ACCIDENT FUND HOLDINGS, INC.

Ratemaking - Risk and Return Considerations

CAS RPM 2010 Presented by Tony Phillips, FCAS Chief Risk Officer and Chief Actuary March 17, 2010

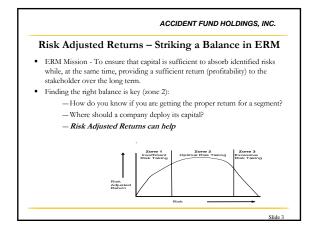
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Goals of the Presentation

- Risk Adjusted Returns Striking a Balance in ERM
- Example of a Risk Adjusted Return within an ERM frameworkBenefits of Risk Adjusted Returns
- Considerations

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1	Risk Adj	usted]	Return -	- Exercise Part	1
Assume :	a P&C Grou	p called X	YZ is made	e up of four operating	company's
(business	s segments).				
Which se	egment is the	performi	ing the best	? Or is the most efficie	nt?
	D has best co	•	0		
_/	A & Corener	ite the mo	ost underwr	iting income.	
1	r te o genen	the the me	or under wi	ing income.	
			U/W	Capital (allocated	
		CD	U/W	Capital (allocated	Pre Tax
Segment	Premium	CR	U/W Income	Capital (allocated based on premium)	Pre Tax ROE
Segment A	Premium 550	CR 98.0%			
0	-		Income	based on premium)	ROE
A	550	98.0%	Income 11.0	based on premium) 454.0	ROE 10.1%
A B	550 170	98.0% 95.0%	Income 11.0 8.5	based on premium) 454.0 140.3	10.1% 13.7%



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Risk Adjusted Return - Exercise Part 2

- Additional information about XYZ' operating segments:
 Segment A: Writes medium to small accounts, however it has gone through some significant claims changes. It has good geographic diversification, with limited earthquake exposure, but does have concentrations in some major cities.
 Impact on Cat, reserving and some pricing risk.
 Segment B: New segment with limited experience, writes in California, has significant earthquake exposure.
 Impact on Cat, reserving and pricing risk.

 - · Impact on Cat, reserving and pricing risk

 - Impact on Cat, reserving and pricing risk
 Segment C: Niche company writing mainly debit accounts with a limited appetite, no cat exposure, consistent underwriting results.
 Impact on pricing risk.
 Segment D: Writes XS and large deductibles for very large accounts that have significant Cat exposure and underwriting volatility because of the type of business.
 Impact on mainly on Cat and pricing risk.

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I	Risk Adj	usted	Return -	- Exercise Pa	rt 2		
Then con Does thi	Now determine the required capital for each segment based on RISK. Then compute the risk adjusted ROE. How does each segment look now? Does this change the <u>pricing</u> recommendations? Where would you deploy the capital?						
Segment	Premium	CR	U/W Income	Capital (allocated based on risk)	Pre Tax Risl Adj ROE		
Segment	Premium 550	CR 98.0%					
0			Income	based on risk)	Adj ROE		
A	550	98.0%	Income 11.0	based on risk) 415.0	Adj ROE 11.0%		
A B	550 170	98.0% 95.0%	Income 11.0 8.5	based on risk) 415.0 200.0	Adj ROE 11.0% 9.6%		



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Benefits of Risk - Adjusted Metrics

- More than just ratemaking.....benefits to ERM .
- Assessing opital adequacy Understand source of the risk within XYZ, is XYZ holding enough capital...etc. Setting risk management priorities

- Setting risk management priorities
 Help identify where to apply risk mitigation strategies and which segments are using the most capital.
 Evaluating alternative risk management strategies
 Can see what the risk adjusted ROE is before and after a risk management strategy to determine the impact.
 Risk-adjusted performance measurement
 - More fairly compares business segments with different risk levels or capital consumption.

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Considerations

- Risk needs to be considered in either the numerator or denominator.
- Many different methods/approaches exist.
 - RORAC, RAROC, EVA, IRR, ROE...etc. - All have advantages and disadvantages.
 - Find what works for your company.
 - - · Does it drive the results and BEHAVIORS you want. o Very powerful if underwriting understands and buys into it. · Complicated is not always the best option.
- Rating agencies and regulators.

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