FINANCIAL REPORTING

The Financial Reporting section highlights sections of the financial statements that management views as key to understanding the financial position of the plan.

Included in the pages preceding the consolidated financial statements are three letters that describe the responsibility of management, the auditors and the actuaries:

- Management's Responsibility for Financial Reporting – identifies that management is responsible for preparation of the consolidated financial statements. The financial statements are prepared according to Canadian accounting standards for pension plans. The board, which is independent from management, has ultimate responsibility for the financial statements and is assisted in its responsibility by the Audit & Actuarial Committee.
- Auditor's Report to the Administrator – the formal opinion issued by an external auditor on the consolidated financial statements.
- Actuaries' Opinion – identifies that actuarial valuation methods are appropriate, data is sufficient and reliable and the assumptions are in accordance with accepted actuarial practices. The actuarial valuation is based on membership data, actuarial and accounting standards, and long-term interest rates.

FINANCIAL STATEMENT VALUATION

The financial statement valuation measures the fair value of the plan's net assets available for benefits and pension liabilities at a point in time. The financial statement valuation provides a snapshot of the financial health of the plan as it does not assume any future contributions and does not project the cost of benefits that current members have not yet earned. The financial statement valuation is therefore not considered an indicator of the long-term sustainability of the plan and not used by the plan sponsors to set contribution rates and benefit levels.

Methods and assumptions used for the financial statement valuation

The financial statement valuation is prepared in accordance with guidance from Chartered Professional Accountants of Canada (CPA Canada). The pension liabilities, prepared by an independent actuary, take into account pension credit earned to date by all plan members and contributions already received by the plan. Valuation techniques, estimates and pension liabilities are described further in the notes to the consolidated financial statements.

The actuarial assumptions used in determining the pension liabilities reflect best estimates of future economic and non-economic factors proposed by management and approved by the plan's board. Actual experience typically differs from these assumptions, and the differences are recognized as experience gains and losses in future years.

The discount rate for the financial statements is based on market rates, as at the valuation date, of bonds issued by the Province of Ontario, which have characteristics similar to the Plan's liabilities. The discount rate is determined by using a cash flow-based estimation methodology which applies a weighted average discount rate that reflects the estimated timing and amount of benefit payments. The discount rate used is 3.25% (3.25% in 2015). Further details on the methods and assumptions used can be found in note 4 of the plan's consolidated financial statements.

FINANCIAL POSITION AS AT DECEMBER 31, 2016

The plan ended 2016 with a financial statement deficit of $13.8 billion, up from the deficit of $1.8 billion at the end of 2015. The deficit represents the difference between net assets available for benefits of $175.6 billion and accrued pension benefits of $189.4 billion at year end.

YEAR-END FINANCIAL POSITION

(as at December 31) (Canadian $ billions)	**2016**	2015
Net assets available for benefits	**$ 175.6**	$ 171.4
Accrued pension benefits	**189.4**	173.2
Deficit	**$ (13.8)**	$ (1.8)

During 2016, net assets available for benefits increased by $4.2 billion. Net investment income of $7.0 billion and contributions of $3.4 billion increased net assets available for benefits, while benefits paid of $5.7 billion and administrative expenses of $0.5 billion decreased the net assets available. Net investment income was due to moderate gains across all asset classes (investment returns are discussed in the Investments section of the MD&A).

NET ASSETS AVAILABLE FOR BENEFITS

(as at December 31) (Canadian $ billions)	**2016**	2015
Net assets available for benefits, beginning of year	**$ 171.4**	$ 154.5
Investment income	**7.0**	19.6
Contributions	**3.4**	3.3
Benefits paid	**(5.7)**	(5.5)
Administrative expenses	**(0.5)**	(0.5)
Increase in net assets available for benefits	**4.2**	16.9
Net assets available for benefits, end of year	**$ 175.6**	$ 171.4

Accrued pension benefits increased by $16.2 billion during the year to $189.4 billion. Changes in actuarial assumptions increased the accrued pension benefits amount by $9.4 billion. Benefits paid during 2016 of $5.7 billion include the addition of 4,800 retirement and disability pensions and 1,000 survivor pensions during 2016, as well as a 1.3% cost-of-living increase.

ACCRUED PENSION BENEFITS

(as at December 31) (Canadian $ billions)	**2016**	2015
Accrued pension benefits, beginning of year	**$ 173.2**	$ 172.7
Interest on accrued pension benefits	**5.7**	5.8
Benefits accrued	**5.3**	5.2
Benefits paid	**(5.7)**	(5.5)
Changes in actuarial assumptions	**9.4**	(3.6)
Changes in level of conditional indexing	**1.7**	0.7
Experience gains	**(0.2)**	(2.1)
Increase in accrued pension benefits	**16.2**	0.5
Accrued pension benefits, end of year	**$ 189.4**	$ 173.2

FAIR VALUE HIERARCHY

The plan's investments and investment-related liabilities are stated at fair value. The objective of fair value determination is to estimate an exit price at which an orderly transaction to sell the asset or to transfer the liability would take place between market participants. Valuation techniques are employed in order to measure fair value. As described in note 1c of the plan's consolidated financial statements, these techniques utilize inputs such as prices for market transactions, discount rates, contractual or expected future cash flows and other relevant factors that impact the assessment of fair value.

As required under Canadian accounting standards, the plan has classified and disclosed its fair value measurements into one of three categories based upon the degree of observable inputs used in their determination. Level 1 inputs consist of quoted prices in active markets for identical assets or liabilities; Level 2 inputs are derived from observable prices but do not meet the Level 1 criteria, while Level 3 inputs are unobservable. If different levels of inputs are used to measure the fair value of an investment, the classification within the hierarchy is based upon the lowest level input that is significant to the fair value measurement.

Level 1 net investments comprise the majority of the plan's government bonds and publicly traded equities, including these securities that are sold but not yet purchased, which are valued using quoted prices. Examples of Level 2 net investments include marketable corporate bonds that are valued using quoted prices from less actively traded markets and securities purchased under agreements to resell and securities sold under agreements to repurchase, which are valued using discounted cash flows and observable market yields. Examples of Level 3 investments include real assets such as real estate and infrastructure, non-publicly traded equities, and natural resource investments, which are valued using appropriate techniques that involve the use of significant unobservable inputs such as forecasted cash flows or other information that is specific to the entity.

The table below shows the plan's net investments based on the fair value hierarchy. Further details of each category can be found in note 2a of the plan's consolidated financial statements.

(for the year ended December 31, 2016 (Canadian $ millions)	Level 1	Level 2	Level 3	**Total**
Fixed income	$ 83,706	$ 12,051	$ 14,238	**$ 109,995**
Equity	27,785	248	29,361	**57,394**
Natural resources	—	—	6,273	**6,273**
Real assets	3,271	295	45,183	**48,749**
Investment-related receivables	2,146	30,922	237	**33,305**
Investment-related liabilities	(21,343)	(60,284)	(2,007)	**(83,634)**
Net investments	$ 95,565	$ (16,768)	$ 93,285	**$ 172,082**

EFFECTIVE OVERSIGHT AND CONTROLS

Disclosure and financial reporting controls

We take guidance from National Instrument 52-109, Certification of Disclosure in Issuers' Annual and Interim Filings, issued by the Canadian Securities Administrators, as part of our commitment to good governance practices. The President and CEO, and the Chief Financial Officer are responsible for establishing and maintaining disclosure controls and procedures, and internal control over financial reporting.

We have designed disclosure controls and procedures to provide reasonable assurance that material information related to the plan is gathered and reported to management in order to allow timely decisions regarding public disclosure. We evaluated our disclosure controls and procedures and concluded as at December 31, 2016, that they are effective.

We have also designed internal control over financial reporting, using the Integrated Framework issued in 2013 by the Treadway Commission's Committee of Sponsoring Organizations (the COSO Framework), to provide reasonable assurance regarding the reliability of financial reporting and the preparation of consolidated financial statements for external purposes in accordance with Canadian Generally Accepted Accounting Principles. We have evaluated the effectiveness of the plan's internal control over financial reporting and concluded they are effective as at year end.

Protecting audit quality and integrity

A key oversight activity of audit committees is annually assessing the effectiveness of the external auditor. This helps audit committees meet their responsibility to make informed recommendations to the board on whether or not to reappoint the external auditor. Ontario Teachers' has conducted assessments annually. Ontario Teachers' Audit & Actuarial Committee recommended, and the board approved, the reappointment of the external auditor for 2016.

Ontario Teachers' and other corporate governance advocates have expressed concern over the years about accounting firms that audit public companies and also earn substantial revenue from those companies for non-audit consulting services. We believe that such consulting fees can compromise, or appear to compromise, the integrity of the audit function.

We strive to minimize our own use of consulting services involving the plan's auditor and we disclose the total amount paid for such services. In 2016, fees paid to Deloitte Touche Tohmatsu Limited (of which the Canadian firm is the plan's auditor) totalled $11.1 million ($11.8 million in 2015), of which $10.4 million was for audit activities and $715,000 was for non-audit services. Of the $715,000 paid for non-audit services, approximately $335,000 related to the plan, $370,000 related to subsidiaries audited by Deloitte and the balance of $10,000 was for subsidiaries not audited by Deloitte. Of the $370,000 paid by the subsidiaries audited by Deloitte, $115,000 was paid to Deloitte (Canada) and $255,000 was paid to Deloitte firms outside of Canada, which are considered to have lower risk of impairing the independence of the plan's auditor.

MANAGEMENT'S RESPONSIBILITY FOR FINANCIAL REPORTING

The consolidated financial statements of the Ontario Teachers' Pension Plan have been prepared by management, which is responsible for the integrity and fairness of the data presented, including the many amounts which must, of necessity, be based on estimates and judgments. The accounting policies followed in the preparation of these consolidated financial statements conform to Canadian accounting standards for pension plans. Financial information presented throughout the annual report is consistent with the consolidated financial statements.

Systems of internal control and supporting procedures are maintained to provide assurance that transactions are authorized, assets safeguarded and proper records maintained. These controls include quality standards in hiring and training of employees, a code of conduct, the establishment of an organizational structure that provides a well-defined division of responsibilities and accountability for performance, and the communication of policies and guidelines through the organization.

Ultimate responsibility for the consolidated financial statements rests with the members of the Board. The Board is assisted in its responsibilities by the Audit & Actuarial Committee (the Committee), consisting of seven Board members who are not officers or employees of the Plan Administrator. In addition, the Committee reviews the recommendations of the internal and external auditors for improvements in internal control and the action of management to implement such recommendations. In carrying out its duties and responsibilities, the Committee meets regularly with management and with both the external and internal auditors to review the scope and timing of their respective audits, to review their findings and to satisfy itself that their responsibilities have been properly discharged. This Committee reviews the consolidated financial statements and recommends them for approval by the Board.

The Plan's external auditor, Deloitte LLP, is directly accountable to the Audit & Actuarial Committee and has full and unrestricted access to the Committee. They discuss with the Committee their audit and related findings as to the integrity of the Plan's financial reporting and the adequacy of internal control systems. The Plan's external auditor has conducted an independent examination of the consolidated financial statements in accordance with Canadian generally accepted auditing standards, performing such tests and other procedures as they consider necessary to express the opinion in their Report to the Administrator.

R Mock.

Ron Mock
President and Chief Executive Officer
March 2, 2017

David McGraw

David McGraw
Chief Financial Officer

AUDITOR'S REPORT TO THE ADMINISTRATOR

We have audited the accompanying consolidated financial statements of Ontario Teachers' Pension Plan Board which comprise the consolidated statements of financial position as at December 31, 2016, and the consolidated statements of changes in net assets available for benefits, consolidated statements of changes in accrued pension benefits and consolidated statements of changes in deficit for the year then ended 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 financial statements in accordance with Canadian accounting standards for pension plans and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

AUDITOR'S RESPONSIBILITY

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes 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 financial statements.

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

OPINION

In our opinion, the financial statements present fairly, in all material respects, the financial position of Ontario Teachers' Pension Plan Board as at December 31, 2016, and the changes in its net assets available for benefits, changes in accrued pension benefits and changes in deficit for the year then ended in accordance with Canadian accounting standards for pension plans.

Deloitte LLP.

Chartered Professional Accountants
Licensed Public Accountants
Toronto, Ontario
March 2, 2017

ACTUARIES' OPINION

Mercer (Canada) Limited was retained by the Ontario Teachers' Pension Plan Board (the Board) to perform an actuarial valuation of the going concern liabilities of the Ontario Teachers' Pension Plan (the Plan) as at December 31, 2016, for inclusion in the Plan's consolidated financial statements. As part of the valuation, we examined the Plan's recent experience with respect to the non-economic assumptions and presented our findings to the Board.

The valuation of the Plan's actuarial liabilities was based on:

- membership data provided by the Ontario Teachers' Pension Plan Board as at August 31, 2016;
- methods prescribed by Section 4600 of the Chartered Professional Accountants Canada Handbook for pension plan financial statements;
- real and nominal interest rates on long-term bonds at the end of 2016;
- assumptions about future events (for example, future rates of inflation and future retirement rates) which have been communicated to us as the Board's best estimate of these events; and
- information obtained from the Ontario Ministry of Labour and other published data, where applicable, on wage rate changes.

The objective of the consolidated financial statements is to fairly present the financial position of the Plan on December 31, 2016, as a going concern. This is different from the statutory valuation (the actuarial valuation required by the Pension Benefits Act (Ontario)), which establishes a prudent level for future contributions.

While the actuarial assumptions used to estimate liabilities for the Plan's consolidated financial statements represent the Board's best estimate of future events and market conditions at the end of 2016, and while in our opinion these assumptions are reasonable, the Plan's future experience will inevitably differ, perhaps significantly, from the actuarial assumptions. Any differences between the actuarial assumptions and future experience will emerge as gains or losses in future valuations, and will affect the financial position of the Plan at that time.

We have tested the data for reasonableness and consistency, and we believe it to be sufficient and reliable for the purposes of the valuation. We also believe that the methods employed in the valuation are appropriate for the purposes of the valuation, and that the assumptions used in the valuation are in accordance with accepted actuarial practice. Our opinions have been given, and our valuation has been performed, in accordance with accepted actuarial practice in Canada.

Scott Clausen

Scott Clausen, F.C.I.A., F.S.A.
March 2, 2017

Lise Houle

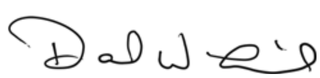
Lise Houle, F.C.I.A., F.S.A.

CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

As at December 31 (Canadian $ millions)		**2016**		2015
Net assets available for benefits				
ASSETS				
Cash	**$**	**241**	$	340
Receivable from the Province of Ontario (note 3)		**3,273**		3,208
Receivable from brokers		**907**		39
Investments (note 2)		**255,716**		262,912
Premises and equipment		**57**		64
		260,194		266,563
LIABILITIES				
Accounts payable and accrued liabilities		**382**		377
Due to brokers		**608**		80
Investment-related liabilities (note 2)		**83,634**		94,666
		84,624		95,123
Net assets available for benefits	**$**	**175,570**	$	171,440
Accrued pension benefits and deficit				
Accrued pension benefits (note 4)	**$**	**189,397**	$	173,266
Deficit		**(13,827)**		(1,826)
Accrued pension benefits and deficit	**$**	**175,570**	$	171,440

On behalf of the Plan administrator:

Chair



Board Member

CONSOLIDATED STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

For the year ended December 31 (Canadian $ millions)	2016	2015
Net assets available for benefits, beginning of year	$ 171,440	$ 154,476
Investment operations		
Net investment income (note 6)	6,998	19,672
Administrative expenses (note 11a)	(451)	(429)
Net investment operations	6,547	19,243
Member service operations		
Contributions (note 9)	3,363	3,310
Benefits paid (note 10)	(5,725)	(5,537)
Administrative expenses (note 11b)	(55)	(52)
Net member service operations	(2,417)	(2,279)
Increase in net assets available for benefits	4,130	16,964
Net assets available for benefits, end of year	$ 175,570	$ 171,440

CONSOLIDATED STATEMENTS OF CHANGES IN ACCRUED PENSION BENEFITS

For the year ended December 31 (Canadian $ millions)	2016	2015
Accrued pension benefits, beginning of year	$ 173,266	$ 172,725
Increase in accrued pension benefits		
Interest on accrued pension benefits	5,679	5,804
Benefits accrued	5,303	5,246
Changes in actuarial assumptions and methods (note 4a)	9,394	—
Changes in level of conditional indexing (note 4b)	1,674	675
	22,050	11,725
Decrease in accrued pension benefits		
Benefits paid (note 10)	5,725	5,537
Changes in actuarial assumptions and methods (note 4a)	—	3,538
Experience gains (note 4c)	194	2,109
	5,919	11,184
Net increase in accrued pension benefits	16,131	541
Accrued pension benefits, end of year	$ 189,397	$ 173,266

CONSOLIDATED STATEMENTS OF CHANGES IN DEFICIT

For the year ended December 31 (Canadian $ millions)	2016	2015
Deficit, beginning of year	$ (1,826)	$ (18,249)
Increase in net assets available for benefits	4,130	16,964
Net increase in accrued pension benefits	(16,131)	(541)
Deficit, end of year	$ (13,827)	$ (1,826)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

For the year ended December 31, 2016

DESCRIPTION OF PLAN

The following description of the Ontario Teachers' Pension Plan (the Plan) is a summary only. For more complete information, reference should be made to the *Teachers' Pension Act (Ontario)* (the TPA) as amended.

(a) General

The Plan is governed by the TPA. It is a contributory defined benefit pension plan co-sponsored by the Province of Ontario (the Province) and Plan members, represented by Ontario Teachers' Federation (OTF) (the co-sponsors). The terms of the Plan are set out in Schedule 1 to the TPA.

The Plan is registered with the Financial Services Commission of Ontario (FSCO) and under the *Income Tax Act* (Canada) (the ITA) (registration number 0345785) as a Registered Pension Plan which is not subject to income taxes in Canada. The Plan may be liable for taxes in other jurisdictions where full tax exemptions are not available.

The Plan is administered and the investments are managed by the Ontario Teachers' Pension Plan Board (the Board). Under the TPA, the Board is constituted as a corporation without share capital to which the *Corporations Act (Ontario)* does not apply.

(b) Funding

Plan benefits are funded by contributions and investment earnings. Contributions are made by active members of the Plan and are matched by either the Province or designated employers. The determination of the value of the accrued pension benefits and required contributions is made on the basis of periodic actuarial valuations.

(c) Retirement pensions

A retirement pension is available based on the number of years of credited service, the average of the best five annual salaries and the age of the member at retirement. A member is eligible for a reduced retirement pension from age 50. An unreduced retirement pension is available at either age 65 or when the sum of a member's age and qualifying service equals 85.

(d) Disability pensions

A disability pension is available at any age to a disabled member with a minimum of 10 years of qualifying service. The type of disability pension is determined by the extent of the disability.

(e) Death benefits

Death benefits are available on the death of an active member and may be available on the death of a retired member. The benefit may take the form of a survivor pension, lump-sum payment or both.

(f) Escalation of benefits

Pension benefits are adjusted in January each year for inflation, subject to an upper limit of 8% and a lower limit of 0% in any one year with any excess above or below those limits carried forward. For credited service earned up to December 31, 2009, inflation protection is 100% of the change in the Consumer Price Index. Credited service earned after December 31, 2009, is subject to conditional inflation protection. For credited service earned between January 1, 2010, and December 31, 2013, the minimum indexation level is set at 50% of the change in the Consumer Price Index. There is no minimum level of inflation protection for credited service earned after 2013. The indexation level stated in the most recent funding valuation filing remains in effect until a subsequent filing updates the amount. Inflation protection of up to 100% for credited service earned after 2009 can be restored on a go-forward basis, depending on the Plan's funded status.

(g) Retirement Compensation Arrangement

Restrictions in the ITA and its regulations on the payment of certain benefits from the registered pension plan for periods of service after 1991 may impact some Plan members. To address affected members, the Retirement Compensation Arrangement (the RCA) was established by agreement between the co-sponsors as a supplementary plan to provide for these benefits. Examples of these benefits include: (1) members of the Plan who retired with average earnings above $156,299 (CPP-exempt members $144,500) in 2016 and $152,447 (CPP-exempt members $140,945) in 2015; and (2) members whose pensions would require a larger reduction for early retirement to comply with the ITA limitations than the Plan would impose. Because the RCA is a separate trust, the net assets available for benefits and accrued benefits and deficit of the RCA are not included in these consolidated financial statements.

NOTE 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

(a) Basis of presentation

These consolidated financial statements are prepared in Canadian dollars, the Plan's functional currency, in accordance with the accounting standards for pension plans in Part IV of the Chartered Professional Accountants (CPA) Canada Handbook (Section 4600). Section 4600 provides specific accounting guidance on investments and pension obligations. For accounting policies that do not relate to either investments or pension obligations, the Plan must consistently comply with either International Financial Reporting Standards (IFRS) in Part I or accounting for private enterprises in Part II of the CPA Canada Handbook. The Plan has elected to comply with IFRS in Part I of the CPA Canada Handbook. To the extent that IFRS in Part I is inconsistent with Section 4600, Section 4600 takes precedence.

The Plan’s real estate portfolio is comprised of real estate-related investments that are either owned or managed on behalf of the Plan by The Cadillac Fairview Corporation Limited (CFCL), a wholly owned subsidiary. The Plan consolidates CFCL, Ontario Teachers’ Finance Trust (OTFT), a special purpose entity created to support the Plan’s financing activities, and wholly owned investment holding companies that are managed by either the Plan or CFCL. Investment holding companies that are managed by external parties are recognized as the Plan’s investment assets. Under Section 4600, investment assets, including those over which the Plan has control or significant influence, are measured at fair value and presented on a non-consolidated basis.

The consolidated financial statements for the year ended December 31, 2016 were authorized for issue through a resolution of the Board on March 2, 2017.

(b) Future changes in accounting policies

The relevant new guidance issued by the International Accounting Standards Board not yet adopted by the Plan includes:

- IFRS 9, Financial Instruments. The new standard will replace IAS 39, Financial Instruments: Recognition and Measurement and includes guidance on recognition and derecognition of financial assets and financial liabilities, impairment and hedge accounting. The new standard will come into effect January 1, 2018, with early application permitted.

Management does not expect any significant impact on either the Plan’s financial position or its investment income when adopting the new standard.

(c) Investments

Valuation of investments

Investments are either directly or indirectly owned by the Plan. Investment-related liabilities are incurred by the Plan directly. Details of investments and investment-related liabilities are presented in note 2a and are stated at fair value. Fair value is the price that would either be received to sell an asset or be paid to transfer a liability in an orderly transaction (i.e., an exit price) between market participants at the measurement date. In an active market, fair value is best evidenced by an independent quoted market price. In the absence of an active market, fair value is determined by valuation techniques that make maximum use of inputs observed from markets.

Fair values of investments are determined as follows:

a. Short-term investments and commercial paper are valued using either quoted closing mid-market prices or discounted cash flows based on current market yields, when quoted closing mid-market prices are unavailable.
b. Bonds, including both nominal and real return, are valued on the basis of quoted closing mid-market prices. If quoted closing mid-market prices are not available, estimated values are calculated using discounted cash flows based on current market yields and comparable securities, as appropriate.
c. Securities sold under agreements to repurchase and securities purchased under agreements to resell are valued using discounted cash flows based on current market yields.
d. Public equities are valued at quoted closing mid-market prices. When the market for a public equity is not active, management assesses whether the quoted prices represent fair value. If not, management adjusts the quoted prices or estimates the fair value by using appropriate techniques including valuation models.
e. Real estate, private equities, infrastructure, and natural resources are valued based on estimated fair values determined by using appropriate techniques and best estimates by either management, appraisers, or both. Where external appraisers are engaged to perform the valuation, management ensures the appraisers are independent and compares the assumptions used by the appraisers with management's expectations based on current market conditions and industry practice to ensure the valuation captures the business and economic conditions specific to the investment.

   At least 70% of the value of the rental property portfolio covering all product types and geographic regions is independently appraised annually. Properties with a value of over $250 million will be valued independently every year.

   Private equity funds are recorded at fair value based on net asset values obtained from each of the funds' administrators. These net asset values are reviewed by management.
f. Derivative financial instruments are recorded at fair value using market prices where available. Where quoted market values are not readily available, appropriate alternative valuation techniques are used to determine fair value. In determining fair value, consideration is also given to the credit risk of the counterparty through the calculation of a credit valuation adjustment.
g. Alternative investments, comprised of hedge funds and managed futures accounts, are recorded at fair value based on net asset values obtained from each of the funds' administrators. These net asset values are reviewed by management.

The Plan uses a number of valuation techniques to determine the fair value of investments for which observable prices in active markets for identical investments are not available. These techniques include: valuation methodologies based on observable prices for similar investments; present-value approaches where future cash flows generated by the investment are estimated and then discounted using a risk-adjusted interest rate; and option-pricing models. The principal inputs to these valuation techniques are listed below. Values between and beyond available data points may be obtained by interpolation and extrapolation.

- Bond prices – quoted prices are generally available for government bonds, certain corporate bonds and some other debt-related products.
- Credit spreads – where available, credit spreads are derived from prices of credit default swaps or other credit-based instruments, such as debt securities. For others, credit spreads are obtained from pricing services.
- Interest rates – principally derived from benchmark interest rates such as quoted interest rates from central banks and in swap, bond and futures markets. Benchmark interest rates are considered when determining discount rates used in the present-value approaches.
- Foreign currency exchange rates – there are observable markets, both spot and forward, and in futures in all major currencies.
- Public equity and equity index prices – quoted prices are generally readily available for equity shares listed on the stock exchanges and for indices on such shares.
- Commodity prices – many commodities are actively traded in spot, forward and futures markets.
- Price volatilities and correlations – volatility is a measure of the tendency of a specific price to change over time. Correlation measures the degree to which two or more prices or other variables are observed to have moved together historically. Volatility is an input in valuing options and certain products such as derivatives with more than one underlying variable that is correlation-dependent. Volatility and correlation values are either obtained from broker quotations, from pricing services, or are derived from quoted option prices.
- Forecasts on operating cash flows of real estate, private equities, infrastructure, and natural resources – forecasts include assumptions on revenue, revenue growth, expenses, capital expenditures, and capital structure. They are generally provided by either management of the companies in which the Plan invests or external managers. Additional assumptions from external parties, for example, external appraisers, may also be used in the forecast.

The Plan refines and modifies its valuation techniques as markets and products develop and the pricing for individual products becomes more transparent.

While the Plan believes its valuation techniques are appropriate and consistent with other market participants, the use of different techniques or assumptions could result in different estimates of fair value at the balance sheet date. Management has assessed and determined that using possible alternative assumptions will not result in significantly different fair values.

Fair value hierarchy

Investment assets and investment-related liabilities are classified and disclosed in one of the following categories reflecting the significance of inputs used in making the fair value measurement:

- Level 1 – quoted prices (unadjusted) in active markets for identical assets or liabilities;
- Level 2 – inputs other than quoted prices included within Level 1 that are observable for the assets or liabilities, either directly or indirectly; and
- Level 3 – unobservable inputs.

If different levels of inputs are used to measure the fair value of an investment, the classification within the hierarchy is based on the lowest level input that is significant to the fair value measurement.

Trade-date reporting

Purchases and sales of investments and derivative contracts are recorded as of the trade date.

Net investment income

Dividend income is recognized based on the ex-dividend date, and interest income and real estate income are recognized on the accrual basis as earned. Net investment income also includes both realized and unrealized gains and losses. Unrealized gains and losses are recognized only when the fair value of the investment is based on a quoted market price in an active market or a valuation using appropriate valuation techniques is performed and approved by management.

Transaction costs

Transaction costs are incremental costs directly attributable to the acquisition, issue or disposal of a financial asset or financial liability. Transaction costs are expensed as incurred. Any transaction amounts received by the Plan that are directly attributable to the acquisition of an investment are netted against transaction costs paid.

Management fees

Management and performance fees for external investment managers and administrators are expensed as incurred when directly invoiced or information is otherwise available from capital notices or other manager communications. Fees related to other externally managed investments are offset against investment income.

(d) Foreign currency translation

Assets and liabilities denominated in foreign currencies are translated into Canadian dollars at the exchange rates prevailing on the year-end date. Income and expenses are translated into Canadian dollars at the exchange rates prevailing on the dates of the transactions. The realized and unrealized gains and losses arising from these translations are included within net realized and unrealized gains on investments in investment income.

(e) Accrued pension benefits

The value of accrued pension benefits and changes therein during the year are based on an actuarial valuation prepared by Mercer (Canada) Limited, an independent firm of actuaries. The valuation is made annually as at August 31 and then extrapolated to year end. It uses the projected benefit method pro-rated on service and management's best estimate, as at the valuation date, of various economic and non-economic assumptions.

As described in paragraph (f) of the Description of Plan note, the inflation protection benefits for credited service earned after December 31, 2009 is conditional, depending on the Plan's funded status. For the financial statement valuation, the Plan estimates the conditional inflation protection benefits based on the indexation levels stated in the most recent funding valuation filing.

(f) Contributions

Contributions from the members, the Province and designated employers are recorded on an accrual basis. Cash received from members for credited service and cash transfers from other pension plans are recorded when received.

(g) Benefits

Benefit payments to members and others, commuted value payments and refunds to former members, and transfer payments to other plans are recorded in the period in which they are paid. Any benefit payment accruals not paid are reflected in accrued pension benefits.

(h) Premises and equipment

Premises and equipment are recorded at cost and amortized on a straight-line basis over their estimated useful lives.

(i) Use of estimates

In preparing these consolidated financial statements, management uses estimates and assumptions that primarily affect the reported values of assets and liabilities, and related income and expenses. Estimates and assumptions are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable and relevant under the circumstances. The effect of a change in an estimate or assumption is recognized in the period in which the estimate or assumption is revised. Significant estimates and assumptions are used primarily in the determination of accrued pension benefits and the fair value of investments and investment-related receivables and liabilities. Note 4 explains how estimates and assumptions are used in determining accrued pension benefits and note 1c explains how estimates and assumptions are used to derive the fair value of investments and investment-related receivables and liabilities.

(j) Contingencies

A contingent liability is a possible obligation that depends on the occurrence or non-occurrence of one or more future events not controlled by the Plan. Contingent liabilities are not recognized but the nature and extent are disclosed in the notes to the consolidated financial statements. A provision for a present obligation is recognized when a reliable estimate can be determined and the settlement of the obligation is probable.

NOTE 2.
INVESTMENTS

The Plan invests, directly or through derivatives, in fixed income, equities, natural resources and real asset investments in accordance with the Board's policy of asset diversification.

(a) Investments[1] before allocating the effect of derivative contracts

The schedule below summarizes the Plan's investments and investment-related liabilities, including net accrued interest and dividends of $527 million (2015 – $625 million), before allocating the effect of derivative contracts:

As at December 31		**2016**		2015
(Canadian $ millions)	**Fair Value**	**Cost**	Fair Value	Cost
Fixed income				
Bonds	**$ 52,355**	**$ 51,050**	$ 53,776	$ 49,376
Short-term investments	**9,521**	**9,504**	8,919	8,860
Alternative investments[2]	**11,727**	**8,862**	13,014	9,110
Canadian real-rate products	**20,381**	**14,993**	20,694	15,346
Non-Canadian real-rate products	**16,011**	**12,866**	17,061	13,934
	109,995	**97,275**	113,464	96,626
Equity				
Publicly traded				
Canadian	**2,075**	**2,053**	2,048	2,551
Non-Canadian	**27,423**	**22,081**	33,317	25,840
Non-publicly traded				
Canadian	**2,786**	**2,480**	2,533	2,505
Non-Canadian	**25,110**	**19,704**	26,555	19,249
	57,394	**46,318**	64,453	50,145
Natural resources				
Timberland	**2,442**	**1,356**	2,705	1,437
Sector investment[3]	**3,831**	**3,802**	3,547	3,745
	6,273	**5,158**	6,252	5,182
Real assets				
Real estate (note 5)	**30,923**	**19,064**	29,441	18,034
Infrastructure	**17,826**	**13,832**	15,193	10,694
	48,749	**32,896**	44,634	28,728
	222,411	**181,647**	228,803	180,681
Investment-related receivables				
Securities purchased under agreements to resell	**27,910**	**27,621**	29,465	28,419
Cash collateral deposited under securities borrowing arrangements	**1,967**	**1,967**	2,111	2,111
Cash collateral paid under credit support annexes	**121**	**121**	108	108
Derivative-related, net	**3,307**	**1,761**	2,425	486
	33,305	**31,470**	34,109	31,124
Investments	**$ 255,716**	**$ 213,117**	$ 262,912	$ 211,805

[1] For additional details, refer to the Major Investments on page 80.

[2] Comprised primarily of hedge funds and managed futures accounts.

[3] Sector investment includes oil, gas, and agricultural assets.

As at December 31	2016		2015	
(Canadian $ millions)	**Fair Value**	**Cost**	Fair Value	Cost
Investment-related liabilities				
Securities sold under agreements to repurchase	**$ (47,422)**	**$ (47,131)**	$ (60,768)	$ (59,665)
Securities sold but not yet purchased				
Fixed income	**(19,108)**	**(17,656)**	(20,509)	(16,632)
Equities	**(1,947)**	**(1,752)**	(2,125)	(1,988)
Real estate (note 5)	**(3,196)**	**(2,876)**	(4,581)	(4,178)
Commercial Paper	**(9,120)**	**(8,935)**	(3,058)	(2,985)
Cash collateral received under credit support annexes	**(163)**	**(163)**	(154)	(154)
Derivative-related, net	**(2,678)**	**(845)**	(3,471)	(724)
	(83,634)	**(79,358)**	(94,666)	(86,326)
Net investments (note 2d)	**$ 172,082**	**$ 133,759**	$ 168,246	$ 125,479

(b) Fair value hierarchy

The schedule below presents the Plan's investments and investment-related liabilities within the fair value hierarchy as outlined in note 1c:

				December 31, 2016
(Canadian $ millions)	**Level 1**	**Level 2**	**Level 3**	**Total**
Fixed income	**$ 83,706**	**$ 12,051**	**$ 14,238**	**$ 109,995**
Equity	**27,785**	**248**	**29,361**	**57,394**
Natural resources	**—**	**—**	**6,273**	**6,273**
Real assets	**3,271**	**295**	**45,183**	**48,749**
Investment-related receivables	**2,146**	**30,922**	**237**	**33,305**
Investment-related liabilities	**(21,343)**	**(60,284)**	**(2,007)**	**(83,634)**
Net investments	**$ 95,565**	**$ (16,768)**	**$ 93,285**	**$ 172,082**

				December 31, 2015
(Canadian $ millions)	Level 1	Level 2	Level 3	Total
Fixed income	$ 88,106	$ 9,327	$ 16,031	$ 113,464
Equity	33,141	716	30,596	64,453
Natural resources	—	—	6,252	6,252
Real assets	3,257	168	41,209	44,634
Investment-related receivables	2,289	31,623	197	34,109
Investment-related liabilities	(22,910)	(69,661)	(2,095)	(94,666)
Net investments	$ 103,883	$ (27,827)	$ 92,190	$ 168,246

The schedule below presents a reconciliation of investments and net investment-related receivables/(liabilities) measured at fair value using significant unobservable inputs (Level 3) during the year. Realized and unrealized gains/(losses) are included in investment income.

2016

(Canadian $ millions)	Fixed Income	Equity	Natural Resources	Real Assets	Investment-Related Receivables	Investment-Related Liabilities	Total
Balance, beginning of year	$ 16,031	$ 30,596	$ 6,252	$ 41,209	$ 197	$ (2,095)	$ 92,190
Purchases	5,228	7,294	289	7,714	6,489	6,851	33,865
Sales	(6,937)	(9,188)	(375)	(4,008)	(6,485)	(6,863)	(33,856)
Transfers in[4]	206	—	—	—	12	(77)	141
Transfers out[4]	—	—	—	—	(24)	131	107
Gains/(losses) included in investment income							
Realized	1,118	2,231	71	507	49	32	4,008
Unrealized	(1,408)	(1,572)	36	(239)	(1)	14	(3,170)
Balance, end of year	$ 14,238	$ 29,361	$ 6,273	$ 45,183	$ 237	$ (2,007)	$ 93,285

2015

(Canadian $ millions)	Fixed Income	Equity	Natural Resources	Real Assets	Investment-Related Receivables	Investment-Related Liabilities	Total
Balance, beginning of year	$ 13,816	$ 22,354	$ 2,867	$ 36,433	$ 501	$ (2,433)	$ 73,538
Purchases	4,279	8,320	4,038	4,842	2,128	2,687	26,294
Sales	(4,201)	(6,104)	(1,176)	(4,140)	(2,576)	(2,257)	(20,454)
Transfers in[4]	—	—	—	—	(4)	—	(4)
Transfers out[4]	—	—	—	—	(1)	26	25
Gains/(losses) included in investment income							
Realized	569	2,722	311	380	176	(135)	4,023
Unrealized	1,568	3,304	212	3,694	(27)	17	8,768
Balance, end of year	$ 16,031	$ 30,596	$ 6,252	$ 41,209	$ 197	$ (2,095)	$ 92,190

[4] Transfers in and transfers out of Level 3 are due to the change in the availability of observable inputs used for fair value measurement of investment assets or related liabilities. Similarly, the transfers between Level 2 and Level 1 in 2016 of $330 million (2015 - nil) are due to the change in the applicability of non-observable inputs. See note 1c Fair Value Hierarchy.

(c) Derivative contracts

Derivative contracts are financial contracts, the value of which is derived from the value of underlying assets, commodities, indices, interest rates or currency rates. Derivative contracts are transacted either in the over-the-counter (OTC) market or on regulated exchanges.

Notional amounts of derivative contracts represent the contractual amount to which a rate or price is applied for computing the cash to be paid or received. Notional amounts are the basis upon which the returns from, and the fair value of, the contracts are determined. They do not necessarily indicate the amounts of future cash flow involved or the current fair value of the derivative contracts and, therefore, do not indicate the Plan's exposure to credit or market risks. The derivative contracts become favourable (assets) or unfavourable (liabilities) as a result of fluctuations in either market rates or prices relative to their terms. The aggregate notional amounts and fair values of derivative contracts can fluctuate significantly.

Derivative contracts, transacted either in the OTC market or on regulated exchanges, include:

Swaps

Swaps are OTC contracts in which two counterparties exchange a series of cash flows based on agreed upon rates to a notional amount. The various swap agreements that the Plan enters into are as follows:

Equity and commodity swaps are contracts in which one counterparty agrees to either pay or receive from the other cash flows based on changes in the value of either an equity or commodity index, a basket of stocks or commodities, or a single stock or commodity.

Interest rate swaps are agreements where two counterparties exchange a series of payments based on different interest rates applied to a notional amount. Certain interest rate swaps traded with U.S. counterparties in the OTC market are centrally cleared at regulated clearing houses.

Currency swaps involve the exchange of fixed payments in one currency for the receipt of fixed payments in another currency.

Forwards and futures

Futures are standardized contracts traded on regulated future exchanges, whereas forward contracts are negotiated agreements that are transacted between counterparties in the OTC market. Examples of futures and forwards are described below:

Equity and commodity futures are contractual obligations to either buy or sell at a fixed value (the contracted price) of an equity or commodity index, a basket of stocks, a single stock or commodities at a predetermined future date.

Interest rate futures are contractual obligations to either buy or sell an interest rate sensitive financial instrument on a predetermined future date at a specified price.

Currency forwards and futures are contractual obligations to exchange one currency for another at a specified price or settlement at a predetermined future date.

Options

Options may be either acquired in standardized amounts on regulated exchanges or customized and acquired in the OTC market. They are contractual agreements under which the seller (writer) grants the purchaser the right, but not the obligation, either to buy (call option) or sell (put option), a security, exchange rate, interest rate, or other financial instrument or commodity at a predetermined price, at or by a specified future date. The seller (writer) of an option can also settle the contract by paying the cash settlement value of the purchaser's right. The seller (writer) receives a premium from the purchaser for this right. The various option agreements that the Plan enters into include equity and commodity options, interest rate options, and foreign currency options.

Credit derivatives

Credit derivatives are OTC contracts that transfer credit risk related to an underlying financial instrument (referenced asset) from one counterparty to another. Examples of credit derivatives include credit default swaps, total return swaps, and loan participations.

Credit default swaps provide protection against the decline in value of the referenced asset as a result of specified events such as payment default or insolvency. These swaps are similar in structure to an option whereby the purchaser pays a premium to the seller of the credit default swap in return for payment related to the deterioration in the value of the referenced asset. The referenced asset for credit default swaps is a debt instrument. Certain credit default swaps traded with U.S. counterparties in the OTC market are centrally cleared at regulated clearing houses.

Total return swaps are contracts in which one counterparty agrees to pay or receive from the other cash flows based on changes in the value of the referenced asset.

Other derivative products

The Plan also transacts in other derivative products including statistic swaps and dividend swaps in the OTC market. An investor may trade the statistic swaps with the objective of adding value or hedging for risks associated with the magnitude of movement, i.e., volatility, variance, correlation, covariance of some underlying products, such as exchange rates, or stock indexes. Dividend swaps are OTC contracts where an investor agrees to match all dividends paid out by an underlying stock or index over a specified time period. In return, the dividend payer receives a fixed amount at expiry called the dividend swap rate.

The following schedule summarizes the notional amounts and fair value of the Plan's derivative contracts held as at December 31:

(Canadian $ millions)		2016 Notional	2016 Fair Value	2015 Notional	2015 Fair Value
Equity and commodity derivatives					
Swaps		$ 21,454	$ 402	$ 32,893	$ (666)
Futures		5,572	14	3,581	11
Options: Listed	– purchased	350	21	190	3
	– written	669	(28)	145	(7)
OTC	– purchased	14,114	730	1,125	83
	– written	3,125	(195)	1,464	(69)
		45,284	944	39,398	(645)
Interest rate derivatives					
Swaps		90,105	29	93,721	(42)
Futures		103,444	(10)	218,564	—
Options: Listed	– purchased	11,318	5	20,550	8
	– written	10,673	(6)	9,730	(9)
OTC	– purchased	30,398	115	13,942	39
	– written	42,699	(110)	28,302	(40)
		288,637	23	384,809	(44)
Currency derivatives					
Swaps		11,215	(70)	6,653	(162)
Forwards[5]		70,956	(119)	55,688	(66)
Options: OTC	– purchased	8,299	121	6,277	104
	– written	7,839	(111)	6,086	(94)
		98,309	(179)	74,704	(218)
Credit derivatives					
Credit default	– purchased	16,099	(286)	15,158	(47)
	– written	19,793	140	13,389	(78)
		35,892	(146)	28,547	(125)
Other derivatives					
Statistic swaps		5,061	(19)	5,304	(59)
Dividend swaps		254	(21)	199	(3)
		5,315	(40)	5,503	(62)
		473,437	602	532,961	(1,094)
Net cash collateral paid under derivative contracts		—	27	—	48
Notional and net fair value of derivative contracts		$ 473,437	$ 629	$ 532,961	$ (1,046)

[5] Excludes currency forwards related to Real Estate assets as disclosed in note 5.

The net fair value of derivative contracts as at December 31 in the previous table is represented by:

(Canadian $ millions)	2016	2015
Derivative-related receivables	$ 2,678	$ 2,388
Cash collateral paid under derivative contracts	31	52
Derivative-related liabilities	(2,076)	(3,482)
Cash collateral received under derivative contracts	(4)	(4)
	$ 629	$ (1,046)

(d) Investment asset mix

Direct investments, derivative contracts, and investment-related receivables and liabilities are classified by asset mix category based on the intent of the investment strategies of the underlying portfolios of the Plan. The Plan's net investments are summarized in Canadian dollars below as at December 31:

	2016		2015	
	Effective Net Investments at Fair Value ($ millions)	**Asset Mix %**	Effective Net Investments at Fair Value ($ millions)	Asset Mix %
Equity				
Canadian	**$ 4,275**	**2%**	$ 3,538	2%
Non-Canadian	**61,679**	**36**	74,003	44
	65,954	**38**	77,541	46
Fixed income				
Bonds	**43,529**	**25**	37,974	23
Real-rate products	**31,725**	**19**	31,131	18
	75,254	**44**	69,105	41
Natural resources				
Commodities	**4,184**	**3**	3,996	2
Timberland	**2,442**	**1**	2,705	2
Sector investment[6]	**3,831**	**2**	3,547	2
	10,457	**6**	10,248	6
Real assets				
Real estate	**26,470**	**16**	24,860	15
Infrastructure	**17,826**	**10**	15,661	9
	44,296	**26**	40,521	24
Absolute return strategies				
Internal absolute return strategies	**4,864**	**3**	8,291	5
Alternative investments	**8,414**	**5**	9,468	6
	13,278	**8**	17,759	11
Overlay[7]	**512**	**—**	—	—
Money market	**(37,669)**	**(22)**	(46,928)	(28)
Net investments	**$ 172,082**	**100%**	$ 168,246	100%

[6]Sector investment includes oil, gas, and agricultural assets.

[7] Overlay includes strategies to overweight or underweight certain index and foreign currency positions.

(e) Risk management

Objectives

The Plan’s primary long-term risk is that the Plan’s assets will fall short of its liabilities (i.e., benefits owed to members). Therefore, the objective of investment risk management is to achieve a diversifying of risks and returns in a fashion that minimizes the likelihood of an overall reduction in total fund value and maximizes the opportunity for gains over the entire portfolio. This is achieved through asset diversification so that the market and credit exposure to any single issuer and to any single component of the capital markets is reduced to an acceptable level.

The Plan also manages its liquidity risk so that there is sufficient liquidity to enable the Plan to meet all of its future obligations as they become payable, which includes meeting short-term marked-to-market payments resulting from the Plan’s derivative exposure and to give the Plan the ability to adjust the asset mix in response to the changes in the market conditions.

Policies

To apply risk management to investments in a consistent manner, the Plan has a number of policies, for example:

- Statement of Investment Policies and Procedures – The statement, posted on the Plan’s website addresses the manner in which the fund shall be invested. The statement is subject to the Board's review at least annually; the last review date was June 16, 2016. No significant changes were made to the statement at that time. The long-term rate of return goal is set at the actuarial assumed discount rate contained in the funding valuation using the going-concern basis. The Plan's investments are selected and held in accordance with the criteria and limitations set forth in the statement and in accordance with all relevant legislation. The statement includes a long-term asset-mix policy:

Exposure	Minimum	Goal	Maximum
Equities	37%	42%	47%
Fixed income	37%	50%	58%
Natural resources	3%	6%	11%
Real assets	20%	25%	30%
Money market[8]	(26)%	(23)%	(15)%
		100%	

[8] The money market asset class provides funding for investments in other asset classes.

- Board Investment Policy – This policy applies to the total-fund and aggregate asset classes. The policy addresses the risks that are relevant and material at the total-fund level. The policy specifies asset mix and risk budget allocation and lists investment constraints such as maximum exposures permitted for a single issuer, liquidity requirements, and currency management. The Board approves this policy and reviews it regularly.
- Investment Division Policy – This policy addresses the manner in which the Investment Division is organized for the purpose of undertaking the investment and risk management of the fund and for day-to-day operations management. This policy specifies the oversight role and activities of the senior committees within the Investment Division.
- Portfolio policies for each investment department – These policies are developed to apply to the individual portfolios within each asset class managed by the Investment Division. Portfolio policies include the departments’ investment strategies, operating procedures, trading limits and approval requirements, risk factors and a description of how the risks will be managed and reporting requirements for each portfolio manager, particularly relating to reporting deviations from the approved portfolio policy. All portfolio policies are reviewed annually and approved by the Executive Vice-President of the Investment Division and the Senior Vice-President responsible for the department.
- Trade Authorization and Execution Operation Policy – This policy provides guidance on trading with authorized counterparties.
- Investment Division Counterparty Credit Policy – This policy applies to investments with credit risk exposure that arises from entering into certain counterparty agreements. The policy provides constraints on counterparty credit exposure and procedures for obtaining authorization to trade with a new counterparty.
- Pre-Investment Approval Policy – This policy formalizes the procedures to ensure the data needed for trade capture, pricing, risk management, and accounting is accurate, complete, and can be entered into the Plan’s systems of record on a timely basis prior to commencement of trading.

Processes

The Plan uses risk budgeting to allocate risk across the investment asset classes. The risk budget is presented to the Board annually for review and approval. Each investment department is responsible for managing the investment risks associated with the investments they manage within the risk budget allocated to them. Each department is subject to compliance with the Statement of Investment Policies and Procedures, the Board Investment Policy (which includes the risk budget allocated to them), Investment Division Policy, Trade Authorization and Execution Operation Policy, Pre-Investment Approval Policy and the applicable portfolio policies. In addition, the Capital Markets department is responsible for maintaining the liquidity positions in accordance with the Plan's policies on liquidity. The Finance Division independently measures the investment risk exposure and the liquidity position of the Plan and provides the information to the Investment Division and the Investment Committee of the Board.

Each investment department has an investment committee, or an equivalent, which meets regularly to assess the investment risks associated with the portfolios it manages and determines action plans, if required. Individual managers in each investment department receive limited authority to invest from the Board by sub-delegation from senior management. Trading limits and approval requirements are set out in the portfolio policies for the department. For investments not traded on exchanges, such as alternative investments and private equity investments, the investment departments conduct due diligence before acquisition and use it as a tool to monitor the investments after acquisition. The objective is to obtain as much transparency as possible for the departments to assess the risk exposure arising from these private and alternative investments.

The senior representatives from each investment department form the Investment Committee Total Fund (IC–TF) which focuses on managing investment risks at a total-fund level. The Chief Financial Officer attends all meetings of the committee as an observer. This committee brings together the experience, investment and operational business judgment required for assessing and managing market, credit and liquidity risks on a regular basis. It monitors the currency positions, interest rate risk and liquidity risk at the total-fund level. The committee meets every other week, or more frequently as required. Reporting to the IC–TF are the Investment Division Counterparty Credit Committee, the Investment Division Liquidity Committee, the Emerging Markets Committee, and the Responsible Investment Committee.

The Enterprise Risk Management Committee oversees investment and non-investment risks faced by the Plan. The committee is chaired by the Chief Executive Officer and includes senior representatives from all divisions. The Enterprise Risk Management Committee meets regularly and reports to the Board semi-annually and more frequently as necessary.

(f) Credit risk

The Plan is exposed to the risk that a counterparty defaults or becomes insolvent. Credit risk is the risk of loss associated with a counterparty's inability to fulfill its payment obligations. Credit risk may arise directly from an obligor, an issuer of securities, or indirectly from a guarantor of a credit obligation.

Credit risk management

The Plan actively manages its credit exposures. When over exposures are detected – either in individual exposures or in groups of exposures – the Plan takes action to mitigate the risks. Such actions may include reducing the exposures and using credit derivatives.

Except for debt issued or guaranteed without significant conditions by the Government of Canada, by the government of a province or territory of Canada (with an investment grade credit rating), or by the Government of the United States of America, the Plan's total investment in securities of a single issuer across all asset classes shall not exceed 3% of the market value of the total fund without the approval of the Board. Debt exposure to a single issuer or with a single guarantor shall not exceed 2% of the market value of the Plan without approval of the Board. Further, not more than 10% of the market value of the Plan may be made up of non-investment grade or unrated investments.

The Plan enters into agreements with counterparties to limit its exposure to credit losses. An International Swaps and Derivatives Association (ISDA) Master Agreement is executed with most OTC derivative counterparties, which allows both parties to settle obligations on a net basis when termination or other predetermined events occur. The Plan also negotiates collateral agreements known as credit support annexes (CSAs) with key counterparties to further mitigate counterparty credit risk. A CSA gives the Plan the power to realize collateral posted by counterparties in the event of a default by such counterparties.

Since collateral is an important mitigant of counterparty credit risk, the Plan routinely obtains collateral from its counterparties, not only under OTC derivative contracts but also under reverse repurchase agreements. Note 2i provides further details on collateral pledged and received.

The Plan has a credit risk assessment process to approve prospective new counterparties and to monitor authorized counterparties for derivative contracts, repurchase and reverse repurchase agreements, securities borrowing agreements, prime broker relationships and futures and options clearing. The Plan deals primarily with counterparties that have an investment grade credit rating. Policies are in place to limit the maximum exposures to any individual counterparty for derivative contracts or repurchase and reverse repurchase agreements, prime broker relationships and futures and options clearing.

Maximum exposure to credit risk before collateral held

The Plan assumes credit risk exposure through debt investments and amounts receivable from the Province of Ontario and brokers. The maximum exposure to credit risk related to these financial instruments is their fair value as presented in the consolidated statements of financial position and note 2a. The Plan is also exposed to credit risk of counterparties to its OTC derivative transactions. Counterparty credit risk exposure for OTC derivatives is measured as the net positive fair value of the contractual obligations with the counterparties.

To monitor credit risk, the Plan produces, on a quarterly basis, a concentration report by credit rating of all credit sensitive financial securities.

Counterparties are assigned a credit rating as determined by the Plan's internal credit risk management function. Counterparty credit ratings are also compared to their external ratings as provided by recognized credit rating agencies on a daily basis.

The credit risk exposure of debt investments and OTC derivatives, by credit rating category, without taking account of any collateral held or other credit enhancements as at December 31 is as follows:

2016

Credit rating (Canadian $ millions)	**Bonds and Short-Term Investments**	**Real-Rate Products**	**Securities Purchased under Agreements to Resell**	**Loans and Private Debt**	**OTC Derivatives**
AAA/R-1 (high)	**$ 41,168**	**$ 32,697**	**$ —**	**$ —**	**$ —**
AA/R-1 (mid)	**2,502**	**—**	**5,990**	**—**	**83**
A/R-1 (low)	**9,376**	**3,482**	**21,006**	**—**	**891**
BBB/R-2	**5,259**	**—**	**—**	**—**	**—**
Below BBB/R-2	**2,123**	**—**	**—**	**—**	**—**
Unrated[9]	**1,448**	**213**	**914**	**12,243**	**—**
	$ 61,876	**$ 36,392**	**$ 27,910**	**$ 12,243**	**$ 974**

2015

Credit rating (Canadian $ millions)	Bonds and Short-Term Investments	Real-Rate Products	Securities Purchased under Agreements to Resell	Loans and Private Debt	OTC Derivatives
AAA/R-1 (high)	$ 41,555	$ 33,533	$ —	$ —	$ —
AA/R-1 (mid)	1,872	101	913	—	69
A/R-1 (low)	10,542	3,879	26,570	—	94
BBB/R-2	3,096	12	—	—	5
Below BBB/R-2	2,813	—	—	—	—
Unrated[9]	2,817	230	1,982	9,818	—
	$ 62,695	$ 37,755	$ 29,465	$ 9,818	$ 168

[9] Unrated comprises securities that are either privately held, managed externally, or not rated by the rating agencies.

The Plan is also exposed to credit risk through off-balance sheet arrangements. For off-balance sheet guarantees, the maximum exposure to credit risk is the maximum amount that the Plan would have to pay if the guarantees were to be called upon. For loan commitments, the maximum exposure is the committed amount under the agreements. For credit derivatives, the maximum exposure is the notional amount of written credit derivatives as presented in note 2c.

As at December 31 (Canadian $ millions)		**2016**		2015
Guarantees	**$**	**314**	$	574
Loan commitments		**133**		385
Notional amount of written credit derivatives		**19,793**		13,389
Total off balance sheet credit risk exposure	**$**	**20,240**	$	14,348

While the Plan's maximum exposure to credit risk is the carrying value of the assets, or, in the case of off-balance sheet items, the amount guaranteed or committed, in most cases the likely exposure is far less due to collateral, credit enhancements (e.g., guarantees in favour of the Plan) and other actions taken to mitigate the Plan's exposure, as described previously.

Credit risk concentrations

As at December 31, 2016, the Plan has a significant concentration of credit risk with the Government of Canada, the Province of Ontario and the U.S Treasury. This concentration relates primarily to holding Government of Canada issued securities of $51.0 billion (2015 – $47.0 billion), U.S. Treasury issued securities of $0.2 billion (2015 – $5.9 billion), Province of Ontario bonds of $5.0 billion (2015 – $5.4 billion), receivable from the Province of Ontario (see note 3) of $3.3 billion (2015 – $3.2 billion) and future provincial funding requirements of the Plan.

(g) Market risk

Market risk is the risk of loss that results from fluctuations in equity and commodity prices, interest and foreign exchange rates, and credit spreads. The Plan is exposed to market risk from its investing activities. The level of market risk to which the Plan is exposed varies depending on market conditions, expectations of future price movements, the occurrence of certain catastrophic events (e.g., hurricanes and earthquakes) affecting the prices of insurance linked securities, expectations of future yield movements and the composition of the asset mix.

Market risk management

The Plan manages market risk primarily through diversifying the investments across industry sectors, investment strategies and on a global basis. A variety of derivative contracts are also utilized to manage the Plan's market risk exposures.

Market and credit risk measurement

The Plan uses a statistical Value-at-Risk (VaR)-type approach, the expected tail loss (ETL) methodology, to measure investment risk comprising of market and credit risk over a one-year horizon at a 99% confidence level. The ETL methodology captures more of the effect of extreme loss events than VaR for the same confidence level as it is the average of all the losses in the tail.

Total Asset Risk is prepared using the ETL methodology. This risk captures the investment risk exposure by asset class reflecting the risk of potential losses in net assets due to both market and credit risk factors. Statistically, the Plan would expect to see losses approximate to the risk exposure on the report only 1% of the time over a one year period, subject to certain assumptions and limitations discussed below.

The ETL methodology is a statistical approach that accounts for market volatility and credit risk as well as risk diversification achieved by investing in various products and markets. Risks are measured consistently across all markets and products and can be aggregated to arrive at a single risk number. The one-year 99% ETL number used by the Plan is generated using a historical simulation and bootstrap sampling approach that reflects the expected annual return on the portfolio in the worst 1% of the cases. When sufficient historical data is not available, proxies and statistical methods are used to complete the data series.

Changes to risk measurement

During 2016 we transitioned to a new system to calculate Total Asset Risk. The new system uses the most recent 10 years of market data, compared to the previous system which used 29 years of history. The reduced historical period means a higher proportion of actual market data is used to calculate Total Asset Risk, with use of fewer proxies and statistical methods.

As of year end 2015, Total Asset Risk was measured at $29.0 billion in the previous system, compared to $41.5 billion in the new system. The difference between these measurements is due to changes between the two systems resulting from refinement of our risk measurement methodology.

The shortened historical window contributes over half of the increase in measured Total Asset Risk. This is due to two reasons. The first is that the market events of 2007-2009 comprise a larger proportion of the historical market data used. As a consequence, certain assets which are most affected by such market events, such as equities, corporate bonds, credit derivatives, hedge funds and commodities have a higher measured risk. The second is that low interest rates have been more prevalent over the past 10 years, increasing the measured risk related to the fund experiencing very low interest rates.

Most of the remaining increase in Total Asset Risk is due to changes in modeling assumptions. For example, for many of our private equity holdings we have introduced a leverage adjustment to reflect that the risk of a loss increases as a company's leverage increases. In addition, for our fixed income investments we no longer incorporate the positive impact of yield in our measured risk, which is more consistent with how risk is traditionally measured.

Measurement limitations

There are limitations to the ETL methodology in use. For example, historical data may not provide the best estimate of future changes. It may fail to capture the correlation in asset returns in extreme adverse market movements which have not occurred in the historical window. The sampling approach and long historical window, however, mitigate this limitation to some extent by enabling the generation of a set of scenarios that include extreme adverse events. Another limitation is that the Plan computes the risk relative to asset positions at the close of the business day. Positions may change substantially during the course of a trading day. These limitations and the nature of the ETL measure mean that the Plan's losses may exceed the risk exposure amounts indicated in any risk reports.

The Plan continuously monitors and enhances the risk calculation methodology, striving for better estimation of risk exposure. A number of initiatives were completed in the past year that significantly improved the accuracy of calculated risk measures. Existing risk methodologies were modified to incorporate more accurate risk models and more reliable risk data.

The table below shows the year over year change in Total Asset Risk ETL of the Plan as at December 31 based on our new risk measurement system.

(Canadian $ billions)[10]	**2016**	2015
Equity		
Canadian	**$ 2.0**	$ 2.5
Non-Canadian	**22.5**	25.5
Fixed income		
Bonds	**4.5**	6.0
Real-rate products	**6.5**	6.5
Natural Resources		
Commodities	**2.0**	2.0
Timberland	**0.5**	0.5
Sector investment[11]	**2.0**	1.5
Real assets		
Real estate	**4.0**	4.0
Infrastructure	**3.0**	3.0
Absolute return strategies	**2.0**	3.5
Money market	**6.5**	8.5
Total Asset Risk ETL Exposure[12]	**$ 37.5**	$ 41.5

[10] Rounded to the nearest $0.5 billion.

[11] Sector investment includes oil, gas, and agricultural assets.

[12] Total Asset Risk ETL Exposure does not equal the sum of ETL exposure for each asset class because diversification reduces total risk exposure.

Interest rate risk

Interest rate risk refers to the effect on the market value of the Plan's assets and liabilities due to fluctuations in interest rates. The value of the Plan's assets is affected by short-term changes in nominal and real interest rates. Pension liabilities are exposed to fluctuations in long-term interest rates as well as expectations for salary escalation.

The Plan manages the interest rate risk by using interest rate derivatives as detailed in note 2c to the consolidated financial statements. After giving effect to the derivative contracts and investment-related receivables and liabilities discussed in note 2c, a 1% increase in nominal interest rates would result in a decline in the value of the Plan's investments in fixed-income securities of 7% or $2.9 billion (2015 – 7% or $2.7 billion). Similarly, a 1% increase in real interest rates would result in a decline in the value of the Plan's investments in real-rate products of 16% or $4.8 billion (2015 – 14% or $5.3 billion).

As at December 31, 2016, holding the inflation and salary escalation assumptions constant, a 1% decrease in the assumed long-term real rates of return would result in an increase in the pension liabilities of approximately 22% or $40.8 billion (2015 – 21% or $36.0 billion).

Foreign currency risk

Foreign currency exposure arises from the Plan's holdings of foreign currency-denominated investments and related derivative contracts.

As at December 31, the Plan had investments exposed to foreign currency. In Canadian dollars this exposure is as follows:

(Canadian $ millions)	**2016**	2015
Currency	**Net Exposure**	Net Exposure
United States Dollar	**$ 49,553**	$ 52,564
Euro	**7,774**	9,238
British Pound Sterling	**4,505**	10,305
Japenese Yen	**3,275**	4,625
Chilean Peso	**3,108**	2,744
Brazilian Real	**2,673**	1,665
Australian Dollar	**1,944**	2,156
South Korean Won	**1,343**	1,867
Chinese Renminbi	**1,307**	3,785
Danish Krone	**1,175**	1,718
Other	**7,450**	9,419
	$ 84,107	$ 100,086

As at December 31, with all other variables and underlying values held constant, a 5% increase/decrease in the value of the Canadian dollar against major foreign currencies would result in an approximate decrease/increase in the value of net investments as follows:

(Canadian $ millions)	**2016**	2015
Currency	**Change in Net Investment Value**	Change in Net Investment Value
United States Dollar	**$ 2,478**	$ 2,628
Euro	**389**	462
British Pound Sterling	**225**	515
Japanese Yen	**164**	231
Other	**950**	1,168
	$ 4,206	$ 5,004

(h) Liquidity risk

Liquidity risk refers to the risk that the Plan does not have sufficient cash to meet its current payment liabilities and acquire investments in a timely and cost-effective manner. Liquidity risk is inherent in the Plan's operations and can be impacted by a range of situation specific and market-wide events including, but not limited to, credit events and significant movements in the market.

Liquidity risk management

The liquidity position of the Plan is analyzed daily to ensure the Plan maintains at least 1.7% of its assets in unencumbered Canadian treasury bills. The Plan also manages its liquidity by holding additional unencumbered Government of Canada securities (bonds, treasury bills and real-rate bonds) and U.S. Government securities that are available for repurchase agreements so that the Plan is able to withstand the liquidity effects of a market stress event and pay its contractual cash flows and projected cash requirements over a one-year horizon with a 99% probability. The Plan's liquidity position is periodically tested by simulations of major events such as significant movements in the market.

Liquid assets

The Plan maintains a portfolio of highly marketable assets including Canadian and U.S. government bonds that can be sold or funded on a secured basis as protection against any unforeseen interruption to cash flow. The fair value of the Canadian and U.S. government bonds is $51,208 million as at December 31, 2016 (2015 – $52,991 million). The Plan also has a net position of publicly traded equities of $27,551 million (2015 – $33,240 million) which are listed on major recognized stock exchanges. These securities are readily realizable and convertible to cash.

Contractual maturity

The Plan's liabilities include accrued pension benefits, investment-related liabilities, due to brokers, accounts payable and accrued liabilities. Due to brokers, accounts payable and accrued liabilities are all due within one year. As the Plan may settle securities sold but not yet purchased, cash collateral received under credit support annexes and derivatives at fair value before contractual maturity, they are considered to mature within one year.

The Plan's investment-related liabilities by maturity as at December 31 are as follows:

(Canadian $ millions)				2016
	Within One Year	**One to Five Years**	**Over Five Years**	**Total**
Securities sold under agreements to repurchase	**$ (39,736)**	**$ (7,686)**	**$ —**	**$ (47,422)**
Securities sold but not yet purchased				
Fixed income	**(19,108)**	**—**	**—**	**(19,108)**
Equities	**(1,947)**	**—**	**—**	**(1,947)**
Real estate	**(920)**	**(1,929)**	**(347)**	**(3,196)**
Commercial Paper	**(9,120)**	**—**	**—**	**(9,120)**
Cash collateral received under credit support annexes	**(163)**	**—**	**—**	**(163)**
Derivative-related, net	**(2,678)**	**—**	**—**	**(2,678)**
	$ (73,672)	**$ (9,615)**	**$ (347)**	**$ (83,634)**

(Canadian $ millions)				2015
	Within One Year	One to Five Years	Over Five Years	Total
Securities sold under agreements to repurchase	$ (53,477)	$ (7,291)	$ —	$ (60,768)
Securities sold but not yet purchased				
Fixed income	(20,509)	—	—	(20,509)
Equities	(2,125)	—	—	(2,125)
Real estate	(2,225)	(1,351)	(1,005)	(4,581)
Commercial Paper	(3,058)	—	—	(3,058)
Cash collateral received under credit support annexes	(154)	—	—	(154)
Derivative-related, net	(3,471)	—	—	(3,471)
	$ (85,019)	$ (8,642)	$ (1,005)	$ (94,666)

(i) Collateral Pledged and Received

The Plan pledges and receives cash and security collateral in the ordinary course of managing net investments. Security collateral consists primarily of Canadian and U.S. government securities. Generally, additional collateral is provided if the value of the securities falls below a predetermined level. The securities transferred are recognized as assets when the Plan retains substantially all risks and rewards, including credit risk, settlement risk and market risk. The Plan is not allowed to either pledge the same securities with other financial institutions or to sell them to another entity unless the Plan substitutes such securities with other eligible securities. The Plan holds collateral received as long as the Plan is not a defaulting party or an affected party in connection with a specified condition listed on the contractual agreements and there is no early termination of the contractual agreement. The Plan is permitted to either sell or repledge the collateral in the absence of default by the owner of the collateral. The fair value of collateral sold or repledged as at December 31, 2016 is $20 million (2015 - $ nil).

The Plan engages in securities borrowing transactions and pledges associated collateral. The Plan does not recognize any securities borrowed as its investment assets because the risks and rewards of the borrowed securities remain with the lenders.

The fair value of collateral pledged and received, as well as the securities purchased under agreements to resell and sold under agreements to repurchase and securities borrowed as at December 31 are as follows:

(Canadian $ millions)		2016		2015
Securities purchased under agreements to resell and sold under agreements to repurchase				
Securities purchased under agreements to resell	**$**	**27,910**	$	29,465
Collateral held		**27,749**		29,767
Securities sold under agreements to repurchase		**47,422**		60,768
Collateral pledged		**47,438**		64,250
Securities borrowing				
Securities borrowed		**4,979**		4,545
Collateral pledged[13]		**5,382**		4,936
Derivative-related				
Collateral received[14]		**1,003**		230
Collateral pledged[15]		**1,175**		1,584

[13] Includes cash collateral of $1,967 (2015 - $2,111)

[14] Includes cash collateral of $163 (2015 - $154)

[15] Includes cash collateral of $121 (2015 - $108)

(j) Offsetting financial assets and financial liabilities

The Plan enters into agreements with counterparties such as ISDA Master Agreements and Global Master Repurchase Agreements (GMRA's) in order to mitigate its exposure to credit losses (see note 2f). These agreements provide rights to allow the parties to settle obligations on a net basis when certain predetermined events occur. As these rights of offset are conditional, the related amounts are not netted in the Consolidated Statements of Financial Position.

The impact of these arrangements as at December 31 is presented in the following table:

(Canadian $ millions)								2016
		Gross amount presented in note 2a		**Amounts subject to netting agreements**		**Securities and cash collateral[16]**		**Net Exposure**
Financial assets								
Securities purchased under agreements to resell	**$**	**27,910**	**$**	**(18,753)**	**$**	**(9,154)**	**$**	**3**
Derivative-related receivables		**3,307**		**(1,699)**		**(927)**		**681**
	$	**31,217**	**$**	**(20,452)**	**$**	**(10,081)**	**$**	**684**
Financial liabilities								
Securities sold under agreements to repurchase	**$**	**(47,422)**	**$**	**18,753**	**$**	**28,666**	**$**	**(3)**
Derivative-related liabilities		**(2,678)**		**1,699**		**967**		**(12)**
	$	**(50,100)**	**$**	**20,452**	**$**	**29,633**	**$**	**(15)**

(Canadian $ millions)								2015
		Gross amount presented in note 2a		Amounts subject to netting agreements		Securities and cash collateral[16]		Net Exposure
Financial assets								
Securities purchased under agreements to resell	$	29,465	$	(27,931)	$	(1,529)	$	5
Derivative-related receivables		2,425		(1,905)		(161)		359
	$	31,890	$	(29,836)	$	(1,690)	$	364
Financial liabilities								
Securities sold under agreements to repurchase	$	(60,768)	$	27,931	$	32,824	$	(13)
Derivative-related liabilities		(3,471)		1,905		1,380		(186)
	$	(64,239)	$	29,836	$	34,204	$	(199)

[16] Securities and cash collateral exclude over-collateralization and collateral in transit. See note 2i for the total amount of collateral.

NOTE 3.
RECEIVABLE FROM THE PROVINCE OF ONTARIO

The receivable from the Province consists of required matching contributions and interest thereon.

As at December 31 (Canadian $ millions)		2016		2015
Contributions receivable	**$**	**3,224**	$	3,157
Accrued interest receivable		**49**		51
	$	**3,273**	$	3,208

The receivable as at December 31, 2016, from the Province of Ontario consists of $1,635 million, which was received in January 2017, and an estimated $1,638 million to be received with interest in January 2018. The receivable as at December 31, 2015, from the Province consisted of $1,598 million, which was received in January 2016, and an initial estimate of $1,610 million to be received in January 2017. The difference between the initial estimates and the actual amount received was due to interest.

NOTE 4.
ACCRUED PENSION BENEFITS

(a) Actuarial assumptions

The actuarial assumptions used in determining the value of accrued pension benefits of $189,397 million (2015 – $173,266 million) reflect management's best estimate of future economic events and involve both economic and non-economic assumptions. The non-economic assumptions include considerations such as mortality as well as withdrawal and retirement rates. The primary economic assumptions include the discount rate, the salary escalation rate and the inflation rate. The discount rate is based on market rates, as at the valuation date, of bonds issued by the Province of Ontario, which have characteristics similar to the Plan's liabilities. The discount rate was determined by applying a weighted average discount rate that reflects the estimated timing and amount of benefit payments. The inflation rate is the geometric difference between the yield on Government of Canada long-term nominal bonds and Government of Canada real-return bonds. The salary escalation rate incorporates the inflation rate assumption and long-term expectation of growth in real wages.

A summary of the primary economic assumptions is as follows:

As at December 31	**2016**	2015
Discount rate	**3.25%**	3.25%
Salary escalation rate	**2.80%**	2.50%
Inflation rate	**1.80%**	1.50%
Real rate[1]	**1.40%**	1.70%

[1] Real rates shown as the geometric difference between the discount rate and the inflation rate.

The primary economic assumptions were changed as a result of changes in capital markets during 2016. The changes in economic assumptions resulted in a net increase in the value of accrued pension benefits of $9,281 million (2015 – $5,003 million decrease inclusive of the impact of the salary agreements reached with the Affiliates of Ontario Teachers' Federation in 2015 noted below).

The primary economic assumptions for 2015 incorporated the agreement between the Province of Ontario and the Affiliates of Ontario Teachers' Federation providing for a 1% increase in salaries on September 1, 2016 plus an additional increase of 0.5% on the 98th day of the 2016 school year. The agreement also provided for a lump sum payment on September 1, 2015 of 1% of earned wages to all members covered by the collective agreement. This lump sum payment is included in members' pensionable earnings.

There were no material changes adopted in 2016 to the non-economic assumptions. However, there was a small refinement to the assumed retirement age for inactive members. The non-economic assumptions were updated in 2015 to reflect recent experience of Plan members related to retirement, termination of plan membership and increases in salaries related to experience. The change in non-economic assumptions increased the accrued pension benefits by $113 million (2015 - $1,465 million). The changes in economic and non-economic assumptions resulted in a net increase in the value of accrued pension benefits of $9,394 million (2015 - $3,538 million decrease).

(b) Plan provisions

Credited service earned after December 31, 2009 is subject to conditional inflation protection as described in paragraph (f) of the Description of Plan note. The inflation protection benefits vary between 50% and 100% of the change in the Consumer Price Index (CPI) for credited service earned between January 1, 2010, and December 31, 2013, and vary between 0% and 100% of the change in the CPI for credited service earned after 2013. The conditional inflation protection provision can only be invoked or updated when a funding valuation is filed. The Ontario government and designated employers participating in the Plan will make extra contributions to the Plan to match the inflation protection benefits members forego up to a maximum foregone inflation of 50% of CPI.

For the financial statement valuation, future pension payments for the credited service earned are indexed at the levels stated in the most recent funding valuation filing. The indexation levels from the most recent filing as at January 1, 2016 are as follows:

Credited service	Inflation protection level
Earned before 2010	100% of CPI
Earned during 2010 – 2013	90% of CPI
Earned after 2013	90% of CPI

In the most recent filing, inflation protection was partially restored for recent retirees. Effective January 1, 2017, pensioners who retired after 2009 received a one-time increase to their pensions to prospectively restore benefits to the level they would have been had 100% inflation protection been provided on January 1, 2016. Future cost of living increases will be equal to 90% of the annual increase in the CPI on credited service earned after 2009 (up from the previous level of 70%). This level will remain in effect until the next actuarial valuation is filed with the regulatory authorities at which time the level may be reduced or increased depending on the funded status of the Plan. The change in the level of conditional indexing resulted in an increase in the value of accrued pension benefits of $1,674 million (2015 – $675 million).

(c) Experience gains and losses

Experience gains on the accrued pension benefits of $194 million (2015 – $2,109 million) arose from differences between the actuarial assumptions and actual results.

NOTE 5.
INVESTMENT IN REAL ESTATE

The Plan's real estate portfolio is comprised of real estate-related investments that are either owned or managed on behalf of the Plan by The Cadillac Fairview Corporation Limited (CFCL), a wholly owned subsidiary. The Plan consolidates the fair value of the assets and liabilities of CFCL and the investment holding companies managed by CFCL. Investment holding companies and investment entities, including the joint ventures, managed by external parties, are recognized as the Plan's investments measured at fair value and presented on a non-consolidated basis.

The tables below provide information on the real estate portfolio. Intercompany transactions and balances are eliminated upon consolidation. The first table presents major components of the net investment in real estate. The second table presents major components of net real-estate income:

As at December 31		**2016**		2015
(Canadian $ millions)	**Fair Value**	**Cost**	Fair Value	Cost
Assets[1, 2]				
Real estate properties	**$ 26,506**	**$ 15,695**	$ 25,220	$ 14,783
Investments	**4,159**	**3,113**	3,966	3,003
Other assets	**258**	**256**	255	248
Total assets	**30,923**	**19,064**	29,441	18,034
Liabilities[1, 2]				
Long-term debt	**2,324**	**2,196**	3,640	3,451
Other liabilities	**872**	**680**	941	727
Total liabilities	**3,196**	**2,876**	4,581	4,178
Net investment in real estate	**$ 27,727**	**$ 16,188**	$ 24,860	$ 13,856

[1] U.S. Dollar, Mexican Pesos and Colombian Pesos net assets have been hedged by way of foreign currency forward contracts for a notional amount of $1,423 million (2015 – $1,660 million) with a combined fair value of ($8) million (2015 – ($54) million).

[2] Joint ventures managed by external parties hold real estate properties and have liabilities. The net asset value of these joint ventures is included in investments, representing assets of $708 million (2015 – $751 million) and liabilities of $305 million (2015 - $402 million).

(Canadian $ millions)	**2016**	2015
Revenue		
Rental	**$ 1,949**	$ 1,822
Investment and other	**92**	244
	2,041	2,066
Expenses		
Property operating	**850**	799
General and administrative	**36**	57
Other	**15**	21
	901	877
Operating income	**1,140**	1,189
Interest expense	**(90)**	(124)
Income (note 6)	**1,050**	1,065
Net investment gain	**906**	1,792
Net real estate income	**$ 1,956**	$ 2,857

NOTE 6.
NET INVESTMENT INCOME

Net investment income/(loss) after allocating net realized and unrealized gains on investments, management fees and transaction costs to asset classes

Net investment income is reported net of management fees, transaction costs, and is grouped by asset class. Net investment income, after giving effect to derivative contracts, for the year ended December 31, is as follows:

Net Investment Income							2016
(Canadian $ millions)	Income[1]	Realized[2]	Unrealized[2 3]	Investment Income	Management Fees	Transaction Costs	Net Investment Income
Fixed income							
Bonds	$ 800	$ (540)	$ (1,040)	$ (780)	$ (3)	$ (16)	$ (799)
Short-term investments	(7)	502	(154)	341	—	—	341
Alternative investments[4]	173	1,077	(769)	481	(25)	(2)	454
Canadian real-rate products	482	177	40	699	(2)	(5)	692
Non-Canadian real-rate products	208	137	48	393	—	—	393
	1,656	1,353	(1,875)	1,134	(30)	(23)	1,081
Equity							
Publicly traded							
Canadian	34	(137)	545	442	(1)	(10)	431
Non-Canadian	534	3,197	(2,355)	1,376	(44)	(43)	1,289
Non-publicly traded							
Canadian	50	(84)	278	244	(10)	(33)	201
Non-Canadian	746	2,084	(1,903)	927	(242)	(117)	568
	1,364	5,060	(3,435)	2,989	(297)	(203)	2,489
Natural resources							
Commodities	(24)	(110)	791	657	—	(3)	654
Timberland	153	70	(182)	41	—	—	41
Sector investment[5]	186	1	227	414	(20)	(3)	391
	315	(39)	836	1,112	(20)	(6)	1,086
Real assets							
Real estate (note 5)	1,065	371	535	1,971	(1)	(14)	1,956
Infrastructure	896	58	(505)	449	(10)	(53)	386
	1,961	429	30	2,420	(11)	(67)	2,342
	$ 5,296	$ 6,803	$ (4,444)	$ 7,655	$ (358)	$ (299)	$ 6,998

[1]Income includes interest, dividends, real estate operating income (net of interest expense), and other investment-related income and expenses.

[2]Includes net foreign currency losses of $209 million (both realized and unrealized).

[3] Net of certain management and performance fees.

[4]Comprised primarily of hedge funds, and managed futures accounts.

[5]Sector investment includes oil, gas, and agricultural assets.

Net Investment Income							2015
(Canadian $ millions)	Income	Realized[6]	Unrealized[6 7]	Investment Income	Management Fees	Transaction Costs	Net Investment Income
Fixed income							
Bonds	$ 630	$ 2,646	$ (1,273)	$ 2,003	$ (5)	$ (9)	$ 1,989
Short-term investments	—	88	41	129	—	—	129
Alternative investments[8]	60	(961)	1,239	338	(53)	(1)	284
Canadian real-rate products	467	85	7	559	—	(1)	558
Non-Canadian real-rate products	207	108	1,267	1,582	—	—	1,582
	1,364	1,966	1,281	4,611	(58)	(11)	4,542
Equity							
Publicly traded							
Canadian	(41)	97	(816)	(760)	—	(13)	(773)
Non-Canadian	757	5,923	(778)	5,902	(73)	(68)	5,761
Non-publicly traded							
Canadian	42	63	(141)	(36)	(17)	(8)	(61)
Non-Canadian	652	2,510	3,139	6,301	(239)	(184)	5,878
	1,410	8,593	1,404	11,407	(329)	(273)	10,805
Natural resources							
Commodities	(19)	(3,700)	1,974	(1,745)	—	(3)	(1,748)
Timberland	79	345	343	767	(1)	—	766
Sector investment[9]	53	—	(196)	(143)	(22)	(20)	(185)
	113	(3,355)	2,121	(1,121)	(23)	(23)	(1,167)
Real assets							
Real estate (note 5)	1,085	153	1,639	2,877	(1)	(19)	2,857
Infrastructure	751	2	1,914	2,667	(10)	(22)	2,635
	1,836	155	3,553	5,544	(11)	(41)	5,492
	$ 4,723	$ 7,359	$ 8,359	$ 20,441	$ (421)	$ (348)	$ 19,672

[6] Includes net foreign currency losses of $588 million (both realized and unrealized).

[7] Net of certain management and performance fees.

[8] Comprised primarily of hedge funds, and managed futures accounts.

[9] Sector investment includes oil, gas, and agricultural assets.

NOTE 7.
INVESTMENT RETURNS AND RELATED BENCHMARK RETURNS

Investment returns and related benchmark returns by investment asset class for the year ended December 31 are as follows:

(percent)	**2016** Investment Returns	**2016** Investment Benchmark Returns	2015 Investment Returns	2015 Investment Benchmark Returns
Fixed income	**0.8%**	**1.0%**	5.9%	6.0%
Canadian equity	**19.1**	**16.9**	(11.7)	(6.8)
Non-Canadian equity	**4.1**	**4.3**	21.2	17.6
Natural resources	**8.3**	**6.7**	(1.3)	(6.1)
Real assets	**5.3**	**3.4**	16.0	10.2
Total Plan	**4.2%**	**3.5%**	13.0%	10.1%

Investment returns have been calculated using a time-weighted rate of return methodology.

The Plan identifies benchmarks to evaluate the investment management performance. The performance of each asset class is measured against benchmarks that simulate the results based on the investment strategies employed by the investment managers identified for the asset class.

The total Plan return is measured against a Canadian dollar-denominated composite benchmark produced by aggregating returns from each of the policy asset-class benchmarks, using the Plan's asset-mix policy weights.

NOTE 8.
STATUTORY ACTUARIAL VALUATIONS

Statutory actuarial valuations are prepared periodically to determine the funding requirements of the Plan. Active members are required to contribute 11.50% of the portion of their salaries covered by the CPP and 13.10% of salaries above this level. Member contributions are matched by the Province and designated employers. In addition, the Funding Management Policy established by the co-sponsors provides procedures for the co-sponsors to determine contributions and benefits.

Under an agreement between the co-sponsors, contribution rates are as follows:

(percent)	Contribution Rate Covered by CPP	Contribution Rate Not covered by CPP
2012	10.80%	12.40%
2013	11.15%	12.75%
2014 to 2026	11.50%	13.10%

The actuarial methods used to prepare statutory actuarial valuations are different than those used to prepare a financial statement actuarial valuation and the amounts disclosed in these consolidated financial statements. The statutory actuarial valuations use a valuation method which takes into account future benefits to be earned and future contributions to be made by members of the Plan as at the valuation date.

The most recent statutory actuarial valuation that has been filed with regulatory authorities was prepared as at January 1, 2016, by Mercer (Canada) Limited and disclosed a funding surplus of $4,522 million, after adopting conditional inflation protection of 90% for credited service earned between 2010 and 2013 and after 2013, as well as recognizing the special contributions included in the 2016 contribution rate described above, of 1.1% of salary payable until December 31, 2026.

NOTE 9.
CONTRIBUTIONS

(Canadian $ millions)	2016	2015
Members		
Current service[1]	$ 1,619	$ 1,592
Optional credit	34	35
	1,653	1,627
Province of Ontario		
Current service	1,596	1,567
Interest	36	37
Optional credit	31	32
	1,663	1,636
Designated employers	34	33
Transfers from other pension plans	13	14
	47	47
	$ 3,363	$ 3,310

[1] Contributions past due are less than $1 million in 2016 and 2015.

NOTE 10.
BENEFITS PAID

(Canadian $ millions)	2016	2015
Retirement pensions	$ 5,227	$ 5,056
Death benefits	376	344
Disability pensions	26	27
Commuted value transfers	64	74
Family law transfers	24	27
Transfers to other plans	8	8
Refunds	—	1
	$ 5,725	$ 5,537

NOTE 11.
ADMINISTRATIVE EXPENSES

(a) Investment expenses

(Canadian $ millions)		2016		2015
Salaries, incentives and benefits	$	**290.1**	$	277.7
Premises and equipment		**49.4**		44.9
Professional and consulting services		**50.1**		46.0
Information services		**28.7**		25.8
Communication and travel		**16.4**		16.8
Custodial fees		**7.3**		10.2
Statutory audit fees		**2.3**		1.9
Board and committee remuneration		**0.9**		0.8
Other		**6.0**		5.0
	$	**451.2**	$	429.1

(b) Member services expenses

(Canadian $ millions)		2016		2015
Salaries, incentives and benefits	$	**37.4**	$	36.3
Premises and equipment		**10.6**		8.8
Professional and consulting services		**4.8**		4.2
Communication and travel		**1.2**		1.4
Statutory audit fees		**0.1**		0.1
Board and committee remuneration		**0.1**		0.1
Other		**0.8**		0.9
	$	**55.0**	$	51.8

(c) Compensation of key management personnel

Key management personnel are defined as those persons having authority and responsibility for planning, directing and controlling the activities of the Plan, being the Board members, the executive team and the senior vice presidents of the Investment Division.

The compensation of the key management personnel is included in the administrative expenses of the Plan. There are no other related party transactions between the key management personnel and the Plan.

The compensation of the key management personnel[1] as at December 31 is summarized below:

(Canadian $ millions)		2016		2015
Short-term employee benefits	$	**14.6**	$	13.0
Post-employment benefits		**2.4**		5.9
Termination benefits		**3.5**		—
Other long-term benefits		**12.6**		16.3
	$	**33.1**	$	35.2

[1] The table does not include compensation of either officers or directors of The Cadillac Fairview Corporation Limited.

(d) Employees' post-employment benefits

The employees of the Plan are members of the defined benefit plans, of either the Ontario Public Service Employees Union (OPSEU) Pension Plan or Public Service Pension Plan (PSPP). The expected contributions from the Plan in 2017 are approximately $12.3 million. Some employees are also members of the Public Service Supplementary Plan (PSSP). These three pension plans are sponsored by the Province of Ontario and information is available on www.optrust.com and www.opb.ca. As the employer, the Plan matches the employees' contributions to these pension plans. Some senior management employees also participate in a non-registered, unfunded Supplemental Employee Retirement Plan (SERP) managed by the Plan to provide the employees non-indexed retirement benefits equal to 2% of the employee's pensionable earnings times the number of years of service, less the initial annual pension to which the employee is entitled under the PSPP and PSSP, combined. The contributions expensed by the Plan during the year were $12.5 million (2015 – $15.3 million). Contributions are included in the salaries, incentives and benefits expenses.

NOTE 12.
CAPITAL

The funding surpluses or deficits determined regularly in the funding valuations prepared by an independent actuary are described as the Plan's capital in the consolidated financial statements. The actuary's funding valuation is used to measure the long-term health of the Plan. The actuary tests the Plan's ability to meet its obligations to all current Plan members and their survivors. Using an assumed rate of return, the actuary projects the Plan's benefits to estimate the current value of the liability (see note 4), which is compared to the sum of the Plan assets, the future contributions for all current Plan members and the present value of the contribution increases for future members. The result of the comparison is either a surplus or a deficit.

The objective of managing the Plan's capital is to ensure the Plan is fully funded to pay the plan benefits over the long term. The co-sponsors change the benefit and contribution levels to eliminate any deficits. The Funding Management Policy set by the co-sponsors in the Partners' Agreement provides guidance on how the co-sponsors manage the Plan's capital.

A funding valuation, including a plan to eliminate any deficit, is required to be filed with the pension regulator at least every three years. A preliminary funding valuation is performed by the actuary when the valuation is not filed with the regulator assisting the co-sponsors in managing the Plan's capital.

The most recent funding valuation filed is disclosed in note 8.

NOTE 13.
RETIREMENT COMPENSATION ARRANGEMENT (RCA)

Restrictions in the ITA on the payment of certain benefits from a registered plan for periods of service after 1991 may impact some Plan members. To address affected members, the RCA was established by agreement between the co-sponsors as a supplementary plan to provide these benefits.

The RCA is administered under a trust separate from the assets of the Plan. The Board has been appointed by the co-sponsors to act as the trustee of the RCA.

Because the RCA is a separate trust and the Plan does not control the RCA, the net assets available for benefits and the value of accrued benefits and deficit, referred to below, have not been included in the consolidated financial statements of the Plan.

The RCA is funded on a pay-as-you-go basis from a portion of the contributions made to the Plan by members, the Province and designated employers. The portion is based on a limit on contributions to the Plan with contributions above the limit being remitted to the RCA. The limit is determined annually by the Plan's independent actuary such that the RCA contributions are expected to be more than sufficient to pay the benefits over the next 12 months. At the beginning of 2017, the actuary determined that the limit should remain at $14,500. Due to the funding policy adopted by the co-sponsors, the net assets available for benefits will continue to be substantially less than the accrued benefits.

In addition, because it is difficult to predict the benefits expected to be paid over the next 12 months, it is possible that the assets may be insufficient to pay the benefits. In such a case, the payment of benefits will be temporarily suspended and contributions raised in order to fund the payments that are due under the RCA.

The RCA financial statements are in compliance with Section 4600 and IFRS. A summary of the financial statements for the RCA, is as follows:

As at December 31 (Canadian $ thousands)	**2016**	2015
Statements of financial position		
NET ASSETS AVAILABLE FOR BENEFITS		
Assets	**$ 41,619**	$ 27,186
Liabilities	**(5,382)**	(2,060)
	$ 36,237	$ 25,126
ACCRUED BENEFITS AND DEFICIT		
Accrued benefits	**$ 335,040**	$ 309,172
Deficit	**(298,803)**	(284,046)
	$ 36,237	$ 25,126
Statements of changes in net assets available for benefits		
Contributions	**$ 20,662**	$ 11,251
Investment income	**138**	150
	20,800	11,401
Benefits paid	**9,524**	12,272
Expenses	**165**	105
	9,689	12,377
Increase/(decrease) in net assets available for benefits	**$ 11,111**	$ (976)

The actuarial assumptions and the accrual of conditional inflation protection used in determining the value of accrued benefits are consistent with the Plan except that the assumed discount rate has been adjusted to reflect the effect of the 50% refundable tax under the RCA.

The estimate of the value of accrued benefits is highly sensitive to salary increases, both actual and assumed. Any changes to the salary assumptions will have a significant effect on the liabilities for future benefits. In addition, significant uncertainty exists in projecting the liabilities of the RCA due to changes in the number of future participants as well as changes to the income tax regulations relating to pensions.

NOTE 14.
COMMITMENTS

The Plan has committed to enter into investment and other transactions, which may be funded over the next several years in accordance with the terms and conditions agreed to. As at December 31, 2016, these commitments totalled $10,597 million (2015 – $13,112 million).

NOTE 15.
GUARANTEES AND INDEMNIFICATIONS

Guarantees

The Plan provides guarantees to third parties related to certain companies the Plan invests in and will be called upon to satisfy the guarantees if the companies fail to meet their obligations. The Plan expects most guarantees to expire unused. No payments have been made by the Plan in either 2016 or 2015 under these guarantees.

The Plan guarantees loan and credit agreements. The Plan's maximum exposure is $nil million as at December 31, 2016 (2015 – $149 million).

The Plan guarantees lease agreements for a subsidiary with expiry dates ranging from 2017 to 2059. The Plan's maximum exposure is $96 million as at December 31, 2016 (2015 – $96 million). There were no default lease payments in either 2016 or 2015.

The Plan also guarantees the ability of certain investee companies to settle certain financial obligations. The Plan's maximum exposure is $67 million as at December 31, 2016 (2015 - $116 million).

The Cadillac Fairview Corporation Limited manages the real estate investments and has provided guarantees relating to the completion of the construction of certain residential developments. The term of these guarantees spans the lives of the development projects, which range from one to five years. The maximum exposure cannot be determined because the projects are not yet complete. These guarantees amounted to $151 million as at December 31, 2016 (2015 – $213 million) and have not been recognized in the real estate liabilities.

The Plan guarantees the debentures issued by a real estate trust it consolidates. No payments have been made by the Plan into the real estate trust or related to the debentures. The debentures are comprised of $0.75 billion 4.31% Series B Debentures maturing on January 25, 2021 and $0.6 billion 3.64% Series C Debentures maturing on May 9, 2018. As at December 31, 2015, the Plan also guaranteed the $1.25 billion 3.24% Series A Debentures which matured on January 25, 2016. The debentures, included in the Plan's real estate investment-related liabilities, may be redeemed by the issuer at any time prior to maturity.

The Plan also guarantees commercial paper issued by Ontario Teachers' Finance Trust which the Plan consolidates. No payments have been made by the Plan into the trust or related to the commercial paper, which are issued through private placements in U.S. and Canada. The maximum aggregate principal amounts outstanding at any one time do not exceed $10 billion. As at December 31, 2016, commercial paper issued by the trust amounted to $9,127 million (2015 - $3,062 million). The commercial paper, included in the Plan's investment-related liabilities, is not redeemable prior to maturity or subject to voluntary prepayment. The maturity terms are up to 270 days from the date of issue in U.S. and up to 364 days in Canada.

Indemnifications

The Plan provides that Board members, employees and certain others are to be indemnified in relation to certain proceedings that may be commenced against them. In addition, in the normal course of operations, the Plan may, in certain circumstances, agree to indemnify a counterparty. Under these agreements, the Plan, its subsidiaries and joint ventures may be required to compensate counterparties for costs incurred as a result of various contingencies such as legal claims or changes in laws and regulations. The number of such agreements, the variety of indemnifications and their contingent character prevents the Plan from making a reasonable estimate of the maximum amount that would be required to pay all such counterparties.

MAJOR INVESTMENTS

As at December 31, 2016

FIXED INCOME AND SHORT-TERM INVESTMENTS OVER $150 MILLION

Type (Canadian $ millions)	Maturity	Coupon (%)	Fair Value	Cost
Government of Canada bonds	2017–2064	0.00–9.00	$ 29,756	$ 28,454
Canadian corporate bonds	2017–2043	0.00–14.00	956	950
Securities purchased under agreements to resell	2017–2017	-1.50–1.25	27,910	27,621
Commercial paper	2017–2017	0.00–0.00	1,405	1,402
Canada treasury bills	2017–2017	0.00–0.00	4,606	4,604
International sovereign debt	2018–2060	0.00–26.38	2,655	2,909
International corporate bonds	2017–2053	0.00–13.00	7,047	7,023
U.S. treasury bonds	2017–2046	0.63–6.25	(10,084)	(8,559)
International agency bonds	2017–2024	3.13–8.25	376	375
Provincial bonds	2018–2048	1.20–8.50	8,307	8,043
Bank notes	2017–2017	0.00–0.55	3,420	3,408
Securities sold under agreements to repurchase	2017–2017	-0.40–2.10	(47,422)	(47,131)
Commercial paper issued	2017–2017	0.00–1.40	(9,120)	(8,935)

REAL-RETURN INVESTMENTS OVER $150 MILLION

Type (Canadian $ millions)	Maturity	Coupon (%)	Fair Value	Cost
Real-return Canada bonds	2021–2047	1.25–4.25	$ 16,686	$ 12,966
Real-return Canadian corporate bonds	2021–2046	0.00–5.33	1,675	700
U.S. treasury inflation protection	2017–2044	0.13–3.88	10,153	6,976
Real-return provincial bonds	2021–2036	2.00–4.50	1,925	1,243

CORPORATE SHARES/UNITS OVER $150 MILLION

As at December 31, 2016 (millions)

Security Name	Shares	Fair Value
The Macerich Company	23.3	$2,212.2
iShares MSCI Emerging Markets Index	37.5	1,755.4
Multiplan Empreendimentos Imobiliarios S.A.	54.8	1,302.5
Samsung Electronics Co., Ltd.	0.2	468.8
Sprint Corporation	34.7	392.2
Alphabet Inc.	0.3	343.4
Hudson's Bay Company	23.0	304.8
JPMorgan Chase & Co.*	2.4	273.0
American International Group, Inc.	3.1	272.3
Level 3 Communications, Inc.	3.1	236.0
Microsoft Corporation	2.7	226.4
General Motors Company	4.8	225.2
Aircastle Limited	7.9	220.5
SoftBank Group Corp.	2.4	209.9
Nissan Shatai Co., Ltd.	15.7	205.6
TMX Group Limited	2.8	203.4

Security Name	Shares	Fair Value
FedEx Corp.	0.8	$194.8
LafargeHolcim Ltd.	2.7	189.3
Athene Holding Ltd.	3.2	185.1
XPO Logistics, Inc.	3.2	183.7
Tencent Holdings Limited	5.4	176.0
Sony Corporation	4.7	175.7
EXOR N.V.	3.0	171.1
Daimler AG	1.7	166.7
Comcast Corporation	1.7	162.4
Chubb Limited	0.9	160.8
Citigroup Inc.	2.0	159.5
Nokia Corporation	24.3	157.7
Facebook, Inc.	1.0	156.9
Lloyds Banking Group plc	150.8	156.2
Wells Fargo & Company*	2.6	153.2
Nestlé S.A.	1.6	153.0

* Includes fair market value of warrants.

REAL ESTATE PROPERTIES OVER $150 MILLION

As at December 31, 2016

Property	Total Square Footage (in thousands)	Effective % Ownership
Canadian Regional Shopping Centres		
Champlain Place, Dieppe	850	100%
Chinook Centre, Calgary	1,419	100%
Fairview Mall, Toronto	875	50%
Fairview Park Mall, Kitchener	747	100%
Fairview Pointe Claire, Montreal	1,045	50%
Le Carrefour Laval, Montreal	1,435	100%
Les Galeries D'Anjou, Montreal	1,351	50%
Les Promenades St. Bruno, Montreal	1,132	100%
Lime Ridge Mall, Hamilton	806	100%
Market Mall, Calgary	934	50%
Markville Shopping Centre, Markham	1,017	100%
Masonville Place, London	637	100%
Pacific Centre, Vancouver	1,070	100%
Polo Park Mall, Winnipeg	1,199	100%
Richmond Centre, Richmond	795	50%
Rideau Centre, Ottawa	1,403	100%
Sherway Gardens, Toronto	1,236	100%
Shops at Don Mills, Toronto	468	100%
The Promenade, Toronto	706	100%
Toronto-Dominion Centre, Toronto	158	70%
Toronto Eaton Centre, Toronto	2,903	100%

Property	Total Square Footage (in thousands)	Effective % Ownership
Canadian Office Properties		
City Centre Office, Calgary	853	100%
Deloitte Tower, Montreal	515	100%
Granville Square, Vancouver	403	100%
HSBC Building, Vancouver	395	100%
Pacific Centre Office Complex, Vancouver	1,820	100%
PricewaterhouseCoopers Place, Vancouver	241	100%
RBC Centre, Toronto	1,223	50%
Shell Centre, Calgary	693	100%
Toronto-Dominion Centre Office Complex, Toronto	4,425	70%
Toronto Eaton Centre Office Complex, Toronto	1,845	100%
Waterfront Centre, Vancouver	402	100%
Yonge Corporate Centre, Toronto	668	100%

PRIVATE COMPANIES AND PARTNERSHIPS OVER $150 MILLION

As at December 31, 2016

24 Hour Fitness Worldwide Inc.
AEA Investors Fund V LP
Aethon Energy Management LLC
Alliance Laundry Systems, LLC
Apollo Overseas Partners (Delaware 892) VI, L.P.
Apollo Overseas Partners (Delaware 892) VIII, L.P.
Apollo Special Situations Fund, L.P.
AQR Offshore Multi-Strategy Fund VII Ltd.
Ares Corporate Opportunities Fund III, L.P.
Ares Corporate Opportunities Fund IV, L.P.
Aroona Farms SA Pty Ltd.
Ascend Learning Holdings, LLC
Asia Opportunity Fund III, L.P.
Automobile Protection Corporation
Autopista Arco Norte, S.A. de CV
Baldr Fund Inc.
Baybridge Seniors Housing Inc.
BDCM Offshore Opportunity Fund II, Ltd.
Birmingham International Airport
BluEarth Renewables Inc.
Bridgewater Pure Alpha Fund II, Ltd.
Bristol Airport Limited
BroadStreet Capital Partners, Inc.
Busy Bees Benefits Holdings Limited
Camelot Group plc
Canada Guaranty Mortgage Insurance Company
Canbriam Energy, Inc.
Catalina Holdings (Bermuda) Ltd.
Catterton Partners VII, L.P.
Cerberus OT Partners, L.P.
Constellation Brands Canada, Inc.
Copenhagen Airport A/S
Coway Holdings, Inc.
CPG International Inc.
CSC ServiceWorks Holdings, Inc.
Cubico Sustainable Investments Limited
DaVinciRe Holdings Ltd.
DTZ Jersey Holdings Ltd.
EdgeMarc Energy Holdings, LLC
Empresa de Servicios Sanitarios del Bio-Bio S.A.
Esval S.A.
Euclid Fund
Exal International Limited
FAPS Holdings, Inc.
Fifth Cinven Fund (No. 6) Limited Partnership
Flexera Holdings, L.P.
Flynn Restaurant Group LLC
FMAP CIM Limited
FMAP PCM Limited
FMAP WMC Limited
FountainVest China Growth Fund II, L.P.
FountainVest China Growth Fund, L.P.
GCT Global Container Terminals Inc.
Hancock Timber Resource Group
HayFin Topaz L.P.
Heartland Dental Care, Inc.
Helly Hansen Group AS
Heritage Royalty Limited Partnership
HS1 Limited
Hudson Catastrophe Fund, Ltd.
Imperial Parking Corporation
Infiltrator Systems, Inc.
InterGen N.V.
Irish National Lottery
Kepos Alpha Fund Ltd.
Koole Tankstorage Zaandam B.V.
Kyobo Life Insurance Co., Ltd.
Lancaster Aircraft Leasing Limited Partnership
LMAP 902 Limited
LMAP 903 Limited
LMAP 904 Limited
LMAP 909
LMAP Chi Limited
London City Airport
Lowell Group Limited
MBK Partners Fund II, L.P.
MBK Partners III, L.P.
MR Argent Offshore Fund AB L.P.
MSB Capital Limited
Munchkin, Inc.
Nextgen Group Holdings Pty Limited
Nuevosur, S.A.
NXT Capital Holdings, L.P.
OGF SA
OLE Media Management L.P.
Orbis Institutional Global Equity L.P.
PAG Asia I L.P.
PetVet Care Centers, Inc.
PhyMed Healthcare Group
Plano Molding Company
Polar Multi-Strategy Fund (Legacy)
Providence Equity Partners VI L.P.
Providence Equity Partners VII-A L.P.
RedBird Capital Partners Platform L.P.
Resource Management Service Inc.
Riverbed Technology, Inc.
Scotia Gas Networks plc
SeaCube Container Leasing Ltd.
Serta Simmons Holdings, LLC
Shearer's Foods, Inc.
Silver Lake Partners III, L.P.
Silver Lake Partners IV, L.P.
Skyway Concession Company LLC
Sociedad Austral de Electricidad S.A.
Solus Offshore Opportunities Fund 5 L.P.
Storapod Holding Company, Inc.
Sydney Desalination Plant Pty Limited
Synlab Limited
TDR Capital II 'B' L.P.
Terranum Corporate Properties
The Brussels Airport Company
TierPoint, LLC
TP Partners Fund, L.P.
Trian Partners Co-Investment Opportunities Fund, L.P.
Trian Partners, Ltd.
Univision Communications Inc.
ValueAct Capital International II, L.P.
Westerleigh Group Holdings Limited
Woodspur Farming LLC

ELEVEN-YEAR FINANCIAL REVIEW

(Canadian $ billions)	**2016**	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
CHANGE IN NET ASSETS											
Income											
Investment income	**$7.00**	$19.67	$16.26	$13.72	$14.75	$11.74	$13.27	$10.89	$(19.03)	$4.68	$12.31
Contributions											
Members/transfers	**1.70**	1.67	1.63	1.55	1.48	1.41	1.35	1.29	1.13	1.06	0.83
Province of Ontario	**1.66**	1.64	1.59	1.53	1.46	1.41	1.35	1.43	1.18	1.08	0.82
Total income	**10.36**	22.98	19.48	16.80	17.69	14.56	15.97	13.61	(16.72)	6.82	13.96
Expenditures											
Benefits paid	**5.72**	5.54	5.31	5.15	4.92	4.66	4.50	4.39	4.20	4.02	3.82
Investment expenses	**0.45**	0.43	0.41	0.36	0.30	0.29	0.29	0.21	0.15	0.23	0.22
Member Services expenses	**0.06**	0.05	0.05	0.05	0.04	0.05	0.05	0.04	0.04	0.04	0.03
Total expenditures	**6.23**	6.02	5.77	5.56	5.26	5.00	4.84	4.64	4.39	4.29	4.07
Increase/(decrease) in net assets	**$4.13**	$16.96	$13.71	$11.24	$12.43	$9.56	$11.13	$8.97	$(21.11)	$2.53	$9.89
NET ASSETS											
Investments											
Fixed income											
Bonds	**$43.53**	$37.98	$35.19	$30.53	$28.87	$26.50	$22.73	$15.46	$14.22	$22.91	$20.86
Real-rate products	**31.72**	31.13	30.36	26.37	31.14	29.29	23.24	19.88	17.41	11.06	11.80
Equities											
Canadian	**4.27**	3.54	10.71	10.86	11.40	10.64	9.29	8.43	6.21	13.73	16.39
Non-Canadian	**61.68**	74.00	58.14	51.03	48.11	41.03	38.20	32.75	28.72	36.31	32.42
Natural resources											
Commodities	**4.18**	4.00	9.03	8.21	6.97	5.64	5.22	1.94	1.25	3.02	2.32
Timberland	**2.45**	2.70	2.59	2.45	2.17	2.17	2.22	2.34	2.80	2.12	2.05
Sector investment	**3.83**	3.55	0.28	0.17	–	–	–	–	–	–	–
Real assets											
Real estate	**26.47**	24.86	22.09	19.24	16.86	14.96	16.86	14.21	13.48	13.41	11.12
Infrastructure	**17.83**	15.66	12.66	11.68	9.65	8.71	7.07	5.57	7.23	6.72	4.73
Absolute return strategies	**13.28**	17.76	15.84	12.20	12.27	12.33	11.38	11.67	14.75	12.30	15.21
Overlay	**0.51**	–	–	–	–	–	–	–	–	–	–
Money market	**(37.67)**	(46.93)	(44.50)	(33.84)	(40.18)	(35.01)	(31.49)	(18.74)	(20.97)	(13.58)	(11.22)
Net investments	**172.08**	168.25	152.39	138.90	127.26	116.26	104.72	93.51	85.10	108.00	105.68
Receivable from Province of Ontario	**3.27**	3.21	3.10	2.97	2.83	2.72	2.63	2.52	2.19	1.84	1.58
Other assets	**1.21**	0.44	0.22	0.14	0.50	0.51	0.57	0.63	0.40	0.36	0.08
Other liabilities	**(0.99)**	(0.46)	(1.23)	(1.25)	(1.07)	(2.39)	(0.39)	(0.26)	(0.25)	(1.65)	(1.33)
Net assets	**175.57**	171.44	154.48	140.76	129.52	117.10	107.53	96.40	87.44	108.55	106.01
Accrued pension benefits	**189.40**	173.27	172.73	148.57	166.01	162.59	146.89	131.86	118.14	115.46	110.50
Deficit	**$(13.83)**	$(1.83)	$(18.25)	$(7.81)	$(36.49)	$(45.49)	$(39.36)	$(35.46)	$(30.70)	$(6.91)	$(4.49)
PERFORMANCE (percent)											
Rate of return	**4.2**	13.0	11.8	10.9	13.0	11.2	14.3	13.0	(18.0)	4.5	13.2
Benchmark	**3.5**	10.1	10.1	9.3	11.0	9.8	9.8	8.8	(9.6)	2.3	9.4

ASSUMPTIONS USED FOR FINANCIAL STATEMENT VALUATION

As at December 31 (percent)	**2016**	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
Discount rate	**3.25**	3.25	3.35	4.20	3.40	3.40	4.05	4.60	4.00	4.65	4.70
Salary escalation rate	**2.80**	2.50	2.70	3.00	3.00	3.05	3.40	3.55	2.35	3.20	3.40
Inflation rate	**1.80**	1.50	1.70	2.00	2.00	2.05	2.40	2.55	1.35	2.20	2.40
Real rate[1]	**1.40**	1.70	1.65	2.20	1.40	1.35	1.65	2.05	2.65	2.45	2.30

[1] Effective December 31, 2015, real rate shown as the geometric difference between the discount rate and the inflation rate. Previously, the real rate shown was based on the arithmetic difference between the discount rate and the inflation rate.

FUNDING VALUATION HISTORY

Funding valuations must be filed with pension regulatory authorities at least every three years. Valuation dates and voluntary filings are determined by OTF and the Ontario government. Filings must show the plan has sufficient assets to pay all future benefits to current plan members. The 10 most recent filed funding valuations and the assumptions used for each are summarized in the table below. Details on plan changes from funding decisions are available in the Plan Funding section at otpp.com.

In the 2016 filing, sponsors used some of the $13.2 billion preliminary funding surplus to boost pensions of members who retired after 2009 to the level they would have been at if full inflation protection had been provided on January 1, 2016. The surplus funds were also used to increase inflation protection levels for pension credit earned after 2009 to 90% from 70% of the increase in the cost of living. Both changes were effective January 2017. In addition, some surplus funds were reserved to help facilitate stability in contribution and benefit levels should a future funding valuation show a decline in assets or an increase in pension costs.

FILED FUNDING VALUATIONS[1]

As at January 1 (Canadian $ billions)	**2016**	2015	2014	2012	2011	2009	2008	2005	2003	2002
Net assets available for benefits	**$171.4**	$154.5	$140.8	$117.1	$107.5	$87.4	$108.5	$84.3	$66.2	$69.5
Smoothing adjustment	**(10.8)**	(8.2)	(7.2)	(3.0)	3.3	19.5	(3.6)	(1.5)	9.7	3.0
Value of assets	**160.6**	146.3	133.6	114.1	110.8	106.9	104.9	82.8	75.9	72.5
Future basic contributions	**41.5**	38.8	37.5	35.4	33.8	25.9	23.6	16.7	14.7	13.7
Future special contributions	**3.1**	3.5	3.5	3.3	3.8	5.5	5.6	6.2	–	–
Future matching of CIP benefit reduction	**2.3**	5.9	7.4	7.3	5.1	–	–	–	–	–
Total assets	**207.5**	194.5	182.0	160.1	153.5	138.3	134.1	105.7	90.6	86.2
Cost of future pensions[2]	**(205.3)**	(197.3)	(188.2)	(167.6)	(158.4)	(137.5)	(134.1)	(105.6)	(89.1)	(84.3)
Reduction in cost due to less than 100% indexing	**2.3**	5.9	7.4	7.7	5.1	–	–	–	–	–
Surplus	**$4.5**	$3.1	$1.2	$0.2	$0.2	$0.8	$0.0	$0.1	$1.5	$1.9

ASSUMPTIONS USED FOR FILED VALUATIONS

As at January 1 (percent)	**2016**	2015	2014	2012	2011	2009	2008	2005	2003	2002
Inflation rate	**2.00**	2.00	2.10	2.20	2.15	1.35	2.20	2.750	2.05	1.90
Real discount rate[3]	**2.75**	2.85	2.85	3.10	3.25	3.65	3.45	3.725	4.35	4.40
Discount rate	**4.80**	4.85	4.95	5.30	5.40	5.00	5.65	6.475	6.40	6.30

1 Valuation filing dates determined by the plan sponsors.

2 Includes value of 100% inflation protection.

3 Effective January 1, 2016, real rate shown as the geometric difference between the discount rate and the inflation rate. Previously, the real rate shown was based on the arithmetic difference between the discount rate and the inflation rate.

ASSUMPTIONS

Conditional Inflation Protection (CIP) Level	**2016**	2015	2014	2012	2011	2009	2008	2005	2003	2002
CIP – Post-2009–Pre-2014	**90.0**	70.0	60.0	50.0	60.0	100.0	n/a	n/a	n/a	n/a
CIP – Post-2013	**90.0**	70.0	60.0	45.0	60.0	100.0	n/a	n/a	n/a	n/a
Contribution level above the YMPE	**13.1**	13.1	13.1	12.4	12.0	12.0	11.2	8.9	8.9	8.9
Contribution level below the YMPE	**11.5**	11.5	11.5	10.8	10.4	10.4	9.6	7.3	7.3	7.3