

Investment Strategy for Pensions

Reflecting covenant strength in investment strategy

Paul Thornton OBE & Simon Willes
Gazelle Corporate Finance

14 May 2014



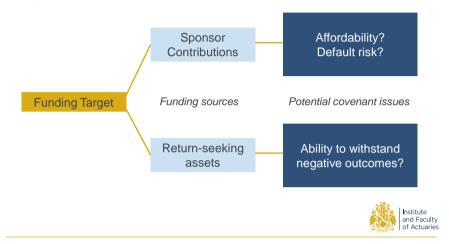
What this presentation covers

- Why covenant is important
- Problems with current approaches
- Integrated risks solution
- Implications for setting investment strategy
- · Regulatory focus





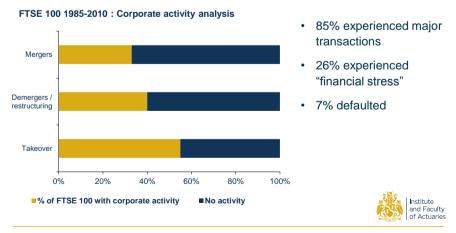
Why covenant is important



14 May 2014



Can covenant be ignored if the sponsor is strong?





ALM models and contributions

- Recovery plan contributions are assumed to be paid
- Nil contributions stress test?
- No allowance for uncertainty of sponsor resources



14 May 2014



VaR and contributions

- VaR presents a "deficit" resulting from adverse investment outcomes
- Can VaR be repaired with additional contributions?
 - If not then we experience sponsor default or scheme default
 - These expose a scheme to losses
- Is there a value for additional contributions?
 - Current equity market value?
 - Ignores uncertainty, correlation between investment returns and sponsor covenant





The solution is modelling sponsor financial resources stochastically

- Net cash flow modelled stochastically
 - Overlaying the risk of sponsor default
 - Reflecting the legal structure of covenant support
- Compare stochastic sponsor resources with recovery plan
- Expected contributions reflect affordability and default risk



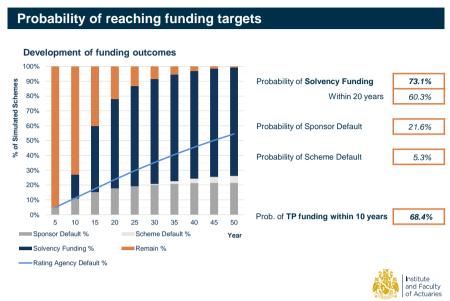
14 May 2014



Scheme funding outcomes now reflect interacting risks

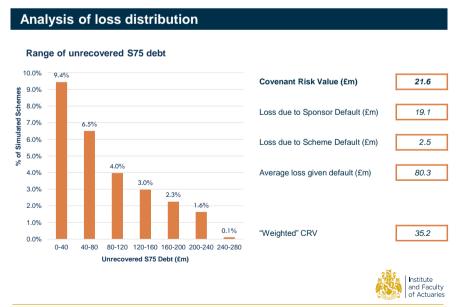
- We examine metrics which reflect this:
 - the probability of reaching a scheme funding target over time
 - monetary measures of scheme loss resulting from sponsor default and scheme wind-up outcomes





14 May 2014

Illustrative outputs and metrics from Mousetrap®





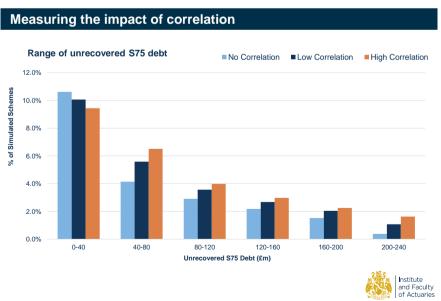
Integrated Risk Modelling provides new insights

- A more prudent and realistic view
- Information is in a form Finance Directors can relate to
- Valuable new information is accessed:
 - A wide range of sensitivities
 - Correlation between sponsor resources and investment outcomes
 - · Affordability of contributions

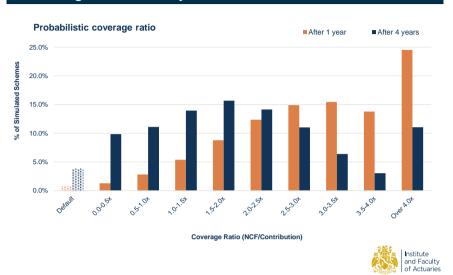


14 May 2014

Illustrative outputs and metrics from Mousetrap®



Measuring the affordability of contributions



14 May 2014

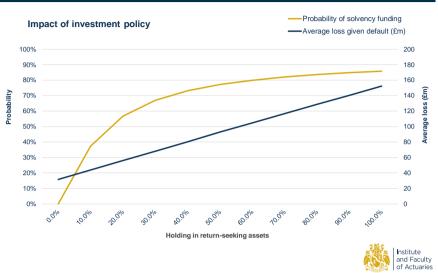


The connection is now established between covenant & investment strategy

- Using these integrated risk metrics the scheme loss exposure can be examined for any given investment strategy
- This provides an independent cross-check on the appropriateness of investment strategy given the strength of sponsor covenant



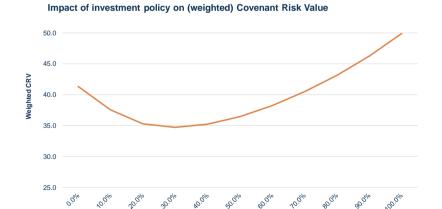




14 May 2014

Illustrative outputs and metrics from Mousetrap®

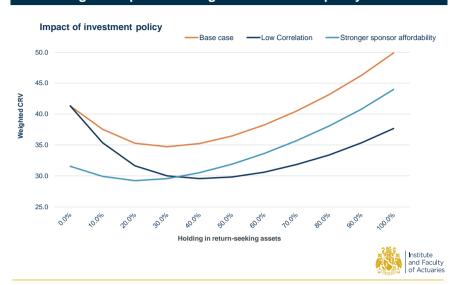
Measuring the impact of changes in investment policy



Holding in return-seeking assets



Measuring the impact of changes in investment policy



14 May 2014



Our findings from using IRM so far

 Covenant strength is an important "scheme asset". How is it best used?

To support investment risk exposure

Sponsor can deal with poor investment outcomes

To facilitate de-risking

 Less risk from a prolonged path to self-sufficiency





Our findings from using IRM so far

- Covenant weakness presents issues for investment policy as the proportion of benefits members can expect to receive may be low
 - Does de-risking reduce or increase loss exposure?
 - Can suitable pension credit enhancements facilitate investment risk exposure?



14 May 2014



A key area for regulatory focus

- TPR review letters now regularly question consistency between investment strategy and covenant
- Need to measure the ability of sponsors to repair large potential deficits and "evidence" this
- Risk management reports under IORP II





Two illuminating examples

- Scheme A: fully-funded on a Technical Provisions basis, fully derisked but dependent on parent of weak UK formal sponsor to achieve solvency funding or buy-out and still exposed to material unrecovered S75 debt on sponsor default.
- Scheme B: high equity exposure consistent with strong multinational parent but UK formal sponsor unlikely to be able to repair poor investment outcomes



14 May 2014



Example Case Study

- TPR questions sponsor ability to withstand adverse investment outcomes
- Methodology:
 - · ALM provides expected investment outcomes
 - Mousetrap ® provides matching expected contributions reflecting uncertain sponsor financial resources and covenant support structure
 - Integrate ALM and Mousetrap ® to give simulated funding outcomes with correlation
- Resulting scheme loss exposure represents simulations the sponsor was unable to repair
 - Examine using statistical measures
 - Examine poor investment and poor sponsor scenarios





Interacting risks require integrated solutions where covenant advice and investment consultancy combine

Covenant is a complex risk - if integrated with ALMs it must be properly modelled with full access to detailed covenant input

