The Actuarial Profession making financial sense of the future

Risk and Investment Conference - 2011

Norbert Fullerton, Director, Russell Investments



Agenda

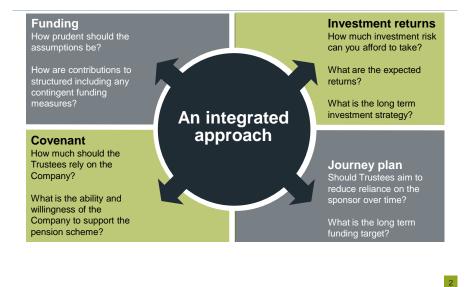
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Item #	Торіс
1	Big picture
2	What are the risks?
3	Planning the journey
4	Dynamic asset allocations
5	Practicalities

Integrated approach

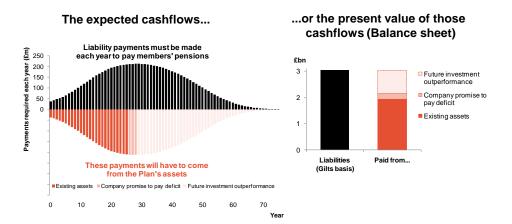
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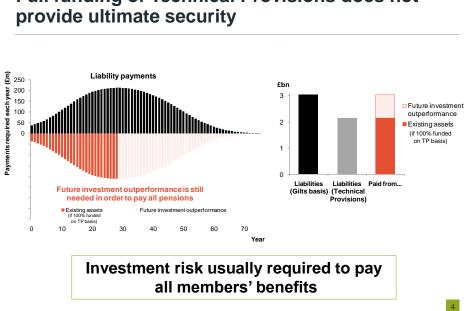
The big picture on funding and investments



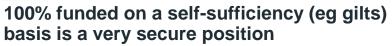
Benefit security

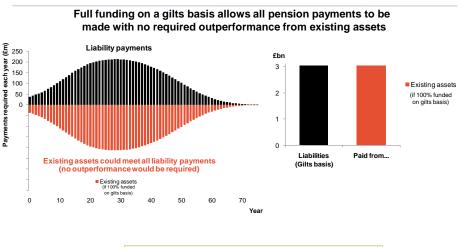
Ultimate goal is to pay members' pensions





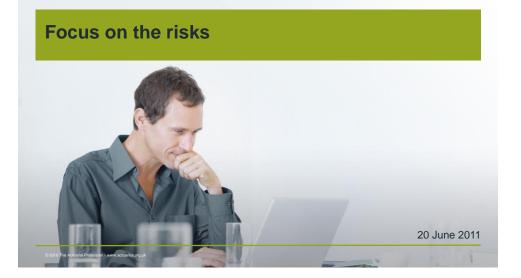
Full funding of Technical Provisions does not



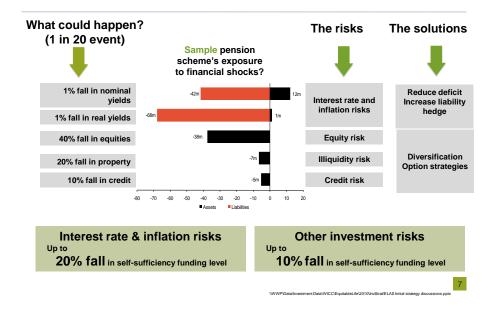


But, is zero risk ideal?

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The main investment risks



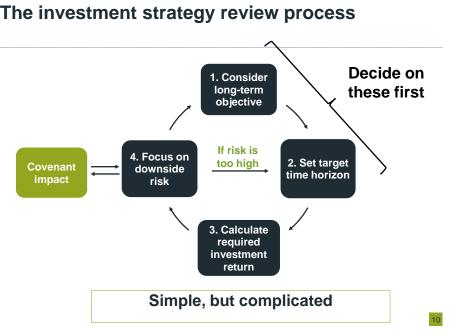
What could stop members' pensions being paid?



Members could lose a portion of their accrued benefits if:

- 1. Company defaults on its obligations, AND
- 2. After any recovery, there is a buyout/gilts deficit.

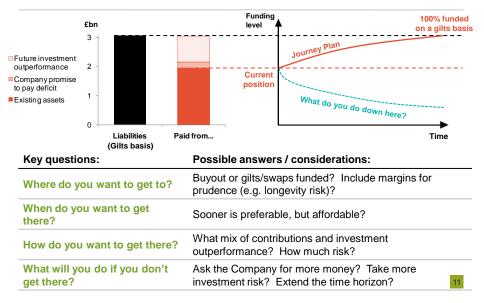




The investment strategy review process

Journey Planning

How best to move towards a more secure position?



Every scheme has an implicit journey plan

- Contributions known set at the valuation and with reference to a recovery plan
- Current asset allocation known derive expected returns
- · Current liabilities known from previous valuation
- Funding objective known main focus to be fully funded on technical provisions basis.

Key question is:

- Is this journey plan good enough?
 - Adjust funding target?
 - Adjust time horizon?
 - Adjust risk taken to get there?

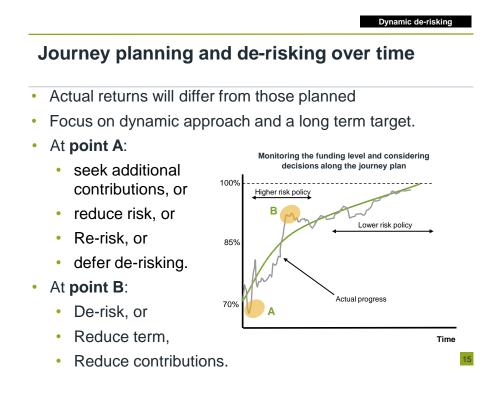
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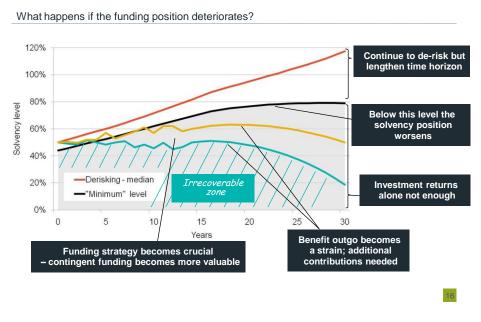
Dynamic asset allocations



Different approaches to risk management

- Time-based approach
 - Fixed schedule of reducing exposure to risky assets
 - Has limitations, no link to market /funding level changes
- Funding level-based approach
 - Unilateral schedule (dynamic de-risking on upside)
 - Bilateral schedule (re-risking on downside)
- Combined approach
 - Time-based approach with acceleration / deceleration mechanism related to funding level.

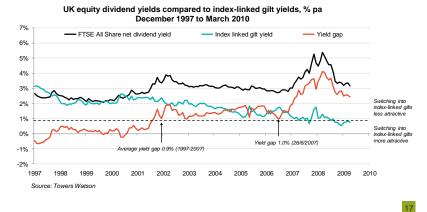




Example 1 – downside management

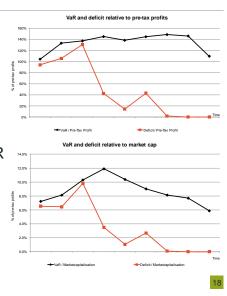
Example 2 – market-based trigger

- May take a view that equities are 'expensive' relative to bonds at certain times
- This is not easy!



Example 3 – risk-based trigger

- Investment strategy should reflect covenant:
 - Strong sponsor: low risk better?
 - Weak sponsor: think about impact on sponsor
- Sell equities and reduce VaR if the company covenant worsens, for example:
 - Lower profits
 - Lower market cap.



Example 4 – bond/swap yield triggers

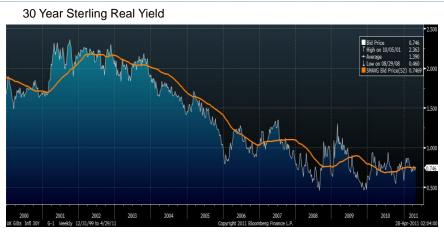
Triggers may include		Triggers for gilts				
Extend duration of IL gilts	Purchase inflation	Reference index- linked gilt	Minimum real yield trigger (% pa)	Acceleration real yield trigger (% pa)		
yıns	swaps	ILG 2027	0.7	1.2		
		ILG 2037	0.5	0.9		
		ILG 2055	0.3	0.6		
Network Rail	swaps or		Triggers for swaps			
bonds	gilts		Triggers for swap	s		
bonds	giİts	Reference maturity	Triggers for swap Minimum zc swap real yield trigger (%)	PS Acceleration zc swap real trigger yield		
bonds Purcha	giİts se full		Minimum zc swap real	Acceleration zc swap		
bonds	giİts se full	maturity	Minimum zc swap real yield trigger (%)	Acceleration zc swa real trigger yield		

Setting trigger levels can be very subjective





Today's Challenge – Low real yields



Source: Bloomberg Finance L.P. As at 28 April 2011

Past Performance is not necessarily indicative of future performance

Today's challenge – practicalities

Data availability

- Is data available for frequent funding level updates?
- Compromise with using indices / liability proxies

Cashflows

- Integrate Company contributions usually cheaper

Rebalancing policy

 Recognise this in advance, e.g. allowance for illiquid assets such as private equity and real estate.

23

25

Today's challenge – practicalities

Trading costs

- Avoid unnecessary trading costs e.g. Selling illiquid assets too quickly
- De-risking trigger bands should not be excessively tight

Governance process

- Complex process, so requires "real-time" monitoring
- Documentation leads to effective and (possibly) automatic execution

Formal review of policy

- Regular review of strategic decisions, e.g. annual.

Summary

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Item #	Торіс
1	Don't forget the Big Picture.
2	What are the risks? Have a good framework for assessing and monitoring these.
3	Plan the journey well. Have sensible funding and investment targets.
4	Think dynamically. Be proactive. Many de-risking options are available. Prepare to be opportunistic.
5	Be practical.

Questions or comments?

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