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How Statistical Underwriting and Actuarial Pricing can help grow the profits of general insurance companies.

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- 1. Introduction
- 2. Experience of Motor Markets in Asia
- 3. Strategic consideration for General Insurance Companies
- 4. Final words Mature Insurance Markets

Experience of Motor Markets

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Singapore Market

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Definitions

- Rate Levels: Average % of tariff
- **Profitability** : Gross loss ratios
- **Competitiveness% :** % of policyholders subject to 40% discount off tariff



Rate Levels by Vehicle Age

Attractive rates relative to "old tariff" for new (0-4 year old) cars.



Loss Ratio by Vehicle Age

Loss ratio goes up with age of vehicle as tariff not reflective of claims experience. Opportunity to write relatively new (0-4 year old) cars.



Competitiveness % by Vehicle Age

Competitive -40% discount to tariff - for policyholders with new cars (0-4 years).



Rate Levels by Vehicle Capacity

Attractive rate levels for larger cc cars.



Loss Ratio by Vehicle Capacity

Poor loss ratios for smaller cc cars and better experience for larger cars.



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Competitiveness % by Vehicle Capacity

Competitive rates for larger cc cars.



Rate levels by Vehicle Make

Mix of age and capacity important to understand this chart.



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Loss Ratio by Vehicle Make

Mix of age and capacity important to understand this chart.





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Competitiveness % by Make

Mix of age and capacity important to understand this chart.



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Hong Kong Market



Loss Ratio by age of Vehicle

Older cars have better experience.



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Loss Ratio by Capacity

Larger capacity cars have better experience



Loss Ratio by Vehicle Make

Mix by age of car and capacity important to understand these results better.



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Strategic Consideration for General Insurance Organisation



Strategic Considerations

- Underwriting Sophistication
- Strategic Responses in the face of Competition
- Business Intelligence for General Insurance



Underwriting Sophistication

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Market Practice

- "Market Practice". What is that?
 - Tariffs in some territories and lines of business
 - Commercial Considerations
 - Case Underwriting Approach



Spectrum of Underwriting



Uses results at portfolio level to decide rates

Underwriting by the use of information at portfolio level

Underwriting on the merits of each risk



Why Price?

- True costs of risk unknown
- Subsidy and anti-selection
- Key element of Business strategy distribution to profitable segments key to profit



Introduction – True Costs Unknown





Simple Illustration Impact of Rating & Segmentation

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Simple Case Studies

- Current Status
- Tariff Environment Benefit of Segmentation
- Competitive Environment benefit of pricing and segmentation
- Anti-selection what happens when you are left behind



Current Status





Current Status



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Tariff Environment – Benefits of Segmentation





Tariff Environment – Benefits of Segmentation



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Competitive Environment:

Benefits of Pricing & Segmentation



Competitive Environment: Benefits of Pricing & Segmentation

Loss Ratio Profit (assume 35% expenses and 80 commissions) 62 61 **4.0** 3.51 **60** 3.0 \$ 40 1.89 ₽ 2.0 1.62 20 1.0 0.0 0 Married Single Total Single Married



Anti-Selection- What happens when you are left behind?



Number of Vehicles Written



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Anti-Selection- What happens when you are left behind?



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Comparison of Results Across Scenarios

Underwriting Profit (\$m)



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Impact of Competition Strategic Response



Impact of Competition



Competition and Management Information



Loss Ratios & Management Info

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Competition and Underwriting

Level of Sophistication in Underwriting



Level of Competition

- Sophistication in Underwriting Analysis
- Refinement in rating



Business Intelligence for

General Insurance

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Learning Organisation –

Information Cycle for Underwriting Decisions



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One Step Further – Tracking "Future Performance"?

- Current performance reports reflect historical business decisions
- Can we develop an indicator of expected future profitability of the business for personal lines business?
- QOB indicator measures current rates against technical rates
- Strong relationship between QOB indicator and future profitability
- Early identification of the business performance
- Effective way to target profitable segments/ avoid value destroyers



Food for Thought



Food for Thought

- Is market segmentation a practice in your organisation?
- Which market segments are profitable within your organisation?
- To what extent is distribution aligned to target profitable segments?
- How does your current management information facilitate the above process?
- As an industry, where are we on the underwriting spectrum?
- What regulatory changes are needed to encourage greater underwriting innovation?

Final Words from Mature Insurance Markets



Post Magazine Articles

- "trend towards segmentation.....discounts to the good risks are available.."
- "as underwriters compete for favourable risks, there will be a greater push to find HIDDEN niches..."
- "There was a short time when pricing gave competitive advantage....now they are really tools of the trade and everybody is using them"
- "... market for insurance is finite, growth is a matter of extracting maximum profits from existing portfolios.."



End of Presentation

