

Derivatives in pension fund management

December 2016



La Caisse is one of the world's largest institutional investors

- **Founded in July 1965**
- **40 clients**
- **Net assets of \$255 B as at June 30, 2016**
- **One of the world's 10 largest real estate asset managers**
- **Offices and investments worldwide**
- **90% of assets managed in-house / 10% external**
- **AAA credit ratings from DBRS and S&P, Aaa from Moody's**

Investment sectors

- **Equity Markets**
- **Fixed Income**
- **Real Estate**
- **Private Equity**
- **Infrastructure**



International footprint with 9 offices worldwide



Our investment approach

Invest in the
real economy

Invest for the
long term

Focus on
**quality
assets**

Create value
through
operations

... as part of a rigorous portfolio construction strategy

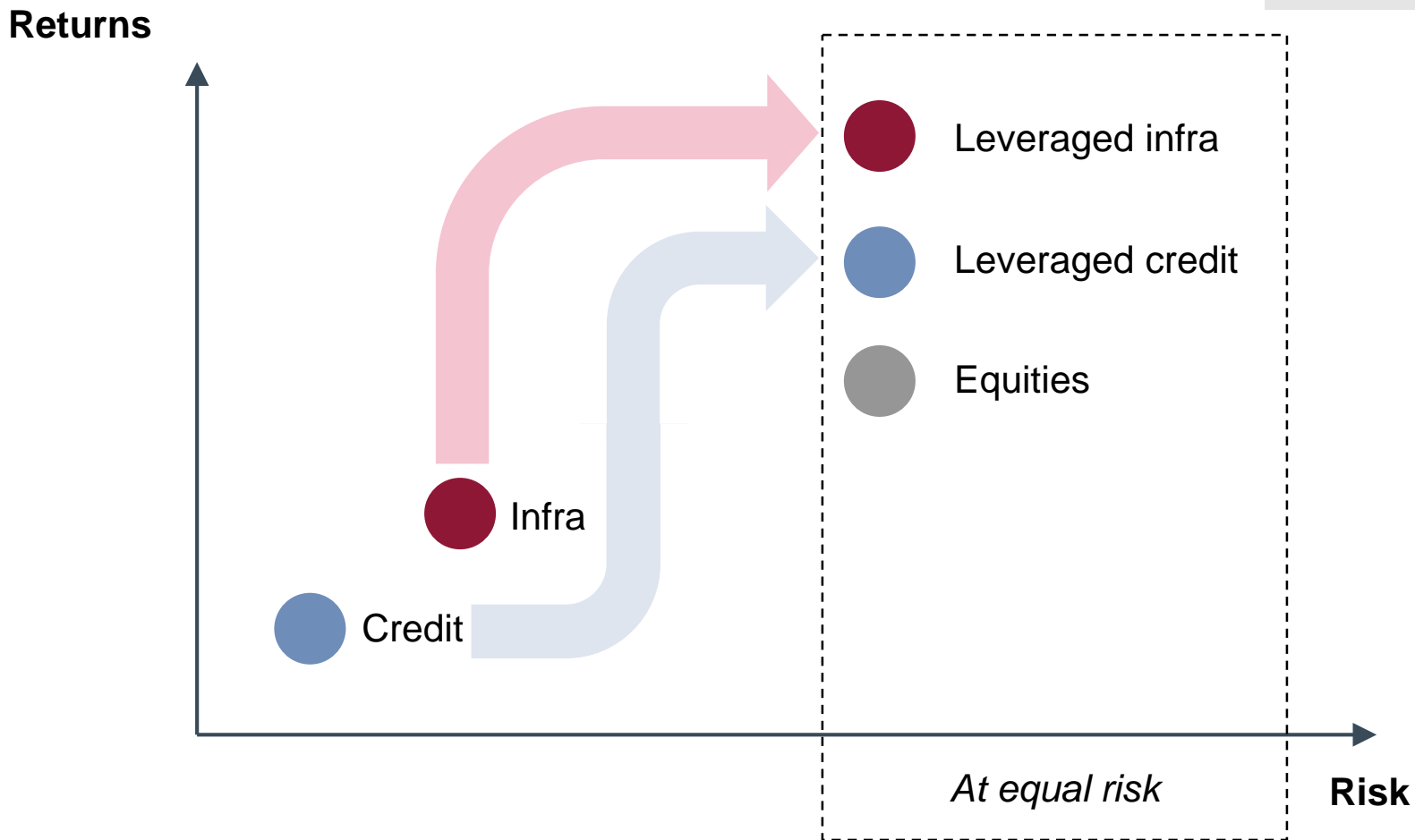
Pension funds use derivatives in four main areas

Examples

I	Leverage & liquidity management	<ul style="list-style-type: none">• Implicit leverage on futures• Bonds repos
II	Asset allocation	<ul style="list-style-type: none">• Rebalancing• Easier comparison between asset classes
III	Absolute returns	<ul style="list-style-type: none">• Arbitrage / long-short• Directional positions
IV	Risk hedging	<ul style="list-style-type: none">• Liability-driven investment strategies (LDI)• Currency exposure

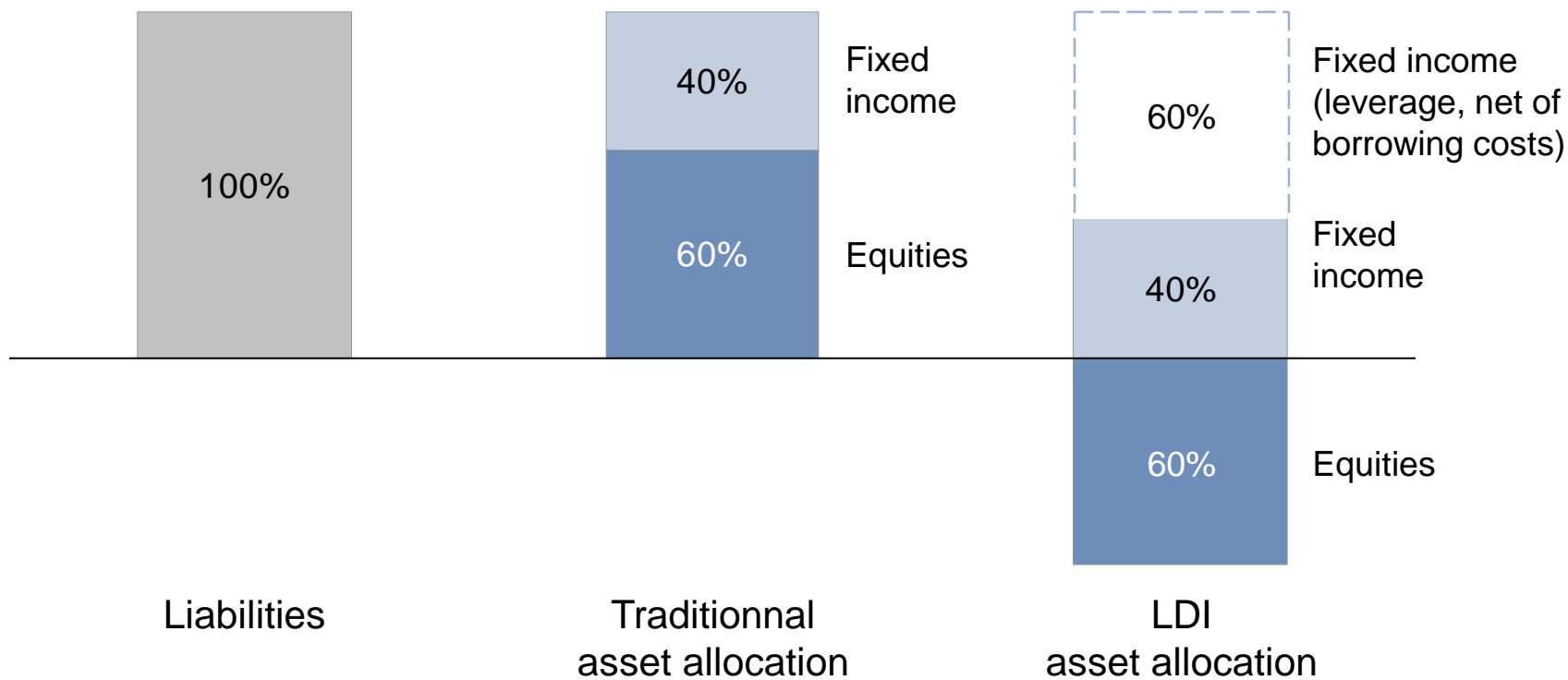
Derivatives facilitates comparison between asset classes

Illustration



In LDI, leverage is used to fully cover liabilities

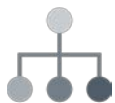
Illustration



Use of derivatives at la Caisse

	<u>Global Portfolio</u>	<u>Fixed Income</u>	<u>Public Equities</u>	<u>Illiquid Assets</u>
I Leverage & liquidity management	✓	✓		
II Asset allocation	✓		✓	
III Absolute returns	✓	✓		
IV Risk hedging	✓	✓	✓	✓

Derivatives pose some challenges for pension funds



Governance

Difficult to create a framework to control the use of derivatives

Bad reputation of derivatives affect current decision making

- Experience with ABCPs still fresh in people's mind



Transparency

Reported leverage is underestimated

- Implicit leverage tied to derivatives is not included

Net exposure is not shared

- Only notional amounts are reported



Expertise

Complex instruments and strategies sometimes misperceived / misunderstood



Risk management

Challenge for risk management teams

- Time / resources required to build models
- Lack of historical data

Implications for liquidity management

- E.g., margin call

Questions?

