

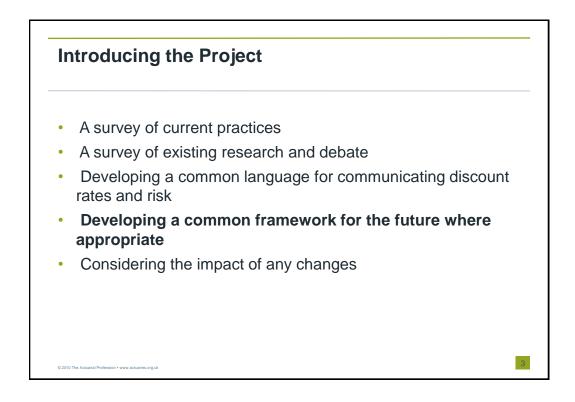
Agenda

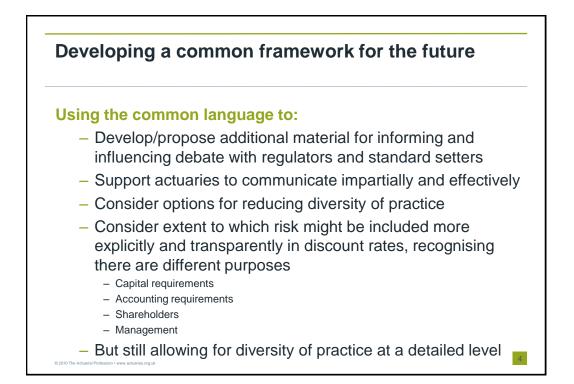
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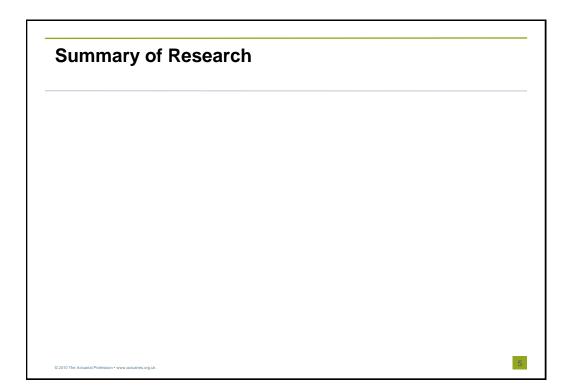
Introducing the Project Summary of Research Framework and Recommendations Next Steps

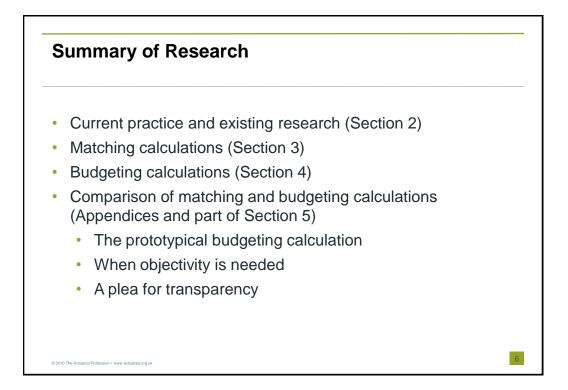
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Introducing the Project Charles Cowling, Chairman (Pensions) **Robert Hails** (Management Board) Andrew Smith Ralph Frankland (Life assurance) James Orr (General insurance) Malcolm Kemp (Investment and ERM) Ruth Loseby (Research Manager) Maria Lyons (Research Assistant) © 2010 The Actuarial Profession • www.actuaries.org.uk



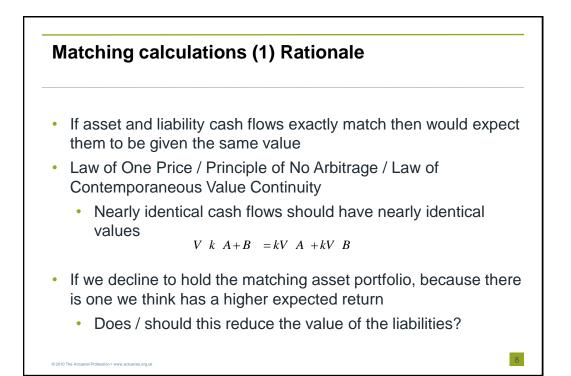


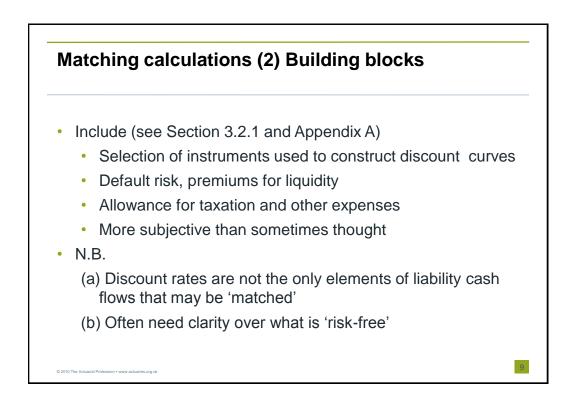


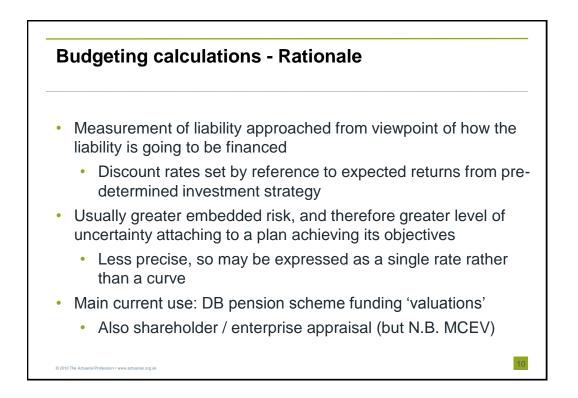


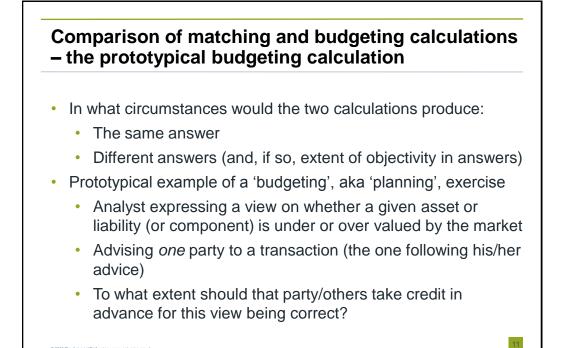
Wide range of discount rates are / have been used in practice

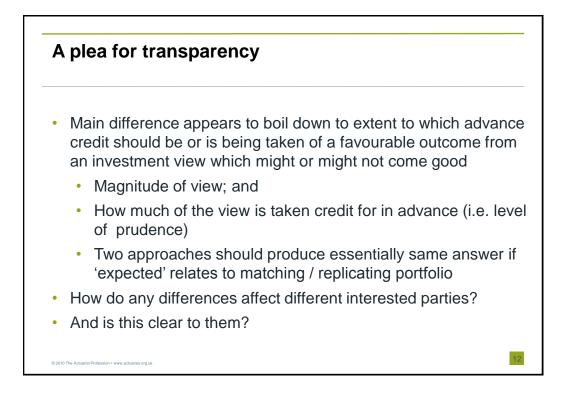
- Prudent vs. realistic vs. smoothed
 - What is the purpose of the valuation?
 - · Discount rates not the only elements in valuations
- Some not directly related to asset markets, e.g. Social Time Preference Rate
 - · Based on comparisons of utility through time
- · Utility considerations introduce debate on price vs. value
- Consistent valuation of asset and liability cash flows
- Classify between matching and budgeting is choice binary?

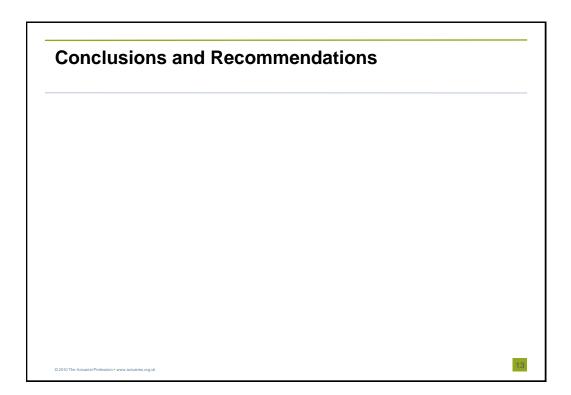


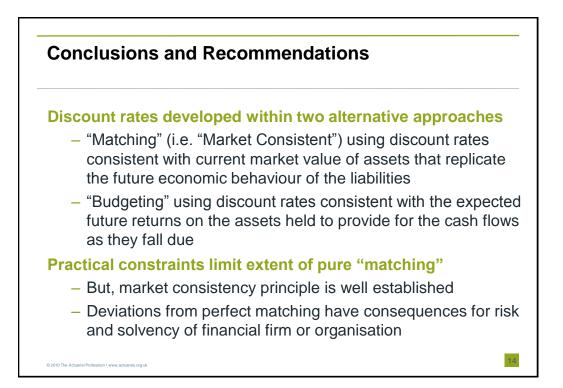












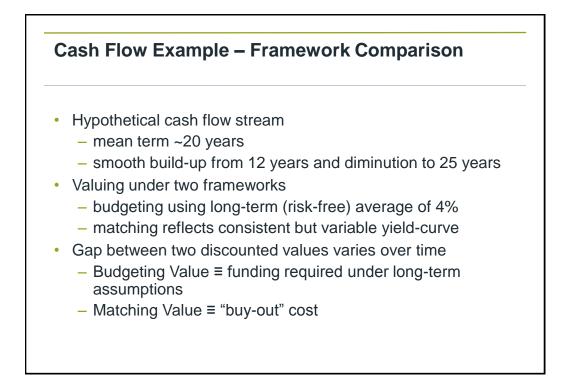
Applications of the Two Approaches

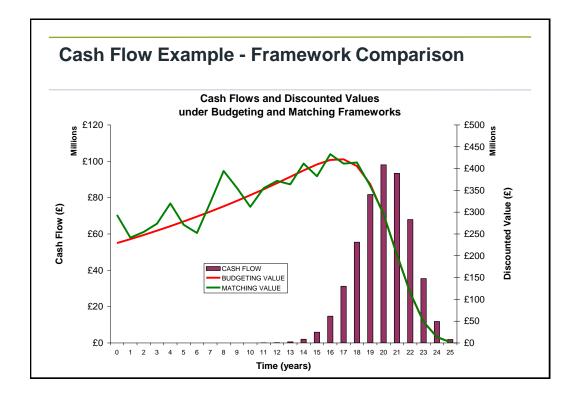
"Matching"

- Transactions, avoiding arbitrage
- Adequacy of assets, knowing that these can secure liabilities in market if perfect matching can be achieved

"Budgeting"

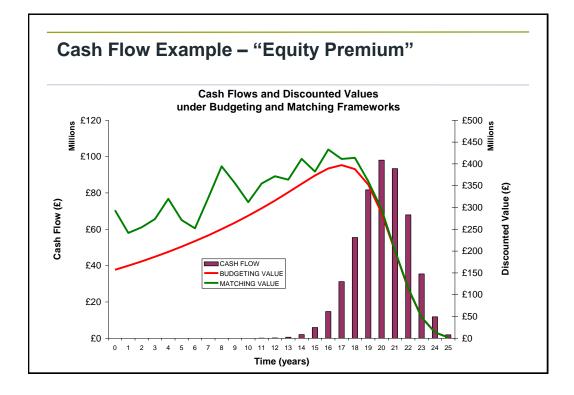
- Planning, based on assumed rates of return
- Funding, where market transactions or market comparisons are neither required nor anticipated

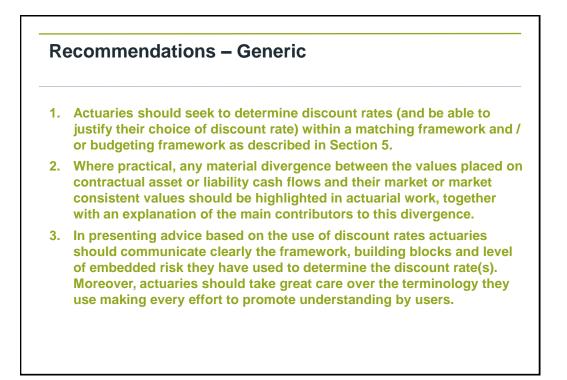






- Same hypothetical cash flow stream
- Still valuing under two frameworks
 - budgeting using expected average equity return of 6%
 - matching reflects consistent but variable yield-curve
- · Gap between two discounted values varies over time
 - Budgeting Value ≡ funding required under long-term assumptions
 - Matching Value ≡ "buy-out" cost
- Investing in equities will create further risk







Recommendation 3

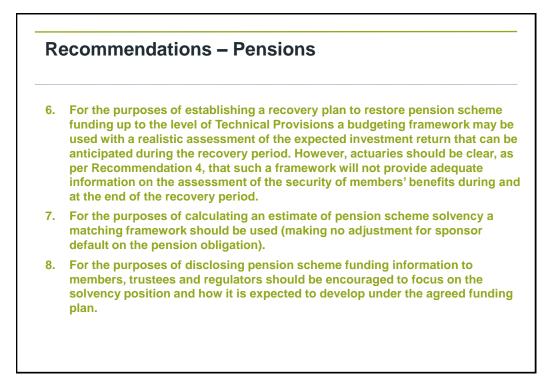
 In presenting advice based on the use of discount rates actuaries should communicate clearly the framework, building blocks and level of embedded risk they have used to determine the discount rate(s). Moreover, actuaries should take great care over the terminology they use making every effort to promote understanding by users.

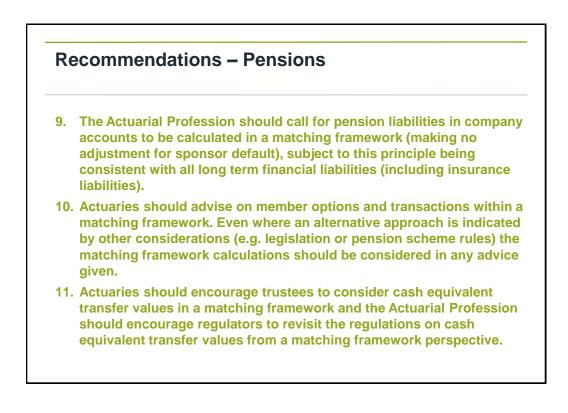
Reflects importance of communication of key issues

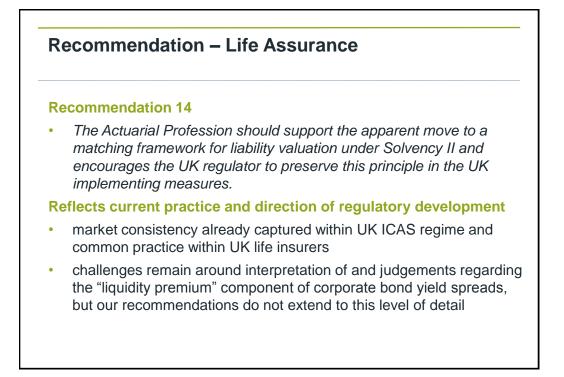
- The appropriateness of the framework and the building blocks to the issues addressed.
- The risks associated with the chosen framework and building blocks.
- The factors relevant to the specific application.

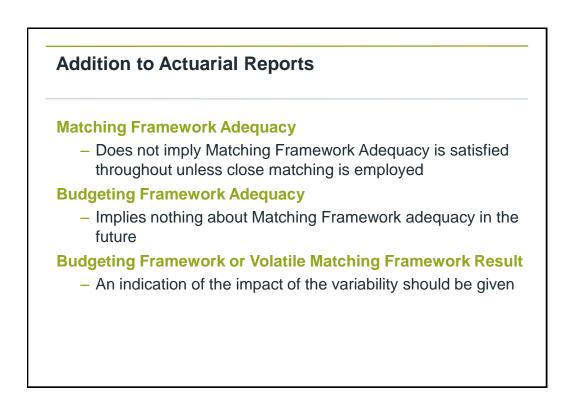
Actuaries and the Actuarial Profession should be clear (to their clients and to regulators) that the use of a budgeting calculation alone in the assessment of Technical Provisions will not provide adequate information on the assessment of the security of members' benefits. In assessing what is a "prudent" discount rate for the purposes of calculating Technical Provisions under UK regulations, consideration should be given primarily to the current or evolving pension scheme investment strategy, it being noted that there may then need to be other explicit elements of prudence included in the liability calculation if the overall result is to be sufficiently prudent as far as the Pensions Regulator is concerned.

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Open discussion					

