## Insurance Regulation of General Insurance Companies

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### Ministry of Treasury Insurance and Surety National Commission

# Role of the Actuary in prudential supervision

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- Regulation and supervision trends
- The use of actuaries as part of the supervisory model
- Perspectives and final remarks



# Regulation and supervision trends

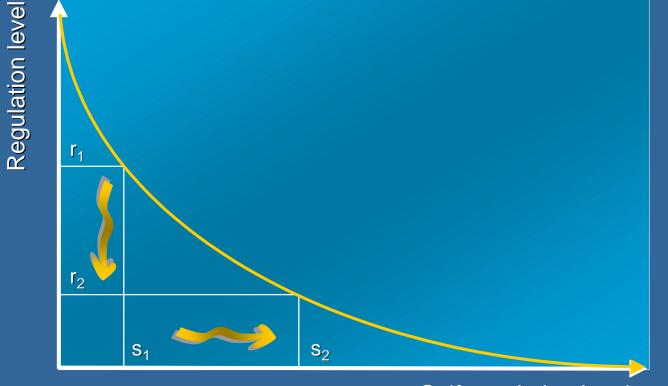


### Introduction

- The role of the actuary, both within the insurance companies and in the supervisory body, is of great relevance to the maintenance of financially sound insurance companies.
- However, the role and degree of responsibility of the actuary in a particular jurisdiction depends on:
  - The regulatory and supervisory traditions,
  - The maturity level of the insurance market,
  - The development of the actuarial profession, and
  - The level of organization of the actuarial profession.



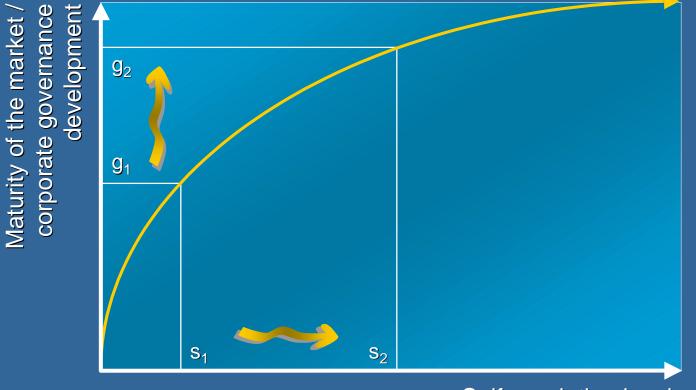
### Regulation and supervision: trends (1)



Self-regulation level



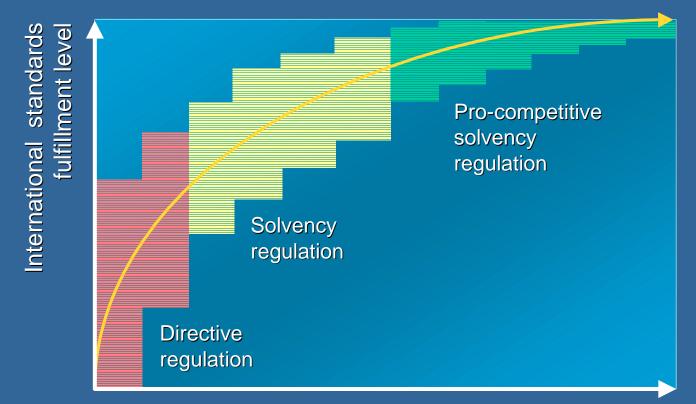
## Regulation and supervision: trends (2)



Self-regulation level



### Regulation and supervision: trends (3)



Support on third parties and corporate governance



### The role of the actuaries

At one end of the regulatory spectrum are those supervisory models that emphasizes the importance of direct supervisory overview. This supervision is exercised through a strong control over all insurance activities.

On the other hand, are those supervisory models that gives more freedom to the insurance activities, and utilize a responsible actuary model.

#### **Directive Regulation**

Pro-competitive Solvency Regulation



## Solvency regulation pro-competitive (1)

### Supervisory Body

Independent Third Parties

Companies' Board of Directors



# Solvency regulation pro-competitive (2)

### Surpervisory Body

- Fulfillment of the international regulation and supervision standards
- Reinforcement of the internal supervision capacity
- Modernization of procedures

# Solvency regulation pro-competitive (3)

- Modernization and improvement of the rules that guide the performance of:
  - Financial external auditors
  - Actuarial external auditors and independent actuaries

Independent Third Parties

# Solvency regulation pro-competitive (4)

- Reinforcement of the corporate governance:
  - Precision concerning the responsibilities of the Board
  - Independent members of the Board
- Introduction of the Compliance Officer to assist in the compliance of internal and external regulation
- Use of the responsible actuary model.

Companies' Board of Directors

# Solvency regulation pro-competitive (5)

Deregulated insurance markets place additional demands on the actuarial profession:

- The actuary plays a role in ensuring that required principles concerning rating and reserving were observed when calculating the premiums and technical provisions.
- The actuary may be required to prepare reports and provide an opinion on:
  - Asset and liability matching,
  - The adequacy of reinsurance arrangements,
  - The accuracy of projections and forecast used for new products, and
  - The general financial conditions of the insurance company.



# Solvency regulation pro-competitive (6)

Deregulated insurance markets place additional demands on the actuarial profession:

- The actuary must provide details about the required assets to cover the solvency margin.
- The actuary plays a key role in the identification of risks and its successful management, using stochastic modeling, Value at Risk and Stress Testing.

 The actuary is also required to submit a report of the financial position and future financial condition of the company using Dynamic Solvency Models like Dynamic Capital Adequacy Testing and Dynamic Financial Analysis.

# Solvency regulation pro-competitive (7)

In addition, deregulated insurance markets require:

- high levels of actuarial education and professionalism, and
- the active support and involvement of professional associations of actuaries in each country:
  - Standard setting and implementation
  - Continuous educational programs



# The use of actuaries as part of the supervisory model



### Issues to be considered

- The relationship between external auditors and actuaries, both within the insurance companies and in the supervisory body.
- The appropriate and feasible to introduce the use of a "responsible actuary" in a particular jurisdiction.
- The maturity level of the insurance market.
- The development of the actuarial profession in the jurisdiction.

### Issues to be considered Relation between external auditors and actuaries (1)

Directive Regulation Pro-competitive Regulation



### Issues to be considered Relation between external auditors and actuaries (2)



#### Responsibility on solvency technical issues

Supervisory body's	Insurance
actuary	company's
	actuary

### Issues to be considered Relation between external auditors and actuaries (3)

Directive Regulation	Pro-competitive Regulation

#### Responsibility on solvency technical issues

Supervisory	Insurance company's	Actuarial
body's	actuary	external
actuary		auditor

### Issues to be considered The use of a "responsible actuary" (1)

- Some supervisors consider that the use of a "responsible actuary" system would lessen the powers of supervisors.
- However there are others, that use a "responsible actuary" as a part of a supervisory model.
- The "responsible actuary" has individual official responsibilities, or a defined role in the insurance laws.
- Supervisors rely to different degrees on the work of the company's actuaries; however, it is very important to define their task and responsibilities.
- Finally, the decision of the use of a "responsible actuary" model should give consideration in preserving an effective supervisory scheme.



### Issues to be considered The maturity level of the insurance market

- In the jurisdictions with a mature insurance market (usually with a great number of insurance companies), there is a tendency for the supervisor to make formal use of actuaries as part of the supervisory model.
- The actuaries must be adequately qualified to carry out the role.



### Issues to be considered The development of the actuarial profession

- The development of the actuarial profession is very important in taking the decision to adopt the use of a "responsible actuary" model.
- The decision should take into account the extent to which the profession is well organized:
  - The use of prudent actuarial valuation standards and practices.
  - The existence of a code of professional conduct.

## Perspectives and final remarks



### Perspectives

- The role of the actuary is progressing steadily away from traditional evaluation of liabilities to the monitoring of the adequacy of assets to meet the liabilities on a continuous and dynamic basis.
- This implies a strong forward-looking role as a direct report to the Board of Directors on future financial conditions, thus playing a key role in the identification of risk and its successful management.

### Perspectives

- The use of a responsible actuary in life insurance is very common in many jurisdictions, however the use of an actuary for non-life insurance is less widespread.
- With respect to non-life insurance, some jurisdictions require the actuary to provide advice on:
  - the premiums to be charged,
  - the terms and conditions of policies,
  - the risk assessment policies, and
  - the adequacy of reinsurance arrangements.



### Perspectives

- There is a move towards the increased use of actuaries in non-life insurance.
- This will require greater professional development, experience and expertise in this growing area.
- The activities carried out by the actuaries, as well as the insurance companies and all those individuals attached to the market working as supervisors or consultants, will have to be based on homogenous and internationally accepted standards.

## Final remarks

- Finally, it is important to stress that where the use of a responsible actuary model is adopted, the supervisor should not simply accept the work of the actuary without further scrutiny.
- The supervisor has an important role in assessing the prudential standards:
  - Having the authority to replace the actuary.
  - Being able to engage an independent actuary to conduct a review of the responsible actuary's work.
  - Having the authority to provide directions regarding the actuarial valuation practices, etc.



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