## **Investing for Self Sufficiency - Objectives and Strategies**



Paul Sweeting - Head of Research Graham Moles - Head of Matching Solutions



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#### Agenda and speakers

#### **Endgame Portfolios and Role of Credit**



Paul is responsible for leading global research in investment strategy, outcome-oriented investing, risk management and asset-liability modelling. He works closely with teams not just at LGIM but also across the Legal & General Group. Paul joined LGIM in 2015 from J.P. Morgan Asset Management where he was European Head of the Strategy Group. Prior to that, he was a Professor of Actuarial Science at the University of Kent, where he continues to hold a chair. As well as holding a PhD in Economics from the University of Bristol, Paul is a Fellow of the Institute and Faculty of Actuaries, of the Chartered Institute for Securities and Investment, and of the Royal Statistical Society. He is also a chartered enterprise risk actuary and a CFA charterholder.

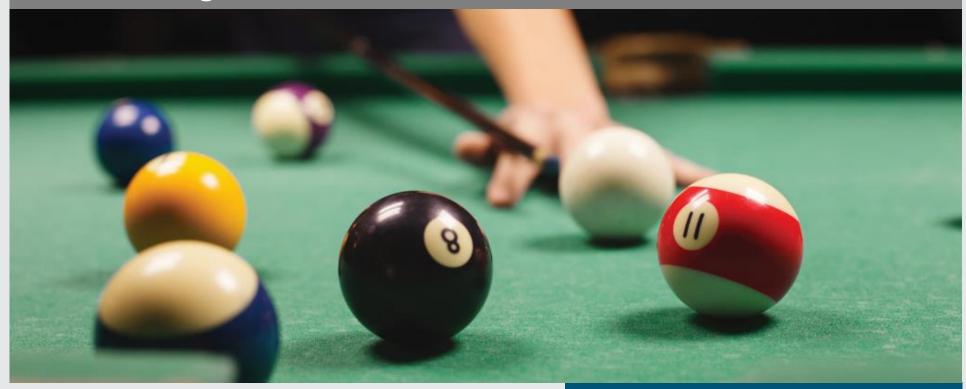
#### **Putting Theory into Practice**



Graham was appointed Head of Matching Solutions in March 2015. He has particular expertise in risk management, derivatives, insurance investment and project management. His main focus is on the management of a range of pooled funds and bespoke client portfolios for DB and DC pension scheme clients. Graham joined LGIM in 2007, originally working in the Derivative Trade Support team and moving to the Solutions Group in 2009. He is a graduate of the University of Southampton where he obtained an honours degree in management and accounting.

## **Endgame Portfolios and Role of Credit**

## **Paul Sweeting**



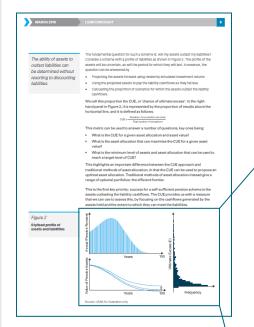
**CUE** new thinking for self sufficiency

#### **Key points**

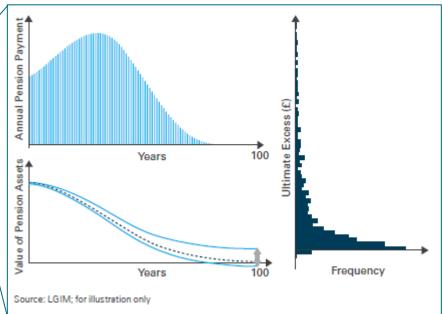


- Success for a self-sufficient pension scheme is the asset outlasting the liability cash flows
- A long-term investor who is less concerned with short-term volatility ought to be less concerned with spread changes, and thus able to "pocket" a long-term investor premium
- Continuous monitoring is important

#### The Chance of Ultimate Excess (CUE)



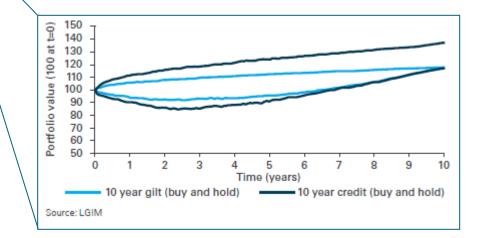
Key concept:
 Solvency is about the chance of ultimate excess rather than present values



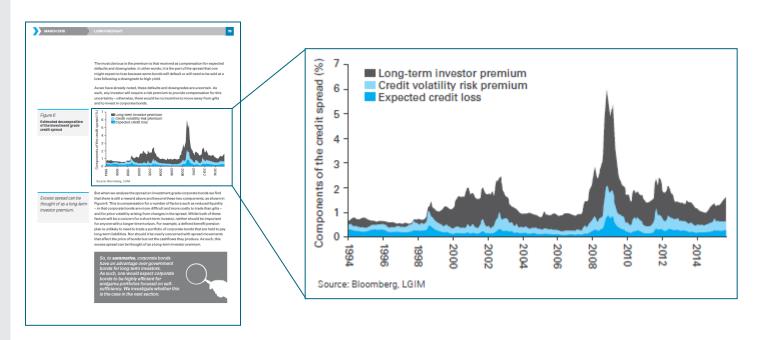
### Corporate bonds vs gilts



- Much of the short-term risk in corporate bonds comes from spread volatility
- A long-term investor can ride through this and take the premium for this risk

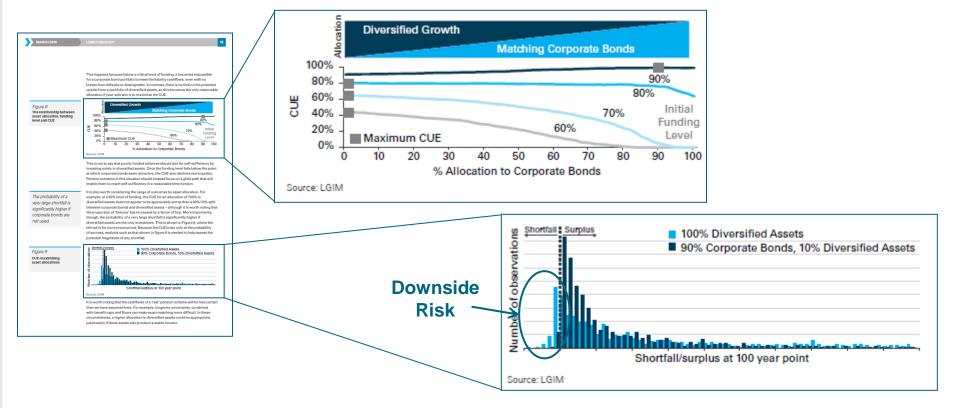


#### **Components of the credit spread**



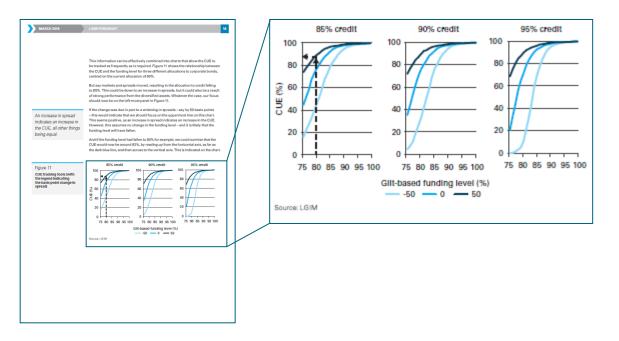
- Only some of the spread is for expected defaults and uncertainty over this risk
- The remainder of the premium is for a range of risks —
  liquidity, spread volatility that are of less concern to a long-term investor

### **CUE-optimising portfolios**



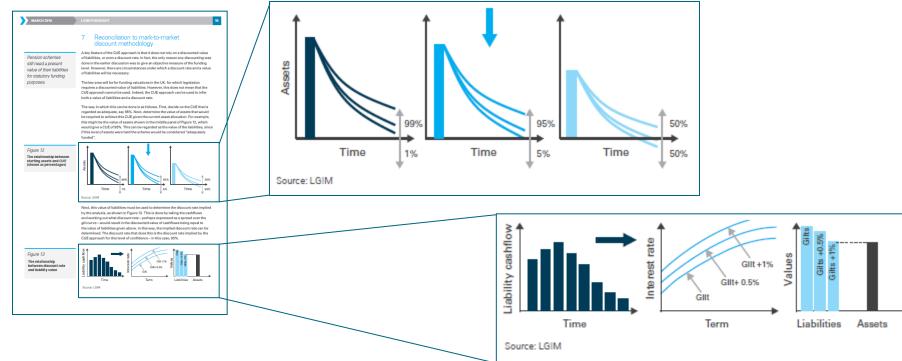
- For >90% funded (gilts basis), 90% corporates gives the best results
- Diversified fund looks good on a CUE basis, but downside risk is worse

#### **Continuous monitoring**



- Principle here is that sensitivities to changes in asset allocation, credit spread and funding can be calculated periodically...
- ...and then used to estimate change in CUE without the need to re-do stochastic calculations

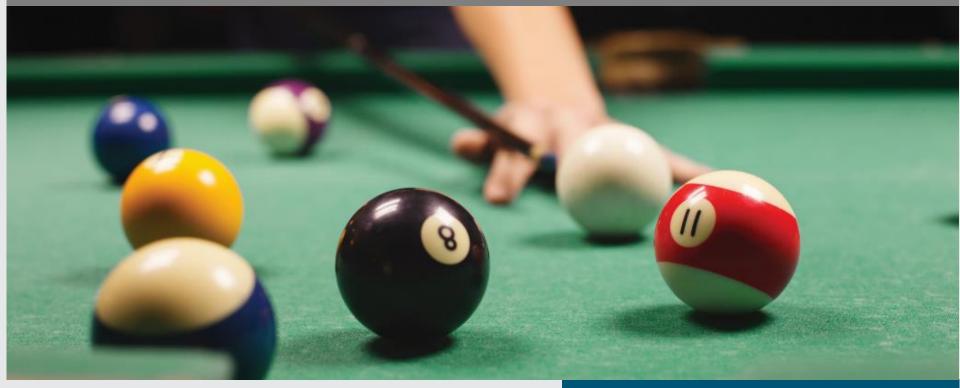
#### Bonus question – consistency with statutory funding objective



- Decide on a CUE that is "sufficient"
- Calculate assets needed to give this CUE
- Calculate the discount rate that sets the liabilities equal to this asset value

# **Putting Theory into Practice**

### **Graham Moles**

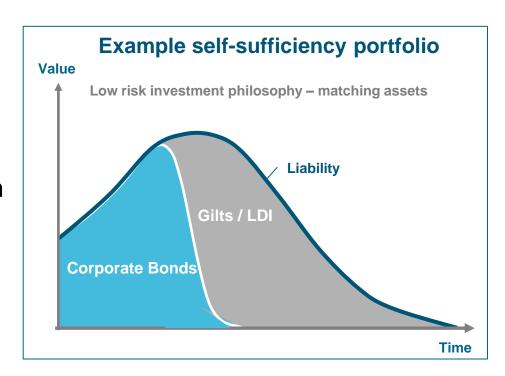


**CUE** new thinking for self sufficiency

#### Future-proofing a credit allocation

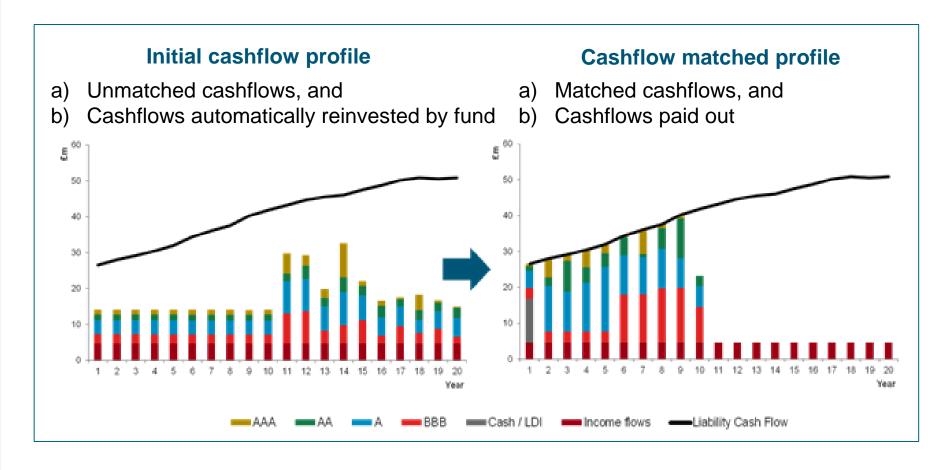
#### **Cashflow matching can reduce future costs**

- 50% of FTSE 350 DB schemes are cashflow negative or soon will be\*
- Opportunity cost of realising cash
- Prepare for the endgame by investing in liability-aware credit



#### Building a portfolio to cashflow match

#### Illustrative schematic



#### Building a cashflow-matching portfolio

Set parameters

Define universe of preferred bonds

**Optimise** 

Understand the requirements

Select preferred universe - stable long-term issuers

Create model portfolio – iterative process

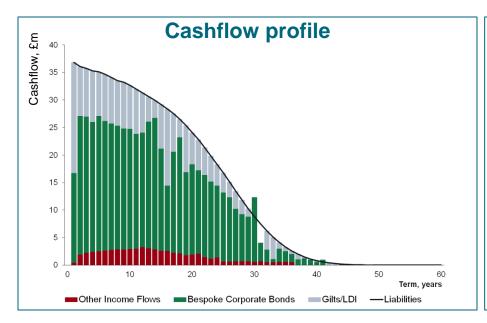
Implementation and management

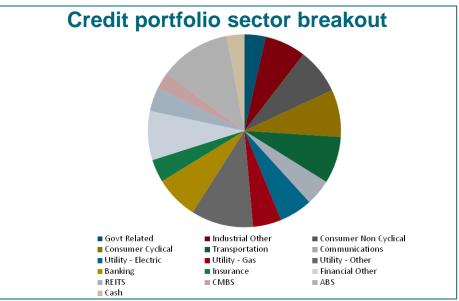
Pragmatic approach – avoid unnecessary costs

#### **Cashflow matching: Case study 1**

DB pension scheme - cashflow match pension payments only

- Cashflow match pension payments only incorporating all asset cashflows
- Designed subject to minimum return target across portfolio
- Phased restructure of existing corporate bond portfolio

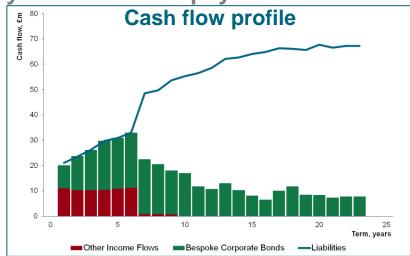


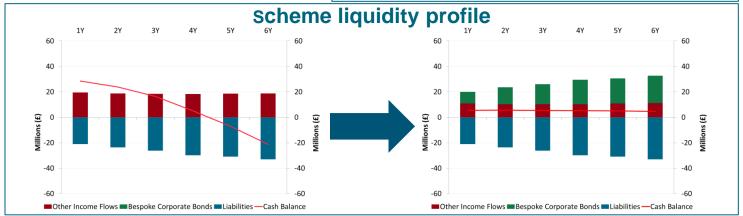


#### Cash flow matching: Case study 2

DB pension scheme – cash flow match first 6 years of benefit payments

- Reshaped holdings to fully meet expected liability payments over first 6 years
- Future bond purchases to target >6 years cash flow requirements







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