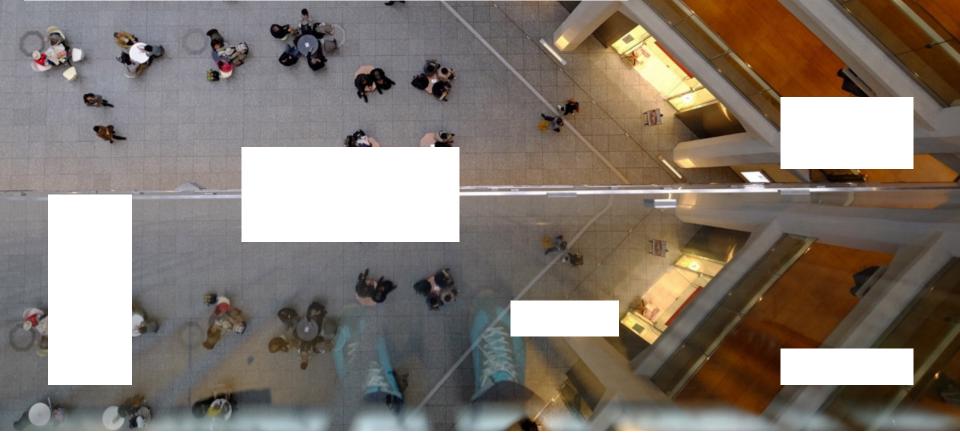
CAS RPM Seminar

Small Business Rating Plans: Challenges & Innovations

Chris McKenna, FCAS, MAAA March 2016



© 2016 Willis Towers Watson. All rights reserved. Proprietary and Confidential. For Willis Towers Watson and Willis Towers Watson client use only.

Willis Towers Watson IIIIIII

Overview

- BOP Industry Trends
 - Rating Plans
 - Underwriting Approaches
- Competitive Analysis
 - Qualitative
 - Quantitative

Survey Question #1: What is the average premium for a BOP policy?

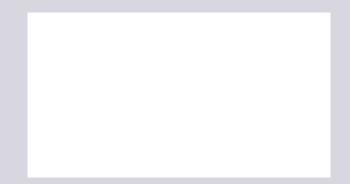
A. Less than \$2,000

B. \$2,000 - \$4,000

C. \$4,000 - \$6,000

D. \$6,000 - \$8,000

E. More than \$8,000



BOP Industry Trends

© 2016 Willis Towers Watson. All rights reserved. Proprietary and Confidential. For Willis Towers Watson and Willis Towers Watson client use only.

Survey Question #2: Which of the following aspects do companies feel the most competitive pressure for rating/writing BOP risks?

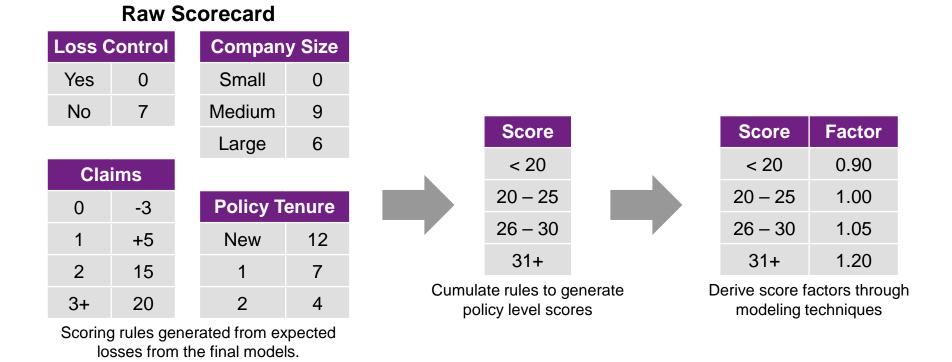
A. Classification rating	D. Introduction of business owner characteristics
B. Liability exposure bases	E. Increased automation at the point of sale (i.e., "no touch" by underwriters)
C. Developing underwriting tiers	

As competition intensifies, companies are increasing the sophistication within their BOP rating plans

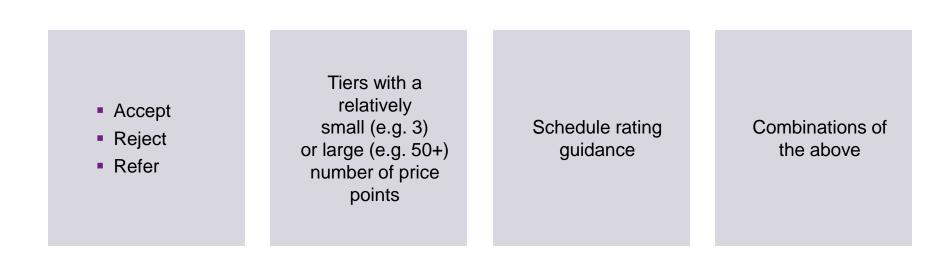
Increased rate refinement across classes of business	Allowing greater rate segmentation across class codes and other rating aspects, including amount of insurance (AOI) curves and age of building
Expanding approach to liability rating	Using a separate rating algorithm for liability that uses liability-specific exposure bases for all market segments
Incorporation of UW info into rating plan	Introducing tiers into manual rates, which incorporates new variables (including business owner characteristics); this allows for increased rate segmentation and increases in consistency/objectivity
Adoption of market segmentation focus	Adopting market-centric approach, which allows for greater ease of monitoring, analyzing and changing rates by market segment (office, retail, habitational, etc.).
Improve automation at point of sale	Developing a more efficient approach to verifying risk info (including external data sources); triage risks for appropriate level of underwriter review (no touch / light touch / heavy touch)

Example — Underwriting (profit) scoring models

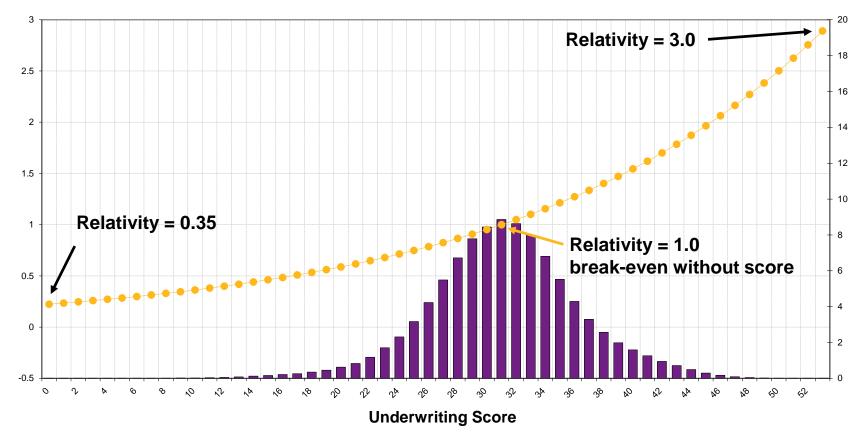
- Profitability scoring models rank risks according to the profitability underlying current rates
- Model predictors can include existing rating variables and/or new underwriting information (internal or external data)



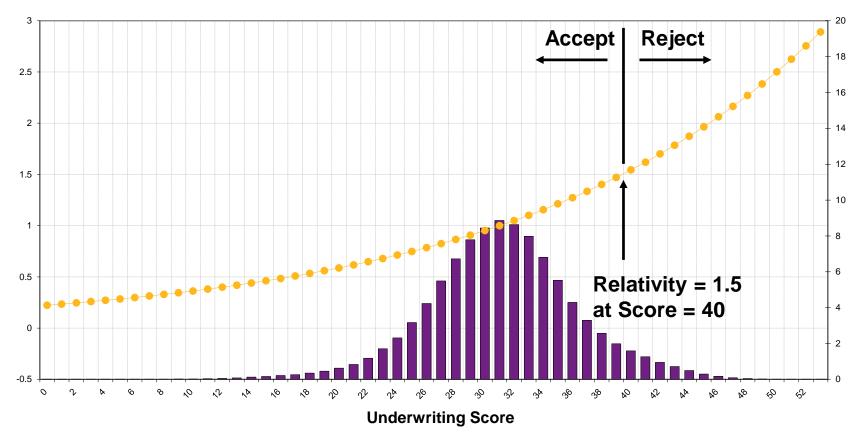
Underwriting scores can be used in a variety of ways



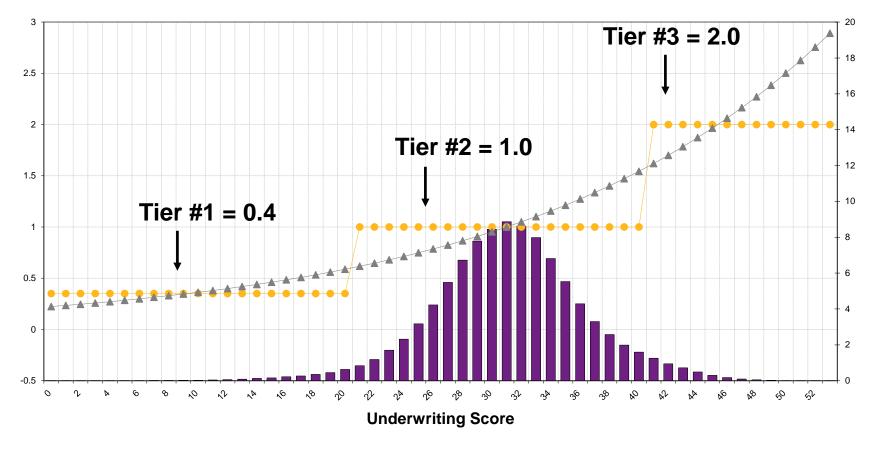
Illustrative underwriting (profit) score



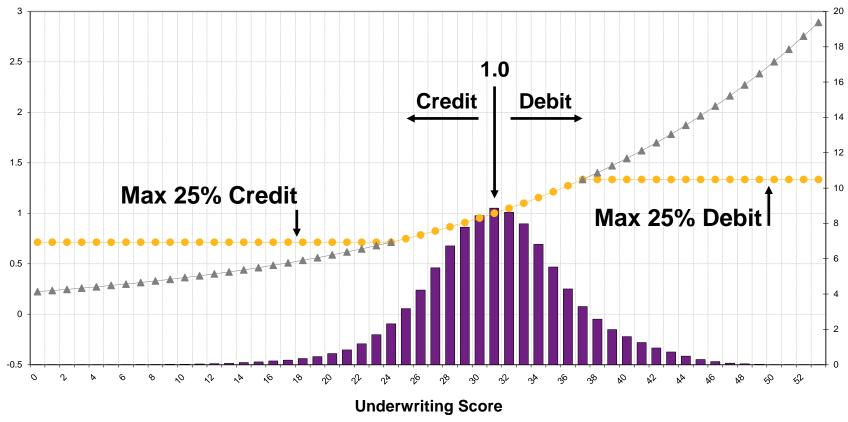
Accept/Reject Scoring



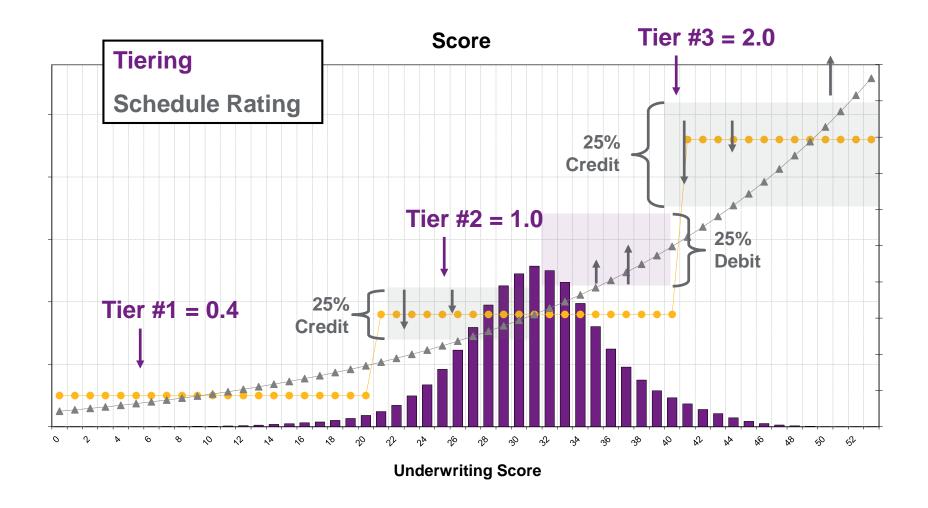
Tiers or separate underwriting companies



Schedule Rating



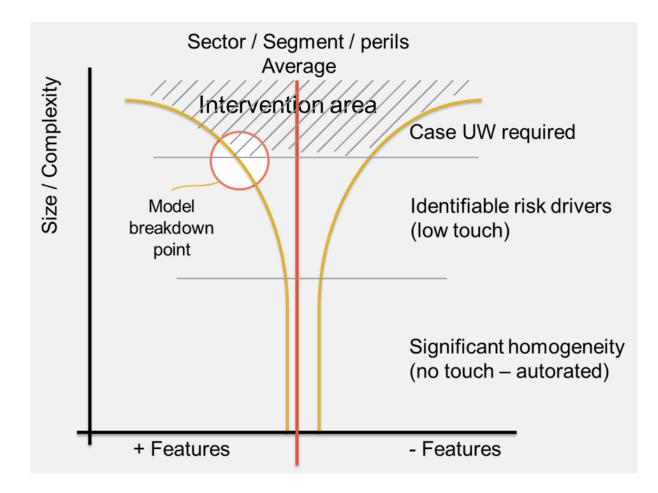
Tiering with schedule rating



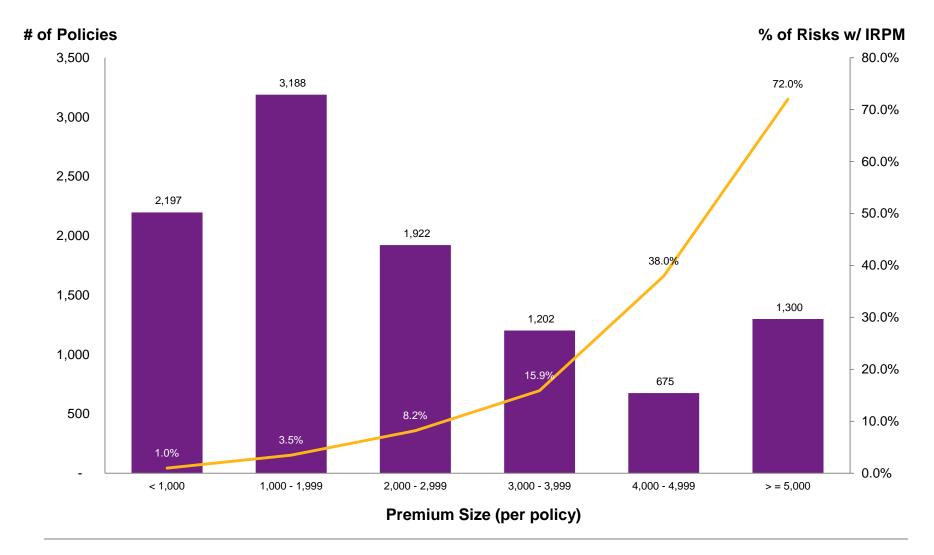
Survey Question #3: What percentage of BOP risks are written without any underwriter "touch" or schedule rating adjustment?



Increased rating plan sophistication can improve process flow and allow for better underwriter utilization



With increased confidence in rating plan, company's underwriting resources can be better allocated





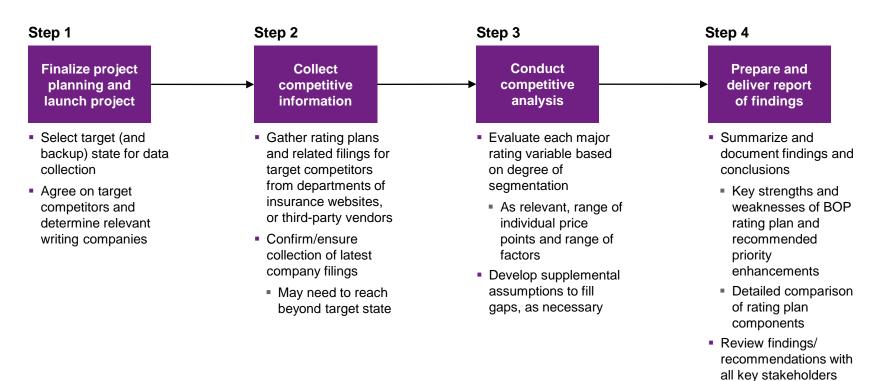
Competitive Market Analysis (CMA) – Qualitative

Insurers use various approaches to CMA — we will consider qualitative and quantitative



These options are not mutually exclusive — different approaches can be used in combination

A qualitative rating plan analysis may identify key strengths, gaps and enhancement priorities of your BOP rating plan



Qualitative Rating Plan Analysis

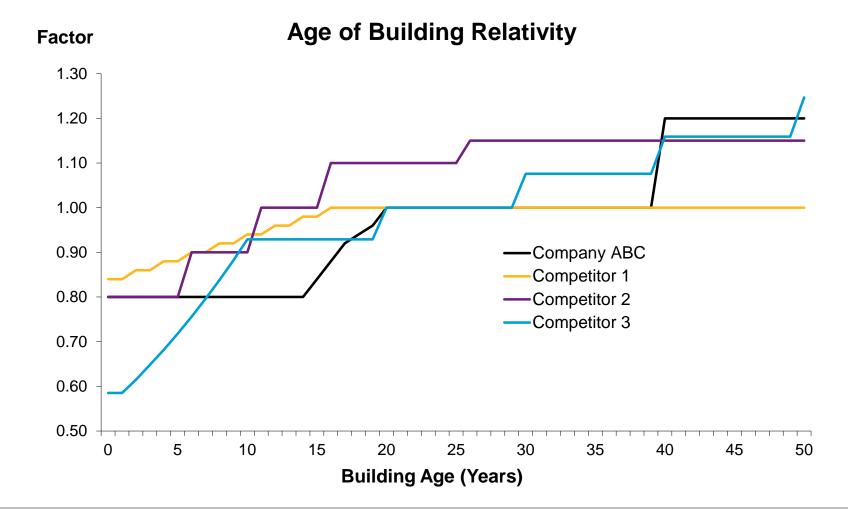
WillisTowersWatson 1.1"1"1.1 19

A qualitative analysis includes review of each rating variable, organized by category

Variable Type/Category

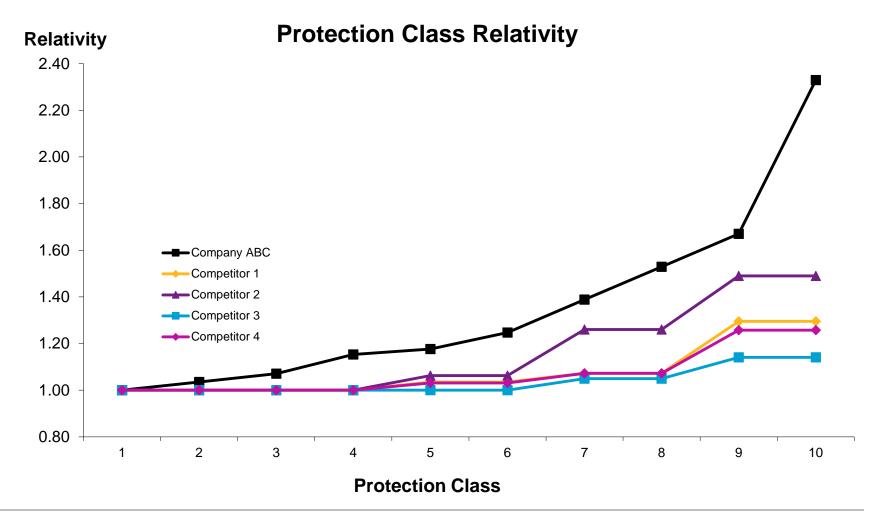
- Coverage
 - Rating algorithm, exposure bases, limits, deductibles
- Territory
- Building-related variables
 - Construction type, protection class, sprinkler credit, age of building
- Insured-related variables
 - Market segment, class of business, number of locations
 - Years in business, claim history, payment history, credit score
- Insurance score/ tier
- Additional rating mechanisms
 - Schedule rating
 - Experience rating

Age of building: there is a wide variety of approaches to rating for the newest buildings

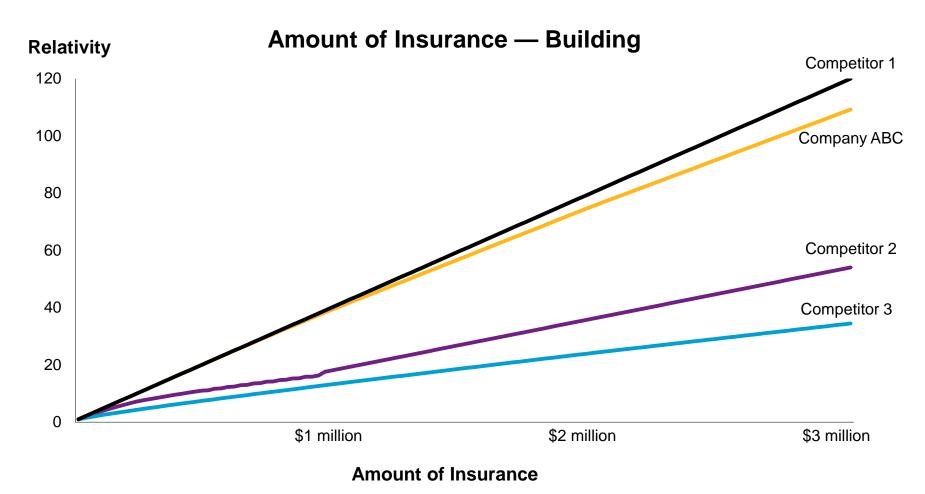


WillisTowersWatson 1.1"1"1.1 21

Protection class: Company ABC has a significantly wider range of relativities than its competitors

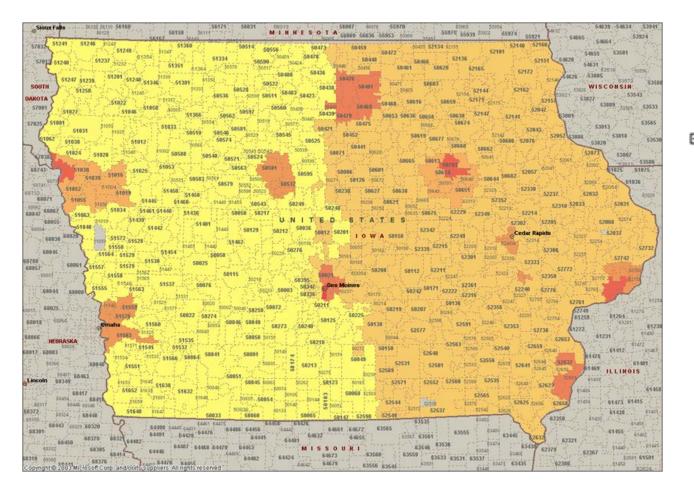


Amount of Insurance (AOI): Companies use different approaches to AOI curves

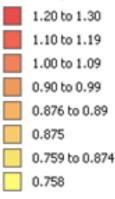


Note: Factor is based on the rate at each AOI divided by the rate at AOI of \$25,000, which is assigned a factor of 1.0.

In its territorial rates, one of Company ABC's competitors distinguishes between the east and west of Iowa and between urban, suburban and rural zip codes



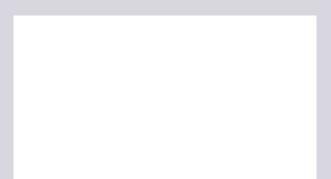




A qualitative rating plan analysis highlights important competitive gaps that may impede profitable growth

Summary Comparison of Rating Sophistication by Category

	Relative	Degree of Segmentation					
Rating Variables	Competitive Importance	Company ABC	Competitor 1	Competitor 2	Competitor 3		
Overall rating approach		٢			٢		
Territory			٢		٢		
Building-related				G			
Insured-related	C						
Additional rating mechanisms					•		
Overall		O		G			
🔿 N/A 🕒 Low 🌗 Medium 🌓 High 🛑 Very High Key Gap =							



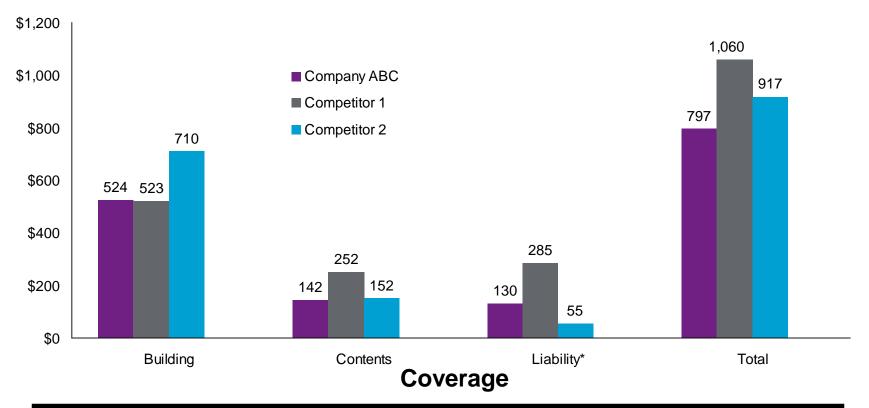
Competitive Analysis – Quantitative

The quantitative CMA focuses on actual pricing for a sample of risks (based on rating algorithms in competitors' rate filings)

Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Finalize project planning and launch project	Collect competitive information	Develop algorithm alignment	Create input database	Generate Company ABC and competitor premiums	Prepare and → deliver report of findings
 Agree on target state for analysis Agree on target competitors and writing companies Ideally, competitors will be those selected for the qualitative analysis Agree on industry target segments and define sample risk profiles 	 Gather rating plans and related filings for target competitors It is likely that the materials gathered for the qualitative rating plan analysis will be sufficient However, you may need to obtain external/competit or information on certain rating variables not used by Company ABC 	 Develop alignment of competitor algorithms with Company ABC Validate results with competitor filing information (as available) Note: Final alignment will be used as input into Steps 4 and 5 	 Create competitor algorithms in Excel or other software based on rule/rate manuals to generate premiums Create database of all necessary rating information Agree on assumptions/ approach for populating variables that competitors use and for which Company ABC does not collect data 	 Generate premiums for sample risks identified in Step 1 using input database Create charts to display the premiums for all sample risks Present initial results to actuarial and/or underwriting for review/feedback (Optional) Present initial results to a handful of agents for feedback / validation 	 Summarize and document findings and conclusions, e.g.: Detailed summaries of competitive position by segment Types of risks for which Company ABC is most likely to have a higher or lower price than the competitors Recommended enhancements Review findings/ recommendations with all key stakeholders

Quantitative Rating Plan Analysis

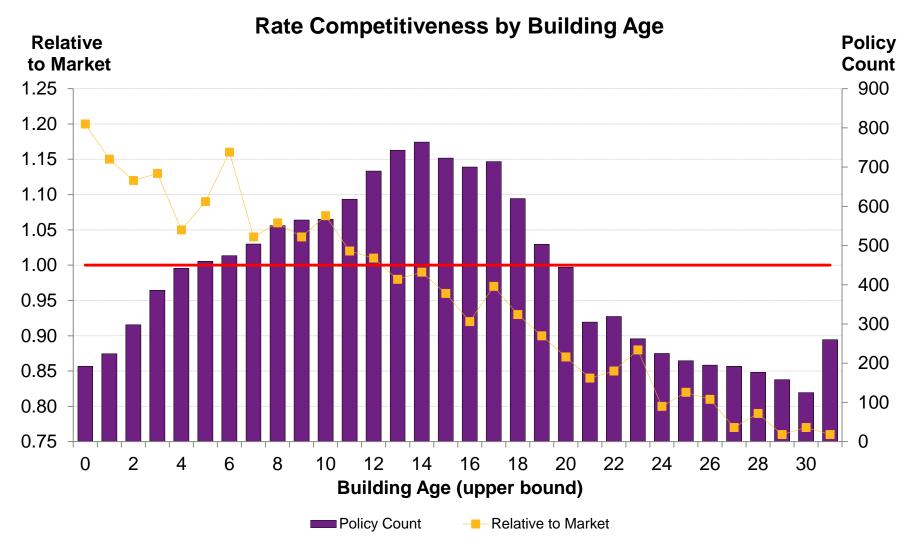
A quantitative CMA will compare Company ABC premiums to competitors' premiums on a defined customer dataset for a selected state(s)



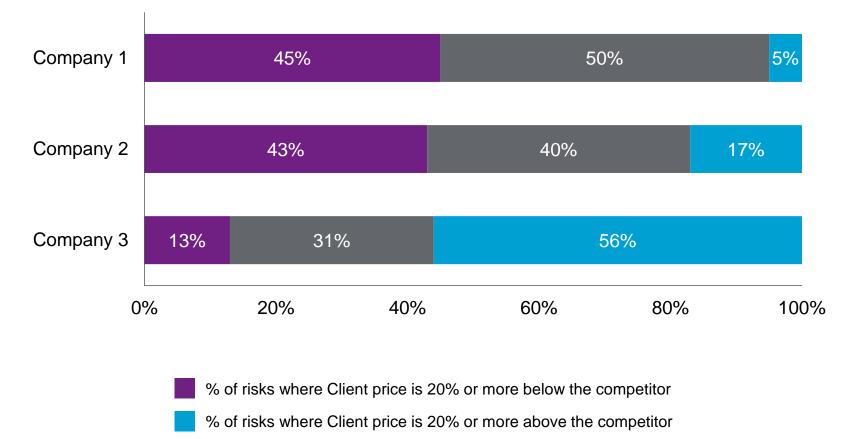
BOP Average Premiums

Beware of potential inherent bias in using current policy mix of business

The quantitative CMA will compare pricing by rating factor/segment



A quantitative CMA will compare Company ABC's price to each competitor for the sample of risks



BOP Example – Relative Competitiveness

© 2016 Willis Towers Watson. All rights reserved. Proprietary and Confidential. For Willis Towers Watson and Willis Towers Watson client use only.

Questions

