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Opportunity in Insurance areas

Puneet Sudan, FIAI (Founder, Paramount Consultants)
Saigeeta Bhargava, FIA (Lead & Associate Director, PwC)



Insurance



• **Insurance** is a contract of *indemnity*, represented by a policy, in which an individual or entity receives financial protection or reimbursement against losses from an **insurance** company.

Common terms used in Insurance





Types of Insurance



- Life Insurance: As the name suggests, life insurance covers your life. It is an insurance contract, which covers the life-risk of the person insured.
- General insurance: It covers non-life assets - such as your home, vehicle, health, travel – from floods, fire, thefts, accidents and man-made disasters.

Types of Insurance



• Health Insurance: A

Health Insurance policy reimburses the insured for medical and surgical expenses arising from an illness/injury that leads to hospitalization.

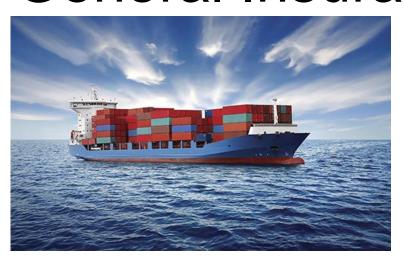




General Insurance

Major Products in General Insurance











What's Covered in

Policy?

















Key Areas in GI



• Pricing & Modelling:

 Pricing is a key driver of property and casualty (P&C) insurance profitability and hence a primary actuarial responsibility.

Reserving

 Actuaries apply statistical techniques to assess the likely outcome of general insurance liabilities and the provisions that are needed for reporting purposes Why different companies charge different rates for same coverage?



Key Areas in GI



Capital Modelling

 actuaries projects both the liability and assets of insurers to assess solvency and future capital needs.

UW & Portfolio optimisation

 actuaries work with the Underwriters to assess the profitability of the portfolio and optimize it to maximize the profits.



Key Areas in GI



Reinsurance optimisation

- An Insurance company makes decision regarding the reinsurance strategy based on its risk appetite.
- The key decisions to make include:
 - What to buy?
 - How much to buy?
 - Associated costs and Benefits.

Emerging Opportunities



- New Tech driven products
 - Usage based Insurance- Giving more scope for IoT, Analytics and Data science professionals.
- Travel product –
- Insurance Analytics
 - Consumer Behaviour
 - Fraud Detection
 - Customer Scoring



Life Insurance and Pension

Products of Life Insurance



Need ????

Financial
Issues on
Death/
Retirement



Term Assurance Endowment Assurance

Whole Life Assurance

Annuity

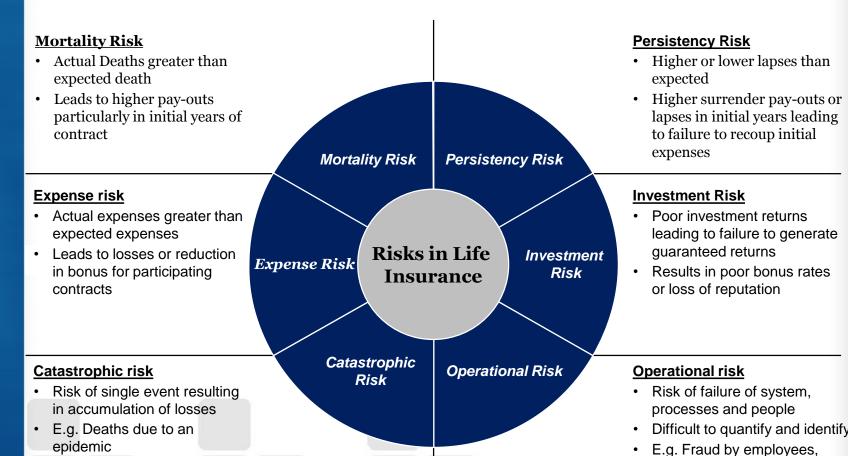
Unit Linked

Risks in Life Insurance



Life insurance business exposes a company to various micro and macro risks.

Institute of Actuaries of India
The objective of a company is to effectively manage these varied risks and generate growth opportunities by exploring these risk

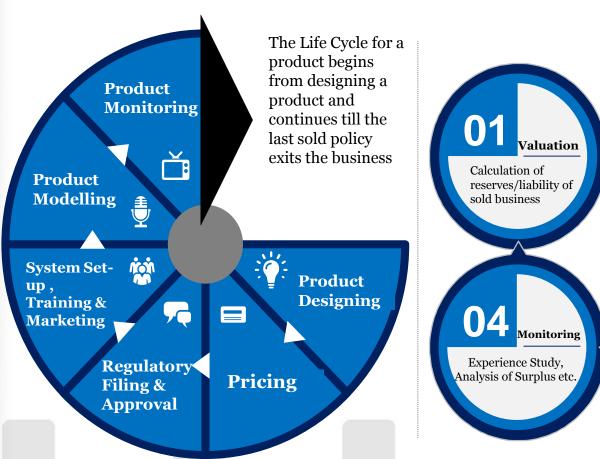


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power failure etc.

Insurance - Key Areas







Reporting



Regulatory

- Annual/Quarterly reports
- Accounting IFRS 17, IGAAP

Shareholder

- Embedded Value
- Asset Liability Management
- Management Reports

Embedded Value

- Present value of future profit from the existing business plus the shareholder's current net worth
- Key Indicator of company's growth and profitability

Regulatory Reports

- Details relating to new business and existing business
- Details of statutory reserves/liabilities
- Solvency details

IFRS 17

- New global accounting standard for insurance and reinsurance contracts
- Introduces comparability and transparency of insurance financial statements
- Compliance to IFRS 17 is will require actuaries in a large numbers

Consultancy - Areas of Work



Consultancies offers you a platform to work on multiple actuarial opportunities and geographies.

They are the initiators of the new trends, developments, tools/models and regulations in the market.

One gets to work in nonconventional markets like banking, investments, regulators, government initiatives, central bank/ world bank initiatives etc.

Modelling

- Development
- Validation
- Governance

Audit

- Review of statutory liability, regulatory reports, embedded value etc.
- Peer review of actuarial work

Business Analysis

 Due Diligence for transactions including EV calculations and review

New Regulations

- Development & Implementation (Regulator)
- Training & Compliance (Insurer)

Core Areas

- ReportingProduct Do
- Product Development and Pricing
- Investment strategy
- Monitoring

Others

- Data Transformation
- ERM
- Assist new insurer/reinsurer
- Formulating policy

Pension – Risk & Areas of Work



Pension benefits are the backbone of an ageing population and a major area of concern for most of the developed nations with an ageing population. Pension benefits may be provided by the State, the company or self-sponsored by an individual. The financial significance and the risk involved with these benefits make it a key areas for actuaries

Risk

The Key Risk Includes:

- Poor investment returns
- Increased longevity or death in service pay-outs
- Expenses higher than anticipated

Areas of Work

The major areas of work for actuaries include:

- Designing of pension plan/schemes
- Calculation of pension liabilities
- Regulatory Reporting e.g. IAS 19
- Asset-Liability Management

What Actuaries Do?



Business professional

who identifies the risks inherent in a **business**

Analyze data to estimate likely cost to the company of an event such as death, sickness, injury, or loss of

property.

Use mathematics, statistics, and financial theory to determine the probability of risks and their financial consequences.

Address financial matters, such as how a company should invest to maximize return on investments

Ensure compliance to various regulatory and shareholder reporting requirement

Design insurance policies, pension plans, and other financial strategies.

Focus points for students to enter in the industry



The focus of every recruiter is to hire the resources which showcase good analytical, technical, software and communication skills.

Students can focus on:

- Actuarial Exams
- Programming software used in the industry like R, SAS, VBA, Python, MS Excel
- Sasic knowledge about insurance industry and the challenges of the industry

Insurance Companies





























Consultancies





















Questions?





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