

Casualty Loss Reserve Seminar Denver, Colorado September 6-7, 2011

Risk Metrics for Decision-Making and ORSA

A Collection of Essays from the CASA/SOA/CIA Joint Risk Management Section

Key Themes

Moderator- Robert F, Wolf, FCAS, CERA, ASA, MAAA

On behalf of the Joint Risk Management Council of the Casualty Actuarial Society, Society of Actuaries, Canadian Institute of Actuaries



Purpose of ORSA

Helps the NAIC in its initiative to bring US aligned with ICPs, which were developed by the IAIS

Shapella/Stein



Evolution of ERM

- Rick Gorvett talks about
 - Critical Point in its Evolution
 - Clear Guiding Principles
 - But Work needed in core concepts
 - Suggests an interdisciplinary perspective
 - Behavioral Economics
 - Complexity Science
 - Ingram's stuff



ORSA is and is not... (Shapella/Stein)

ORSA is

- A Process- Good ERM Practice
- Forward Looking
- Embedded in Decisionmaking
- Consistent with Business Culture
- Improve risk/capital management process
- Transparent Communication

ORSA is not

- just a regulatory mandate
- An RBC score (no ORSA score)
- Merely a quantitative exercise
- Requiring an economic capital model, although one can be used as a tool



Benefits of ORSA (Ren/Xie)

- Improves Risk Management-
 - not Compliance (Guttterman/Paton/Sen)
 - If Compliance, ORSA will Fail
- Aids regulators
- Policyholders- better prices
- Investor Confidence
- Rating Agency valuing Greater Transparency
- Employee/public confidence



A CONTRARIAN VIEWPOINT



In D'arcy's essay, he defines

- Actuary's Key Role
 - Quantifying the Uncertainty Surrounding the Future Financial Results of the Firm
 - Certification Performance tied to Accountable Professional Standards
 - Publicly Reported Information
 - Retrospective Evaluation of Individual Certifier



Innovative Concepts

- Effective Resiliency Factor (Gorvett)
 - Exposure to Reduced Operating Level due to adverse event
- Minimally Destructive Scenarios (Campbell)
 - What's the probability we can survive" to "This is what we won't survive. Are we comfortable with that?"



Recommendations from Essayists

- Focus- Prospective
 Assessment of Solvency
 Positions (Scanlon et el.)
 - Multiyear (Loisel)
- Multiple Metrics (Scanlon et el., Strommen)
- Balance Complexity with Simplicity (Scanlon et el.)
- Suggestion- "What-if" scenarios (Scanlon)

- Need Integration into existing Business Model as well as Tool for NAIC as well as Executive Suite (J.Sears)
- Focus (Rudolph)
 - Risk Concentration
 - Realistic Stress Testing
 - Top-Down Corporate
 Culture Assessment



Recommendations Continued

- Find the "ERM" Goal before developing an ERM System that fit's someone else's objectives (Ingram)
- Focus on Plausible Stress
 Scenarios (Cubukil, Ling)

- Consider the HumanElement
 - Management Behavior (Loisel)
 - Correlation through Experience (Loisel)
 - Moral Hazard (Loisel)
 - Behavioral Biases (Grossack)



Particulars

- Risk-Neutral vs. Real World capital calibration
 (D Wang)
- Use Cost Capital as risk metric in reserves, probability level as risk metric for capital (D.Wang)
- Understand strength/weaknesses and uncertainties inherent in models (Ericson/Cleary)



Thank You?