparency, timely escalation, clear accountability and a robust internal control environment are the principles forming the basis of the Operational Risk Management Policy which supports and governs the processes of identifying, measuring, mitigating, monitoring, and reporting operational risks. We mitigate operational losses by consistently applying risk-based approaches and employing risk-specific assessment tools. Regular review of our risk governance structure ensures clarity of, and ownership in, key risk areas.

Risk measurement

CIBC's business lines regularly conduct reviews of operational risks inherent in their products, services or processes and assess ways to mitigate and manage them in alignment with CIBC's risk appetite. These reviews include using business process maps, risk and control self-assessments, audit findings, operational risk scenarios, past internal and external loss events, key risk indicators trends and change initiative risk assessments to form a holistic operational risk profile for the business lines. Under the three lines of defence model, GORM and relevant oversight functions and experts independently challenge business lines' risk assessments and mitigation actions.

Operational loss is one of the key operational risk metrics informing us of areas of heightened risk. We collect and analyze internal operational loss event data for themes and trends. The occurrence of a material or potential material loss triggers an investigation to determine the root causes of the incident and the effectiveness of existing mitigating controls, as well as the identification of any additional mitigating actions. Additionally, we monitor the external environment for emerging or potential risks to CIBC. The analysis of material operational risk events is performed by the first line of defence and the outputs of the analysis are subject to formal independent challenge by our second line of defence. The analysis of material operational risk events forms one component of our ongoing operational risk reporting to senior management and the Board. See Note 23 to our consolidated financial statements for a description of our significant legal proceedings.

Business lines conduct change initiative risk assessment on risks inherent to the initiatives (for example, new product launches or major system changes). Identified risks and related mitigation actions are independently challenged by GORM and other oversight functions as the second lines of defence to ensure residual risks remain within the approved risk appetite.

We use both the AMA, a risk-sensitive method prescribed by the BCBS, and the Standardized Method to quantify our operational risk exposure in the form of operational risk regulatory capital. Our AMA model determines operational risk capital using historical loss data, projected loss data from our loss scenario analysis and the assessment of internal control risks impacting our business environment. The standardized method is also used as agreed with local regulators. Our current AMA model, along with the standardized method, was approved for capital reporting commencing in fiscal 2016.

Under AMA, operational risk capital represents the "worst-case loss" within a 99.9% confidence level. The aggregate risk to CIBC is less than the sum of the individual parts, as the likelihood that all business groups across all regions experience a worst-case loss in every loss category in the same year is extremely low. To adjust for the fact that all risks are not 100% correlated, we incorporate a portfolio effect to ensure that the aggregated risk is representative of the total bank-wide risk. The process for determining correlations considers both internal and external historical correlations and takes into account the uncertainty surrounding correlation estimates.

Under Basel AMA, the recognition of insurance as a risk mitigant may be considered in the measure of operational risk used for regulatory minimum capital requirements. Although our current insurance policies are tailored to provide earnings protection from potential high-severity losses, we do not reflect mitigation through insurance or any other risk transfer mechanism in our AMA model.

Back-testing

To ensure the AMA model is performing effectively and maintaining predictability, we back-test capital calculation results each quarter. The back-testing exercise assesses the model's performance against internal loss data. The overall AMA methodology is also independently validated by the Model Validation group to ensure that the applied assumptions are reasonable. The validation exercise includes modelling the relevant internal loss data using alternative methods and comparing the results to the model. The model will be updated to address identified gaps, as appropriate.

Risk mitigation
Our primary tool for mitigating operational risk exposure is a robust internal control environment. The internal Control Framework outlines key principles, structure and processes underpinning CIBC's approach to managing risks through internal controls. Under the Framework, all key controls are subject to ongoing testing and review to ensure they effectively mitigate our operational risk exposures. In addition, our corporate insurance program affords extra protection from loss while our global business continuity management program ensures that under conditions of interruption or crisis, CIBC's critical business functions could continue to operate and normal operations are restored in a highly effective and efficient manner.

Risk monitoring and reporting
Both forward-looking key risk indicators (KRIs) as well as backward-looking key performance indicators provide insight into CIBC's risk exposure and are used to monitor the main drivers of exposure associated with key operational risks and their adherence to the operational risk appetite. KRIs assist in early detection of potential operational risk events by identifying unfavourable trends and highlighting controls that may not be functioning effectively. Business lines are required to identify and implement KRIs for material risk exposures on an ongoing basis. Escalation triggers are used to highlight risk exposures requiring additional attention from senior management and/or the Board. The second line of defence challenges the selection of KRIs and the appropriateness of thresholds.

Our risk monitoring processes support a transparent risk-reporting program, informing both senior management and the Board on our control environment, operational risk exposures, and mitigation strategies.

Technology, information and cyber security risk
We are also exposed to cyber threats and the associated financial, reputation and business interruption risks. For additional information on these risks and our mitigation strategies, see the "Top and emerging risks" section.

Reputation and legal risk
Our reputation and financial soundness are of fundamental importance to us and to our clients, shareholders and employees.

Reputation risk is the risk of negative publicity regarding our business conduct or practices which, whether true or not, could significantly harm our reputation as a leading financial institution, or could materially and adversely affect our business, operations or financial condition.

Legal risk is risk of financial loss arising from one or more of the following factors: (a) civil, criminal or regulatory enforcement proceedings against us; (b) our failure to correctly document, enforce or comply with contractual obligations; (c) failure to comply with our legal obligations to customers, investors, employees, counterparties or other stakeholders; (d) failure to take appropriate legal measures to protect our assets or security interests; or (e) vicarious misconduct by our employees or agents.

The RMC, together with the Reputation and Legal Risks Committee and GRC, provides oversight of the management of reputation and legal risks. The identification, consideration and prudent, proactive management of potential reputation and legal risks is a key responsibility of CIBC and all of our employees.

Our Global Reputation and Legal Risks Policy sets standards for safeguarding our reputation through pro-active identification, measurement and management of potential reputation and legal risks. The policy is supplemented by business procedures for identifying and escalating transactions to the Reputation and Legal Risks Committee that could pose material reputation risk and/or legal risk.

Regulatory compliance risk
Regulatory compliance risk is the risk of CIBC's potential non-conformance with applicable regulatory requirements.

Our regulatory compliance philosophy is to manage and mitigate regulatory compliance risk through the promotion of a strong risk and compliance culture within the parameters established by CIBC's Risk Appetite Statement. The foundation of this approach is a comprehensive Regulatory Compliance Management (RCM) framework. The RCM framework, owned by the Chief Compliance Officer and approved by the RMC of the Board, maps regulatory requirements to internal policies, procedures and controls that govern regulatory compliance.

Our Compliance department is responsible for the development and maintenance of a comprehensive regulatory compliance program, including oversight of the RCM framework. This department is independent of business management and reports regularly to the RMC of the Board.

Primary responsibility for compliance with all applicable regulatory requirements rests with senior management of the business and functional groups, and extends to all employees. The Compliance department's activities support those groups, with particular emphasis on regulatory requirements that govern the relationship between CIBC and its clients, that help protect the integrity of the capital markets, or that relate to money laundering and terrorist financing.

See the "Regulatory developments" section for further details.

Environmental risk
Environmental risk is the risk of financial loss or damage to reputation associated with environmental issues, whether arising from our credit and investment activities or related to our own operations. Our corporate environmental policy, originally approved by the Board in 1993 and most recently updated and approved by the RMC in 2015, commits CIBC to responsible conduct in all activities to protect and conserve the environment; safeguard the interests of all stakeholders from unacceptable levels of environmental risk; and support the principles of sustainable development.

The policy is addressed by an integrated Corporate Environmental Management Program that is under the overall management of the Environmental Risk Management (ERM) group in Risk Management. Environmental evaluations are integrated into our credit and investment risk assessment processes, with environmental risk management standards and procedures in place for all sectors. In addition, environmental and social risk assessments in project finance, project-related corporate loans and related bridge loans are required in accordance with our commitment to the Equator Principles, a voluntary set of guidelines for financial institutions based on the screening criteria of the International Finance Corporation, which we adopted in 2003. We also conduct ongoing research and benchmarking on environmental issues such as climate change as they may pertain to responsible lending practices. We are also a participant in the Carbon Disclosure Project's climate change program, which promotes corporate disclosure to the investment community on greenhouse gas emissions and climate change management.

The ERM group works closely with our main business units and functional groups to ensure that high standards of environmental responsibility are applied to the banking services that we provide to our clients, the relationships we have with our stakeholders, and to the way we manage our facilities. An executive-level Environmental Management Committee is in place to provide input on environmental strategy and oversight of CIBC's environmental initiatives.

Accounting and control matters

Critical accounting policies and estimates

A summary of significant accounting policies is presented in Note 1 to the consolidated financial statements. Certain accounting policies require us to make judgments and estimates, some of which may relate to matters that are uncertain. Changes in the judgments and estimates required in the critical accounting policies discussed below could have a material impact on our financial results. We have established control procedures to ensure accounting policies are applied consistently and processes for changing methodologies are well controlled.

Valuation of financial instruments

Debt and equity trading securities, trading business and government loans, obligations related to securities sold short, derivative contracts, AFS securities and FVO financial instruments are carried at fair value. FVO financial instruments include certain debt securities, certain secured borrowings, structured deposits and business and government deposits. Retail mortgage interest rate commitments are also designated as FVO financial instruments.

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability at the measurement date in an orderly arm's-length transaction between market participants in the principal market under current market conditions (i.e., the exit price). Fair value measurements are categorized into levels within a fair value hierarchy based on the nature of the valuation inputs (Level 1, 2 or 3). We have an established and documented process for determining fair value. Fair value is based on unadjusted quoted prices in an active market for the same instrument, where available (Level 1). If active market prices or quotes are not available for an instrument, fair value is then based on valuation models in which the significant inputs are observable (Level 2) or in which one or more of the significant inputs are non-observable (Level 3). Estimating fair value requires the application of judgment. The type and level of judgment required is largely dependent on the amount of observable market information available. For instruments valued using internally developed models that use significant non-observable market inputs and are therefore classified within Level 3 of the hierarchy, the judgment used to estimate fair value is more significant than when estimating the fair value of instruments classified within Levels 1 and 2. To ensure that valuations are appropriate, a number of policies and controls are in place. Independent validation of fair value is performed at least on a monthly basis. Valuation inputs are verified to external sources such as exchange quotes, broker quotes or other management-approved independent pricing sources.

The following table presents amounts, in each category of financial instruments, which are valued using valuation techniques based on Level 3 inputs, for the structured credit run-off business and total consolidated CIBC. For further details of the valuation of and sensitivity associated with Level 3 financial assets and liabilities, see Note 2 to the consolidated financial statements.

$ millions, as at October 31	2017			2016		
	Structured credit run-off business	**Total CIBC**	**Total CIBC (1)**	Structured credit run-off business	Total CIBC	Total CIBC (1)
Assets						
Trading securities and loans	**$ 3**	**$ 138**	**0.2 %**	$ 496	$ 536	0.9 %
AFS securities	**–**	**1,967**	**4.9**	3	2,296	6.2
FVO securities	**94**	**94**	**63.5**	94	94	36.9
Derivative instruments	**130**	**196**	**0.8**	140	195	0.7
	$ 227	**$ 2,395**	**1.8 %**	$ 733	$ 3,121	2.6 %
Liabilities						
Deposits and other liabilities (2)	**$ 6**	**$ 369**	**5.5 %**	$ 257	$ 506	13.9 %
Derivative instruments	**148**	**245**	**1.1**	197	274	1.0
	$ 154	**$ 614**	**1.4 %**	$ 454	$ 780	1.8 %

(1) Represents the percentage of Level 3 assets and liabilities over total assets and liabilities for each reported category that are carried on the consolidated balance sheet at fair value.
(2) Includes FVO deposits and bifurcated embedded derivatives.

Note 2 to the consolidated financial statements presents the valuation methods used to determine fair value showing separately those financial instruments that are carried at fair value on the consolidated balance sheet and those that are not.

In order to reflect the observed market practice of pricing collateralized and uncollateralized derivatives, our valuation approach uses overnight indexed swap curves as the discount rate in the valuation of collateralized derivatives and market cost of funding in the valuation of uncollateralized derivatives. The use of a market cost of funds curve reduces the fair value of uncollateralized derivative assets incremental to the reduction in fair value for credit risk already reflected through the CVA. In contrast, the use of a market cost of funds curve reduces the fair value of uncollateralized derivative liabilities in a manner that generally includes adjustments for our own credit. As market practices continue to evolve in regard to derivative valuation, further adjustments may be required in the future.

Fair value adjustments

We apply judgment in establishing valuation adjustments that take into account various factors that may have an impact on the valuation of financial instruments that are carried at fair value on the consolidated balance sheet. Such factors include, but are not limited to, the bid-offer spread, illiquidity due to lack of market depth and other market risks, parameter uncertainty, model risk, credit risk, and future administration costs.

The establishment of fair value adjustments and the determination of the amount of write-downs involve estimates that are based on accounting processes and judgments by management. We evaluate the adequacy of the fair value adjustments and the amount of write-downs on an ongoing basis. The levels of fair value adjustments and the amount of the write-downs could change as events warrant and may not reflect ultimate realizable amounts.

The following table summarizes our valuation adjustments:

$ millions, as at October 31	2017	2016
Securities		
Market risk	**$ 2**	$ 2
Derivatives		
Market risk	**111**	85
Credit risk	**66**	112
Administration costs	**5**	5
Total valuation adjustments	**$ 184**	$ 204

Impairment of AFS securities

AFS securities include debt and equity securities.

AFS securities are measured at fair value, with the difference between the fair value and the amortized cost included in AOCI. Only equities that do not have a reliably measurable fair value are carried at cost. We have determined that all of our equity securities have reliable fair values.

AFS securities are subject to quarterly reviews to assess whether or not there is an impairment. The assessment of impairment depends on whether the instrument is debt or equity in nature. AFS debt securities are identified as impaired when there is objective observable evidence concerning the inability to collect the contractual principal or interest. Factors that are reviewed for impairment assessment include, but are not limited to, operating performance and future expectations, liquidity and capital adequacy, external credit ratings, deterioration in underlying asset quality, industry valuation levels for comparable entities, and any changes in market and economic outlook.

For AFS equity instruments, objective evidence of impairment exists if there has been a significant or prolonged decline in the fair value of the investment below its cost. In making the impairment assessment, we also consider whether there have been significant adverse changes in the technological, market, economic, or legal environments in which the issuer operates or if the issuer is experiencing significant financial difficulty.

Realized gains and losses on disposal and write-downs to reflect impairment in the value of AFS securities are recorded in the consolidated statement of income. Previously recognized impairment losses for debt securities (but not equity securities) are reversed if a subsequent increase in fair value can be objectively identified and is related to an event occurring after the impairment loss was recognized. Once an AFS equity security is impaired, all subsequent declines in fair value are charged directly to income.

Allowance for credit losses

We establish and maintain an allowance for credit losses that is considered the best estimate of probable credit-related losses existing in our portfolio of on- and off-balance sheet financial instruments, giving due regard to current conditions.

The allowance for credit losses consists of individual and collective components.

Individual allowances

The majority of our business and government loan portfolios are assessed on an individual loan basis. Individual allowances are established when impaired loans are identified within the individually assessed portfolios. A loan is classified as impaired when we are of the opinion that there is no longer reasonable assurance of the full and timely collection of principal and interest. The individual allowance is the amount required to reduce the carrying value of an impaired loan to its estimated realizable amount. This is determined by discounting the expected future cash flows at the effective interest rate inherent in the loan.

Individual allowances are not established for portfolios that are collectively assessed, including most retail portfolios.

Collective allowances

Consumer and certain small business allowances

Residential mortgages, credit card loans, personal loans, and certain small business loan portfolios consist of large numbers of homogeneous balances of relatively small amounts, for which we take a portfolio approach to establish the collective allowance. As it is not practical to review each individual loan, we utilize a formula basis, by reference to historical ratios of write-offs to current accounts and balances in arrears. For residential mortgages, personal loans and certain small business loans, this historical loss experience enables CIBC to determine appropriate PD and LGD parameters, which are used in the calculation of the portion of the collective allowance for current accounts. The PDs determined by this process that correspond to the risk levels in our retail portfolios are disclosed in "Exposures subject to AIRB approach" in the "Credit risk" section. For credit card loans, non-current residential mortgages, personal loans and certain small business loans, the historical loss experience enables CIBC to calculate flows to write off in our models that determine the collective allowance that pertain to these loans.

We also consider estimates of the time periods over which losses that are present would be identified and a provision taken, our view of current economic and portfolio trends, and evidence of credit quality improvements or deterioration. On a regular basis, the parameters that affect the allowance calculation are updated, based on our experience and the economic environment.

Business and government allowances

For groups of individually assessed loans for which no objective evidence of impairment has been identified on an individual basis, a collective allowance is provided for losses which we estimate are inherent in the portfolio at the reporting date, but not yet specifically identified from an individual assessment of the loan.

The methodology for determining the appropriate level of the collective allowance incorporates a number of factors, including the size of the portfolios, expected loss rates, and relative risk profiles. We also consider estimates of the time periods over which losses that are present would be identified and a provision taken, our view of current economic and portfolio trends, and evidence of credit quality improvements or deterioration. On a regular basis, the parameters that affect the collective allowance calculation are updated, based on our experience and the economic environment. Expected loss rates for business loan portfolios are based on the risk rating of each credit facility and on the PD factors associated with each risk rating, as well as estimates of LGD. The PD factors reflect our historical loss experience and are supplemented by data derived from defaults in the public debt markets. Our risk-rating method and categories are disclosed in "Exposures subject to AIRB approach" in the "Credit risk" section. Historical loss experience is adjusted based on observable data to reflect the effects of current conditions. LGD estimates are based on our experience over past years.

The collective allowance[1] of $1,213 million (2016: $1,201 million), which represents our best estimate of losses inherent but not specifically provided for in our loan portfolios, was selected from within the range based on a qualitative analysis of the economic environment and credit trends, as well as the risk profile of the loan portfolios. A uniform 10% increase in the PDs or loss severity across all portfolios would cause the collective allowance[1] to increase by approximately $121 million.

(1) Relates to collective allowance, except for: (i) residential mortgages greater than 90 days delinquent; and (ii) personal loans and scored small business loans greater than 30 days delinquent.

Securitizations and structured entities

Securitization of our own assets

Under IFRS 10 "Consolidated Financial Statements" (IFRS 10), judgment is exercised in determining whether an investor controls an investee including assessing whether the investor has: (i) power over the investee; (ii) exposure, or rights, to variable returns from its involvement with the investee; and (iii) the ability to affect those returns through its power over the investee.

We sponsor several SEs that have purchased and securitized our own assets including Cards II Trust, Broadway Trust and Crisp Trust, which we consolidate under IFRS 10.

We also securitize our own mortgage assets through a government-sponsored securitization program. We sell these securitized assets to a government-sponsored securitization vehicle that we do not consolidate, as well as to other third parties. IAS 39 "Financial Instruments: Recognition and Measurement" provides guidance on when to derecognize financial assets. A financial asset is derecognized when the contractual rights to receive cash flows from the asset have expired, or when we have transferred the rights to receive cash flows from the asset such that:

- We have transferred substantially all the risks and rewards of the asset; or
- We have neither transferred nor retained substantially all the risks and rewards of the asset, but have transferred control of the asset.

We have determined that our securitization activities related to residential mortgages and cards receivables are accounted for as secured borrowing transactions because we have not met the aforementioned criteria.

In addition, we sell and derecognize commercial mortgages through a pass-through arrangement with a trust that securitizes these mortgages into ownership certificates held by various external investors. We continue to perform special servicing of the mortgages in exchange for a market-based fee and do not consolidate the trust. We also sell certain U.S. commercial mortgages to third parties that qualify for derecognition because we have transferred substantially all the risks and rewards of the mortgages and have no continuous involvement after the transfer.

Securitization of third-party assets

We also sponsor several SEs that purchase pools of third-party assets. We consider a number of factors in determining whether CIBC controls these SEs. We monitor the extent to which we support these SEs, through direct investment in the debt issued by the SEs and through the provision of liquidity protection to the other debtholders, to assess whether we should consolidate these entities.

IFRS 10 also requires that we reconsider our consolidation assessment if facts and circumstances relevant to the entities indicate that there are changes to one or more of the three elements of control described above. Factors that trigger reassessment include, but are not limited to, significant changes in ownership structure of the entities, changes in contractual or governance arrangements, provision of a liquidity facility beyond the original terms, transactions with the entities that were not contemplated originally and changes in the financing structure of the entities.

Specifically, in relation to our multi-seller conduits, we would reconsider our consolidation assessment if our level of interest in the ABCP issued by the conduits changes significantly, or in the rare event that the liquidity facility that we provide to the conduits is drawn or amended.

A significant increase in our holdings of the outstanding commercial paper issued by the conduits would become more likely in a scenario in which the market for bank-sponsored ABCP suffered a significant deterioration such that the conduits were unable to roll their ABCP.

For additional information on the securitizations of our own assets and third-party assets, see the "Off-balance sheet arrangements" section and Note 6 to the consolidated financial statements.

Asset impairment

Goodwill

As at October 31, 2017, we had goodwill of $5,367 million (2016: $1,539 million). Goodwill is not amortized, but is tested, at least annually, for impairment by comparing the recoverable amount of the cash-generating unit (CGU) to which goodwill has been allocated, with the carrying amount of the CGU including goodwill. Any deficiency is recognized as impairment of goodwill. The recoverable amount of a CGU is defined as the higher of its estimated fair value less cost to sell and its value in use. Goodwill is also required to be tested for impairment whenever there are indicators that it may be impaired.

Estimation of the recoverable amount is an area of significant judgment. Recoverable amounts are estimated using internally developed models which require the use of significant assumptions including forecasted earnings, discount rates, growth rates, forecasted regulatory capital requirements, and price-earnings multiples. Reductions in the estimated recoverable amount could arise from various factors, such as reductions in forecasted cash flows, an increase in the assumed level of required capital, and any adverse changes to the discount rate or terminal growth rates either in isolation or in any combination thereof. Where our estimated recoverable amount is not significantly in excess of the carrying amount of the CGU, additional judgment is required, and reductions in the recoverable amount are more likely to give rise to a deficiency which would result in an impairment charge.

The recoverable amount of CIBC FirstCaribbean is based on a value in use calculation that is estimated using a five-year cash flow projection approved by management of CIBC FirstCaribbean and an estimate of the capital required to be maintained in the region to support ongoing operations.

We performed our annual impairment test as of August 1, 2017 based on a five-year forecast prepared by management of CIBC FirstCaribbean during the fourth quarter of 2017. The forecast for CIBC FirstCaribbean used in our 2017 annual impairment test reflects an expectation of continued productive loan growth during the forecast period.

As economic conditions in the Caribbean region remain challenging, we continue to closely monitor our investment. Reductions in the estimated recoverable amount of our CIBC FirstCaribbean CGU could result in additional goodwill impairment charges in future periods. As at October 31, 2017, the carrying amount of goodwill relating to CIBC FirstCaribbean was $405 million (US$314 million).

Other intangible assets and long-lived assets

As at October 31, 2017, we had other intangible assets with an indefinite life of $141 million (2016: $142 million). Acquired intangible assets are separately recognized if the benefits of the intangible assets are obtained through contractual or other legal rights, or if the intangible assets can be sold, transferred, licensed, rented, or exchanged. Determining the useful lives of intangible assets requires judgment and fact-based analysis.

Intangible assets with an indefinite life are not amortized but are assessed for impairment by comparing the recoverable amount to the carrying amount. An impairment test is required at least annually, or whenever there are indicators that these assets may be impaired.

Long-lived assets and other identifiable intangible assets with a definite life are amortized over their estimated useful lives. These assets are tested for impairment whenever events or changes in circumstances indicate that the carrying amount is higher than the recoverable amount. The recoverable amount is defined as the higher of the estimated fair value less cost to sell and value in use.

Determining the recoverable amount of intangible assets and long-lived assets is an area of judgment as we estimate the future cash flows expected to result from the use of the asset and, where appropriate, cash flows arising from the asset's eventual disposition.

For additional details, see Note 8 to the consolidated financial statements.

Income taxes

We are subject to income tax laws in the various jurisdictions where we operate, and the tax laws in those jurisdictions are potentially subject to different interpretations by us and the relevant taxation authority. We use judgment in the estimation of income taxes and deferred tax assets and liabilities. As a result, management judgment is applied in the interpretation of the relevant tax laws and in estimating the provision for current and deferred income taxes. Deferred tax assets or liabilities are determined for each temporary difference based on the tax rates that are expected to be in effect in the period that the assets are realized or the liabilities are settled. Deferred tax liabilities are generally recognized for all taxable temporary differences unless the temporary differences relate to our net investments in foreign operations and will not reverse in the foreseeable future.

We are required to assess whether it is probable that our deferred tax assets will be realized prior to their expiration and, based on all of the available evidence, determine if any portion of our deferred income tax assets should not be recognized. The factors used to assess the probability of realization are our past experience of income and capital gains, forecasts of future net income before income taxes, available tax planning strategies that could be implemented to realize the deferred tax assets, and the remaining expiration period of tax loss carryforwards. In addition, for deductible temporary differences arising from our net investments in foreign operations, we must consider whether the temporary difference will reverse in the foreseeable future. Although realization is not assured, we believe, based on all of the available evidence, it is probable that the recognized deferred tax assets will be realized.

Income tax accounting impacts all of our reporting segments. For further details on our income taxes, see Note 20 to the consolidated financial statements.

Contingent liabilities and provision

Legal proceedings and other contingencies

In the ordinary course of its business, CIBC is a party to a number of legal proceedings, including regulatory investigations, in which claims for substantial monetary damages are asserted against CIBC and its subsidiaries. Legal provisions are established if, in the opinion of management, it is both probable that an outflow of economic benefits will be required to resolve the matter, and a reliable estimate can be made of the amount of the obligation. If the reliable estimate of probable loss involves a range of potential outcomes within which a specific amount within the range appears to be a better estimate, that amount is accrued. If no specific amount within the range of potential outcomes appears to be a better estimate than any other amount, the mid-point in the range is accrued. In some instances, however, it is not possible either to determine whether an obligation is probable or to reliably estimate the amount of loss, in which case no accrual can be made.

While there is inherent difficulty in predicting the outcome of legal proceedings, based on current knowledge and in consultation with legal counsel, we do not expect the outcome of these matters, individually or in aggregate, to have a material adverse effect on our consolidated financial statements. However, the outcome of these matters, individually or in aggregate, may be material to our operating results for a particular reporting period. We regularly assess the adequacy of CIBC's litigation accruals and make the necessary adjustments to incorporate new information as it becomes available.

The provisions disclosed in Note 23 to the consolidated financial statements include all of CIBC's accruals for legal matters as at October 31, 2017, including amounts related to the significant legal proceedings described in that note and to other legal matters.

CIBC considers losses to be reasonably possible when they are neither probable nor remote. It is reasonably possible that CIBC may incur losses in addition to the amounts recorded when the loss accrued is the mid-point of a range of reasonably possible losses, or the potential loss pertains to a matter in which an unfavourable outcome is reasonably possible but not probable.

CIBC believes the estimate of the aggregate range of reasonably possible losses, in excess of the amounts accrued, for its significant legal proceedings, where it is possible to make such an estimate, is from nil to approximately $1.2 billion as at October 31, 2017. This estimated aggregate range of reasonably possible losses is based upon currently available information for those significant proceedings in which CIBC is involved, taking into account CIBC's best estimate of such losses for those cases for which an estimate can be made. CIBC's estimate involves significant judgment, given the varying stages of the proceedings and the existence of multiple defendants in many of such proceedings whose share of the liability has yet to be determined. The range does not include potential punitive damages and interest. The matters underlying the estimated range as at October 31, 2017, consist of the significant legal matters disclosed in Note 23 to the consolidated financial statements. The matters underlying the estimated range will change from time to time, and actual losses may vary significantly from the current estimate. For certain matters, CIBC does not believe that an estimate can currently be made as many of them are in preliminary stages and certain matters have no specific amount claimed. Consequently, these matters are not included in the range.

A description of significant ongoing matters to which CIBC is a party can be found in Note 23 to the consolidated financial statements.

Restructuring

During 2015, we recorded cumulative restructuring charges of $296 million in Corporate and Other. The charges primarily related to employee severance and included Program Clarity, a bank-wide priority focused on simplifying our bank. The charges also included restructuring costs related to CIBC FirstCaribbean, which included charges related to the sale by CIBC FirstCaribbean of its Belize banking operations.

In the fourth quarter of 2016, we recorded additional restructuring charges of $134 million as we continued to implement initiatives in support of Program Clarity.

As at October 31, 2017, the remaining provision relating to these restructuring charges was $149 million. While this amount represents our best estimate as at October 31, 2017 of the amount required to settle the obligation, uncertainty exists with respect to when the obligation will be settled and the amounts that will ultimately be paid, as this will largely depend upon individual facts and circumstances.

For further details on our restructuring provision, see Note 23 to the consolidated financial statements.

Post-employment and other long-term benefit plan assumptions

We sponsor a number of benefit plans to eligible employees, including registered and supplemental pension plans, and post-retirement medical and dental plans (other post-employment benefit plans). We also continue to sponsor a long-term disability income replacement plan and associated medical and dental benefits (collectively, other long-term benefit plans). The long-term disability plan was closed to new claims effective June 1, 2004.

The calculation of net defined benefit plan expense and obligations depends on various actuarial assumptions such as discount rates, health-care cost trend rates, turnover of employees, projected salary increases, retirement age, and mortality rates. The actuarial assumptions used for determining the net

defined benefit expense for a fiscal year are set at the beginning of the annual reporting period, are reviewed in accordance with accepted actuarial practice and are approved by management.

The discount rate assumption used in measuring the net defined benefit plan expense and obligations reflects market yields, as of the measurement date, on high quality debt instruments with a currency and term to maturity that match the currency and expected timing of benefit payments. Our discount rate is estimated by developing a yield curve based on high quality corporate bonds. While there is a deep market of high quality corporate bonds denominated in Canadian dollars with short and medium terms to maturity, there is not a deep market in bonds with terms to maturity that match the timing of all the expected benefit payments for all of our Canadian plans. As a result, for our Canadian pension, other post-employment and other long-term benefit plans, we estimate the yields of high quality corporate bonds with longer term maturities by extrapolating current yields on bonds with short- and medium-term durations along the yield curve. Judgment is required in constructing the yield curve, and as a result, different methodologies applied in constructing the yield curve can give rise to different discount rates.

For further details of our annual pension and other post-employment expense and obligations, see Note 19 and Note 1 to the consolidated financial statements.

Financial instruments

As a financial institution, our assets and liabilities primarily comprise financial instruments, which include deposits, securities, loans, derivatives, acceptances, repurchase agreements, subordinated indebtedness, and preferred shares.

We use these financial instruments for both trading and non-trading activities. Trading activities primarily include the purchase and sale of securities, transacting in foreign exchange and derivative instruments in the course of facilitating client trades and taking proprietary trading positions with the objective of income generation. Non-trading activities generally include the business of lending, investing, funding, and ALM.

The use of financial instruments may either introduce or mitigate exposures to market, credit and/or liquidity risks. See the "Management of risk" section for details on how these risks are managed.

Financial instruments are accounted for according to their classification. For details on the accounting for these instruments, see Note 2 to the consolidated financial statements.

For significant assumptions made in determining the valuation of financial and other instruments, see the "Valuation of financial instruments" section above.

Accounting developments

Transition to IFRS 9

IFRS 9 "Financial Instruments" (IFRS 9) replaces IAS 39 and is effective for annual periods beginning on or after January 1, 2018, which for us would have been on November 1, 2018. Early application is permitted if an entity applies all the requirements of the standard. During 2015, OSFI issued a final advisory that requires D-SIBs to adopt IFRS 9 for their annual period beginning on November 1, 2017, one year earlier than required by the International Accounting Standards Board (IASB). As a D-SIB, we will publish our first interim consolidated financial statements under IFRS 9 for the quarter ended January 31, 2018, except for the "own credit" provisions of IFRS 9, which we voluntarily early adopted as of November 1, 2014. IFRS 9 is required to be applied on a retrospective basis, with certain exceptions. As permitted, we will not restate our prior period comparative consolidated financial statements when we adopt the requirements of the new standard. We will recognize an adjustment to our opening November 1, 2017 retained earnings and AOCI, to reflect the application of the new requirements at the adoption date. The application of IFRS 9 is expected to reduce our shareholders' equity by approximately $100 million on an after-tax basis as at November 1, 2017. The impact to our regulatory capital is not expected to be material.

The transition to IFRS 9 represents a significant initiative for CIBC, for which we have established a transition program that is supported by a formal governance structure with an enterprise view and a dedicated project team. The project's Steering Committee is co-chaired by senior stakeholders from our Risk Management and Finance groups, and comprises individuals from the impacted SBUs as well as other functional groups, such as Technology and Operations and Internal Audit. The Steering Committee is responsible for:

- Ensuring the strategic alignment of IFRS 9 with CIBC's overall strategies;
- Ensuring key milestones are met;
- Providing direction and guidance on a holistic basis; and
- Reviewing and resolving key issues and risks.

To assist the Steering Committee in meeting its responsibilities, our transition program structure has three work streams that correspond to the three sections of the new financial instruments standard: (1) Classification and measurement of financial instruments; (2) Impairment; and (3) Hedge accounting. Each work stream comprises stakeholders from the impacted SBUs and functional groups, who are subject matter experts in the relevant policies, processes or technologies that are expected to be impacted by the transition.

Classification and measurement

The IFRS 9 classification and measurement model requires that all debt instrument financial assets that do not meet a "solely payment of principal and interest" (SPPI) test, including those that contain embedded derivatives, be classified at initial recognition as fair value through profit or loss (FVTPL). The intent of the SPPI test is to ensure that debt instruments that contain non-basic lending features, such as conversion options and equity linked pay-outs, are measured at FVTPL. Subsequent measurement of instruments classified as FVTPL under IFRS 9 operates in a similar manner to trading under IAS 39.

For debt instrument financial assets that meet the SPPI test, classification at initial recognition will be determined based on the business model under which these instruments are managed. Debt instruments that are managed on a "held for trading" or "fair value" basis will be classified as FVTPL. Debt instruments that are managed on a "hold to collect and for sale" basis will be classified as fair value through other comprehensive income (FV-OCI) for debt. Debt instruments that are managed on a "hold to collect" basis will be classified as amortized cost. Subsequent measurement of instruments classified at FV-OCI and amortized cost classifications under IFRS 9 operate in a similar manner to AFS for debt securities and loans and receivables, respectively, under existing IAS 39, except for the impairment provisions which are discussed below.

For those debt instrument financial assets that would otherwise be classified as FV-OCI or amortized cost, an irrevocable designation can be made at initial recognition to instead measure the debt instrument at FVTPL under the FVO if doing so eliminates or significantly reduces an accounting mismatch and if certain OSFI requirements are met.

All equity instrument financial assets are required to be classified at initial recognition as FVTPL unless an irrevocable designation is made to classify the instrument as FV-OCI for equities. Unlike AFS for equity securities under IAS 39, the FV-OCI for equities category results in all realized and unrealized gains and losses being recognized in OCI with no recycling to profit and loss. Only dividends will continue to be recognized in profit and loss.

The classification and measurement of financial liabilities remain essentially unchanged from the current IAS 39 requirements, except that changes in fair value of FVO liabilities attributable to changes in own credit risk are to be presented in OCI, rather than profit and loss, which we early adopted as of November 1, 2014.

Derivatives will continue to be measured at FVTPL under IFRS 9.

See Note 32 to the consolidated financial statements for further details of the classification and measurement changes resulting from the adoption of IFRS 9.

Impairment

The new impairment guidance sets out an expected credit loss (ECL) model applicable to all debt instrument financial assets classified as amortized cost or FV-OCI. In addition, the ECL model applies to loan commitments and financial guarantees that are not measured at FVTPL.

Incurred Loss versus Expected Loss Methodology

The application of ECL will significantly change our credit loss methodology and models. ECL allowances represent credit losses that reflect an unbiased and probability-weighted amount which is determined by evaluating a range of possible outcomes, the time value of money and reasonable and supportable information about past events, current conditions and forecasts of future economic conditions. This compares to the present incurred loss model under IAS 39 that incorporates a single best estimate, the time value of money and information about past events and current conditions. The objective of the new impairment standard is to record lifetime losses on all financial instruments which have experienced a significant increase in credit risk (SICR) since their initial recognition. As a result, ECL allowances will be measured at amounts equal to either (i) 12-month ECL or (ii) lifetime ECL for those financial instruments which have experienced a SICR since initial recognition. This compares to the present incurred loss model which recognizes lifetime credit losses when there is objective evidence of impairment and also allowances for incurred but not identified credit losses. Because of the inclusion of relative credit deterioration criteria and consideration of forward looking information, the ECL model eliminates the threshold or trigger event required under the incurred loss model, and lifetime ECL are recognized earlier under IFRS 9.

Stage Migration and Significant Increase in Credit Risk

For non-impaired financial instruments:

- Stage 1 is comprised of all non-impaired financial instruments which have not experienced a SICR since initial recognition. Entities are required to recognize 12 months of ECL for stage 1 financial instruments. In assessing whether credit risk has increased significantly, entities are required to compare the risk of a default occurring on the financial instrument as at the reporting date, with the risk of a default occurring on the financial instrument as at the date of initial recognition.
- Stage 2 is comprised of all non-impaired financial instruments which have experienced a SICR since initial recognition. Entities are required to recognize lifetime ECL for stage 2 financial instruments. In subsequent reporting periods, if the credit risk of the financial instrument improves such that there is no longer a SICR since initial recognition, then entities shall revert to recognizing 12 months of ECL. In contrast to stage 1 and stage 2, inherent within the incurred loss methodology under IAS 39, allowances are provided for non-impaired financial instruments for credit losses that are incurred but not yet identified.

For impaired financial instruments:

- Financial instruments are classified as stage 3 when there is objective evidence of impairment as a result of one or more loss events that have occurred after initial recognition with a negative impact on the estimated future cash flows of a loan or a portfolio of loans. The ECL model requires that lifetime ECL be recognized for impaired financial instruments, which is similar to the current requirements under IAS 39 for impaired financial instruments.

For our business and government portfolios, the individually assessed allowances for impaired instruments recognized under IAS 39 will generally be replaced by stage 3 allowances under IFRS 9, while the collective allowances for non-impaired financial instruments will generally be replaced by either stage 1 or stage 2 allowances under IFRS 9. For our retail portfolios, the portion of our collective allowances that relate to impaired financial instruments under IAS 39 will generally be replaced by stage 3 allowances, while the non-impaired portion of our collective allowances will generally be replaced by either stage 1 or stage 2 allowances under IFRS 9.

Key Drivers of Expected Credit Loss

The following concepts are subject to a high level of judgment, will have a significant impact on the level of ECL allowances and will be the cause of increased volatility of allowances:

- Determining when a SICR of a financial asset has occurred,
- Measuring both 12-month and lifetime credit losses, and
- Incorporating forward-looking information through the use of multiple probability-weighted scenarios.

For the majority of our retail portfolios, we will determine SICR based on relative changes in the financial instrument's lifetime PD since its initial recognition. For the majority of our business and government portfolios and FV-OCI debt securities, we will determine SICR based on relative changes in internal risk ratings since initial recognition. In respect to the lifetime of a financial instrument, the maximum period to consider when measuring ECL shall be the maximum contractual period over which an entity is exposed to credit risk. For revolving facilities, such as credit cards, an entity shall measure ECL over the period that the entity is exposed to credit risk and the ECL would not be mitigated by credit risk management actions, even if that period extends beyond the maximum contractual period. The lifetime of a credit card account is the expected behavioural life.

The measurement of both 12-month and lifetime credit losses involves forecasting forward-looking macroeconomic factors for multiple scenarios and determining the probability weighting for the scenarios so that we can appropriately probability weight the expected losses we will recognize on our consolidated balance sheet. While this process will leverage existing forecasting processes and will be overseen by a governance committee consisting of key internal stakeholders from Economics, Risk Management, and Finance, it involves a significant amount of judgment. The incorporation of the forward-looking information into PDs, LGDs, and EADs for multiple scenarios for the purpose of calculating the ECLs under the different scenarios also involves significant judgment. In many cases, this process leverages our existing regulatory framework.

Use of the Regulatory Framework

Our ECL model leverages the data, systems and processes that are used to calculate Basel expected losses regulatory adjustments for the portion of our portfolios under the AIRB approach. Appropriate adjustments will be made to the Basel parameters to meet IFRS 9 requirements, including the conversion of through-the-cycle and downturn parameters used in the Basel regulatory calculations to point-in-time parameters used under IFRS 9 that considers forward-looking information. In addition, credit losses under IFRS 9 are for 12 months for stage 1 financial instruments and lifetime for stage 2 and stage 3 financial instruments, as compared with 12 months for AIRB portfolios under Basel. The main adjustments necessary to Basel risk parameters are explained in the table below:

	Regulatory Capital	IFRS 9
PD	Through-the-cycle PD represents long-run average PD throughout a full economic cycle	Point-in-time 12-month or lifetime PD based on current conditions and relevant forward-looking assumptions
LGD	Downturn LGD based on losses that would be expected in an economic downturn and subject to certain regulatory floors Discounted using the cost of capital	Unbiased probability-weighted LGD based on estimated LGD including impact of relevant forward-looking assumptions such as changes in collateral value Discounted using the original effective interest rate
EAD	Based on the drawn balance plus expected utilization of any undrawn portion prior to default, and cannot be lower than the drawn balance	Amortization and repayment of principal and interest from the balance sheet date to the default is captured
Other		ECL is discounted from the default date to the reporting date

Key Activities

Throughout 2017, we have been testing the application of the ECL methodology for our impacted portfolios through the application of an internal parallel run. This included testing the processes to forecast and probability weight the forward-looking factors used to calculate our ECLs and assessing the appropriateness of our SICR triggers. During the year, we also focused on updating all relevant internal controls and policies and we continued to educate key stakeholders. Throughout the transition program, our Audit Committee received regular program updates, including the results of our parallel ECL allowances.

Upon the adoption of IFRS 9, we plan to change from our current policy of attributing changes to our collective allowance for non-impaired financial instruments from Corporate and Other to a new IFRS 9 policy to attribute any changes in ECL, including stage 1 and stage 2 ECL changes, to our SBUs.

Regulatory Developments

Our implementation of IFRS 9 takes into account guidance issued by OSFI covering sound credit risk practices associated with the implementation and application of an expected credit loss accounting framework. We also continue to monitor regulatory developments related to the new ECL impairment requirements.

In March 2017, the BCBS issued *Standards, Regulatory treatment of accounting provisions – interim approach and transitional arrangements* , which addresses the transitional arrangement requirements and interim approach for the regulatory treatment of accounting provisions. The BCBS has outlined a number of high-level requirements that local regulatory authorities must comply with should the regulatory authority choose to adopt a transitional arrangement. The BCBS has decided to retain the current treatment of provisions under both the standardized and IRB approaches for credit risk for an interim period. Regulatory authorities in individual jurisdictions will be able to extend their existing approaches to categorize provisions as general or specific to provisions calculated under the applicable ECL accounting model. Beyond the interim period, the BCBS recommends that regulatory authorities in individual jurisdictions provide guidance, as appropriate, on how they intend to categorize ECL provisions as general or specific to ensure consistency within their jurisdiction.

In August 2017, OSFI issued for public consultation revisions to the Capital Adequacy Requirements Guideline for implementation in the first quarter of 2018, including guidance related to the treatment of IFRS 9 allowances in the regulatory capital framework. The proposed guideline retains the current regulatory treatment of accounting provisions, consistent with the BCBS guideline, and provides guidance on the classification of stage 1, 2 and 3 allowances under IFRS 9 in the regulatory framework.

Hedge Accounting

The IFRS 9 hedge accounting guidance is intended to better align the accounting with risk management activities. However, IFRS 9 allows the existing hedge accounting requirements under IAS 39 to continue in place of the hedge accounting requirements under IFRS 9, pending the completion of the IASB's project on macro hedge accounting. As permitted, we have elected to not adopt the IFRS 9 hedge accounting requirements and instead will retain the IAS 39 hedge accounting requirements. However, we will adopt the new hedge accounting disclosure requirements under amendments to IFRS 7 for our annual period ending October 31, 2018.

Other accounting policy changes

For details on other future accounting policy changes, see Note 32 to the consolidated financial statements.

Regulatory developments

Automatic Exchange of Information – Organisation for Economic Co-operation and Development (OECD)

Under the initiative of the OECD, many countries, including Canada, have committed to automatic exchange of information relating to accounts held by tax residents of signatory countries, using a Common Reporting Standard (CRS). CIBC will meet all obligations imposed in respect of CRS, in accordance with local law, in all applicable jurisdictions in which it operates.

Review of sales practices

During the year, the Financial Consumer Agency of Canada and OSFI announced that they are conducting an industry-wide review of the retail banking sales practices of Canadian financial institutions, which is ongoing. CIBC will continue to monitor developments in this area.

For a discussion of other regulatory developments, see the "Taxes", "Capital resources", and "Management of risk" sections.

Related-party transactions

We have various processes in place to ensure that the relevant related-party information is identified and reported to the CGC of the Board on a quarterly basis, as required by the *Bank Act* (Canada). The CGC has the responsibility for reviewing our policies and practices in identifying transactions with our related parties that may materially affect us, and reviewing the associated procedures for promoting compliance with the *Bank Act* (Canada).

In the ordinary course of business, we provide banking services and enter into transactions with related parties on terms similar to those offered to unrelated parties. Related parties include key management personnel[(1)], their close family members, and entities that they or their close family members control or jointly control. Related parties also include associates and joint ventures accounted for under the equity method, and post-employment benefit plans for CIBC employees. Loans to these related parties are made in the ordinary course of business and on substantially the same terms as for comparable transactions with unrelated parties. We offer a subsidy on annual fees and preferential interest rates on credit card balances to senior officers which is the same offer extended to all employees of CIBC. In addition, CIBC offers deferred share and other plans to non-employee directors, executives, and certain other key employees. Details of our compensation of key management personnel[(1)] and our investments in equity-accounted associates and joint ventures are disclosed in Notes 25, 18, 19 and 26 to the consolidated financial statements.

(1) Key management personnel are defined as those persons having authority and responsibility for planning, directing and controlling the activities of CIBC directly or indirectly and comprise the members of the Board (referred to as directors); and ExCo and certain named officers per the *Bank Act* (Canada) (collectively referred to as senior officers). Board members who are also ExCo members are included as senior officers.

Policy on the Scope of Services of the Shareholders' Auditors

The "Policy on the Scope of Services of the Shareholders' Auditors" sets out the parameters for the engagement of the shareholders' auditors by CIBC that are consistent with applicable law, including the U.S. Sarbanes-Oxley Act of 2002 and SEC rules. The policy requires the Audit Committee's pre-approval of all work performed by the shareholders' auditors and prohibits CIBC from engaging the shareholders' auditors for "prohibited" services. The Audit Committee is also accountable for the oversight of the work of the shareholders' auditors and for an annual assessment of the engagement team's qualifications, independence and performance. The Audit Committee is also responsible for conducting a periodic comprehensive review of the external auditor at least every five years. The Audit Committee's oversight activities over the shareholders' auditors are disclosed in our Management Proxy Circular.

Controls and procedures

Disclosure controls and procedures

CIBC's management, with the participation of the President and Chief Executive Officer and the Chief Financial Officer, has evaluated the effectiveness of CIBC's disclosure controls and procedures as at October 31, 2017 (as defined in the rules of the SEC and the Canadian Securities Administrators). Based on that evaluation, the President and Chief Executive Officer and the Chief Financial Officer have concluded that such disclosure controls and procedures were effective.

Management's annual report on internal control over financial reporting

CIBC's management is responsible for establishing and maintaining adequate internal control over financial reporting for CIBC.

Internal control over financial reporting is a process designed by, or under the supervision of, the President and Chief Executive Officer and the Chief Financial Officer and effected by the Board, management and other personnel to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with IFRS as issued by the IASB. CIBC's internal control over financial reporting includes those policies and procedures that: (i) pertain to the maintenance of records, that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of CIBC; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with IFRS as issued by the IASB, and that receipts and expenditures of CIBC are being made only in accordance with authorizations of CIBC's management and directors; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of CIBC's assets that could have a material effect on the financial statements.

All internal control systems, no matter how well designed, have inherent limitations. Therefore, even those systems determined to be effective can provide only reasonable assurance with respect to financial statement preparation and presentation.

CIBC's management has used the Internal Control – Integrated Framework that was published in 2013 by the COSO as the basis to evaluate the effectiveness of CIBC's internal control over financial reporting.

As at October 31, 2017, management assessed the effectiveness of CIBC's internal control over financial reporting and concluded that such internal control was effective and that there were no material weaknesses in CIBC's internal control over financial reporting that have been identified by management.

Ernst & Young LLP, the external auditors, have audited the consolidated financial statements of CIBC for the year ended October 31, 2017, and have also issued a report on internal control over financial reporting under standards of the Public Company Accounting Oversight Board (United States). This report is located on page 97 of this Annual Report.

Changes in internal control over financial reporting

There have been no changes in CIBC's internal control over financial reporting during the year ended October 31, 2017 that have materially affected, or are reasonably likely to materially affect, its internal control over financial reporting.

Supplementary annual financial information

Average balance sheet, net interest income and margin

		Average balance			Interest			Average rate		
$ millions, for the year ended October 31		**2017**	2016	2015	**2017**	2016	2015	**2017**	2016	2015
Domestic assets [1]										
Cash and deposits with banks		**$ 3,294**	$ 2,186	$ 2,369	**$ 31**	$ 19	$ 16	**0.94 %**	0.87 %	0.68 %
Securities	Trading	**44,620**	42,563	43,061	**1,205**	1,273	1,248	**2.70**	2.99	2.90
	AFS and HTM	**13,246**	13,510	6,231	**182**	167	98	**1.37**	1.24	1.57
	FVO	**57**	60	58	**3**	3	4	**5.26**	5.00	6.90
Securities borrowed or purchased under resale agreements		**27,406**	20,231	26,361	**276**	209	241	**1.01**	1.03	0.91
Loans	Residential mortgages	**194,350**	174,105	159,689	**4,698**	4,188	4,159	**2.42**	2.41	2.60
	Personal and credit card	**49,901**	47,537	46,234	**3,378**	3,260	3,224	**6.77**	6.86	6.97
	Business and government	**48,060**	40,812	36,343	**1,429**	1,346	1,244	**2.97**	3.30	3.42
Total loans		**292,311**	262,454	242,266	**9,505**	8,794	8,627	**3.25**	3.35	3.56
Other interest-bearing assets		**1,024**	1,067	578	**5**	8	10	**0.49**	0.75	1.73
Derivative instruments		**11,687**	14,326	14,504	**–**	–	–	**–**	–	–
Customers' liability under acceptances		**9,435**	12,720	10,256	**–**	–	–	**–**	–	–
Other non-interest-bearing assets		**14,185**	14,753	13,776	**–**	–	–	**–**	–	–
Total domestic assets		**417,265**	383,870	359,460	**11,207**	10,473	10,244	**2.69**	2.73	2.85
Foreign assets [1][2]										
Cash and deposits with banks		**18,451**	30,745	23,473	**149**	137	60	**0.81**	0.45	0.26
Securities	Trading	**10,518**	5,993	4,006	**161**	112	39	**1.53**	1.87	0.97
	AFS and HTM	**23,653**	20,883	12,809	**333**	216	129	**1.41**	1.03	1.01
	FVO	**94**	206	208	**6**	3	6	**6.38**	1.46	2.88
Securities borrowed or purchased under resale agreements		**19,228**	19,386	11,407	**219**	120	69	**1.14**	0.62	0.60
Loans	Residential mortgages	**2,711**	2,426	2,324	**140**	131	132	**5.16**	5.40	5.68
	Personal and credit card	**916**	761	739	**83**	74	70	**9.06**	9.72	9.47
	Business and government	**32,719**	26,911	23,464	**1,295**	826	733	**3.96**	3.07	3.12
Total loans		**36,346**	30,098	26,527	**1,518**	1,031	935	**4.18**	3.43	3.52
Other interest-bearing assets		**137**	114	92	**–**	–	1	**–**	–	1.09
Derivative instruments		**12,646**	14,669	13,812	**–**	–	–	**–**	–	–
Other non-interest-bearing assets		**4,027**	3,176	3,530	**–**	–	–	**–**	–	–
Total foreign assets		**125,100**	125,270	95,864	**2,386**	1,619	1,239	**1.91**	1.29	1.29
Total assets		**$ 542,365**	$ 509,140	$ 455,324	**$ 13,593**	$ 12,092	$ 11,483	**2.51 %**	2.37 %	2.52 %
Domestic liabilities [1]										
Deposits	Personal	**$ 143,640**	$ 134,225	$ 125,982	**$ 851**	$ 858	$ 1,032	**0.59 %**	0.64 %	0.82 %
	Business and government	**129,851**	120,602	106,439	**1,008**	1,560	1,080	**0.78**	1.29	1.01
	Bank	**2,256**	2,246	1,548	**13**	9	7	**0.58**	0.40	0.45
	Secured borrowings	**38,642**	38,720	38,758	**613**	547	581	**1.59**	1.41	1.50
Total deposits		**314,389**	295,793	272,727	**2,485**	2,974	2,700	**0.79**	1.01	0.99
Derivative instruments		**11,960**	15,297	15,461	**–**	–	–	**–**	–	–
Acceptances		**9,436**	12,719	10,256	**–**	–	–	**–**	–	–
Obligations related to securities sold short		**13,400**	10,875	10,724	**224**	197	221	**1.67**	1.81	2.06
Obligations related to securities lent or sold under repurchase agreements		**9,178**	8,575	9,743	**130**	96	90	**1.42**	1.12	0.92
Other liabilities		**11,782**	10,494	9,459	**(3)**	3	10	**(0.03)**	0.03	0.11
Subordinated indebtedness		**3,088**	2,912	4,138	**138**	133	179	**4.47**	4.57	4.33
Total domestic liabilities		**373,233**	356,665	332,508	**2,974**	3,403	3,200	**0.80**	0.95	0.96
Foreign liabilities [1][2]										
Deposits	Personal	**10,182**	7,953	7,163	**66**	51	68	**0.65**	0.64	0.95
	Business and government	**83,461**	81,554	63,798	**1,274**	121	190	**1.53**	0.15	0.30
	Bank	**16,105**	13,771	10,519	**128**	69	31	**0.79**	0.50	0.29
	Secured borrowings	**–**	–	115	**–**	–	1	**–**	–	0.87
Total deposits		**109,748**	103,278	81,595	**1,468**	241	290	**1.34**	0.23	0.36
Derivative instruments		**12,942**	15,662	14,723	**–**	–	–	**–**	–	–
Obligations related to securities sold short		**389**	351	721	**2**	2	9	**0.51**	0.57	1.25
Obligations related to securities lent or sold under repurchase agreements		**17,125**	8,554	3,469	**124**	31	20	**0.72**	0.36	0.58
Other liabilities		**1,810**	1,916	1,911	**44**	45	47	**2.43**	2.35	2.46
Subordinated indebtedness		**194**	235	262	**4**	4	2	**2.06**	1.70	0.76
Total foreign liabilities		**142,208**	129,996	102,681	**1,642**	323	368	**1.15**	0.25	0.36
Total liabilities		**515,441**	486,661	435,189	**4,616**	3,726	3,568	**0.90**	0.77	0.82
Shareholders' equity		**26,726**	22,275	19,951	**–**	–	–	**–**	–	–
Non-controlling interests		**198**	204	184	**–**	–	–	**–**	–	–
Total liabilities and equity		**$ 542,365**	$ 509,140	$ 455,324	**$ 4,616**	$ 3,726	$ 3,568	**0.85 %**	0.73 %	0.78 %
Net interest income and margin					**$ 8,977**	$ 8,366	$ 7,915	**1.66 %**	1.64 %	1.74 %
Additional disclosures: Non-interest-bearing deposit liabilities										
Domestic		**$ 45,691**	$ 40,843	$ 37,202						
Foreign [2]		**9,159**	5,605	4,844						

(1) Classification as domestic or foreign is based on domicile of debtor or customer.
(2) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Volume/rate analysis of changes in net interest income

$ millions		2017/2016			2016/2015		
		Increase (decrease) due to change in:			Increase (decrease) due to change in:		
		Average balance	**Average rate**	**Total**	Average balance	Average rate	Total
Domestic assets [1]							
Cash and deposits with banks		**$ 10**	**$ 2**	**$ 12**	$ (1)	$ 4	$ 3
Securities	Trading	**62**	**(130)**	**(68)**	(14)	39	25
	AFS and HTM	**(3)**	**18**	**15**	114	(45)	69
	FVO	**–**	**–**	**–**	–	(1)	(1)
Securities borrowed or purchased under resale agreements		**74**	**(7)**	**67**	(56)	24	(32)
Loans	Residential mortgages	**487**	**23**	**510**	375	(346)	29
	Personal and credit card	**162**	**(44)**	**118**	91	(55)	36
	Business and government	**239**	**(156)**	**83**	153	(51)	102
Total loans		**888**	**(177)**	**711**	619	(452)	167
Other interest-bearing assets		**–**	**(3)**	**(3)**	8	(10)	(2)
Change in domestic interest income		**1,031**	**(297)**	**734**	670	(441)	229
Foreign assets [1][2]							
Cash and deposits with banks		**(55)**	**67**	**12**	19	58	77
Securities	Trading	**85**	**(36)**	**49**	19	54	73
	AFS and HTM	**29**	**88**	**117**	81	6	87
	FVO	**(2)**	**5**	**3**	–	(3)	(3)
Securities borrowed or purchased under resale agreements		**(1)**	**100**	**99**	48	3	51
Loans	Residential mortgages	**15**	**(6)**	**9**	6	(7)	(1)
	Personal and credit card	**15**	**(6)**	**9**	2	2	4
	Business and government	**178**	**291**	**469**	108	(15)	93
Total loans		**208**	**279**	**487**	116	(20)	96
Other interest-bearing assets		**–**	**–**	**–**	–	(1)	(1)
Change in foreign interest income		**264**	**503**	**767**	283	97	380
Total change in interest income		**$ 1,295**	**$ 206**	**$ 1,501**	$ 953	$ (344)	$ 609
Domestic liabilities [1]							
Deposits	Personal	**$ 60**	**$ (67)**	**$ (7)**	$ 68	$ (242)	$ (174)
	Business and government	**120**	**(672)**	**(552)**	144	336	480
	Bank	**–**	**4**	**4**	3	(1)	2
	Secured borrowings	**(1)**	**67**	**66**	(1)	(33)	(34)
Total deposits		**179**	**(668)**	**(489)**	214	60	274
Obligations related to securities sold short		**46**	**(19)**	**27**	3	(27)	(24)
Obligations related to securities lent or sold under repurchase agreements		**7**	**27**	**34**	(11)	17	6
Other liabilities		**–**	**(6)**	**(6)**	1	(8)	(7)
Subordinated indebtedness		**8**	**(3)**	**5**	(53)	7	(46)
Change in domestic interest expense		**240**	**(669)**	**(429)**	154	49	203
Foreign liabilities [1][2]							
Deposits	Personal	**14**	**1**	**15**	7	(24)	(17)
	Business and government	**3**	**1,150**	**1,153**	53	(122)	(69)
	Bank	**12**	**47**	**59**	10	28	38
	Secured borrowings	**–**	**–**	**–**	(1)	–	(1)
Total deposits		**29**	**1,198**	**1,227**	69	(118)	(49)
Obligations related to securities sold short		**–**	**–**	**–**	(5)	(2)	(7)
Obligations related to securities lent or sold under repurchase agreements		**31**	**62**	**93**	29	(18)	11
Other liabilities		**(2)**	**1**	**(1)**	–	(2)	(2)
Subordinated indebtedness		**(1)**	**1**	**–**	–	2	2
Change in foreign interest expense		**57**	**1,262**	**1,319**	93	(138)	(45)
Total change in interest expense		**$ 297**	**$ 593**	**$ 890**	$ 247	$ (89)	$ 158
Change in total net interest income		**$ 998**	**$ (387)**	**$ 611**	$ 706	$ (255)	$ 451

(1) Classification as domestic or foreign is based on domicile of debtor or customer.
(2) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Analysis of net loans and acceptances

	Canada [1]					U.S. [1][2]				
$ millions, as at October 31	**2017**	2016	2015	2014	2013	**2017**	2016	2015	2014	2013
Residential mortgages	**$ 203,787**	$ 184,610	$ 166,616	$ 155,198	$ 148,664	**$ 902**	$ –	$ –	$ 1	$ 1
Student	**50**	73	110	151	210	**–**	–	–	–	–
Personal	**39,483**	36,896	35,412	34,342	33,257	**326**	56	51	94	93
Credit card	**11,805**	11,755	11,279	11,078	14,097	**35**	36	37	40	32
Total net consumer loans	**255,125**	233,334	213,417	200,769	196,228	**1,263**	92	88	135	126
Non-residential mortgages	**6,481**	6,734	7,120	6,947	6,979	**95**	103	333	240	236
Financial institutions	**5,403**	4,831	4,137	2,640	2,356	**3,248**	2,100	667	659	403
Retail and wholesale	**4,496**	4,044	3,667	3,515	3,086	**1,812**	290	310	257	158
Business services	**6,237**	5,312	5,011	4,728	4,191	**3,567**	1,215	814	418	284
Manufacturing – capital goods	**1,912**	1,663	1,505	1,308	1,081	**1,559**	128	181	221	189
Manufacturing – consumer goods	**3,019**	2,663	2,626	2,329	1,914	**702**	28	22	14	36
Real estate and construction	**13,293**	11,684	8,644	7,201	5,794	**13,761**	8,554	7,206	6,394	5,611
Agriculture	**5,558**	5,364	4,828	4,263	3,933	**107**	44	50	6	1
Oil and gas	**4,762**	4,532	4,138	3,633	2,969	**2,198**	1,951	1,469	1,276	988
Mining	**668**	722	761	602	383	**87**	242	305	266	223
Forest products	**464**	465	566	470	434	**209**	4	11	41	35
Hardware and software	**539**	267	280	339	468	**883**	165	167	118	98
Telecommunications and cable	**281**	444	510	514	413	**756**	30	44	26	26
Publishing, printing, and broadcasting	**291**	333	244	208	290	**117**	–	–	5	–
Transportation	**1,818**	1,630	1,449	1,033	870	**602**	288	183	221	247
Utilities	**1,927**	1,663	1,621	1,282	1,170	**1,445**	1,237	845	804	816
Education, health and social services	**2,937**	2,826	2,128	2,017	1,956	**3,099**	–	–	–	–
Governments	**869**	728	541	578	613	**7**	–	–	–	–
Others	**–**	–	–	–	–	**12**	17	69	165	210
Collective allowance allocated to business and government loans	**(195)**	(215)	(218)	(192)	(192)	**(83)**	(58)	(50)	(43)	(28)
Total net business and government loans, including acceptances	**60,760**	55,690	49,558	43,415	38,708	**34,183**	16,338	12,626	11,088	9,533
Total net loans and acceptances	**$ 315,885**	$ 289,024	$ 262,975	$ 244,184	$ 234,936	**$ 35,446**	$ 16,430	$ 12,714	$ 11,223	$ 9,659

(1) Classification by country is based on domicile of debtor or customer.
(2) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Analysis of net loans and acceptances (continued)

	Other [1]					Total				
$ millions, as at October 31	**2017**	2016	2015	2014	2013	**2017**	2016	2015	2014	2013
Residential mortgages	**$ 2,379**	$ 2,467	$ 2,406	$ 2,118	$ 2,113	**$ 207,068**	$ 187,077	$ 169,022	$ 157,317	$ 150,778
Student	**–**	–	–	1	1	**50**	73	110	152	211
Personal	**583**	519	476	410	429	**40,392**	37,471	35,939	34,846	33,779
Credit card	**152**	155	150	125	126	**11,992**	11,946	11,466	11,243	14,255
Total net consumer loans	**3,114**	3,141	3,032	2,654	2,669	**259,502**	236,567	216,537	203,558	199,023
Non-residential mortgages	**218**	232	245	228	239	**6,794**	7,069	7,698	7,415	7,454
Financial institutions	**841**	1,723	3,291	2,155	1,065	**9,492**	8,654	8,095	5,454	3,824
Retail and wholesale	**435**	561	548	499	333	**6,743**	4,895	4,525	4,271	3,577
Business services	**1,736**	1,266	1,370	1,098	772	**11,540**	7,793	7,195	6,244	5,247
Manufacturing – capital goods	**432**	234	293	248	202	**3,903**	2,025	1,979	1,777	1,472
Manufacturing – consumer goods	**111**	114	119	88	249	**3,832**	2,805	2,767	2,431	2,199
Real estate and construction	**1,325**	1,391	1,124	890	777	**28,379**	21,629	16,974	14,485	12,182
Agriculture	**22**	24	40	37	40	**5,687**	5,432	4,918	4,306	3,974
Oil and gas	**555**	268	324	321	71	**7,515**	6,751	5,931	5,230	4,028
Mining	**784**	928	446	384	537	**1,539**	1,892	1,512	1,252	1,143
Forest products	**–**	–	–	38	30	**673**	469	577	549	499
Hardware and software	**20**	–	12	14	22	**1,442**	432	459	471	588
Telecommunications and cable	**301**	359	388	162	234	**1,338**	833	942	702	673
Publishing, printing, and broadcasting	**89**	87	79	89	4	**497**	420	323	302	294
Transportation	**1,847**	1,326	899	803	893	**4,267**	3,244	2,531	2,057	2,010
Utilities	**779**	532	785	631	318	**4,151**	3,432	3,251	2,717	2,304
Education, health and social services	**29**	32	32	26	24	**6,065**	2,858	2,160	2,043	1,980
Governments	**1,662**	1,874	1,611	1,079	943	**2,538**	2,602	2,152	1,657	1,556
Others	**–**	300	711	1,431	2,403	**12**	317	780	1,596	2,613
Collective allowance allocated to business and government loans	**(73)**	(65)	(57)	(42)	(40)	**(351)**	(338)	(325)	(277)	(260)
Total net business and government loans, including acceptances	**11,113**	11,186	12,260	10,179	9,116	**106,056**	83,214	74,444	64,682	57,357
Total net loans and acceptances	**$ 14,227**	$ 14,327	$ 15,292	$ 12,833	$ 11,785	**$ 365,558**	$ 319,781	$ 290,981	$ 268,240	$ 256,380

(1) Classification by country is based on domicile of debtor or customer.

Summary of allowance for credit losses

$ millions, as at or for the year ended October 31	**2017** [1]	2016	2015	2014	2013
Balance at beginning of year	**$ 1,813**	$ 1,762	$ 1,736	$ 1,758	$ 1,916
Provision for credit losses	**829**	1,051	771	937	1,121
Write-offs					
Domestic [2]					
Residential mortgages	**21**	13	14	19	15
Student	**–**	–	1	3	3
Personal and credit card	**869**	842	781	857	1,030
Other business and government	**51**	116	42	63	137
Foreign [2]					
Residential mortgages	**17**	21	18	8	9
Personal and credit card	**19**	18	16	16	9
Other business and government	**80**	143	132	92	245
Total write-offs	**1,057**	1,153	1,004	1,058	1,448
Recoveries					
Domestic [2]					
Personal and credit card	**168**	163	171	177	172
Other business and government	**15**	8	8	11	6
Foreign [2]					
Personal and credit card	**5**	6	5	2	3
Other business and government	**5**	6	2	2	3
Total recoveries	**193**	183	186	192	184
Net write-offs	**864**	970	818	866	1,264
Interest income on impaired loans	**(26)**	(29)	(23)	(30)	(37)
Foreign exchange and other	**(15)**	(1)	96	(63)	22
Balance at end of year	**$ 1,737**	$ 1,813	$ 1,762	$ 1,736	$ 1,758
Comprises:					
Loans	**$ 1,618**	$ 1,691	$ 1,670	$ 1,660	$ 1,698
Undrawn credit facilities	**119**	122	92	76	60
Ratio of net write-offs during the year to average loans outstanding during the year	**0.26 %**	0.33 %	0.30 %	0.35 %	0.52 %

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
(2) Classification as domestic or foreign is based on domicile of debtor or customer.

Allowance for credit losses on impaired loans as a percentage of gross impaired loans

	Allowance for credit losses [1]					Allowance as a % of gross impaired loans				
$ millions, as at October 31	**2017**	2016	2015	2014	2013	**2017**	2016	2015	2014	2013
Domestic [2]										
Residential mortgages	**$ 22**	$ 20	$ 21	$ 22	$ 24	**7.5 %**	8.0 %	9.3 %	10.2 %	11.4 %
Personal loans	**110**	105	99	96	105	**94.8**	85.4	91.7	80.0	77.8
Business and government	**43**	63	77	38	61	**41.7**	30.9	42.8	60.3	63.5
Total domestic	**175**	188	197	156	190	**34.2**	32.5	38.4	39.1	43.1
Foreign [2][3]										
Residential mortgages	**123**	148	167	146	65	**55.7**	56.3	48.0	45.9	23.8
Personal loans	**31**	40	46	43	30	**56.4**	57.1	58.2	53.8	34.9
Business and government	**148**	196	236	299	262	**28.3**	26.2	49.3	46.9	35.1
Total foreign	**302**	384	449	488	357	**37.8**	35.6	49.6	47.1	32.3
Total allowance	**$ 477**	$ 572	$ 646	$ 644	$ 547	**36.4 %**	34.5 %	45.5 %	44.9 %	35.4 %

(1) Comprises individual allowance, and collective allowance related to personal, scored small business, and mortgage impaired loans that are greater than 90 days delinquent.
(2) Classification as domestic or foreign is based on domicile of debtor or customer.
(3) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Allowance on non-impaired loans as a percentage of net loans and acceptances

	Allowance for credit losses [1]					Allowance as a % of net loans and acceptances				
$ millions, as at October 31	**2017**	2016	2015	2014	2013	**2017**	2016	2015	2014	2013
Domestic [2]										
Residential mortgages	**$ 34**	$ 30	$ 26	$ 21	$ 63	**– %**	– %	– %	– %	– %
Personal loans	**345**	345	316	315	313	**0.9**	0.9	0.9	0.9	0.9
Credit cards	**383**	383	334	384	512	**3.2**	3.3	3.0	3.5	3.6
Business and government	**187**	205	208	183	179	**0.3**	0.4	0.4	0.4	0.5
Total domestic	**949**	963	884	903	1,067	**0.3**	0.3	0.3	0.4	0.5
Foreign [2][3]										
Residential mortgages	**24**	23	22	20	8	**0.7**	0.9	0.9	0.9	0.4
Personal loans	**9**	7	7	6	3	**1.0**	1.2	1.3	1.2	0.6
Credit cards	**3**	3	4	2	5	**1.6**	1.6	2.1	1.2	3.2
Business and government	**156**	123	107	85	68	**0.3**	0.4	0.4	0.4	0.4
Total foreign	**192**	156	140	113	84	**0.4**	0.5	0.5	0.5	0.4
Total allowance	**$ 1,141**	$ 1,119	$ 1,024	$ 1,016	$ 1,151	**0.3 %**	0.3 %	0.4 %	0.4 %	0.4 %

(1) Excludes allowance on undrawn credit facilities.
(2) Classification as domestic or foreign is based on domicile of debtor or customer.
(3) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Net loans and acceptances by geographic location [1]

$ millions, as at October 31	**2017**	2016	2015	2014	2013
Canada					
Atlantic provinces	**$ 14,194**	$ 14,006	$ 13,598	$ 13,307	$ 13,124
Quebec	**27,027**	25,471	23,093	21,802	21,257
Ontario	**157,987**	139,254	125,584	114,940	109,390
Prairie provinces	**13,746**	13,341	12,877	12,136	11,829
Alberta, Northwest Territories and Nunavut	**44,354**	43,308	41,197	38,859	37,953
British Columbia and Yukon	**59,479**	54,567	47,478	44,012	42,421
Collective allowance allocated to Canada [2]	**(902)**	(923)	(852)	(872)	(1,038)
Total Canada	**315,885**	289,024	262,975	244,184	234,936
U.S. [3]	**35,446**	16,430	12,714	11,223	9,659
Other countries	**14,227**	14,327	15,292	12,833	11,785
Total net loans and acceptances	**$ 365,558**	$ 319,781	$ 290,981	$ 268,240	$ 256,380

(1) Classification by country is based on domicile of debtor or customer.
(2) Relates to collective allowance, except for: (i) residential mortgages greater than 90 days delinquent; and (ii) personal loans and scored small business loans greater than 30 days delinquent.
(3) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Net impaired loans

	Canada [1]					U.S. [1][2]				
$ millions, as at October 31	**2017**	2016	2015	2014	2013	**2017**	2016	2015	2014	2013
Gross impaired loans										
Residential mortgages	**$ 292**	$ 251	$ 225	$ 216	$ 210	**$ 9**	$ –	$ –	$ –	$ –
Student	**2**	3	5	7	9	**–**	–	–	–	–
Personal	**114**	120	103	113	126	**2**	–	–	1	4
Total gross impaired consumer loans	**408**	374	333	336	345	**11**	–	–	1	4
Non-residential mortgages	**7**	4	4	4	1	**–**	–	–	–	–
Financial institutions	**–**	1	–	1	–	**8**	–	–	–	–
Retail, wholesale and business services	**38**	23	26	31	54	**52**	5	–	–	34
Manufacturing – consumer and capital goods	**6**	19	8	4	6	**1**	–	–	–	–
Real estate and construction	**33**	23	9	10	9	**137**	62	94	135	159
Agriculture	**9**	4	1	2	4	**–**	–	–	–	–
Resource-based industries	**2**	121	126	4	13	**114**	248	1	–	–
Telecommunications, media and technology	**3**	4	2	4	6	**2**	–	–	–	–
Transportation	**2**	1	1	1	1	**–**	–	–	–	38
Utilities	**–**	–	–	–	–	**–**	–	10	20	–
Other	**3**	4	3	2	2	**45**	–	–	–	–
Total gross impaired – business and government loans	**103**	204	180	63	96	**359**	315	105	155	231
Total gross impaired loans	**511**	578	513	399	441	**370**	315	105	156	235
Other past due loans [3]	**337**	362	337	342	378	**–**	–	–	–	–
Total gross impaired and other past due loans	**$ 848**	$ 940	$ 850	$ 741	$ 819	**$ 370**	$ 315	$ 105	$ 156	$ 235
Allowance for credit losses [4]										
Residential mortgages	**$ 22**	$ 20	$ 21	$ 22	$ 24	**$ –**	$ –	$ –	$ –	$ –
Student	**–**	–	–	–	–	**–**	–	–	–	–
Personal	**110**	105	99	96	105	**–**	–	–	1	1
Total allowance – consumer loans	**132**	125	120	118	129	**–**	–	–	1	1
Non-residential mortgages	**2**	2	1	1	–	**–**	–	–	–	–
Financial institutions	**–**	–	–	–	–	**–**	–	–	–	–
Retail, wholesale and business services	**18**	16	19	20	31	**16**	4	–	–	20
Manufacturing – consumer and capital goods	**5**	7	6	3	6	**–**	–	–	–	–
Real estate and construction	**9**	10	7	7	6	**41**	20	27	47	36
Agriculture	**–**	1	–	–	1	**–**	–	–	–	–
Resource-based industries	**2**	21	39	2	9	**8**	8	–	–	–
Telecommunications, media and technology	**2**	3	2	3	5	**–**	–	–	–	–
Transportation	**2**	1	1	1	1	**–**	–	–	–	2
Utilities	**–**	–	–	–	–	**–**	–	6	13	–
Other	**3**	2	2	1	2	**–**	–	–	–	–
Total allowance – business and government loans	**43**	63	77	38	61	**65**	32	33	60	58
Total allowance	**$ 175**	$ 188	$ 197	$ 156	$ 190	**$ 65**	$ 32	$ 33	$ 61	$ 59
Net impaired loans										
Residential mortgages	**$ 270**	$ 231	$ 204	$ 194	$ 186	**$ 9**	$ –	$ –	$ –	$ –
Student	**2**	3	5	7	9	**–**	–	–	–	–
Personal	**4**	15	4	17	21	**2**	–	–	–	3
Total net impaired consumer loans	**276**	249	213	218	216	**11**	–	–	–	3
Non-residential mortgages	**5**	2	3	3	1	**–**	–	–	–	–
Financial institutions	**–**	1	–	1	–	**8**	–	–	–	–
Retail, wholesale and business services	**20**	7	7	11	23	**36**	1	–	–	14
Manufacturing – consumer and capital goods	**1**	12	2	1	–	**1**	–	–	–	–
Real estate and construction	**24**	13	2	3	3	**96**	42	67	88	123
Agriculture	**9**	3	1	2	3	**–**	–	–	–	–
Resource-based industries	**–**	100	87	2	4	**106**	240	1	–	–
Telecommunications, media and technology	**1**	1	–	1	1	**2**	–	–	–	–
Transportation	**–**	–	–	–	–	**–**	–	–	–	36
Utilities	**–**	–	–	–	–	**–**	–	4	7	–
Other	**–**	2	1	1	–	**45**	–	–	–	–
Total net impaired – business and government loans	**60**	141	103	25	35	**294**	283	72	95	173
Total net impaired loans	**$ 336**	$ 390	$ 316	$ 243	$ 251	**$ 305**	$ 283	$ 72	$ 95	$ 176

(1) Classification by country is based on domicile of debtor or customer.
(2) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.
(3) Represents loans where repayment of principal or payment of interest is contractually in arrears between 90 and 180 days.
(4) Comprises individual allowance, and collective allowance related to personal, scored small business, and mortgage impaired loans that are greater than 90 days delinquent.

Net impaired loans (continued)

	Other [1]					Total				
$ millions, as at October 31	**2017**	2016	2015	2014	2013	**2017**	2016	2015	2014	2013
Gross impaired loans										
Residential mortgages	**$ 212**	$ 263	$ 348	$ 318	$ 273	**$ 513**	$ 514	$ 573	$ 534	$ 483
Student	**–**	–	–	–	–	**2**	3	5	7	9
Personal	**53**	70	79	79	82	**169**	190	182	193	212
Total gross impaired consumer loans	**265**	333	427	397	355	**684**	707	760	734	704
Non-residential mortgages	**17**	17	34	60	85	**24**	21	38	64	86
Financial institutions	**2**	3	5	5	–	**10**	4	5	6	–
Retail, wholesale and business services	**57**	94	141	168	174	**147**	122	167	199	262
Manufacturing – consumer and capital goods	**5**	210	47	44	52	**12**	229	55	48	58
Real estate and construction	**78**	104	139	184	179	**248**	189	242	329	347
Agriculture	**1**	1	3	6	11	**10**	5	4	8	15
Resource-based industries	**–**	–	2	1	1	**116**	369	129	5	14
Telecommunications, media and technology	**–**	–	–	5	5	**5**	4	2	9	11
Transportation	**4**	2	2	8	7	**6**	3	3	9	46
Utilities	**–**	–	1	1	1	**–**	–	11	21	1
Other	**–**	1	–	–	1	**48**	5	3	2	3
Total gross impaired – business and government loans	**164**	432	374	482	516	**626**	951	659	700	843
Total gross impaired loans	**429**	765	801	879	871	**1,310**	1,658	1,419	1,434	1,547
Other past due loans [2]	**3**	3	3	8	7	**340**	365	340	350	385
Total gross impaired and other past due loans	**$ 432**	$ 768	$ 804	$ 887	$ 878	**$ 1,650**	$ 2,023	$ 1,759	$ 1,784	$ 1,932
Allowance for credit losses [3]										
Residential mortgages	**$ 123**	$ 148	$ 167	$ 146	$ 65	**$ 145**	$ 168	$ 188	$ 168	$ 89
Student	**–**	–	–	–	–	**–**	–	–	–	–
Personal	**31**	40	46	42	29	**141**	145	145	139	135
Total allowance – consumer loans	**154**	188	213	188	94	**286**	313	333	307	224
Non-residential mortgages	**9**	12	17	31	32	**11**	14	18	32	32
Financial institutions	**–**	2	3	3	–	**–**	2	3	3	–
Retail, wholesale and business services	**29**	48	65	67	60	**63**	68	84	87	111
Manufacturing – consumer and capital goods	**3**	45	43	42	41	**8**	52	49	45	47
Real estate and construction	**39**	54	68	91	62	**89**	84	102	145	104
Agriculture	**1**	1	3	4	5	**1**	2	3	4	6
Resource-based industries	**–**	–	1	–	–	**10**	29	40	2	9
Telecommunications, media and technology	**–**	–	–	–	1	**2**	3	2	3	6
Transportation	**2**	2	2	–	2	**4**	3	3	1	5
Utilities	**–**	–	1	1	1	**–**	–	7	14	1
Other	**–**	–	–	–	–	**3**	2	2	1	2
Total allowance – business and government loans	**83**	164	203	239	204	**191**	259	313	337	323
Total allowance	**$ 237**	$ 352	$ 416	$ 427	$ 298	**$ 477**	$ 572	$ 646	$ 644	$ 547
Net impaired loans										
Residential mortgages	**$ 89**	$ 115	$ 181	$ 172	$ 208	**$ 368**	$ 346	$ 385	$ 366	$ 394
Student	**–**	–	–	–	–	**2**	3	5	7	9
Personal	**22**	30	33	37	53	**28**	45	37	54	77
Total net impaired consumer loans	**111**	145	214	209	261	**398**	394	427	427	480
Non-residential mortgages	**8**	5	17	29	53	**13**	7	20	32	54
Financial institutions	**2**	1	2	2	–	**10**	2	2	3	–
Retail, wholesale and business services	**28**	46	76	101	114	**84**	54	83	112	151
Manufacturing – consumer and capital goods	**2**	165	4	2	11	**4**	177	6	3	11
Real estate and construction	**39**	50	71	93	117	**159**	105	140	184	243
Agriculture	**–**	–	–	2	6	**9**	3	1	4	9
Resource-based industries	**–**	–	1	1	1	**106**	340	89	3	5
Telecommunications, media and technology	**–**	–	–	5	4	**3**	1	–	6	5
Transportation	**2**	–	–	8	5	**2**	–	–	8	41
Utilities	**–**	–	–	–	–	**–**	–	4	7	–
Other	**–**	1	–	–	1	**45**	3	1	1	1
Total net impaired – business and government loans	**81**	268	171	243	312	**435**	692	346	363	520
Total net impaired loans	**$ 192**	$ 413	$ 385	$ 452	$ 573	**$ 833**	$ 1,086	$ 773	$ 790	$ 1,000

(1) Classification by country is based on domicile of debtor or customer.
(2) Represents loans where repayment of principal or payment of interest is contractually in arrears between 90 and 180 days.
(3) Comprises individual allowance, and collective allowance related to personal, scored small business, and mortgage impaired loans that are greater than 90 days delinquent.

Deposits

$ millions, for the year ended October 31	Average balance 2017	Average balance 2016	Average balance 2015	Interest 2017	Interest 2016	Interest 2015	Rate 2017	Rate 2016	Rate 2015
Deposits in domestic bank offices [1]									
Payable on demand									
Personal	**$ 10,567**	$ 9,965	$ 9,252	**$ 13**	$ 12	$ 14	**0.12 %**	0.12 %	0.15 %
Business and government	**41,607**	37,572	33,735	**228**	138	121	**0.55**	0.37	0.36
Bank	**4,419**	2,943	2,083	**1**	–	2	**0.02**	–	0.10
Payable after notice									
Personal	**95,035**	87,057	80,328	**429**	363	454	**0.45**	0.42	0.57
Business and government	**34,510**	28,873	25,128	**332**	240	243	**0.96**	0.83	0.97
Bank	**359**	174	97	**4**	2	1	**1.11**	1.15	1.03
Payable on a fixed date									
Personal	**41,688**	40,414	38,996	**434**	505	589	**1.04**	1.25	1.51
Business and government	**72,260**	58,618	50,604	**1,040**	845	749	**1.44**	1.44	1.48
Bank	**1,681**	1,816	937	**12**	10	5	**0.71**	0.55	0.53
Secured borrowings	**38,642**	38,720	38,758	**613**	547	581	**1.59**	1.41	1.50
Total domestic	**340,768**	306,152	279,918	**3,106**	2,662	2,759	**0.91**	0.87	0.99
Deposits in foreign bank offices [2]									
Payable on demand									
Personal	**1,120**	818	701	**1**	1	3	**0.09**	0.12	0.43
Business and government	**7,697**	4,261	3,801	**8**	3	4	**0.10**	0.07	0.11
Bank	**5**	3	6	**–**	–	–	**–**	–	–
Payable after notice									
Personal	**3,487**	2,551	2,369	**22**	20	33	**0.63**	0.78	1.39
Business and government	**2,857**	801	766	**18**	1	1	**0.63**	0.12	0.13
Payable on a fixed date									
Personal	**1,925**	1,373	1,499	**18**	8	7	**0.94**	0.58	0.47
Business and government	**54,381**	72,031	56,203	**656**	454	152	**1.21**	0.63	0.27
Bank	**11,897**	11,081	8,944	**124**	66	30	**1.04**	0.60	0.34
Secured borrowings	**–**	–	115	**–**	–	1	**–**	–	0.87
Total foreign	**83,369**	92,919	74,404	**847**	553	231	**1.02**	0.60	0.31
Total deposits	**$ 424,137**	$ 399,071	$ 354,322	**$ 3,953**	$ 3,215	$ 2,990	**0.93 %**	0.81 %	0.84 %

(1) Deposits by foreign depositors in our domestic bank offices amounted to $26.8 billion (2016: $10.6 billion; 2015: $7.4 billion).
(2) Includes the results of CIBC Bank USA following the completion of the acquisition on June 23, 2017. See "Significant events" for additional details.

Short-term borrowings

$ millions, as at or for the year ended October 31	2017	2016	2015
Amounts outstanding at end of year			
Obligations related to securities sold short	**$ 13,713**	$ 10,338	$ 9,806
Obligations related to securities lent or sold under repurchase agreements	**29,995**	14,212	10,343
Total short-term borrowings	**$ 43,708**	$ 24,550	$ 20,149
Obligations related to securities sold short			
Average balance	**$ 13,789**	$ 11,226	$ 11,445
Maximum month-end balance	**15,211**	13,029	13,248
Average interest rate	**1.64 %**	1.77 %	2.01 %
Obligations related to securities lent or sold under repurchase agreements			
Average balance	**$ 26,303**	$ 17,129	$ 13,212
Maximum month-end balance	**33,261**	24,513	14,766
Average interest rate	**0.97 %**	0.74 %	0.83 %

Fees paid to the shareholders' auditors

$ millions, for the year ended October 31	2017	2016	2015
Audit fees [1]	**$ 21.1**	$ 16.4	$ 15.9
Audit-related fees [2]	**2.6**	2.2	3.2
Tax fees [3]	**1.1**	0.3	0.4
All other fees [4]	**0.1**	–	0.3
Total	**$ 24.9**	$ 18.9	$ 19.8

(1) For the audit of CIBC's annual financial statements and services normally provided by the principal auditor in connection with CIBC's statutory and regulatory filings. Audit fees also include the audit of internal controls over financial reporting under standards of the Public Company Accounting Oversight Board (United States).
(2) For the assurance and related services that are reasonably related to the performance of the audit or review of CIBC's financial statements, including various agreed upon procedures and translation of financial reports.
(3) For tax compliance services.
(4) Includes fees for non-audit services.

Exhibit B.3(d): Other Pages of CIBC's 2017 Annual Report incorporated in Annual Information Form

- **"Glossary" pages 178-183**
- **"Transfer Agent and Registrar" page 184**
- **"Directors and Board Committees" page 186**

Glossary

Allowance for credit losses
An allowance set up in the financial statements sufficient to absorb expected credit losses in CIBC's portfolio of loans, acceptances, debt securities, letters of credit and guarantees.

Amortized cost
The amount at which a financial asset or financial liability is measured at initial recognition minus repayments, plus or minus any unamortized origination date premiums or discounts, plus or minus any basis adjustments resulting from a fair value hedge, and minus any reduction (directly or through the use of an allowance account) for impairment or uncollectability. The amount of a financial asset or liability measured at initial recognition is the cost of the financial asset or liability including capitalized transaction costs and deferred fees.

Assets under administration (AUA)
Assets administered by CIBC that are beneficially owned by clients and are, therefore, not reported on the consolidated balance sheet. Services provided by CIBC are of an administrative nature, such as safekeeping of securities, collection of investment income, and the settlement of purchase and sale transactions. In addition, AUM amounts are included in the amounts reported under AUA.

Assets under management (AUM)
Assets managed by CIBC that are beneficially owned by clients and are, therefore, not reported on the consolidated balance sheet. The service provided in respect of these assets is discretionary portfolio management on behalf of the clients.

Average interest-earning assets
Average interest-earning assets include interest-bearing deposits with banks, securities, cash collateral on securities borrowed or securities purchased under resale agreements, and loans net of allowances.

Basis point
One-hundredth of a percentage point (0.01%).

Collateral
Assets pledged to secure loans or other obligations, which are forfeited if the obligations are not repaid.

Collateralized debt obligation (CDO)
Securitization of any combination of corporate debt, asset-backed securities (ABS), mortgage-backed securities or tranches of other CDOs to form a pool of diverse assets that are tranched into securities that offer varying degrees of risk and return to meet investor demand.

Collateralized loan obligation
Securitizations of diversified portfolios of corporate debt obligations and/or ABS that are tranched into securities that offer varying degrees of risk and return to meet investor demand.

Credit derivatives
A category of financial instruments that allow one party (the beneficiary) to separate and transfer the credit risk of nonpayment or partial payment to another party (the guarantor).

Credit valuation adjustment (CVA)
A valuation adjustment that is required to be considered in measuring fair value of over-the-counter (OTC) derivatives to recognize the risk that any given derivative counterparty may not ultimately be able to fulfill its obligations. In assessing the net counterparty credit risk exposure, we take into account credit mitigants such as collateral, master netting arrangements, and settlements through clearing houses.

Current replacement cost
The estimated cost of replacing an asset at the present time according to its current worth.

Derivatives
A financial contract that derives its value from the performance of an underlying object, such as an asset, index or interest rate.

Dividend payout ratio
Common dividends paid as a percentage of net income after preferred share dividends and premium on preferred share redemptions.

Dividend yield
Dividends per common share divided by the closing common share price.

Effective interest rate method
A method of calculating the amortized cost of a financial asset or financial liability and of allocating the interest income or interest expense over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash payments or receipts through the expected life of the financial instrument or, when appropriate, a shorter period, to the net carrying amount of the financial asset or financial liability.

Efficiency ratio
Non-interest expenses as a percentage of total revenue (net interest income and non-interest income). Efficiency ratio is used as a measure of productivity.

Exchange-traded derivative contracts
Standardized derivative contracts (e.g., futures contracts and options) that are transacted on an organized exchange and cleared through a central clearing house, and are generally subject to standard margin requirements.

Fair value
The price that would be received to sell an asset, or paid to transfer a liability, between market participants in an orderly transaction in the principal market at the measurement date under current market conditions.

Forward contracts
A non-standardized contract to buy or sell a specified asset at a specified price and specified date in the future.

Forward rate agreement
An OTC forward contract that determines an interest rate to be paid or received commencing on a specified date in the future for a specified period.

Full-time equivalent employees
A measure that normalizes the number of full-time and part-time employees, base plus commissioned employees, and 100% commissioned employees into equivalent full-time units based on actual hours of paid work during a given period.

Futures
A standardized contract to buy or sell a specified commodity, currency or financial instrument of standardized quantity and quality at a specific price and date in the future. Futures contracts are traded on an exchange.

Guarantees and standby letters of credit
Primarily represent CIBC's obligation, subject to certain conditions, to make payments to third parties on behalf of clients, if these clients cannot make those payments, or are unable to meet other specified contractual obligations.

Hedge
A transaction intended to offset potential losses/gains that may be incurred in a transaction or portfolio.

Loan loss ratio
The ratio is calculated as the provision for credit losses on impaired loans to average loans and acceptances, net of allowance for credit losses. The provision for credit losses on impaired loans includes provision for: individual allowance, collective allowance on impaired personal loans, scored small business loans and mortgages, and net card write-offs.

Mark-to-market
The fair value (as defined above) at which an asset can be sold or a liability can be transferred.

Net interest income
The difference between interest earned on assets (such as loans and securities) and interest incurred on liabilities (such as deposits and subordinated indebtedness).

Net interest margin
Net interest income as a percentage of average assets.

Normal course issuer bid
Involves a listed company buying its own shares for cancellation through a stock exchange or other published market, from time to time, and is subject to the various rules of the exchanges and securities commissions.

Notional amount
Principal amount or face amount of a financial contract used for the calculation of payments made on that contract.

Off-balance sheet financial instruments
A financial contract that is based mainly on a notional amount and represents a contingent asset or liability of an institution. Such instruments include credit-related arrangements.

Office of the Superintendent of Financial Institutions (OSFI)
OSFI supervises and regulates all banks, all federally incorporated or registered trust and loan companies, insurance companies, cooperative credit associations, fraternal benefit societies, and federal pension plans in Canada.

Operating leverage
Operating leverage is the difference between the year-over-year percent change in revenue (on a taxable equivalent basis) and year-over-year percent change in non-interest expenses.

Options
A financial contract under which the writer (seller) confers the right, but not the obligation, to the purchaser to either buy (call option) or sell (put option) a specified amount of an underlying asset or instrument at a specified price either at or by a specified date.

Provision for credit losses
An amount charged or credited to income so as to bring the allowance for credit losses to a level that is sufficient to cover expected credit losses in CIBC's portfolio of loans, acceptances, debt securities, letters of credit and guarantees.

Return on average assets or average interest-earning assets
Net income expressed as a percentage of average assets or average interest-earning assets.

Return on common shareholders' equity
Net income attributable to equity shareholders expressed as a percentage of average common shareholders' equity.

Securities borrowed
Securities are typically borrowed to cover short positions. Borrowing requires the pledging of collateral by the borrower to the lender. The collateral may be cash or a highly rated security.

Securities lent
Securities are typically lent to a borrower to cover their short positions. Borrowing requires the pledging of collateral by the borrower to the lender. The collateral provided may be cash or a highly rated security.

Securities purchased under resale agreements
A transaction where a security is purchased by the buyer and, at the same time, the buyer commits to resell the security to the original seller at a specific price and date in the future.

Securities sold short
A transaction in which the seller sells securities that it does not own. Initially the seller typically borrows the securities in order to deliver them to the purchaser. At a later date, the seller buys identical securities in the market to replace the borrowed securities.

Securities sold under repurchase agreements
A transaction where a security is sold by the seller and, at the same time, the seller commits to repurchase the security from the original purchaser at a specific price and date in the future.

Structured entities (SE)
Entities that have been designed so that voting or similar rights are not the dominant factor in deciding who controls the entity, such as when any voting rights relate to administrative tasks only and the relevant activities are directed by means of contractual arrangements.

Swap contracts
A financial contract in which counterparties exchange a series of cash flows based on a specified notional amount over a specified period.

Taxable equivalent basis (TEB)
The gross up tax-exempt revenue on certain securities to a TEB basis. There is an equivalent offsetting adjustment to the income tax expense.

Total shareholder return
The total return earned on an investment in CIBC's common shares. The return measures the change in shareholder value, assuming dividends are reinvested in additional shares.

Risk and capital glossary

Advanced internal ratings-based (AIRB) approach for credit risk
Internal models based on historical experience of key risk assumptions such as probability of default (PD), loss given default (LGD) and exposure at default (EAD) are used to compute the capital requirements subject to OSFI approval. A transitional capital floor based on Basel I standards is also calculated by banks under the AIRB approach for credit risk and an adjustment to risk-weighted assets (RWAs) may be required as prescribed by OSFI.

Advanced measurement approach (AMA) for operational risk
A risk-sensitive approach to calculating the capital charge for operational risk based on internal risk measurement models, using a combination of quantitative and qualitative risk measurement techniques.

Asset/liability management (ALM)
The practice of managing risks that arise from mismatches between the assets and liabilities, mainly in the non-trading areas of the bank. Techniques are used to manage the relative duration of CIBC's assets (such as loans) and liabilities (such as deposits), in order to minimize the adverse impact of changes in interest rates.

Bank exposures
All direct credit risk exposures to deposit-taking institutions and regulated securities firms, and exposures guaranteed by those entities.

Business and government portfolio
A category of exposures that includes lending to businesses and governments, where the primary basis of adjudication relies on the determination and assignment of an appropriate risk rating, that reflects the credit risk of the exposure.

Central counterparties
Central counterparties, also known as clearing houses, place themselves between the buyer and seller of an original trade through the process of novation and become the counterparty for the novated transaction.

Common Equity Tier 1 (CET1), Tier 1 and Total capital ratios
CET1, Tier 1 and total regulatory capital, divided by RWAs, as defined by OSFI's Capital Adequacy Requirements Guideline, which is based on Basel Committee on Banking Supervision (BCBS) standards. During the period beginning in the third quarter of 2014 to the fourth quarter of 2018, on an all-in basis, before any capital floor requirement, there are three different levels of RWAs for the calculation of CIBC's CET1, Tier 1 and Total capital ratios. This occurs because of the option CIBC has chosen for the phase-in of the CVA capital charge.

Corporate exposures
All direct credit risk exposures to corporations, partnerships and proprietorships, and exposures guaranteed by those entities.

Credit risk
The risk of financial loss due to a borrower or counterparty failing to meet its obligations in accordance with contractual terms.

Drawn exposure
The amount of credit risk exposure resulting from loans already advanced to the customer.

Economic capital
Economic capital provides a framework to evaluate the returns of each SBU, commensurate with risk assumed. Economic capital is a non-GAAP risk measure based upon an estimate of equity capital required by the businesses to absorb unexpected losses consistent with our targeted risk rating over a one-year horizon. Economic capital comprises primarily credit, market, operational and strategic risk capital.

Economic profit
A non-GAAP risk-adjusted performance measure used for measuring economic value added. It is calculated as earnings of each business less a charge for the cost of capital.

Exposure at default (EAD)
An estimate of the amount of exposure to a customer at the event of, and at the time of, default.

Incremental risk charge
A capital charge applied in addition to market risk capital specifically to cover default and migration risk in unsecuritized credit assets of varying liquidity held in the trading book.

Internal Capital Adequacy Assessment Process
A framework and process designed to provide a comprehensive view on capital adequacy, as defined by Pillar II of the Basel Accord, wherein we identify and measure our risks on an ongoing basis in order to ensure that the capital available is sufficient to cover all risks across CIBC.

Internal models approach for market risk
Models, which have been developed by CIBC and approved by OSFI, for the measurement of risk and regulatory capital in the trading portfolio for general market risk, debt specific risk, and equity specific risk.

Internal ratings-based approach for securitization exposures
Capital calculation method for securitizations available to the banks approved to use IRB approach for underlying exposures securitized. IRB for securitization comprises several calculation approaches (Ratings-Based, Supervisory Formula, Internal Assessment Approach).

Leverage exposure
For the purposes of the leverage ratio, exposure is defined under the rules as on-balance sheet assets (unweighted) less Tier 1 capital regulatory adjustments plus derivative exposures, securities financing transaction exposures with a limited form of netting under certain conditions, and other off-balance sheet exposures (such as commitments, direct credit substitutes, forward asset purchases, standby/trade letters of credit, securitization exposures).

Leverage ratio
Defined as Tier 1 capital divided by leverage exposure determined in accordance with guidelines issued by OSFI, which are based on BCBS standards.

Liquidity coverage ratio (LCR)
Derived from the BCBS' Basel III framework and incorporated into OSFI's Liquidity Adequacy Requirements (LAR), the LCR is a liquidity standard that aims to ensure that an institution has an adequate stock of unencumbered High Quality Liquid Assets (HQLA) that consists of cash or assets that can be converted into cash at little or no loss of value in private markets, to meet its liquidity needs for a 30 calendar day liquidity stress scenario.

Liquidity risk
The risk of having insufficient cash or its equivalent in a timely and cost-effective manner to meet financial obligations as they come due.

Loss given default (LGD)
An estimate of the amount of exposure to a customer that will not be recovered following a default by that customer, expressed as a percentage of the exposure at default.

Market risk
The risk of economic financial loss in our trading and non-trading portfolios from adverse changes in underlying market factors, including interest rates, foreign exchange rates, equity market prices, commodity prices, credit spreads and customer behaviour for retail products.

Master netting agreement
An industry standard agreement designed to reduce the credit risk of multiple transactions with a counterparty through the creation of a legal right of offset of exposures in the event of a default by that counterparty and through the provision for net settlement of all contracts through a single payment.

Operational risk
The risk of loss arising from people, inadequate or failed internal processes, and systems or from external events.

Other off-balance sheet exposure
The amount of credit risk exposure resulting from the issuance of guarantees and letters of credit.

Other retail
This exposure class includes all loans other than qualifying revolving retail and real estate secured personal lending, that are extended to individuals and small businesses under the regulatory capital reporting framework.

Over-the-counter derivatives exposure
The amount of credit risk exposure resulting from derivatives that trade directly between two counterparties, rather than through exchanges.

Probability of default (PD)
An estimate of the likelihood of default for any particular customer which occurs when that customer is not able to repay its obligations as they become contractually due.

Qualifying revolving retail
This exposure class includes credit cards, unsecured lines of credit and overdraft protection products extended to individuals. Under the standardized approach, these exposures would be included under “other retail”.

Real estate secured personal lending
This exposure class includes residential mortgages and home equity lines of credit extended to individuals.

Regulatory capital
Basel III regulatory capital, as defined by OSFI’s Capital Adequacy Requirements Guideline, is comprised of Common Equity Tier 1 (CET1), Additional Tier 1 (AT1) and Tier 2 capital. CET1 capital includes common shares, retained earnings, AOCI (excluding AOCI relating to cash flow hedges and changes to FVO liabilities attributable to changes in own credit risk) and qualifying instruments issued by a consolidated banking subsidiary to third parties, less regulatory adjustments for items such as goodwill and other intangible assets, deferred tax assets, net assets related to defined benefit pension plans, and certain investments. AT1 capital primarily includes non-viability contingent capital (NVCC) preferred shares, qualifying instruments issued by a consolidated subsidiary to third parties, and non-qualifying innovative Tier 1 notes which are subject to phase-out rules for capital instruments. Tier 1 capital is comprised of CET1 plus AT1. Tier 2 capital includes NVCC subordinated indebtedness, non-qualifying subordinated indebtedness subject to phase-out rules for capital instruments, eligible collective allowance under the standardized approach, and qualifying instruments issued by a consolidated subsidiary to third parties. Total capital is comprised of Tier 1 capital plus Tier 2 capital. Under Basel III, qualifying regulatory capital instruments must be capable of absorbing loss at the point of non-viability of the financial institution; non-qualifying capital instruments are excluded from regulatory capital at a rate of 10% per annum commencing January 1, 2013 through to January 1, 2022.

Repo-style transactions exposure
The amount of credit risk exposure resulting from our securities bought or sold under resale agreements, as well as securities borrowing and lending activities.

Reputation risk
The risk of negative publicity regarding CIBC’s business conduct or practices which, whether true or not, could significantly harm CIBC’s reputation as a leading financial institution, or could materially and adversely affect CIBC’s business, operations, or financial condition.

Retail portfolios
A category of exposures that primarily includes consumer but also small business lending, where the primary basis of adjudication relies on credit scoring models.

Risk-weighted assets (RWAs)
RWAs consist of three components: (i) RWAs for credit risk are calculated using the AIRB and standardized approaches. The AIRB RWAs are calculated using PDs, LGDs, EADs, and in some cases maturity adjustment, while the standardized approach applies risk weighting factors specified in the OSFI guidelines to on- and off- balance sheet exposures; (ii) RWAs for market risk in the trading portfolio are based on the internal models approved by OSFI with the exception of the RWAs for traded securitization assets where we are using the methodology defined by OSFI; and (iii) RWAs for operational risk relating to the risk of losses resulting from people, inadequate or failed internal processes, and systems or from external events are calculated under the AMA and standardized approaches. During the period beginning in the third quarter 2014 to the fourth quarter of 2018, CET1 capital RWA, Tier 1 capital RWA, and Total capital RWA, will differ due to the phase-in of the CVA capital charge. Since the introduction of Basel II in 2008, OSFI has prescribed a capital floor requirement for institutions that use the AIRB approach for credit risk. The capital floor is determined by comparing a capital requirement calculated by reference to Basel I against the Basel III calculation, as specified by OSFI. Any shortfall in the Basel III capital requirement compared with the Basel I floor is added to RWAs.

Securitization
The process of selling assets (normally financial assets such as loans, leases, trade receivables, credit card receivables or mortgages) to trusts or other SEs. An SE normally issues securities or other forms of interest to investors and/or the asset transferor, and the SE uses the proceeds of the issue of securities to purchase the transferred assets. The SE will generally use the cash flows generated by the assets to meet the obligations under the securities or other interests issued by the SE, which may carry a number of different risk profiles.

Sovereign exposures
All direct credit risk exposures to governments, central banks and certain public sector entities, and exposures guaranteed by those entities.

Standardized approach for credit risk
Applied to exposures when there is not sufficient information to allow for the use of the AIRB approach for credit risk. Credit risk capital requirements are calculated based on a standardized set of risk weights as prescribed in the Basel Accord. The standardized risk weights are based on external credit assessments, where available, and other risk related factors, including export credit agencies, exposure asset class, collateral, etc.

Standardized approach for operational risk
Capital is based on prescribed percentages that vary by business activity and is applied to the three-year average gross income.

Strategic risk
The risk of ineffective or improper implementation of business strategies, including mergers and acquisitions. It includes the potential financial loss due to the failure of organic growth initiatives or failure to respond appropriately to changes in the business environment.

Stressed Value-at-Risk (VaR)
A VaR calculation using a one-year observation period related to significant losses for the given portfolio at a specified level of confidence and time horizon.

Structural foreign exchange risk
Structural foreign exchange risk is the risk primarily inherent in net investment in foreign operations due to changes in foreign exchange rates.

Structural interest rate risk
Structural interest rate risk (also known as interest rate risk in the banking book) is the risk primarily arising due to mismatches in assets and liabilities, inherent in origination businesses like lending and deposits and in activities of domestic and foreign subsidiaries.

Undrawn exposures
The amount of credit risk exposure resulting from loans that have not been advanced to a customer, but which a customer may be entitled to draw in the future.

Value-at-Risk
Generally accepted risk measure that uses statistical models to estimate the distribution of possible returns on a given portfolio at a specified level of confidence and time horizon.

Shareholder information

Fiscal Year

November 1st to October 31st

Key Dates

Reporting dates 2018
First quarter results – Thursday, February 22, 2018
Second quarter results – Wednesday, May 23, 2018
Third quarter results – Thursday, August 23, 2018
Fourth quarter results – Thursday, November 29, 2018

Annual Meeting of Shareholders 2018
CIBC's Annual Meeting of Shareholders will be held on Thursday, April 5, 2018, at 9:30 a.m. (Atlantic Daylight Time) in Halifax at the Halifax Convention Centre, 4th floor Ballroom, 1650 Argyle Street, Halifax, NS, Canada, B3J 2V9.

Common shares of CIBC (CM) are listed on the Toronto Stock Exchange and the New York Stock Exchange. Preferred shares are listed on the Toronto Stock Exchange.

Dividends
Quarterly dividends were paid on CIBC common and preferred shares in 2017:

Common shares

Ex-dividend date	Record date	Payment date	Dividends per share	Number of common shares on record date
Sep 27/17	Sep 28/17	Oct 27/17	$1.30	439,634,011
Jun 26/17	Jun 28/17	Jul 28/17	$1.27	436,213,524
Mar 24/17	Mar 28/17	Apr 28/17	$1.27	399,805,117
Dec 22/16	Dec 28/16	Jan 27/17	$1.24	397,831,296

Preferred shares

Stock	Series 39	Series 41	Series 43	Series 45
Ticker symbol	CM.PR.O	CM.PR.P	CM.PR.Q	CM.PR.R
Quarterly dividend	$0.24375	$0.234375	$0.22500	$0.27500

2018 dividend payment dates
(Subject to approval by the CIBC Board of Directors)

Record dates	Payment dates
December 28, 2017	January 29, 2018
March 28, 2018	April 27, 2018
June 28, 2018	July 27, 2018
September 28, 2018	October 29, 2018

Eligible dividends
CIBC designates any and all dividends paid or deemed for Canadian federal, provincial or territorial income tax purposes to be paid on or after January 1, 2006 to be "eligible dividends", unless otherwise indicated in respect of dividends paid subsequent to this notification, and hereby notifies all recipients of such dividends of this designation.

Normal course issuer bid
CIBC is conducting a normal course issuer bid to purchase common shares for cancellation in the open market at market price until the earlier of: (i) CIBC purchasing 8 million common shares, (ii) CIBC providing a notice of termination, or (iii) March 13, 2018. A copy of the Notice of Intention to Make a Normal Course Issuer Bid that CIBC filed with the Toronto Stock Exchange may be obtained without charge by contacting the Corporate Secretary.

Regulatory capital
Information on CIBC's regulatory capital instruments and regulatory capital position may be found at www.cibc.com; About CIBC; Investor Relations; Regulatory Capital Instruments.

Credit ratings
Credit rating information can be found on page 73 in this report.

Shareholder investment plan
All Canadian and U.S. resident registered holders of CIBC common shares and designated Class A preferred shares may participate in one or more of the following options and pay no brokerage commissions or service charges:

Dividend reinvestment option – Canadian residents may have dividends reinvested in additional CIBC common shares.
Share purchase option – Canadian residents may purchase up to $50,000 of additional CIBC common shares during the fiscal year.
Stock dividend option – U.S. residents may elect to receive stock dividends on CIBC common shares.

Further information is available through AST Trust Company (Canada) (formerly CST Trust Company) and on the CIBC website at www.cibc.com.

Transfer agent and registrar
For information relating to shareholdings, shareholder investment plan, dividends, direct dividend deposit, dividend reinvestment accounts and lost certificates, or to eliminate duplicate mailings of shareholder material, please contact:

AST Trust Company (Canada), P.O. Box 700, Postal Station B, Montreal, QC, H3B 3K3
416 682-3860 or 1 800 258-0499 (Canada and the U.S. only), Fax 1 888 249-6189, Email: inquiries@astfinancial.com, Website: www.astfinancial.com.

Common and preferred shares are transferable in Canada at the offices of our agent, AST Trust Company (Canada), in Toronto, Montreal, Calgary and Vancouver.

In the United States, common shares are transferable at:
Computershare Inc., By Mail: P.O. Box 43078 Providence, RI 02940-3078; By Overnight Delivery: 250 Royall Street, Canton, MA 02021, 1 800 589-9836, Website: www.computershare.com/investor.

Board of Directors:

The Hon. John P. Manley, P.C., O.C.
Chair of the Board
CIBC
President and Chief Executive Officer
Business Council of Canada
Ottawa, Ontario, Canada
Joined in 2005

Brent S. Belzberg
(CGC, RMC)
Senior Managing Partner
Torquest Partners
Toronto, Ontario, Canada
Joined in 2005

Nanci E. Caldwell
(RMC)
Former Executive Vice-President and Chief Marketing Officer
PeopleSoft, Inc.
Woodside, California, U.S.A.
Joined in 2015

Michelle L. Collins
(RMC)
President
Cambium LLC
Chicago, Illinois, U.S.A.
Joined in 2017

Gary F. Colter
(AC, CGC)
President
CRS Inc.
Mississauga, Ontario, Canada
Joined in 2003

Patrick D. Daniel
(CGC, MRCC)
Past President and Chief Executive Officer
Enbridge Inc.
Calgary, Alberta, Canada
Joined in 2009

Luc Desjardins
(AC)
President and Chief Executive Officer
Superior Plus Corp.
Toronto, Ontario, Canada
Joined in 2009

Victor G. Dodig
President and Chief Executive Officer
CIBC
Toronto, Ontario, Canada
Joined in 2014

Linda S. Hasenfratz
(MRCC – Chair)
Chief Executive Officer
Linamar Corporation
Guelph, Ontario, Canada
Joined in 2004

Kevin J. Kelly
(AC)
Corporate Director
Toronto, Ontario, Canada
Joined in 2013

Christine E. Larsen
(AC)
Executive Vice President and Chief Operations Officer
First Data Corporation
Montclair, New Jersey, U.S.A.
Joined in 2016

Nicholas D. Le Pan
(MRCC)
Corporate Director
Ottawa, Ontario, Canada
Joined in 2008

Jane L. Peverett
(AC – Chair)
Corporate Director
West Vancouver, British Columbia, Canada
Joined in 2009

Katharine B. Stevenson
(CGC – Chair, MRCC)
Corporate Director
Toronto, Ontario, Canada
Joined in 2011

Martine Turcotte
(CGC, RMC)
Vice Chair, Québec
BCE Inc. and Bell Canada
Verdun, Québec, Canada
Joined in 2014

Ronald W. Tysoe
(RMC – Chair)
Corporate Director
Naples, Florida, U.S.A.
Joined in 2004

Barry L. Zubrow
(RMC)
President
ITB LLC
Far Hills, New Jersey, U.S.A.
Joined in 2015

AC – Audit Committee
CGC – Corporate Governance Committee
MRCC – Management Resources and Compensation Committee
RMC – Risk Management Committee

Exhibit B.6(a)(1) Certifications required by Rule 13a-14(a)

CERTIFICATIONS

I, Victor G. Dodig, certify that:

1. I have reviewed this annual report on Form 40-F of Canadian Imperial Bank of Commerce;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the issuer as of, and for, the periods presented in this report;

4. The issuer's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the issuer and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the issuer, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the issuer's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the issuer's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the issuer's internal control over financial reporting; and

5. The issuer's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the issuer's auditors and the audit committee of the issuer's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the issuer's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the issuer's internal control over financial reporting.

Date: November 30, 2017

/s/ Victor G. Dodig

Victor G. Dodig
President and Chief Executive Officer

I, Kevin Glass, certify that:

1. I have reviewed this annual report on Form 40-F of Canadian Imperial Bank of Commerce;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the issuer as of, and for, the periods presented in this report;

4. The issuer's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the issuer and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the issuer, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the issuer's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the issuer's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the issuer's internal control over financial reporting; and

5. The issuer's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the issuer's auditors and the audit committee of the issuer's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the issuer's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the issuer's internal control over financial reporting.

Date: November 30, 2017

/s/ Kevin Glass

Kevin Glass
Senior Executive Vice-President and
Chief Financial Officer

Exhibit B.6(a)(2): Certifications required by Rule 13a-14(b) and Section 1350 of Chapter 63 of Title 18 of the United States Code

Certification pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

In connection with the annual report of Canadian Imperial Bank of Commerce ("CIBC") filed under cover of a Form 40-F for the period ended October 31, 2017 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Victor G. Dodig, President and Chief Executive Officer of CIBC, certify that:

(1) the Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

(2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of CIBC.

/s/ Victor G. Dodig
Victor G. Dodig
President and Chief Executive Officer

Date: November 30, 2017

In connection with the annual report of Canadian Imperial Bank of Commerce ("CIBC") filed under cover of a Form 40-F for the period ended October 31, 2017 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Kevin Glass, Senior Executive Vice-President and Chief Financial Officer of CIBC, certify that:

(1) the Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

(2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of CIBC.

/s/ Kevin Glass
Kevin Glass
Senior Executive Vice-President and
Chief Financial Officer

Date: November 30, 2017

Exhibit B.8: Disclosure regarding audit committee financial expert

CIBC's Board of Directors has determined that (i) CIBC has at least one "audit committee financial expert" (as that term is defined in General Instruction B(8)(b) of the General Instructions to Form 40-F) serving on its audit committee, the members of which are Mr. Gary F. Colter, Mr. Luc Desjardins, Mr. Kevin J. Kelly, Ms. Jane L. Peverett and Ms. Christine E. Larsen, (ii) each of Mr. Gary F. Colter, Mr. Kevin J. Kelly, Mr. Luc Desjardins, and Ms. Jane L. Peverett is an "audit committee financial expert" (as so defined), and (iii) each audit committee member is "independent" (as that term is defined in the listing standards of the New York Stock Exchange).

In accordance with the rules of the Securities and Exchange Commission, notwithstanding their designation as "audit committee financial expert," each of the individuals listed above shall not (i) be deemed "experts" for any purpose, including, without limitation, for purposes of Section 11 of the Securities Act of 1933, as amended, or (ii) have any greater duties, obligations or liability than those imposed on any other member of the audit committee or board of directors.

Exhibit B.9: Disclosure regarding code of ethics

CIBC has adopted a Code of Conduct applicable to all its officers, contractors and employees, including CIBC's Chief Executive Officer, Chief Financial Officer, Global Controller and Chief Accountant. The Code of Conduct meets the definition of a "code of ethics" (as that term is defined in General Instruction B(9)(b) of the General Instructions to Form 40-F). The Code of Conduct is available on CIBC's website at https://www.cibc.com/ca/inside-cibc/governance/governance-practices/code-of-conduct.html. No waivers from the provisions of the Code of Conduct were granted in the fiscal year ended October 31, 2017 to the Chief Executive Officer, Chief Financial Officer, Global Controller or Chief Accountant of CIBC.

Effective March 1, 2017, CIBC adopted the following amendments to the Code of Conduct:

- *Outside Activities*: The Code of Conduct was amended to include a new requirement for employees who wish to serve on a public company board to obtain Executive Committee and CEO approval, in addition to approval from their manager and the Compliance Department, before accepting such appointment.
- *Whistleblower Policy*: References to CIBC's Whistleblower Policy were added to sections 8 and 9 of the Code of Conduct.

In addition to these changes, certain other technical, administrative or non-substantive amendments were made to the Code of Conduct.

Effective November 1, 2017, CIBC adopted the following amendments to the Code of Conduct:

- *Knowing and Respecting Our Clients* : A new subsection was added to the Code of Conduct highlighting the need to act with integrity, transparency and respect in all dealings with CIBC clients.
- *Preventing Financial Crime*: A new subsection was added to the Code of Conduct highlighting requirements relating to the prevention of money laundering, terrorist financing and other financial crimes.
- *Modern Slavery Act Statement*: The Code of Conduct was amended to include reference to CIBC's Modern Slavery Act Statement, which is prepared and updated annually in accordance with the United Kingdom's Modern Slavery Act, 2015.

In addition to these changes, certain other technical, administrative or non-substantive amendments were made to the Code of Conduct.

Exhibit B.10: Principal accountant fees and services

Information about the principal accountant fees and services is contained in Exhibit B.3(c). The Audit Committee of CIBC pre-approves all services performed by the shareholders' auditor for CIBC and its subsidiaries in accordance with the Policy on the Scope of Services of the Shareholders' Auditors, which is described in Exhibit B.3(a).

Exhibit B.12: Tabular disclosure of contractual obligations

The following table provides the maturity profile of our liabilities based upon contractual repayment obligations, and excludes contractual cash flows related to derivative liabilities:

Contractual obligations

The following table provides the contractual maturity profile of our on-balance sheet liabilities and equity at their carrying values:

$ millions, as at October 31, 2017 (1)	Less than 1 year	1–3 years	3–5 years	Over 5 years	No specified maturity	Total
Liabilities						
Deposits (2)	**$133,481**	**$ 51,943**	**$ 26,965**	**$ 6,881**	**$ 220,436**	**$439,706**
Obligations related to securities sold short	**13,713**	**—**	**—**	**—**	**—**	**13,713**
Cash collateral on securities lent	**2,024**	**—**	**—**	**—**	**—**	**2,024**
Obligations related to securities sold under repurchase agreements	**27,971**	**—**	**—**	**—**	**—**	**27,971**
Derivative instruments	**8,389**	**4,568**	**3,169**	**7,145**	**—**	**23,271**
Acceptances	**8,828**	**—**	**—**	**—**	**—**	**8,828**
Other liabilities	**—**	**—**	**—**	**—**	**15,305**	**15,305**
Subordinated indebtedness	**38**	**—**	**—**	**3,171**	**—**	**3,209**
Equity	**—**	**—**	**—**	**—**	**31,237**	**31,237**
	$194,444	**$ 56,511**	**$ 30,134**	**$ 17,197**	**$ 266,978**	**$565,264**
October 31, 2016	$178,293	$ 54,945	$ 24,825	$ 21,033	$ 222,261	$501,357

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017.
(2) Comprises $159.3 billion (2016: $148.1 billion) of personal deposits of which $149.5 billion (2016: $143.3 billion) are in Canada and $9.8 billion (2016: $4.8 billion) are in other countries; $266.6 billion (2016: $229.7 billion) of business and government deposits and secured borrowings of which $192.7 billion (2016: $171.9 billion) are in Canada and $73.9 billion (2016: $57.8 billion) are in other countries; and $13.8 billion (2016: $17.8 billion) of bank deposits of which $6.6 billion (2016: $6.8 billion) are in Canada and $7.2 billion (2016: $11.0 billion) are in other countries.

Credit-related commitments

The following table provides the contractual maturity of notional amounts of credit-related commitments:

$ millions, as at October 31, 2017 (1)	Less than 1 year	1–3 years	3–5 years	Over 5 years	No specified maturity (2)	Total
Securities lending (3)	**$ 46,753**	**$ —**	**$ —**	**$ —**	**$ —**	**$ 46,753**
Unutilized credit commitments	**14,120**	**23,726**	**26,247**	**1,889**	**143,182**	**209,164**
Backstop liquidity facilities	**11,066**	**116**	**—**	**13**	**—**	**11,195**
Standby and performance letters of credit	**10,584**	**1,190**	**972**	**18**	**—**	**12,764**
Documentary and commercial letters of credit	**209**	**5**	**—**	**—**	**—**	**214**
Other	**269**	**—**	**—**	**—**	**—**	**269**
	$ 83,001	**$ 25,037**	**$ 27,219**	**$ 1,920**	**$ 143,182**	**$280,359**
October 31, 2016	$ 69,423	$ 17,543	$ 24,908	$ 1,393	$ 133,514	$246,781

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017.
(2) Includes $111.7 billion (2016: $105.0 billion) of personal, home equity and credit card lines, which are unconditionally cancellable at our discretion.
(3) Excludes securities lending of $2.0 billion (2016: $2.5 billion) for cash because it is reported on the consolidated balance sheet.

Other contractual obligations

The following table provides the contractual maturities of other contractual obligations:

$ millions, as at October 31, 2017 (1)	Less than 1 year	1–3 years	3–5 years	Over 5 years	Total
Operating leases	**$ 477**	**$ 839**	**$ 716**	**$ 3,229**	**$ 5,261**
Purchase obligations (2)	**977**	**867**	**347**	**122**	**2,313**
Pension contributions (3)	**184**	**—**	**—**	**—**	**184**
Underwriting commitments	**424**	**—**	**—**	**—**	**424**
Investment commitments	**8**	**6**	**3**	**126**	**143**
	$ 2,070	**$ 1,712**	**$ 1,066**	**$ 3,477**	**$ 8,325**
October 31, 2016	$ 1,773	$ 1,842	$ 985	$ 1,532	$ 6,132

(1) Includes the balances of CIBC Bank USA following the completion of the acquisition on June 23, 2017.

(2) Obligations that are legally binding agreements whereby we agree to purchase products or services with specific minimum or baseline quantities defined at fixed, minimum or variable prices over a specified period of time are defined as purchase obligations. Purchase obligations are included through to the termination date specified in the respective agreements, even if the contract is renewable. Many of the purchase agreements for goods and services include clauses that would allow us to cancel the agreement prior to expiration of the contract within a specific notice period. However, the amount above includes our obligations without regard to such termination clauses (unless actual notice of our intention to terminate the agreement has been communicated to the counterparty). The table excludes purchases of debt and equity instruments that settle within standard market time frames.

(3) Includes estimated minimum funding contributions for our funded defined benefit pension plans in Canada, the U.S., the U.K., and the Caribbean. Estimated minimum funding contributions are included only for the next annual period as the minimum contributions are affected by various factors, such as market performance and regulatory requirements, and therefore are subject to significant variability.

Exhibit D.9: Consent of Independent Registered Public Accounting Firm

Consent of Independent Registered Public Accounting Firm

We consent to the reference to our Firm under the caption “Experts”, and to the incorporation by reference in the following Registration Statements:

(1) Forms F-3 no. 333-202584; 333-216286; 333-219550; and 333-220284;

(2) Form F-10 no. 333-216541;

(3) Form S-8 nos. 333-09874; 333-130283 and 333-218913

of Canadian Imperial Bank of Commerce (“CIBC”) and the use herein of our reports dated November 29, 2017, with respect to the consolidated balance sheets as at October 31, 2017 and October 31, 2016 and the consolidated statements of income, comprehensive income, changes in equity and cash flows for each of the years in the three-year period ended October 31, 2017 and with respect to the report on internal controls under standards of the Public Company Accounting Oversight Board (United States) as of October 31, 2017, included in this Annual Report (Form 40-F).

/s/ Ernst & Young LLP

Chartered Professional Accountants
Licensed Public Accountants
Toronto, Canada
November 29, 2017