



Aon Risk Solutions
Global Risk Consulting

Finding the Right Retention

December 2015

Risk. Reinsurance. Human Resources

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Panelists:

Kevin Malbon, Associate Director
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Zoë Rico, FCAS, MAAA, Regional Director & Actuary
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Wendell Ferrell, Senior Director Risk Management
Avery Dennison

Agenda

- Captive Risk Categories and the Financing Decision Framework including;
 - Program Types, the Decision Process, Portfolio Effect and Monte Carlo Simulation
- Factors that influence Retention Levels including a Retention Analysis Example
- Worldwide Risk Insurance – Background and Case Study on Avery Dennison’s Captive

Captive Risk Categories and the Financing Decision Framework

Captive Risk Categories

Risk Financing Decision Framework

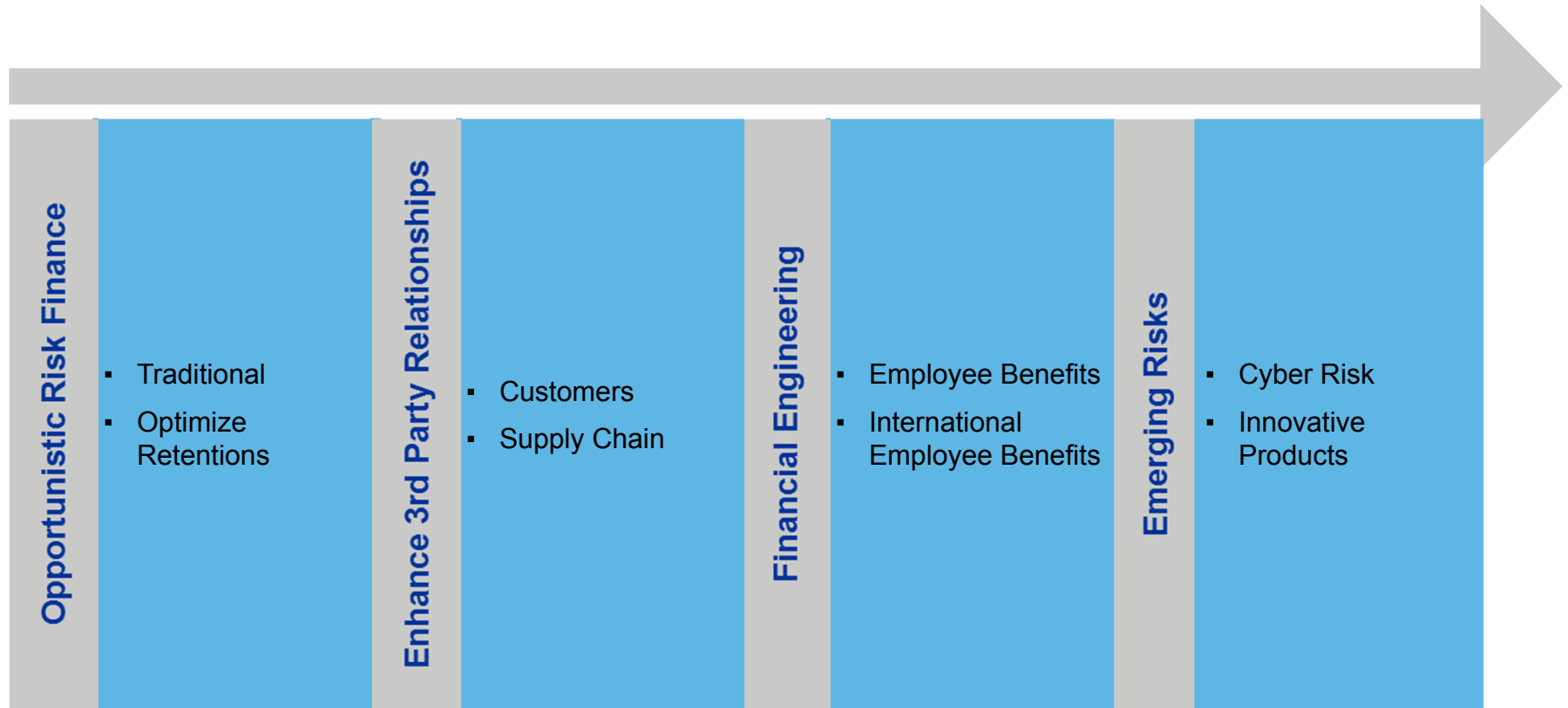
Program Types

Risk Retention Decision Process

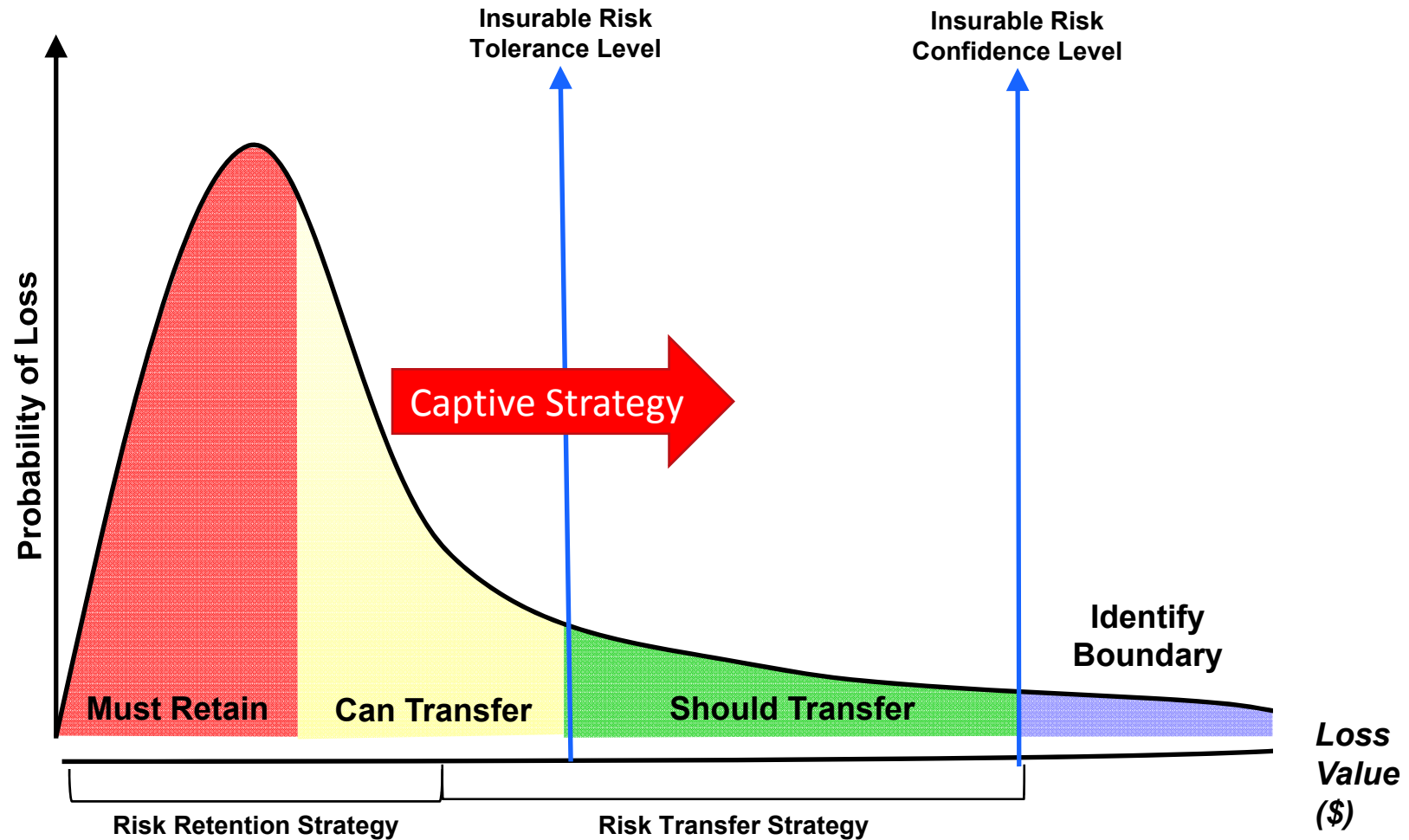
Portfolio Effect

Monte Carlo Simulation

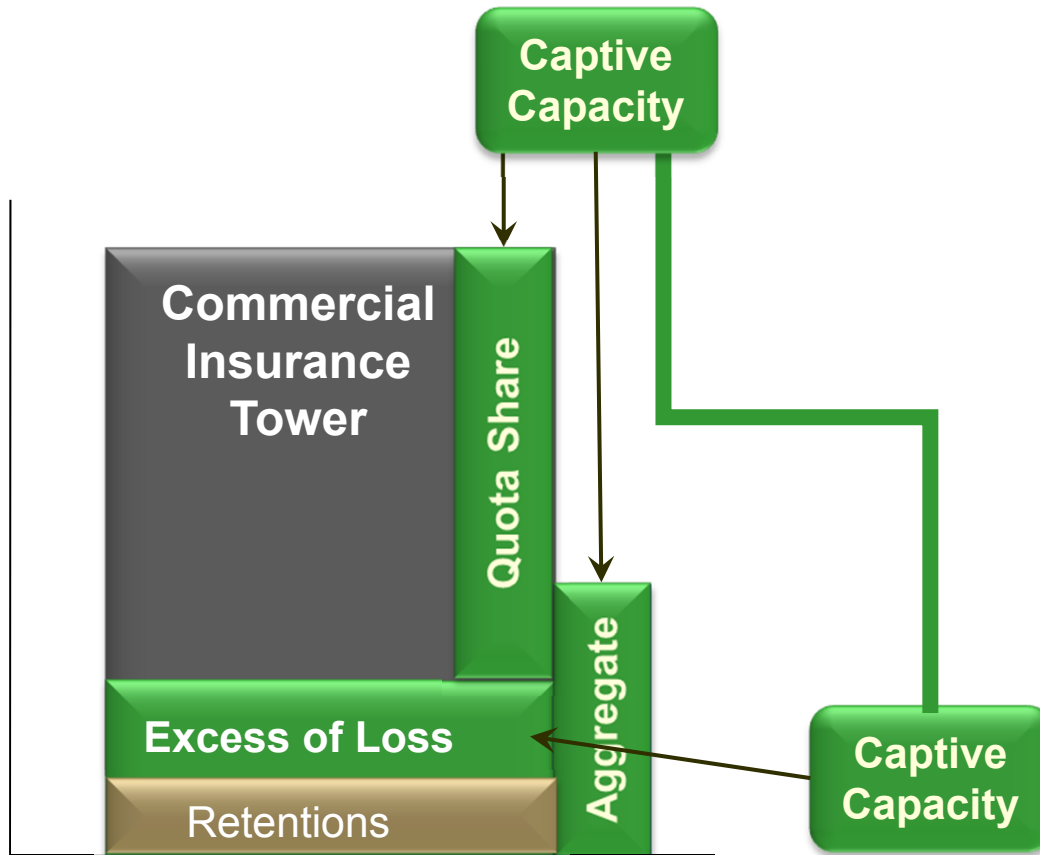
Captive Risk Categories



Risk Finance Decision Framework

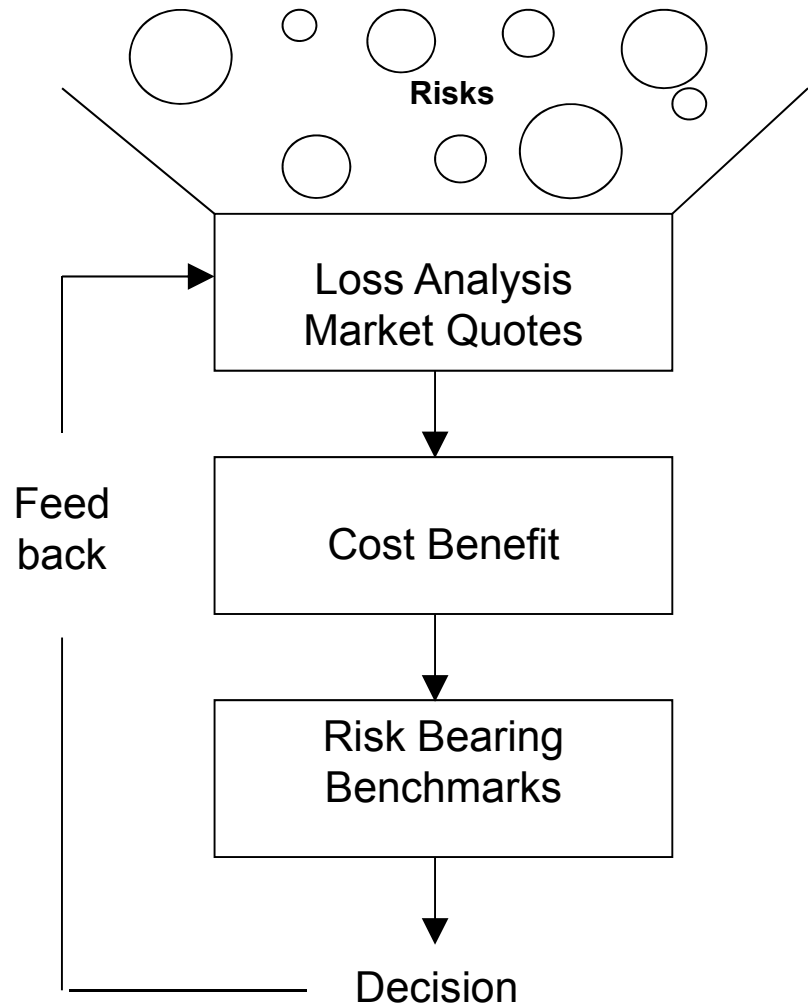


Captive Structures: Program Types



- Excess of Loss
 - example: \$500,000 excess of \$500,000 per claim
- Quota Share
 - example: 20% of losses up to \$10,000,000 per claim
 - Aggregate Stop-Loss
 - example: 100% of losses in excess of \$5M aggregate retention

Risk Retention Decision Process



Risk

- Identification
- Exposure
- Losses – yours or others

Analysis

- Loss modeling – individual & portfolio
- Risk transfer market view

Evaluation

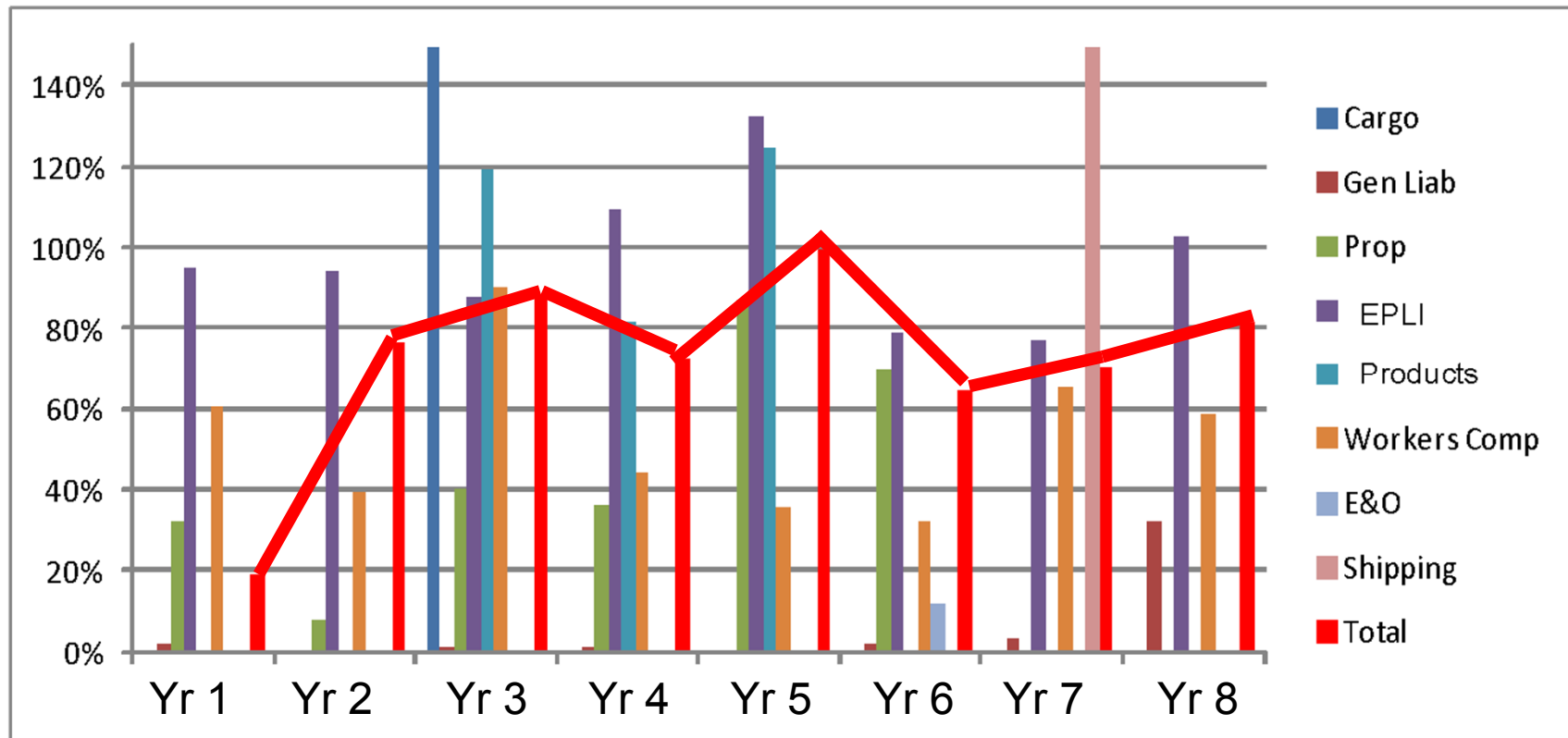
- Risk/Reward tradeoff
- Asymmetry of information

What if?

- Impact on financial goals
- Career changing
- What are others doing?

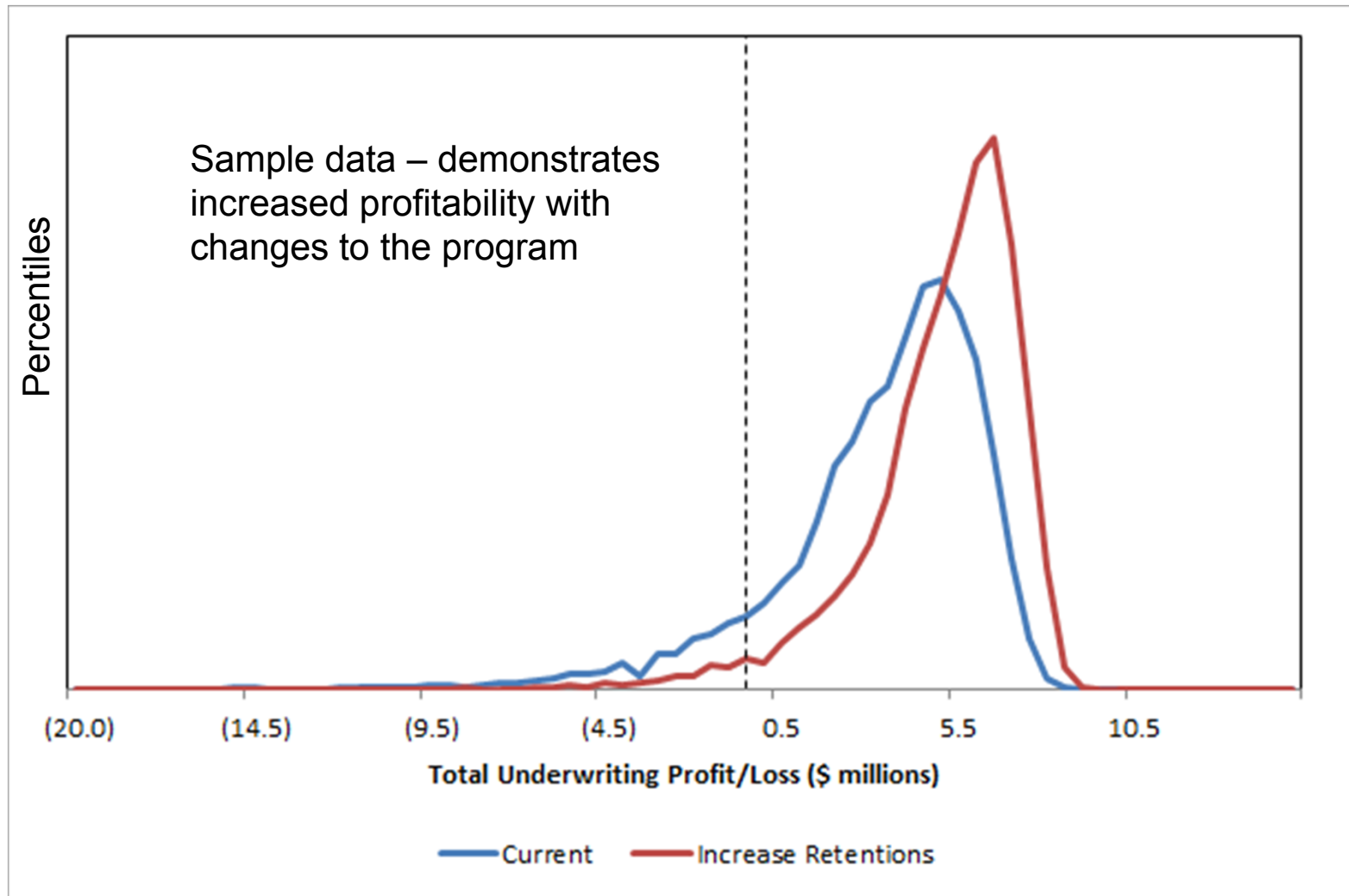
Decide and review

Loss Ratio – Portfolio Effect



Individually the coverages or business units are very volatile, however, collectively the variations tend to offset providing more stable overall results

Use of Monte Carlo Simulation



Factors Influencing Retention Levels

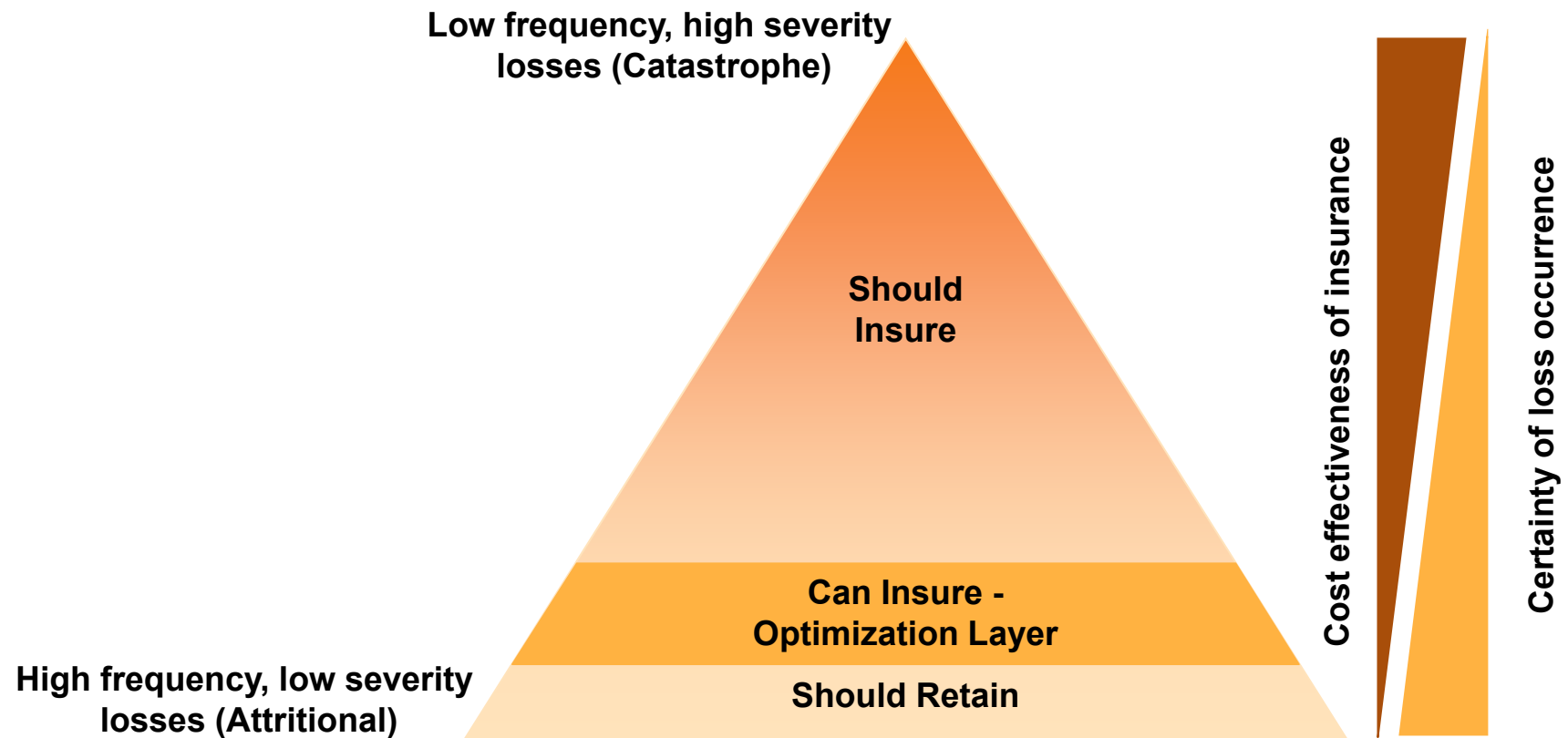
Cost

Risk Tolerance

Loss Variability

Capital

Cost of Reinsurance/Insurance and Risk Tolerance



Loss Variability

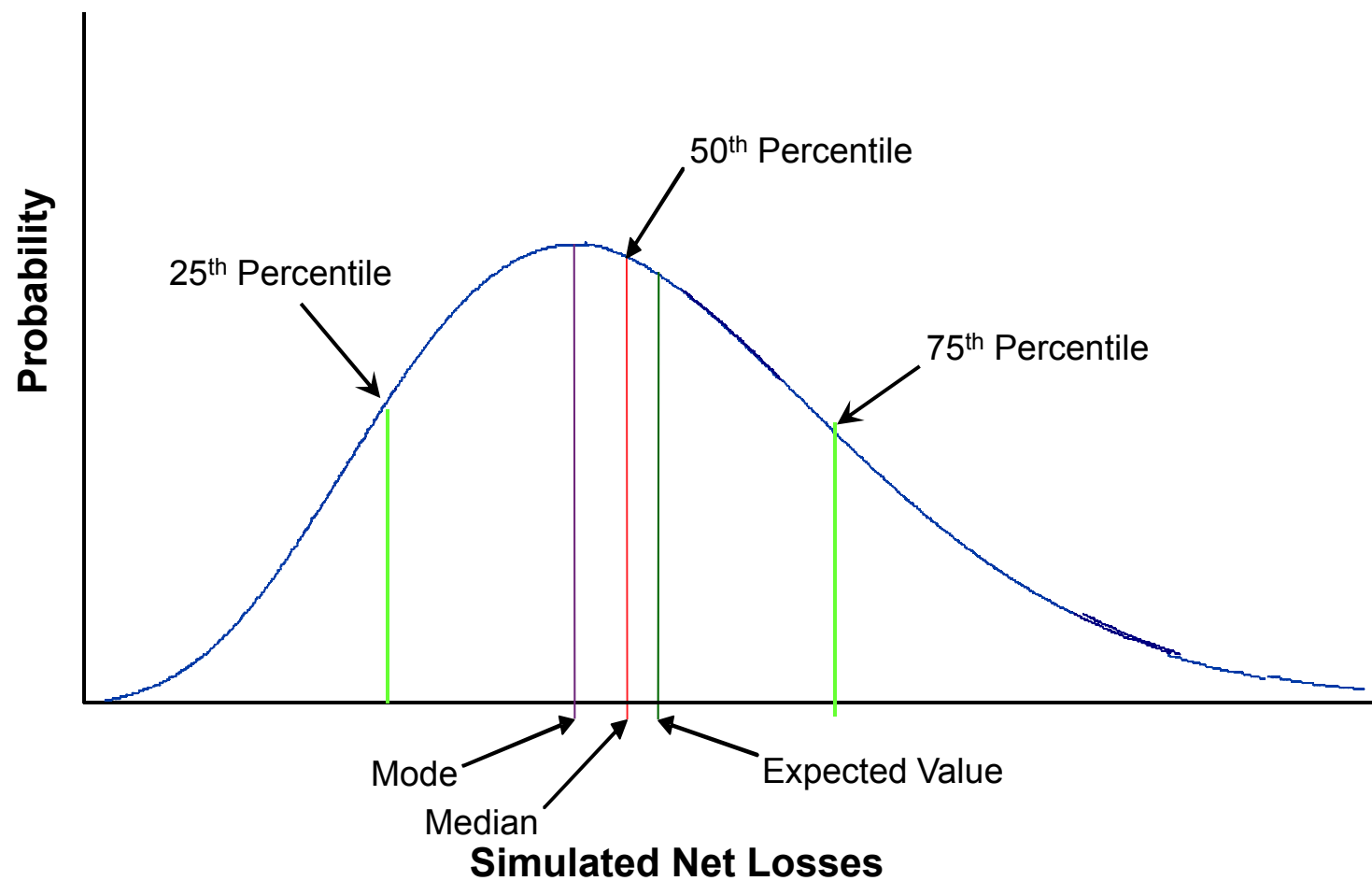
Three Sources of Variability

Random nature of the insurance claims process, i.e., variation from the “expected” loss.

Uncertainty in the measurement of “expected” losses, i.e., model will not exactly fit reality

Unanticipated unusual events, i.e., events not in the historical data

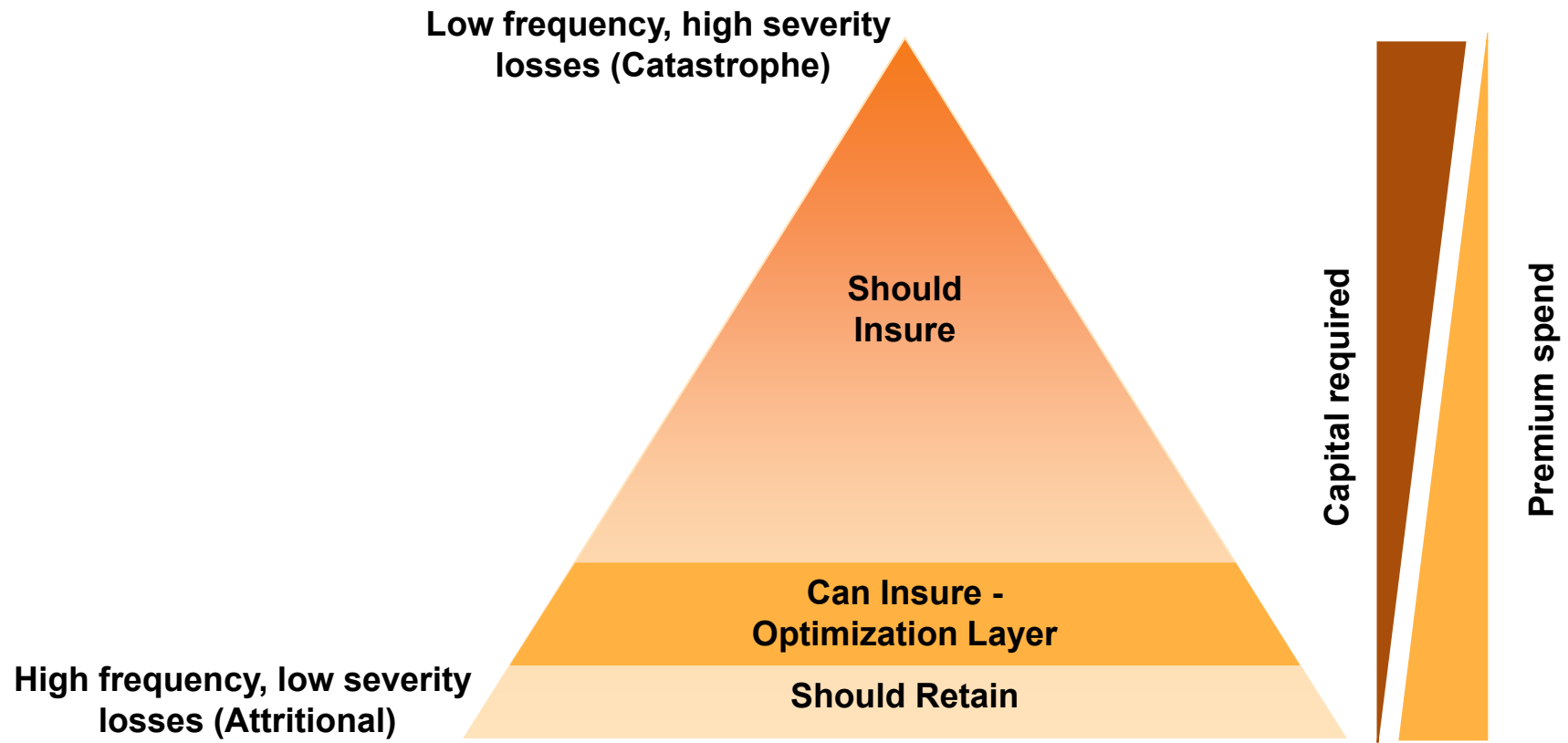
Sample: Resulting Loss Distribution



Loss Variability (continued)

- Limited historical data may not be representative of all future events
- Recognize that you may not be able to model all of the risks, such as the following unanticipated or unusual events:
 - “Shock” losses
 - Catastrophes
 - Unanticipated court decisions
 - Law changes

Capital



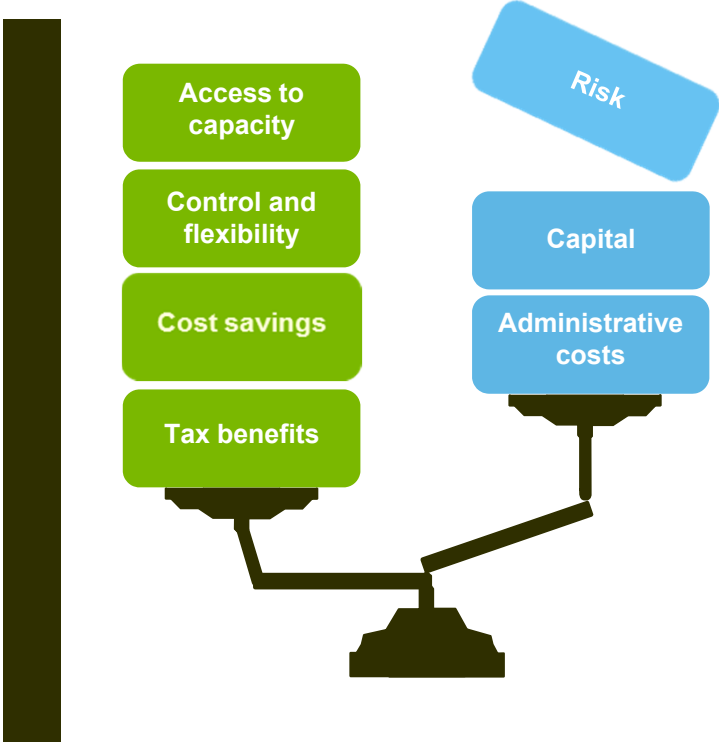
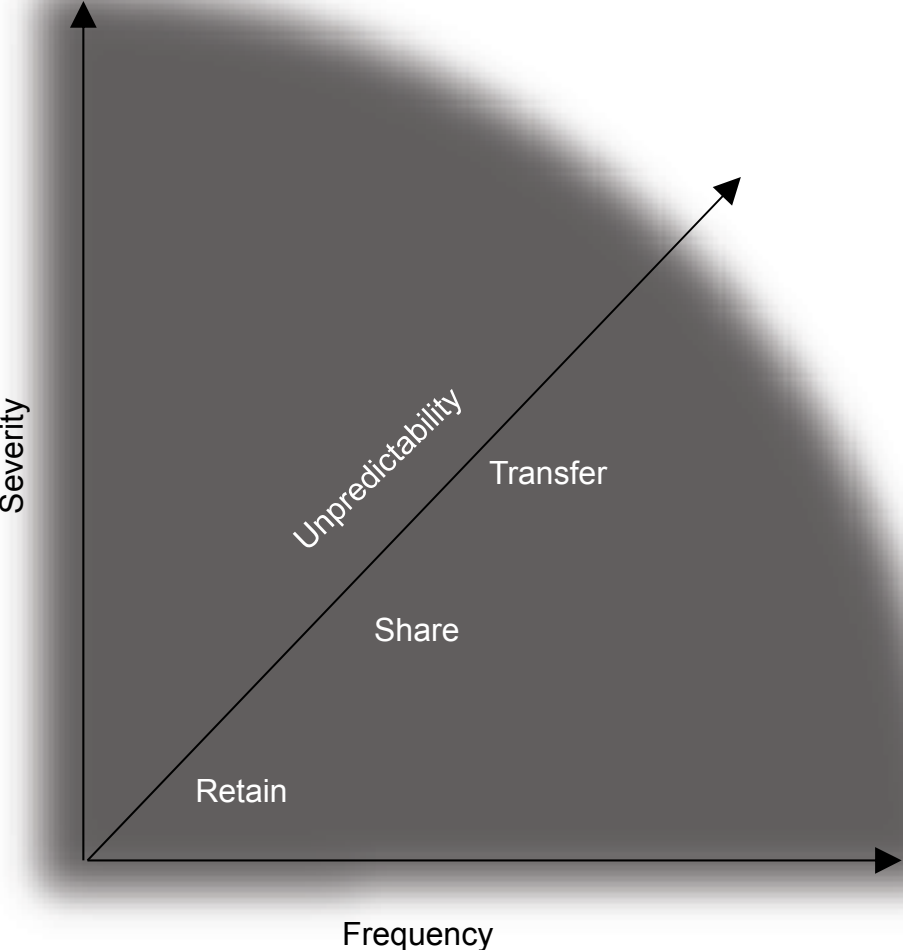
Case Study

Worldwide Risk Insurance

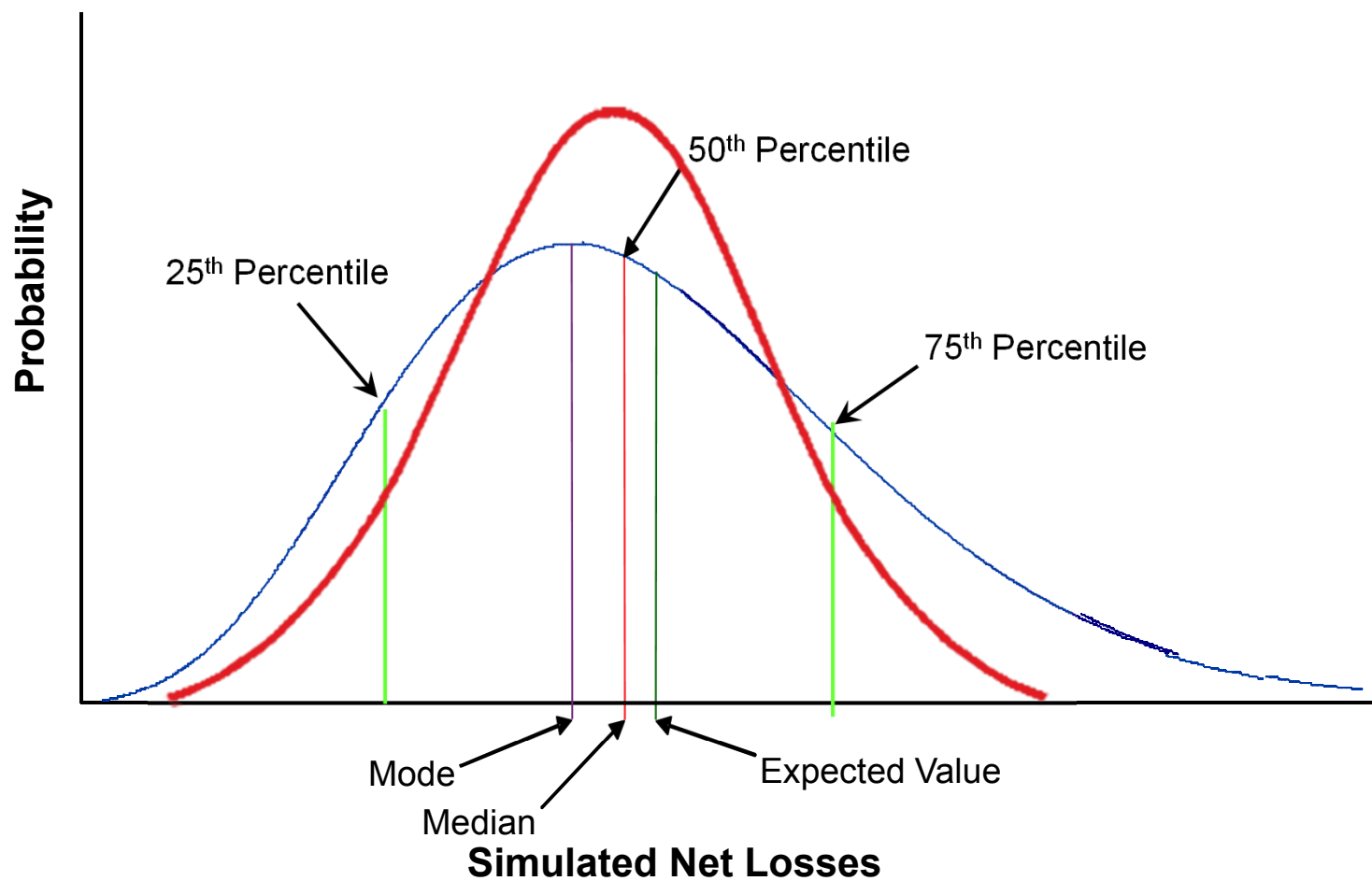
Worldwide Risk Insurance (WRI) Background

- WRI was formed in 2005 to provide a funding vehicle for Avery Dennison's (AVY) retained risk
- WRI provides AVY operations with two types of protection:
 - Budget Certainty by “ground up” funding:
 - Gap protection by covering the difference between operational retention and optimal insurance market attachment:
- As a result AVY:
 - AVY has reduced its ongoing risk cost
 - AVY is also able to exert significant control over claims resolution and loss control services

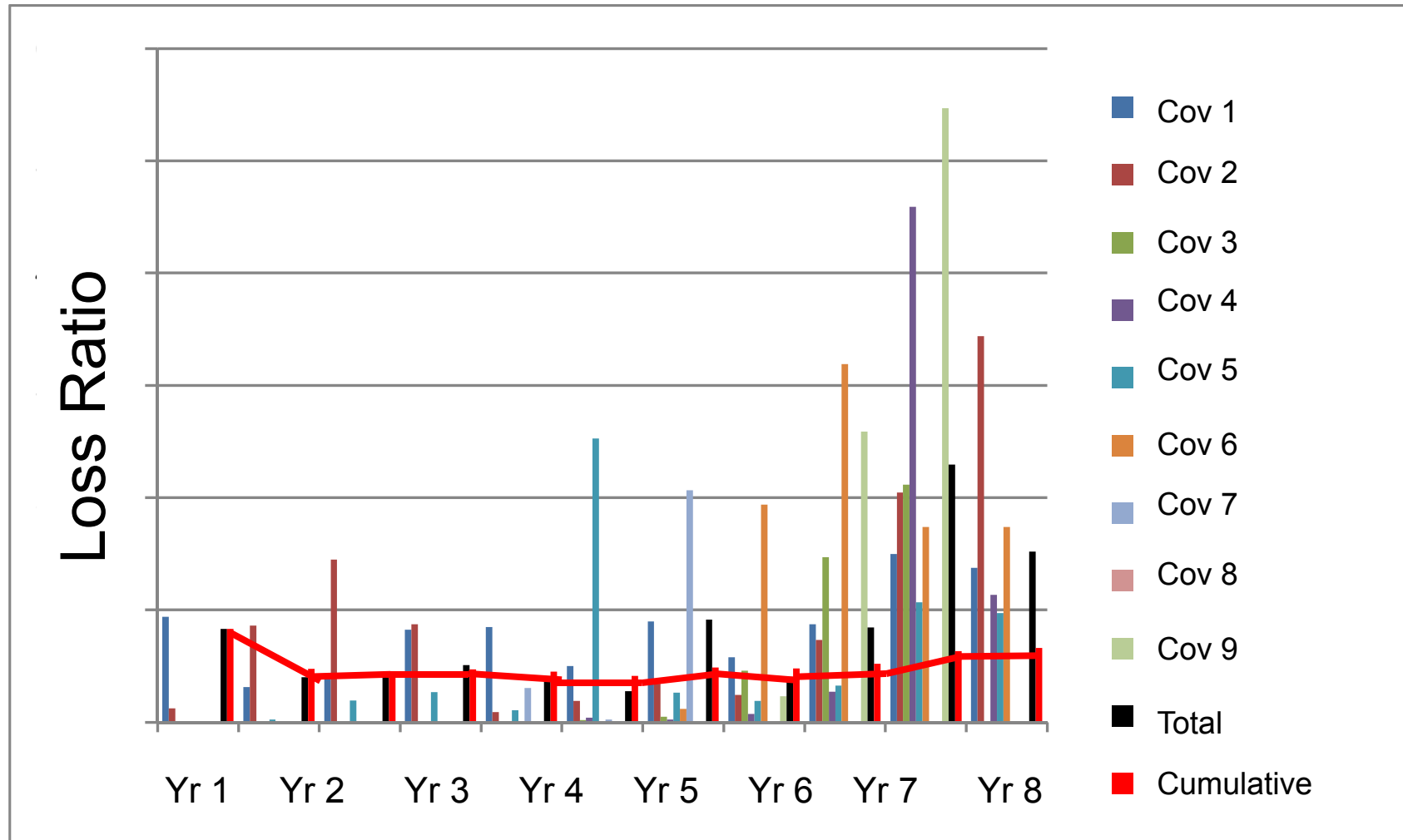
Deciding what to keep, what to transfer



Sample: Resulting Loss Distribution



Loss Ratio – Portfolio Effect



Questions?

