Using Internal Data for a Competitive Advantage

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Using Internal Data for a Competitive Advantage: Applications



Using Internal Data for a Competitive Advantage: Applications

- Business Steering
- Costing Accuracy
- Client Centricity

 Are opportunities to strengthen your competitive position being missed?



Business Steering:

Profitability relativities by business segment

- Can the following questions be answered (including full economic profitability):
 - What is the profitability differential between new and renewal business?
 - What is the profitability differential between the personal and commercial motor business?
 - What is the profitability differential between supported and unsupported umbrella?
 - For excess business, what is the profitability differential by attachment point?
 - What is the profitability of property and workers comp business if nat cat and terror coverage premium (and loss) are excluded?
 - What is the profitability of the clash business?



Costing accuracy—Complete the loop Feedback from actual results to costing parameters

- If actual results differ from costing expected can the following questions be answered:
 - Is it driven by differences in frequency assumptions or severity assumptions?
 - How do rate level and trend assumptions compare to actual?
 - How do actual distributions by state, class, LoB, segment, etc differ from expected?
 - Are the incurred and paid losses developing as expected?
 - Which of experience and exposure rating performed better?
 - Did loss exposure emerge that was totally unexpected (and unanalysed)?
 - Are there particular sub segments that drive the results?
 - Were your estimates of primary ELR accurate?



Client Centricity:

Using your data to help your clients be more profitable

- Is your data being used to do the following:
 - Assist clients entering into new lines or types of business?
 - Assist (regional ??) clients in low frequency areas where you may have much more data than they have
 - Benchmark client stats against peers
 - Customize a standard presentation to provide a client insight into their own book of business
 - Assist your clients in database design and profitability reporting tools
- If these and similar services are not offered, are you missing opportunities to connect to clients more closely



Optimizing an Internal Database: Foundational Concepts



Optimizing an Internal Database: Foundational Concepts

- Data consistency and connectivity
- Data completeness
- Data granularity



Data consistency and connectivity

- Across complete life of contract and across landscape
 - Identical contract ID across landscape
 - Identical contract structure: pricing and accounting
 - Consistent premium and loss allocation to contract subsegments (e.g. line of business)
 - Consistent contract ELR and lag patterns in pricing, reserving and EVM
- Pricing, Underwriting, Accounting, Reserving, and EVM databases must be able to share data at contract and business segment level
- Same information retrieved from any database or an reporting tool should be identical!!!



Data completeness: Premium & Loss examples

- Premium
 - Data necessary to create a price monitor as well as frequency of large loss
 - Exposure information or at least,
 - Ground up subject premium
- Loss
 - Data necessary to develop size of loss distribution
 - Ground up loss
 - Data to allow predictive modelling of claims
 - Cause & Consequence of loss



Data completeness: Pricing Data

- All valuable data calculated during pricing should be stored in a database
 - Expected incurred and paid loss lag patterns
 - Expected rate changes and trend factors
 - Primary ELR used in exposure rating
 - Exposure and experience rates
 - Cat components of pricing EL



Data Granularity

- Premium and loss should be allocated to line on multiline contracts
- Line of business or other business segment should allow segmentation of business into segments that can inform business steering
 - personal vs commercial
 - cat vs non-cat
 - supported vs unsupported umbrella
- IBNR needs to be calculated or allocated to contract/LoB level





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