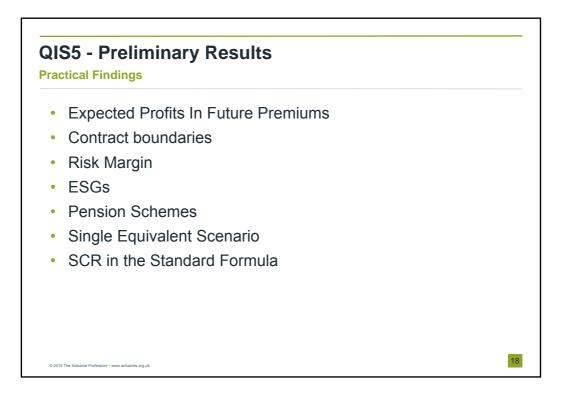
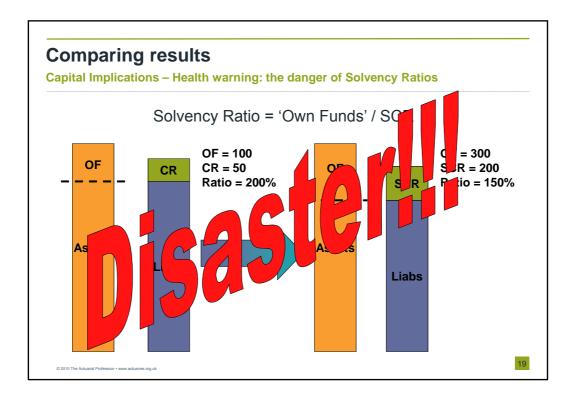
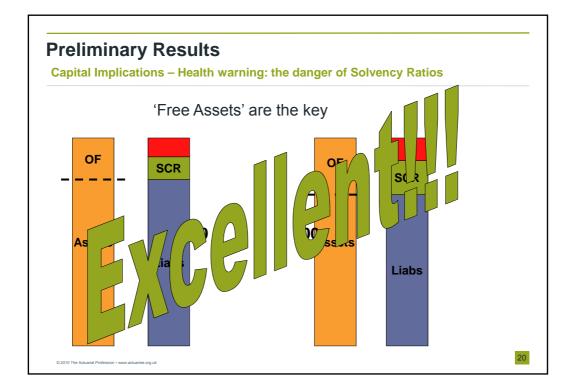
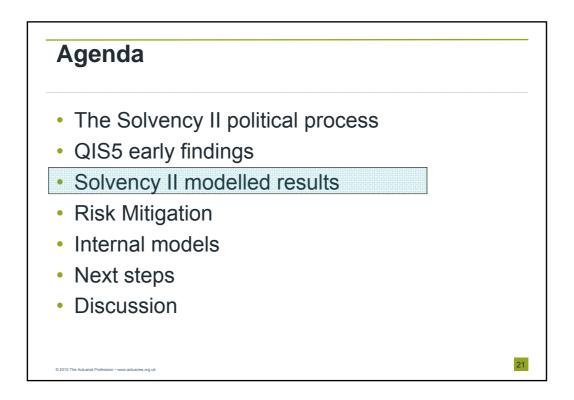


QIS5 - Background Why bother?	
• Firms:	Understand where they sit under Solvency II Understand what they need to do to get ready Influence
 Decision 	makers:
	Understand the capital implications of new regime Understand practical implications
	Hone the regulation
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Modelled Results

Capital impacts

SII versus Solvency I: A health warning

- Solvency I is currently in force across EU
- Implementation not consistent across EU
- UK ICAS in force
- This is closer to SII than SI
- SII ≠ Standard formula !
- Must also consider other factors:
 - capital tiering
 - profits on future premiums

Modelled Results

Capital impacts

Annuity

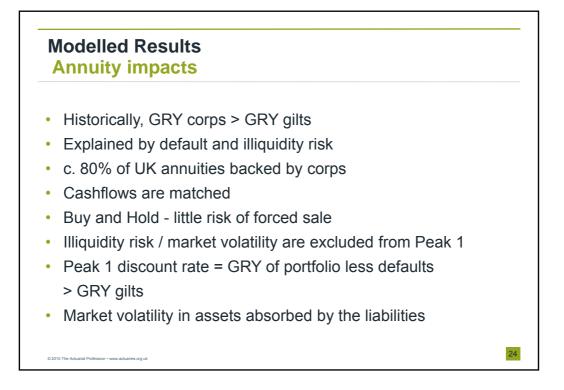
- Technical Provisions: Up to 10%> Peak 1 reserves
- · Due to Risk margin and only partial allowance for ILP
- SCR approx 20% of TP: (Spread risk, Longevity)
- LTICR was only 4% under Peak 1

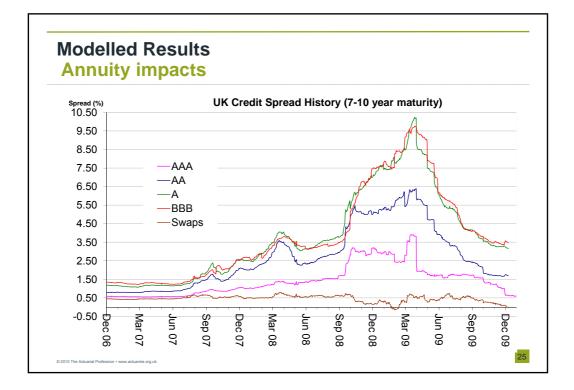
UL

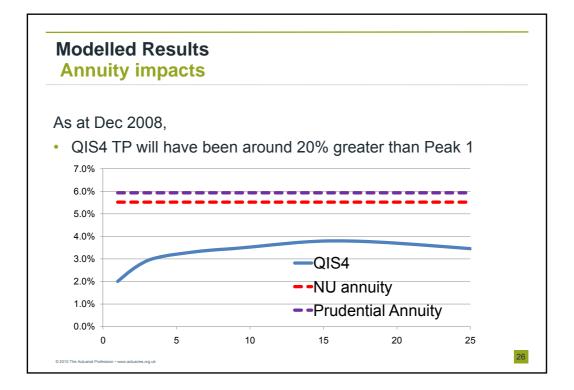
- Technical Provisions could be around 95% of unit fund
- SCR contributes 1%-3% of units. (Little risk borne by company)

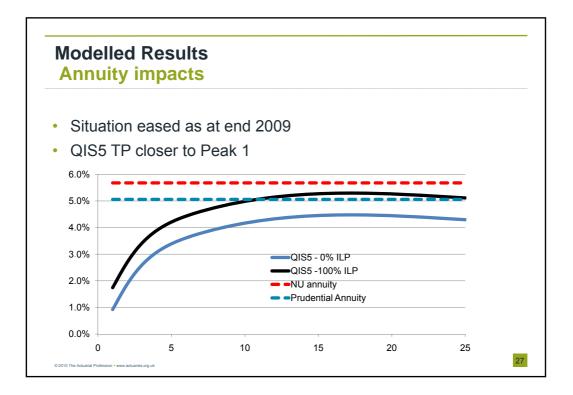
<u>WP</u>

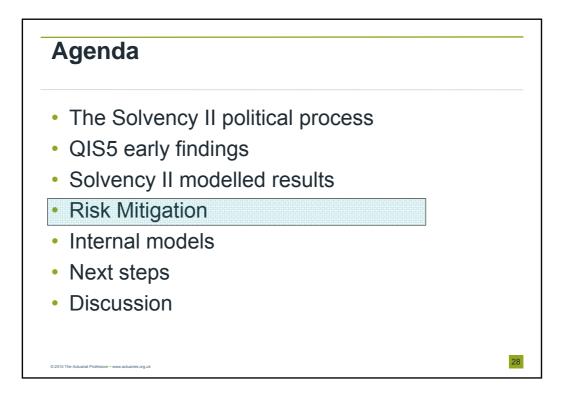
Impacts vary considerably by firm

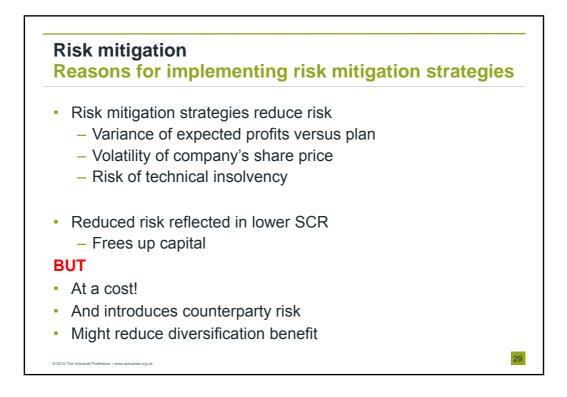


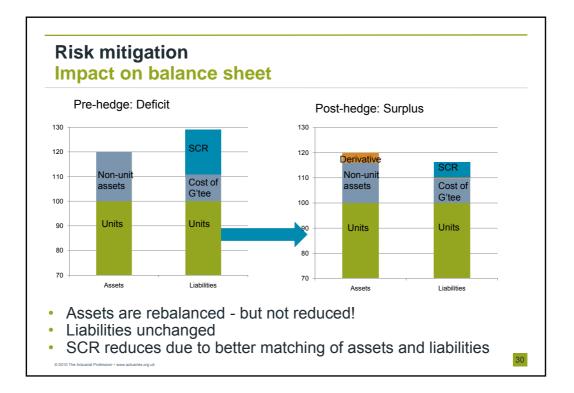


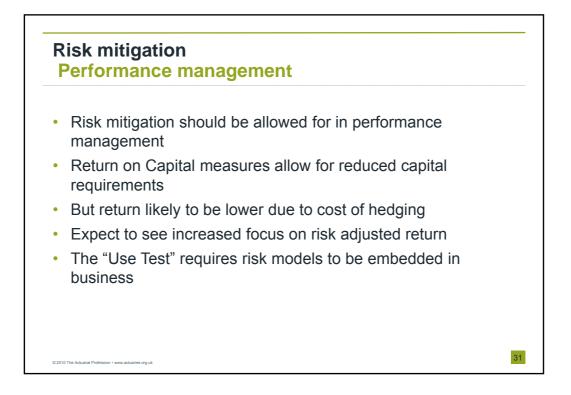












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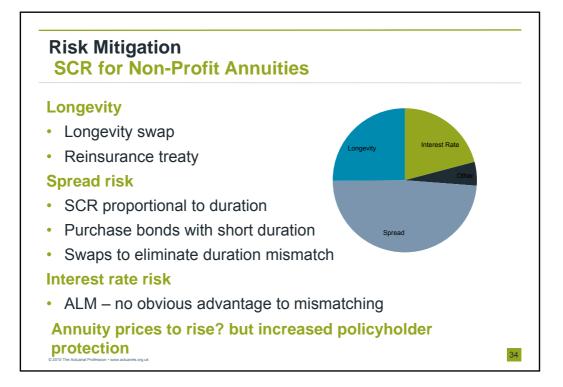
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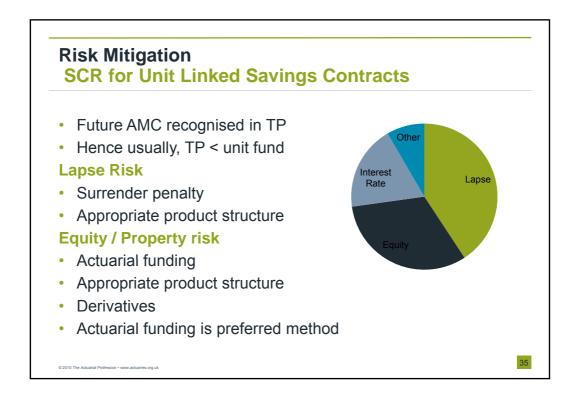
Risk Mitigation Non-Profit Annuities

- QIS5 illiquidity premium calibration:
- Max { 0, 50% * [spread on IBOXX less 40 bps] }
- =72bps (GBP) as at 31 December 2009
- Does not depend on actual assets of the insurer
- Holding only gilts => exposure to narrowing spreads
- Holding 100% corp bonds => exposure to widening spreads
- Perfect matching = 50% gilts / 50% IBOXX corp bonds
- Mismatch risk partially measured by SCR for illiquidity premium
- Capital to protect against 65% fall in ILP Impact ~5% of TP
- But illiquidity stress <u>reduces</u> overall SCR if SCR_{illia}<SCR_{sp}
- SCR minimised when holding <<50% corporate bonds

Risk Mitigation Non-Profit Annuities

- A further source of volatility arises from QIS5 discount rates
- Risk Free Rates implied by swaps, plus illiquidity premium
- Swaps spread (over gilts) has varied between -15bps and +50bps
- Holders of bonds are therefore exposed to spreads decreasing
- It is likely that annuity providers will want exposure to the swaps risk free rate
- Either directly through Euribor / LIBOR deposits + swaps
- Or indirectly through spreadlock contracts
- These contracts generate a payout when spreads decrease
- But insurer pays out if spreads increase





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