Creating a Global Solvency Regime for Insurers
Modelling challenges & the role of actuaries

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Global trends affecting insurers

Globalization

- Increased globalization and concentration within the insurer and reinsurer marketplace ➔ emergence of global titans
- Financial sector convergence
- Systemic risks (e.g. prolonged downturn in interest yields; sharp and prolonged drop in equity values; flu epidemics; weather related losses etc.)

Trend outcomes:
- Greater recognition of the importance of financial system stability
- Greater role for international standards setters (e.g. IAIS, International Accounting Standards Board, International Actuarial Association etc.)
Global trends affecting insurers
Governance

- Various corporate failures and scandals (e.g. Enron, Allied Irish Banks, WorldCom, Credit Lyonnais, Bre-X, Barings Bank etc.)

- Insurance sector not immune (e.g. HIH in Australia, Equitable in UK, AIG etc)

- Outcomes:
  - Board reform
  - Risk management
  - Realistic assessment (valuation) of risks
  - Need for greater transparency
  - Need for improved disclosure of risks
Importance of risk management
Insurer stakeholder developments

  - Analyzing the full causal chain improves supervisory practice
  - Review of solvency needs to be broad and encompass governance and risk management
  - Further work to be done
    ‣ Risk management systems, internal control & people issues need further examination
    ‣ Solvency requirements and trigger levels need to be linked to a firm’s risk exposures
IAIS Cornerstones

- Cornerstone I: The solvency regime addresses the robustness of the insurer to meet its liabilities both short term and over a longer time span.

- Cornerstone II: The solvency regime is sensitive to risk, and is explicit as to which risks, individually and in combination, lead to a regulatory financial requirement and how they are reflected in the requirement.

- Cornerstone IV: The solvency regime requires a valuation methodology which makes optimal use of and is consistent with information provided by the financial markets and generally available data on insurance technical risks.

- Cornerstone VIII: The solvency regime allows a set of standardised and more advanced approaches to determine the solvency requirements, and includes the use of internal models if appropriate.
Modelling Challenges
Models must....

- Be used and understood throughout the insurer
- Be transparent to third parties
- Reflect company risks and risk management
- Be validated to insurer experience & calibrated to financial markets
- Use reliable experience studies for developing assumptions
- Be subject to suitable approvals, controls, internal audit and periodic independent review
Role of Actuaries

- Actuaries through their education, experience and professionalism are already actively involved in the modelling of risks (e.g. product pricing, liability valuation, investment management, risk management etc.).

- Within the insurance industry, actuaries are used by insurers, consultancies, supervisors and by insurance industry stakeholder groups.

- The Groupe Consultatif is the European voice of the actuarial profession
  - Current major focus is on Solvency II with CEIOPS

- IAA is the international voice and standard setter for the profession
  - “Towards a Global Framework for Solvency Assessment” © IAA 2004
  - International Actuarial Standards of Practice related to the financial reporting standards of the IASB
  - Risk Margin Working Party (ToR supplied by IAIS)
  - Internal model standards (in cooperation with the IAIS)
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Thank you! You can contact me at swason@compcorp.ca

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