

QUARTERLY INVESTMENT REPORT

September 30, 2020

Assets Under Management

as at September 30, 2020	\$ 50,920 million
as at June 30, 2020	\$ 49,748 million

Asset Mix

	Policy Asset Mix (%)	September 30, 2020 (CAD millions)	September 30, 2020 (%)	June 30, 2020 (CAD millions)	June 30, 2020 (%)
Fixed Income	30.5	16,314	32.0	15,774	31.7
Inflation Sensitive & Alternatives	30.0	12,420	24.4	12,663	25.5
Canadian Equity	8.0	4,153	8.2	4,025	8.1
Global Developed Equity	15.0	10,477	20.6	9,523	19.1
Emerging Markets Equity	5.5	2,870	5.6	2,819	5.7
Global Small Cap Equity	5.0	2,391	4.7	2,306	4.6
Private Equity	6.0	1,866	3.7	1,815	3.6
Overlays	0.0	186	0.3	202	0.5
LAPP Downside Protection Strategy (DPS)	0.0	243	0.5	621	1.2
	100.0	50,920	100.0	49,748	100.0

Performance Summary

		Q3 2020 (%)	YTD (%)	1 Year (%)	4 Year (%)
Without LAPP Downside Protection Strategy (DPS)	LAPP	2.89	(0.36)	2.51	5.89
	Policy Benchmark	2.26	4.70	7.22	6.60
	Excess Returns	0.64	(5.06)	(4.72)	(0.71)
With LAPP Downside Protection Strategy (DPS)	LAPP	2.10	0.41	3.30	6.10
	Policy Benchmark	2.26	4.70	7.22	6.60
	Excess Returns	(0.16)	(4.29)	(3.92)	(0.50)

Note: Performance net of fees

Note: The LAPP Downside Protection Strategy was put in place through the direction of LAPP Corporation in early 2020 with the intention of providing a measure of protection for the LAPP portfolio in the event of a market downturn.

QUARTERLY INVESTMENT REPORT
September 30, 2020

Investment Performance by Calendar Years (with LAPP Downside Protection)

Asset Category	Asset/Sub-Asset Category Benchmark	2020		Calendar Years		
		Q3 (%)	YTD (%)	2019 (%)	2018 (%)	2017 (%)
Total	Fund (including effects of DPS)	2.1	0.4	11.9	2.0	10.1
	Policy Benchmark	2.3	4.7	12.5	1.0	9.0
Fixed Income	Asset Category Total	0.9	9.7	9.6	1.8	5.0
	Asset Category Benchmark	(0.0)	9.7	9.2	1.0	4.3
	Short Term and Cash	0.1	0.9	2.0	1.6	1.0
	FTSE TMX Canada 91 day T Bill Index	0.1	0.8	1.7	1.4	0.6
	Universe Bonds	1.4	8.6	7.8	1.9	3.3
	FTSE TMX Canada Universe Bond Index	0.4	8.0	6.9	1.4	2.5
	Long Bonds	0.3	12.0	12.8	0.9	7.6
	FTSE TMX Canada L.T. Govt. Bond Index	(0.5)	11.8	12.2	0.5	6.5
	Private Debt & Loan	1.2	2.6	4.4	4.0	2.3
	FTSE TMX Canada Universe Bond Index	0.4	8.0	6.9	1.4	2.5
	Private Mortgages	2.1	8.3	6.0	4.7	2.5
	FTSE TMX Canada Universe Bond Index	0.4	8.0	6.9	1.4	2.5
Inflation Sensitive & Alternatives	Asset Category Total	(0.7)	(5.5)	6.0	12.9	8.1
	Asset Category Benchmark	(0.2)	0.7	5.3	8.1	5.7
	Real Estate	(1.7)	(8.0)	3.8	12.4	9.1
	Real Estate Index ⁱ	(1.6)	(2.5)	4.6	9.5	7.0
	Canadian Real Estate	(2.2)	(9.0)	5.5	11.5	8.5
	Canadian Real Estate Index ⁱⁱ	(2.2)	(4.6)	6.2	7.7	7.0
	Foreign Real Estate	(0.7)	(5.7)	0.1	14.7	10.9
	Foreign Real Estate Index ⁱⁱⁱ	(0.7)	2.0	1.1	14.0	7.0
	Private Infrastructure	1.3	(2.4)	7.7	13.8	7.9
	Private Infrastructure Index ^{iv}	1.5	4.5	6.2	6.2	6.0
	Renewable Resources	(5.3)	(4.6)	14.2	12.4	15.7
	Renewable Resources Index ^v	1.5	4.5	6.2	6.2	6.0
Short Horizon	Asset Category Total	6.5	(6.2)	18.6	(4.8)	15.9
	Asset Category Benchmark	5.8	2.0	20.2	(3.6)	14.7
	Canadian Equity	5.5	(12.2)	20.8	(10.1)	10.5
	S&P/TSX Capped Composite Index	4.7	(3.1)	22.9	(8.9)	9.1
	Global Developed Equity	6.9	(3.3)	20.3	(1.7)	16.2
	MSCI World Index	5.9	4.8	21.2	(0.5)	14.4
	Emerging Markets	8.3	(7.1)	10.6	(8.2)	30.4
	MSCI Emerging Markets Index	7.4	1.8	12.4	(6.9)	28.3
	Small Cap Equity	3.7	(10.8)	17.2	(7.2)	14.1
	Small Cap Equity Index ^{vi}	5.4	(3.6)	19.8	(6.1)	15.0
Long Horizon	Private Equity	9.5	3.7	4.1	11.7	0.7
	CPI 1 month lagged + 650 bps (5-yr rolling average) ^{vii}	2.0	5.9	8.2	8.2	8.0
Overlays	Opportunistic Investments	(0.1)	(7.5)	17.0	4.6	8.3
LAPP-Directed Trades	LAPP Downside Protection Strategy ^{viii} (Contribution to Total Fund Return)	(0.7)	0.5	-	-	-

QUARTERLY INVESTMENT REPORT
September 30, 2020

Investment Performance by Annualized Years (with LAPP Downside Protection)

Asset Category	Asset/Sub-Asset Category Benchmark	2020		Annualized Years		
		YTD (%)	1 (%)	2 (%)	3 (%)	4 (%)
Total	Fund (including effects of DPS)	0.4	3.3	5.6	6.3	6.1
	Policy Benchmark	4.7	7.2	7.3	7.4	6.6
Fixed Income	Asset Category Total	9.7	8.4	10.7	8.1	4.8
	Asset Category Benchmark	9.7	8.1	10.6	7.8	4.2
	Short Term and Cash	0.9	1.3	1.6	1.6	1.4
	FTSE TMX Canada 91 day T Bill Index	0.8	1.3	1.5	1.4	1.1
	Universe Bonds	8.6	7.9	9.0	6.7	4.5
	FTSE TMX Canada Universe Bond Index	8.0	7.1	8.4	6.1	3.8
	Long Bonds	12.0	9.6	13.5	10.3	6.0
	FTSE TMX Canada L.T. Govt. Bond Index	11.8	9.2	13.3	9.9	5.4
	Private Debt & Loan	2.6	4.0	4.1	3.7	3.4
	FTSE TMX Canada Universe Bond Index	8.0	7.1	8.4	6.1	3.8
Inflation Sensitive & Alternatives	Private Mortgages	8.3	7.5	8.9	6.8	4.5
	FTSE TMX Canada Universe Bond Index	8.0	7.1	8.4	6.1	3.8
	Asset Category Total	(5.5)	(2.7)	4.4	6.0	5.5
	Asset Category Benchmark	0.7	2.5	4.4	5.5	5.1
	Real Estate	(8.0)	(5.4)	1.4	4.2	4.6
	Real Estate Index ⁱ	(2.5)	(0.6)	2.8	4.6	5.2
	Canadian Real Estate	(9.0)	(6.0)	1.6	4.2	4.6
	Canadian Real Estate Index ⁱⁱ	(4.6)	(3.2)	1.9	3.8	4.6
	Foreign Real Estate	(5.7)	(4.3)	0.9	4.4	4.7
	Foreign Real Estate Index ⁱⁱⁱ	2.0	4.6	4.6	6.4	6.5
Short Horizon	Private Infrastructure	(2.4)	0.8	8.7	8.0	7.5
	Private Infrastructure Index ^{iv}	4.5	6.0	6.1	6.1	6.1
	Renewable Resources	(4.6)	(2.3)	5.9	9.3	11.0
	Renewable Resources Index ^v	4.5	6.0	6.1	6.1	6.1
	Asset Category Total	(6.2)	(0.4)	0.8	3.8	6.3
	Asset Category Benchmark	2.0	8.4	5.9	7.7	8.9
	Canadian Equity	(12.2)	(9.6)	(2.6)	(0.0)	2.4
	S&P/TSX Capped Composite Index	(3.1)	(0.0)	3.5	4.3	5.5
	Global Developed Equity	(3.3)	2.8	3.0	6.5	8.7
	MSCI World Index	4.8	11.4	7.8	10.1	10.7
Long Horizon	Emerging Markets	(7.1)	1.6	(0.0)	0.6	4.7
	MSCI Emerging Markets Index	1.8	11.5	5.8	4.7	7.5
Overlays	Small Cap Equity	(10.8)	(3.9)	(4.3)	0.9	4.0
	Small Cap Equity Index ^{vi}	(3.6)	3.7	0.2	4.6	6.8
LAPP-Directed Trades	Private Equity	3.7	7.1	3.7	6.4	5.2
	Private Equity Index ^{vii}	5.9	8.0	8.1	8.1	8.1
Overlays	Opportunistic Investments	(7.5)	3.0	3.3	6.7	10.3
LAPP-Directed Trades	LAPP Downside Protection Strategy ^{viii} (Contribution to Total Fund Return)	0.5	-	-	-	-

- i Real Estate Index: A blend of the IPD Large Institutional Index and MSCI Global Region Property Index.
- ii Canadian Real Estate Index: IPD Large Institutional Index.
- iii Foreign Real Estate Index: MSCI Global Region Property Index.
- iv Private Infrastructure Index: CPI + 450 bps (5-year rolling average), effective August 1, 2015. Prior to this time, the benchmark was S&P Global Infrastructure (Hedged C\$) +1%.
- v Renewable Resources Index: CPI + 450 bps (5-year rolling average), effective August 1, 2015. Prior to this time, the benchmark was 50% FTSE TMX Canada Real Return Bond / 50% MSCI World Index (Hedged C\$) + 1.5%.
- vi Small Cap Equity Index: 1/3 S&P/TSX Small Cap Index + 2/3 MSCI Small Cap Index.
- vii Private Equity Index: CPI + 650 bps (5-year rolling average), effective January 1, 2016. Prior to this time, the benchmark was MSCI World (Hedged C\$) + 3%.
- viii The LAPP Downside Protection Strategy was put in place by LAPP Corporation in early 2020. Please note figures for this row represent the **return contribution** to total LAPP fund return, and not the percentage return of the strategy itself in isolation.