#### Board of Governors PENSION & BENEFITS COMMITTEE Friday 16 September 2022 9:30 a.m. to 12:00 noon

#### This meeting will be held via Microsoft Teams

Non-members may arrange to join the open session of the electronic meeting by contacting Diana Goncalves, <u>d3goncalves@uwaterloo.ca</u>

		<b>OPEN SESSION</b>		ACTION
9:30	1.	Approval of the 24 June 2022 Minutes (Open Session)* and Bus a. Update – Filing Actuarial Valuation - December 31, 202		Decision Information
9:35	2.	Execution Against the Work Plan* [Weber-Kraljevski]		Information
9:40	3.	Update on Government Pension Plan Initiatives [Aon]		Information
9:50	4.	Pension Risk Management Dashboard, Q2 2022* [Aon]		Information
10:05	5.	Investments Update, Q2 2022* [Huber]		Information
10:20	6.	Update - Working Group to Review In-Vitro Fertilization Cover	age [Saunders]	Information
10:35	7.	Update on Green Shield Canada Implementation* [Hornberger]		Information
	8.	Other Business		
		CONFIDENTIAL SESSION		
	9.	Approval of the 24 June 2022 Minutes (Confidential Session)+ a	and Business Arising	Discussion
	Ne	ext Meeting: Friday 16 September 2022, 9:30 a.m. – 12:00 noon		
		*attached ** to be distributed + distributed	1 separately	
		9 September June 2022	Tim Weber-Kraljevski Associate University Sec	cretary

### Please convey regrets to Diana Goncalves at <u>d3goncalves@uwaterloo.ca</u>

### Future Agenda Items

- a. Presentation re: the UPP planned for Fall 2022
- b. Pension Contribution for Members on LTD
- c. Level of LTD coverage vs. practical requirements
- d. EFAP Report Data Requirements
- e. Communication Plan re: Handling of Member Questions/Feedback

### University of Waterloo Board of Governors PENSION & BENEFITS COMMITTEE Minutes of the 24 June 2022 Meeting [in agenda order]

**Present:** Peter Barr (chair), Sara Cressman, Tony Giovinazzo, Melissa Graham, Mike Grivicic (secretary), Michelle Hollis, Lily Hua, Dennis Huber, Ranjini Jha, James Rush, David Saunders, David Taylor

### **Regrets:** Terrence Birmingham

**Resources:** Anata Alphonso, Sarah Hadley, Lee Hornberger, Joan Kennedy, Sue McGrath, Allan Shapira, Tim Weber-Kraljevski, Tyler Wendland

**Guests:** Danial Cockayne (7)

**Organization of Meeting**: Peter Barr took the chair, and Mike Grivicic acted as secretary. The secretary advised that a quorum was present. The agenda was accepted as distributed.

#### **OPEN SESSION**

# 1. APPROVAL OF THE 20 MAY 2022 MINUTES (OPEN SESSION) AND BUSINESS ARISING

There was a motion to approve the minutes as presented. Giovinazzo and Hollis. Carried. Items (a)-(c) were received for information.

### 2. EXECUTION AGAINST THE WORK PLAN

This item was received for information.

### 3. UPDATE ON GOVERNMENT PENSION PLAN INITIATIVES

Shapira observed that with recent shifts in the financial markets and movement on interest rates, an update to the plan's valuation will likely be timely in the fall.

## 4. UPDATE ON THE PAYROLL PENSION PLAN

Huber provided an overview of the exhibit, and highlighted that with participating employees now earning all pension benefits under the registered plan, the University will direct a portion of the PPP assets to the RPP over time (~\$8 million per year over the next three years) with the transfer amounts to fund a portion of the University's additional contributions to the RPP.

#### 5. PENSION ADMINISTRATION, INTERNAL SUPPORTING RESOURCES

Hornberger discussed the exhibit provided, noting that it has been more than 10 years since the committee discussed a new staff allocation, and in that time the growth of the plan's membership and overall demands on support staff have grown significantly. Current plan demographics show a large number of members reaching retirement age in coming years, which will also significantly increase the demands on staff to support their needs. The proposed new hires are estimated to cost about \$175,000 annually. A motion was heard to approve the funding of two net new pension administrator positions by the plan, and to direct that a formal review of internal resources again be conducted within the next five years and in conjunction with the competitive bidding process that is required to support the pension administration system effective November 1, 2026. Jha and Saunders. Carried. An annual review of plan staffing will be added to the committee workplan.

### 6. BENEFITS UTILIZATION REPORT

Kennedy provided a PowerPoint presentation and observed: overall cost of benefits program rose in 2021-22; plan experience by specific category of benefit; recent plan changes implemented on 1 May 2021 included new benefits (vision coverage) and amendments to existing benefits (e.g. removal of doctor's note requirement for massage therapy). Members noted the rise in experience pertaining to mental health and observed that proactive therapies/interventions can be beneficial to individuals while help to reduce costs to the plan; the EFAP program and other wellness programs aim to provide such proactive assistance.

### **CONFIDENTIAL SESSION**

**Present:** Peter Barr (chair), Sara Cressman, Tony Giovinazzo, Melissa Graham, Mike Grivicic (secretary), Michelle Hollis, Lily Hua, Dennis Huber, Ranjini Jha, David Saunders, David Taylor

**Regrets:** Terrence Birmingham, James Rush

Guests/Resources: Tim Weber-Kraljevski

#### 10. APPROVAL OF THE 20 MAY 2022 MINUTES AND BUSINESS ARISING

There was a motion to approve the minutes as distributed. Jha and Hollis. Carried.

### 11. MEMO RE: PENSION & BENEFITS COMMITTEE INSURANCE COVERAGE

Huber provided a short overview, noting that the memo is provided to affirm the adequacy of existing coverage.

With no further business for confidential session, the meeting adjourned.

#### NEXT MEETING

The next regular meeting is scheduled for Friday 16 September 2022, 9:30 a.m. – 12:00 noon.

1 September 2022

Mike Grivicic Associate University Secretary

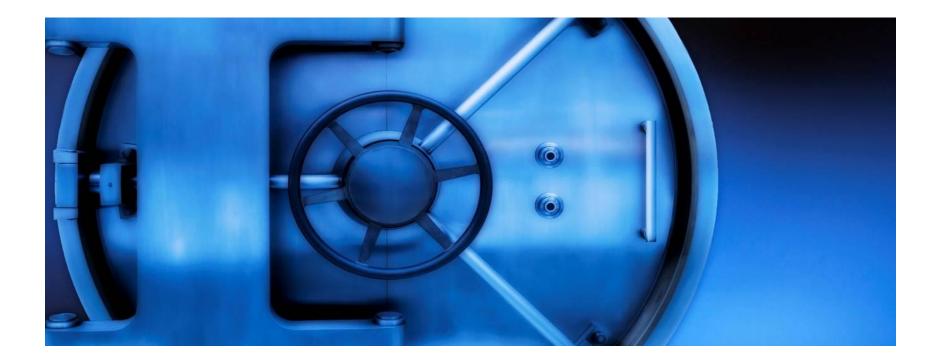
# Execution against Work Plan

## Pension & Benefits Committee, Board of Governors, University of Waterloo

The below represents the annual responsibilities of the P&B Committee and has been prepared as an aid to planning only. The committee's activities are much broader, however, and include: legislative changes, plan changes and improvements; selection of managers and service providers; and requests from the UW community regarding pension and benefits plans.

Task	Frequency (Target month)	10 Sept 2021	22 Oct 2021	19 Nov 2021	10 Dec 2021	14 Jan 2022	18 Feb 2022	11 Mar 2022	20 May 2022	24 June 2022	16 Sept 2022
Approval of Actuarial Valuation Assumptions	Annual (Jan)					$\checkmark$					
Investment Status of PPP	Annual (Feb)						$\checkmark$				
Cost-of-living Increase for Pensioners	Annual (Feb)						$\checkmark$				
Pensions for Deferred Members	Annual (Feb)						$\checkmark$				
Salaries for Pension Purposes for Individuals on Long-term Disability	Annual (Feb)						~				
Actuarial Valuations (RPP and PPP), with posting to website once approved	Annual (Mar)							~			
Review of Contribution and Protocol Caps (RPP and PPP)	Annual (Mar)							~			
Monitor sharing of current service cost between employee and university contributions	Annual (Mar)										
Benefits Plan Premium Renewals	Annual (Mar)							$\checkmark$			
Indexing of Long-term Disability Plan Benefits and Maxima	Annual (Mar)							~			
Annual Committee Self-Assessment	Annual (Mar)							$\checkmark$			
Budget Overview	Annual (May)								$\checkmark$		
Previous Years' Fees and Expenses	Annual (May)								$\checkmark$		
Annual Audit of the Pension Plan Fund Financial Statements	Annual (May)								~		

Task	Frequency	10 Sept 2021	22 Oct 2021	19 Nov 2021	10 Dec 2021	14 Jan 2022	18 Feb 2022	11 Mar 2022	20 May 2022	24 June 2022	16 Sept 2022
Benefits Utilization Report	Annual (June)									$\checkmark$	
Annual review re: benefits added/removed from insured plans in the market	Annual (June)									D	D
Review of Committee Terms of Reference	Annual (June)									$\checkmark$	
Review of Administrative Staffing Support for the Plan (first iteration to occur in 2023)	Annual (Oct)										
Indexing of Plan Maxima – Health, Dental, Retiree Life Insurance	Annual (Nov)			$\checkmark$							
Employee and Family Assistance Program – report on utilization	Annual (Nov)			√							
Maximum pension limits and caps adjustments, based on average industrial wage increase (AIW)	Annual (Dec)				√						
Total Fund Overview	Quarterly	$\checkmark$			$\checkmark$						$\checkmark$
Investment Manager Review	Semi-annually				$\checkmark$						
Approval of the Statement of Investment Policies and Procedures (SIPP)	Annual				$\checkmark$						
Annual Report to the Community	Annual						$\checkmark$				
Actuarial Filing - Minimum every three years				<u>.</u>	<u>.</u>		<u>.</u>	-	-		
Secretariat to advise Aon and HR upon approval by BOG, to commence filing											
Most recent filings: 2017, 2018, 2020, 2021, 2022											



# **Pension Risk Management Dashboard**

# University of Waterloo As of June 30, 2022

To protect the confidential and proprietary information included in this material, it may not be disclosed or provided to any third parties without the approval of Aon.



# **About This Material**

This dashboard was prepared for the University of Waterloo to track changes in funded status of the Pension Plan over successive reporting periods, as well as quantify the amount of risk to which the Pension Plan is exposed. The report presents the funded status and performs the analysis on three bases:

Risk-Free Benchmark Basis – This liability is calculated using best estimate assumptions for retirement, termination and other demographic experience, and a discount rate and inflation assumption determined with reference to the risk-free environment. For this report, the liability has been determined at the real return bond yield plus a 40 basis point credit spread to reflect additional yield that can be achieved with relatively little additional risk. This liability differs from the solvency calculation in that the demographic assumptions are best estimate and statutory "grow-in" provisions are not included.

Going Concern Basis – This liability is calculated using the going concern assumptions at the most recent valuation. The analysis is performed using the market value of assets with Provision of Adverse Deviation as prescribed by the *Pension Benefits Act* (Ontario).

Solvency/Hypothetical Wind Up Basis – This liability is calculated using assumptions determined in accordance with the Canadian Institute of Actuaries Annuity Purchase guidance and Commuted Value standards in effect at each measurement date shown in this report. A summary of these assumptions is included on page 16.

This dashboard also contains a reconciliation that compares the going concern liability with the liability calculated using the risk-free benchmark. The difference between the two liabilities represents the amount of return expected to be provided by taking on risk in the investment portfolio. Over successive quarters the tool helps quantify how that risk changes as the underlying interest rates change.

On both bases the following information is shown:

- Current Funded Status and Historical Asset Liability Performance
  - How well funded is the plan?
  - What has been the return on plan assets and liabilities?
- Detailed Asset and Liability Performance Attribution
  - What factors drove the performance of assets and liabilities over the prior period?
  - What is the relative impact of these factors on the assets and liabilities in isolation and in combination?

For the Risk-Free Benchmark Basis, the following information is also shown:

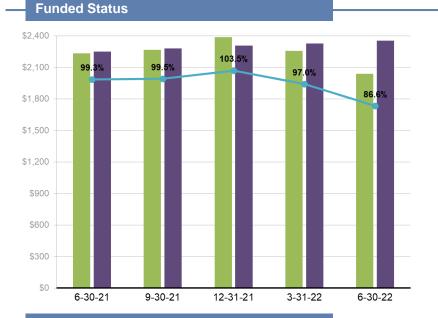
- Scenario Testing
  - What risk exposures does the plan face?
  - What would be the impact of a downside event for each risk factor?

# **Highlights**

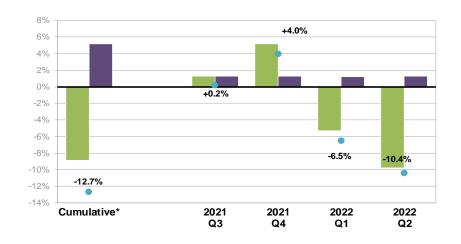
- The going concern funded position increased from a deficit \$69.8 million to a deficit of \$316.3 million over the quarter due to asset performance lower than expected.
- The risk-free deficit decreased from \$1,020.5 million to \$827.4 million over the quarter due to a decrease in risk-free liabilities from an increase in risk free rates.
- The solvency position decreased from \$164.9 million surplus to \$151.7 million surplus over the quarter primarily due to an decrease in solvency liabilities offset by loss on assets performance over the quarter.
- The total fund had a rate of return after all fees of -9.8% for last quarter, lower than expectations.
- The estimated June 30, 2022 liabilities are projected based on the most recent actuarial valuation, with membership data as at December 31, 2021.
- The annuity purchase guidance educational note for valuations as of June 30, 2022 and July 1, 2022 (published as of July 26, 2022) has been reflected in the interest rates used to calculate the June 30, 2022 Solvency and Hypothetical Wind Up liabilities.
- The transfer ratio as at June 30, 2022 is 77.6%. Compared to the transfer ratio of 74.8% in the last filed valuation on December 31, 2021, this represents an increase of 2.8%. Since the transfer ratio did not decrease 10% over the period, no Regulation 19 filing is required. See slide 11 for more details.
- The most recent actuarial valuation was performed as at December 31, 2021.
- All figures are in \$1,000,000 (CAD).

# **Executive Summary – Going Concern**

**40N** 



### **Asset-Liability Return**



#### Highlights for the Quarter-Ending 6/30/22

The plans' funded ratio decreased to 86.6% at 6/30/22. This result was primarily due to the combined effects of:

- Asset performance less than expected,
- Contributions of \$27.1 million which exceeded new benefit accruals, offset by
- An increase in liabilities.

	6/30/21	9/30/21	12/31/21	3/31/22	6/30/22
Market Value of Assets	\$ 2,233.1	\$ 2,267.7	\$ 2,387.7	\$ 2,257.3	\$ 2,037.5
Going Concern Liability	2,249.7 <sup>1</sup>	 2,279.0 <sup>1</sup>	 2,306.3 <sup>1</sup>	 2,327.1 <sup>1</sup>	 2,353.8 <sup>1</sup>
Surplus/(Deficit)	\$ (16.6)	\$ (11.3)	\$ 81.4	\$ (69.8)	\$ (316.3)
Periodic Contributions	\$ 26.4	\$ 27.1	\$ 26.8	\$ 26.5	\$ 27.1
Effective Interest Rate	5.30%	5.30%	5.30%	5.50%	5.50%
Funded Ratio:	99.3%	99.5%	103.5%	97.0%	86.6%
Asset Duration: Going Concern Liability	1.8	1.8	1.8	1.6	1.5
Duration:	14.4	14.4	14.4	14.1	14.1

<sup>1</sup>After application of the PfAD at 9.00%

#### Asset Liability Return for Quarter-Ending 6/30/22

Assets returned -9.8% during the quarter while liabilities returned 1.3%, resulting in a funded status decrease of 10.4%.

Periodic Return/Change	Cumulative	9/30/21	12/31/21	3/31/22	6/30/22
Market Value of Assets Return	-8.9%	1.3%	5.2%	-5.3%	-9.8%
Going Concern: Return	5.2%	1.3%	1.3%	1.2%	1.3%
Funded Ratio Change	-12.7%	0.2%	4.0%	-6.5%	-10.4%

# Asset-Liability Performance Attribution – Going Concern



### Liabilities

Assets

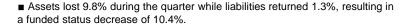


■ Overall, assets returned -9.8% during this guarter.

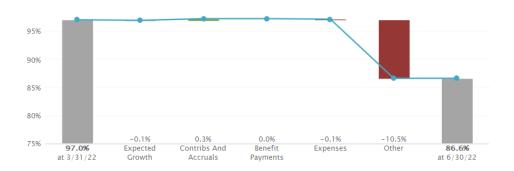
■ The fixed income assets lost value due to an increase in the underlying risk-free rates and widening credit spreads.

- The University and members made \$27.1 million in contributions during the quarter and the trust paid \$24.8 million in benefits to the participants.
- "Other" includes the impact of active management, and differences between benchmark and actual investment allocations.

- Liabilities as of 6/30/22 are based on 5.50%.
- Liabilities were expected to grow by \$31.2 million due to interest cost during the quarter.
- New benefit accruals increased the liability by \$20.7 million during the quarter.
- Plan liabilities decreased by \$24.8 million during the quarter as benefits were paid.



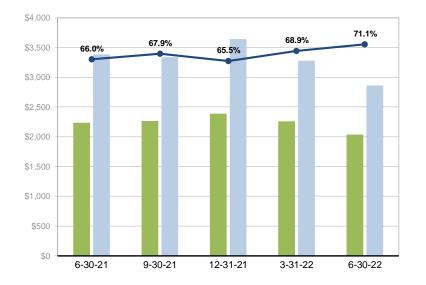
#### Funded Ratio



5

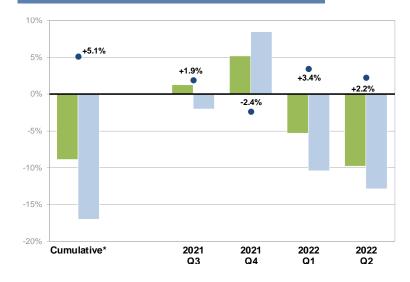
# **Executive Summary – Risk Free**

101



#### **Asset-Liability Return**

**Funded Status** 



#### Highlights for the Quarter-Ending 3/31/22

The plans' funded ratio increased to 71.1% at 6/30/22. This result was primarily due to the combined effects of:

- Asset performance less than expected,
- New benefit accruals which exceeded contributions, and
- A decrease in liabilities due to an increase in risk-free interest rate.

	6/30/21	9/30/21	12/31/21	3/31/22	6/30/22
Market Value of Assets	\$ 2,233.1	\$ 2,267.7	\$ 2,387.7	\$ 2,257.3	\$ 2,037.5
Risk-Free Liability	3,383.6	3,337.7	3,642.8	3,277.8	2,864.9
Surplus/(Deficit)	\$ (1,150.5)	\$ (1,070.0)	\$ (1,255.1)	\$ (1,020.5)	\$ (827.4)
Periodic Contributions	\$ 26.4	\$ 27.1	\$ 26.8	\$ 26.5	\$ 27.1
Discount Rate	0.48%	0.62%	0.23%	0.94%	1.76%
Funded Ratio:					
Assets/Risk-Free Liability	66.0%	67.9%	65.5%	68.9%	71.1%
Asset Duration: Risk-Free Liability	1.8	1.8	1.8	1.6	1.5
Duration:	19.1	18.8	19.5	19.8	17.2

#### Asset Liability Return for Quarter-Ending 3/31/22

Assets returned -9.8% during the quarter while liabilities returned -12.9%, resulting in a funded status increase of 2.2%.

Periodic Return/Change	Cumulative	9/30/21	12/31/21	3/31/22	6/30/22
Market Value of Assets Return	-8.9%	1.3%	5.2%	-5.3%	-9.8%
Risk Free: Return	-17.0%	-2.0%	8.5%	-10.4%	-12.9%
Funded Ratio Change	5.1%	1.9%	-2.4%	3.4%	2.2%

# Asset-Liability Performance Attribution - Risk Free



\$47.4

Other

at 6/30/22

 Risk-free rates used to determine the liabilities increased resulting in a decrease in liabilities of \$465.9 million.

■ Expected inflation rates decreased resulting in a decrease in the liabilities of \$30.3 million.

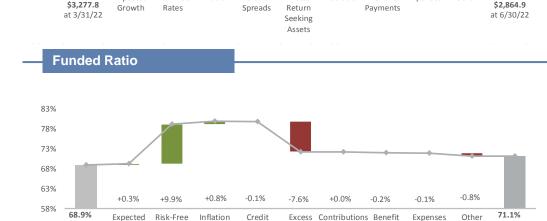
- New benefit accruals increased the liability by \$35.2 million during the quarter.
- Plan liabilities decreased by \$24.8 million during the quarter as benefits were paid.

• "Other" includes impact of a decrease in the underlying long-term nominal and real federal bond yields used to determine the risk-free and implied inflation rates..

■ The difference in exposure to risk-free rates between assets and liabilities combined with changes in risk-free rates resulted in an increase in funded status of 9.9%.

Changes in credit spreads resulted in a decrease in funded status of 0.1%.

■ Return-seeking assets did not perform as well as expected during the quarter, deducting 7.6% from the plans' funded status during the period.



Spreads

Return

Seeking

Assets

and

Accruals

Payments

\$0.0

Credit

\$0.0

Excess

\$35.2

Accruals

(\$24.8)

Benefit

\$0.0

Expenses

University of Waterloo As of June 30, 2022

at 3/31/22

\$3,400

\$3,200

\$3,000

\$2,800

\$2.600

\$2,400

(\$465.9)

**Risk-Free** 

\$25.4

Expected

Growth

Rates

(\$30.3)

Inflation

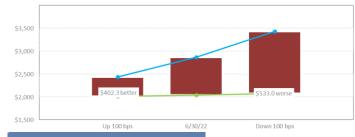
# Sensitivity Analysis – Risk-Free Benchmark

**Credit Spreads** 



	Up 50bps	Current	Down 50bps
Market Value of Assets	\$2,027.7	\$2,037.5	\$2,047.3
Risk Free	\$2,864.9	\$2,864.9	\$2,864.9
Surplus/(Deficit)	(\$837.2)	(\$827.4)	(\$817.6)
 Change		(\$9.8)	\$9.8

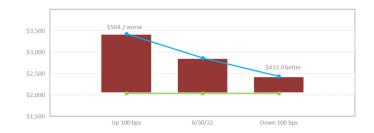
#### **Risk-Free Rates**



#### **Return-Seeking Assets**



Inflation



Market Value of Assets	\$2,006.8		\$2,037.5		\$2,068.7
Risk Free	\$2,431.9		\$2,864.9		\$3,429.1
Surplus/(Deficit)	(\$425.1)		(\$827.4)		(\$1,360.4)
Change		\$402.3		(\$533.0)	

Current

Up

100bps

		Increase 20%	Current		Decrease 20%
Market Value	of Assets	\$2,311.7	\$2,037.5		\$1,763.3
Risk Free		\$2,864.9	\$2,864.9		\$2,864.9
Surplus/(Defi	cit)	(\$553.2)	(\$827.4)		(\$1,101.6)
Change			\$274.2	(\$274.2)	

	Up 100bps	Inflation		Down 100bps
Market Value of Assets	\$2,037.5	\$2,037.5		\$2,037.5
Risk-Free	\$3,429.1	\$2,864.9		\$2,431.9
Surplus/(Deficit)	(1,391.6)	(\$827.4)		(\$394.4)
Change		(\$564.2)	\$433.0	



#### Values in \$1,000,000 (CAD)

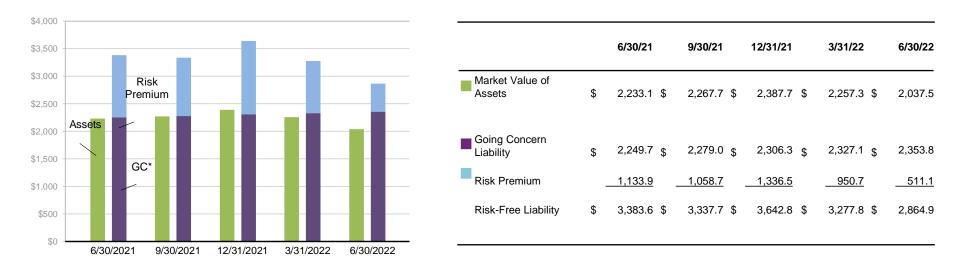
Down

100bps

University of Waterloo As of June 30, 2022

# Reconciliation of Risk-Free Benchmark and Going Concern Funded Status

Values in \$1,000,000 (CAD)



\*Going Concern

The difference between the Risk-Free Liability and the Going Concern Liability is a measure of the amount of risk premium on which the Pension Plan funding is based.



# Hypothetical Wind Up (HWU) and Transfer Ratio

•		4/1/2022		7/1/2022
\$ 2,379.8	\$	2,256.8	\$	2,037.0
 3,181.6		2,870.9		2,623.4
\$ (801.8)	\$	(614.1)	\$	(586.3)
74.8%		79.0%		77.6%
(Last F \$	3,181.6 \$ (801.8)	(Last Filled Valuation)         \$       2,379.8       \$	(Last Filled Valuation)     4/1/2022       \$     2,379.8     \$     2,256.8       3,181.6     2,870.9     \$       \$     (801.8)     \$     (614.1)	(Last Filled Valuation)       4/1/2022         \$       2,379.8       \$       2,256.8       \$         3,181.6       2,870.9

■ Restrictions on commuted values may come into effect if the administrator of the pension plan knows or ought to know that since the valuation date of the last filed report, events have taken place that may result in the reduction of the transfer ratio by 10% or more of the most recently determined transfer ratio. In such case, the administrator shall not transfer any part of the commuted value without prior approval of the Superintendent.

■ If the transfer ratio (the hypothetical wind up assets divided by the hypothetical wind up liabilities including indexation) drops by 10% or more since the last filed valuation, the administrator must stop paying commuted values and seek approval from the regulators to restart paying commuted values. The application is made in a prescribed format. This is generally referred to as a "Regulation 19 Filing".

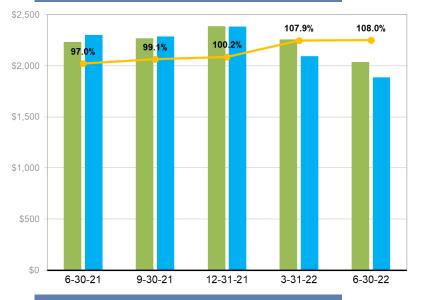
■ During Q2 2022, the financial position of the Pension Plan as measured on a wind-up basis did not drop by more than 10% since December 31, 2021 (the last filed valuation). Therefore, no Regulation 19 Filing is required as of July 1, 2022.

■ The Regulation 19 filing requirements will be monitored throughout 2022 on a quarterly basis.



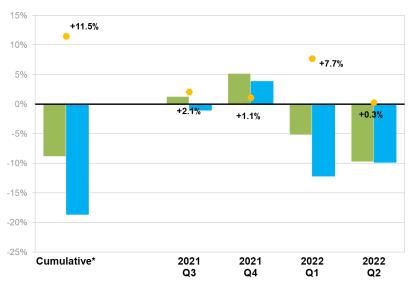
# **Executive Summary - Solvency**

401



### Asset-Liability Return

**Funded Status** 



#### Highlights for the Quarter-Ending 6/30/22

The plans' funded ratio increased to 108.0% at 6/30/22. This result was primarily due to the combined effects of:

- Asset performance lower than expected,
- Contributions which exceeded new benefit accruals, and
- A decrease in liabilities due to an increase in the effective interest rates.

	6/30/2021	9/30/2021	12/31/2021	3/31/2022	6/30/2022
<ul> <li>Market Value of Assets</li> <li>Solvency Liability</li> </ul>	\$ 2,233.1 2,302.8	\$ 2,267.7 2,287.4	\$ 2,387.7 2,382.8	\$ 2,257.3 2,092.4	\$ 2,037.5 1,885.8
Surplus/(Deficit)	\$ (69.7)	\$ (19.7)	\$ 4.9	\$ 164.9	\$ 151.7
Periodic Contributions Effective Interest Rate	\$ 26.4 2.88%	\$ 27.1 3.01%	\$ 26.8 2.81%	\$ 26.5 3.70%	\$ 27.1 4.62%
Funded Ratio:					
Assets/Solvency Liability	97.0%	99.1%	100.2%	107.9%	108.0%
Assets Duration: Solvency Liability	1.8	1.8	1.8	1.6	1.5
Duration:	14.8	14.3	14.9	14.6	12.5

#### Asset Liability Return for Quarter-Ending 6/30/22

-

Assets returned -9.8% during the quarter while liabilities returned -9.9%, resulting in a funded status increase of 0.3%.

Periodic Return/Change	Cumulative	9/30/21	12/31/21	3/31/22	6/30/22
Market Value of Assets Return	-8.9%	1.3%	5.2%	-5.3%	-9.8%
Funding Target: Return	-18.7%	-1.1%	3.9%	-12.2%	-9.9%
Funded Ratio Change	11.5%	2.1%	1.1%	7.7%	0.3%

# Asset-Liability Performance Attribution – Solvency



#### Liabilities

Assets



■ Overall, assets returned -9.8% during this guarter.

■ The fixed income assets lost value due to an increase in the underlying risk-free rates and widening credit spreads.

■ The plans' return-seeking assets performed lower than expected during the quarter.

■ The plan sponsor made \$27.1 million in contributions during the quarter and the trust paid \$24.8 million in benefits to the participants.

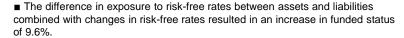
• "Other" includes the impact of active management, and differences between benchmark and actual investment allocations.

■ Liabilities were expected to grow by \$20.6 million due to interest cost during the quarter.

■ Risk-free rates increased, and credit spreads widened, resulting in a net decrease of \$234.6 million (\$209.0 million + \$25.6 million).

■ New benefit accruals increased the liability by \$22.9 million during the quarter.

Plan liabilities decreased by \$24.8 million during the quarter as benefits were paid.

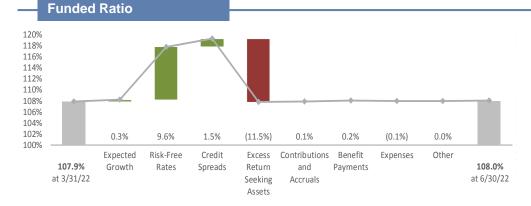


■ The difference in exposure to credit spreads between assets and liabilities combined with changes in credit spreads resulted in an increase in funded status of 1.5%.

■ Return-seeking assets did not perform as well as expected during the quarter, deducting 11.5% from the plans' funded status during the period.

• Contributions exceeded benefit accruals during the quarter, resulting in a net increase of 0.1% in the funded status.





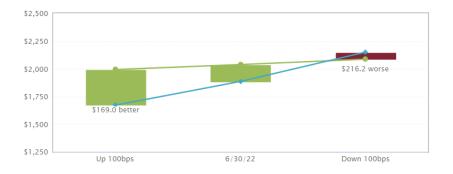
# Sensitivity Analysis - Solvency

#### **Credit Spreads**



	Up 50bps	Current		Down 50bps
Market Value of Assets	\$2,022.8	\$2,037.5		\$2,052.6
Funding Target	\$1,773.3	\$1,885.8		\$2,010.8
Surplus/(Deficit)	\$249.5	\$151.7		\$41.8
Change		\$97.8	(\$109.9)	

**Risk-Free Rates** 



	Up 100bps	Current	Down 100bps
Market Value of Assets	\$1,992.5	\$2,037.5	\$2,085.8
Funding Target	\$1,671.8	\$1,885.8	\$2,150.3
Surplus/(Deficit)	\$320.7	\$151.7	(\$64.5)
Change		\$169.0	(\$216.2)

**Return-Seeking Assets** 



	Increase 20%	Current		Decrease 20%
Market Value of Assets	\$2,311.7	\$2,037.5		\$1,763.3
Funding Target	\$1,885.8	\$1,885.8		\$1,885.8
Surplus/(Deficit)	\$425.9	\$151.7		(\$122.5)
Change		\$274.2	(\$274.2)	

Values in \$1,000,000 (CAD)

AON



# Appendix



# Plan Provisions & Membership Data

Same as in the Actuarial Valuation Report as of December 31, 2021.

# **Actuarial Methods & Assumptions**

Our analysis of the estimated financial position of the Pension Plan is based on the following:

	6/30/21	9/30/21	12/31/21	3/31/22	6/30/22
Going Concern					
Discount Rate	5.30%	5.30%	5.30%	5.50%	5.50%
Inflation	2.00%	2.00%	2.00%	2.00%	2.00%
Salary Increase	3.00%/4.00% <sup>1</sup>				
PfAD	9.00%	9.00%	9.00%	9.00%	9.00%
Mortality	CPM2014Public	CPM2014Public	CPM2014Public	CPM2014Public	CPM2014Public
Risk-Free Benchmark					
Discount Rate	0.48%	0.62%	0.23%	0.94%	1.76%
Solvency					
Annuity Purchase Interest Rate	2.97%	3.12%	2.86%	3.81%	4.69%
Effective Date of Annuity Purchase Guidance Used	6/30/21	9/30/21	12/31/21	3/31/22	6/30/22
Lump Sum Value Interest Rate (Years 1-10) <sup>2</sup>	1.80%	1.90%	2.10%	3.40%	4.30%
Lump Sum Value Interest Rate (Years 10+) <sup>2</sup>	3.30%	3.40%	3.10%	3.70%	4.60%
Mortality <sup>3</sup>	CPM2014	CPM2014	CPM2014	CPM2014	CPM2014
Hypothetical Wind Up					
Annuity Purchase Interest Rate (100% Indexed)	-0.39%	-0.25%	-0.54%	0.14%	0.76%
Annuity Purchase Interest Rate (75% Indexed)	0.45%	0.59%	0.26%	1.06%	1.74%
Effective Date of Annuity Purchase Guidance Used	6/30/21	9/30/21	12/31/21	3/31/22	6/30/22
Lump Sum Value Interest Rate (100% Indexed) (Years 1-10) <sup>2</sup>	0.70%	0.80%	0.70%	1.50%	2.50%
Lump Sum Value Interest Rate (100% Indexed) (Years 10+)2	1.20%	1.30%	1.00%	1.80%	2.80%
Lump Sum Value Interest Rate (75% Indexed) (Years 1-10)2	1.00%	1.00%	1.00%	2.00%	2.90%
Lump Sum Value Interest Rate (75% Indexed) (Years 10+) <sup>2</sup>	1.70%	1.90%	1.50%	2.30%	3.20%
Mortality <sup>3</sup>	CPM2014	CPM2014	CPM2014	CPM2014	CPM2014
Underlying Canadian Reference Data					
CANSIM v39054 (7 Year)	1.15%	1.24%	1.27%	2.37%	3.15%
CANSIM v39056 (30 Year Long Term)	1.84%	1.98%	1.68%	2.37%	3.14%
CANSIM v39057 (30 Year Real Return)	0.11%	0.25%	-0.14%	0.54%	1.36%
CANSIM v39062 (Over 10 Years)	1.77%	1.92%	1.66%	2.41%	3.19%

<sup>1</sup> 3.00% per year for 2 years; 4.00% year thereafter

<sup>2</sup> Lump Sum Value Interest Rates are based on rates in effect on the first day of the month following quarter end (i.e., January 1st, April 1st, July 1st and October 1st).

<sup>3</sup> With improvement scale MI-2017 for Going Concern and Risk Free and CPM-B for Solvency.

All other assumptions and methods are the same as those shown in the Actuarial Valuation Report as of December 31,2021. For the Risk-Free Benchmark basis, all other assumptions and methods are the same as those used for the Going Concern basis.



# **Actuarial Attestation**

#### This document is intended to provide to the University of Waterloo a summary of the performance of the Pension Plan as of June 30, 2022.

This analysis is intended to assist University of Waterloo with a review of the associated issues and options, and its use may not be appropriate for other purposes. This analysis has been prepared solely for the benefit of University of Waterloo. Any further dissemination of this report is not allowed without the written consent of Aon.

In conducting the analysis, we have relied on plan design, demographic and financial information provided by other parties, including the plan sponsor. While we cannot verify the accuracy of all the information, the supplied information was reviewed for consistency and reasonableness. As a result of this review, we have no reason to doubt the substantial accuracy or completeness of the information and believe that it has produced appropriate results.

Experience different than anticipated could have a material impact on the ultimate costs of the benefits. In addition, changes in plan provisions or applicable laws could have a substantial impact on cost. Actual experience may differ from our modeling assumptions.

Aon August 2022

# Asset Allocation and Benchmarking

Asset Class	6/30/22
Alternatives	
FTSE EPRA NAREIT DEVELOPED Total Return Index USD	3.3%
MSCI USA Infrastructure Index	7.0%
Fixed Income ■ FTSE TMX Universe Bond Index	32.7%
International Equities	
■ MSCI World Index	51.0%
■ S&P TSX	6.0%
Total	100.0%

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University of Waterloo Pension Plan | Quarterly Period Ending 30 June 2022

# **Detailed Investment Review**

Visit the Aon Retirement and Investment Website (https://retirement-investment-insights.aon.com/canada); sharing our best thinking.



### Performance Summary<sup>1</sup>

As of 30 June 2022

	Allocati	on				Р	erformance (%	b)			
	Market Value (\$000)	%	1 Quarter	Year To Date	1 Year	2 Years	3 Years	4 Years	5 Years	10 Years	15 Years
Total Fund	2,037,528	100.0	-9.77	-14.55	-8.94	2.24	2.71	3.67	4.12	6.36	5.12
CPI + 3.5% <sup>2</sup>			3.57	8.02	11.92	9.26	7.54	7.05	6.85	5.90	5.68
Value Added			-13.34	-22.57	-20.86	-7.02	-4.83	-3.38	-2.73	0.46	-0.56
Total Fund Benchmark <sup>10</sup>			-10.19	-14.34	-8.89	2.67	3.32	4.16	4.81	7.32	-
Value Added			0.42	-0.21	-0.05	-0.43	-0.61	-0.49	-0.69	-0.96	-
Canadian Equities <sup>3</sup>	116,672	5.7	-13.15 (94)	-9.85 (84)	-4.91 (87)	12.77 (91)	3.22 (100)	2.98 (100)	4.38 (100)	7.08 (99)	
S&P/TSX Composite Index			-13.19 (94)	-9.87 (84)	-3.87 (85)	13.43 (84)	7.97 (75)	6.93 (64)	7.62 (55)	8.18 (87)	5.12 (89)
Value Added			0.04	0.02	-1.04	-0.66	-4.75	-3.95	-3.24	-1.10	-
TD Emerald Canadian Equity Index <sup>4</sup>	116,672	5.7	-13.15 (94)	-9.85 (84)	-3.87 (85)	13.44 (84)	7.97 (75)	6.93 (64)	7.61 (57)	8.16 (87)	5.13 (89)
S&P/TSX Composite Index			-13.19 (94)	-9.87 (84)	-3.87 (85)	13.43 (84)	7.97 (75)	6.93 (64)	7.62 (55)	8.18 (87)	5.12 (89)
Value Added			0.04	0.02	0.00	0.01	0.00	0.00	-0.01	-0.02	0.01
Global Equities <sup>6</sup>	525,679	25.8	-12.87 (67)	-22.00 (80)	-13.48 (67)	2.55 (83)	2.89 (89)	4.11 (70)	5.95 (66)	11.07 (72)	4.80 (89)
Global Equity Benchmark <sup>11</sup>			-12.47 (63)	-18.08 (59)	-8.94 (41)	8.46 (32)	8.67 (12)	8.46 (10)	9.70 (12)	14.37 (14)	8.69 (18)
Value Added			-0.40	-3.92	-4.54	-5.91	-5.78	-4.35	-3.75	-3.30	-3.89
Walter Scott <sup>5</sup>	365,558	17.9	-12.80 (66)	-21.31 (78)	-12.31 (61)	4.00 (75)	5.99 (48)	7.66 (21)	9.53 (15)	13.14 (30)	9.33 (13)
MSCI World Index (Net) (CAD)			-13.44 (74)	-18.96 (64)	-10.81 (52)	6.28 (55)	6.50 (39)	6.31 (39)	7.52 (39)	12.12 (53)	6.55 (65)
Value Added			0.64	-2.35	-1.50	-2.28	-0.51	1.35	2.01	1.02	2.78
RBC Global Focus Equity <sup>9</sup>	80,242	3.9	-12.92 (68)	-23.44 (83)	-16.09 (79)	5.69 (62)	7.38 (25)	7.69 (21)	10.68 (7)	-	-
MSCI AC World Index (Net)			-12.90 (68)	-18.63 (61)	-12.28 (61)	5.48 (63)	5.72 (53)	5.58 (51)	6.86 (52)	11.35 (66)	6.15 (75)
Value Added			-0.02	-4.81	-3.81	0.21	1.66	2.11	3.82	-	-
Mirova Global Sustainable Equity <sup>9</sup>	79,808	3.9	-12.63 (64)	-23.19 (83)	-15.01 (76)	3.67 (77)	9.31 (9)	10.05 (3)	11.15 (5)	-	-
MSCI AC World Index (Net)			-12.90 (68)	-18.63 (61)	-12.28 (61)	5.48 (63)	5.72 (53)	5.58 (51)	6.86 (52)	11.35 (66)	6.15 (75)
Value Added			0.27	-4.56	-2.73	-1.81	3.59	4.47	4.29	-	-

<sup>1</sup>Parentheses contain percentile rankings. (1st percentile is the best performing). All returns are reported gross of fees.

<sup>2</sup> CPI+3.5% benchmark has been implemented since February 2022. CPI+3.6% benchmark has been implemented retrospectively since 1 November 2018. From 1 January 2017 to 31 October 2018, CPI+3.5% benchmark was used. From 1 January 2016 to 31 December 2016, CPI + 3.7% benchmark was used. From 1 January 2014 to 31 December 2016, CPI+3.75% benchmark

was used. Prior to 1 January 2014, CPI+3.85% benchmark was used.

<sup>3</sup>There was no exposure to Canadian Equities from January 2012 to April 2012.

<sup>4</sup>TD Emerald Canadian Equity Index added July 2020. Returns prior to these dates are presentative only.

5Returns for Sionna before May 2012, Oldfield before July 2011, Trilogy before April 2008 and Walter Scott before July 2009 are based on composite returns.

<sup>6</sup>The global equities return prior to August 2018 includes Trilogy.

<sup>7</sup>In November 2016, TD Emerald U.S. pooled and International Index funds were added. Returns prior to these dates are representative only.

<sup>8</sup>The Currency Overlay was discontinued on 20 November 2017.

<sup>9</sup>In August 2021, RBC Global Focus Equity and Mirova Sustainable Global Equity strategies were added. Returns prior to these dates are representative only. <sup>10</sup>Total Fund Benchmark was implemented as a performance objective in February 2022. Due to licensing constraints FTSE Global Infrastructure 50/50 Index is used in place of UBS 50/50

<sup>11</sup>Global Equity Benchmark is 100% MSCI ACWI as of February 2022. Prior Benchmark was MSCI World. <sup>12</sup>Newly added fund, quarterly returns will be reported on starting Q3 2022.

**Empower Results**<sup>®</sup>

### Performance Summary<sup>1</sup>

As of 30 June 2022

	Allocati	on				Р	erformance (%	<b>)</b>			
	Market Value (\$000)	%	1 Quarter	Year To Date	1 Year	2 Years	3 Years	4 Years	5 Years	10 Years	15 Years
U.S. Equities	044 700	45.4	40.00 (04)	40.00 (50)	0.05 (50)	0.40 (50)	40.40 (00)	0.00 (04)	44.40 (00)		
TD Emerald Pooled U.S. Fund <sup>7</sup>	314,726	15.4		. ,	-6.85 (50)	9.16 (52)	10.10 (33)	9.99 (31)	11.13 (36)	-	-
S&P 500 (CAD)			-13.35 (61)	-18.26 (58)	-6.89 (50)	9.17 (52)	10.12 (33)	10.02 (31)	11.16 (35)	15.65 (40)	9.94 (58)
Value Added			0.03	0.04	0.04	-0.01	-0.02	-0.03	-0.03	-	-
International Equities											
TD Emerald International Equity Index <sup>7</sup>	163,904	8.0	-11.62 (63)	-17.77 (51)	-14.20 (50)	1.62 (63)	0.72 (75)	0.67 (67)	2.16 (71)	8.01 (86)	2.84 (89)
MSCI EAFE (Net)			-11.71 (64)	-17.86 (52)	-14.34 (52)	1.53 (65)	0.64 (78)	0.58 (69)	2.06 (72)	7.91 (86)	2.73 (91)
Value Added			0.09	0.09	0.14	0.09	0.08	0.09	0.10	0.10	0.11
Fixed Income	664,733	32.6	-3.64	-8.61	-8.29	-4.34	-0.99	0.74	0.74	-	-
TDAM Universe Bond Index	313,346	15.4	-5.65 (34)		-11.39 (74)	-7.14 (93)	-2.41 (99)	-0.07 (100)		1.63 (96)	3.35 (97)
FTSE Canada Universe Bond	010,040	10.4	-5.66 (37)	-12.23 (60)	-11.39 (74)	-7.02 (91)	-2.30 (96)	0.03 (95)	0.18 (98)	1.72 (92)	3.44 (95)
Value Added			0.01	0.01	0.00	-0.12	-0.11	-0.10	-0.10 (30)	-0.09	-0.09
Value Audeu			0.01	0.01	0.00	-0.12	-0.11	-0.10	-0.10	-0.09	-0.09
TDAM Active Short Term Corporate	354,960	17.4	-1.79	-5.15	-5.36	-1.63	0.35	1.47	1.32	-	-
FTSE Canada Short Term Corporate Bond			-1.88	-5.21	-5.39	-1.59	0.39	1.50	1.36	2.07	3.33
Value Added			0.09	0.06	0.03	-0.04	-0.04	-0.03	-0.04	-	-
Alternatives											
XRE ETF (Real Estate)	61,992	3.0	-17.48 (100	) -17.86 (100)	-9.00 (100)	10.05 (100)	0.73 (100)	3.76 (100)	5.33 (100)	-	-
FTSE EPRA Nareit Developed	- ,		-14.52 (100	, , ,	· · ·	5.56 (100)	-0.60 (100)	1.46 (100)	· · /	8.11 (75)	4.14 (-)
Value Added			-2.96	0.80	0.09	4.49	1.33	2.30	2.58	-	-
BIP.UN (Infrastructure)	81,055	4.0	-9.28	-1.44	9.65	19.89	18.86	18.55	14.43	19.19	-
FTSE Global Core Infrastructure 50/50 Index			-4.29	-1.84	7.92	8.33	4.18	6.97	6.56	11.32	-
Value Added			-4.99	0.40	1.73	11.56	14.68	11.58	7.87	7.87	-

<sup>1</sup>Parentheses contain percentile rankings. (1st percentile is the best performing). All returns are reported gross of fees.

<sup>2</sup> CPI+3.5% benchmark has been implemented since February 2022. CPI+3.6% benchmark has been implemented retrospectively since 1 November 2018. From 1 January 2017 to 31 October 2018, CPI+3.5% benchmark was used. From 1 January 2016 to 31 December 2016, CPI + 3.7% benchmark was used. From 1 January 2014 to 31 December 2016, CPI+3.75% benchmark

was used. Prior to 1 January 2014, CPI+3.85% benchmark was used.

<sup>3</sup>There was no exposure to Canadian Equities from January 2012 to April 2012.

<sup>4</sup>TD Emerald Canadian Equity Index added July 2020. Returns prior to these dates are presentative only.

5Returns for Sionna before May 2012, Oldfield before July 2011, Trilogy before April 2008 and Walter Scott before July 2009 are based on composite returns.

<sup>6</sup>The global equities return prior to August 2018 includes Trilogy.

<sup>7</sup>In November 2016, TD Emerald U.S. pooled and International Index funds were added. Returns prior to these dates are representative only.

<sup>8</sup>The Currency Overlay was discontinued on 20 November 2017.

<sup>9</sup>In August 2021, RBC Global Focus Equity and Mirova Sustainable Global Equity strategies were added. Returns prior to these dates are representative only. <sup>10</sup>Total Fund Benchmark was implemented as a performance objective in February 2022. Due to licensing constraints FTSE Global Infrastructure 50/50 Index is used in place of UBS 50/50



### Performance Summary<sup>1</sup>

As of 30 June 2022

	Allocat	ion		Performance (%)							
	Market Value (\$000)	%	1 Quarter	Year To Date	1 Year	2 Years	3 Years	4 Years	5 Years	10 Years	15 Years
BEP.UN (Infrastructure) <sup>12</sup>	61,471	3.0	-	-	-	-	-	-	-	-	-
FTSE Global Core Infrastructure 50/50 Index	,		-4.29	-1.84	7.92	8.33	4.18	6.97	6.56	11.32	-
Value Added			-	-	-	-	-	-	-	-	-
Operating Account	74,871	3.7									
BAs/U.S. and CDN Cash	33,896	1.7	0.30	0.39	0.47	0.32	0.65	0.93	0.98	0.89	-
Operating Account	13,399	0.7	0.01	0.02	0.04	0.17	0.21	0.28	0.27	0.20	0.54
Currency Overlay Effect (Historical) <sup>8</sup>											
Total Fund & CO	2,037,528	100.0	-9.77	-14.55	-8.94	2.24	2.71	3.67	4.07	6.15	4.57
Total Fund ex CO			-9.77	-14.55	-8.94	2.24	2.71	3.67	4.12	6.36	5.12
Value Added			0.00	0.00	0.00	0.00	0.00	0.00	-0.05	-0.21	-0.55

<sup>1</sup>Parentheses contain percentile rankings. (1st percentile is the best performing). All returns are reported gross of fees.

<sup>2</sup> CPI+3.5% benchmark has been implemented since February 2022. CPI+3.6% benchmark has been implemented retrospectively since 1 November 2018. From 1 January 2017 to 31 October 2018, CPI+3.5% benchmark was used. From 1 January 2016 to 31 December 2016, CPI + 3.7% benchmark was used. From 1 January 2014 to 31 December 2016, CPI+3.75% benchmark was used. Prior to 1 January 2014, CPI+3.85% benchmark was used.

<sup>3</sup>There was no exposure to Canadian Equities from January 2012 to April 2012.

<sup>4</sup>TD Emerald Canadian Equity Index added July 2020. Returns prior to these dates are presentative only.

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#### **Executive Summary**

			Rolling Y	ear Perfor	mance <sup>1</sup>					
			A	s of 30 June						
	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Total Fund	-8.94	14.78	3.68	6.58	5.96	10.02	3.99	10.77	12.65	6.06
CPI + 3.5% <sup>2</sup>	11.92	6.67	4.18	5.59	6.04	4.54	5.05	4.57	5.94	4.69
Value Added	-20.86	8.11	-0.50	0.99	-0.08	5.48	-1.06	6.20	6.71	1.37
Total Fund Benchmark <sup>10</sup>	-8.89	15.71	4.63	6.69	7.46	9.34	3.89	8.96	17.61	10.12
Value Added	-0.05	-0.93	-0.95	-0.11	-1.50	0.68	0.10	1.81	-4.96	-4.06
Canadian Equities <sup>3</sup>	-4.91 (87)	33.73 (65)	-13.53 (89)	2.29 (56)	10.15 (50)	16.15 (9)	0.62 (60)	-3.21 (76)	26.36 (80)	11.89 (56)
S&P/TSX Composite Index	-3.87 (85)	33.85 (63)	-2.17 (30)	3.87 (40)	10.41 (46)	11.05 (65)	-0.20 (64)	-1.16 (64)	28.66 (65)	7.90 (93)
Value Added	-1.04	-0.12	-11.36	-1.58	-0.26	5.10	0.82	-2.05	-2.30	3.99
TD Emerald Canadian Equity Index <sup>4</sup>	-3.87 (85)	33.88 (62)	-2.19 (30)	3.86 (40)	10.37 (47)	10.99 (67)	-0.21 (64)	-1.13 (64)	28.57 (65)	7.90 (93)
S&P/TSX Composite Index	-3.87 (85)	33.85 (63)	-2.17 (30)	3.87 (40)	10.41 (46)	11.05 (65)	-0.20 (64)	-1.16 (64)	28.66 (65)	7.90 (93)
Value Added	0.00	0.03	-0.02	-0.01	-0.04	-0.06	-0.01	0.03	-0.09	0.00
Global Equities <sup>6</sup>	-13.48 (67)	21.55 (80)	3.57 (55)	7.86 (25)	13.63 (36)	21.97 (31)	-0.57 (54)	19.29 (56)	22.03 (79)	21.27 (71)
Global Equity Benchmark <sup>11</sup>	-8.94 (41)	29.18 (42)	9.09 (31)	7.86 (25)	14.77 (26)	20.20 (45)	3.48 (28)	21.25 (40)	27.75 (29)	25.13 (37)
Value Added	-4.54	-7.63	-5.52	0.00	-1.14	1.77	-4.05	-1.96	-5.72	-3.86
Walter Scott⁵	-12.31 (61)	23.36 (75)	10.09 (27)	12.80 (6)	17.39 (14)	16.08 (74)	7.32 (15)	20.67 (46)	20.12 (89)	20.67 (76)
MSCI World Index (Net) (CAD)	-10.81 (52)	26.64 (60)	6.95 (40)	5.74 (41)	12.52 (47)	17.84 (63)	1.45 (40)	18.88 (59)	25.25 (54)	22.67 (58)
Value Added	-1.50	-3.28	3.14	7.06	4.87	-1.76	5.87	1.79	-5.13	-2.00
RBC Global Focus Equity <sup>9</sup>	-16.09 (79)	33.11 (24)	10.86 (24)	8.64 (21)	23.49 (5)	19.90 (48)	4.84 (22)	26.42 (12)	-	-
MSCI AC World Index (Net)	-12.28 (61)	26.85 (59)	6.19 (45)	5.16 (45)	12.15 (51)	18.43 (58)	0.46 (48)	18.03 (65)	24.14 (64)	20.59 (76)
Value Added	-3.81	6.26	4.67	3.48	11.34	1.47	4.38	8.39	-	-
Mirova Global Sustainable Equity <sup>9</sup>	-15.01 (76)	26.46 (63)	21.54 (7)	12.29 (7)	15.68 (23)	19.12 (54)	3.23 (30)	19.93 (51)	-	-
MSCI AC World Index (Net)	-12.28 (61)	26.85 (59)	6.19 (45)	5.16 (45)	12.15 (51)	18.43 (58)	0.46 (48)	18.03 (65)	24.14 (64)	20.59 (76)
Value Added	-2.73	-0.39	15.35	7.13	3.53	0.69	2.77	1.90	-	-

Parentheses contain percentile rankings. (1st percentile is the best performing). All returns are reported gross of fees.

<sup>2</sup> CPI+3.5% benchmark has been implemented since February 2022. CPI+3.6% benchmark has been implemented retrospectively since 1 November 2018. From 1 January 2017 to 31 October 2018, CPI+3.5% benchmark was used. From 1 January 2016 to 31 December 2016, CPI + 3.7% benchmark was used. From 1 January 2014 to 31 December 2016, CPI+3.7% benchmark was used.

was used. Prior to 1 January 2014, CPI+3.85% benchmark was used.

<sup>3</sup>There was no exposure to Canadian Equities from January 2012 to April 2012.

<sup>4</sup>TD Emerald Canadian Equity Index added July 2020. Returns prior to these dates are presentative only. <sup>5</sup>Returns for Sionna before May 2012, Oldfield before July 2011, Trilogy before April 2008 and Walter Scott before July 2009 are based on composite returns.

<sup>6</sup>The global equities return prior to August 2018 includes Trilogy.

<sup>7</sup>In November 2016, TD Emerald U.S. pooled and International Index funds were added. Returns prior to these dates are representative only.

<sup>8</sup>The Currency Overlay was discontinued on 20 November 2017.

<sup>9</sup>In August 2021, RBC Global Focus Equity and Mirova Sustainable Global Equity strategies were added. Returns prior to these dates are representative only. <sup>10</sup>Total Fund Benchmark was implemented as a performance objective in February 2022. Due to licensing constraints FTSE Global Infrastructure 50/50 Index is used in place of UBS 50/50



#### **Executive Summary**

#### Rolling Year Performance<sup>1</sup>

#### As of 30 June

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
U.S. Equities	2022	2021	2020	2013	2010	2017	2010	2010	2014	2010
TD Emerald U.S. Pooled Fund <sup>7</sup>	-6.85 (50)	27.92 (61)	12.02 (40)	9.66 (40)	15.79 (47)	17.80 (60)	8.14 (22)	-	-	-
S&P 500 (CAD)	-6.89 (50)	28.01 (61)	12.05 (40)	9.69 (40)	15.85 (46)	17.90 (59)	8.18 (22)	25.91 (55)	25.81 (62)	24.80 (58)
Value Added	0.04	-0.09	-0.03	-0.03	-0.06	-0.10	-0.04	-	-	-
International Equities										
TD Emerald International Equity Index <sup>7</sup>	-14.20 (50)	20.35 (70)	-1.05 (57)	0.53 (39)	8.32 (58)	20.25 (55)	-6.47 (66)	12.46 (74)	24.85 (58)	22.93 (54)
MSCI EAFE (Net)	-14.34 (52)	20.33 (70)	-1.12 (57)	0.41 (40)	8.22 (59)	20.27 (54)	-6.55 (67)	12.26 (76)	24.77 (58)	22.76 (57)
Value Added	0.14	0.02	0.07	0.12	0.10	-0.02	0.08	0.20	0.08	0.17
Fixed Income	-8.29	-0.22	6.08	6.12	0.71	-2.49	2.10			
TDAM Universe Bond Index	-11.39 (74)	-2.67 (97)	7.77 (75)	7.29 (69)	0.70 (84)	-0.10 (95)	5.16 (57)	6.27 (28)	5.18 (83)	-0.31 (94)
FTSE TMX Canada Bond Universe	-11.39 (74)	-2.43 (94)	7.88 (67)	7.36 (60)	0.76 (75)	0.02 (87)	5.22 (50)	6.25 (29)	5.34 (77)	-0.17 (90)
Value Added	0.00	-0.24	-0.11	-0.07	-0.06	-0.12	-0.06	0.02	-0.16	-0.14
TDAM Active Short Term Corporate	-5.36	2.24	4.41	4.93	0.72	1.48	2.11	-	-	-
FTSE Canada Short Term Corporate Bond	-5.39	2.36	4.47	4.90	0.80	1.49	1.98	3.71	4.04	2.69
Value Added	0.03	-0.12	-0.06	0.03	-0.08	-0.01	0.13	-	-	-
Alternatives										
XRE ETF (Real Estate)	-9.00 (100)	33.10 (1)	-15.60 (100)	13.39 (1)	11.85 (11)	0.62 (100)	12.40 (1)	2.25 (100)	8.46 (17)	-
FTSE EPRA Nareit Developed	-9.09 (100)	22.58 (1)	-11.88 (100)	7.92 (54)	8.08 (62)	1.14 (100)	17.10 (1)	17.69 (1)	15.49 (1)	18.25 (9)
Value Added	0.09	10.52	-3.72	5.47	3.77	-0.52	-4.70	-15.44	-7.03	-
BIP.UN (Infrastructure)	9.65	31.09	16.81	17.63	-0.66	42.17	12.33	29.29	21.71	17.37
FTSE Global Core Infrastructure 50/50 Index	7.92	8.73	-3.63	15.80	4.93	10.41	14.51	14.21	24.01	18.79
Value Added	1.73	22.36	20.44	1.83	-5.59	31.76	-2.18	15.08	-2.30	-1.42
BEP.UN (Infrastructure)	-	-	-	-	-	-	-	-	-	-
FTSE Global Core Infrastructure 50/50 Index	7.92	8.73	-3.63	15.80	4.93	10.41	14.51	14.21	24.01	18.79
Value Added	-	-	-	-	-	-	-	-	-	-

<sup>1</sup>Parentheses contain percentile rankings. (1st percentile is the best performing). All returns are reported gross of fees.

<sup>2</sup> CPI+3.5% benchmark has been implemented since February 2022. CPI+3.6% benchmark has been implemented retrospectively since 1 November 2018. From 1 January 2017 to 31 October 2018, CPI+3.5% benchmark was used. From 1 January 2016 to 31 December 2016, CPI + 3.7% benchmark was used. From 1 January 2014 to 31 December 2016, CPI+3.7% benchmark

was used. Prior to 1 January 2014, CPI+3.85% benchmark was used.

<sup>3</sup>There was no exposure to Canadian Equities from January 2012 to April 2012.

<sup>4</sup>TD Emerald Canadian Equity Index added July 2020. Returns prior to these dates are presentative only.

<sup>5</sup>Returns for Sionna before May 2012, Oldfield before July 2011, Trilogy before April 2008 and Walter Scott before July 2009 are based on composite returns.

<sup>6</sup>The global equities return prior to August 2018 includes Trilogy.

<sup>7</sup>In November 2016, TD Emerald U.S. pooled and International Index funds were added. Returns prior to these dates are representative only.

<sup>8</sup>The Currency Overlay was discontinued on 20 November 2017.

9In August 2021, RBC Global Focus Equity and Mirova Sustainable Global Equity strategies were added. Returns prior to these dates are representative only.

<sup>10</sup>Total Fund Benchmark was implemented as a performance objective in February 2022. Due to licensing constraints FTSE Global Infrastructure 50/50 Index is used in place of UBS 50/50

<sup>11</sup>Global Equity Benchmark is 100% MSCI ACWI as of February 2022. Prior Benchmark was MSCI World. <sup>12</sup>Newly added fund, quarterly returns will be reported on starting Q3 2022. AON Empower Results®

## Performance Summary (Net of Fees)

As of 30 June 2022

		Performance (%)							
	1 Quarter	Year To Date	1 Year	2 Years	3 Years	4 Years	5 Years	10 Years	15 Years
Total Fund	-9.81	-14.63	-9.16	2.00	2.49	3.43	3.87	6.09	4.84
CPI + 3.5% <sup>2</sup>	3.57	8.02	11.92	9.26	7.54	7.05	6.85	5.90	5.68
Value Added	-13.38	-22.65	-21.08	-7.26	-5.05	-3.62	-2.98	0.19	-0.84
Total Fund Benchmark <sup>10</sup>	-10.19	-14.34	-8.89	2.67	3.32	4.16	4.81	7.32	-
Value Added	0.38	-0.29	-0.27	-0.67	-0.83	-0.73	-0.94	-1.23	-
Canadian Equities <sup>3</sup>	-13.15	-9.86	-4.97	12.69	3.17	2.95	4.35	7.06	-
S&P/TSX Composite Index	-13.19	-9.87	-3.87	13.43	7.97	6.93	7.62	8.18	5.12
Value Added	0.04	0.01	-1.10	-0.74	-4.80	-3.98	-3.27	-1.12	-
TD Emerald Canadian Equity Index <sup>4</sup>	-13.15	-9.86	-3.90	13.42	-	-	-	-	-
S&P/TSX Composite Index	-13.19	-9.87	-3.87	13.43	7.97	6.93	7.62	8.18	5.12
Value Added	0.04	0.01	-0.03	-0.01	-	-	-	-	-
Global Equities <sup>6</sup>	-12.99	-22.22	-13.95	1.71	2.15	3.37	5.23	10.35	4.10
Global Equity Benchmark <sup>11</sup>	-12.47	-18.08	-8.94	8.46	8.67	8.46	9.70	14.37	8.69
Value Added	-0.52	-4.14	-5.01	-6.75	-6.52	-5.09	-4.47	-4.02	-4.59
Walter Scott <sup>5</sup>	-12.92	-21.53	-12.78	3.41	5.37	7.00	8.85	12.37	8.55
MSCI World Index (Net) (CAD)	-13.44	-18.96	-10.81	6.28	6.50	6.31	7.52	12.12	6.55
Value Added	0.52	-2.57	-1.97	-2.87	-1.13	0.69	1.33	0.25	2.00
RBC Global Focus Equity <sup>8</sup>	-13.04	-23.65	-16.54	5.12	6.81	7.12	10.10	-	-
MSCI AC World Index (Net)	-12.90	-18.63	-12.28	5.48	5.72	5.58	6.86	11.35	6.15
Value Added	-0.14	-5.02	-4.26	-0.36	1.09	1.54	3.24	-	-

<sup>1</sup>Parentheses contain percentile rankings. (1st percentile is the best performing). All returns are reported gross of fees.

<sup>2</sup> CPI+3.5% benchmark has been implemented since February 2022. CPI+3.6% benchmark has been implemented retrospectively since 1 November 2018. From 1 January 2017 to 31 October 2018, CPI+3.5% benchmark was used. From 1 January 2016 to 31 December 2016, CPI+3.7% benchmark was used. From 1 January 2014 to 31 December 2016, CPI+3.75% benchmark was used. Prior to 1 January 2014, CPI+3.85% benchmark was used.

<sup>3</sup>There was no exposure to Canadian Equities from January 2012 to April 2012.

<sup>4</sup>TD Emerald Canadian Equity Index added July 2020. Returns prior to these dates are presentative only.

5Returns for Sionna before May 2012, Oldfield before July 2011, Trilogy before April 2008 and Walter Scott before July 2009 are based on composite returns.

<sup>6</sup>The global equities return prior to August 2018 includes Trilogy.

<sup>7</sup>In November 2016, TD Emerald U.S. pooled and International Index funds were added. Returns prior to these dates are representative only.

<sup>8</sup>The Currency Overlay was discontinued on 20 November 2017.

<sup>9</sup>In August 2021, RBC Global Focus Equity and Mirova Sustainable Global Equity strategies were added. Returns prior to these dates are representative only.

<sup>10</sup>Total Fund Benchmark was implemented as a performance objective in February 2022. Due to licensing constraints FTSE Global Infrastructure 50/50 Index is used in place of UBS 50/50



## **Performance Summary (Net of Fees)**

As of 30 June 2022

				Р	erformance (%	%)			
	1 Quarter	Year To Date	1 Year	2 Years	3 Years	4 Years	5 Years	10 Years	15 Years
Mirova Global Sustainable Equity <sup>8</sup>	-12.77	-23.43	-15.55	2.99	8.59	9.31	10.40	-	-
MSCI AC World Index (Net)	-12.90	-18.63	-12.28	5.48	5.72	5.58	6.86	11.35	6.15
Value Added	0.13	-4.80	-3.27	-2.49	2.87	3.73	3.54	-	-
U.S. Equities									
TD Emerald Pooled U.S. Fund <sup>7</sup>	-13.33	-18.23	-6.87	9.13	10.07	9.96	11.10	-	-
S&P 500 (CAD)	-13.35	-18.26	-6.89	9.17	10.12	10.02	11.16	15.65	9.94
Value Added	0.02	0.03	0.02	-0.04	-0.05	-0.06	-0.06	-	-
International Equities									
TD Emerald International Equity Index <sup>7</sup>	-11.62	-17.78	-14.22	1.59	0.70	0.65	2.13	7.97	2.81
MSCI EAFE (Net)	-11.71	-17.86	-14.34	1.53	0.64	0.58	2.06	7.91	2.73
Value Added	0.09	0.08	0.12	0.06	0.06	0.07	0.07	0.06	0.08
Fixed Income	-3.65	-8.64	-8.35	-4.38	-1.01	0.72	0.71	-	-
TDAM Universe Bond Index	-5.66	-12.23	-11.42	-7.16	-2.43	-0.09	0.05	1.59	3.31
FTSE Canada Universe Bond	-5.66	-12.23	-11.39	-7.02	-2.30	0.03	0.18	1.72	3.44
Value Added	0.00	0.00	-0.03	-0.14	-0.13	-0.12	-0.13	-0.13	-0.13
TDAM Active Short Term Corporate	-1.81	-5.20	-5.45	-1.72	0.25	1.38	1.22	-	-
FTSE Canada Short Term Corporate Bond	-1.88	-5.21	-5.39	-1.59	0.39	1.50	1.36	2.07	3.33
Value Added	0.07	0.01	-0.06	-0.13	-0.14	-0.12	-0.14	-	-

<sup>1</sup>Parentheses contain percentile rankings. (1st percentile is the best performing). All returns are reported gross of fees.

<sup>2</sup> CPI+3.5% benchmark has been implemented since February 2022. CPI+3.6% benchmark has been implemented retrospectively since 1 November 2018. From 1 January 2017 to 31 October 2018, CPI+3.5% benchmark was used. From 1 January 2016 to 31 December 2016, CPI + 3.7% benchmark was used. From 1 January 2014 to 31 December 2016, CPI+3.75% benchmark was used. Prior to 1 January 2014, CPI+3.85% benchmark was used.

<sup>3</sup>There was no exposure to Canadian Equities from January 2012 to April 2012.

<sup>4</sup>TD Emerald Canadian Equity Index added July 2020. Returns prior to these dates are presentative only. <sup>5</sup>Returns for Sionna before May 2012, Oldfield before July 2011, Trilogy before April 2008 and Walter Scott before July 2009 are based on composite returns.

<sup>6</sup>The global equities return prior to August 2018 includes Trilogy.

<sup>7</sup>In November 2016, TD Emerald U.S. pooled and International Index funds were added. Returns prior to these dates are representative only.

<sup>8</sup>The Currency Overlay was discontinued on 20 November 2017.

9 In August 2021, RBC Global Focus Equity and Mirova Sustainable Global Equity strategies were added. Returns prior to these dates are representative only.

<sup>10</sup>Total Fund Benchmark was implemented as a performance objective in February 2022. Due to licensing constraints FTSE Global Infrastructure 50/50 Index is used in place of UBS 50/50



#### **Executive Summary**

	Rolling Year Performance (Net of Fees)									
As of 30 June 2022										
	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Total Fund	-9.16	14.54	3.48	6.29	5.65	9.68	3.72	10.47	12.34	5.76
CPI + 3.5% <sup>2</sup>	11.92	6.67	4.18	5.59	6.04	4.54	5.05	4.57	5.94	4.69
Value Added	-21.08	7.87	-0.70	0.70	-0.39	5.14	-1.33	5.90	6.40	1.07
Total Fund Benchmark <sup>10</sup>	-8.89	15.71	4.63	6.69	7.46	9.34	3.89	8.96	17.61	10.12
Value Added	-0.27	-1.17	-1.15	-0.40	-1.81	0.34	-0.17	1.51	-5.27	-4.36
Canadian Equities <sup>3</sup>										
TD Emerald Canadian Equity Index <sup>4</sup>	-3.87	33.88	-2.19	3.86	10.37	10.99	-0.21	-1.13	28.57	7.90
S&P/TSX Composite Index	-3.87	33.85	-2.17	3.87	10.41	11.05	-0.20	-1.16	28.66	7.90
Value Added	0.00	0.03	-0.02	-0.01	-0.04	-0.06	-0.01	0.03	-0.09	0.00
Global Equities <sup>6</sup>	-13.95	20.21	3.03	7.12	13.00	21.17	-1.09	18.57	21.21	20.46
Global Equity Benchmark	-8.94	29.18	9.09	7.86	14.77	20.20	3.48	21.25	27.75	25.13
Value Added	-5.01	-8.97	-6.06	-0.74	-1.77	0.97	-4.57	-2.68	-6.54	-4.67
Walter Scott⁵	-12.78	22.62	9.39	12.06	16.58	15.26	6.54	19.78	19.22	19.77
MSCI World Index (Net) (CAD)	-10.81	26.64	6.95	5.74	12.52	17.84	1.45	18.88	25.25	22.67
Value Added	-1.97	-4.02	2.44	6.32	4.06	-2.58	5.09	0.90	-6.03	-2.90
RBC Global Focus Equity <sup>8</sup>	-16.54	32.42	10.27	8.06	22.85	19.27	4.29	25.76	-	-
MSCI AC World Index (Net)	-12.28	26.85	6.19	5.16	12.15	18.43	0.46	18.03	24.14	20.59
Value Added	-4.26	5.57	4.08	2.90	10.70	0.84	3.83	7.73	-	-
Mirova Global Sustainable Equity <sup>8</sup>	-15.55	25.60	20.71	11.52	14.88	18.31	2.51	19.11	-	-
MSCI AC World Index (Net)	-12.28	26.85	6.19	5.16	12.15	18.43	0.46	18.03	24.14	20.59
Value Added	-3.27	-1.25	14.52	6.36	2.73	-0.12	2.05	1.08	-	-

Parentheses contain percentile rankings. (1st percentile is the best performing). All returns are reported gross of fees.

<sup>2</sup> CPI+3.5% benchmark has been implemented since February 2022. CPI+3.6% benchmark has been implemented retrospectively since 1 November 2018. From 1 January 2017 to 31 October 2018, CPI+3.5% benchmark was used. From 1 January 2016 to 31 December 2016, CPI + 3.7% benchmark was used. From 1 January 2014 to 31 December 2016, CPI+3.7% benchmark was used. was used. Prior to 1 January 2014, CPI+3.85% benchmark was used.

<sup>3</sup>There was no exposure to Canadian Equities from January 2012 to April 2012.

<sup>4</sup>TD Emerald Canadian Equity Index added July 2020. Returns prior to these dates are presentative only. <sup>5</sup>Returns for Sionna before May 2012, Oldfield before July 2011, Trilogy before April 2008 and Walter Scott before July 2009 are based on composite returns.

<sup>6</sup>The global equities return prior to August 2018 includes Trilogy.

<sup>7</sup>In November 2016, TD Emerald U.S. pooled and International Index funds were added. Returns prior to these dates are representative only.

<sup>8</sup>The Currency Overlay was discontinued on 20 November 2017.

<sup>10</sup>Total Fund Benchmark was implemented as a performance objective in February 2022. Due to licensing constraints FTSE Global Infrastructure 50/50 Index is used in place of UBS 50/50



#### **Executive Summary**

Rolling Year Performance (Net of Fees)										
As of 30 June 2022										
	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
U.S. Equities										
TD Emerald Pooled U.S. Fund <sup>7</sup>	-6.87	27.88	11.98	9.63	15.75	17.76	8.10	-	-	-
S&P 500 (CAD)	-6.89	28.01	12.05	9.69	15.85	17.90	8.18	25.91	25.81	24.80
Value Added	0.02	-0.13	-0.07	-0.06	-0.10	-0.14	-0.08	-	-	-
International Equities										
TD Emerald International Equity Index <sup>7</sup>	-14.22	20.32	-1.07	0.51	8.28	20.21	-6.50	12.42	24.81	22.89
MSCI EAFE (Net)	-14.34	20.33	-1.12	0.41	8.22	20.27	-6.55	12.26	24.77	22.76
Value Added	0.12	-0.01	0.05	0.10	0.06	-0.06	0.05	0.16	0.04	0.13
Fixed Income	-8.29	-0.22	6.08	6.12	0.71	-2.49	2.10	-	-	-
TDAM Universe Bond Index	-11.42	-2.68	7.74	7.27	0.62	-0.15	5.13	6.24	5.14	-0.35
FTSE Canada Universe Bond Index - C\$	-11.39	-2.43	7.88	7.36	0.76	0.02	5.21	6.25	5.34	-0.17
Value Added	-0.03	-0.25	-0.14	-0.09	-0.14	-0.17	-0.08	-0.01	-0.20	-0.18
TDAM Active Short Term Corporate	-5.45	2.15	4.31	4.84	0.62	1.38	2.00	-	-	-
FTSE Canada Short Term Corporate Bond	-5.39	2.36	4.47	4.90	0.80	1.49	1.98	3.71	4.04	2.69
Value Added	-0.06	-0.21	-0.16	-0.06	-0.18	-0.11	0.02	-	-	-

Parentheses contain percentile rankings. (1st percentile is the best performing). All returns are reported gross of fees.

<sup>2</sup> CPI+3.5% benchmark has been implemented since February 2022. CPI+3.6% benchmark has been implemented retrospectively since 1 November 2018. From 1 January 2017 to 31 October 2018, CPI+3.5% benchmark was used. From 1 January 2016 to 31 December 2016, CPI + 3.7% benchmark was used. From 1 January 2014 to 31 December 2016, CPI+3.7% benchmark was used. was used. Prior to 1 January 2014, CPI+3.85% benchmark was used.

<sup>3</sup>There was no exposure to Canadian Equities from January 2012 to April 2012.

<sup>4</sup>TD Emerald Canadian Equity Index added July 2020. Returns prior to these dates are presentative only. <sup>5</sup>Returns for Sionna before May 2012, Oldfield before July 2011, Trilogy before April 2008 and Walter Scott before July 2009 are based on composite returns.

<sup>6</sup>The global equities return prior to August 2018 includes Trilogy.

<sup>7</sup>In November 2016, TD Emerald U.S. pooled and International Index funds were added. Returns prior to these dates are representative only.

<sup>8</sup>The Currency Overlay was discontinued on 20 November 2017.

<sup>10</sup>Total Fund Benchmark was implemented as a performance objective in February 2022. Due to licensing constraints FTSE Global Infrastructure 50/50 Index is used in place of UBS 50/50



# **Green Shield Canada – Implementation Project**

New Provider for Extended Health and Dental Benefits effective January 1, 2023

## Background

The provider market for the Long-Term Disability (LTD), Extended Health, and Dental (EHD) benefits was reviewed through a Request for Proposal (RFP) process that commenced June 2021. In October 2022, the Pension & Benefits Committee approved engaging Sun Life Financial to insure the LTD benefit effective May 1, 2022, and Green Shield Canada (GSC) to administer the EHD benefits effective January 1, 2023 (thereby cancelling the LTD and EHD contracts with Canada Life).

The implementation of Sun Life Financial was successful effective May 1, 2022 with the first LTD claims being submitted in late August/early September with a commencement date in late October/early November due to the corresponding "elimination period". Human Resources (HR) will continue to work with Canada Life to ensure the ongoing successful management of open LTD claims incurred between May 1, 2008 and April 30, 2022; similarly, Manulife Financial with respect to open LTD claims incurred prior to May 1, 2008.

HR is currently working with GSC to support the implementation of their services for the EHD benefits effective January 1, 2023 as well as the termination of Canada Life's services effective December 31, 2022. Eligible EHD expenses incurred on or before December 31, 2022 will need to be received by Canada Life by February 28, 2023 to enable claims processing under the Canada Life contract. Unlike the LTD benefit, following receipt of our final ASO billing from Canada Life in the first quarter of 2023, only one EHD provider will be in place.

The purpose of this update is to provide information to support the GSC implementation, including details on aspects that differ from current administrative arrangements and to seek direction with regards to any options that may exist. Where decisions are required, GSC requires confirmation by late October/early November in order to prepare for the January 1, 2023 implementation of their services.

# **GSC Claims Adjudication – Transition Analysis**

As required through the RFP process, GSC will match the existing EHD benefits plan design in terms of maximums and coinsurance levels; however, every benefits provider has differences in terms of administration (i.e. reasonable and customary charges, technology capabilities, and other policies/practices) that apply to the adjudication decisions. To identify these differences, GSC conducted an initial transition analysis by reprocessing claims processed by Canada Life for the July 2021 to June 2022 period within their claims adjudication system to identify any differences in outcome. A second transition analysis will be performed in November 2022 with "top up" claims data to identify additional issues, if any.

The result of GSC's initial transition analysis demonstrates that there are a few items which require awareness and understanding and/or decisions by the Pension & Benefits Committee to move forward, as follows:

Items Identified
Action
Decision Required
Option 1 (Recommended): All participants with previously paid prior authorization drugs will be "grandparented" to ensure no interruption of treatment Option 2: Allow a one-time exception and GSC's approval required for any subsequent claims
Option 3: GSC's approval required for all prescriptions in this category to enable reimbursement on or after January 1, 2023 (will not be "grandparented")
Decision Required
Option 1 (Recommended): GSC to send a letter any with a previously paid claim for Oxycodone advising that should they have a need for ongoing pain treatment with a long-acting formulation of oxycodone, they need to switch to OxyNEO® Option 2: Allow a one-time exception to allow one last claim to be paid and future claims would be ineligible (exceptions loaded into GSC's system at the participant level) Option 3: Allow an ongoing exception to continue reimbursement for this medication (exceptions loaded into GSC's system at the participant level)

3. Over the Counter (OTC) Drugs	Decision Required
OTC drugs are not eligible for reimbursement under the current extended health benefit's plan design; however, Canada Life provided reimbursement to 70 participants in the amount of approximately \$8,500.	Option 1 (Recommended): Allow a one-time exception where the member can receive reimbursement for one more claim. Going forward, not an eligible expense. GSC to mail a communication to be members to inform them
	Option 2: Allow an ongoing exception to continue reimbursement for those members identified in the transition analysis
	Option 3: Do not allow an exception. GSC to send a letter to the member to inform them that OTC drugs are not covered under the benefit plan design
4. Natural Health Products (NHPs)	Decision Required
NHPs are not eligible for reimbursement under the current extended health benefit's plan design; however, Canada Life provided reimbursement to 2 participants in the amount of approximately \$30.	Option 1 (Recommended): Allow a one-time exception where the member can receive reimbursement for one more claim. Going forward, not an eligible expense. GSC to mail a communication to be members to inform them
	Option 2: Allow an ongoing exception to continue reimbursement for those members identified in the transition analysis
	Option 3: Do not allow an exception. GSC to send a letter to the member to inform them that NHPs are not covered under the benefit plan design
5. Finasteride (Proscar)	Decision Required
This drug is used to treat symptoms of benign prostatic hyperplasia (BPH) in men with an enlarged prostate. This medication is only eligible for males over the age of 50 or males that are diagnosed with BPH. Canada Life provided reimbursement to 8 members who are under the age of 50 and/or are not male in the amount of approximately \$350.	Recommendation is to send a letter to the members identified in the transition analysis to request proof from the physician that indicates that the medication is being used for BPH. In these cases, GSC will provide reimbursement on an ongoing basis; however, if the member does not have BPH, the following options exist:

	<ul> <li>Option 1 (Recommended): Allow a one-time exception for this specific DIN for the specific members outlined in the analysis. GSC to mail letter to member to advise of the one-time exception.</li> <li>Option 2: Allow an ongoing exception for this specific DIN for the specific members outlined in the analysis.</li> <li>Option 3: Do not allow an exception. GSC to send letter to member advising this medication is no longer covered by the extended health benefit.</li> </ul>
6. Flonase (and its generic equivalent)	Decision required
There are two different versions of this product; one for children ages 4-17 (requires prescription) and one for adults 18 or older (does not require prescription/OTC drug).	Option 1 (Recommended): Allow a one-time exception where the member can receive reimbursement for one more claim. GSC to mail letter to member to advise of the one-time exception.
Canada Life provided reimbursement to 69 adult participants in the amount of approximately \$6,400.	Option 2: Allow an ongoing exception for this specific DIN for the specific members outlined in the analysis.
	Option 3: Do not allow an exception. GSC to send letter to member advising this medication is no longer covered by the extended health benefit.
7. Gardasil	Decision Required
As per Health Canada guidelines, Gardasil is eligible for participants between age 9 and 45.	Recommendation is to allow these specific members to continue coverage for their remaining doses (maximum of 3 doses). GSC will proactively apply a participant exception to allow
Canada Life provided reimbursement to 50 participants outside of this age parameter in the amount of approximately \$14,000.	continuation of coverage. New claimants must fall within the Health Canada guideline in order to be eligible for reimbursement.
8. Compounds	<b>None at this time</b> – awaiting further information from GSC (including the Compound Policy fact sheet). Update to be
GSC Policy: Compounds that are not available commercially that must be prepared by a pharmacist (could be oral, topical, or injectable). Compound mixtures have not undergone the same level of safety and efficacy trials and testing as an approved drug with a DIN. GSC developed its compound policy	provided at the October 7, 2022 meeting.

<ul> <li>in 1996. Its purpose is to ensure that the drug plan supports legitimate, efficacious products compounded in a pharmacy setting.</li> <li>GSC has identified some ingredients that appear to be part of a compound based on the description from the claims history files; however, GSC cannot accurately confirm eligibility since they do not have all of the ingredients.</li> <li>GSC's initial analysis indicates that Canada Life provided payment to 339 members for prescriptions in the amount of \$63,000 that would require</li> </ul>	
review. Prior authorization does not apply to compounds; however, pharmacists may choose to call in to verify compound eligibility prior to dispensing (in order to be eligible, it must follow GSC's compound policy).	
9. Viscosupplementation	None required – information only
This is therapeutic treatment involving intra-articular injections of hyaluronic acid and related compounds. The procedure is used for the treatment of osteoarthritis to restore the viscoelasticity of synovial fluid, decrease pain, improve mobility and restore the natural protective functions of hyaluronan in the joint. Treatment last 6-9 months and requires needs to be repeated frequently. It is not a permanent cure but provides temporary relief; prescribed as a trial as a preferred alternative to surgery. Cost amounts to approximately \$500 per treatment (consists of 1-3 injections, depending on the brand). Health Canada considers these to be medical devices/procedures and as such, there is no DIN assigned to these injections. GSC categorizes this benefit as medical coverage; however, Canada Life processed these claims under the prescription drug benefit. GSC will provide reimbursement in accordance with Health Canada's categorization of the expenses (i.e. not a prescription drug).	
GSC's initial analysis indicates that Canada Life provided payment to 48 members for prescriptions in the amount of \$28,000 that would require prior authorization.	

<ul> <li>10. Provincially Covered Medication (Herceptin and Keytruda)</li> <li>Both of these medications are covered in full by Cancer Care Ontario and therefore ineligible for reimbursement with GSC. If not being funded by the province, it's likely being used for an indication that's off label.</li> <li>Canada Life has provided reimbursement for one member to receive Herceptin (16 claims) on an exception basis and one member to receive Keytruda (2 claims) on an exception basis. On a combined basis, the amount reimbursed amounts to approximately \$71,000.</li> </ul>	None at this time – awaiting further information from GSC and Canada Life. Update to be provided at the October 7, 2022 meeting.
11. Migraine Policy	None required – information only
<ul> <li>GSC applies limitations on migraine medications to ensure that plan members do not exceed the recommended dosing and duration of use guidelines for migraine therapy:</li> <li>Oral triptans: 36 tablets every 90 days</li> <li>Overall yearly maximum of \$2,800 based on first paid claim (applies to all migraine therapy products including the oral triptans)</li> <li>Once a plan member's claims are close to reaching the maximum amount allowed, a letter will automatically be sent by GSC to the member explaining the policy and there may be interruption in coverage for migraine medication if the maximum is exceeded. The letter will also advise that if additional medication to treat the condition is required, supporting documentation from their physician can be submitted.</li> <li>The initial transition analysis indicates that there are 6 members who will be affected by this policy through the transition. GSC will issue a letter as they approach the maximum.</li> </ul>	

12. Narcotic Policy	None required – information only
This feature places limits on the narcotic group of drugs which includes OxyContin. The maximum amount is a "morphine equivalent" threshold which refers to the overall opioid dose. This maximum (\$1500 in 90 days at present) is based on prescribing guidelines. Once a member reaches the maximum threshold, a letter is sent to them automatically, requesting that they submit to GSC written documentation from their physician to continue to receive coverage for narcotic pain medication.	
The initial transition analysis indicates that there are no members who will be affected by this policy through the transition.	
Reasonable & Customary (R&C) Charges	Action
<ul> <li>GSC independently determines reasonable reimbursement levels for all covered health services and major medical equipment based on their annual review of rendered amounts, manufacturers' pricing, and provincial and association pricing. GSC reimburses the lesser of either the submitted or the allowed unit cost per service or device.</li> <li>The initial transition analysis demonstrates that Canada Life's R&amp;C limits differ from GSC's which is expected since each provider maintains independently; however, specific details are not yet available.</li> </ul>	None at this time – awaiting further information from GSC. Update to be provided at the October 7, 2022 meeting.
Dental Services	Action
Facility fees and other "non-dental" Procedures Most "generally excluded" codes are indicated as such when they are not part of standard dentistry, considered to be included in primary dental procedure, or there is no/insufficient therapeutic value or scientific evidence of efficacy of a procedure either on it own or with any procedure. In accordance with the current plan design, GSC will consider these expenses as ineligible as they are not true dental procedures. GSC Contact Centre representatives are equipped to answer inquiries about ineligibility of these dental procedures.	None required – information only

Analysis indicates that Canada Life provided reimbursement to 87 members for "facility fees" or "therapeutic intravenous drug injection" in the amount of approximately \$10,000. The analysis also identified two general procedure codes used for reimbursement to 713 members in the amount of	
approximately \$126,000; more information has been requested from Canada Life to support further analysis by GSC.	

# **Communications and Change Management**

HR has created a benefit implementation <u>website</u> to inform the University community on this project, including key milestones, important announcements, and essential action items that EHD benefit participants must complete to support the change from Canada Life to GSC. In addition, the communications plan includes the following activity:

- August 29, 2022 initial announcement released by email to employees and retirees with EHD benefits
- Late September registration details for Information Sessions will be released to the community virtual and in person options (recording to be posted to the website)
- Late September/early October letter to be mailed to home addresses for specific groups who may not have access to email, with the announcement information as well as registration details for information sessions
- GSC welcome kits to be assembled and mailed to member home addresses

Action Required: None – information only