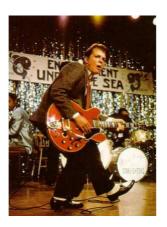


## **Opening comments...**



## Looking to the future



I guess you guys aren't ready for that yet. But your kids are gonna love it.



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#### What I've done...

- Constructed a model
- Look at the period 1970 to 2012
- Consider what has happened
- · Look at different schemes
- Look at different approaches
- What does it tell us about the future?



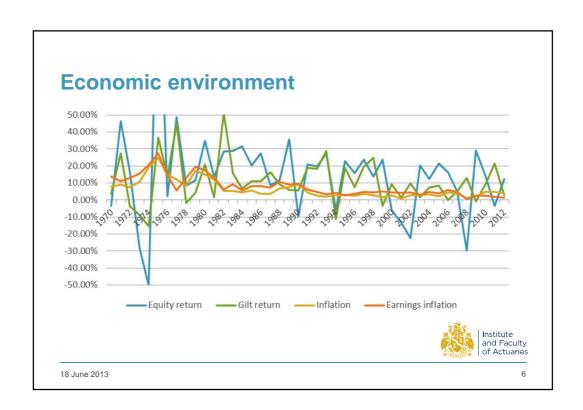
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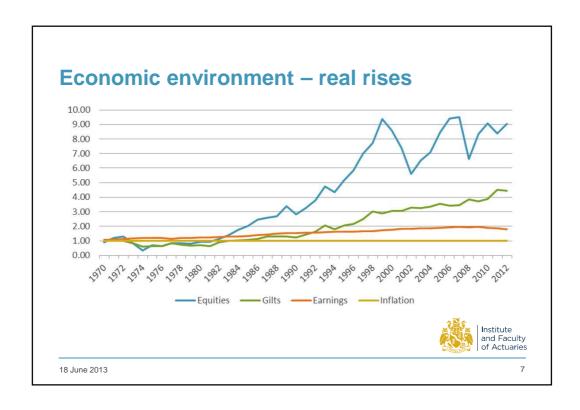
## Big model – lots of data and assumptions!

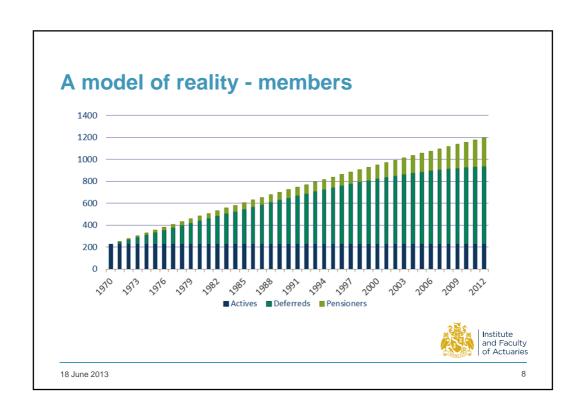
- · A few thousand valuations!
- Key simplifying assumptions:
  - Everyone makes it to retirement
  - Constant workforce/scheme membership
  - We're all male
  - Contracted-in/60ths scheme
- Key data sources:
  - Survey of actuaries in First Actuarial past practice
  - BarCap Equity Gilt Study

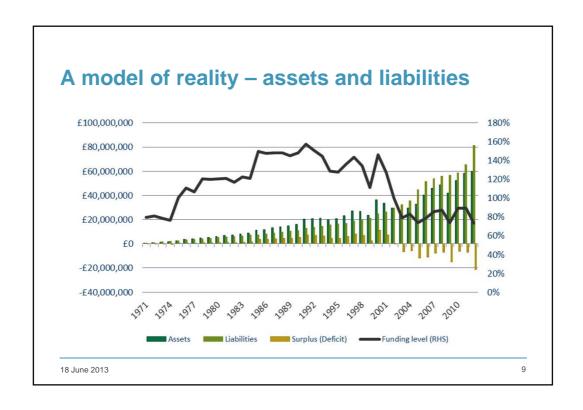


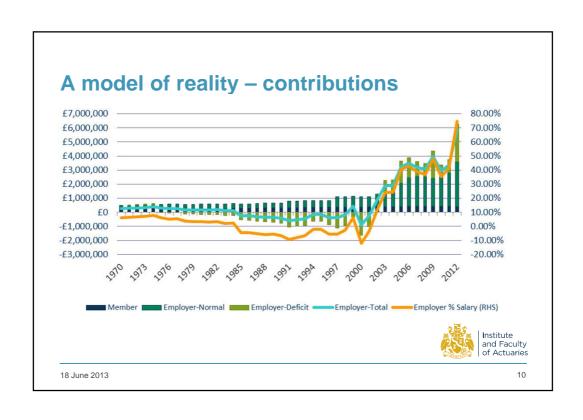
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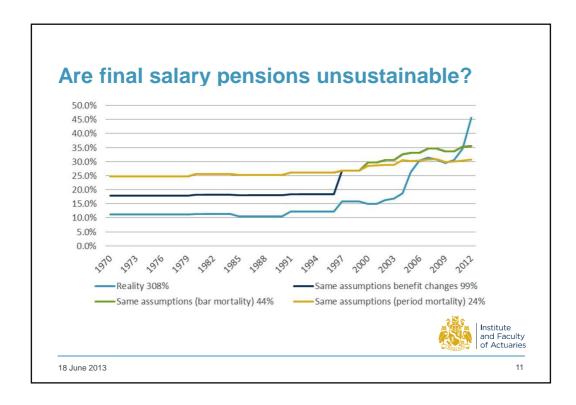








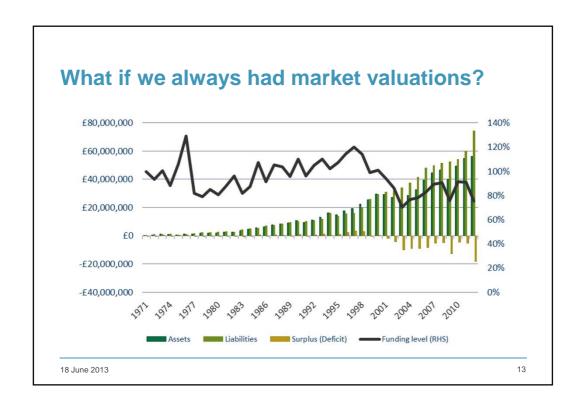


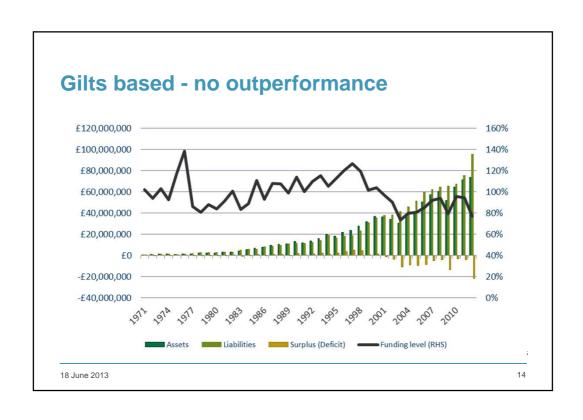


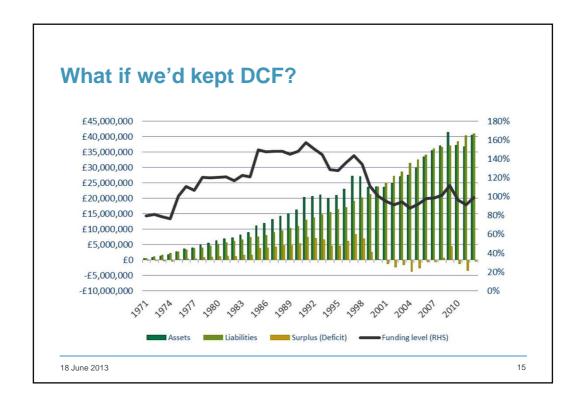
## Are final salary pensions unsustainable?

- Yes
  - When you look at the overall increase
- No
  - When you look at the actual increase in benefit cost
  - It is our funding mechanism that causes the problems
- => We need to look at different approaches to funding







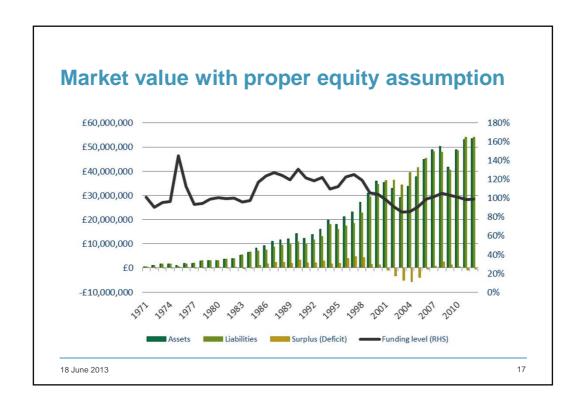


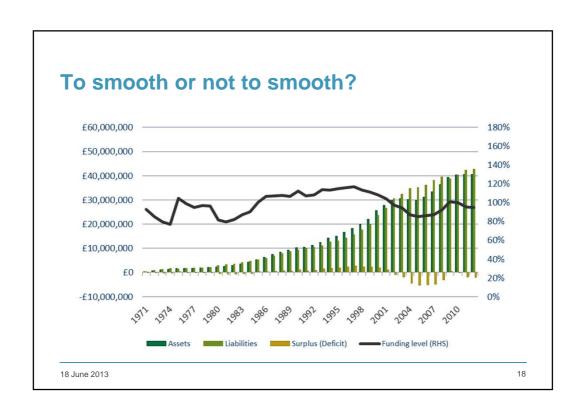
#### **Market valuation vs DCF**

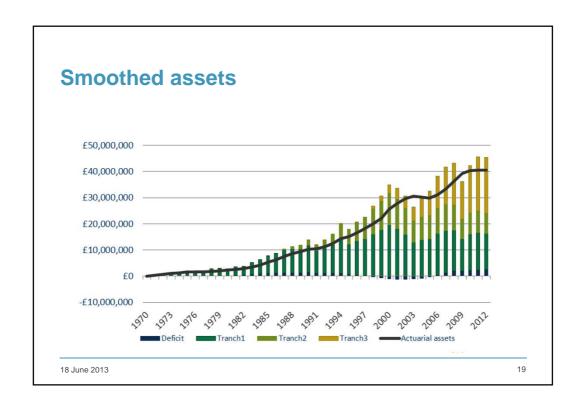
- · My conclusion is market value is better than DCF
  - More transparent
  - Less odd looking results
  - More volatile
    - BUT... not so much more than DCF to be concerned

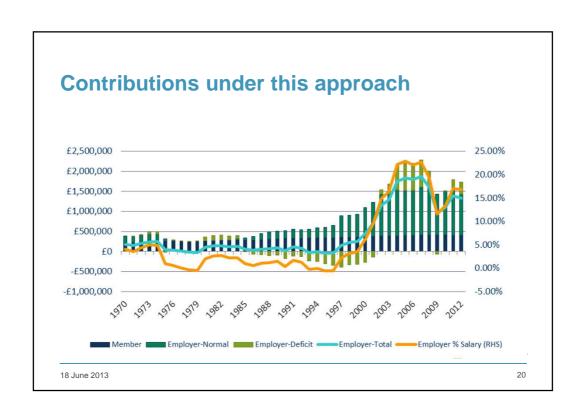


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### Final thoughts on valuation approaches

- · This approach is less prudent
- But it is still prudent
- Questions:
  - How prudent do we need to be?
  - Security or affordability?
  - Certainty or better benefits?



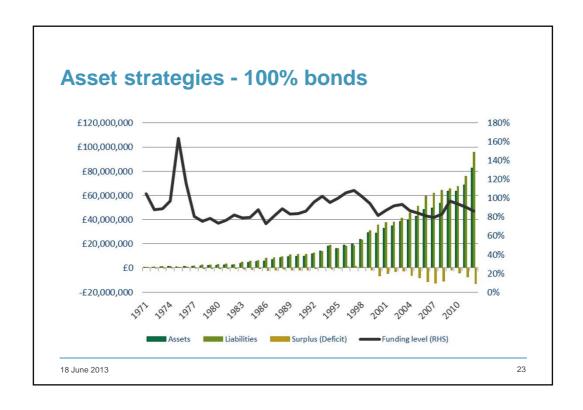
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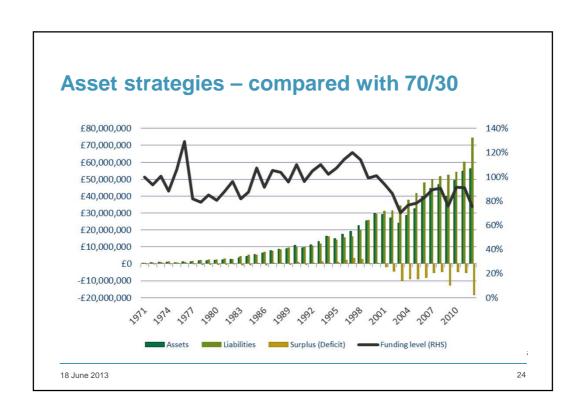
## Final thoughts on valuation approaches

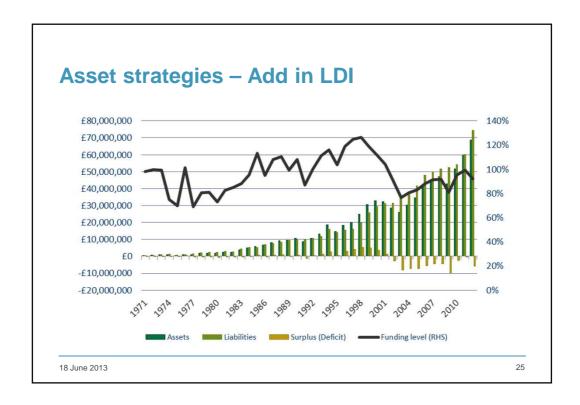
- Current regulation
  - built around PPF protection
  - member protection not really there
  - high costs
- Instead of the PPF being the problem make it the solution
  - No need to worry about security
  - Can focus on efficient vehicles and good member outcomes



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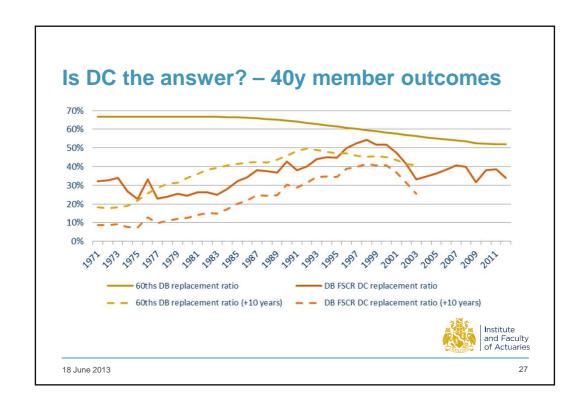


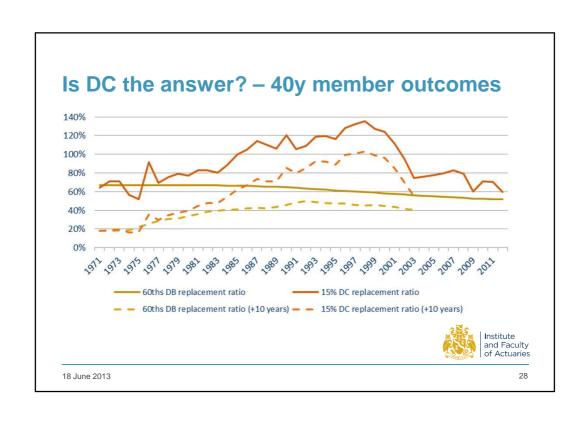


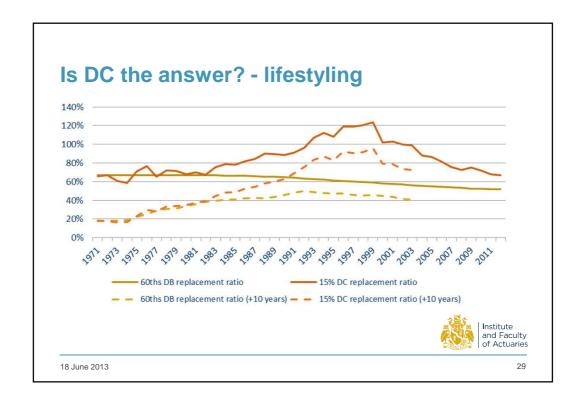
#### Is DC the answer?

- UK seems to have decided so
  - Replacement scheme when DB closes
  - Vehicle of choice for state auto-enrolment NEST
- The good
  - Easy and risk free for the employer (in the traditional sense)
  - Value very transparent
- The bad
  - It's not really pension, just savings
  - Inefficient
  - Lots of risk and much to understand for members





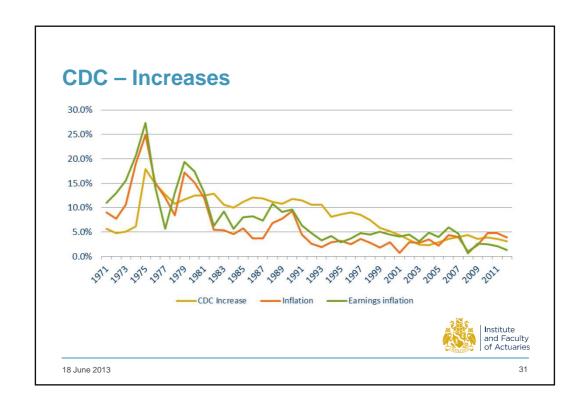


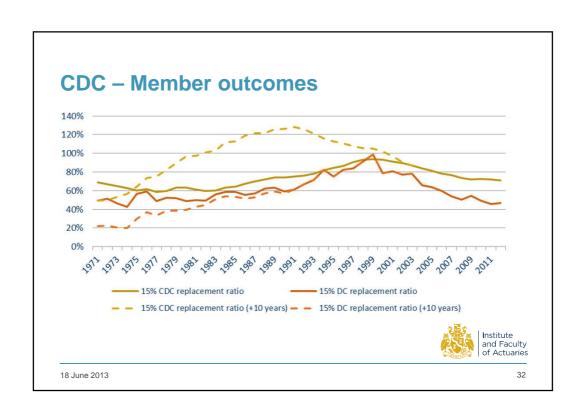


## Collectively we do better - CDC

- · Contributions fixed like DC
- Assets equal liabilities like DC
- · Career average benefits like DB
- Increases dependent on performance
  - Before and after retirement
  - In and out of service







#### **Conclusions on CDC**

- Better outcomes for members
- More stable outcomes for members
- No extra cost to employers
- => Surely we should think about it more?!!



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## **Summary – key conclusions**

- · Value liabilities using better assumptions
- Smoothing works
- Solve the insolvency problem
- LDI works (but solves the wrong problem)
- · DC not as bad as I thought
- · Lifestyling works
- · CDC is so much better!



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## One final thought

Pensions? Where we're going, we don't need pensions.





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## **Questions**

# Comments

Expressions of individual views by members of the Institute and Faculty of Actuaries and its staff are encouraged.

The views expressed in this presentation are those of the presenter.



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