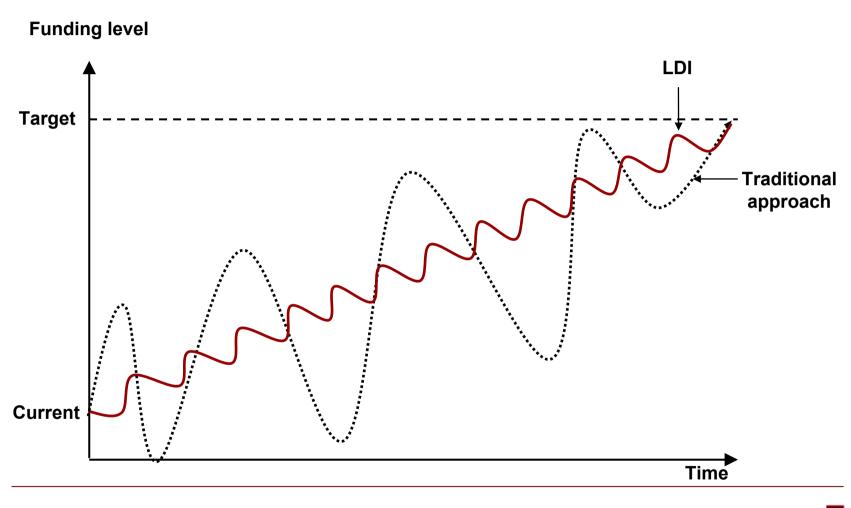


LDI: Practical issues and risks

Steve Aukett, Insight Investment

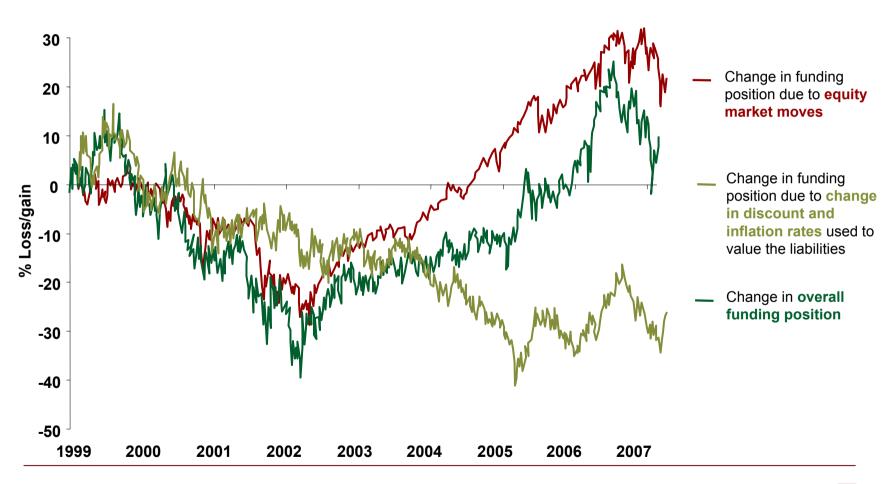
Smoother path to the funding target



What are the key issues?

- Identifying and managing the risks
 - what is the objective?
- The use of swaps
 - managing counterparty risk
 - generating LIBOR and LIBOR 'plus'
- Evolving the LDI strategy
- Monitoring and reporting

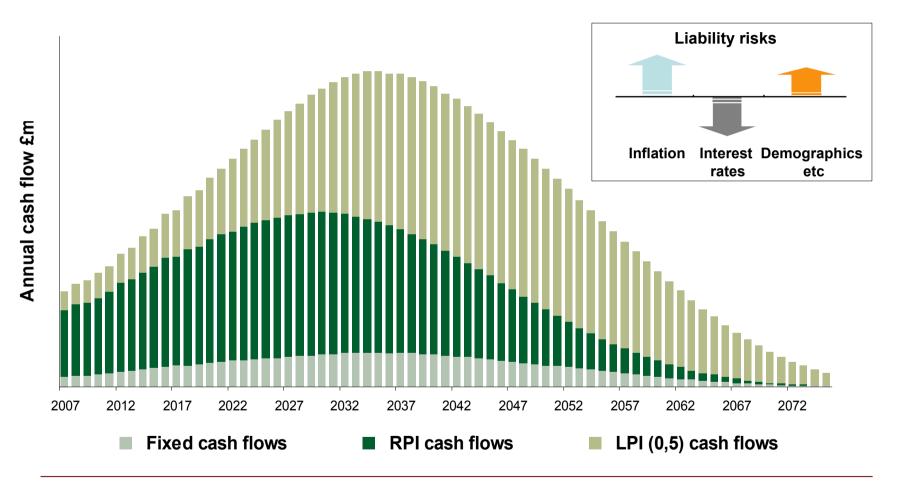
Funding levels are volatile



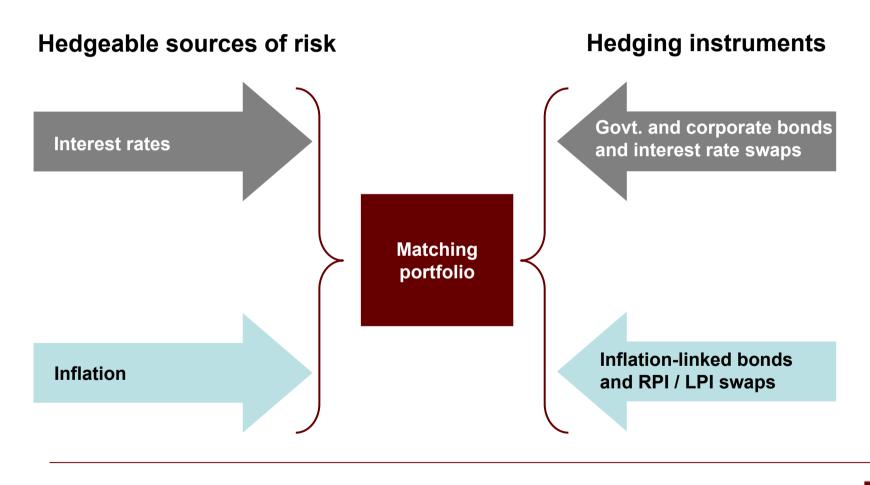
Quantifying the risks

	Exposure	x	Sensitivity	Х	Annual Volatility =	Impact
Assets						
Equity	70%		1		17%	12%
Fund manager	100%		1		3%	3%
Liabilities						
Interest rates	100%		20 yrs		1.1%	22%
Inflation	100%		20 yrs		1%	20%
Longevity						~5%

What is the objective?



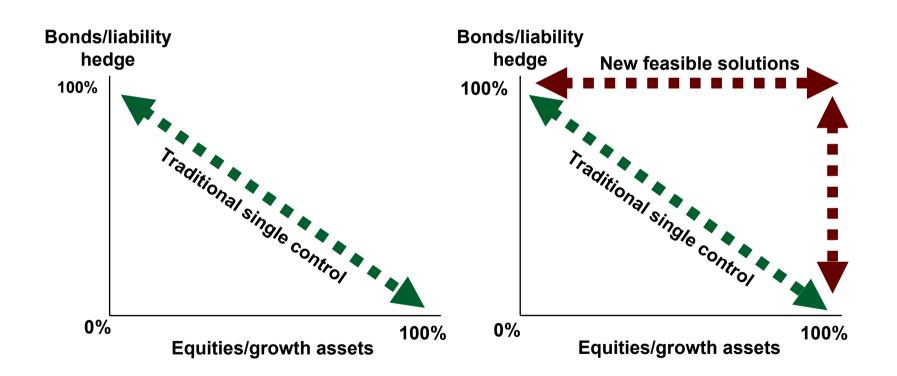
Designing the matching portfolio



Avoiding the traditional trade-off

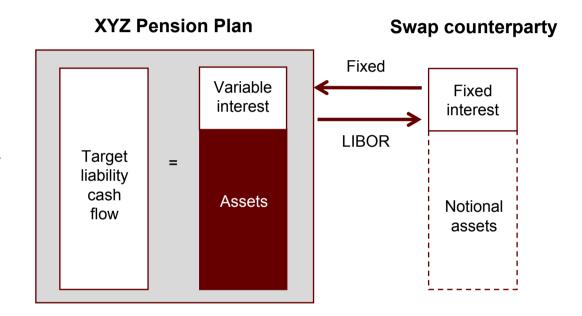
Equities or "Bonds"

Equities and "Bonds"



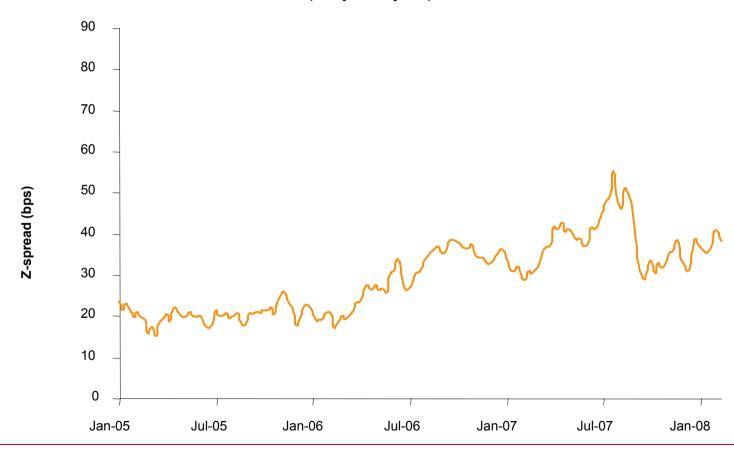
Using swaps to match liabilities

- Enable the Plan to match liabilities by:
 - maturity
 - nature (fixed, RPI, LPI)
- Offer a yield premium of c.0.3% p.a. over gilts
- Counterparty risk
- Assets backing swaps must generate LIBOR over the long-run



Swaps offer better value than indexlinked gilts





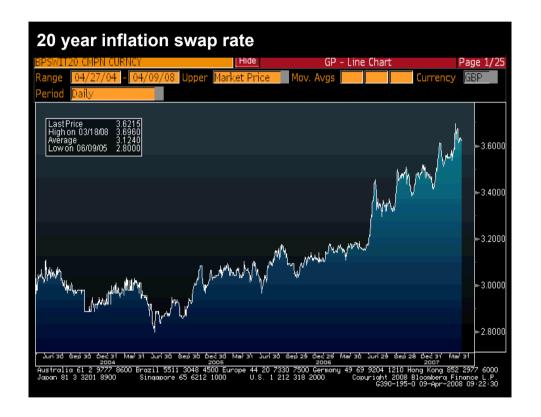
Mitigating counterparty credit risk

- Collateralisation
 - daily bilateral
 - ISDA documentation
 - typically gilts and cash
- Counterparty selection
 - credit quality
 - diversification

The cost of careless talk?

Managing the risk:

- limit number of 'insiders'
- non-disclosure agreements
- public announcements
- derivative documentation
- fund structure/vehicle
- execution mechanism

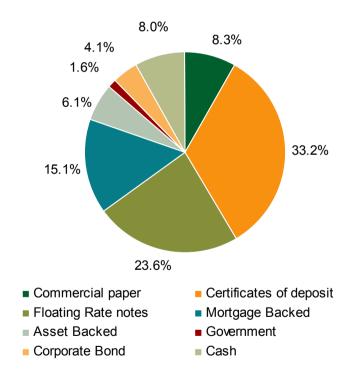


Best execution

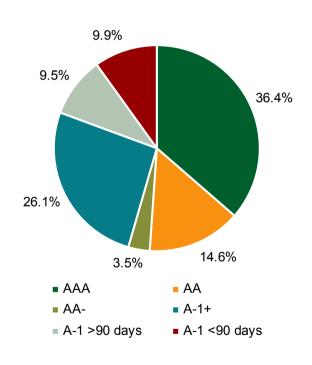
- Comprehensive market access
- Effective "price discovery" process
- Counterparty selection
- Market surveillance

Insight Liquidity Plus Fund

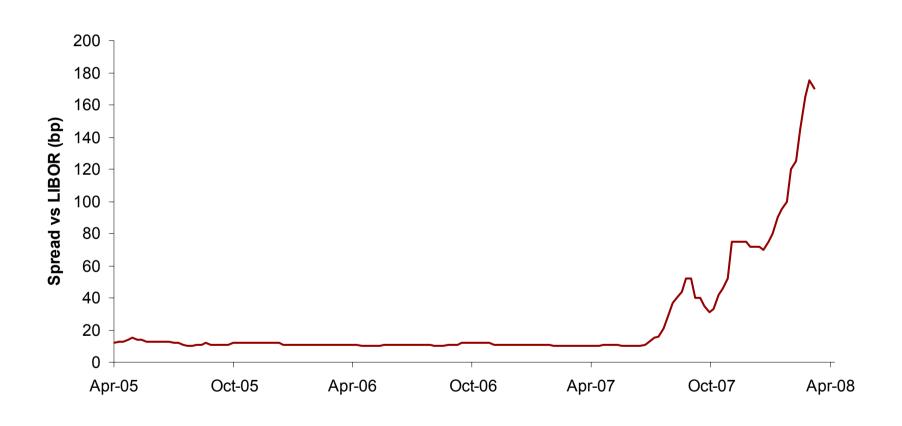
By asset class



By credit rating

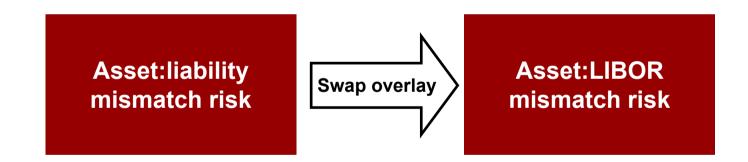


Current opportunity AAA UK Prime RMBS historic yield spreads

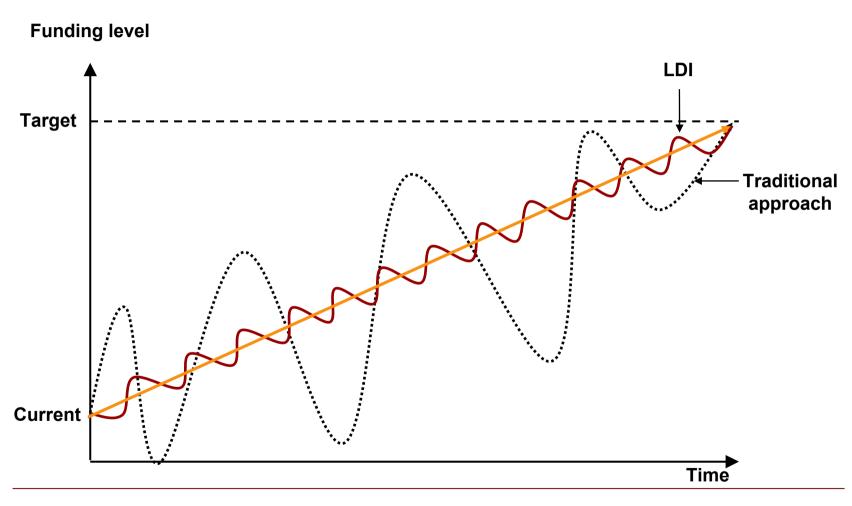


Generating LIBOR 'plus'

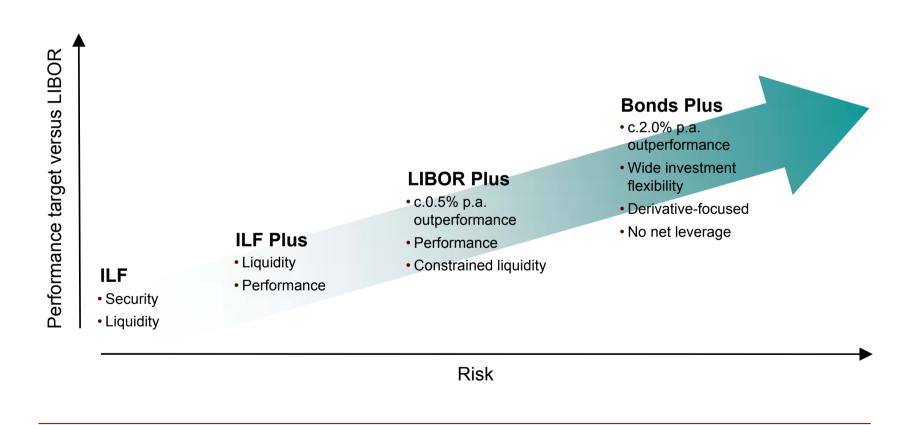
Assets must at least match LIBOR over the long run



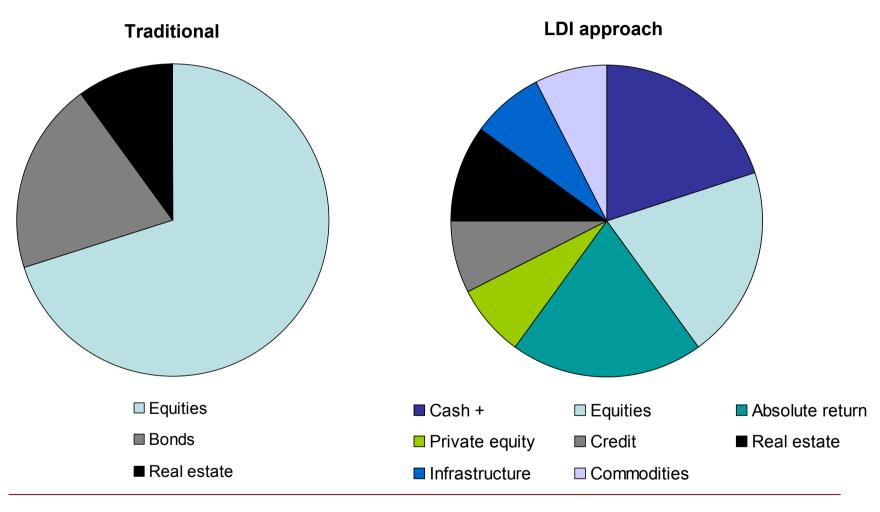
Smoother path to target



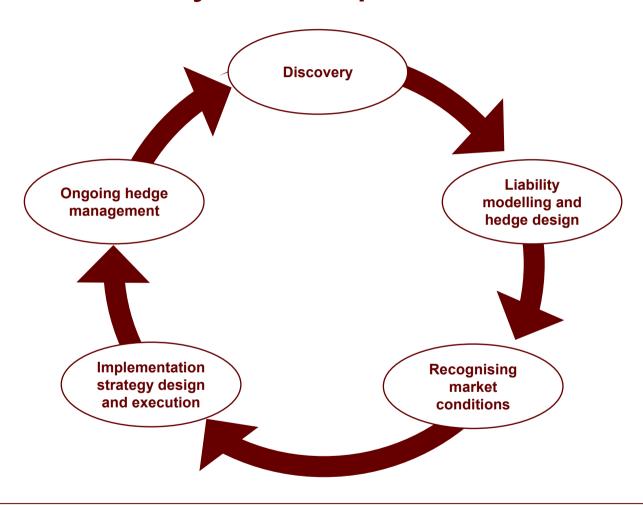
Insight's LIBOR generating capability



Targeting liabilities plus 3%p.a.



Continuous, dynamic process



Ongoing hedge management

- Swap overlays are rebalanced to
 - accommodate revisions and liability updates
 - reflect changes in underlying bond benchmarks
 - extend hedges to longer maturities
 - manage active hedge positions

Good governance

- Post-implementation review
 - review of trading activity
 - implementation cost analysis
 - performance and risk attribution vs. the implementation benchmark
- Ongoing reporting tailored to the client's needs
 - asset and liability valuation
 - holdings and transactions
 - collateral positions and movements
 - performance and risk attribution vs. the liability benchmark
- Trustee training and workshops

Summary

- LDI is about reducing 'unrewarded' risk
- But introduces other issues...
 - derivative counterparty risk
 - generating LIBOR
 - evolving the solution
 - monitoring and reporting

...that can be managed



Thank you

Notes

We would also point out:

- All features in this pack are current at the time of publication but may be subject to change in the future.
- Unless otherwise stated, the source of information is Insight Investment. Any forecasts or opinions are Insight Investment's own at the date of this document
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- Telephone calls may be recorded.

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