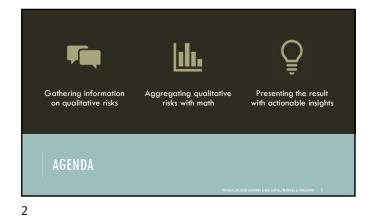
MATHEMATICAL QUANTIFICATION OF OPERATIONAL & STRATEGIC RISKS Overcome cognitive biases to quantitatively model enterprise risks Carol Williams, Strategic Decision Solutions Ugee Kang, UAK Capital Strategies & Consulting









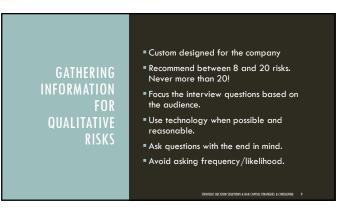


Strategic and Operational Risk Versus Underwriting and Investment Risk









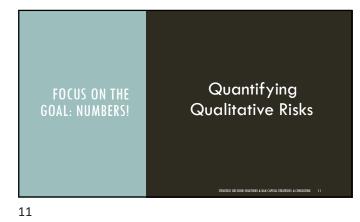
HELPING PEOPLE A better way... Ask: IMPROVED

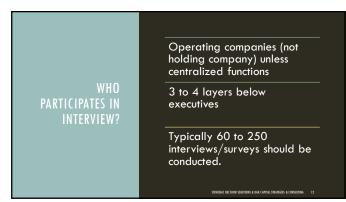
What typically happens... * Ask: What is the probability of a flat tire happening over the next week or the next year? Interviewee: WILL struggle in his/her mind. Then...

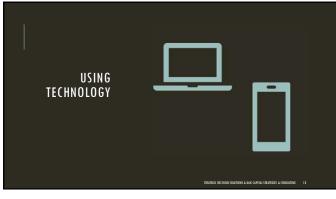
 How many flat or deflating tires have you had in your lifetime? [3 times] How many years have you been driving your car?
 [20 years]

C DECISION SOLUTIONS & UAK CAPITAL STRATEGIES & CONSULTING

• Then you calculate probability: * $\frac{3}{20} \approx 15\%$ in any given year $\rightarrow \frac{15\%}{304} \approx 0.05\%$ in any given day.







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AN ALTERNATIVE TO FACE TO FACE INTERVIEWS

Strategic Risk: Competitor

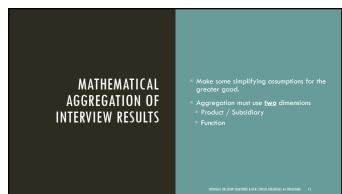
Definition: Unexpected change in competitive landscape, such as new entrants, aggressive competitor actions against the company, price wars, and so forth.*

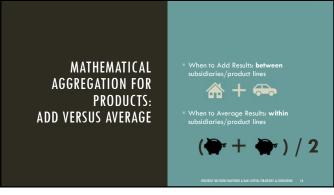
Interview Questions?

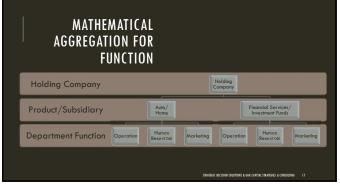
Regarding this risk, what was the worst annual loss amount within the last 4 (and 10) years in todays scale and scope?

Within the next 1 year, what do you expect loss amount [acceptable risk that you are willing to take, unacceptable risk, only in theory and unrealistic] would be?

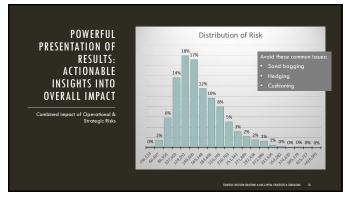
* Sim Segal's Corporate Value of Enterprise Risk Management (2011)







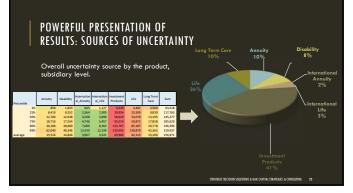
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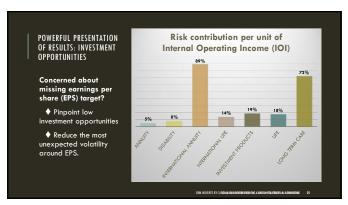


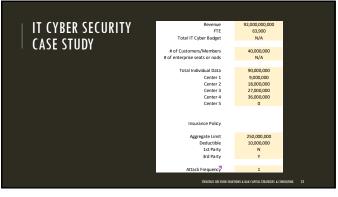


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