Increasing retention limit of Life Insurance companies and impact on Risks and Capital Management

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I.	Why do life insurers reinsure?
Ш	Types of reinsurance arrangements
Ш	Reinsurance arrangements in India
IV	Increasing retention limits
V	Impact of increasing retention limits – Micro
VI	Impact of increasing retention limits – Macro

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### Why do life insurers reinsure?

#### **Risk management**

- Transfer mortality / morbidity risks
- Limit large / total claims
- Reduce claim volatility
- Reduce parameter risk
- Stabilize emergence of mortality experience

#### Capital management

- Lower reserves
- Lower solvency requirements
- Lower new business strain
- Increased liquidity

#### **Technical assistance**

- Knowledge transfer
- Expertise from other markets
- Product design / pricing
- Underwriting support

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### Types of reinsurance arrangements

### Individual Surplus

Excess of the original benefit over the ceding company's retention limit

To limit claims sizes and claims volatility

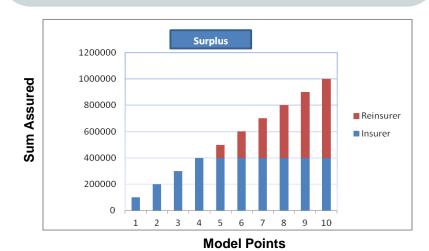
Individual life with higher sum assured (term, participating / non-participating savings)

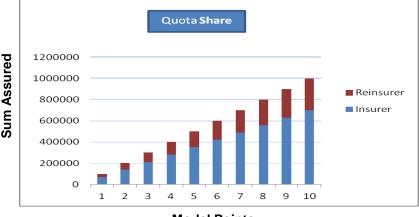
### Quota Share

A specified percentage of each policy is reinsured

To reduce parameter risk

New risks, riders, group and health





Model Points

Original terms reinsurance: not in India

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#### INSURANCE REGULATORY AND DEVELOPMENT AUTHORITY

#### NOTIFICATION

Hyderabad, the 11th February, 2013

#### Insurance Regulatory and Development Authority (Life Insurance-Reinsurance) Regulations, 2013

- Individual surplus
  - The only reinsurance arrangement allowed for individual business (new regulations)
- Quota share
  - Group and Health (new regulations)
    - Initial two years of starting health / group operations
    - Initial two years of introducing a new risk / product
- Current scenario
  - Term business being offered at very competitive rates as it is being subsidized by low premiums charged by reinsurers

• New "benchmark limits"

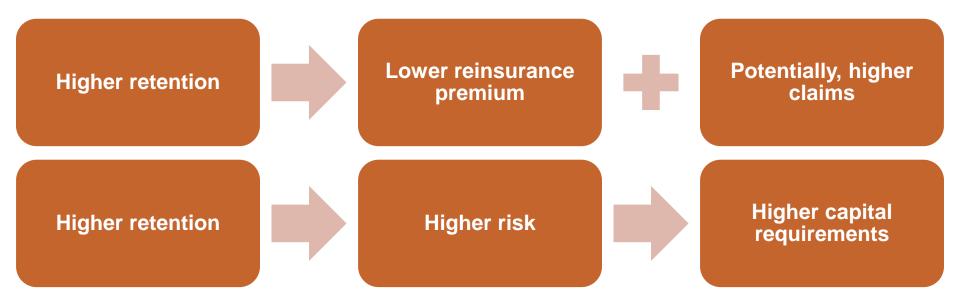
Types of	Age of the insurer or year in which the risk is introduced					
products or riders	0-3 years both inclusive	4-7 years both inclusive	8-11 years both inclusive	12-15 years both inclusive	>15 years	
Pure Protection	5 lacs	10 lacs	15 lacs	20 lacs	Will be	
Savings	10 lacs	20 lacs	30 lacs	30 lacs	prescribed by the	
Group protection	5 lacs	10 lacs	15 lacs	20 lacs	Authority for all product	
Health insurance	1 lac	3 lacs	3 lacs	4 lacs	types	

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### Increasing retention limits - critical decision

#### **Factors affecting level of retention:**

- Risk appetite
- Risk limits / loss criteria
- Level of free assets
- Risk-return trade-off
- Effect on capital position
- Technical expertise



Why increase retention limits?

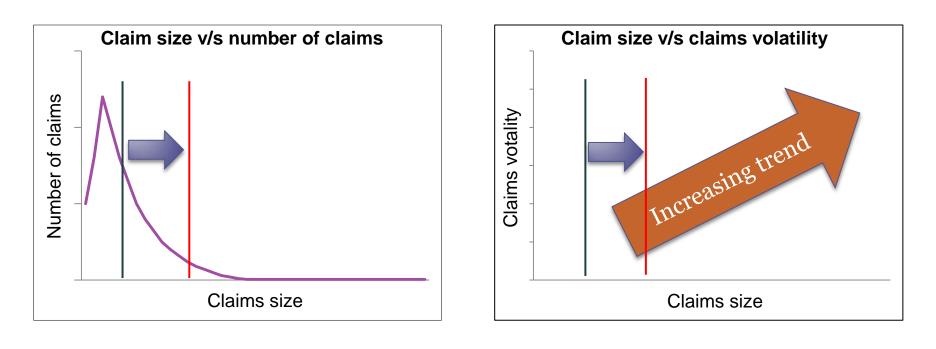
### Insurer

- Increased risk appetite
- Ability / desire to retain mortality / morbidity risks
- Reduced claims volatility
- Offering products with little mortality / morbidity risk
- Increased confidence in assumptions / variability
- Higher cost of reinsurance
- Improved capital position
- Regulations!!!

### Regulator

- Avoid fronting of business
- Encourage development of robust in-house risk management capabilities
- Minimize counterparty risk
- Minimize reinsurance cost
- Retain life insurance premium within the country?

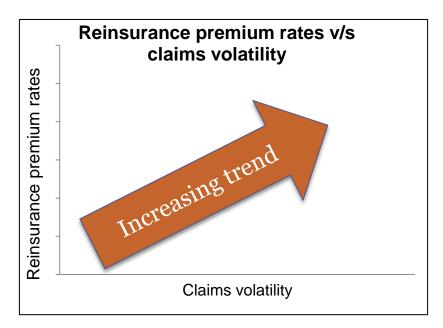
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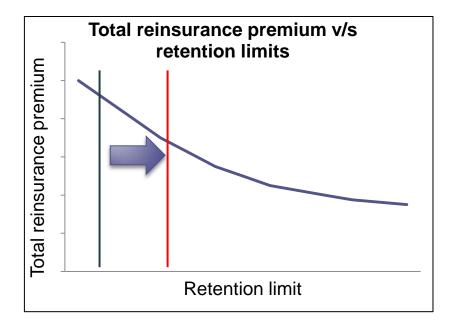


Number of claims v/s claims size --> no. claims reduce as claims size increases

Claims volatility v/s claim size --> volatility increases as claims size increases

Index:	Original retention limits New retention limits





Reinsurance premium v/s claims volatility --> reinsurance premium increases with claims volatility Reinsurance premium v/s retention limits --> increasing retention limits should reduce reinsurance premium, but the reduction in reinsurance premiums might slow down due to increased volatility



### Impact of increasing retention limits - micro (3)

Factors impacting reinsurance premiums



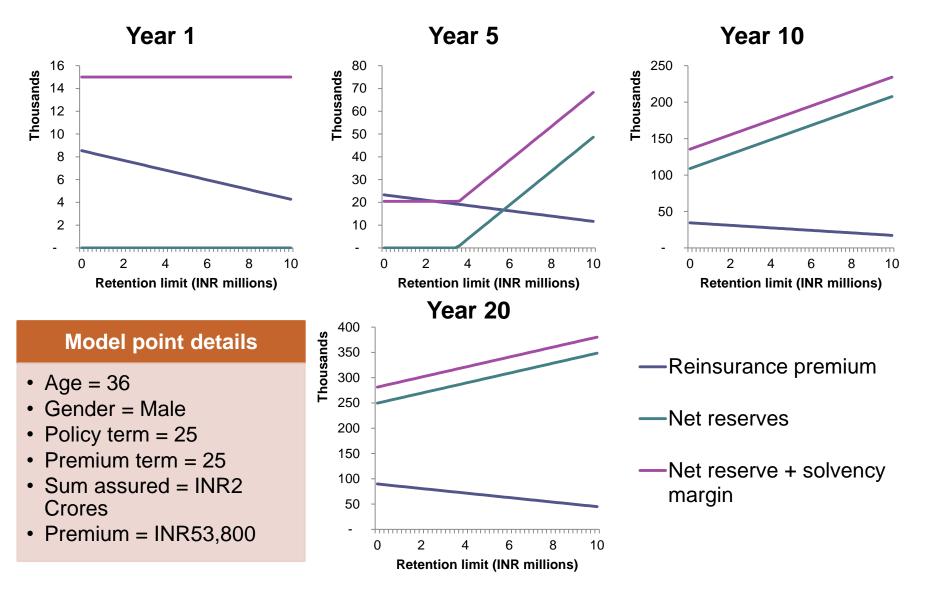
- Fixed costs (reduced business)

- Improved selection
- Increased competition

• The exact impact on reinsurance premiums would vary depending upon the circumstances of each reinsurer.

### Impact of increasing retention limits - micro (3)

Level term insurance product (SA = INR2 Crores)



### Impact of increasing retention limits - micro (4)

• Impact on revenue account and balance sheet for different product types:

Pro	tection
•	Increased premium levels due to lower subsidy from reinsurers Higher claims volatility Increased reserves / solvency capital requirements
Uni	t linked
•	Higher mortality charges? Small impact on reserves / solvency capital requirements
Par	ticipating/ non-participating
•	Small increase in premium levels Small impact on reserves / solvency capital requirements

 Note that in other countries who have implemented economic capital, capital requirements might have increased significantly for protection business due to increased volatility.

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# Impact on risks

- Increased parameter risk
- Increased claim size risk
- Increased claims volatility
- Increase in risk tolerances / limits
- Lower mortality / morbidity risk mitigation options
- Operational risk administrative / reporting errors
- Marketing risk increase premium levels
- Liquidity risk?
- Reduced counterparty risk
  - retention of larger percentage of gross premium within the company
  - retention of larger percentage of gross premium within the country

# Impact on products

- Re-pricing
- Different retention assumptions for different product category
- Change in cost of reinsurance
- Higher premiums for protection oriented products
- Pricing assumptions: lower support from reinsurers
- Reduced innovation?
- Valuation assumptions: increased MADs
- Terms and conditions more exclusions?
- Underwriting: more stringent at inception and claims stage
- More realistic price of risk charged to customer

## Impact on capital management

- Increase in reserves
- Increase in solvency capital requirement especially for protection oriented business
- Reduced solvency ratio impact should be minor for larger companies, higher for smaller protection oriented companies
- Possible modifications to risk appetite / limits / reallocation of economic capital
- Increased cost of capital
- Fluctuation in dividends to shareholders
- Capital infusion

## Impact on business strategy

- Limit the market for pure protection product
- Change in distribution channel strategy (e.g. online selling)
- Limit entering new market with no prior experience
- Limit development of product with little or no knowledge

## Reinsurer

- Reduced total reinsurance premiums
- Need to change reinsurance premium rates
- Diseconomies of scale
- Lower interest hence reduced technical support
  - Pricing
  - Underwriting
  - Market research data for innovative products
- Possible exit of reinsurance companies from India
- Increased monopoly if fewer reinsurers
- Deterrent for entry of new reinsurer

The views and opinions expressed in this presentation are those of the authors and not of the employers they represent.

# Questions and answers

# Thank you!