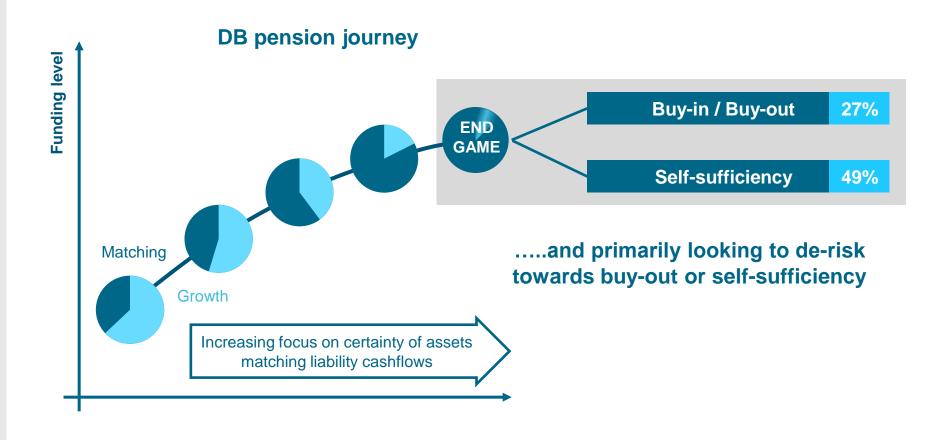
What's next for LDI? Preparing for the End Game



Toby Baldwin – Senior Product Specialist Philip Inness – Solutions Manager

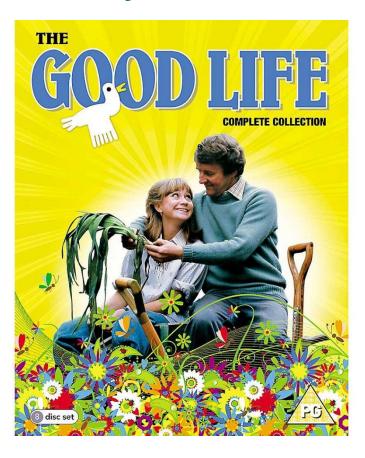


Schemes are increasingly focused on the end game



LDI is not a one size fits all strategy

Self-sufficiency – the Good Life?



- Trustees have an expectation of meeting cashflows as they fall due
- Without the need for further sponsor contributions
- With an acceptable risk of failure

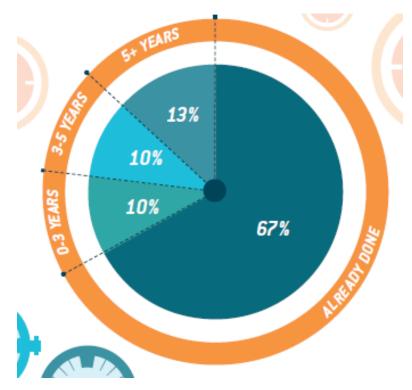
Buy-out – time to sell out?



- Buy-in all or part of the liabilities with an insurance company
- Remove longevity and market risk
- Ultimate goal of a full scheme buy-out

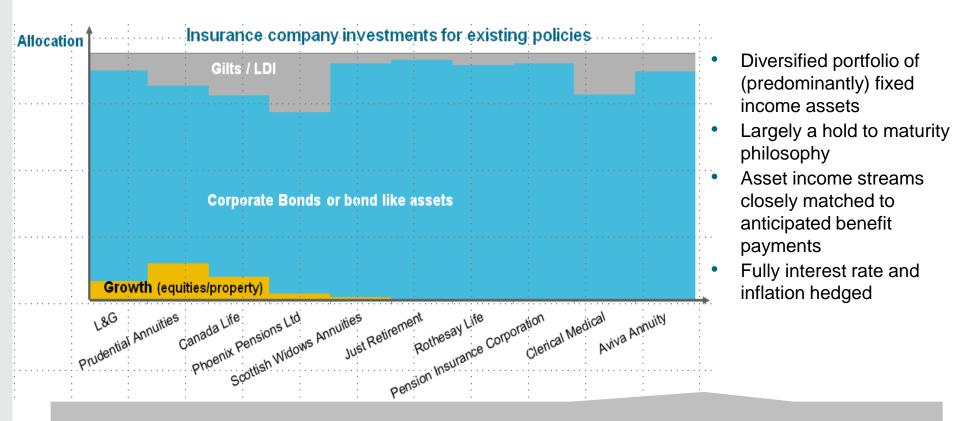
What's next for LDI?

Time horizon for implementing LDI



- Corporate bonds are going to be more important than you think
- 2. LDI is not a set and forget strategy, it needs management over time
- 3. Liability benchmarks will include a corporate bond based discount rate

How do insurers invest? Annuity books



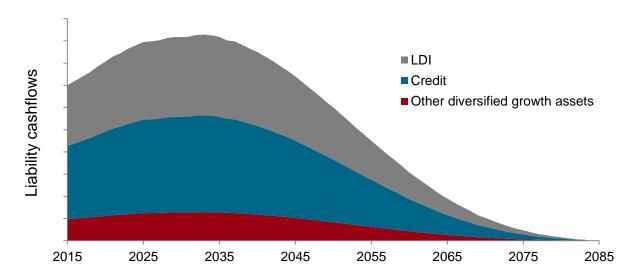
Other assets (bond like): assets in the fixed income bracket, including loans backed by mortgages, social housing loans, commercial real estate debt, equity release mortgages

Self sufficiency or buy out?

Theoretical approach to self-sufficiency investing

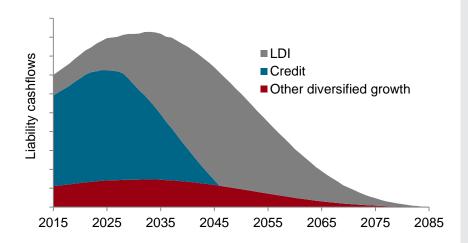
- 'Lowest risk' approach would be to match all cashflows with swaps or gilts
- If the credit spread were truly a 'free lunch', the cost of pension provision could be reduced with no additional risk, by matching a portion of all future cashflows with corporate bonds
- Corporate bonds do still contain some default risk. If prepared to accept investment risk, it is more efficient to diversify that risk. Scope to hold other diversified growth assets (with LDI overlay).
- Need to consider how the asset allocation would be expected to evolve over time.



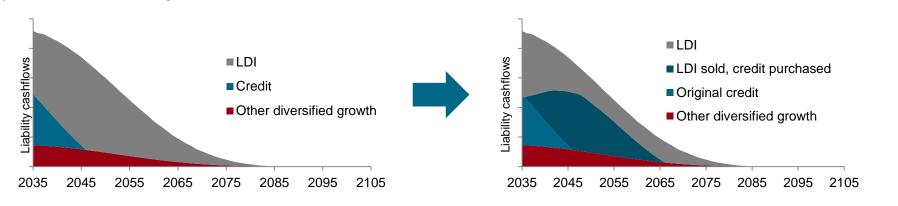


In practice, this is not possible...

- There are few very long duration corporate bonds
- To hold corporate bonds for the duration of the liabilities would expose the scheme to reinvestment risk
- There is still benefit in holding shorter-duration corporates
- Wider factors will influence decision to buy more credit in future (journey plan, return requirement, risk tolerance)



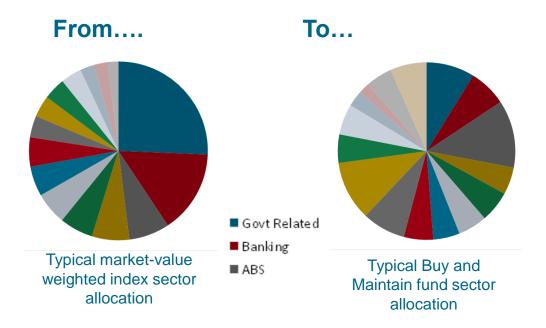
Implied cashflows in 20 years...



Credit assets geared towards paying pensions

Paying pensions: Buy and maintain credit

- Better diversification: Access to global markets; avoid index pitfalls
- Liability-aware: Focus on bonds which will help you pay pensions
- Avoid unnecessary costs: Low turnover; scale/access matters



LGIM's fund is managed similarly to £40bn annuity book

Buy-out: what really matters?

1 out funding level

...by investing in credit assets to generate an expected yield above the evolution of the buy-out price

2 Minimise buyout funding level volatility

...by investing in assets that reflect the primary drivers of buy-out pricing 100% hedged for rates/inflation

Minimise buyout transition costs

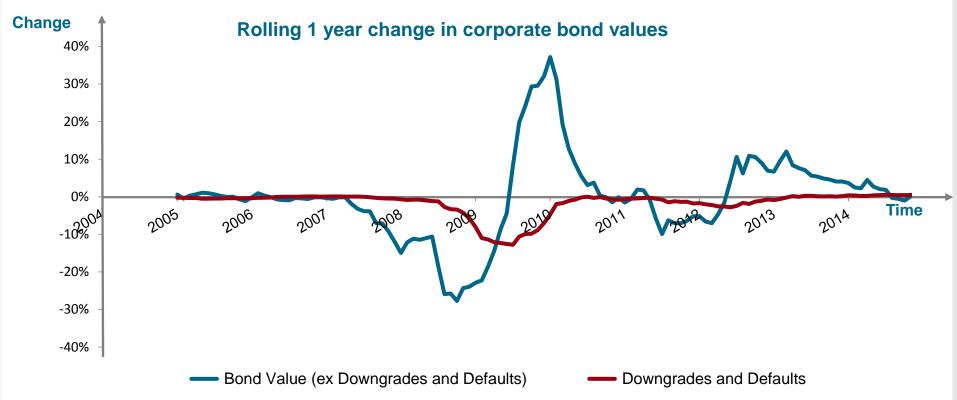
...by investing in assets which can be transferred efficiently at low cost to the life insurer

Investing in gilts only?



Better options for funding level and volatility...

Liability benchmarks allowing for corporate bonds



Historical bond price volatility has been greater than downgrades and realised defaults

A free lunch?

What should a buy-out aware portfolio look like?

ILLUSTRATIVE

KEY INPUTS

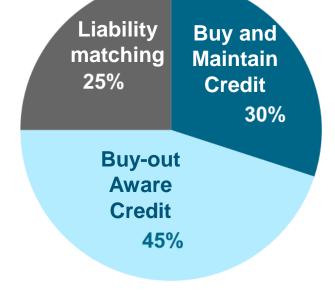
Annuity pricing from range of insurers

Insurance industry regulatory and investment constraints

Corporate bond and gilts market data

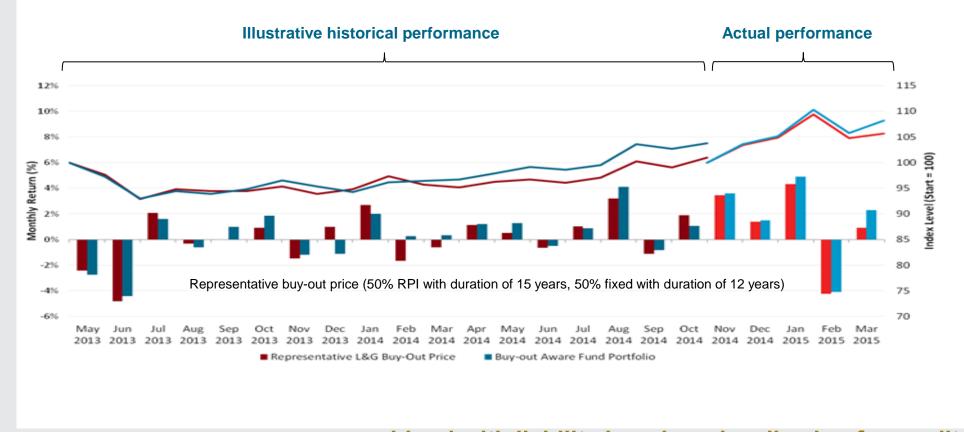


BUY-OUT AWARE PORTFOLIO



...buy-out aware portfolio to provide return over liabilities

Closing the gap to buy-out over time



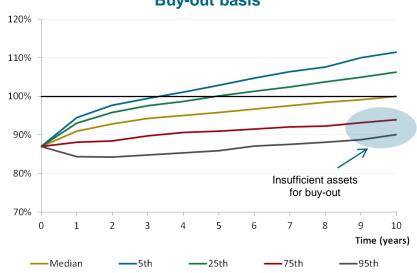
...combined with liability benchmarks allowing for credit

Source: LGIM; Note: Using model points that are provided by L&G to various consultants we have approximated the evolution of the L&G buy-out price since May 2013, together with an estimate of the historical monthly performance of the proposed strategy compared to the current strategy; to give a non-subjective back-test we assumed that the proposed allocation was not adjusted through time whereas in practice this would not be the case. We note that part of the above outperformance is due to buy-out pricing improvements over the last 12-18 months due to non market factors, including the impact of the UK Budget in March 2014

Keeping your options open

What level of certainty do you have that you will actually be able, to buy-out in [10] years?

Illustrative funding level projection Buy-out basis



Increasing certainty of buy-out

Buy-out considerations

- Managing risk/reward of asset value vs. buyout cost
- Assets to reflect drivers of pricing and likely to be acceptable to insurer
- Shorter term cash flow needs to meet pension payments in interim

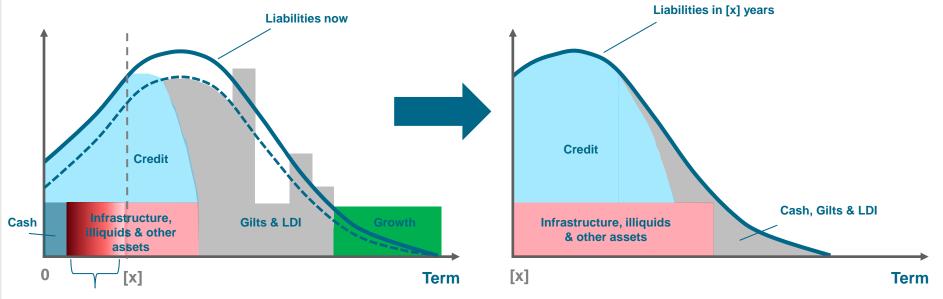
Self-sufficiency considerations

- Sufficient asset cash flows to outlast liabilities over long term
- Focus on cash flow generation qualities of assets and risks around those

What might best of both worlds look like?

Best of both worlds?

Objective: be ready for buy-out in [x] years



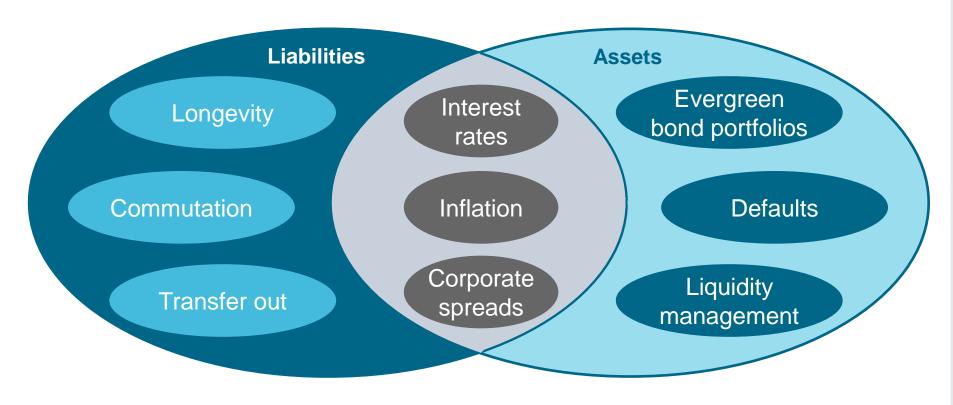
Prior to expected buy-out date there is a reduced requirement for insurer "friendly" assets as cash flows paid to members

Focus on matching early year pension payments, reducing need to be a forced seller in distressed market condition

Initial cash flow matching portfolio has run off and growth de-risked into longer term matching assets

Careful planning can save costs

LDI is not a set and forget strategy



Changes in cash flow, interest rate and inflation matching need to be managed

Don't miss the boat!



Have a plan and be ready to implement

- Get plumbing in place to be ready to capture opportunities
- Focus on long-term strategy rather than short-term tactics
- Have a Plan B for when things don't go according to Plan A
- Combination of (related) trigger options commonly used by clients:
 - Market level
 - Funding level
 - Timing

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