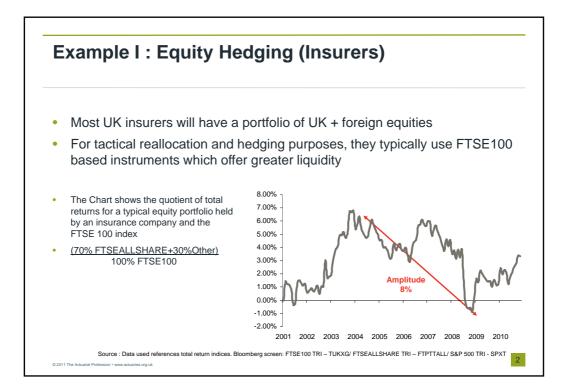
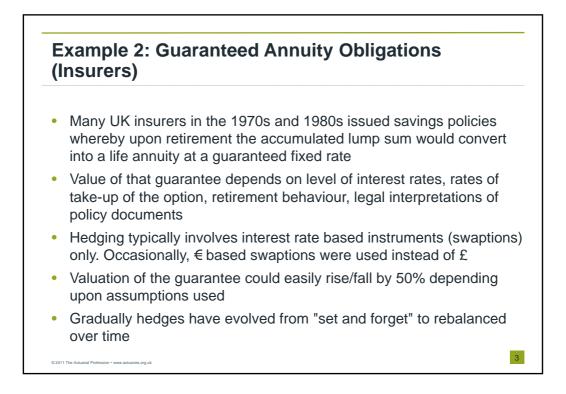
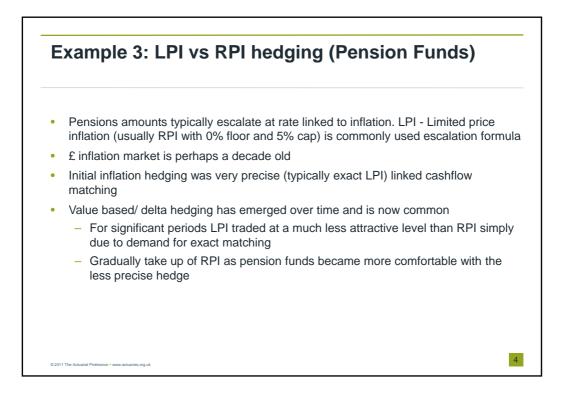


Basis Risk General Definition The risk that offsetting instruments in a hedging strategy will not experience price changes in entirely opposite directions from each other. This imperfect correlation between the two instruments creates the potential for excess gains or losses in a hedging strategy, thus adding risk to the position. **Definition in the Context of Longevity Risk** Here we mean the risk that mortality improvements between national population mortality and a subset of the population, typically an employee pension scheme, deviate from one another NB we are talking about large insurers/pension schemes where the law of large numbers applies. For small groups, idiosyncratic risk can dominate . Key issue is improvement trend rather than this year's mortality rates **Our thesis:** Longevity basis risk is modest compared to other types of basis risk run by UK pensions and insurers 1. 4 examples across insurance company and pension fund asset liability management There has been too much focus on the basis risk on the longevity side 2. Addressing the overall trend ought to be the main focus 1

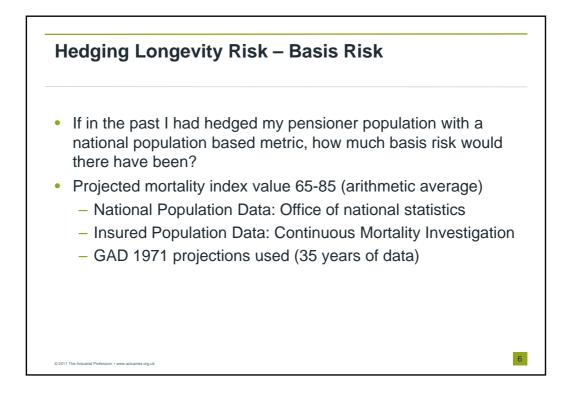


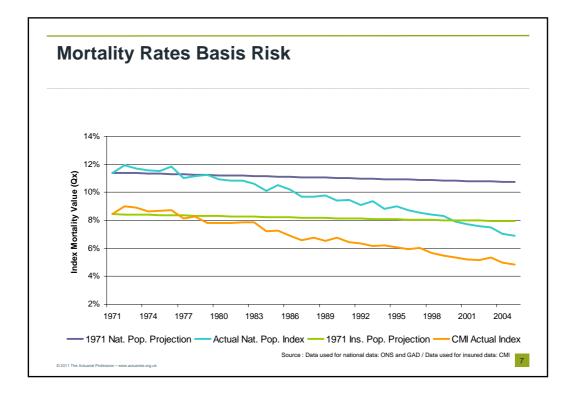


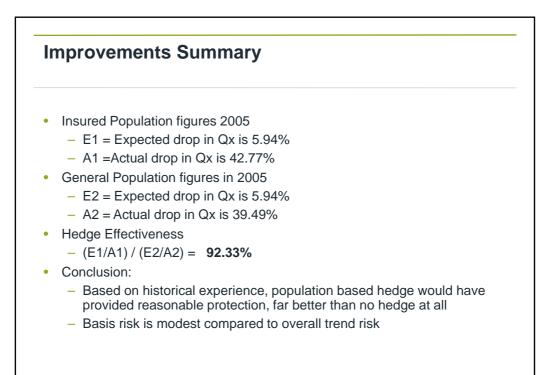


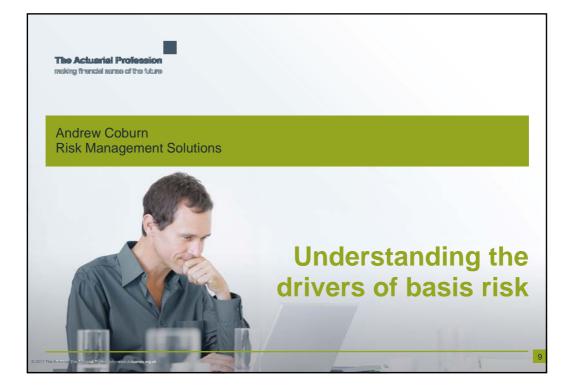


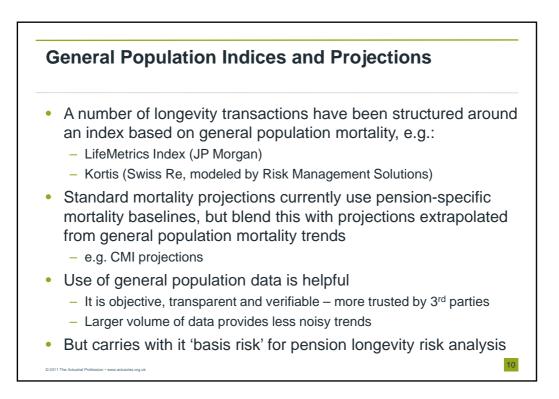
- In June 2010 the Minister for State for Pensions announced that CPI rather than RPI will be used as the basis for future indexation of pension rights in defined benefit schemes
- CPI is typically lower and over the past 20 years it has been higher than the RPI only three times
- This might reduce UK pension liabilities by 10%



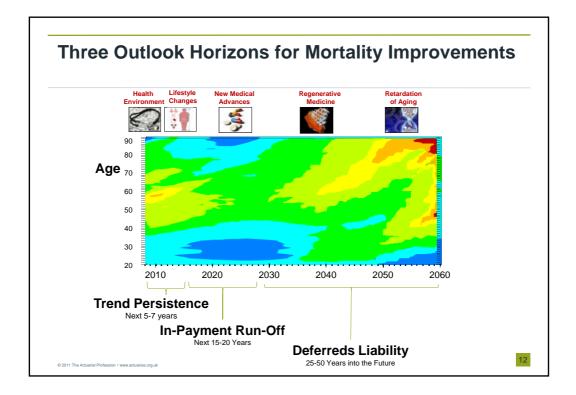


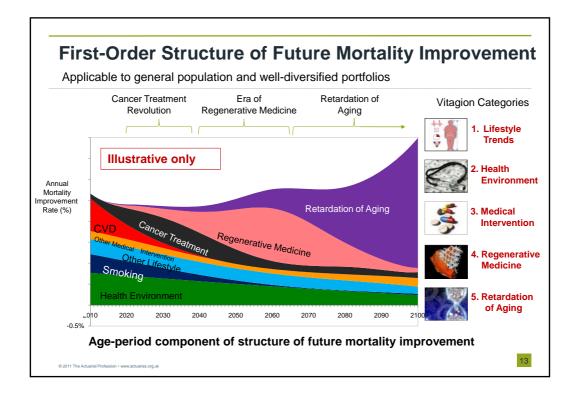


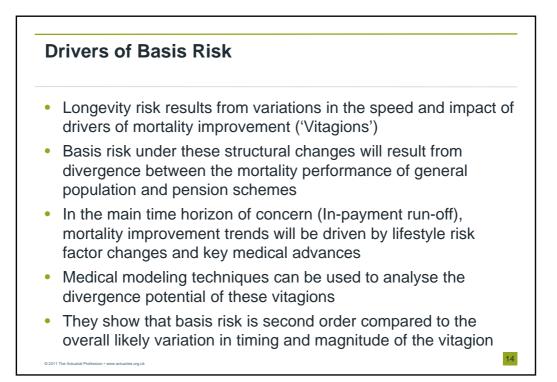


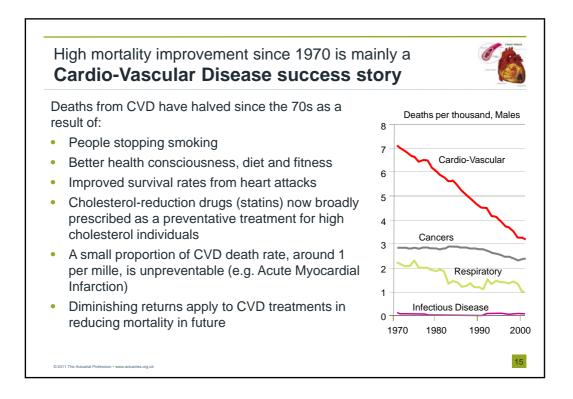


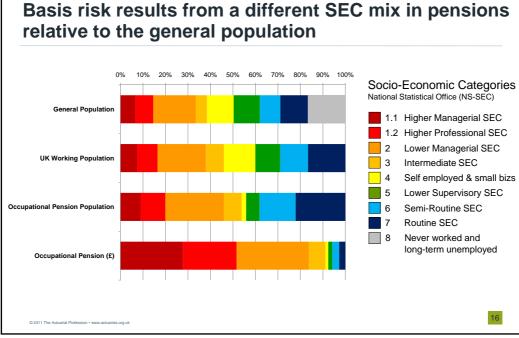












Basis risk results from a different SEC mix in pensions

