The Actuarial Profession making thandal sense of the future

Highlights of 2012 Life Conference Derek McLean & Emily Penn



The Risk-Free Rate: Politics, Economics & Investments

17 April 2013

Origins of this presentation

Working party on "How to hedge the risk-free rate under Solvency II"

- Rationale for hedging
- Extrapolation to an "ultimate forward rate"
- QIS5 liquidity premium

Life Conference 2011

Society of Actuaries Ireland

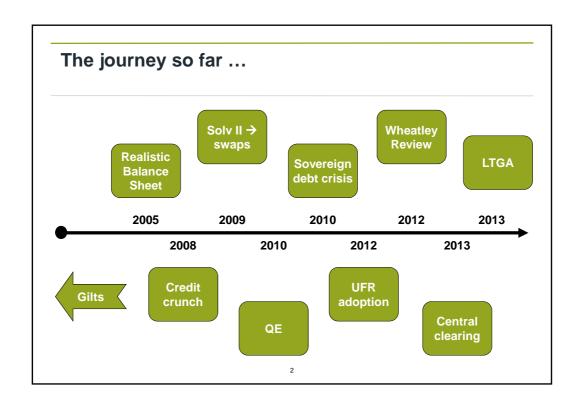
Our Changing Futures

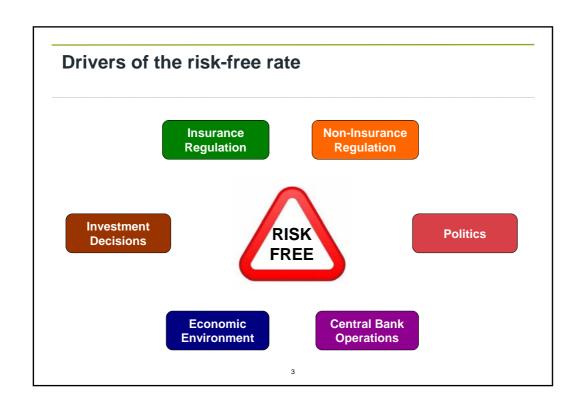
Bristol Actuarial Society

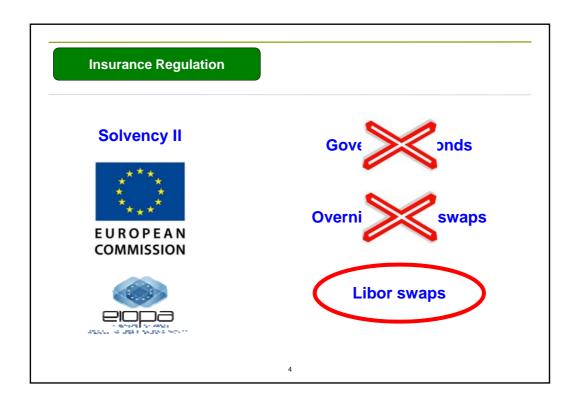
Yorkshire Actuarial Society

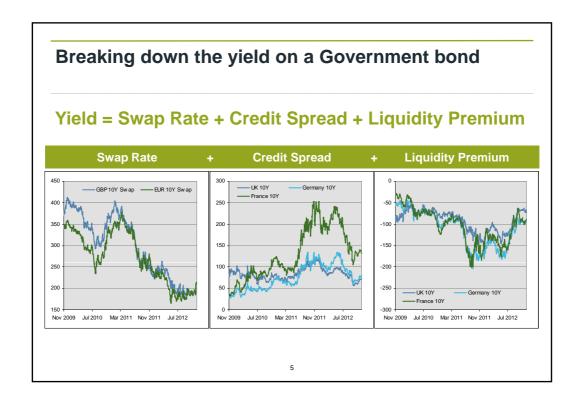
Life Conference 2012

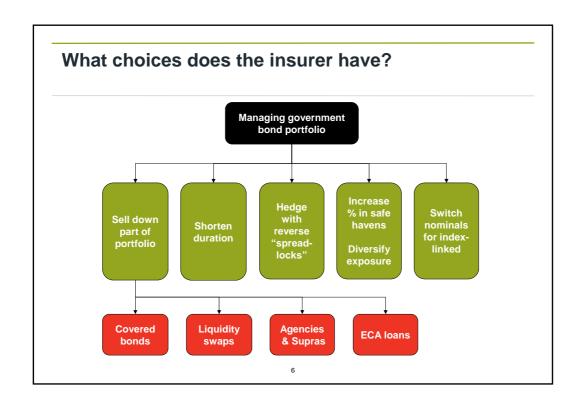
Actuary magazine – "Hedging your bets"

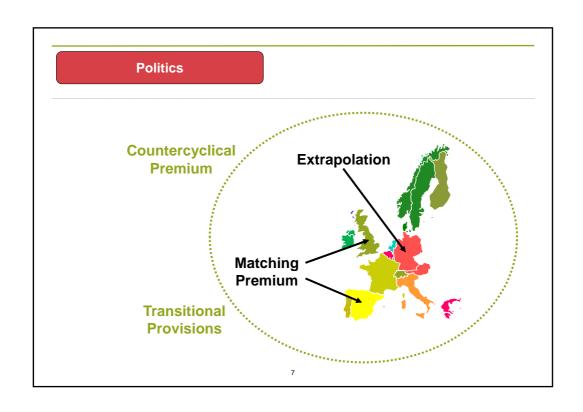


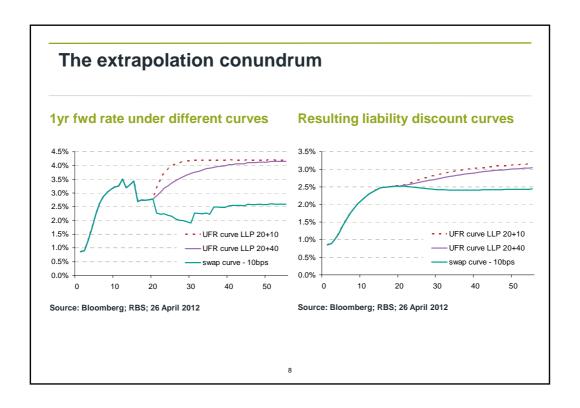






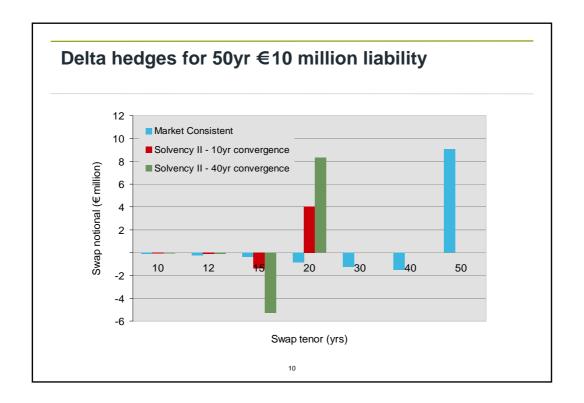






Solvency II to the rescue

	Market consistent	Solvency II	Solvency II
		20yr LLP 10yr convergence	20yr LLP 40yr convergence
Value of 50yr €10mn liability	€3.9 million	€2.1 million	€2.5 million
PV01 (as % of market consistent)	100%	24%	34%
Modified duration	50	22	27



Non-Insurance Regulation

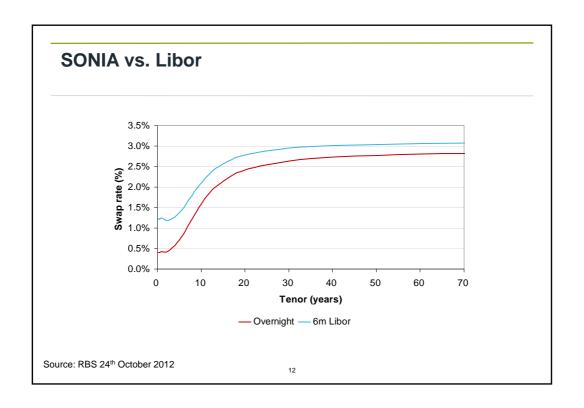
- Traditional method of swap valuation was to use the 6mth Libor swap curve
- Market moving to CSA discounting

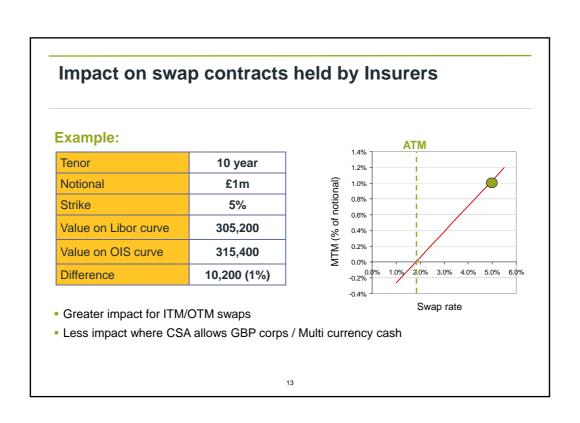
What does this mean?

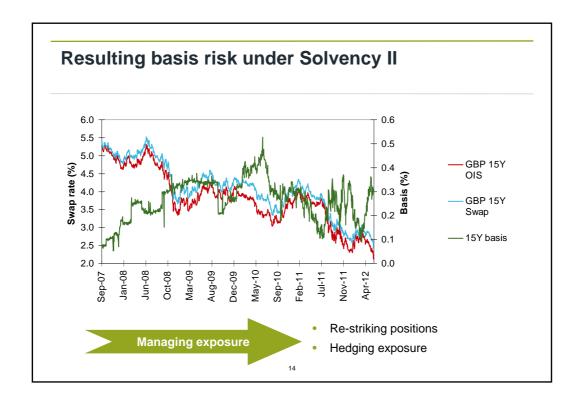
- Derivatives are valued based on the cost of posting collateral
- Normally based on overnight index swaps (OIS)
- Some CSAs allow wider collateral

Why?

- Libor previously regarded as bank funding rate no longer the case
- Collateral at heart of risk management
- LCH moved to OIS in July 2010







Regulatory developments in banking sector

The Wheatley Review of LIBOR:

final report

- "far reaching programme of reform"
- Focus on governance
- But alternative benchmarks remain under consideration

- Basel 3/CRD IV
 - Capital requirements UP
 - Liquidity requirements UP
- More recently
 - FSA has relaxed some of these requirements

