

## Solvency II and risk appetite

- The Solvency II Directive says "insurance and reinsurance undertakings shall have in place an effective <u>risk management system</u> comprising strategies, processes and reporting procedures necessary to identify, measure, monitor, manage and report, on a continuous basis the risks, on an individual and aggregated level, to which they are or could be exposed, and their interdependencies".
- CEIOPS Final Advice (former CP33) calls for "A clearly defined and well documented <u>risk management strategy</u> that includes the risk management objectives, key risk management principles, general risk appetite and assignment of risk management responsibilities across all the activities of the undertaking and is consistent with the undertaking's overall business strategy;"

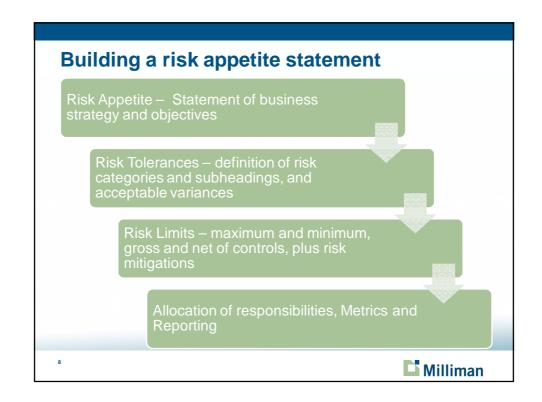
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### Central Bank of Ireland and risk appetite

- Central bank's Corporate Governance Code states
  - "The board is required to understand the risks to which the institution is exposed and shall establish a documented risk appetite for the institution."
- Requirements
  - Qualitative and Quantitative Metrics required (VaR, acceptable stress losses etc)
  - Assess short, medium and long term horizons
  - Regular reporting to the board on compliance
  - Annual review
  - Material deviation and proposed remedies reported to Central Bank within 5 days
- Compliance with the code must be ensured by 30<sup>th</sup> June 2011.

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# Risk Appetite – General Points Insurance companies in business to take risk - Which risks do they want to run? - Which risks do they want to minimise? - How much risk do they wish to take? Board responsible for defining risk appetite - Quantitative or Qualitative Quantitative Capital sufficient to absorb all losses over next year with 99.5% probability Qualitative Don't wish to take longevity risk

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Risk Category	Modelling Technique(s)
Enterprise /all risk categories	Dynamic Financial Analysis
Underwriting (including reinsurance)	Financial Condition Report (FCR) and/or underwriting modelling or reviews
Market	Value at risk (VAR) or Tail VAR Interest rate models Scenario tests
Credit	Credit risk models
Liquidity	Asset/Liability modelling
Operational	Internal loss data     External loss data     Scenario analysis, simulations



# **Setting Risk Appetite objectives**

- Involves consideration of various stakeholders (board, parent, policyholders, regulator)
- Objectives of stakeholders might conflict

Objective	Criteria
Adequate	Maintain regulatory requirements
capitalisation	Meet target economic requirements (Risk capital)
Stable profitability	Maintain earnings stability
and growth	• Limits on maximum losses in 1-in-200-year event
Sufficient	Maintain debt coverage ratio
liquidity	Continued ability to pay dividends
Sound	Avoidance of regulatory sanctions
reputation	Maintenance of high standards of corporate governance
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### Possible starting points in your company

- ■3 or 5 year business plan (medium term plan)
- Risk Register usually owned by risk management function
- Actuarial Financial Condition Report
- Economic Capital models often group-wide
- •Internal Audit assessment of risk based audit activities
- ■UK ICA style assessments e.g. "Pillar 2" assessments
- Solvency II (Risk Function and CRO)
- Any Board statements on "Strategic" Solvency Cover

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### **Summary**

- A Board approved Risk Appetite is required by 30 June
- Quantitative and Qualitative components
- ■Risk Appetite Risk Tolerance Risk Limit
- Ensure a Board reporting process is in place
- Identify risk controls, and action plans for remedies on a breach
- Need to have clear breach notification process

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### **Appendix - references and sources**

- Society of Actuaries in Ireland Constructing a Risk Appetite Framework: an Introduction (plus useful links in appendices)
- International Actuarial Association Note on Enterprise Risk Management for Capital and Solvency Purposes in the Insurance Industry (which refers to IAIS guidelines)
- Institute of Actuaries of Australia Risk Appetite: Practical Issues for the Global Financial Services Industry

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### **Appendix - Extract from Corporate Governance Code**

### 14.0 Risk Appetite

- 14.1 The board is required to understand the risks to which the institution is exposed and shall establish a documented risk appetite for the institution. The appetite shall be expressed in qualitative terms and also include quantitative metrics to allow tracking of performance and compliance with agreed strategy (e.g. Value at Risk, leverage ratio, range of tolerance for bad debts, acceptable stress losses, economic capital measures). It shall be subject to annual review by the board.
- 14.2 The risk appetite definition shall be comprehensive and clear to all stakeholders. The definition shall clearly define the appetite and address separately the short, medium and long term horizons.
- 14.3 The board shall ensure that the risk management framework and internal controls reflect the risk appetite and that there are adequate arrangements in place to ensure that there is regular reporting to the board on compliance with the risk appetite.
- 14.4 In the event of a material deviation from the defined risk appetite measure, the details of the deviation and of the appropriate action to remedy the deviation shall be communicated to the Central Bank by the board promptly in writing and no later than 5 business days of the Board becoming aware of the deviation.
- 14.5 The board shall satisfy itself that all key Control Functions such as internal audit, compliance and risk management are independent of business units, and have adequate resources and authority to operate effectively.
- 14.6 The board shall ensure that it receives timely, accurate and sufficiently detailed information from risk and Control Functions.
- 14.7 The board shall ensure that the institution's remuneration practices do not promote excessive risk taking. The board shall design and implement a remuneration policy to meet that objective and evaluate compliance with this policy.

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