

AFH duties

- Current SUP 4.3.13 (paraphrased):
 - Advise the management on the capital needed to support the business
 - Monitor those risks that the insurer is exposed to with respect to meeting liabilities and holding enough capital, and inform the management if there are any material concerns
 - Need to be aware of the investment risks
- Solvency II Article 48:
 - "Coordinate calculation of technical provisions"
 - "Contribute to the effective implementation of the risk-management system...in particular with respect to the risk modelling underlying the calculation of the capital requirements"

 Investment governance is a key part of risk management

 - Capital role is unclear need to "contribute"



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Agenda

- Investment governance
- Matching Adjustment and Volatility Adjustment
- Investment issues under Solvency II capital calculations



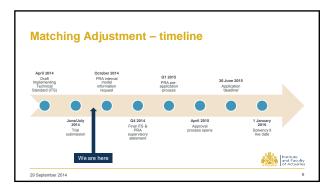
Agenda Investment governance Matching Adjustment and Volatility Adjustment Investment issues under Solvency II capital calculations

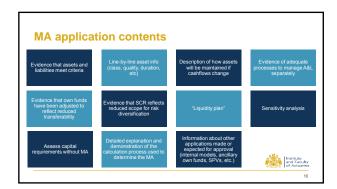
Features of a strong governance framework Clear risk appetite Clear responsibility and approval process MI to enable efficient monitoring and action when required When required

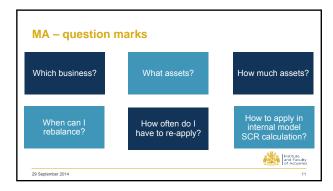
Questions that need to be answered satisfactorily Are your risk appetite and IMA consistent (and PPFM)? Is approval process quick enough? Is Board oversight maintained? Does IMA reflect wishes of management? E.g. Outperformance targets Does MI provide clear indicators of performance and risk measures?

Agenda Investment governance Matching Adjustment and Volatility Adjustment Investment issues under Solvency II capital calculations

Calculation of technical provisions Risk free rate given by EIOPA Adjustments under LTGA: Matching Adjustment Volatility Adjustment Transitional Measures 28 September 2014









Volatility adjustment Details yet to be finalised Reference portfolio' Very difficult to hedge Approval process looks likely HMT consultation PRA have six months to decide Fast-tracked if MA application fails? Called for by ABI Otherwise, have to wait (up to) another six month's

· Combine with transitional measures?

Agenda • Investment governance • Matching Adjustment and Volatility Adjustment • Investment issues under Solvency II capital calculations

Investment issues under SII capital calculations - Asset data - Increased level of detail - Assets to watch out for - Treatment of hedging contracts - Asset size to watch out for - Treatment of hedging contracts

Asset data under SII

- · "Look through" approach
 - Line-by-line data
- Asset valuation
 - Reliability
 - Trading/pricing frequency
- Mark-to-model issues
- · Credit ratings
 - Appropriateness of external rating
 - Unrated can be penal







Assets to watch out for

- Type II" equity shock
 Unlisted equities
 Non-EEA/OECD equities

 - Hedge funds
 - CommoditiesAlternatives
- Securitisations/re-securitisations
- SCR of 100% in some cases
- Currency mismatches
 Hedge significant positions
- · Zero capital for EU sovereigns

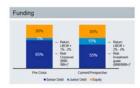
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Long term credit capital

Infrastructure Debt



- Spread risk SCR for a 20y duration, BBB rated bond = 30%
- Assuming a 10% CoC and a 25% diversification benefit, cost of holding capital = 225bps
- Can see that liquidity premium is wiped out



Hedging restrictions

- SCR may be reduced by taking into account any financial risk mitigation techniques (eg derivative strategies). The benefit allowed is the change in value of the derivative held under the SCR stresses

- the SCR stresses
 Hedging instruments have to be
 eligible for standard formulae

 Effective risk transfer to 3rd
 party
 Not materiab basis risk (see box)

 BBB minimum counterparty
 rating

 Can only get full benefit if maturity
 ty or part of a documented rolling
 program
 Undertakings should not reflect
 knowledge of their SCR shocks

us on basis risk



Summary

- Ensure correct investment governance in place
- MA/VA affect technical provisions
 - MA application is significant undertaking
 - Start thinking about impact and asset issues now
- Be mindful of asset-side issues in capital calculations
 - Additional data requirements
 - Strategy may need to change, especially under standard formula



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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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