

# What is the origin of the Variable Annuity?

### A US insurance based retirement drawdown product

- An "annuity" is generally recognised as an insurance drawdown product in the US market (immediate/fixed/variable/deferred)
- A "variable" product is generally recognised as an insurance product allowing direct investment into funds (UL in UK)
- May include financial guarantees whose impact is closely linked to non-market risks

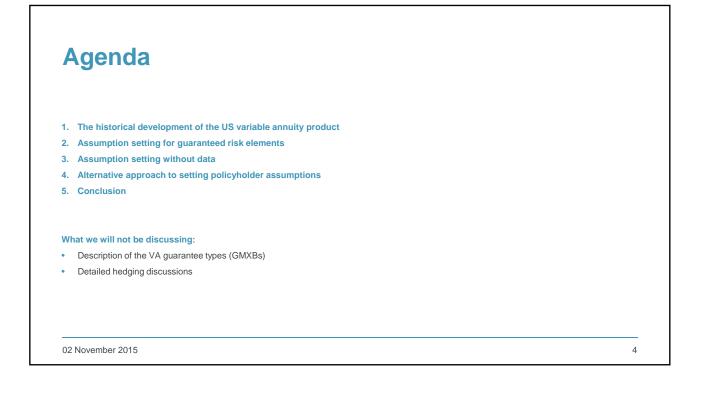
#### Pensions Reform has created an opening for a VA like product

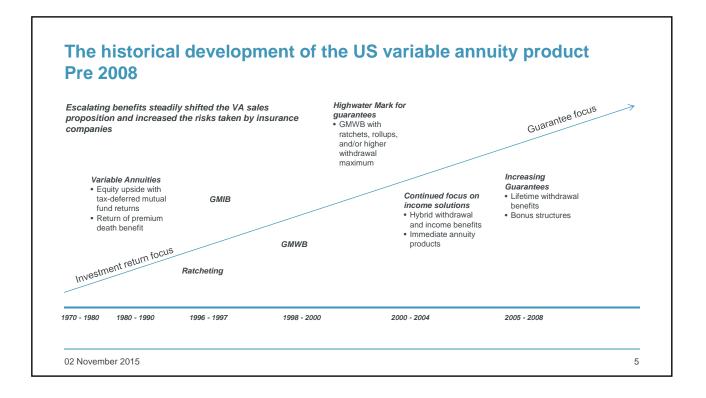
- Drawdown environment
- · Equity exposure with significant guarantees especially in current environment
- Flexible and transparent

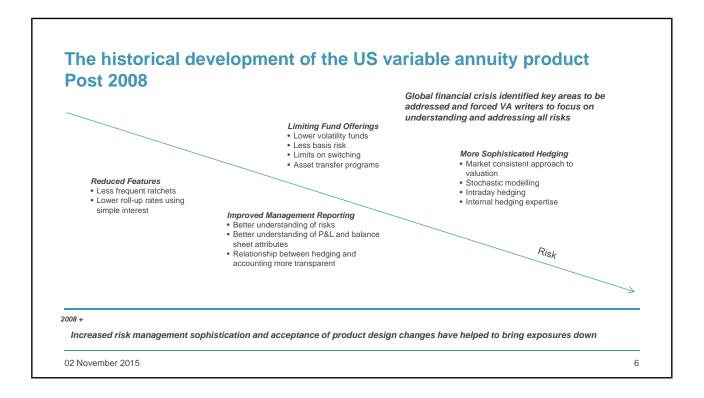
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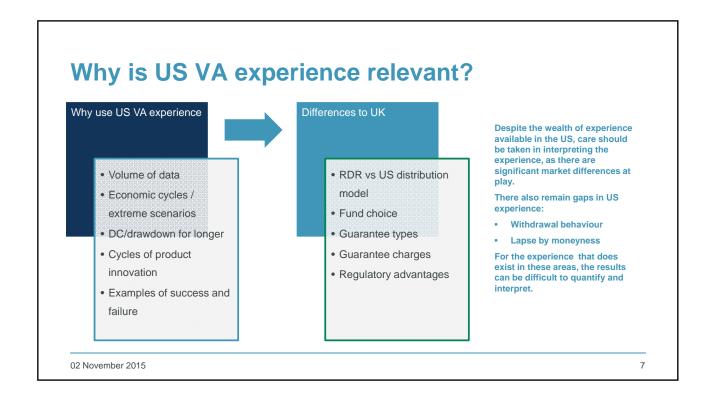
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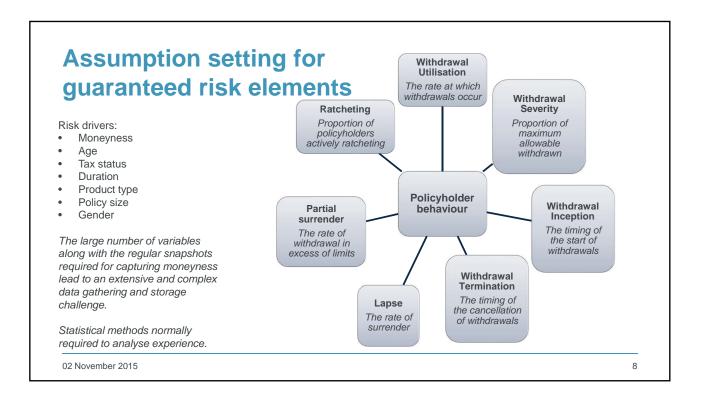
Our speakers	
Gus Williams, PwC Ireland <ul> <li>18 years of industry experience, including 3 years in US where held the position of IFRS and USGAAP valuation actuary for a large V</li> </ul>	/A block.
Michael Leahy, Prudential Europe <ul> <li>26 years of industry experience across UK, Ireland and Germany.</li> </ul>	
James Isherwood, PwC UK <ul> <li>12 years of industry experience, including 4 years in the US where he was involved in Economic Capital and Solvency II modelling of</li> </ul>	VAs
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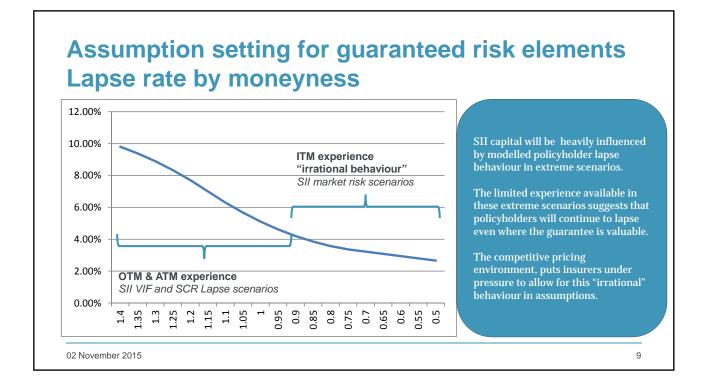






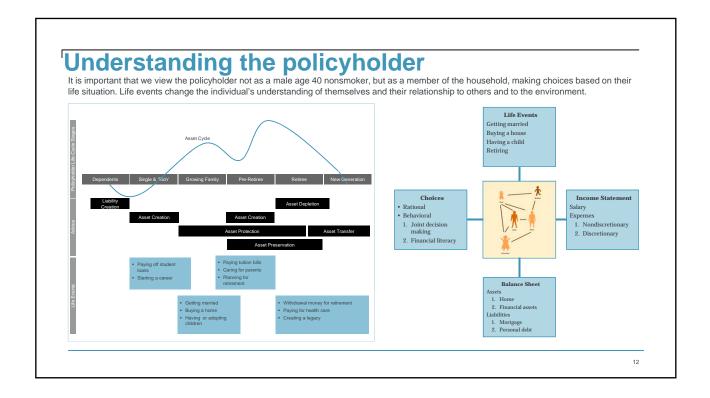


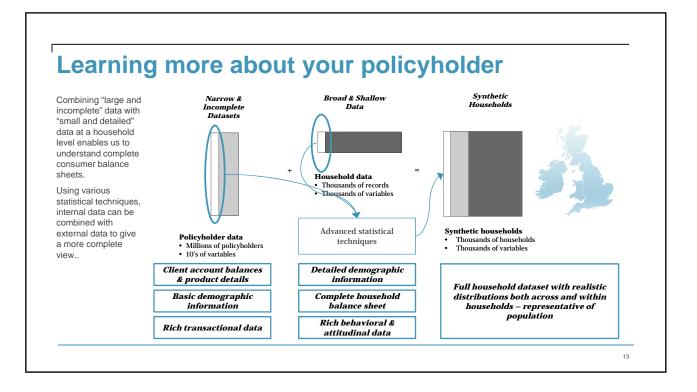


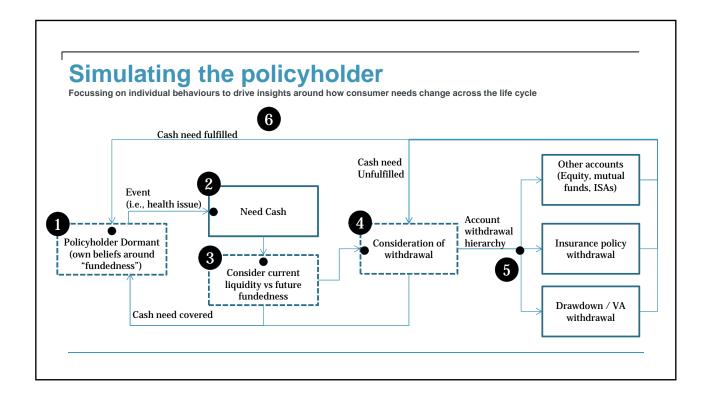


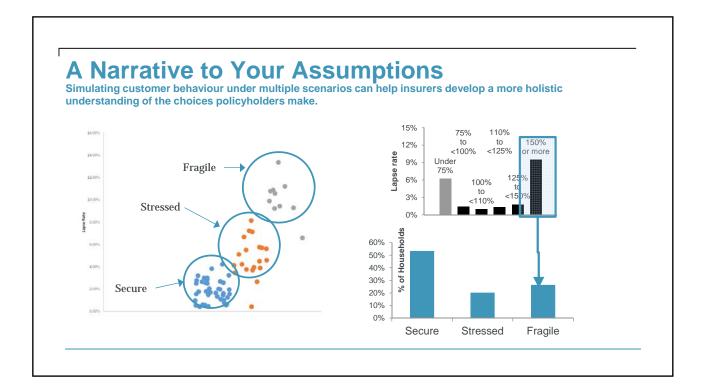
## **Assumption Setting without Data** Context What is state of the art on policyholder behaviour How does this compare to analysis of market risks or longevity • Exercise Increasing importance of expert judgement on policyholder behaviour RDR Pensions Freedom Solvency II Governance Technical committee Board & non-executive directors Best estimate versus prudence A new challenge requires new tool .... 02 November 2015 10

nged – more flexibility brings more options, and more heterogeneity. t having data provides important context but does not mean you understand behaviours ion reform means historic, imperfect data is even less of an indicator of the future (central estimate or in th e around your assumptions is important – to do this you need to understand your policyholder	ne tail)
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# Conclusions

US example demonstrates need to understand unexplained behaviour for drawdown products, particularly where guarantees exist

- Not enough to just use US data
- Rational behaviour from the policyholder perspective is not same as for Lifeco. Rationality is in the eye of the beholder.
- Significant risks undertaken and large exposure to unhedgable risks

### Pensions Reform is already having an impact on wider drawdown market

· Large number of unknowns in the setting of assumptions - getting it right will drive competitive advantage

#### **Risks of using unadjusted experience**

- Historical data not likely to be an appropriate indicator of future
- Need to develop internal support for central estimate and tail assumptions, along with related correlations.

### Features of successful product / provider

- Understand customer needs and behaviour consider the nuances that drive the behaviour
- Insurance guarantees are important differentiator over other products
- · No need to enter in to guarantees arms race, but greater need to understand the value of the guarantees attaching

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