

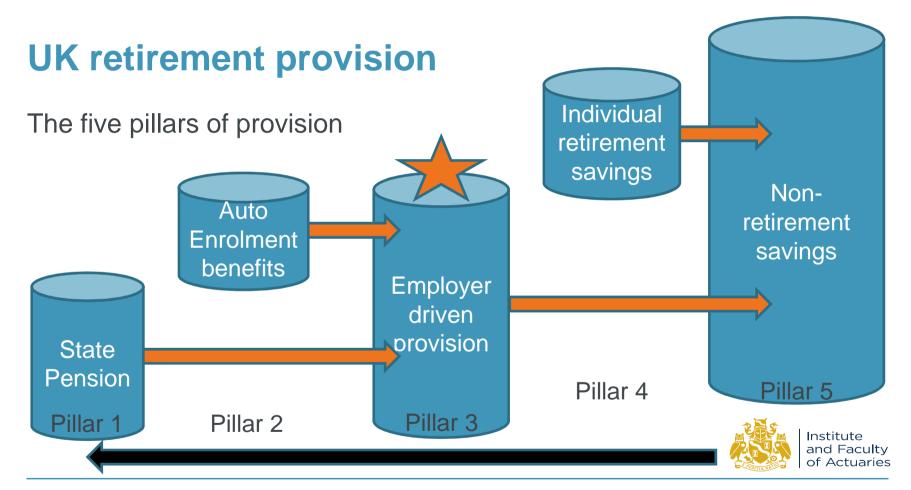
Sustainable Retirement Solutions

Jenny Richards, BBS Actuaries & Consultants
Marcus Hurd, Xerox HR Services
Iain Clacher, Leeds University Business School

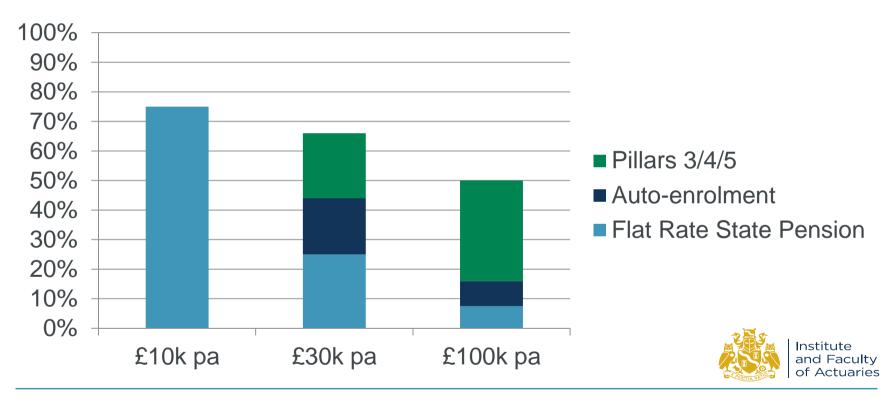
Viable retirement solutions for the long-run: Are there any sustainable retirement solutions out there?

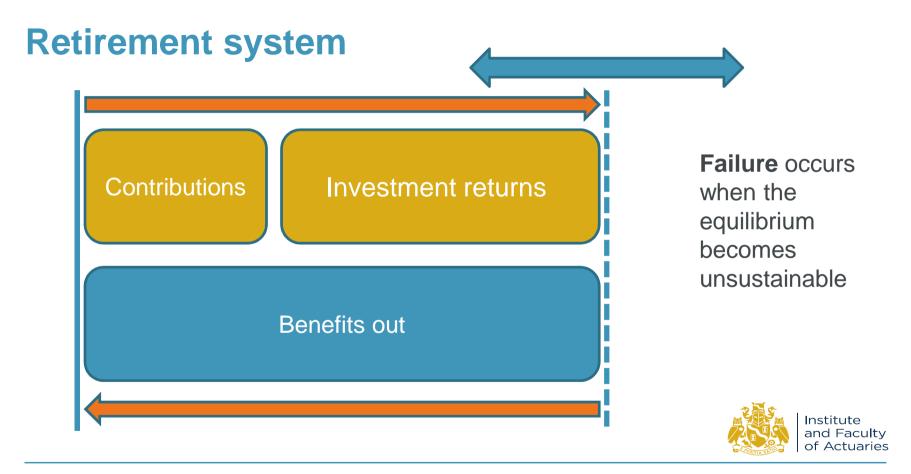
Richards, Hurd & Clacher (2016)





UK retirement provision





Sustainability

- Terms of reference for retirement vehicle
 - Wealth distribution
 - Risk sharing



Risk mitigation



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Initial construction of model

Structure of retirement systems

$$-A_{t+1} = A_t + C_t - B_t * (1+i_t)$$

$$- L_{t+1} = B_t * a_b - C_t * a_c$$

- General structural decisions
 - Collective vs individual
 - Membership
 - Demographic experience
 - Inflation allowance



Net cashflows - complete market, 'perfect' world



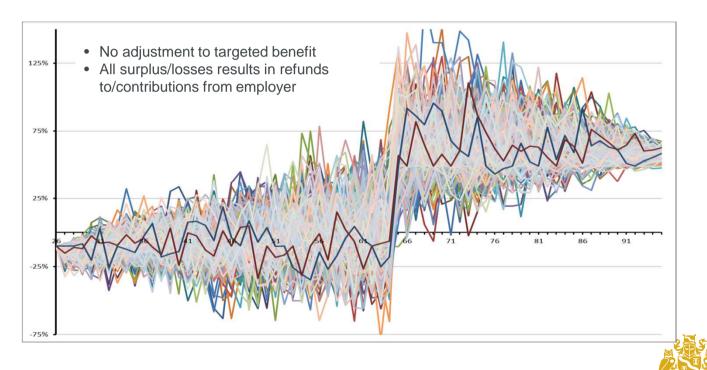
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DC type vehicle – annuity purchase



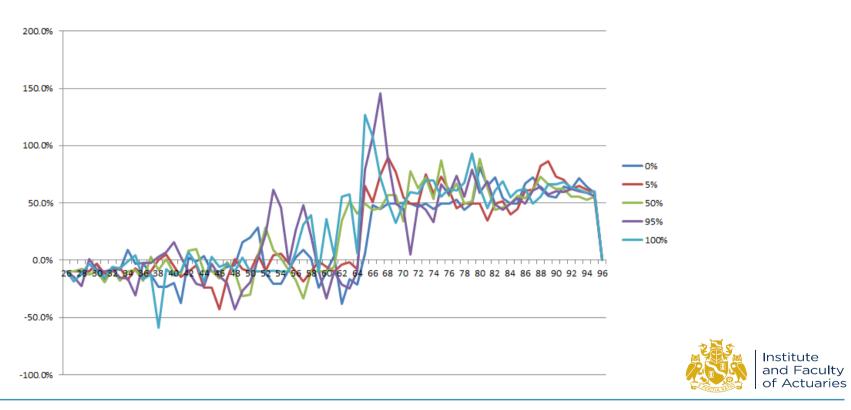
DB type vehicle



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Failure scores



Defining sustainability & failure

- What causes failure
 - Contributions
 - Benefits

"this isn't working, I need an alternative"

- Types of failure
 - Absolute
 - Relative

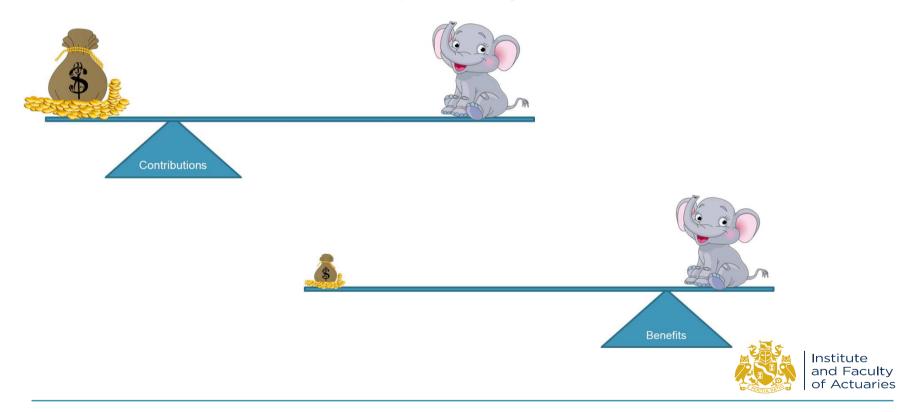


Funding framework

- Levers to generate sustainability
 - Primary levers
 - Benefits
 - Contributions
 - Secondary levers
 - Recovery period
 - Investment strategy
 - Prudence
- Political & regulatory influences



Model conclusions – primary levers



Model conclusions – secondary levers (1)

- Inflationary linked vs non inflationary
- Best estimate vs prudent funding
- Collective vs Individual
- Volatility



Model conclusions – secondary levers (2)

- Regularity of assessments
- Asymmetry of remediation
- Impact of lifecycle
- Acceptable fluctuation buffers
- Ability to accept variable income streams



Desirable social features

- Cross generational subsidies
- Relative wealth how rich is my neighbour?
- Desirable sustainable outcomes from investment of funds
- Individual engagement



Conclusions (1)

- Is failure inevitable?
 - Only if lessons not heeded?
 - If inevitable, then design for failure?
- Social change critical
- Financial education also critical
- Risk sharing mechanisms within DC/DB
 - Responsibility of the provider
 - Role of collectivism



Conclusions (2)

- Achieving macroeconomic goals (e.g. investment in growth economy)
- Reflect other economic and political needs at the time
- Sharing the wealth in a fair and proportionate way
- Free from political direction (?)
- Monitor the State's ability to cross-subsidise and tax (?)
- Flexibility essential, but applied fairly and responsibly



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.

