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Agenda

Basic Insurance Concepts

Key Insurance Processes

Financial Analysis of an Insurance Company



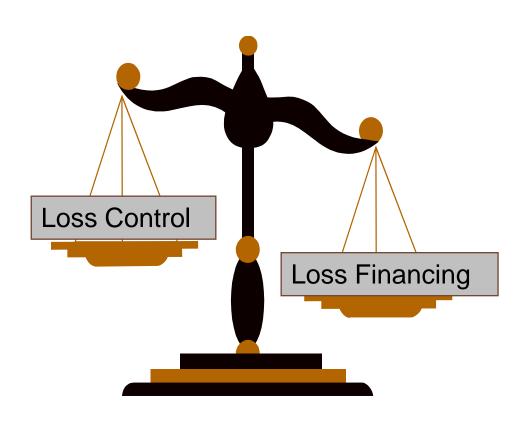
Basic Insurance Concepts Why do we need Insurance?

- ▶ Risk of Financial Loss or Hardship
 - Damage to property
 - Damages or money you become "legally obligated to pay"
 - Loss of income



Basic Insurance Concepts

There are two ways to handle risk.





Loss control serves to reduce the chance or magnitude of a loss.

Loss Prevention

Measures taken to decrease the probability of loss

Loss Reduction

Measures aimed at reducing the <u>severity</u> of a loss

- Don't build house on fault line
- Don't drive in bad weather

- Install automatic sprinklers in case of fire
- Buy a car with airbags and antilock brakes



Basic Insurance Concepts Losses can be financed in several ways.

Retain the risk

- Planned retention/ self insurance
 - Risk is identified
 - May set aside money specifically to pay for losses if they occur
- Unplanned retention
 - Risk not identified
 - No money is set aside
 - ▶ Burden if loss occurs

Transfer the risk

- Non Insurance Transfers
 - Transfer risks through contracts (e.g. rental leases)
- Insurance
 - Transfer risk through insurance contract



We need insurance to reduce uncertainty and to finance our losses.

Insurance

As a Mechanism:

- Insurance company agrees to accept risk by "pooling" or combining many similar exposures
- ▶ All people in the pool must contribute to the fund
- Insurance indemnifies the pool members for their losses

As a Product:

A promise to pay in the event of a loss



The insurance market is divided into two main segments.

Property & Casualty

Property:

Protects insured from financial loss due to damage of physical property from perils such as fire, lightening & wind

Casualty:

Protects insured from financial loss due to liability or other legally owed funds

<u>Life:</u>

Provides income for the survivors of an insured when he/she dies or to provide funds needed for the future.

Health:

Policies that pay benefits such dismemberment; disability income; basic and major medical expense.

Life & Health

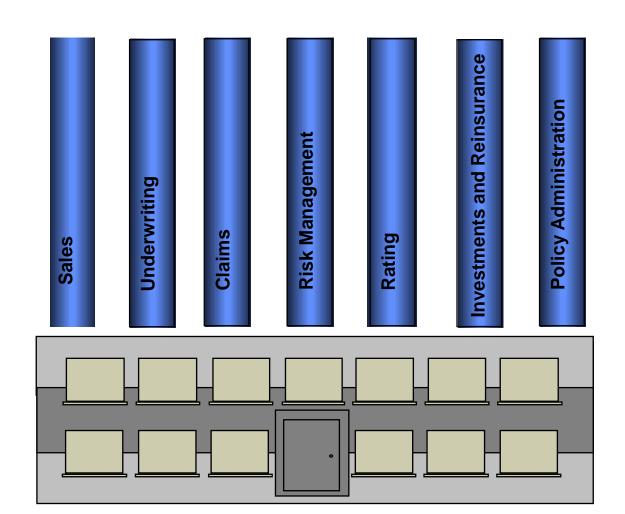


The ownership structure in insurance companies varies.

Types of Insurance Organizations					
	▶ Owned by shareholders				
Stock Insurers	▶ Allstate				
	▶ SAFECO				
	Owned by policyholders				
Mutual Insurers	▶ State Farm				
	▶ Pacific Mutual				
Reciprocal Exchanges	 Owned by policyholders administered by an attorney in fact (management organization) 				
	▶ Farmers				
	► CSAA				
	USAA				

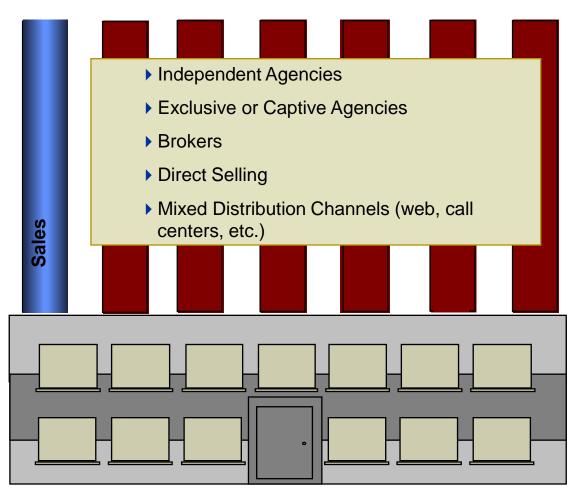


An insurance organization typically has seven major functional areas.



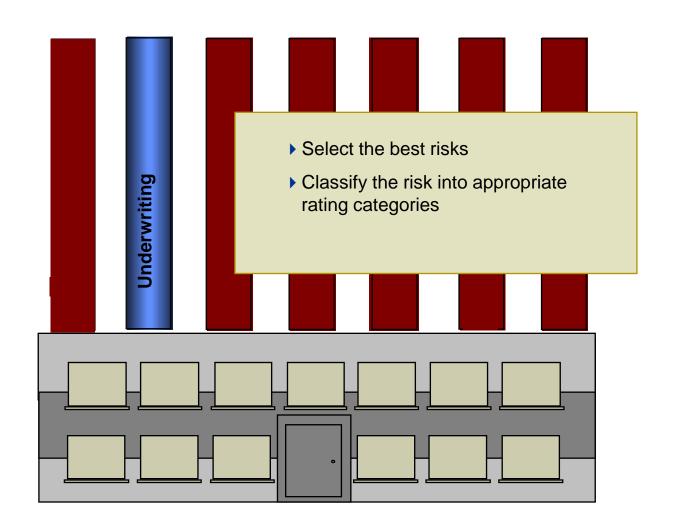


Sales generates revenue for the insurance company through various distribution channels by offering various insurance products to customers.



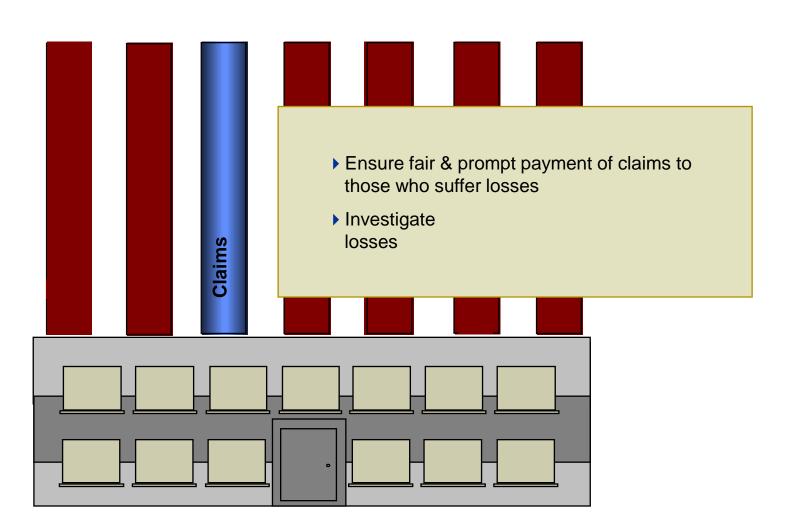


Underwriting is the selection & classification of the insured.



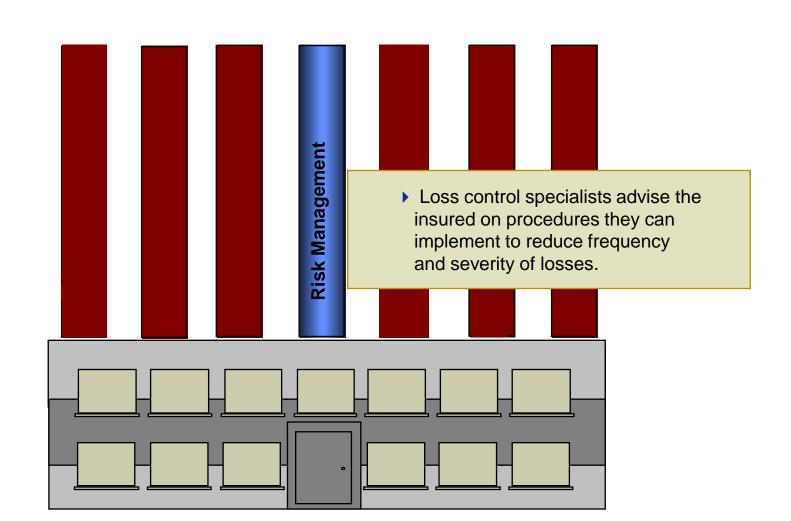


Claims ensures that the insurance company fulfills its contractual promise to provide protection.



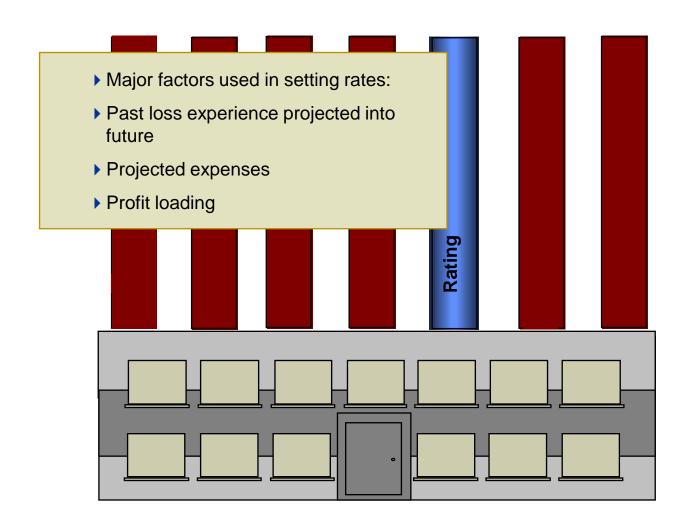


Risk management is responsible for loss control.



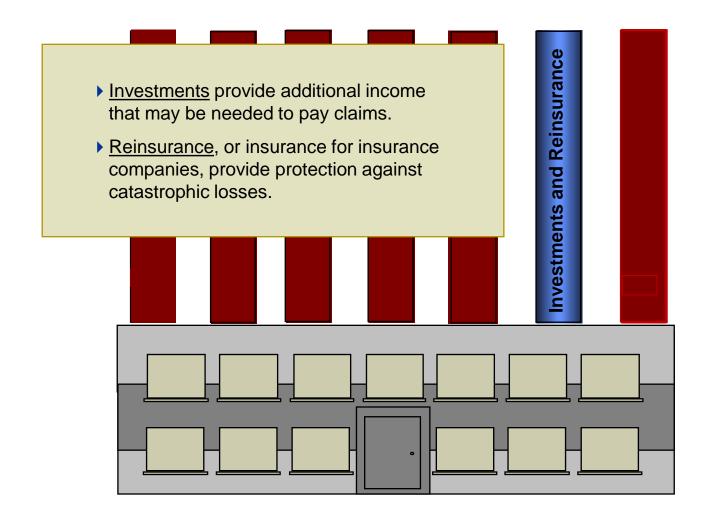


Rating determines rates based on past loss experience <u>and</u> projected expenses.



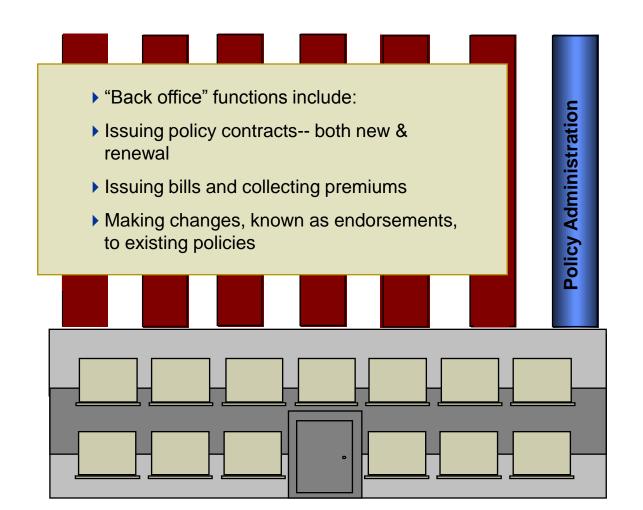


The investment and reinsurance functions help ensure the financial stability of an insurance company.





Policy administration handles the "back office" functions.





Insurance is a highly regulated industry to protect consumers.

Reasons:

- Insurer solvency
- Affordable rates
- Availability of insurance
- Complex contracts
- Prevention of abuses within industry

Who Regulates?

- Individual State Governments
- Federal Government

Implications:

- Restricted underwriting policies
- Controlled pricing changes
- Restricted freedom of investments
- Dictated coverage



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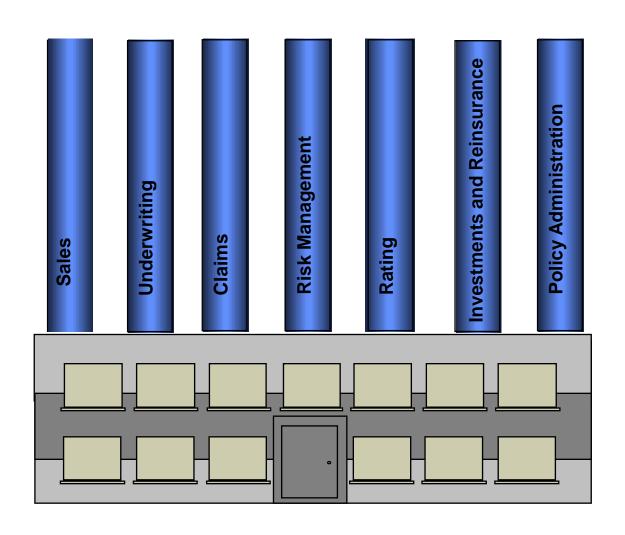
Basic Insurance Concepts

Key Insurance Processes

Financial Analysis of an Insurance Company

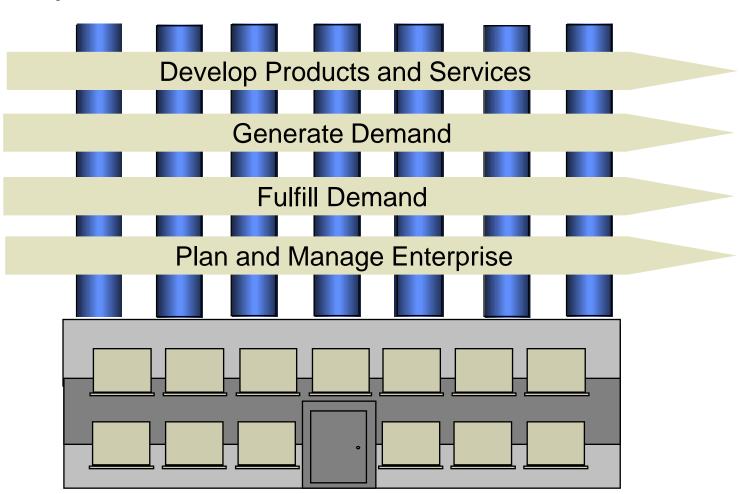


Traditionally, insurance companies organize by functional areas.





Within the insurance company, however, several core processes occur that focus primarily on the customer.





Key Insurance ProcessesThe process for Developing Product and Services is as follows:

Define Product Identify New Conduct Obtain Create **Determine** Offer Product **Characteristics Product Offering** Marketing Regulatory Marketing **Capabilities** to Market (coverage, rating, Research **Approval Materials** Need etc.)

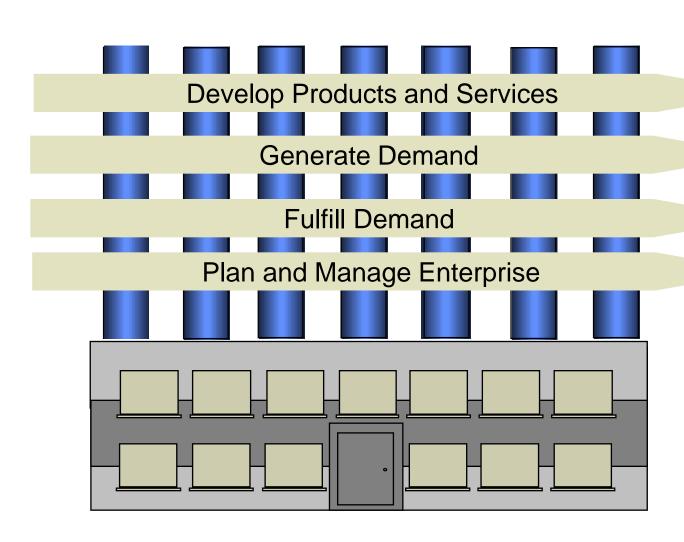
- Determine need for new product
- Determine market opportunity
- Determine risk opportunity
- Determine if risk is aligned with Insurance
 Company's risk appetite/strategy
- Determine if Insurance Company has capabilities to efficiently manage this risk
- Determine if insurance company has the experience to effectively understand the type of risk

- Define Product Characteristics
- **LOB**
- Coverage
- Rating
- Commission strategy for agents
- Etc.

- Create and submit regulatory approval documentation
- Create
 marketing and
 sales materials
 to support
 product
 development
 launch
- Create internal communication s materials for agents

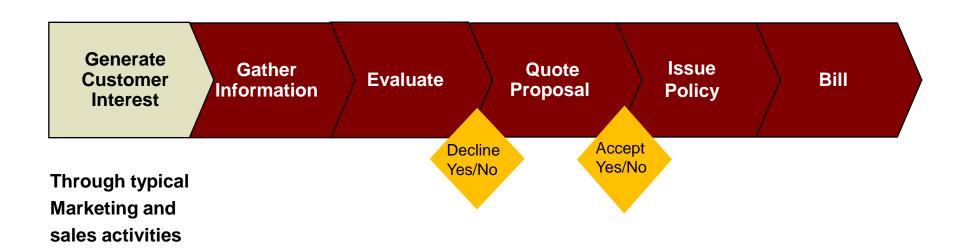
Launch Product





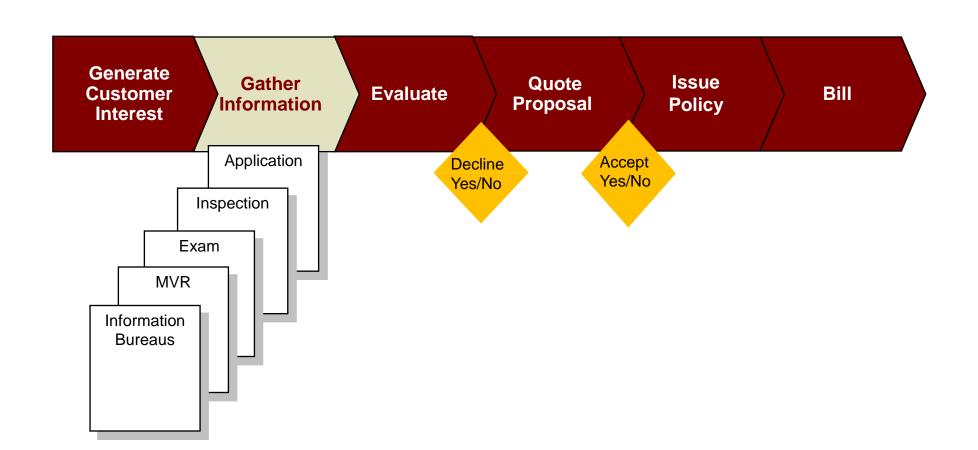


The processes for Generating and Fulfilling Demand is as follows:



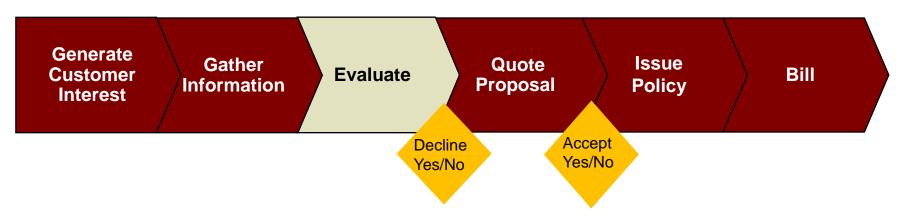


The second step is to gather information pertinent to rating and evaluation of the risk.





Once the initial information is gathered, the underwriter proceeds to evaluate the risk.

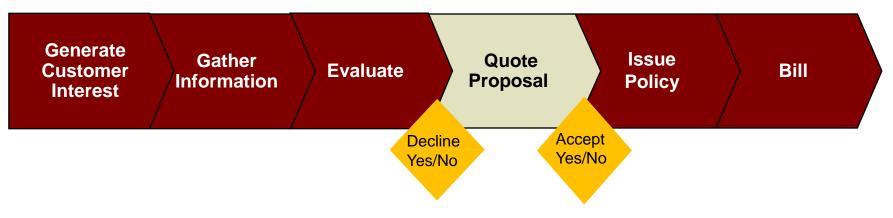


Will the risk be profitable?

- Better than the average loss experience
- Appropriate rates available for exposures



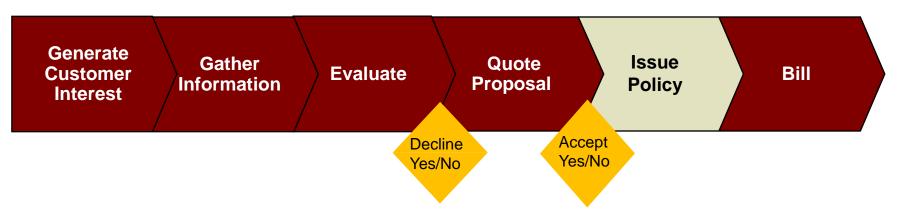
If the risk is acceptable, the underwriter prepares a quote.



Quote and propose the price of the policy



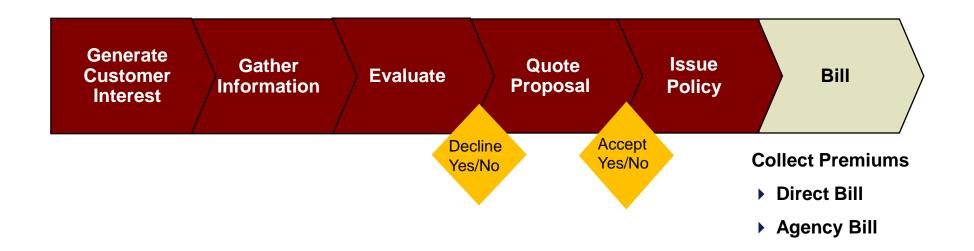
Once the customer accepts the quote, the policy is issued.



Send insurance contract to policyholder/ customer



The last step in the process is to issue a bill for the premium due.





The claims process represents the delivery of the insurance product -- the promise to pay.







The first step after receiving notice of a claim is to verify coverage.



- Make sure the loss is covered
- Set initial reserves



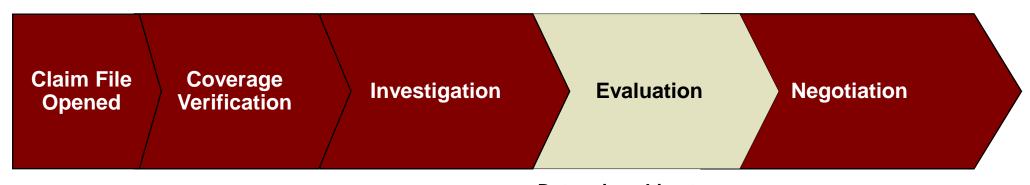
The details of the claim must be grouped and investigated.



Discover and describe the details of an event



The information gathered in investigation is evaluated.



Determine ultimate worth of a claim



An offer is made based on the results of the evaluation (which then may be negotiated).



Attempt to agree on the terms of the claim settlement



If an agreement cannot be reached, the claim may go to litigation.



The case is heard in a court of law



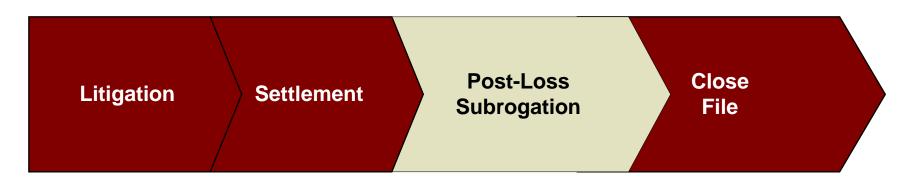
Once an agreement is reached, a settlement is made.



Agree on terms of payment or indemnification for policy benefits



An insurance company may recover from third parties involved in the claim through subrogation.



Recover any damages owed by third parties



Once all the money is settled, the claims file is closed.





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Basic Insurance Concepts

Key Insurance Processes

Financial Analysis of an Insurance Company



Financial Analysis of an Insurance Company

The way an insurance company makes a profit differs substantially from other industries:

Insurance products sold = promise to perform in the future

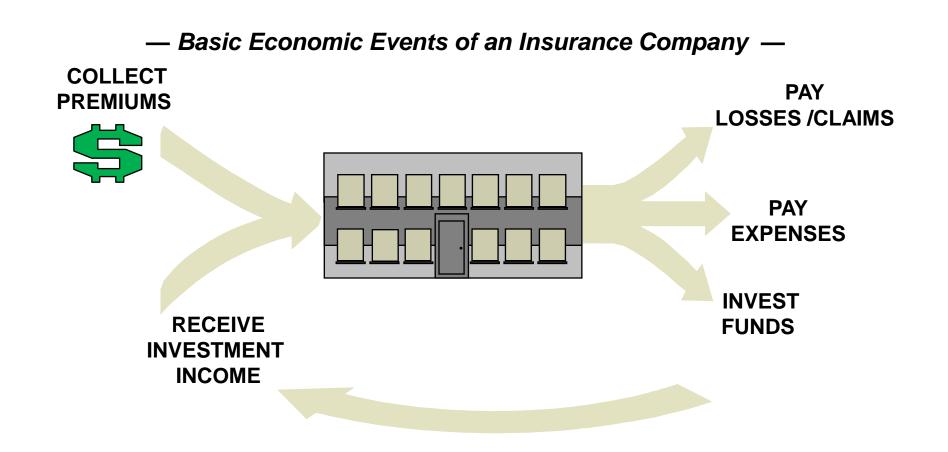
Cost of doing business is unknown when the price for insurance products is set

Results in various uncertainties in the cost of operations





Financial Analysis of an Insurance Company Various economic events effect the profitability of an insurance company







Financial Analysis of an Insurance Company

Income statements for insurance companies vary slightly from the standard.

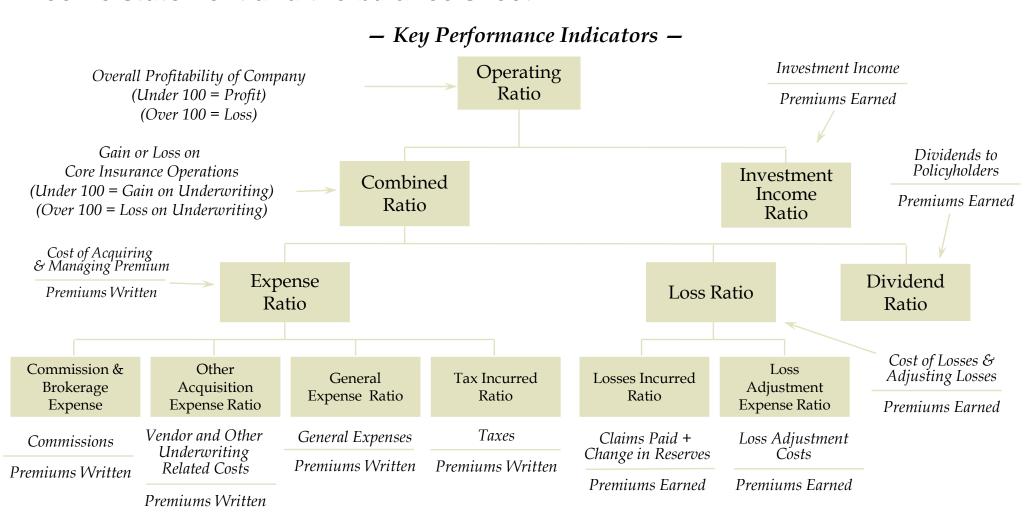
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- Basic Insurance Company Income Statement -
Net Premiums Earned (+)
  Losses or Benefits Incurred (-)
  Loss Adjustment Expenses (-)
  Underwriting Expenses (-)
                                        = Underwriting Income
Net Investment Income (+/-)
                                        = Pre-tax Operating Income
Realized Capital Gains/Losses (+/-)
Policyholder dividends (-)
Taxes (-)
                                          = Net Income
```





Financial Analysis of an Insurance Company

The insurance industry monitors key financial metrics calculated from the income statement and the balance sheet





P&C Result 2010 comparison

		State					Plymouth
	P&C	Farm	All State	Travelers	GEICO	Progressive	Rock
Net Earned Premiums	420.5	32.4	28.12	21.4	14.3	14.3	0.256
Incurred Losses							
(Including loss							
adjustment expenses)	309.1	22.8	20.5	13.2	10.6	10.1	0.184
Expenses	119.5	11.6	7.1	7.2	2.5	2.88	0.076
Policyholder Dividends	2.3	-	-	-	-	-	-
Net Underwriting Gain							
(Loss)	-10.4	-2.07	0.22	1.4	1.17	1.32	-0.004
Investment Income	47.2	2.9	4.1	3	-	0.52	0.02
Other Items	1		-2.04	-0.1	-	-0.28	-0.003
Pre-Tax Operating Gain	37.8	0.815	2.06	4.3	1.12	1.56	0.013
Realized Capital Gains (Losses)	5.7	-	-0.94	-	-	0.01	-
Pre-Tax Income	43.5	0.815	1.13	4.3	1.12	1.57	0.013
Taxes	8.9	-0.136	0.2	1.1	0.4	0.5	0.005
Net After-Tax Income	34.7	0.95	0.91	3.2	0.73	1.07	0.008
Surplus (End of Period)	556.9		15.7	23.2	10.2	5	0.18
Premium to surplus			1.6		1.4	2.9	1.4
Loss Ratio	73.5	70.4	73	61	74.4	71.4	71.9
Expense Ratio	28.4	35.8	25.1	32.2	17.8	21.6	29.7
Combined Ratio	101.8	106	98.1	93.2	92.2	93	101
Policies in force						0.012	
Market Cap		Not Listed	14.8	22.1	Not Listed	13.2	Not Listed
No of employees			35,000	32,000	24,805	24,000	1,500