

Actuarial Function Working Party

- Established April 2013.
- Aim is to provide practical insights and suggestions around the requirements of Article 48 of the Solvency II directive.
- · Report to be published shortly.
- Views are those of members of the Working Party.
- EIOPA, PRA and IFoA views override ours (!)



21 April 2015

Question 1

- How prepared are you to meet the requirements of the Solvency II actuarial function?
 - 1. We have **not started** to prepare for the Solvency II actuarial function.
 - 2. We have made **some progress** in preparing for the Solvency II actuarial function.
 - 3. We have made **good progress** in preparing for the Solvency II actuarial function.



21 April 2015



Actuarial Function

Opinions

atise ship leadership and we sinds are ship of the shi

Directive, Article 48

Actuarial function

- 1. Insurance and reinsurance undertakings shall provide for an effective Actuarial Function to:
- (a) coordinate the calculation of technical provisions;
- (b) ensure the appropriateness of the methodologies and underlying models used as well as the assumptions made in the calculation of technical provisions:
- (c) assess the sufficiency and quality of the data used in the calculation of technical provisions;
- (d) compare best estimates against experience;
- (e) inform the administrative, management or supervisory body of the reliability and adequacy of the calculation of technical provisions;
- (f) oversee the calculation of technical provisions in the cases set out in Article 82 (Data quality and application of approximations, including case-by-case approaches, for technical provisions);
- (g) express an opinion on the overall underwriting policy;
- (h) express an opinion on the adequacy of reinsurance arrangements; and
- (i) contribute to the effective implementation of the risk-management system referred to in Article 44, in particular with respect to the risk modelling underlying the calculation of the capital requirements set out in Chapter VI, Sections 4 and 5, and to the assessment referred to in Article 45
- 2. The Actuarial Function shall be carried out by persons who have knowledge of actuarial and financial mathematics, commensurate with the nature, scale and complexity of the risks inherent in the business of the insurance or reinsurance undertaking, and who are able to demonstrate their relevant experience with applicable professional and other standards.



21 April 2015 5

What's an opinion?

Actuarial function

- 1. Insurance and reinsurance undertakings shall provide for an effective Actuarial Function to:
- (a) coordinate the calculation of technical provisions;
- (b) ensure the appropriateness of the methodologies and underlying models used as well as the assumptions made in the calculation of technical provisions;
- (c) assess the sufficiency and quality of the data used in the calculation of technical provisions;
- (d) compare best estimates against experience;
- (e) inform the administrative, management or supervisory body of the reliability and adequacy of the calculation of technical provisions;
- (f) oversee the calculation of technical provisions in the cases set out in Article 82 (Data quality and application of approximations, including case-by-case approaches, for technical provisions);
- (g) express an opinion on the overall underwriting policy;
- (h) express an opinion on the adequacy of reinsurance arrangements; and
- (i) contribute to the effective implementation of the risk-management system referred to in Article 44, in particular with respect to the risk modelling underlying the calculation of the capital requirements set out in Chapter VI, Sections 4 and 5, and to the assessment referred to in Article 45.
- 2. The Actuarial Function shall be carried out by persons who have knowledge of actuarial and financial mathematics, commensurate with the nature, scale and complexity of the risks inherent in the business of the insurance or reinsurance undertaking, and who are able to demonstrate their relevant experience with applicable professional and other standards.



21 April 2015 6

What's an opinion?





21 April 2015

What's an opinion?

- Actuarial Function should contribute its knowledge and experience to the sound running of the Insurer.
- An opinion not a formal 'signing-off' of the underwriting policy or reinsurance arrangements.
 - Like a Statement of Actuarial Opinion? No.
 - A view from applying the actuarial skillset? Yes.
- Actuarial may already provide such a contribution, Solvency II will formalise this.



21 April 2015 8

What's an opinion?

- Actuarial Function and underwriting and reinsurance teams should work together.
- A close working relationship would be essential.
- Actuarial Function should not act as a policeman to the underwriting and reinsurance teams.
- Documentation will be essential in demonstrating its compliance.



21 April 2015 9

Question 2

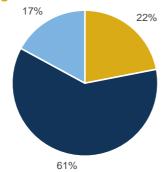
- With regards to the requirement for the Solvency II actuarial function to provide an opinion on your organisation's reinsurance / risk transfer arrangements?
 - 1. I'm familiar with the requirements of the Solvency II directive and delegated acts, and am **clear** on how to meet them.
 - 2. I'm familiar with the requirements of the Solvency II directive and delegated acts, but am **unsure** on how to meet them.
 - 3. What requirements?



21 April 2015 10

Question 2

With regards to the requirement for the Solvency II actuarial function to provide an opinion on your organisation's reinsurance / risk transfer arrangements?



- I'm familiar with the requirements of the Solvency II directive and delegated acts, and am clear on how to meet them.
- I'm familiar with the requirements of the Solvency II directive and delegated acts, but am unsure on how to meet them.
- What requirements?



21 April 2015



Actuarial Function

Independence & Objectivity

artise still leadership and meetings are still be still b

Independence & Objectivity

- PRA expects the actuarial function:
 - "to be **independent** of an insurer's revenue-generating functions".
 - "possess sufficient authority to offer robust challenge to the business."
 - To be "operationally independent ...commensurate with the nature, scale and complexity of the risks inherent in the firm's business"



13 21 April 2015

Independence & Objectivity: How to achieve it & be seen to be achieving it!

Actuarial department staff have two hats and always know which one they are wearing for a particular task

"I am not afraid to critique the

"Obviously we wouldn't review our

own work."

work of a colleague."

"I don't let the fact that my bonus is linked to performance metrics affect my judgement."

function (like an

"I spend a lot of time with the business to keep up to date with things."

"The Board and Senior Management know I'm just as highly trained and experienced as the business actuaries."

"The AF is seen as a business enabler not a compliance burden."



21 April 2015 14

Independence & Objectivity: How to achieve it & be seen to be achieving it!



- Segregation of responsibilities (to the degree that it is practical).
- · Reporting lines designed to minimise conflicts of interest.
- · Gatekeeping of inputs, models and outputs.
- · Peer review regimes.
- Clear policies for expert judgement and governance review of material decisions.
- · Robust documentation.



21 April 2015



Actuarial Function

Actuarial Function Report

atise stip leadership and Meetings are sind the future strong lies and is death of the fitting and its and society and its and society and the fitting and society and soc

Actuarial Function Report

- Delegated Acts:
 - "The actuarial function shall produce a written report to be submitted to the administrative, management or supervisory body, at least annually. The report shall document all tasks that have been undertaken by the actuarial function and their results, and shall clearly identify any deficiencies and give recommendations as to how such deficiencies should be remedied"



21 April 2015 17

Actuarial Function Report

- Purpose of Actuarial Function Report:
 - To enable informed decisions to be made on the administration of the insurer, based on reasoned analysis, evidence and justification; and
 - To demonstrate compliance with the requirements of the Directive.
- · Should be produced "at least annually".



21 April 2015

Actuarial Function Report

- Structure:
 - Could build an aggregate report made up of multiple component reports.
 - May decide to produce multiple component reports throughout the year, covering the various tasks.
 - May be necessary to have an over-arching component report referencing all the constituents of the aggregate report and outstanding requirements, e.g. a Terms of Reference or TAS-R compliance.
 - Danger of disjointed report from this approach.



21 April 2015

Actuarial Function Report

- Possible content:
 - Executive Summary;
 - Introduction;
 - Technical Provisions;
 - Underwriting;
 - Reinsurance:
 - Risk Management;
 - Conclusions and recommendations.



21 April 2015 20

Question 3

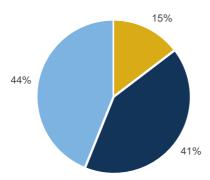
- Have you produced an actuarial function report yet (to the standards required by the Solvency II guidance)?
 - 1. I've **produced** what I believe is a fully Solvency II compliant report.
 - 2. I've made **some progress** to producing what I believe is a fully compliant report.
 - 3. I've made **no significant progress** in producing what I believe would be a fully compliant report.



21 April 2015 21

Question 3

Have you produced an actuarial function report yet (to the standards required by the Solvency II guidance)?



- I've produced what I believe is a fully Solvency II compliant report.
- I've made some progress to producing what I believe is a fully compliant report.
- I've made no significant progress in producing what I believe would be a fully compliant report



21 April 2015 22



Actuarial Function

Regulation

atise stiple adership and a priparity of the second and the stiple of the second and the second

Regulation

- Sources of Solvency II regulation:
 - Europe
 - PRA
 - IFoA



21 April 2015 24



Actuarial Function

Organisation & Structure

artise ship leadership and like shinds are shaping the fithing signal support is and restricted to the ship of the signal society and his support is a support of the signal society and his support is a support of the signal society and his support is a support of the signal society and his support is a support of the signal society and his support is a support of the signal society and his support is a support of the signal support in the support is a support in the support in the support in the support is a support in the support

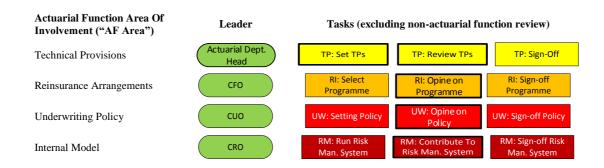
Organisation & Structure

- Key requirements:
 - Meeting the requirements of the regulations and other guidance.
 - Addressing issues of Independence and objectivity.
 - Deciding on a "Chief Actuary" for the PRA.
 - Availability of suitably qualified and experienced (fit & proper) resource.
- Other requirements:
 - Non-Solvency II requirements; What is already being done?; Reflecting the organisation's complexity; Departmental interactions; Outsourcing, etc....



21 April 2015 26

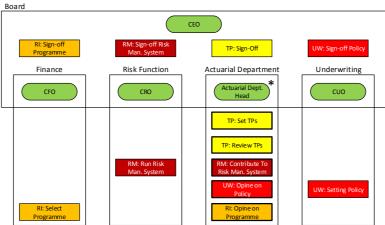
Organisation & Structure





21 April 2015 27

Organisation & Structure - Example 1

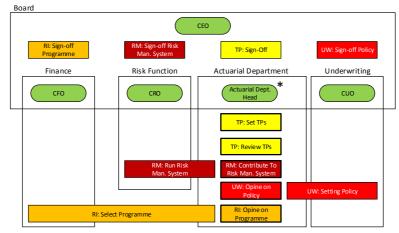


- · Arranged around requirements of Article 48.
- Strength: separation of the performing and the actuarial reviewing of the underwriting policy and reinsurance arrangements AF Areas.
- Weakness: Potential splitting of actuarial resources.



21 April 2015 28

Organisation & Structure - Example 2

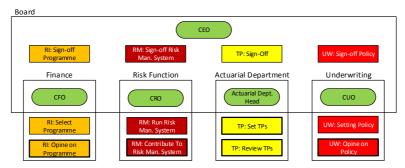


- All actuarial tasks contributed to by actuarial department (not just Article 48 tasks).
- Strength: Efficient use of actuarial staff, all under one department head.
- Weakness: Lack of independence of performing and reviewing.



21 April 2015 29

Organisation & Structure - Example 3

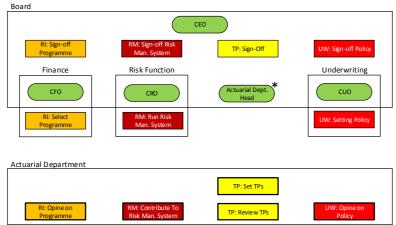


- Actuarial department and its head are only responsible for the technical provisions AF Area.
- The actuarial contributions to the other three AF Areas are the responsibility of the lead in the relevant department.
- Strength: Responsibility for each of the four AF Area tasks resides in the department with most general experience and skills for that task.
- Weakness: Actuarial Function is dispersed between four areas of the business with four different leaders.



21 April 2015 30

Organisation & Structure - Example 4



- · Whole actuarial department is outsourced.
- Strength: Potentially more cost effective for smaller Insurers who don't want to have their own actuarial departments.
- Weakness: Potentially less understanding and interaction between the Insurer and the outsourced actuarial department.



21 April 2015 31



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.



21 April 2015 32