



TTC Pension Fund Society 2017 Annual Report

Date: June 12, 2018

To: TTC Board

From: Chief Financial Officer

Summary

The attached 2017 TTC Pension Fund Society Annual Report is submitted for the information of the TTC Board.

Financial Summary

There are no financial implications resulting from the adoption of this report.

Equity/Accessibility Matters

This report has no accessibility or equity issues.

Decision History

The Annual Report is a comprehensive publication distributed primarily for communication with TTC employees and pensioners. Similar to the Annual Reports of other major Ontario pension plans, the attached covers important information, discussion and analysis of the TTC Pension Fund Society's financial position, investments, funded status and administrative matters.

Issue Background

The PFS was established through collective bargaining and incorporated on January 3, 1940 to provide retirement benefits for Toronto's transit employees. The PFS pension plan is administered by a Board, consisting of five Directors appointed by the Toronto Transit Commission and five directors who are ex-officio members of the Amalgamated Transit Union Local 113 executive. The directors are also contributing members of the plan, which promotes a strong alignment of interest with the plan members. The PFS

Board of Directors review, monitor and make decisions on the administration of the plan benefits and investments within tolerable risk parameters. To fulfill this responsibility, the Board delegates the day-to-day management of operations to the PFS staff and hires professional investment managers, consultants, actuarial and legal counsel to advise them.

Effective January 1, 2011, pursuant to the Memorandum of Agreement between the Toronto Transit Commission and the Amalgamated Transit Union Local 113, the PFS was established as a Jointly Sponsored Pension Plan (JSPP), as defined by the *Ontario Pension Benefits Act*. Other Ontario JSPPs include: Ontario Teachers' Pension Plan, OMERS, Healthcare of Ontario Pension Plan, Ontario Public Service Employees' Union Pension Plan (OP Trust) and Colleges of Applied Arts and Technology Pension Plan.

The PFS is a defined benefit, multi-employer pension plan. It covers substantially all employees of the TTC and ATU (the employers) who have completed six months of continuous service. Contributions are made into the plan by members and matched dollar for dollar by their employer. The contribution rate is 9.25% up to the Yearly Maximum Pensionable Earnings (YMPE) and 10.85% above YMPE. The YMPE for 2017 was \$55,300. It is worth noting that the PFS contribution rates have remained at this level since 2011 and is among the lowest of other Ontario JSPPs.

The plan is registered with the Financial Services Commission of Ontario and is subject to regulation under the *Ontario Pension Benefits Act* and the *Income Tax Act* (registration number 0317586).

As at December 31, 2017, the PFS had approximately 14,000 active members and 8,500 pensioners and net assets of \$6.6 billion. The PFS plan design supports equal cost and risk sharing between employees and employers. Unlike typical final average earnings defined benefit plans, the PFS plan does not provide automatic annual updates to the best four-year base period used in determining pension benefits, and does not guarantee automatic increases to pensions in payment. Instead, benefit changes are approved only when, and to the degree that, they are deemed actuarially affordable.

Contact

Sean Hewitt, Chief Executive Officer
416-393-3610
Sean.Hewitt@ttc.ca

Signature

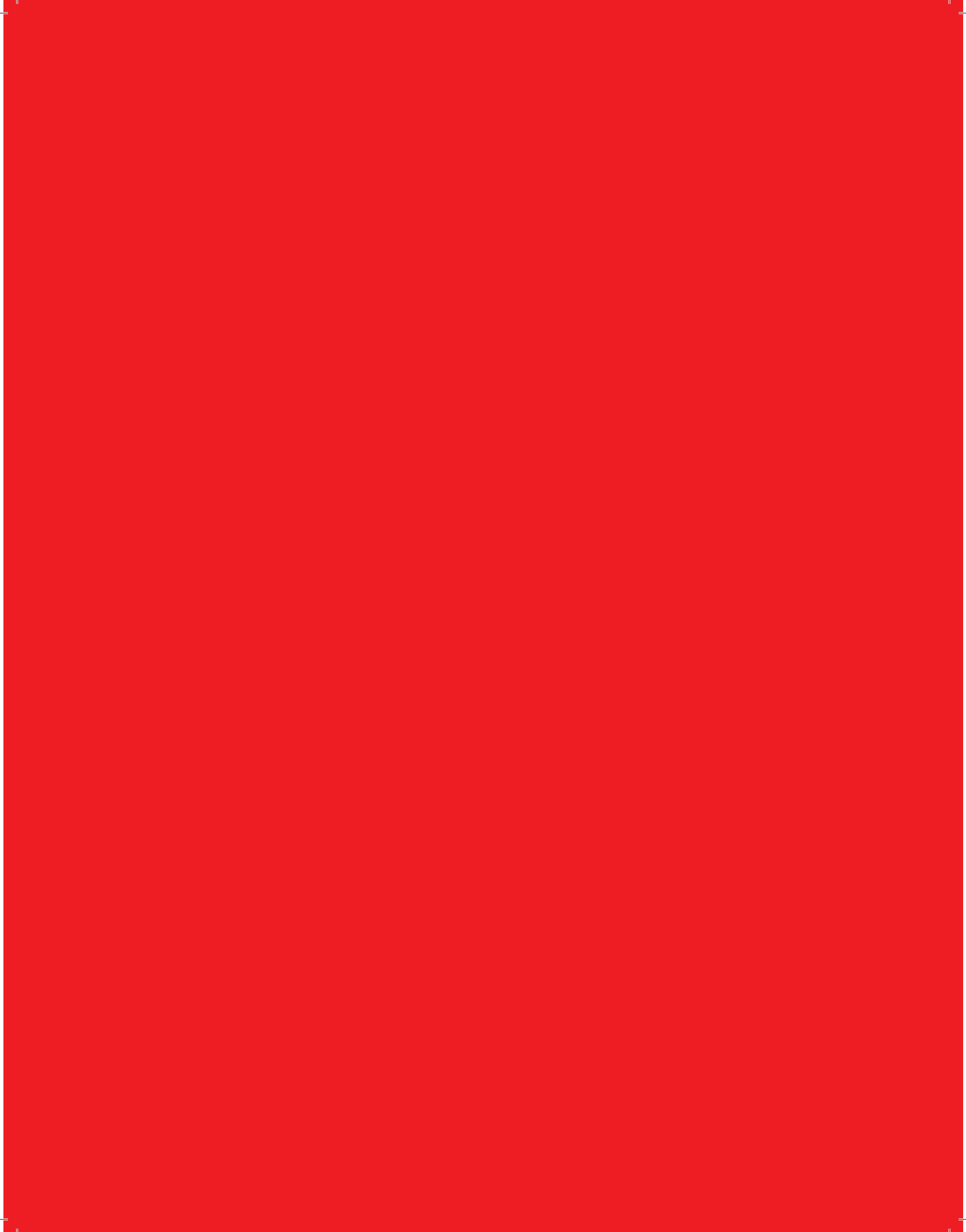
Dan Wright
Chief Financial Officer

Attachments

Attachment 1 – 2017 TTC Pension Fund Society Annual Report



TTC Pension Fund Society
2017 Annual Report



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About the TTC Pension Fund Society



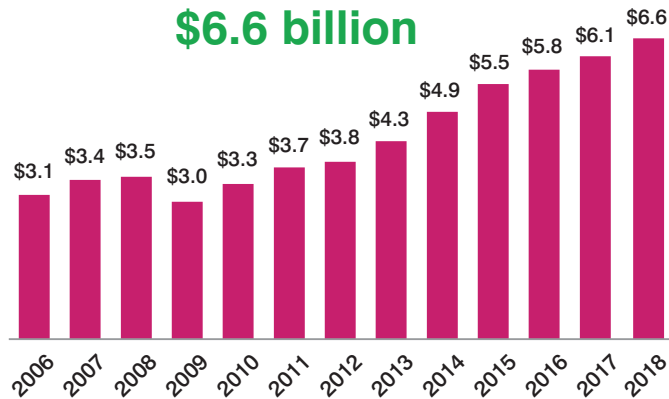
The Toronto Transit Commission Pension Fund Society (the “PFS”) was incorporated in 1940 under Part XVI of The Companies Act of Ontario. The PFS through its Board of Directors (the “Board”) administers a contributory, defined benefit pension plan (the “Plan”). The Board consists of voting members from the Toronto Transit Commission (TTC) and the Amalgamated Transit Union Local 113 (ATU). The terms of the Plan are set out in the Bylaws of the PFS (the “Bylaws”), as amended from time to time.

The Plan is a Jointly-Sponsored Pension Plan (“JSPP”), established pursuant to an agreement (the “Sponsors Agreement”) dated May 27, 2011, between the two co-sponsors, the Toronto Transit Commission (“TTC”) and the Amalgamated Transit Union Local 113 (“ATU”). The TTC and the ATU, together, are referred to as the “Sponsors” or “Employers”.

Active Members of the Plan, who are full time employees of the TTC, the ATU, or the PFS that have completed six months of continuous service, contribute a percentage of contributory earnings to the Pension Fund (the “Fund”) and the Employers contribute an equal amount to the Fund. The Board sets the contribution rates, subject to the funding requirements determined in the actuarial report and subject to limitations in the Sponsor’s Agreement.

2017 Highlights

Market Value of Plan Assets as at (Jan. 1)



97%

Funded
On a going concern basis

9.7%

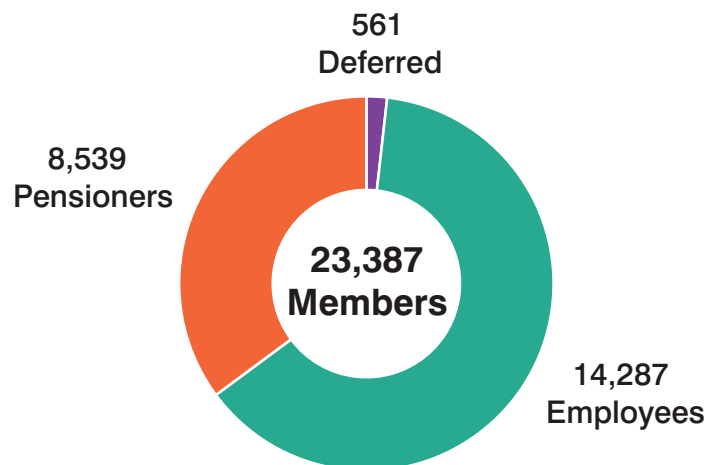
2017 net rate of return
versus 9.7% benchmark return

9.6%

5 year annualized net return
versus 8.8% benchmark return

\$583 million

2017 investment income



Average Retirement Age

60.0

Average Pensioner Age

71.0

Average Pension

\$31,700

613

Members electing
retirement in 2017

3,582

Online pension
estimates

447

Pre-retirement
seminar attendees

100%

of Members rate the pre-retirement
seminars as very good or good

Message from the Board



The TTC PFS Board is comprised of ten members, five of whom are appointed from the ATU and five from TTC management. This governance model means that the Toronto Transit Commission and Members have equal say on Plan decisions. Members and the TTC are involved in, and responsible for, decisions about funding and approval of benefit improvements, including base-year updates and pensioner increases.

Our top priority is to protect the sustainability of the Plan for both current and future pensioners. We never lose sight of the fact that TTC PFS Members depend on the Plan to pay pensions today and preserve pensions for tomorrow. That's why the TTC PFS Board reviews in detail the financial position of the Plan to determine if it's fiscally responsible and affordable to approve cost of living increases for pensioners or updates to the base-year calculation. This process highlights one of the core strengths of the PFS plan design: equal risk sharing by employers and employees. This has proven to work reliably over time as we enter our 78th year of operations.

Funded Status

As of January 1, 2018 the Plan has a funded status of 97%. This was based on continued strong investment portfolio returns and strong cost control features and risk management focus. The positive results of our investment portfolio have allowed the Board to approve a base-year update and 1.56% pensioner increase. Active Members and 2018 retirees will now have their pensionable earnings and credited service up to December 31, 2017 included in the base period for calculation of the pension benefit. The benefit improvements, while approved by the Board, are based on confirmation from the PFS's external actuary that the Plan has sufficient assets available to cover the cost of those benefits.

Since 2011, the Plan has been able to afford steady increases to the base period which have brought the base year fully up-to-date. This is a noteworthy accomplishment, however, as a reminder; there is no contractual obligation to provide benefit improvements. As you know, on an annual basis, the Board assesses affordability of benefit improvements, including pension indexing, and grants them at their discretion. Future enhancements are not guaranteed.

Board Continues to Enhance its Strong Governance Model

The Sponsors of the TTC Pension Fund Society, the TTC and ATU Local 113, along with the Board are committed to prudent management of the PFS. Several considerable improvements to the PFS governance structure have been made in recent history:

- In 2011, the PFS converted to a Jointly Sponsored Pension Plan (JSPP), where plan members and the TTC have an equal say on matters that impact current and future pensioners;
- In 2016, the Board hired an independent CEO to manage the day-to-day affairs of the PFS, reporting directly to the Board; and
- In 2018, the Board approved amendments to the Plan Bylaws that will empower the Board to retain additional staff directly.

These changes are designed to transition the PFS to an independent pension organization that will give the Board full control over its evolving organizational needs. The responsibility for day to day administration, including office space, pension staff hiring, and salary administration will rest with the PFS CEO, who is directly accountable to the Board. This change marks a significant organizational enhancement and has important advantages over the current organizational structure. It will ensure that the PFS continues to confidently and systematically meet its fiduciary obligations through adequate staffing and resourcing. It will also enable the PFS to continue its prudent management and administration of pension assets, and to continue to deliver service in a manner that is consistent with a best-in-class pension organization.

JSPP: A Model for Strong Governance

The Board is ultimately responsible for the oversight, administration and investments of the Plan. In doing so, we are continually monitoring manager performance, funded status of the PFS, and Plan expenses incurred while ensuring our strong governance policies and procedures are being adhered to. The Board's fiduciary duty is to ensure that all of these factors are taken into consideration in order to act in the best interest of our Members. The fiduciary responsibility is balanced by the Board's composition, by having equal representation from both the ATU 113 and the TTC. This governance structure is a model of teamwork and common purpose; both our current and former Board members have contributed to the PFS health and success by assessing challenges and making required adjustments.

In 2017 the Board has welcomed Tara Bal and Megan MacRae from the TTC and Rick Fox and Cliff Piggott from the ATU, Local 113 as Directors.

Along with the rest of the PFS Board, we wish to recognize the hard work of our staff and to thank them for their continued support in delivering the outstanding service that Members expect. With the staff, led by Sean Hewitt, Cheryl Uroda and James Clarkson, the team remains committed to delivering the Pension Promise: Keeping your pension stable and secure for current and future pensioners.

Sincerely, TTC Pension Fund Society
Board of Directors

Directory

Board of Directors

(December 31, 2017)

Frank Grimaldi (President)

Orest Kobylansky (Vice-President)

Tara Bal

Rick Fox

Scott Gordon

Brian Leck

Megan MacRae

Kevin Morton

Gemma Piemontese

Cliff Piggott

Stephen Conforti (TTC Observer)

John DiNino (ATU Local 113 Observer)

Investment Sub-Committee

Orest Kobylansky (Chair)

Tara Bal

Frank Grimaldi

Cliff Piggott

James Knowles (external)

Governance Sub-Committee

Kevin Morton (Chair)

Scott Gordon

Brian Leck

Gemma Piemontese

External Advisor

James Knowles

Pension Management Staff

Sean Hewitt, Chief Executive Officer

Cheryl Uroda, Corporate Secretary

James Clarkson, Treasurer

Actuary

Scott Clausen, Mercer

Auditor

PricewaterhouseCoopers

Custodian

Northern Trust

Message from the CEO



Sean Hewitt
Chief Executive Officer
TTC Pension Fund Society

The TTC Pension Fund Society has been delivering on our Pension Promise for over 75 years and we are committed to continue to deliver on that promise well into the future.

2017 was another positive year – our net investment return exceeded the actuarial rate, which has further improved the financial health of the PFS. When we manage our plans assets, we need to keep in mind that the contributions that we receive from a TTC operator today while they are in their 20s or 30s will be used to deliver pension payments to that person as a pensioner while they are in their 80s and 90s.

Employing a long-term approach to pension plan management enables us to keep our sights on the horizon to deliver our pension promise long into the future. Of course, we fully expect, and anticipate that certain periods in the future will be characterized by challenging short term performance due to slow economic growth, market volatility and heightened geopolitical risks. Despite some of these varied challenges in 2017 the PFS has been able to generate another year with positive results. The Fund earned 9.7% after fees for the year ending December 31st with Plan assets increasing by approximately \$500 million to \$6.6 billion at year end.

We maintained our funded status at 97% on a going concern basis. Consistent with our long term track-record, the Plan has earned an annualized return of 9.6% after fees, over the last 5 years which has exceeded our Plan benchmark return by 0.8% annually.

This strong financial position has allowed the PFS Board the ability to approve valuable increases to Member benefits. The Board approved a base year update to include December 31, 2017, effective January 1, 2018, and an ad-hoc pensioner increase of up to 1.56%. The pensioner increase is the maximum permitted by Canadian tax law for new retirees and is equal to the change in the Consumer Price Index (CPI) published by Statistics Canada.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sean Hewitt', written in a cursive style.

Sean Hewitt
Chief Executive Officer
TTC Pension Fund Society

Investment Management

The management of our investment portfolio is executed in accordance with the PFS Statement of Investment Policies and Procedures (the Investment Policy). The Investment Policy is reviewed, updated and approved by the Board annually. It sets objectives, guidelines and standards to assist the Plan's staff, investment managers and advisors to carry out the directives set by the Board.

The Investment Policy provides a framework for managing the Plan's assets in relation to its pension liability, within a tolerable level of risk. The investment portfolio is diversified across cash and fixed income investments, Canadian and foreign equity investments, and alternative investments including real estate, infrastructure, hedge funds, private debt and private equity.

The Plan's assets grow through your contributions, matching employer contributions, and investment earnings. The primary investment objective is to grow the assets more than the pension liability over time. This improves the Plan's overall financial condition as measured by the Plan's funded status. When the funded status improves, the ability to provide a base period update and pension indexing also improves.

Market Overview

Despite heightened geopolitical turmoil around the globe, economic growth continued to be positive. The year opened with enthusiasm over the pro-business agenda of the new Trump administration, but uncertainty surrounding trade and immigration policies loomed. Failed attempts at travel bans and healthcare reform, and a war of words with North Korea pre-occupied President Trump. Washington politicians eventually pivoted to tax reform in the latter stages of the year and policymakers passed the highly anticipated legislation just before year-end. The Canadian economy exceeded expectations and was one of the standout economic performers in 2017. Solid employment gains and house price appreciation continued to fuel consumer spending in Canada.

Outside of North America, strong economic growth and continued easy monetary policy supported Europe and Japan stock markets. The European political climate was supportive of markets, highlighted by Emmanuel Macron (with a pro-euro, centrist agenda) winning the French presidential election in May. Japan's central bank has yet to move away from its ultra-accommodative negative interest rate policy. Oil hit a two-year high following an extended supply-cut agreement through the end of 2018.

Despite a hot streak for the Canadian economy, Canadian equities were one of the weaker performing markets in 2017 with the index posting a 9.1% gain for the year. The emerging markets index led the pack with a return of 28.4%, followed by International Equities' 16.9% and the U.S 14.0% return in Canadian dollars respectively.

Canadian interest rates remained volatile in 2017. The first half of the year saw a decline in the Canadian 10 Year Government Bond Yield from 1.72% to a low of 1.40% in June, followed by a dramatic increase through the summer, rising to 2.04% by the end of the year. After keeping a rate cut on the table through most of the first half of 2017, the BoC recognized Canada's strong macro-economic momentum and hiked overnight rates by 25bps in both July and September. These bond market moves narrowed the 2-year bond yield differential between the U.S. and Canada, and resulted in further Canadian dollar strength.

Building a Diversified Portfolio

At the PFS, we include a broad array of investments that can be summarized into three broad categories:

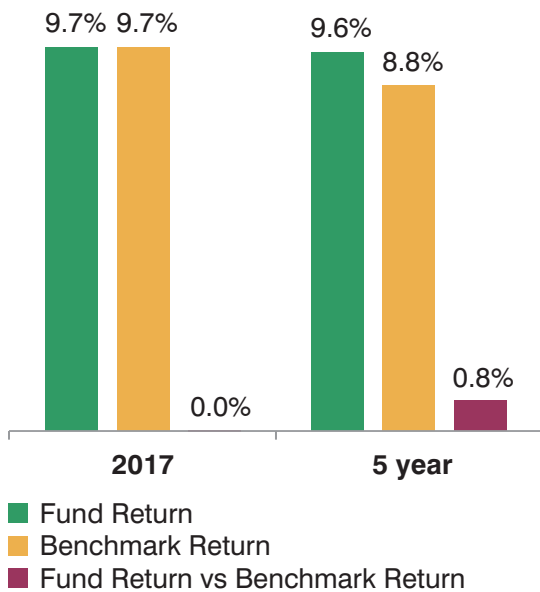
Growth Assets are investments that seek a higher return than Liability-Matching Assets, but are also characterized by higher volatility. Our growth asset portfolio contains Canadian and Non-Canadian Equities, Private Investments and Opportunistic Investments. Growth Assets are 40% of the total Plan.

Liability-Matching Assets are investments that reduce funded status volatility from year to year. They include interest rate sensitive investments in Canadian Government, Provincial and Corporate Bonds of a variety of maturities (short, medium and long). The policy weight for these investments is 46% of the total Plan.

Asset Type	Asset Class	Benchmark Index
Growth Assets (40%)	Canadian Equity	S&P/TSX Composite
	US Equity	S&P 500
	Non-North American Equity	MSCI EAFE
	Emerging Markets Equity	MSCI Emerging Markets
	Private Equity	Russell 2000
	Hedge Fund Secondaries	S&P 500
Liability Matching Assets (46%)	Cash and Cash Equivalents	91 Day T-bills
	Long Bonds	FTSE/TMX Long Bonds
	Universe Bonds	FTSE/TMX Universe Bonds
	Credit Bonds	FTSE/TMX Corporate Bonds
Real Assets (14%)	Infrastructure	FTSE/TMX Long Bonds +3%
	Real Estate	FTSE/TMX Long Bonds +3%

Real Assets are investments that share characteristics of both Liability Matching Assets and Growth Assets. They tend to offer higher long-term returns than bonds but generally don't have the volatility associated with Growth Assets while providing some protection against inflation. Our holdings in real estate and infrastructure are included in this category. Real Assets represent 14% of the Plan.

Return vs. Policy Benchmark

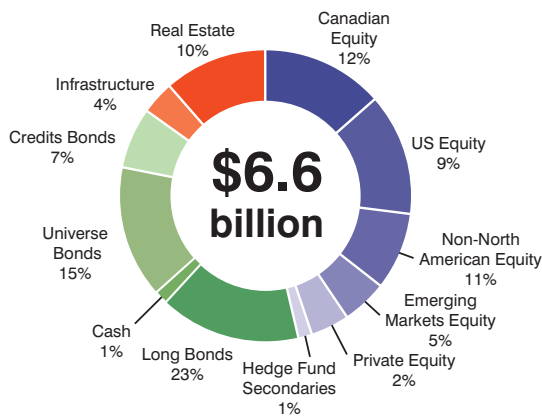


The 9.6% annualized return, net of investment management fees over the last 5 year period, outperformed the policy benchmark by 0.8%, generating \$213 million in added value

Assets in the Plan totaled \$6.6 billion at year end. The Plan delivered strong absolute investment performance in 2017 with a return of 9.7% after fees, matching the Plan benchmark, but outperforming the discount rate. Over the past five years, the plan has earned an annualized rate of return of 9.6%, outperforming the policy benchmark by 0.8% over the period, which has generated in added value of \$213 million over the last 5 years.

Asset Allocation

(December 31, 2017)



Asset Class	5 year returns	Benchmark
Canadian Equity	13.5%	8.6%
US Equity	21.4%	21.3%
Non-North American Equity	13.5%	13.1%
Emerging Markets Equity	11.7%	10.7%
Private Equity	11.2%	7.2%
Hedge Fund Secondaries	8.3%	21.3%
Long Bonds	4.8%	4.7%
Universe Bonds	4.4%	3.0%
Credit Bonds	5.3%	3.6%
Infrastructure	13.0%	7.7%
Real Estate	7.5%	7.7%
Total Fund Return	9.6%	8.8%

Benefits and Administration

Changes in Net Assets Available for Benefits

Net Assets Available for benefits totaled \$6.6 billion as at December 31, 2017, an increase of \$510 million over the year. Investment income, which is the sum of both realized and unrealized gains in the investment portfolio, totaled \$583 million. Benefits paid, modestly exceeded contributions by \$57 million.

	(\$ millions)
Net assets December 31, 2016	6,136
Investment Income	583
Contributions	234
Benefits paid	(291)
Investment and Administration Expenses	(16)
Net Assets December 31, 2017	6,646

Ten Year Review

(Unaudited)

	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Financials (\$M)										
Fixed Income & Cash	2,933	2,681	2,788	2,613	2,051	2,055	1,783	1,709	1,551	1,506
Equities	2,558	2,356	2,526	2,415	2,513	2,040	1,783	1,790	1,602	1,290
Alternatives	1,449	1,389	819	710	562	378	231	306	300	337
Investment Receivables	44	38	23	46	54	288	64	57	37	39
Investment Liabilities	(338)	(328)	(346)	(286)	(276)	(490)	(37)	(161)	(146)	(210)
Total Net Assets	6,646	6,136	5,810	5,498	4,904	4,271	3,825	3,701	3,344	2,962
Contributions	234	224	216	207	202	194	182	168	151	136
Investment Income (loss)	583	377	352	621	647	457	120	358	393	(518)
Benefit Payments	(291)	(258)	(239)	(216)	(200)	(188)	(166)	(158)	(152)	(147)
Expenses	(16)	(17)	(17)	(18)	(16)	(15)	(12)	(11)	(9)	(10)
Change in Net Assets	510	326	312	594	633	448	124	357	383	(539)
Membership										
Actives	14,287	14,091	13,686	13,237	13,013	12,767	12,690	12,572	12,400	11,681
Pensioners	8,539	8,091	7,699	7,375	7,092	6,824	6,562	6,300	6,134	6,018
Deferred	561	400	378	374	354	339	301	289	276	266
Total Members	23,387	22,582	21,763	20,986	20,459	19,930	19,553	19,161	18,810	17,965
Retirements	613	572	431	443	409	384	373	299	257	267

Numbers are rounded

Benefit Changes Approved By the Board

Benefit changes are approved by the PFS Board of Directors only when and to the degree that they are deemed actuarially affordable after consultation with the Plan's Actuary and careful consideration of long-term pension benefit affordability.

In May 2018 the Board had concluded its final meeting of the year with the Plan Actuary and after extensive analysis and discussions was able to approve the following changes in plan benefits:

- Pensioners will receive a retroactive ad hoc cost of living increase of up to 1.56% effective January 1, 2018;
- Effective January 1, 2018, the base period formula for calculating pension benefits will be the average of employees' best four years of pensionable earnings up to December 31, 2017; and
- In lock-step with this formula update, the survivor benefit date will be January 1, 2018.

The Canadian Income Tax Act does not permit the percentage increase in a pension in payment to be more than the cumulative percentage increase in the Consumer Price Index (CPI)

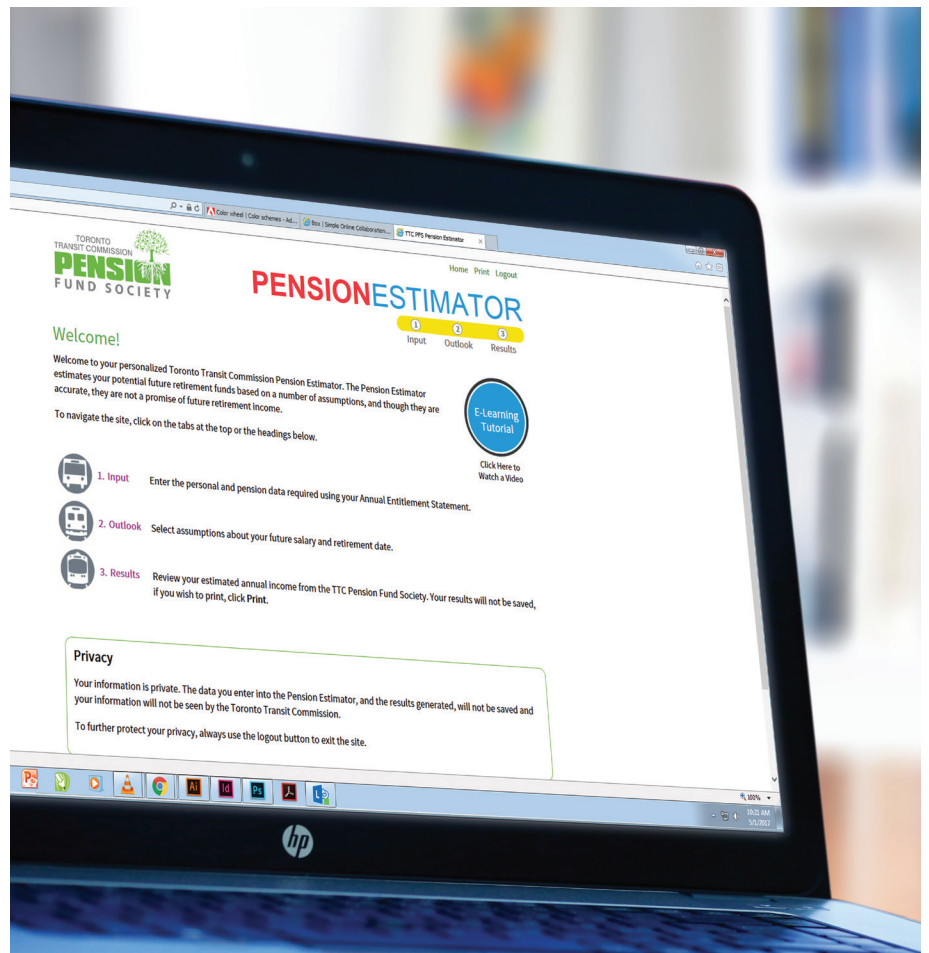
As stipulated in the PFS Bylaws, the Bylaw amendments to effect these improvements will be presented to the TTC Board for sanctioning before the AGM and will be presented to at the AGM for approval.

2018 Pre-Retirement Seminars

If you have never applied to attend a pre-retirement seminar and you would like to add your name to the waiting list, the qualification to do so is either 35 years of age or 10 years of service. At these sessions you will be provided useful retirement planning resources and information. Typically we hold 6 pre-retirement seminar sessions each year with approximately 75 attendees including spouses, 3 during the spring and 3 during the fall. This year's spring sessions were held in May and June. The fall 2018 seminar dates are: October 25 & 26, November 8 & 9, and November 15 & 16. If you are interested in attending, all we need to register you is your name, employee number, work location and whether your spouse/partner will be attending the seminar with you.

The seminars are two full days with lunch included and they provide information regarding your TTC pension plan, health benefits and life insurance available upon retirement, financial planning, budget and debt management, RRSP information, tax planning and estate planning. Attendance is limited to one time only and we believe the information provided is most beneficial to those employees who are approximately 10-15 years away from their retirement. To apply to attend a seminar you can complete an application form at your work location or on the intranet, email us at PFS@ttc.ca or call us at 416-393-4367 or 416-393-4368.

Please be advised your name must be on the waiting list to be eligible to attend. Your work location selects who attends based on date of application and availability. Once selected, the Pension Office will forward a confirmation letter to you indicating the date of your attendance, including location and other details.



Pension Estimator Tool

TTC employees can calculate their estimates by accessing the Estimator through the PFS Intranet (internal website) or via TheCoupler.ca home page link. You may be surprised to know that the pension you receive during your retirement will far exceed the contributions you make as a member.

The Pension Estimator lets you calculate as many estimates as you wish. Try out different scenarios to see the changes in your results. We recommend that you use the information provided to you in your most recent Annual Entitlement Statement to simplify your data entry and increase your accuracy. The statement provides a comprehensive summary of your membership, including annual earnings and pensionable service – two important factors that form the basis of your pension entitlement.

We encourage you to first watch the estimator tutorial to help you navigate through the process.

As always, the Pension Office is here to assist you with any questions you have. If you can't find your most recent Annual Entitlement Statement, just e-mail us at pfs@ttc.ca.

It's as easy as 1, 2, 3 - or should we say **Input, Outlook, Results!**

Contact Us

For general questions, please contact the TTC Pension Fund Society Office

1920 Yonge Street, 6th Floor, use North Elevators

Toronto Ontario

M4S 3E2

Phone: 1-800-663-6820

Fax: 416-338-0122

Email: pfs@ttc.ca

TORONTO TRANSIT COMMISSION - PENSION FUND SOCIETY

FINANCIAL STATEMENTS

DECEMBER 31, 2017

(IN THOUSANDS OF CANADIAN DOLLARS)

Actuaries' Opinion

Mercer (Canada) Limited was retained by the Board of the Toronto Transit Commission Pension Fund Society (the Society) to perform an actuarial valuation of the assets and Section 4600 accounting liabilities of the Society as at December 31, 2017, for inclusion in the Society's financial statements. We have completed such a valuation and provided our report to the Board.

The valuation of the Society's Section 4600 accounting liabilities was based on:

- Membership data as at January 1, 2017, supplied by the Society and used to extrapolate valuation results to December 31, 2017,
- Methods prescribed by Section 4600 of the CPA Canada Handbook – Accounting for pension plan financial statements, and
- Assumptions about future events (including mortality levels, future investment returns, and future pay levels), which have been developed by the Board with input from the actuaries and the auditors, and have been adopted by the Board as its best estimates for accounting purposes, in accordance with Section 4600 of the CPA Canada Handbook.

The valuation of the Society's assets was based on information provided by the Society.

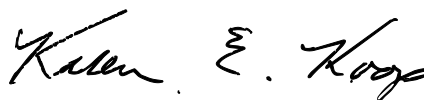
The objective of the financial statements is to fairly present the financial position of the Society on December 31, 2017, in accordance with accounting practices. This is very different from the statutory funding valuation required by the Pension Benefits Act to ensure that the Society meets the funding requirements for the benefits being provided. As a result, the valuation results presented in the financial statements and notes are not indicative of the Society's ability to meet its funding requirements or of the benefit levels which it is able to provide.

While the actuarial assumptions used to estimate liabilities for the Society's financial statements represent the Board's best estimate of future events and market conditions at the end of 2017, the Society'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 and losses in future valuations.

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



Scott Clausen
Fellow of the Society of Actuaries
Fellow of the Canadian Institute of Actuaries
May 10, 2018



Karen E. Koop
Fellow of the Society of Actuaries
Fellow of the Canadian Institute of Actuaries
May 10, 2018



May 10, 2018

Independent Auditor's Report

To the Board of Directors of Toronto Transit Commission Pension Fund Society

We have audited the accompanying financial statements of Toronto Transit Commission Pension Fund Society, which comprise the statement of financial position as at December 31, 2017 and the statements of changes in net assets available for benefits and changes in pension benefit obligations for the year then ended, and the related notes, which comprise a summary of significant accounting policies and other explanatory information.

Management's responsibility for the 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.

*PricewaterhouseCoopers LLP
PwC Tower, 18 York Street, Suite 2600, Toronto, Ontario, Canada M5J 0B2
T: +1 416 863 1133, F: +1 416 365 8215*

"PwC" refers to PricewaterhouseCoopers LLP, an Ontario limited liability partnership.



Opinion

In our opinion, the financial statements present fairly, in all material respects, the financial position of Toronto Transit Commission Pension Fund Society as at December 31, 2017 and the changes in its net assets available for benefits and the changes in its pension benefit obligations for the year then ended in accordance with the Canadian accounting standards for pension plans.

PricewaterhouseCoopers LLP

Chartered Professional Accountants, Licensed Public Accountants

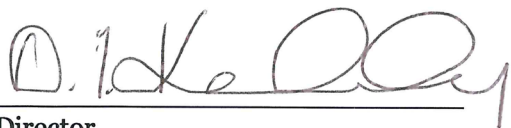
Toronto Transit Commission Pension Fund Society

Statement of Financial Position

As at December 31, 2017

(in thousands of Canadian dollars)

	2017 \$	2016 \$
Assets		
Cash	30,507	36,345
Investments (note 3)	6,909,062	6,390,093
Investment-related receivables (note 3)	23,791	19,336
Contributions receivable		
Members	17,141	16,117
Employers	2,038	1,172
Other assets	1,039	1,098
	<u>6,983,578</u>	<u>6,464,161</u>
Liabilities		
Investment-related liabilities (note 3)	321,601	313,317
Other liabilities (note 6)	15,698	15,048
	<u>337,299</u>	<u>328,365</u>
Net Assets Available for Benefits	6,646,279	6,135,796
Pension benefit obligation (note 7)	5,274,719	5,321,178
Surplus	<u>1,371,560</u>	<u>814,618</u>



Director



Director

The accompanying notes are an integral part of these financial statements.

Toronto Transit Commission Pension Fund Society

Statement of Changes in Net Assets Available for Benefits

For the year ended December 31, 2017

(in thousands of Canadian dollars)

	2017 \$	2016 \$
Increase in net assets available for benefits		
Investment income (note 9)	180,447	194,358
Net increase in fair values of investments (note 9)	403,062	183,204
Contributions		
Members	116,463	111,563
Employers	117,034	112,398
	<u>817,006</u>	<u>601,523</u>
Decrease in net assets available for benefits		
Benefit payments		
Pension benefits	265,926	242,100
Death benefits	6,513	8,075
Termination refunds	15,687	8,153
Marriage breakdown	2,662	642
Investment and Plan administration expenses (note 10)	15,735	16,670
	<u>306,523</u>	<u>275,640</u>
Increase in net assets available for benefits during the year	510,483	325,883
Net assets available for benefits - Beginning of year	<u>6,135,796</u>	<u>5,809,913</u>
Net assets available for benefits - End of year	<u>6,646,279</u>	<u>6,135,796</u>

The accompanying notes are an integral part of these financial statements.

Toronto Transit Commission Pension Fund Society

Statement of Changes in Pension Benefit Obligations

For the year ended December 31, 2017

(in thousands of Canadian dollars)

	2017 \$	2016 \$
Pension benefit obligation - Beginning of year	5,321,178	5,024,589
Benefits accrued	173,932	167,307
Benefits paid	(290,788)	(258,970)
Interest accrued on benefits	298,401	282,933
Changes in actuarial assumptions	(317,965)	-
Experience losses	14,201	23,488
Plan amendments	75,760	81,831
Net increase (decrease) in pension benefit obligation	(46,459)	296,589
Pension benefit obligation - End of year (note 7)	5,274,719	5,321,178

The accompanying notes are an integral part of these financial statements.

Toronto Transit Commission Pension Fund Society

Notes to Financial Statements

December 31, 2017

(in thousands of Canadian dollars)

1 Description of the Plan

The following description of the pension plan operated by the Toronto Transit Commission Pension Fund Society (the Plan) is a summary only. For more complete information, reference should be made to the bylaws of the Plan.

General

The Plan commenced operations on January 3, 1940 as a corporation pursuant to letters patent under Part XVI of the Corporations Act of the Province of Ontario. The Board of Directors (the Board), which consists of ten voting members, five of whom are appointed from the Toronto Transit Commission (TTC) and five of whom are appointed by Amalgamated Transit Union Local 113 (ATU), administers the affairs of the Plan. Pursuant to the Sponsors' Agreement between ATU and TTC (the Sponsors), the Plan is registered as a Jointly Sponsored Pension Plan (JSPP) effective January 1, 2011.

The Plan covers substantially all employees of the TTC and ATU who have completed six months of continuous service. Under the Plan, contributions are made by members and matched by their employers. The Plan is registered with the Financial Services Commission of Ontario (FSCO), under the Pension Benefits Act of the Province of Ontario (PBA) and the Income Tax Act (Canada) (registration number 0317586) and, therefore, is exempt from taxation on its income under Part I of the Income Tax Act (Canada). The Plan may be liable for taxes in other jurisdictions where full tax exemptions are not available.

The Plan is a defined benefit plan. The Board sets the employer and employee contribution rates, subject to the funding requirements determined in the actuarial report and subject to limitations in the Sponsors' Agreement between the ATU and TTC. Members' benefits are determined using a modified career average formula based on pensionable earnings and years of credited service. Plan improvements, including increases to the career average base period and pension indexing may be adopted by the Board. Improvements may be granted if affordable, taking into account the Plan's funded status.

Funding

The Plan is funded by contributions and investment earnings. The Board has adopted a Funding Policy that aims to achieve long-term funding stability, with the objective of supporting benefit levels higher than the contractual benefits, including base period updates and pension increases as stipulated in the bylaws. Actuarial funding valuations are conducted to determine the pension liabilities, the funded position and the contribution rates of the Plan.

Contributions

In 2017, each member employed by the TTC and ATU contributed 9.25% (2016 - 9.25%) of their earnings to the Plan up to the year's maximum pensionable earnings (YMPE) of \$55,300 (2016 - \$54,900) and 10.85% (2016 - 10.85%) of earnings above the YMPE. The TTC and ATU contributed an amount equivalent to each member's annual contribution.

Toronto Transit Commission Pension Fund Society

Notes to Financial Statements

December 31, 2017

(in thousands of Canadian dollars)

The Board or the Sponsors, establish and maintain a contribution rate for members. The Board establishes and maintains the contribution rate for members, within an upper and lower limit. The limits are defined in the Memorandum of Agreement, dated May 27, 2011, which established the Plan as a JSPP. A contribution rate outside of this corridor must be approved by the Sponsors.

The TTC is also obligated to make contributions for certain early retirement benefits after 29 years of service and some temporary supplements. These payments are indefinite and are adjusted based on the most recent actuarial valuation filed.

Benefits

Pensions are payable from the Plan based primarily on years of credited service and members' highest four-year career average pensionable earnings up to the current base period-end date December 31, 2016 (2016 - December 31, 2015). The benefits provided are those that can be actuarially supported by the Plan's assets and the contributions to the Plan based on funding requirements specified in the PBA and priorities outlined in the bylaws.

Death benefits, marriage breakdown and lump sum payments on termination before eligibility for retirement are also available from the Plan. Death benefits may take the form of a survivor pension or lump-sum payments.

2 Summary of significant accounting policies

Basis of accounting and adoption of Canadian accounting standards for pension plans

These 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) and the relevant sections of the Canadian accounting standards for private enterprises (ASPE) in the CPA Canada Handbook. The financial statements also include current disclosure requirements outlined by FSCO, under Index No. Financial Statement Guidance Note (FSGN)-100.

These financial statements are prepared on a going concern basis and present the information of the Plan as a separate financial reporting entity independent of the Sponsors and members.

Policy for items not related to investment portfolio or pension obligation

The Plan's accounting policies not related to the investment portfolio or pension obligation are based on ASPE.

Investment assets and investment liabilities

Investment assets and investment liabilities are recorded at fair value in accordance with International Financial Reporting Standard (IFRS) 13, Fair Value Measurement. Purchases and sales of investments are recorded as of the trade date (the date on which the substantial risks and rewards have been transferred). Transactions that have not been settled are reflected in the statement of financial position as investment-related receivables/liabilities.

Toronto Transit Commission Pension Fund Society

Notes to Financial Statements

December 31, 2017

(in thousands of Canadian dollars)

Subsidiaries and affiliates

The Plan does not consolidate investment related subsidiaries and affiliates; all investment related units are recorded at fair value.

Fair values

The fair values of the investments are determined as follows:

- cash includes both cash and cash equivalents and is valued at cost;
- short-term investments are valued at cost, which together with accrued income, approximates fair value;
- bonds are valued based on quoted market prices obtained from independent third party pricing sources; where quoted market prices are not available, estimated values are calculated using discounted cash flows based on current market yields for comparable securities;
- securities sold under agreements to repurchase are valued using discounted cash flows based on current market yields;
- publicly traded Canadian and non-Canadian stocks are valued at the closing price on the applicable stock exchange;
- real estate property values are generally based on estimated fair values determined through independent annual appraisals of the property or the adjusted acquisition price in the year of purchase; the associated mortgages payable are measured at amortized cost, which approximates fair value;
- infrastructure, private equity, private debt and hedge fund investments are valued by the general partner based on the most appropriate industry valuation models applied on an investment by investment basis;
- the investment values of pooled funds and funds of hedge funds are supplied by the fund administrators based on fair value quotations or appraisals, as appropriate; and
- exchange traded derivatives, such as futures, are valued at quoted market prices; for other derivative financial instruments, where market prices are not available, appropriate valuation techniques are used to estimate fair values.

Investment income

Dividend income is recognized based on the ex-dividend date and interest income is recognized on the accrual basis as earned.

Net realized gain (loss) on sale and settlement of investment assets and investment liabilities during the year represents the difference between sale or settlement proceeds and cost. The net change in unrealized gains (losses) on investment assets and investment liabilities represents the change in the difference between the fair value and cost of investment assets and investment liabilities at the beginning and end of the year. All realized

Toronto Transit Commission Pension Fund Society

Notes to Financial Statements

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(in thousands of Canadian dollars)

and net changes in unrealized gains and losses on investment assets and investment liabilities are recorded in the statement of changes in net assets available for benefits in the year in which they occur.

Foreign currency translation

Transactions denominated in foreign currencies are translated into Canadian dollars at the rates of exchange prevailing at the dates of the transactions. Assets and liabilities denominated in foreign currencies are translated at the rates in effect at year-end. The resulting realized and unrealized gains or losses are included in the net change in the fair value of investments.

Pension benefit obligation

Valuation of the pension benefit obligation 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 based on data as at the beginning of the year extrapolated to the year-end. It uses the projected benefit method pro-rated on service and the Board's best estimate of various economic and non-economic assumptions. The discount rate reflects the best estimate of the long-term expected return on plan assets.

Contributions

Contributions from members and employers due to the Plan at year-end are recorded on an accrual basis. Contributions for past service purchases are recorded when received. Cash transfers from other pension plans are not permitted.

Benefits

Benefits paid to pensioners are recorded in the year in which they are due. Refunds to former members and the estates of deceased members are recorded in the year in which they are paid. Refunds attributable to the current year but paid after year-end are reflected in accrued pension benefits.

Administrative expenses

Administrative expenses incurred are paid directly from the Plan and are treated as expenses in these financial statements. Expenses include, but are not limited to, actuarial fees, legal fees, special expenses approved by the Board, trust fees, fiduciary insurance, custody fees, investment management and investment consulting charges. Other administration expenses, including most salaries, office expenses, and other overhead are borne by the TTC.

Use of estimates

The preparation of financial statements in accordance with Canadian accounting standards for pension plans requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of increases and decreases in net assets available for benefits during the reporting period. Estimates and assumptions are evaluated on an ongoing basis and take into account historical experience and other factors, including expectations of future events that are believed to be reasonable and relevant under the

Toronto Transit Commission Pension Fund Society

Notes to Financial Statements

December 31, 2017

(in thousands of Canadian dollars)

circumstances. Significant estimates are used, primarily in the determination of the pension obligation and the fair value of certain investments. Note 7 explains how estimates and assumptions are used in determining accrued pension benefits. Note 4 explains how estimates are used to determine the fair value of investments. Actual results could materially differ from those estimates.

3 Investments

The Plan invests, directly or through derivatives, in fixed income, equities or alternative investments in accordance with the Statement of Investment Policies and Procedures (SIPP).

The following schedule summarizes the Plan's investments and investment-related receivables and liabilities before allocating the effect of derivative financial instruments:

	2017		2016	
	Fair value \$	Cost \$	Fair value \$	Cost \$
Investments*				
Fixed income				
Restricted cash	31,693	31,693	81,911	81,911
Invested cash	57,420	57,420	47,076	47,076
Short-term money market securities	185,926	185,157	118,655	117,876
Canadian bonds	2,297,505	2,240,997	2,070,836	2,003,925
Non-Canadian bonds	91,839	90,666	80,892	75,180
Funds of hedge funds	237,998	182,652	245,578	182,652
	<u>2,902,381</u>	<u>2,788,585</u>	<u>2,644,948</u>	<u>2,508,620</u>
Equities				
Canadian	897,563	573,157	862,685	558,915
Non-Canadian	1,660,458	1,182,700	1,493,156	1,174,851
	<u>2,558,021</u>	<u>1,755,857</u>	<u>2,355,841</u>	<u>1,733,766</u>
Alternative investments				
Real estate	642,871	517,519	702,358	596,963
US real estate	25,651	25,028	-	-
Infrastructure (note 12)	263,685	213,034	217,994	166,660
Hedge fund secondaries (note 12)	62,191	19,965	89,121	40,788
Private debts (note 12)	309,998	305,792	114,175	117,281
Private equity (note 12)	144,264	81,429	265,656	210,390
	<u>1,448,660</u>	<u>1,162,767</u>	<u>1,389,304</u>	<u>1,132,082</u>
	<u>6,909,062</u>	<u>5,707,209</u>	<u>6,390,093</u>	<u>5,374,468</u>
Investment-related receivables				
Derivative financial instruments receivable (note 5(b))	3,727	-	6,209	-
Pending trades	4,002	4,002	2,254	2,254
Accrued investment income	16,062	16,062	10,873	10,873
	<u>23,791</u>	<u>20,064</u>	<u>19,336</u>	<u>13,127</u>

Toronto Transit Commission Pension Fund Society

Notes to Financial Statements

December 31, 2017

(in thousands of Canadian dollars)

	2017		2016	
	Fair value \$	Cost \$	Fair value \$	Cost \$
Investment-related liabilities				
Bonds sold under repurchase agreements	316,791	316,791	306,133	306,133
Derivative financial instruments payable (note 5(b))	443	-	2,312	-
Pending trades	4,367	4,367	4,872	4,872
	<u>321,601</u>	<u>321,158</u>	<u>313,317</u>	<u>311,005</u>
	<u>6,611,252</u>	<u>5,406,115</u>	<u>6,096,112</u>	<u>5,076,590</u>

* Includes investments in pooled funds, details of which are provided in note 11(c). The margin account balance as of December 31, 2017 is \$31.7 million (2016 - \$81.9 million).

4 Financial risk management

Capital management

The capital of the Plan is represented by the net assets available for benefits less the statutory actuarial valuation referred to in note 7. The objective of managing the Plan's capital is to ensure it is fully funded and sufficient assets are available to pay for the benefit obligations over the long term. The Board manages the Plan's capital by mandating an annual actuarial valuation on both the going concern and solvency bases to determine the Plan's funded status. Based on the results of this valuation and the priorities set out in the Plan's bylaws and the funding policy, the Board makes decisions with respect to pension formula updates, pension indexing and Plan improvements. Investments and the use of derivatives are based on an asset mix that is projected to enable the Plan to meet or exceed its long-term funding requirements, within an acceptable level of risk, consistent with the Plan's SIPP approved by the Board.

The Plan's administrator has adopted a SIPP that states investment objectives, guidelines and benchmarks used in investing the capital of the Plan, permitted categories of investments, asset-mix diversification and rate of return expectations. The SIPP is typically reviewed and approved by the Board annually and the last amendment, which was effective December 31, 2016, was approved by the Board on February 24, 2017. The significant amendments included changes made to refine the Fund's interim target asset mix.

The Plan's investment objective, outlined in the SIPP, is to achieve a long-term rate of return that equals or exceeds the Plan's going concern liability growth rate, consistent with available market opportunities, and at acceptable levels of expected investment risk. The current estimated current growth rate, inherent in the CPA Canada Handbook Section 4600 valuation, is 6.0% (2016 - 5.5%).

The Plan's investment portfolio is subject to various risks, which may adversely affect its income, cash flows and net assets available for benefits. These risks include market risk (including foreign currency risk, interest rate risk and equity price risk), credit risk and liquidity risk. The Plan manages investment-related risks through the SIPP, which establishes long-term asset mix policies for the investment portfolio as a whole. This promotes investment diversification and limits exposure to individual investments, major asset classes, geographic markets and currencies. The long-term policy also specifies a target weighting for matching assets, which are

Toronto Transit Commission Pension Fund Society

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December 31, 2017

(in thousands of Canadian dollars)

expected to have a relatively high correlation with the Plan's actuarial liability. It also establishes mandate-specific policies for each investment manager of the Plan. The investment managers' compliance with the policies is confirmed quarterly.

Asset categories	Index Benchmark	2017		2016	
		Portfolio weight year-end %	Asset mix policy target weight %	Portfolio weight year-end %	Asset mix policy target weight %
Fixed income	Composite	46.1	42.0	38.5	42.0
Cash and overlay	FTSE TMX 91-day T-Bill	1.4	3.0	3.5	3.0
Long-term bonds	FTSE TMX long-term	23.2	21.0	16.4	21.0
Universe bonds	FTSE TMX Universe	15.0	8.0	11.8	8.0
Credit bonds	FTSE TMX Universe Corporate	6.5	10.0	6.8	10.0
Equities	Composite	36.6	36.0	40.6	36.0
Canadian	S&P/TSX Composite	11.9	12.0	13.5	12.0
US ¹	S&P 500	8.7	9.0	13.5	9.0
Non-North American ¹	MSCI Europe, Australia, Far East	11.0	10.0	8.6	10.0
Emerging markets	MSCI Emerging Markets	5.0	5.0	5.0	5.0
Private equity	Russell 2000	2.2	4.0	4.3	4.0
Real estate	FTSE TMX Long Term Bonds + 3%	10.2	11.0	11.5	11.0
Infrastructure	FTSE TMX Long Term Bonds + 3%	4.0	5.0	3.6	5.0
Hedge funds secondaries	FTSE TMX Long Term Bonds + 3%	0.9	2.0	1.5	2.0
Total portfolio	Composite	100.0	100.0	100.0	100.0

¹⁾ Index expressed in CAD used as basis for manager evaluation. Index quarter-hedged into CAD in total portfolio and total equities benchmarks.

a) Market risk

Market risk is the risk of loss from changes in equity, interest and foreign exchange rates, and credit spreads. Changes are caused by factors specific to the individual investment or factors affecting all securities traded in the market.

The Plan mitigates market risk through diversification of its investment portfolio, across industry sectors, investment strategies and on a geographic basis, based on asset and risk limits established in the SIPP and through the use of derivative financial instruments.

- Currency risk

Currency risk arises from the Plan's exposure to foreign currency-denominated assets. Fluctuations in the value of the Canadian dollar relative to foreign currencies may significantly increase or decrease the Plan's fair value and returns.

The Plan invests in assets denominated in foreign currencies other than the Canadian dollar in order to improve its risk and return profile. The Plan's currency hedging policies are designed to limit the overall impact of currency fluctuations on Plan returns.

Toronto Transit Commission Pension Fund Society

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December 31, 2017

(in thousands of Canadian dollars)

The Plan's currency managers passively hedge 25% of US dollar denominated equity, 50% of other developed market foreign equity currency exposures and 75% of funds of hedge funds.

The following schedule summarizes the Plan's currency exposure, net of foreign exchange forward contracts used in the passive and active currency programs:

	Net currency exposure*	
	2017	2016
	\$	\$
United States dollar	1,334,395	1,808,066
Hong Kong dollar	69,735	71,499
British pound sterling	65,006	40,573
Swiss franc	12,731	3,578
Euro	92,249	20,171
Japanese yen	10,784	(20,795)
Australian dollar	7,439	(9,026)
Swedish krona	3,471	1,092
Other	230,984	160,509
	1,826,794	2,075,667

* Includes pooled funds

The following sensitivity analysis summarizes the impact on the Plan's net assets available for benefits, following a reasonably possible 5% change in foreign currency exchange rates, with all other variables and underlying values held constant, for each currency to which the Plan has a significant exposure:

	Changes in net assets available for benefits*	
	2017	2016
	\$	\$
United States dollar	66,720	90,403
Hong Kong dollar	3,487	3,574
British pound sterling	3,250	2,029
Swiss franc	637	179
Euro	4,612	1,009
Japanese yen	539	(1,040)
Australian dollar	372	(451)
Swedish krona	174	55
Other	11,549	8,025
	91,340	103,783

* Includes pooled funds

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December 31, 2017

(in thousands of Canadian dollars)

- Interest rate risk

Interest rate risk is the effect that changing interest rates have on both the market value of both the Plan's assets and liabilities. The value of the Plan's net assets available for benefits, are affected by short-term changes in nominal interest rates. The pension benefit obligation is impacted by fluctuations in long-term nominal and real interest rates.

The Plan administrator views interest rate risk on interest bearing financial instruments as a hedge that offsets the larger interest rate risk on pension benefit liabilities. In order for this offset to significantly reduce the overall level (on assets and pension benefit liabilities) of the Plan's interest rate risk, the SIPP has a target of 21% (2016 - 21%) of its holdings to be held in interest bearing financial instruments with long maturities.

The following sensitivity analysis summarizes the impact on the Plan's net assets available for benefits following a reasonably possible change in interest rates for all maturities (a parallel shift in the yield curve).

	Interest rates	Change in net assets available for benefits*	
		2017 \$	2016 \$
Interest bearing financial instruments	+ / -1%	280,018	225,914

* Includes pooled funds

As at December 31, 2017, assuming all other factors remain constant, a 1% decrease in the assumed long-term rate of return on assets would result in the pension benefit obligation increasing by 13.1% (2016 - 14.0%) or \$690.0 million (2016 - \$744.3 million).

- Equity prices risk

Equity price risk is the risk that the fair value of equities decreases as a result of changes to their related indices.

The following sensitivity analysis summarizes the impact on the Plan's net assets available for benefits, following reasonably possible changes in equity prices for each stock market benchmark to which the Plan has a significant exposure.

Toronto Transit Commission Pension Fund Society

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December 31, 2017

(in thousands of Canadian dollars)

	Stock benchmark	Change in index value	2017* \$	2016* \$
Canadian equities	S&P/TSX Comp	+/-10%	84,503	78,880
Non-Canadian equities	various	+/-10%	183,920	156,501
			<u>268,423</u>	<u>235,381</u>

* Includes pooled funds

b) Credit risk

Credit risk is the loss potential associated with a counterparty's inability or unwillingness to fulfill its contractual obligations.

In order to mitigate against losses associated with credit risk, the Plan adheres to investment policies that require:

- having a minimum rating of R1 "low" by DBRS or equivalent for all cash and short-term investments;
- limiting the maximum exposure to bonds issued or guaranteed by any one non-governmental entity or group of affiliated entities to 5% of the fair value of the total fixed income portfolio held by the Plan;
- limiting the maximum exposure to non-investment grade bonds (defined as below BBB - or equivalent) to 10% of the fixed income portfolio held by the Plan;
- dealing with counterparties to derivative transactions that have credit quality of no less than an A rating;
- securities lent will be secured by initial collateral of no less than 102%;
- entering into International Swaps and Derivative Association Inc. agreements with over-the-counter derivative counterparties to limit the Plan's exposure to credit losses;
- entering into derivative financial instruments only on an unlevered basis; and
- where feasible, directing managers to enter into master netting arrangements.

Credit risk on equity and bond futures is minimal as the counterparty to every futures trade is a clearing corporation, which acts as a third party that matches trades and collects and maintains margins. These contracts are marked-to-market and margin receivables and payables are settled in cash daily.

Toronto Transit Commission Pension Fund Society

Notes to Financial Statements

December 31, 2017

(in thousands of Canadian dollars)

The following are the interest bearing financial instruments, the exposure to credit risk and the Plan's share of it.

	AAA* \$	AA \$	A \$	BBB \$	R1 or Equiv \$	Non-inv. grade/ unrated \$	Total \$
December 31, 2017**	617,369	692,894	565,507	184,512	1,130	353,910	2,415,322
December 31, 2016**	518,257	508,935	582,446	184,295	2,445	374,083	2,170,461

* Includes cash balances from fixed income accounts and accrued interest

** Includes pooled funds

c) Liquidity risk

Liquidity risk is the risk the Plan may be unable to meet obligations associated with pension payments and/or financial liabilities that are settled by delivering cash or another financial asset.

Management of liquidity seeks to ensure that even under adverse conditions, the Plan has access to immediate cash that is necessary to cover benefits payable, withdrawals and other liabilities. The SIPP requires a significant portion of the Plan's investments to be highly liquid so they can be converted into cash on short notice. Typically, the employee and employer contributions will cover most of the benefit payment requirements. Therefore, the Plan's exposure to liquidity risk is considered negligible.

In order to meet short-term liquidity requirements, cash and short-term investments are available for \$305,545 (2016 - \$283,987). With the exception of the pension benefit obligation, all liabilities are current and due within one year.

In addition to cash and short-term investments, the bond holdings held also aid in managing liquidity risk and have the following maturities:

	1 year \$	1 - 5 years \$	5 - 10 years \$	10 - 20 years \$	20 years \$	Total \$
December 31, 2017*	40,905	489,525	315,916	509,343	1,059,633	2,415,322
December 31, 2016*	50,075	474,315	287,701	438,863	919,507	2,170,461

* Includes pooled funds

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(in thousands of Canadian dollars)

d) Fair value hierarchy

Financial assets and liabilities are measured at fair value and can be classified based on the method used to determine their valuation. The fair value hierarchy has the following three levels:

- Level 1 - fair value is based on quoted market prices in markets for identical financial assets or financial liabilities. Level 1 financial assets generally include equity investments traded in an active market.
- Level 2 - fair value is based on observable inputs, other than quoted prices included within Level 1, such as quoted market prices for identical financial assets or financial liabilities in markets that are not active and other inputs that are observable or can be corroborated by observable market data for substantially the full term of the financial assets or financial liabilities. Level 2 financial assets and financial liabilities generally include pooled funds, short-term money market securities, Government of Canada, provincial and other government bonds, Canadian corporate bonds and certain derivative financial instruments.
- Level 3 - fair value is based on inputs that are not supported by observable market data. Valuation methodologies are determined by the fund administrators and independent appraisers. Level 3 financial assets and financial liabilities include the funds of hedge funds, real estate, infrastructure, hedge fund secondaries investments, private debt and private equity investments.

The following table presents the level within the fair value hierarchy for each of the financial assets and financial liabilities measured at fair value. The table excludes other financial assets and financial liabilities that are valued at their carrying amount, which represents a reasonable approximation of fair value due to their short-term nature.

	2017			
	Level 1	Level 2	Level 3	Total
	\$	\$	\$	\$
Invested cash and short-term money market securities	89,113	185,925	-	275,038
Bonds*	-	2,072,554	-	2,072,554
Funds of hedge funds	-	-	237,998	237,998
Equities	2,558,021	-	-	2,558,021
Real estate	-	-	642,871	642,871
US real estate	-	-	25,651	25,651
Infrastructure	-	-	263,685	263,685
Hedge funds secondaries	-	-	62,191	62,191
Private debt	-	-	309,998	309,998
Private equity	-	-	144,264	144,264
Derivative financial instruments	-	3,284	-	3,284
Other investment-related assets and liabilities	-	15,697	-	15,697
	2,647,134	2,277,460	1,686,658	6,611,252

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	2016			
	Level 1	Level 2	Level 3	Total
	\$	\$	\$	\$
Invested cash and short-term money market securities	128,987	118,655	-	247,642
Bonds*	-	1,845,595	-	1,845,595
Funds of hedge funds	-	-	245,578	245,578
Equities	2,355,841	-	-	2,355,841
Real estate	-	-	702,358	702,358
Infrastructure	-	-	217,994	217,994
Hedge fund secondaries	-	-	89,121	89,121
Private equity	-	-	265,656	265,656
Private debt	-	-	114,175	114,175
Derivative financial instruments	-	3,897	-	3,897
Other investment-related assets and liabilities	-	8,255	-	8,255
	-	-	-	-
	2,484,828	1,976,402	1,634,882	6,096,112

* Bonds total is net of bonds sold under repurchase agreements of \$316,791 (2016 - \$306,133)

The following table summarizes the changes in the fair values of financial instruments classified in Level 3.

	Funds of hedge funds	Real estate	US real estate	Infrastructure	Hedge fund secondaries	Private equity	Private debt	Total
	\$	\$	\$	\$	\$	\$	\$	\$
Fair value - December 31, 2015	256,128	446,462	-	125,936	120,811	125,792	-	1,075,129
Total unrealized gains (losses)	(10,550)	21,707	-	(3,969)	(8,980)	(4,095)	(3,106)	(8,993)
Purchases (dispositions)	-	234,189	-	96,027	(22,710)	143,959	117,281	568,746
Fair value - December 31, 2016	245,578	702,358	-	217,994	89,121	265,656	114,175	1,634,882
Total unrealized gains (losses)	(7,580)	19,958	623	(684)	(6,107)	6,189	8,693	21,092
Reclassification of Investments	-	-	-	-	-	(134,058)	134,058	-
Purchases (dispositions)	-	(79,445)	25,028	46,375	(20,823)	6,477	53,072	30,684
Fair value - December 31, 2017	237,998	642,871	25,651	263,685	62,191	144,264	309,998	1,686,658

Investments that are classified as Level 3 have their fair values derived using valuation techniques. The values are provided by the general partner or other external manager and therefore, in the absence of specific information to support deviating from this value, no other reasonably possible alternative assumptions can be applied.

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Sensitivity to changes in assumptions

The following analysis demonstrates the sensitivity of several Level 3 valuations to potential changes in capitalization rates, discount rates or interest rates, where applicable. These sensitivities are hypothetical and in actual experience, the change in the key factor may be the result of changes in a number of underlying assumptions that could increase or decrease the effect on the valuation.

		As at December 31, 2017		
Asset type	Key factor	Fair value	+0.25%	-0.25%
		\$	\$	\$
Real estate	Capitalization rate	668,522	(27,183)	29,186
Infrastructure	Discount rate	263,685	(5,121)	5,357
Hedge fund secondaries	Discount rate	62,191	(123)	123
Private debt	Interest rate	309,998	(2,556)	2,575
Private equity	Discount rate	144,264	(952)	963
		1,448,660	(35,935)	38,204
		As at December 31, 2016		
Asset type	Key factor	Fair value	+0.25%	-0.25%
		\$	\$	\$
Real estate	Capitalization rate	702,358	(12,124)	13,783
Infrastructure	Discount rate	217,994	(5,385)	5,391
Hedge fund secondaries	Discount rate	89,121	(302)	304
Private debt	Interest rate	114,175	(905)	905
Private equity	Discount rate	265,656	(1,987)	2,005
		1,389,304	(20,703)	22,388

* The sensitivity analysis for the Fund of hedge funds has been excluded from the above table. The impact to the fair value of the investment is not practicable to determine given the underlying nature of the holdings.

5 Derivative financial instruments

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

a) Derivative products and investment objectives

The Plan enters into the following types of derivative financial instruments:

- Equity and bond futures

Futures contracts involve an agreement to buy or sell standardized amounts of equity or bond indices at a predetermined future date and price in accordance with the terms specified by a regulated futures

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exchange and are subject to daily cash margining. These contracts are purchased and/or sold with the primary objective of rebalancing the Plan's actual asset mix to closely align with that specified in the SIPP.

- Foreign exchange forward contracts

A foreign exchange forward contract is a customized agreement negotiated between two parties to buy or sell a specific amount of a foreign currency at a price specified at the origination of the contract, with settlement at a specified future date. Foreign exchange forward contracts are used to hedge the Plan's foreign currency risk.

b) Notional amounts

Notional amounts of derivative financial instruments represent the dollar value of the market exposure gained through the purchase/sale of a contract. Notional amounts are not recorded as financial assets or financial liabilities on the annual statements of financial position and accrued pension benefits and surplus. The aggregate notional amounts and fair values of derivative contracts can fluctuate significantly.

The following is a schedule of notional amounts and fair values of derivative financial instruments:

	2017		
	Notional amount \$	Fair value receivable \$	Fair value payable \$
Fixed income futures	585,484	-	-
Canadian equity futures	111,824	-	-
Non-Canadian equity futures	30,854	-	-
Foreign exchange forward contracts	1,971,293	7,483	(4,199)
			2016
	Notional amount \$	Fair value receivable \$	Fair value payable \$
Fixed income futures	6,876	-	-
Canadian equity futures	40,181	-	-
Non-Canadian equity futures	154,708	-	-
Foreign exchange forward contracts	2,465,254	15,286	(11,389)

Derivative financial instruments held by the Plan generally have at least quarterly resets and all settle within one year. Futures contracts settle on a daily basis with the same counterparty, and therefore no fair value is reflected.

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c) Net investments after allocating market exposure of derivative financial instruments

The following table summarizes the effective fair value of the Plan's investments after the allocation of market exposure of derivative financial instruments and investment-related receivables and liabilities:

	2017		2016	
	Effective net investments at fair value	Effective asset mix	Effective net investments at fair value	Effective asset mix
	\$	%	\$	%
Fixed income				
Invested cash and short-term money market securities*	(148,788)	(2.3)	138,391	2.3
Canadian bonds	2,566,199	38.9	1,771,579	29.1
Non-Canadian bonds	91,839	1.4	80,892	1.3
Funds of hedge funds	237,998	3.6	245,578	4.0
	2,747,248	41.6	2,236,440	36.7
Equities				
Canadian	785,739	11.9	822,504	13.5
Non-Canadian	1,629,605	24.6	1,647,864	27.0
	2,415,344	36.5	2,470,368	40.5
Real estate	668,522	10.1	702,358	11.5
Infrastructure	263,685	4.0	217,994	3.6
Hedge funds secondaries	62,191	0.9	89,121	1.5
Private debt	309,998	4.7	114,175	1.9
Private equity	144,264	2.2	265,656	4.3
	6,611,252	100.0	6,096,112	100.0

* For 2017, invested cash and short-term money market securities is negative as there was a larger derivative offset than in 2016.

6 Other liabilities

Other liabilities consist of the following:

	2017	2016
	\$	\$
Accrued pension benefits	11,264	10,228
Fees payable to custodian, investment consultants and other advisers	3,642	3,833
Other accounts payable	792	987
	15,698	15,048

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7 Pension benefit obligation

An estimate of the Plan's obligation for pension benefits has been made as at December 31, 2017 for inclusion in the Plan's financial statements by Mercer (Canada) Limited. The estimate is an extrapolation of the January 1, 2017 actuarial valuation based on membership data on that date, using the methods and assumptions summarized below.

Methods and assumptions

The valuation is based on the requirements outlined in Section 4600 of the CPA Canada Handbook - Accounting for pension plan financial statements. The estimated actuarial present value of accrued pension benefits is determined using the projected benefit method, pro-rated on service. The pension formula in effect in the Plan's bylaws, including the current base period (average of the four calendar years before 2016 with the highest average pensionable earnings) for credited service before 2016, is used to project the pension at retirement, without provision for future updates in the base period or other changes in the bylaws. The pro rata portion of the projected pension, which relates to past service, is then valued as the accrued pension.

Under note 1, description of the Plan, the Board has the authority to provide plan improvements, including increases to the career average base period and also for ad hoc pension indexing. The following amendments to the Plan were adopted by the Board effective January 1, 2017:

- A one-year update of the Base Period to December 31, 2016;
- A one-year update of the Survivor Benefit Date to January 1, 2017; and
- A one-time ad hoc pensioner increase of 1.35% as at January 1, 2017.

As at December 31, 2017, the financial impact of these changes is \$75,760. During 2016, similar amendments were adopted with a financial impact of \$81,831.

Assets were valued at fair value as at December 31, 2017.

The major assumptions used as best estimates of the Plan's future experience for calculating the actuarial present value of accrued pension benefits are summarized as follows:

	2017 %	2016 %
Discount rate - net of expenses	6.00	5.50
Rate of inflation	2.00	2.00
Weighted average rate of salary increase*	3.25	3.25

* Assumed salary increases from April 1, 2014 through March 30, 2018 are based on wage increases as per the May 17, 2014 collective agreement with an additional 0.5% provision for individual factors. The assumed salary increase on and after April 1, 2018 is 3.25% per annum.

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Statutory actuarial valuations

In accordance with the PBA and the Income Tax Act (Canada), an actuarial valuation is required to be filed at least every three years to report the Plan's surplus or deficit, and to determine the Plan's funding requirements. The most recent actuarial valuation for funding purposes was conducted as at January 1, 2017 and filed with regulators on September 22, 2017. The next required funding valuation filing with the regulators will be as at January 1, 2020. The two valuations required by the PBA, the going concern basis and the solvency basis, are determined using different valuation methods and assumptions and yield different surplus or deficit amounts than those disclosed in these financial statements. A solvency (hypothetical windup) valuation must be performed on the Plan, even though the risk of its being wound up, in management's view, is remote. As a JSPP, the Plan is permitted and has elected an exemption from solvency funding requirements. As a result of converting to a JSPP in 2011, only going concern deficits incurred after January 1, 2011 are to be funded. Funding is also required for previously established solvency deficits, which were determined prior to January 1, 2011.

8 Related party transactions and balances

Related parties include the Plan's Sponsors and the Plan's subsidiaries. Expenses borne by the Sponsor are listed under note 2, administrative expenses. These costs are not charged back to the Plan.

Alternative investments held in subsidiary corporations are managed on behalf of the Plan by external advisers through investment management agreements. The Plan has 14 wholly owned subsidiary corporations. The assets held within the subsidiary corporations are investments in real estate, infrastructure, private equity, hedge funds and private debt. The subsidiary corporations are 100% owned by the Plan. Regular transactions include investment income and return of capital distributions, or capital contributions. For real estate investments, the market value is comprised of both an equity component and also a note payable to the Plan relating to the initial investment.

The following schedule summarizes the Plan's net related party alternative investments:

	2017		2016	
	Fair value	Cost	Fair value	Cost
	\$	\$	\$	\$
PFS Exchange Inc.*	150,828	77,100	146,849	77,100
PFS GTA Industrial Inc.*	100,783	95,626	116,506	127,700
PFS Retail Two Inc.*	73,271	51,500	115,710	95,170
PFS Office One Inc.*	202,732	204,700	203,157	204,700
PFS Retail One Inc.	37,414	15,980	38,371	15,980
PFS Industrial One Inc.	21	23	23	23
5160 Orbitor Drive Ltd.	231	-	8,230	3,700
PFS Faubourg Inc.*	59,600	57,590	57,245	57,590
PFS The Hudson	32,991	30,000	31,267	30,000
Debt on real estate properties	(15,000)	(15,000)	(15,000)	(15,000)
Net investment in real estate	642,871	517,519	702,358	596,963

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	2017		2016	
	Fair value \$	Cost \$	Fair value \$	Cost \$
1793177 Ontario Inc.*	134,971	86,666	132,532	77,321
TTC PFS Secondaries Inc.*	62,191	19,965	89,121	40,788
TTC PFS Private Equities Inc.*	144,264	81,429	131,597	74,953
TTC PFS Private Debt Inc.*	130,670	136,806	114,175	117,281
TTC PFS Taurus Inc.	72,251	72,161	33,428	35,131
Net related party alternative investments	1,187,218	914,546	1,203,211	942,437

* Exceeds 1% of the fair value or cost of the Plan's net assets

The debt on real estate properties consists of the following mortgages payable, which are collateralized by the specific real estate properties:

	2017			2016		
	\$	Interest rate %	Maturity date	\$	Interest rate %	Maturity date
PFS The Hudson Inc.	15,000	3.94	August 2025	15,000	3.94	August 2025

The annual principal repayments due within the next five years and thereafter are as follows:

	\$
2018	-
2019	-
2020	-
2021 and thereafter	15,000
	<u>15,000</u>

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9 Net investment income

The following schedule summarizes investment income (loss), broken down by earned income (loss), realized gain/loss and unrealized gain/loss:

	2017			
	Earned income \$	Realized gain/loss \$	Unrealized gain/loss \$	Total \$
Fixed income				
Invested cash	(392)	-	-	(392)
Short-term money market securities	1,291	(533)	8	766
Canadian bonds	76,603	39,998	2,509	119,110
Non-Canadian bonds	3,497	2,318	(9,710)	(3,895)
Fund of hedge funds	-	(7,579)	(7,579)	(15,158)
Derivatives	-	3,502	(8,377)	(4,875)
Equities				
Canadian	21,194	56,610	20,751	98,555
Non-Canadian	31,434	119,034	159,338	309,806
Alternative investments				
Real estate	21,632	4,100	20,581	46,313
Infrastructure	13,640	-	(684)	12,956
Hedge funds secondaries	-	-	(6,107)	(6,107)
Private debt	286	-	8,693	8,979
Private equity	11,262	-	6,189	17,451
	180,447	217,450	185,612	583,509
				2016
	Earned income \$	Realized gain/loss \$	Unrealized gain/loss \$	Total \$
Fixed income				
Invested cash	264	-	-	264
Short-term money market securities	748	(468)	116	396
Canadian bonds	91,104	55,974	(49,623)	97,455
Non-Canadian bonds	3,719	5,863	(2,298)	7,284
Fund of hedge funds	-	(10,550)	(10,550)	(21,100)
Derivatives	-	5,342	33,024	38,366
Equities				
Canadian	20,508	20,882	138,741	180,131
Non-Canadian	29,157	119,364	(124,171)	24,350
Alternative investments				
Real estate	21,269	-	21,708	42,977
Infrastructure	8,298	-	(3,969)	4,329
Hedge funds secondaries	-	-	(8,980)	(8,980)
Private debt	3,022	-	(3,106)	(84)
Private equity	16,269	-	(4,095)	12,174
	194,358	196,407	(13,203)	377,562

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10 Investment and Plan administration expenses

Administration expenses, such as most salaries and benefits, furniture and equipment, materials and supplies, accommodation and audit fees, are borne by the TTC and are, therefore, not included in these financial statements. The following summarizes the expenses paid by the Plan:

	2017 \$	2016 \$
Investment managers' fees	13,654	14,324
Custodial fees	599	604
Investment consultants' fees	220	414
Actuarial fees	507	352
Other plan administration expenses	553	654
Legal fees	202	322
	15,735	16,670

11 Significant investments

a) Significant individual securities*

As at December 31, 2017, the Plan held no individual investments with fair value or cost exceeding 1% of the fair value or cost of the Plan's net assets.

b) Significant issuers*

The Plan has invested in the following issuers of fixed income and equity securities an amount that exceeds 1% of the fair value or cost of the Plan's net assets:

	2017		2016	
	Fair value \$	Cost \$	Fair value \$	Cost \$
Province of Ontario	234,921	226,151	71,435	72,800
Government of Canada	267,963	266,455	55,517	56,210
Royal Bank of Canada	71,962	51,999	63,490	46,760

* Excludes currency (note 4(a)), derivatives (note 5(b)), pooled fund investments (note 11(c)) and alternative investments (note 3).

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c) Pooled fund investments

The Plan owns the following pooled fund investments as at December 31. The fair value of these pooled fund investments is included in the statement of financial position under the investment type to which they relate.

	2017		2016	
	Fair value \$	Cost \$	Fair value \$	Cost \$
Short-term money market securities				
PHN Institution Short-term Investment Fund	9,161	9,161	13,182	13,182
PHN Municipal Plus Bond Series O	3,456	3,469	-	-
TDAM TD Emerald Canada Treasury	592	592	1,047	1,047
	<u>13,209</u>	<u>13,222</u>	<u>14,229</u>	<u>14,229</u>
Fixed income				
Canso Corp. & Infrastructure Debt	23,149	22,872	22,774	21,911
Canso Private Loan Fund	33,540	33,357	32,253	32,084
BlackRock Universe Bond Fund*	130,776	130,438	127,157	126,224
BlackRock Long Bond Index Fund	-	-	714,322	665,567
PHN Long Bond Pension Trust*	301,921	282,815	286,245	272,952
PHN Investment Grade Corp. Bond Trust*	81,453	86,187	97,077	99,199
PHN Mortgage Pension Trust Fund	14,988	14,814	18,200	17,837
RBC High Yield Bond Fund			1,485	1,454
Crestline Offshore Fund, Ltd.*	109,682	91,985	111,162	91,985
Mesirow Absolute Return Fund (Institutional)*	128,316	90,667	134,415	90,667
PHN High Yield Bond Fund, Series O	62	60	2,971	2,803
	<u>823,887</u>	<u>753,195</u>	<u>1,548,061</u>	<u>1,422,683</u>
Non-Canadian equities				
Nomura Topix Exchange Traded Fund	7,872	6,735	3,309	2,993
MFC Japan Exchange Traded Fund	8,979	8,053	4,721	4,504
SPDR S&P 500 Exchange Traded Fund	6,868	6,523	9,411	8,838
Harding Loevner Emerging Market Equity*	188,060	111,058	148,176	112,486
Oaktree Capital Emerging Market Equity*	72,798	50,153	58,807	50,798
	<u>284,577</u>	<u>182,522</u>	<u>224,424</u>	<u>179,619</u>
	<u>1,121,673</u>	<u>948,939</u>	<u>1,786,714</u>	<u>1,616,531</u>

* Exceeds 1% of the fair value or cost of the Plan's net assets

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12 Commitments

As part of normal business operations, the Plan enters into commitments to the funding of investments. Future commitments to fund investments include investment in infrastructure, hedge fund secondaries, private debt, private equity and US real estate. The future commitments are generally payable on demand based on the capital needs of the investment.

In particular, the Plan is committed to investing up to an additional US\$18.1 million (2016 - US\$36.0 million) in existing infrastructure investments, up to an additional US\$11.5 million (2016 - US\$11.5 million) in hedge fund secondaries, US\$94.0 million in private debt (2016 - \$32.3 million), US\$39.0 million in private equities (2016 - US\$63.6 million) and an additional US\$80.0 million in US real estate (2016 - none).

