Impacts Across the Firm: Commercial Lines Pricing Systems

Presentation by Dustin Duncan, Kevin Madigan, Steve Walsh March 2021

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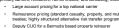
Today's Speakers Steve Walsh, FCAS, FSA



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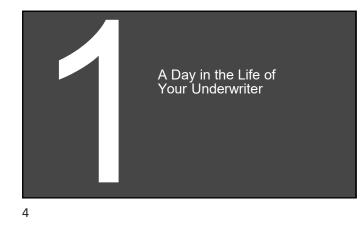
Impacts Across the Firm: Commercial Lines Pricing Systems 2021 Reternating, Product and Modeling Seminar

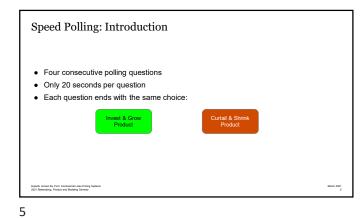
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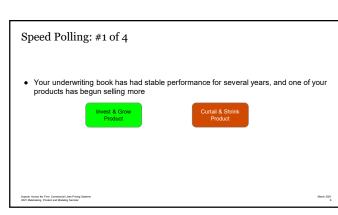


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Today's Speakers Dustin Duncan, FCAS, MAAA
 Director, Head of US Operations, RPC Tyche (37) 341-1961 director, Head of US Operations, RPC Tyche (37) 341-1961 Dustins floats and theriping insurers moderrize and improve their systems and moderning platforms. He has one servery years of property & casually underwriting systems Designed, Heil and decloyed inspected catabatorbe second registration and Designed, Heidended Insurational (A) unverwining systems Designed and deployed integrated catastrophe accumulation monitoring systems Built and implemented capital models Applied advanced analytics to improve ratemaking and claims processes . tion and certifications Education and certifications Dustin was formally a Principal al Oliver Wyman Actuarial Consulting. He is a Felow of the Casually Actuarial Society, a Member of the American Academy of Actuariae, a Member of the CAS Ralemarking, Product and Modeling Seminar Planning Committee and holds a B.A.S. in Actuarial Science (magna cun lunde) from Bladte University. Impacts Across the Firm: Commercial Lines Pricing Systems 2021 Ratemaking, Product and Modeling Seminar March 2021 3

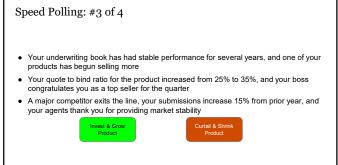








Speed Polling: #2 of 4		
Your underwriting book has had stable performance for several years, and one of your products has begun selling more		
 Your quote to bind ratio for the product increased from 25% to 35%, and your boss congratulates you as a top seller for the quarter 		
Invest & Grow Product Product		
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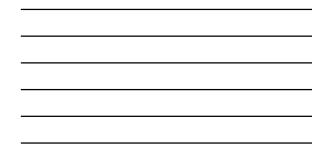


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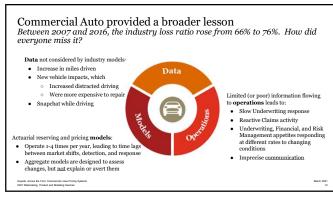
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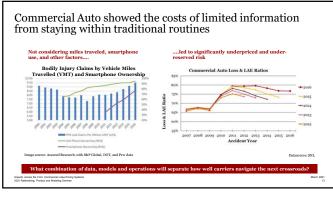




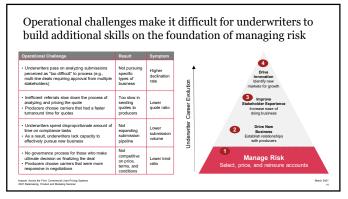
	Invest & Grow Product	Curtail & Shrink Product
Your underwriting book has had stable performance for several years, and one of your products has begun selling more		
Your quote to bind ratio for the product increased from 25% to 35%, and your boss congratulates you as a top seller for the quarter		
A major competitor exits the line, your submissions increase 15% from prior year, and your agents thank you for providing market stability		
Your actuary completes a study of 9 month old claim data and finds paid loss ratio is up 20% on this product		

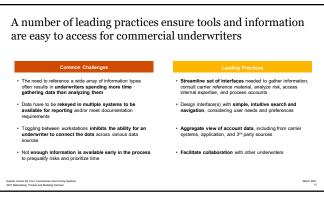
 We recently observed two insurers making different strategic moves in the same commercial lines segment. One insurer was exiting the segment while another was growing. The exiting insurer had the management information, underlying data, and operating governance to recognize and react to the emerging trends; the growing insurer did not. In this case, insureds within the segment were offering a new service with a different and much higher loss potential. 		Carrier entering	Carrier exiting
		 Significantly higher productivity metrics than expected Decided to "double down" 	 Significantly higher productivity metrics along with higher claims activity and could not readily iden the drivers.
	rating		 Decided to pause writings while evaluating the market (eventually deciding to exit)
	did not. Underlying Data Structure	which led to quarters of	 Tightly integrated, which enable timely and accurate product
		adverse experience before the underwriting issue was addressed Led to significant losses	 Cross-functional communication that informed the moratorium and exit decisions



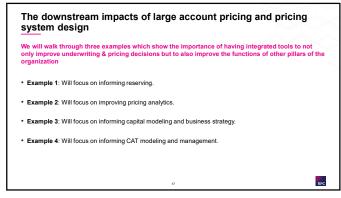


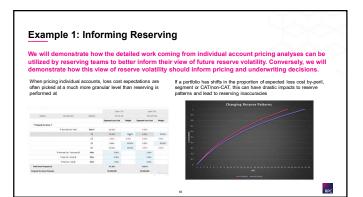




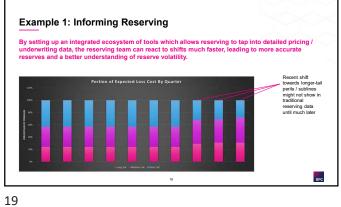




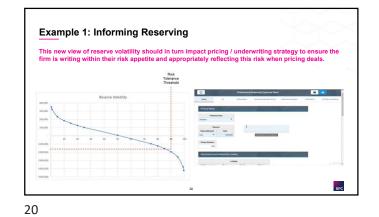




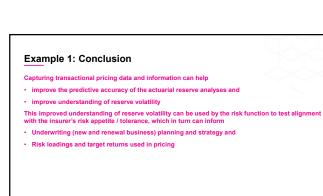




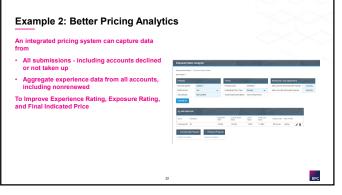


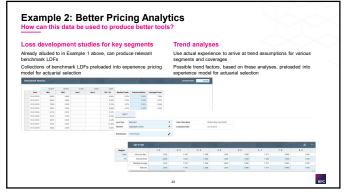




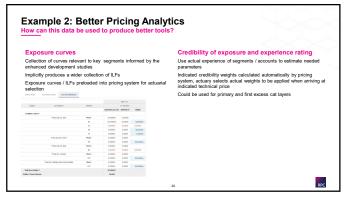


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Example 2: Conclusion

Capturing transactional pricing data and information can help insurers develop better benchmarks and algorithms for experience and exposure rating

- Trend and Development benchmarks for use in developing exposure curves and inputs to experience pricing models which in turn can be shared with the reserving and risk functions to inform selections made for their models
- Development of more granular and relevant exposure curves (and associated ILFs)
- . Automation of credibility procedures and production of indicated credibility weights

Insights gained from the improved pricing process can also inform underwriting strategy and planning and assist in the production of risk metrics for the risk function's management reporting.

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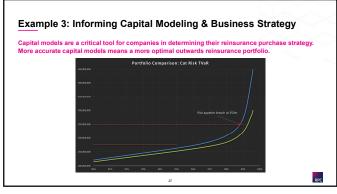
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We will demonstrate how transactional pricing data can be detailed by the capital modeling and the model information pricing data can be detailed by the capital modeling and the model information pricing data can be detailed by the capital modeling accuracy. The maximum capital capital capital modeling accuracy will be detailed by the detailed by the capital modeling accuracy. The maximum capital capital modeling accuracy will be detailed by the detailed by the detailed by the capital modeling accuracy. The maximum capital capital modeling accuracy will be detailed by the detailed by the detailed by the detailed by the capital modeling accuracy. The maximum capital capital modeling accuracy will be detailed by the detailed b

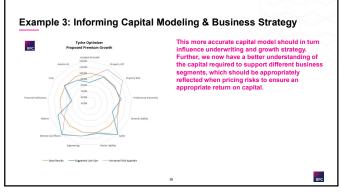
Example 3: Informing Capital Modeling & Business Strategy

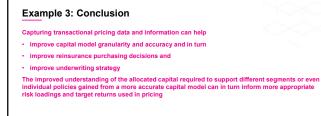
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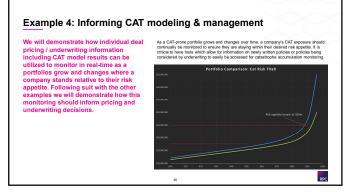
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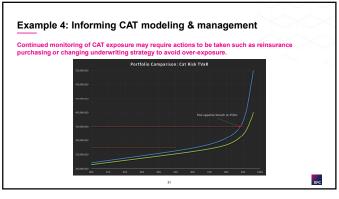




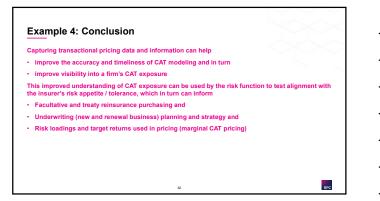


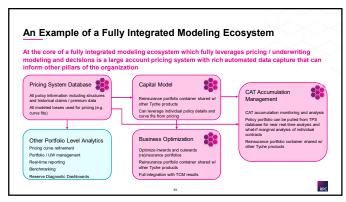


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Thank you!	Questions?	
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