### The Real Deal:

# Options for implementing real assets in DC plans

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Managing Director – Franklin Global Real Assets Funds
Franklin Real Asset Advisors
Calgary, Alberta, Canada

Franklin Real Asset Advisors is the global real assets arm at Franklin Templeton Institutional, LLC ("FTI LLC"), the sub-advisor to the Fund. FTI LLC is an affiliate of Franklin Templeton Investments Corp.

### **Agenda**

**Defining Real Assets** 

Unique Characteristics of Real Assets

Barriers to Real Asset Investing for the DC Market

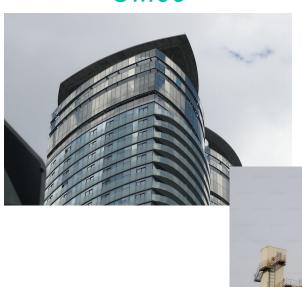
Other Factors to Consider

Risk and Return

Why Real Assets? Why now?

### **Commercial Real Estate**

Office



Industrial

Retail

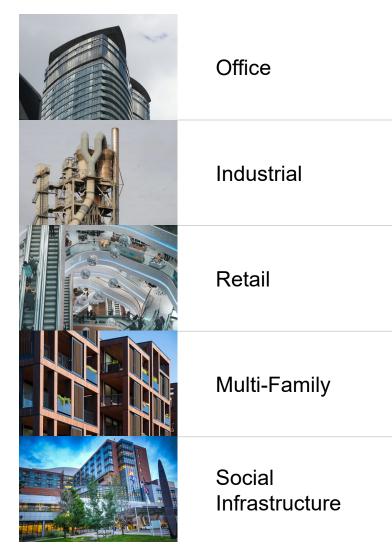






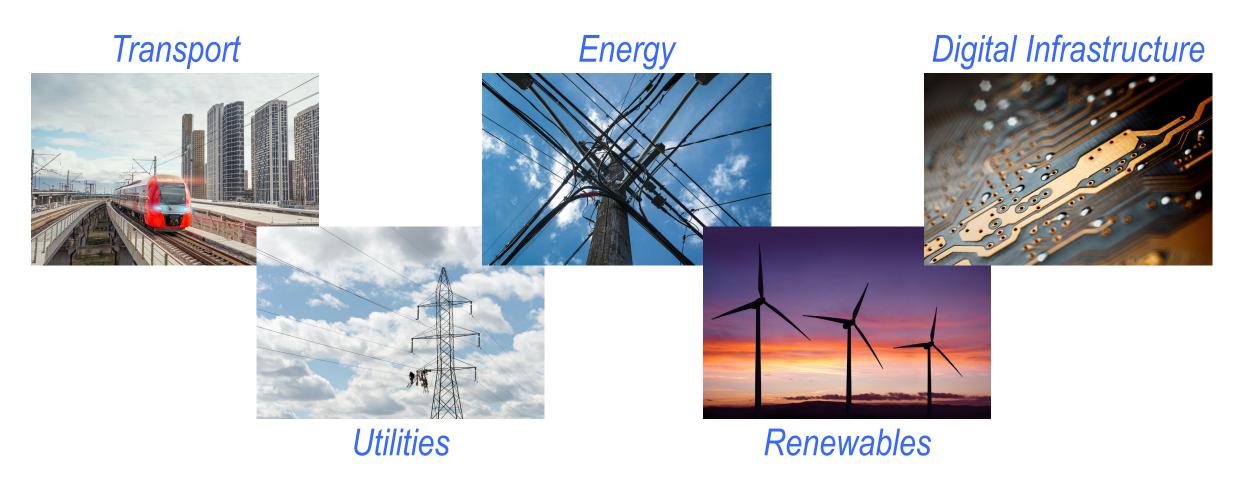
Multi-Family

#### **Commercial Real Estate**



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### Infrastructure



#### **Commercial Real Estate**



Office



Industrial

Retail

**Multi-Family** 

Social Infrastructure

#### Infrastructure



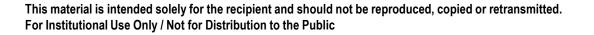
Transport

**Utilities** 

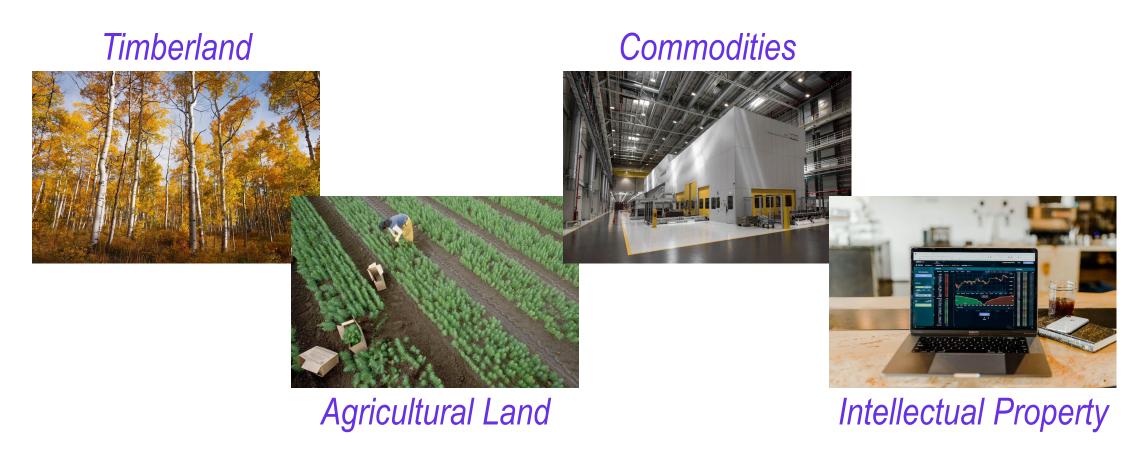
Energy

Renewables

Digital Infrastructure



### **Natural Resources**



#### **Commercial Real Estate**



Office



Industrial

Retail

Multi-Family

Social Infrastructure

#### Infrastructure



Transport

**Utilities** 

Energy

Renewables

Digital Infrastructure

#### **Natural Resources**

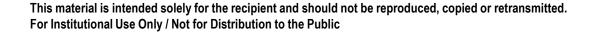


Timberland

Agricultural Land

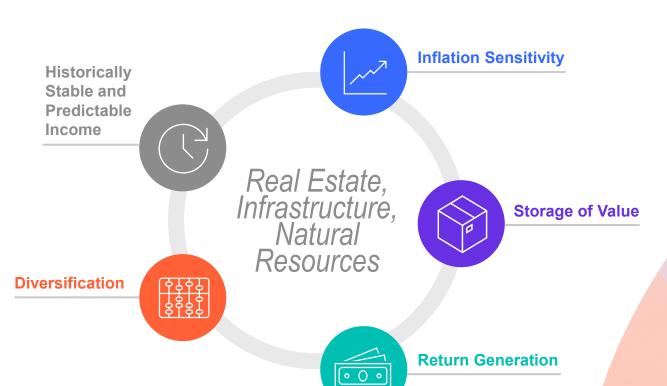
Commodities

Intellectual Property



### Who's investing in Real Assets?







BCi





CPP - Canada
Pension Plan
Investments

BCIM - British Columbia Investment Management OMERS - Ontario Municipal Employees' Retirement System

CDPQ - Caisse de dépôt et placement du Québec

27%

31%

38%

26%

#### SHEPP -

Saskatchewan Healthcare Employees' Pension Plan

25%

UBC FCC -UBC Faculty Pension Plan

SPP -Saskatchewan

Pension Plan

MEPP -Municpal Employees'

Pension Plan

PEPP -Public Employees' Pension Plan

% 10%

pepp













### **Risk Tolerances?**

- Active or Passive?
- How to benchmark performance?
- How much risk is enough?
- Core, Value-Add, or Opportunistic?
- Broad Exposure, Sector Specific or Thematic?

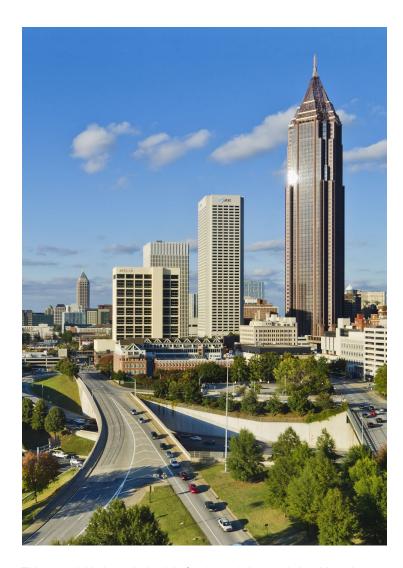




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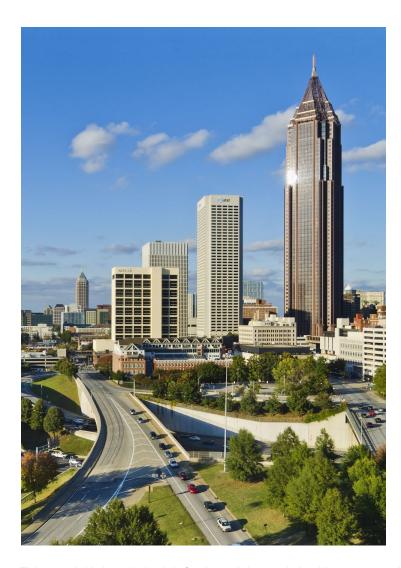




### How much?

- Adding a stand-alone real asset fund offers plan members choice.
- Should not be intended to be a plan member's only investment.
- Place limits on stand-alone.





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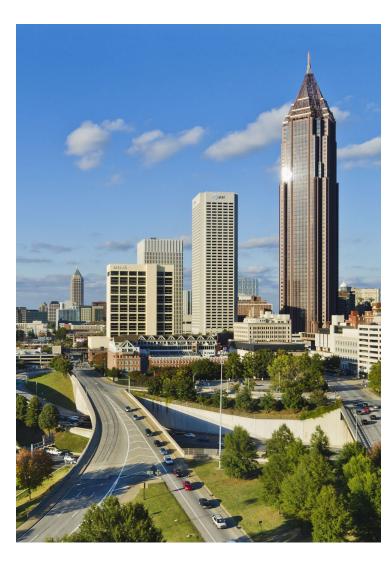
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- Canadian market is narrow, oligopolistic.
- Regulations and Tax challenges
- Canadian equity market has high exposure to some real asset companies, but excludes important sectors.





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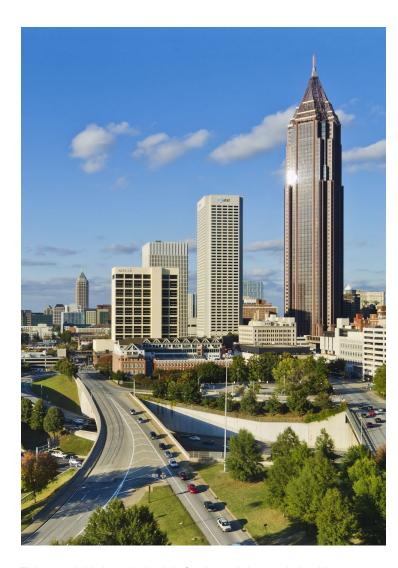
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### Sustainability?

- Significant opportunities and challenges in climate change mitigation and adaption.
- Private markets imply a higher level of control, and responsibility.
- Data collection is inconsistent.
- "Green Washing" is a problem.





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#### **Barriers to Real Asset Investing**

Minimum Transaction Size

Time from trade to implantation

**Daily Liquidity** 

**NAV Setting** 

Ability to rebalance

Tax and Jurisdictional Complexity

**Hidden Costs** 

Long-Run Return Expectations

Long-Run Volatility Expectations

**Diversification from Equity Markets** 

#### Suitable For

Underlying Holding in Target Date /

**Balanced Fund** 

**Custom Fund Solution** 

Member Choice / A la Carte

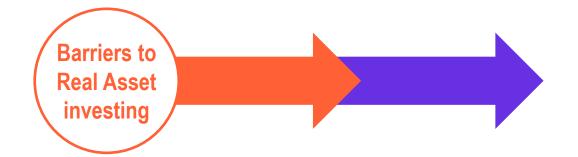


Real Asset	
investing	
	Listed Markets
Barriers to Real Asset Investing	\$100
Minimum Transaction Size	Immediate
Time from trade to implantation	Yes
Daily Liquidity	Daily
NAV Setting	Yes
Ability to rebalance	Simple
Tax and Jurisdictional Complexity	Few
Hidden Costs	8-10%
Long-Run Return Expectations	12-16%
Long-Run Volatility Expectations	Poor
Diversification from Equity Markets	1 001
Suitable For	Yes
Underlying Holding in Target Date / Balanced Fund	165
Custom Fund Solution	Yes
Member Choice / A la Carte	Yes

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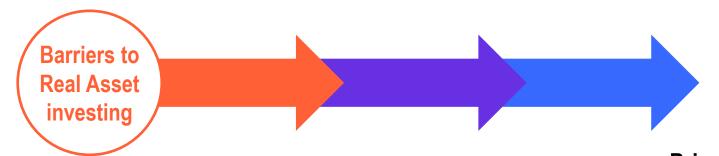




Barriers to Real Asset Investing	Listed Markets
Minimum Transaction Size	\$100
Time from trade to implantation	Immediate
Daily Liquidity	Yes
NAV Setting	Daily
Ability to rebalance	Yes
Tax and Jurisdictional Complexity	Simple
Hidden Costs	Few
Long-Run Return Expectations	8-10%
Long-Run Volatility Expectations	12-16%
Diversification from Equity Markets	Poor
Suitable For	
Underlying Holding in Target Date /	Yes
Balanced Fund	
Custom Fund Solution	Yes
Member Choice / A la Carte	Yes

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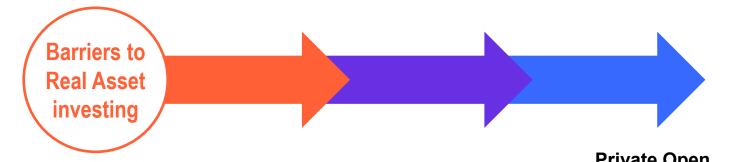
Barriers to Real Asset Investing	Listed Markets
Minimum Transaction Size	\$100
Time from trade to implantation	Immediate
Daily Liquidity	Yes
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Tax and Jurisdictional Complexity	Simple
Hidden Costs	Few
Long-Run Return Expectations	8-10%
Long-Run Volatility Expectations	12-16%
Diversification from Equity Markets	Poor
Suitable For	
Underlying Holding in Target Date / Balanced Fund	Yes
Custom Fund Solution	Yes
Member Choice / A la Carte	Yes

Private Open End Funds
\$1,000,000
3 + Months
No
Monthly or Quarterly
Delayed
Complex
Moderate
8-10%
4-6%
Strong
Yes
No
No

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Barriers to Real Asset Investing	Listed Markets	End Funds
Minimum Transaction Size	\$100	\$1,000,000
Time from trade to implantation	Immediate	3 + Months
Daily Liquidity	Yes	No
NAV Setting	Daily	Monthly or Quarterly
Ability to rebalance	Yes	Delayed
Tax and Jurisdictional Complexity	Simple	Complex
Hidden Costs	Few	Moderate
Long-Run Return Expectations	8-10%	8-10%
Long-Run Volatility Expectations	12-16%	4-6%
Diversification from Equity Markets	Poor	Strong
Suitable For	_	
Underlying Holding in Target Date / Balanced Fund	Yes	Yes
Custom Fund Solution	Yes	No
Member Choice / A la Carte	Yes	No

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Source: FRAA.



Barriers to Real Asset			
investing			Private Closed-
		Private Open	End Funds
Barriers to Real Asset Investing	Listed Markets	End Funds	\$5,000,000
Minimum Transaction Size	\$100	\$1,000,000	1-3 years
Time from trade to implantation	Immediate	3 + Months	No
Daily Liquidity	Yes	No	
NAV Setting	Daily	Monthly or Quarterly	Quarterly
Ability to rebalance	Yes	Delayed	Impossible
Tax and Jurisdictional Complexity	Simple	Complex	Very Complex
Hidden Costs	Few	Moderate	Complex
Long-Run Return Expectations	8-10%	8-10%	10-15%
Long-Run Volatility Expectations	12-16%	4-6%	6-8%
Diversification from Equity Markets	Poor	Strong	Strong
Suitable For			Strong
Underlying Holding in Target Date /	Yes	Yes	No.

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**Balanced Fund** 

**Custom Fund Solution** 

Member Choice / A la Carte

Source: FRAA.

No

No

Yes

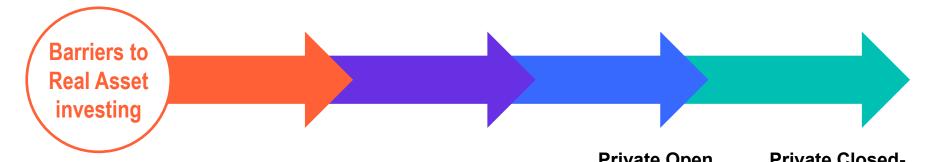
Yes

No

No

No



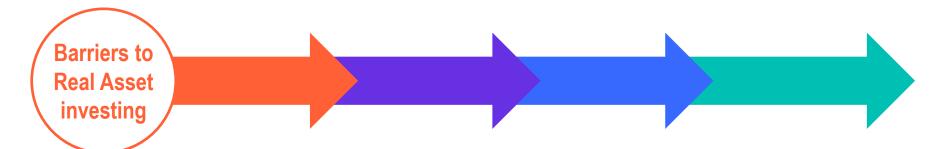


		Private Open	Private Closed-
Barriers to Real Asset Investing	Listed Markets	End Funds	End Funds
Minimum Transaction Size	\$100	\$1,000,000	\$5,000,000
Time from trade to implantation	Immediate	3 + Months	1-3 years
Daily Liquidity	Yes	No	No
NAV Setting	Daily	Monthly or Quarterly	Quarterly
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Diversification from Equity Markets	Poor	Strong	Strong
Suitable For			
Underlying Holding in Target Date /	Yes	Yes	No
Balanced Fund			
Custom Fund Solution	Yes	No	No
Member Choice / A la Carte	Yes	No	No

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Source: FRAA.





## Optimal Solution for DC

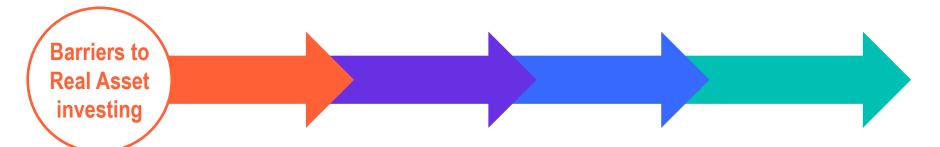
Barriers to Real Asset Investing	<b>Listed Markets</b>	End Funds	End Funds
Minimum Transaction Size	\$100	\$1,000,000	\$5,000,000
Time from trade to implantation	Immediate	3 + Months	1-3 years
Daily Liquidity	Yes	No	No
NAV Setting	Daily	Monthly or Quarterly	Quarterly
Ability to rebalance	Yes	Delayed	Impossible
Tax and Jurisdictional Complexity	Simple	Complex	Very Complex
Hidden Costs	Few	Moderate	Complex
Long-Run Return Expectations	8-10%	8-10%	10-15%
Long-Run Volatility Expectations	12-16%	4-6%	6-8%
Diversification from Equity Markets	Poor	Strong	Strong
Suitable For			
Underlying Holding in Target Date / Balanced Fund	Yes	Yes	No
Custom Fund Solution	Yes	No	No
Member Choice / A la Carte	Yes	No	No
TP:(		C	

\$100
Immediate
Yes
Daily
Yes
Professionally Managed
Moderate
8-10%
4-6%
Strong
Yes
Yes
Yes

**Private Open** 

**Private Closed-**





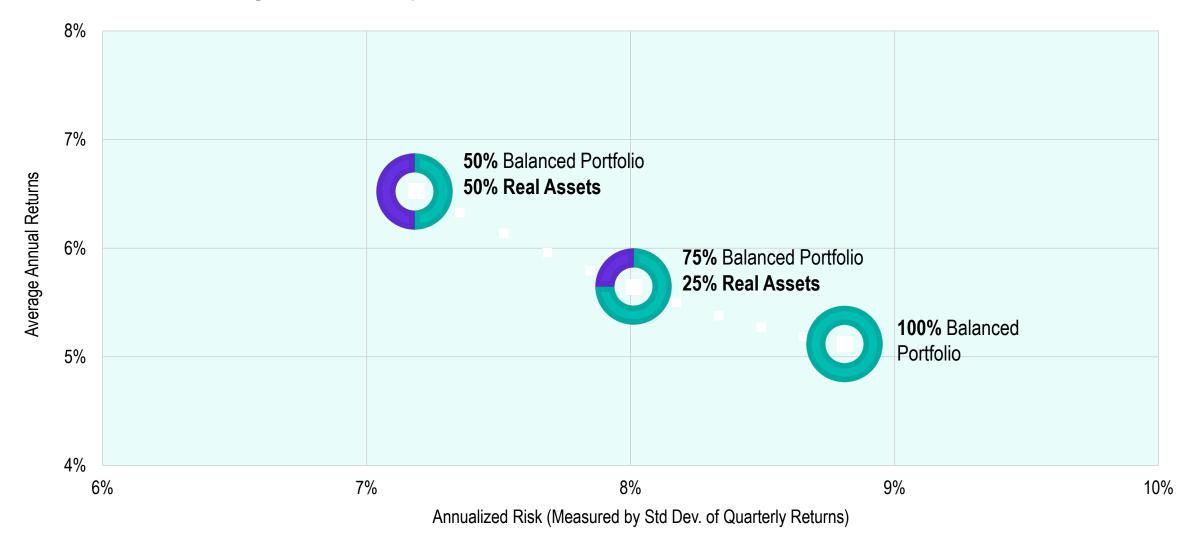
		Private Open	<b>Private Closed-</b>	<b>Optimal Solution</b>
Barriers to Real Asset Investing	Listed Markets	End Funds	End Funds	for DC
Minimum Transaction Size	\$100	\$1,000,000	\$5,000,000	\$100
Time from trade to implantation	Immediate	3 + Months	1-3 years	Immediate
Daily Liquidity	Yes	No	No	Yes
NAV Setting	Daily	Monthly or Quarterly	Quarterly	Daily
Ability to rebalance	Yes	Delayed	Impossible	Yes
Tax and Jurisdictional Complexity	Simple	Complex	Very Complex	Professionally Managed
Hidden Costs	Few	Moderate	Complex	Moderate
Long-Run Return Expectations	8-10%	8-10%	10-15%	8-10%
Long-Run Volatility Expectations	12-16%	4-6%	6-8%	4-6%
Diversification from Equity Markets	Poor	Strong	Strong	Strong
Suitable For				
Underlying Holding in Target Date / Balanced Fund	Yes	Yes	No	Yes
Custom Fund Solution	Yes	No	No	Yes
Member Choice / A la Carte	Yes	No	No	Yes

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Source: FRAA.



Risk reduction through additional portfolio diversification



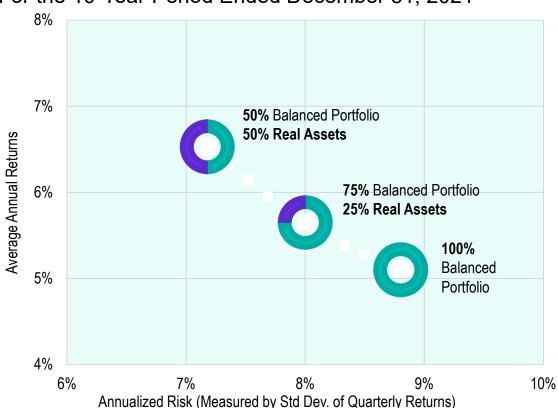
Source: Franklin Templeton and Morningstar. See www.franklintempletondatasources.com for additional data provider information. For illustrative and discussion purposes only.



Risk reduction through additional portfolio diversification

#### Real assets may enhance a balanced portfolio of equity and fixed income investments

For the 10-Year Period Ended December 31, 2021



#### **Calculation methodology:**

**Balanced Portfolio** risk and return characteristics are approximated using Morningstar Canada: Global Neutral Balanced Category averages.

In the absence of an appropriate global real asset benchmark in Canada, **Real Assets** risk and return characteristics are approximated by the following blend of indices:

INREV GREFI Asia Pacific Open-end	20.0%
INREV GREFI Europe Open-end	20.0%
INREV GREFI US Open End	20.0%
FTSE Epra/ Nareit Developed Index	17.5%
S&P Global Infrastructure - GRTR Index	17.5%
FTSE Canada 91 Day TBill Index	5.0%

All calculations are based on quarterly returns in Canadian dollars and assume distributions are reinvested. Rebalanced quarterly.

Source: Franklin Templeton and Morningstar. See www.franklintempletondatasources.com for additional data provider information. For illustrative and discussion purposes only.

### **Characteristics of Real Assets**



Real Estate	Infrastructure			Real Resources		
Commercial	Transportation	Energy	Wa	ter	Agriculture	Timber

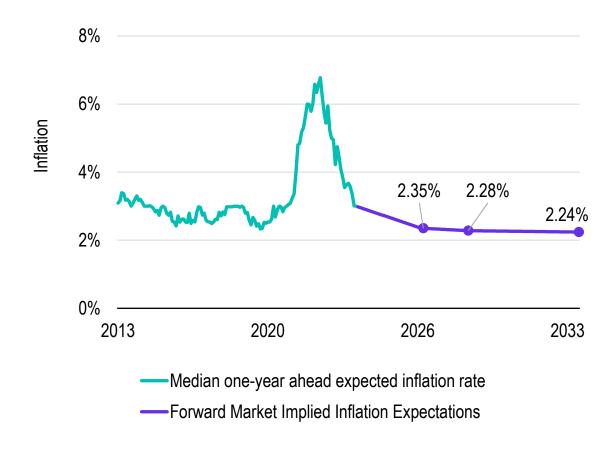
Asset Class	Income	Volatility	Liquidity	Inflation Hedge
Private Real Estate	Medium	Low	Medium	Medium
Private Infrastructure	Medium	Low	Low	Medium
Public Real Estate	Medium	Medium	High	Low
Public Infrastructure	Medium	Medium	High	Low
Private Timberland	Medium	Low	Low	High
Private Agriculture	Medium	Low	Low	High

Source: Mercer.

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#### **Median expected inflation rate**



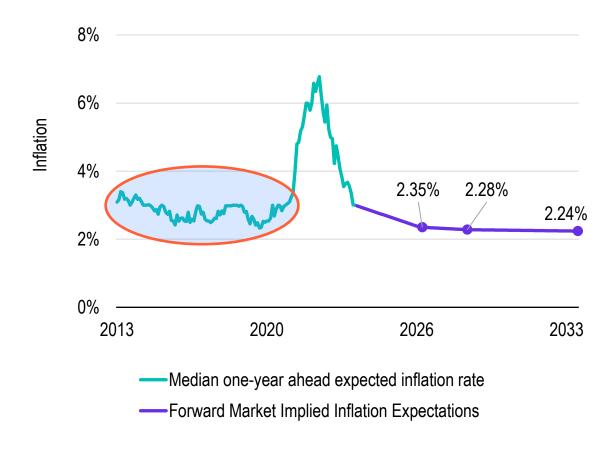
#### **Current Vintage Real Assets**

#### **Market long-term expectations:**

- Inflation and interest rates will decline;
- Revert to low inflation and low interest rates.



#### Median expected inflation rate



#### **Current Vintage Real Assets**

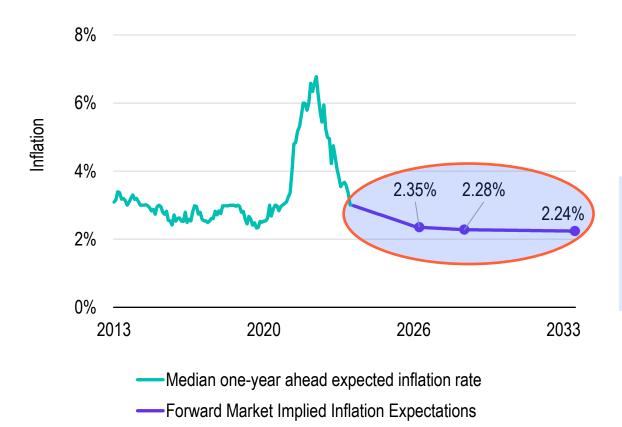
#### **Market long-term expectations:**

- Inflation and interest rates will decline;
- Revert to low inflation and low interest rates.

Market evidence suggests that during periods of low inflation and low interest rates, core real assets pricing averages around 6-8% discount rate.



#### **Base Case Scenario**



#### **Current Vintage Real Assets**

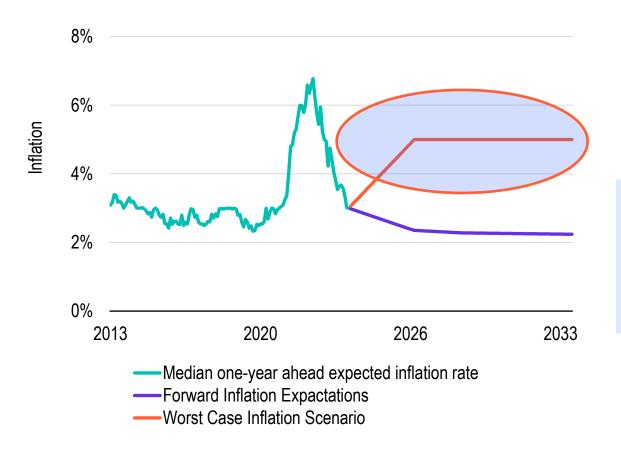
#### **Market long-term expectations:**

- Inflation and interest rates will decline;
- Revert to low inflation and low interest rates.

Stronger return potential, real assets benefit from material NAV growth due to discount rate compression.



#### **Worst Case Scenario**



#### **Current Vintage Real Assets**

#### **Market long-term expectations:**

- Inflation and interest rates will decline;
- Revert to low inflation and low interest rates.

If inflation and interest rates remain high, real assets benefit from inflation-linked cashflows and can potentially generate excess returns.



#### Capitalize on secular themes that are overlooked by the public markets



#### Digitization

AI, 5G, and the spread of edge computing systems;

Structural transformation of economy.

- Data Centres
- Fiber Optics
- Life Sciences
- "New" Work Place



**Decarbonization** 

Reduction or elimination of carbon dioxide emissions from an economic process

- Energy Supply
- Transmission Upgrades
- EV Charging
- Storage



**Deglobalization** 

Return of "Great Power Rivalry" means the end of the "Peace Dividend"

- Energy Independence
- Farmland
- Urban Logistics
- Water Infrastructure





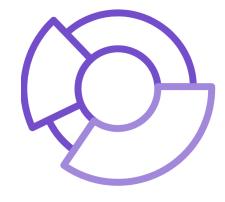


**Demographics** 

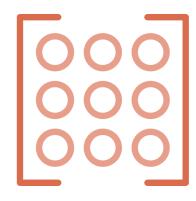
- Rapidly aging populations;
- Urbanization;
- Migration
- Affordable Living
- Timberland
- Airports
- Mass Transit
- Healthcare

Real Assets are uniquely well positioned to capitalize on the major trends impacting our society









# Seeking additional portfolio diversification

Real assets have historically low correlations to traditional asset classes

# Search for better income generation

Historically steady income streams from long-term leases and contracts of underlying assets

# Reduced portfolio volatility

Real assets can help reduce overall portfolio volatility

"

A good portfolio is more than a long list of good stocks and bonds.

It is a balanced whole, providing the investor with protections and opportunities..."

— attributed to Harry Markowitz, Nobel Laureate in Economics

### **Important Disclosures**



Source: Franklin Templeton. Important data provider notices and terms available at: www.franklintempletondatasources.com.

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