

# Liability Driven Investing (LDI) – Investment & Pensions Perspectives

15 March 2023

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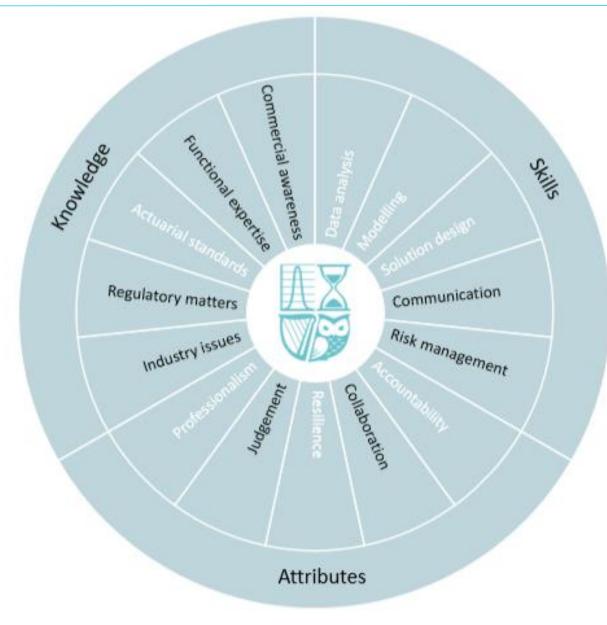


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Years



## **Competency Framework Wheel**





A&C

# Throughout, to be answered at the end Use the **Q&A function** to ask a question



Or following all four speakers Please click on the 'Raise Hand' icon to ask a question aloud and wait to be unmuted



## Today's speakers

Simon Bentley Columbia Threadneedle



**Investment management** 

Thomas Donohoe Insight Investment



**Investment management** 

Deirdre Coyle WTW



**Risk management and actuarial** 

**Pat O'Sullivan** The Pensions Authority



**Regulation and oversight** 



LDI Perspectives: Investment Management Simon Bentley, Columbia Threadneedle

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### UK LDI market review

#### 20yr gilt real yield

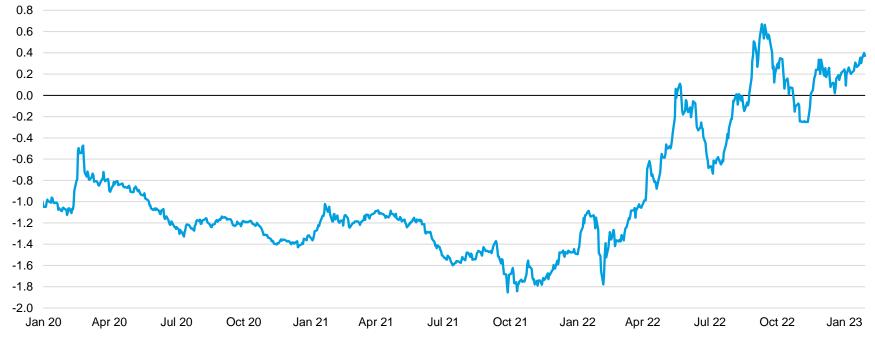


Source: Refinitiv Datastream, as at 10.03.2023



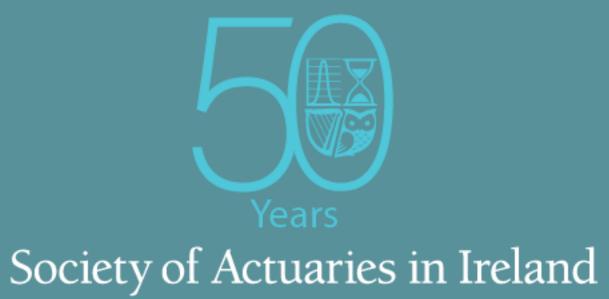
### Euro LDI market review

#### 20 year real rate swaps



Source: Bloomberg, as at 28.02.2023

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LDI Perspectives: Investment Management Thomas Donohoe, Insight Investment

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1

Lessons learnt for LDI strategies ?

2

What is the 'endgame' for Irish Defined Benefit schemes ?



# Lessons learnt for LDI strategies





Source: Bloomberg as at 6 March 2023 (ILG 2037).

P6711

## Ramifications of the crisis



### Short term

- Increased liquidity/collateral buffers (c.300-400bp)
- Integration of portfolios to increase efficiency / reduce 'drag'
- Governance and decision making structure reviews
- Asset allocation changes: desire for greater operational and investment resilience
- BOE Financial Policy Committee meeting 20 March

### **Medium term**

- Regulatory change
- Ongoing QT and heavy UK gilt supply
- Can the index-linked gilt market function when pension funds are sellers rather than buyers?
- Reassessment of hedging approaches and integration
- Smaller pension fund liabilities with increased demand for whole scheme buyouts
- Larger pension scheme liabilities defining 'endgame' strategy to run-off portfolios over next 10-20 years



### **Central Bank of Ireland**

The resilience of GBP LDI Fund has subsequently improved, with an average **yield buffer** in the region of **300-400 basis points** [being built up]...

...these **levels of resilience**... are expected to be **maintained** 

Industry Letter on Liability Driven Investment Funds

### The Pensions Regulator (UK)



Where statements... refer to pooled funds, we believe the **same level of resilience** should be **maintained** for segregated leveraged LDI mandates...

If a scheme is not able to hold sufficient liquidity... they should consider **their level of hedging**... to ensure they have the right **balance of funding, hedging and liquidity** 

> Statement on maintaining LDI resilience

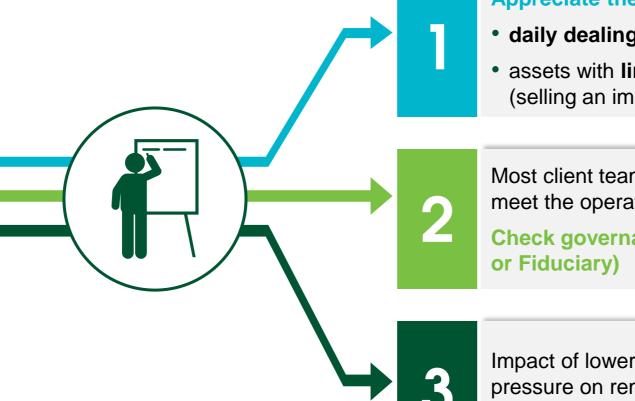
Source: Maintaining liability-driven investment resilience | The Pensions Regulator, Industry Letter - Liability Driven Investments Funds (centralbank.ie).



# Lessons learnt for Irish pension schemes







Appreciate the value of liquidity (or reduce your hedge)

- daily dealing funds with ability to settle 4 days after instruction
- assets with limited price volatility to reduce forced selling risk (selling an impaired asset)

Most client teams (clients, consultants, Insight) did whatever it took to meet the operational demands of the crisis

Check governance set up: DIY / Delegated (LDI manager, Platform or Fiduciary)

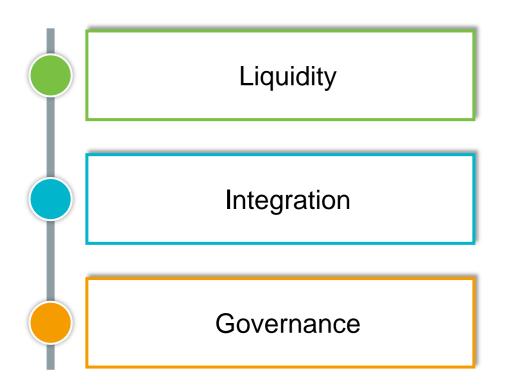
Impact of lower leverage in LDI funds: (i) less hedging, (ii) increased pressure on remaining assets, (iii) integrated LDI funds

**Consider integration – credit enhanced LDI funds** 

## So where are the weak links?

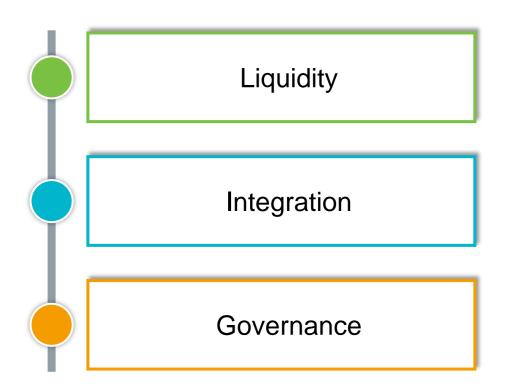


### Lessons learnt from last year





### Lessons learnt from last year



"How can we ensure that the scheme has planned ahead, with the ability to act quickly and confidently?"

### What will your response be:



Leave things unchanged?



Package of changes, e.g. bigger buffers, widen toolkit, adjust delegated powers, improve information flow?



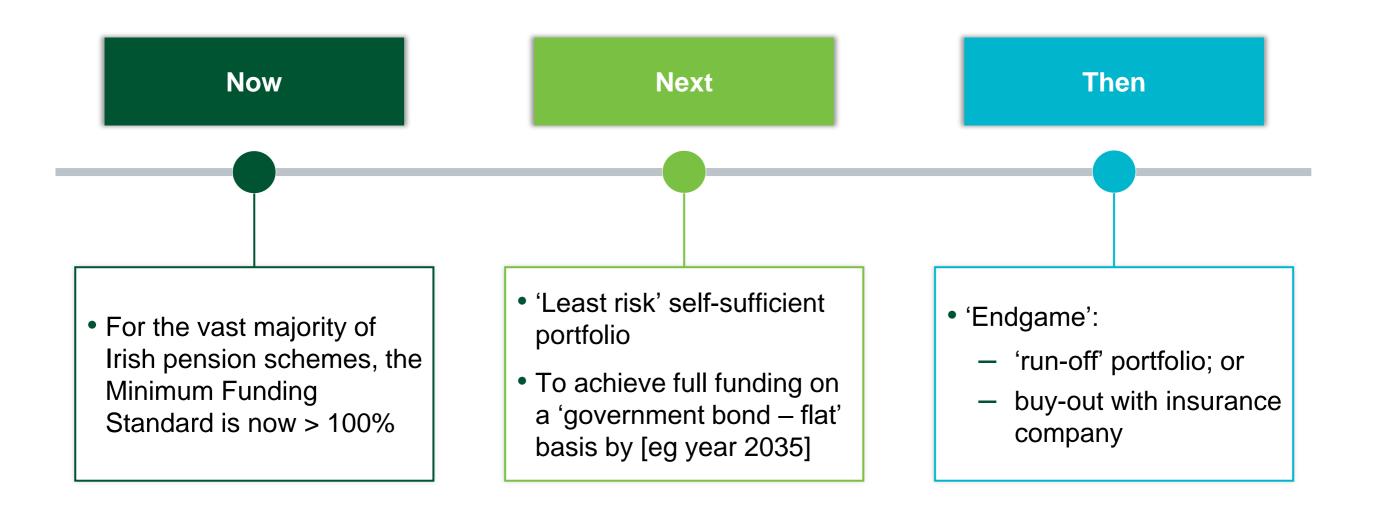
System overhaul including change in sponsor contributions to reduce need to shrink the deficit?



# What is the 'endgame' for Irish defined benefit schemes?

# Locking in funding gains on the journey to surplus and 'endgame'

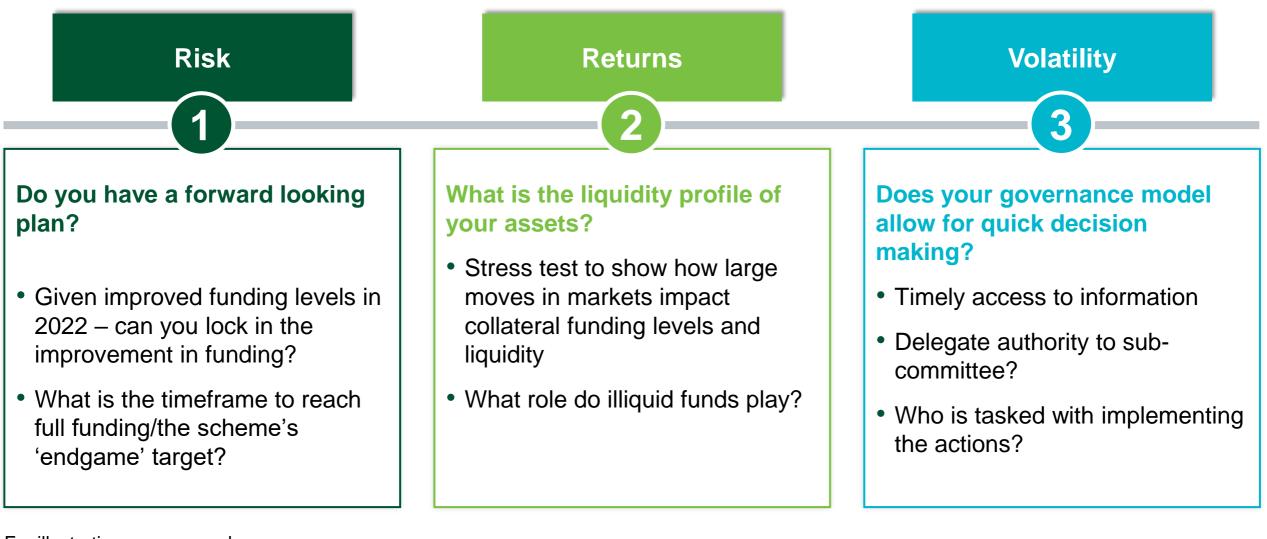




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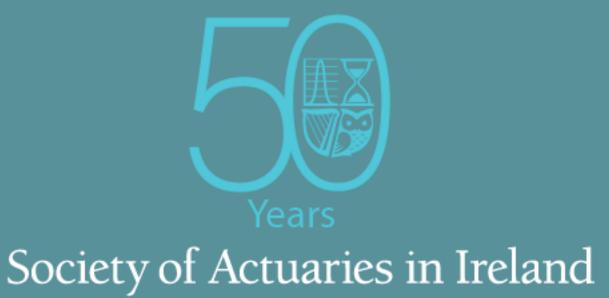
## Questions to answer in 2023...

## Key considerations for risk management of Irish pension schemes



For illustrative purposes only.

Insight INVESTMENT



## LDI Perspectives: Risk Manager & Scheme Actuary Deirdre Coyle, WTW

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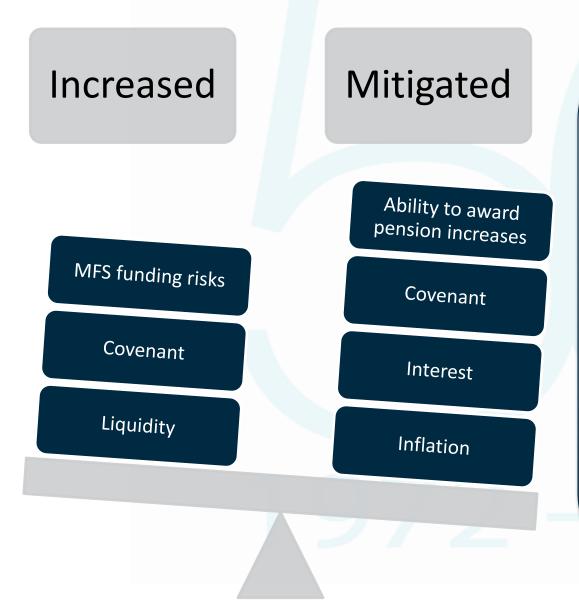


## Why Consider LDI?

- Interest rate and inflation risk among the highest contributors to pension funding risks
- Often constrained from using physical bonds to achieve sufficient hedging – by required return to pay the benefits
- LDI and an increased hedge can dramatically reduce these risks to member benefits
- In 2022 and 2023 many Scheme see improvements in funding levels from rising rates and are exploring LDI to increase the hedge and 'lock in' some of these gains



## Compare the Risks



### A Balancing Act

### Reducing risks from:

- Falling interest rates
- Increasing inflation expectations
- Covenant issues from increased deficit contributions
- Being priced out of provision of discretionary increases with rising inflation

### But some risks increase :

- Depending on the hedge levels MFS volatility can increase and funding levels fall if interest rates rise of inflation reduces
- Leading to a fresh covenant risks if underfunded on a statutory basis
- Liquidity risks increase



## **Controlling Risks**

- Increased Governance
  - Complex a challenge to understand & communicate
  - Co-ordination of 1<sup>st</sup> line of defence Scheme Actuary & Investment Advisor to understand where the risks lie
  - Preparation mandates, portfolio changes
  - Agility reporting frequency, make changes to the Risk Framework over time
- Talk to the Sponsor especially if a compromise is required e.g. on MFS and Ongoing funding level protection or on hedging discretionary benefits



# Controlling Risks – Liquidity

- Close co-ordination with investment manager / LDI manager to understand the moving parts and where the risks lie
- Short Term Actions
  - Pivot portfolio to liquidity
  - Daily dealing
  - Mandates up to date
- Medium Term Actions
  - Project cashflow outgo over the medium term and manage it
  - Orient the portfolio to cashflow generation



## Controlling Risks – Liquidity

- Monitor collateral 'headroom'
- Be aware of and monitor additional liquidity available from other elements of the portfolio
- Understand gearing speed & scale of portfolio change
- Scenario test collateral calls & ability of the portfolio to respond - interest shocks for different gearing
- Balance gearing, ability to respond and target hedge ratio
- Set tolerance levels for action
- Reporting frequency should reflect that the position can change quickly



# Controlling Risks – Ongoing versus MFS

Hedge	Ongoing Funding level						MFS Funding level					Hedge
Ratio	Rates Fall			Rates Rise			Rates Fall			Rates Rise		Ratio
	i-2%	i-1%	Core	i+1%	i+2%		i-2%	i-1%	Core	i+1%	i+2%	
0%	74%	86%	100%	115%	130%		91%	99%	108%	116%	126%	0%
20%	77%	88%	100%	113%	126%		94%	101%	108%	115%	123%	20%
<mark>30%</mark>	79%	89%	100%	111%	123%		98%	103%	108%	113%	120%	30%
40%	82%	91%	100%	110%	120%		102%	104%	108%	111%	116%	40%
50%	85%	92%	100%	108%	117%		105%	106%	108%	110%	113%	50%
60%	88%	94%	100%	106%	113%		109%	108%	108%	108%	110%	60%
70%	91%	95%	100%	105%	110%		112%	110%	108%	106%	107%	70%
80%	94%	97%	100%	103%	107%		116%	111%	108%	105%	104%	80%
<mark>90%</mark>	<b>97%</b>	98%	100%	102%	103%		120%	113%	108%	103%	100%	90%
100%	100%	100%	100%	100%	100%		123%	115%	108%	101%	97%	100%

- Low hedge ratio ongoing and MFS both at risk from falling rates
- High hedge ratio ongoing well protected but MFS at risk from rate rises
- Absolute level of MFS funding can be a buffer if it's high enough but set a tolerance
- Is the journey plan run off?
- Talk to the Company contingent asset can support the MFS at higher hedge ratios



## Controlling Risks – Funding

- Prepare scheme specific heatmap modelling interest and inflation scenarios at varying hedge ratios
- Recalibrate after significant market movements
- Absolute funding levels are relevant
- Discuss with the Company
- Set tolerance levels



## LDI Perspectives: Regulation Pat O'Sullivan, The Pensions Authority

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