

MANAGING EXTREMES **Willis Re** STRUCTURED REINSURANCE REFRESHER


CARe Seminar 2015, Philadelphia
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AGENDA **Willis Re** MANAGING EXTREMES

Why structured reinsurance?
What makes it "structured"?
Some things to consider
Examples



Why structured reinsurance?

- Risk tranching
- Efficiency
- Bridging expectation gaps
- Only tool available
- When the old solutions don't fit

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Capital Alternatives

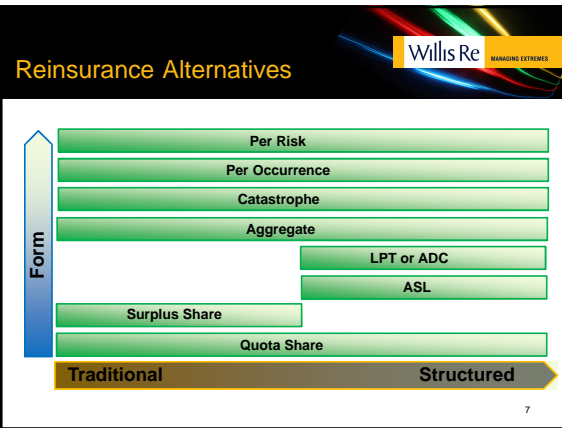
- Management has a spectrum of alternatives to choose from when capitalizing an enterprise
- Not just form, but term, conditions, etc.
- For insurance companies, reinsurance is often viewed as a capital substitute.

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Reinsurance Alternatives

- Same choice applies to reinsurance, but closest capital analogy is not with respect to form.
- Funding alternatives differ by degree of participation in the risk of the entity
- Structured reinsurance adds this dimension

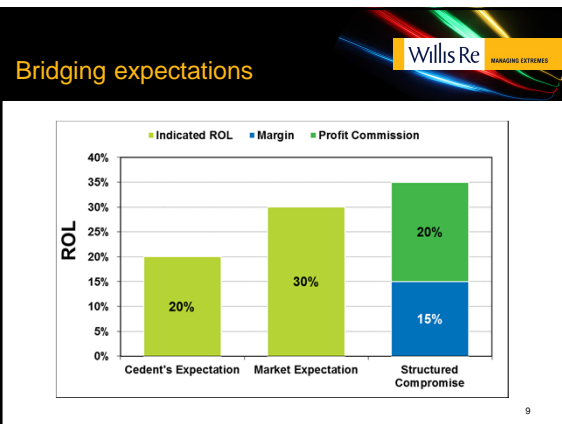
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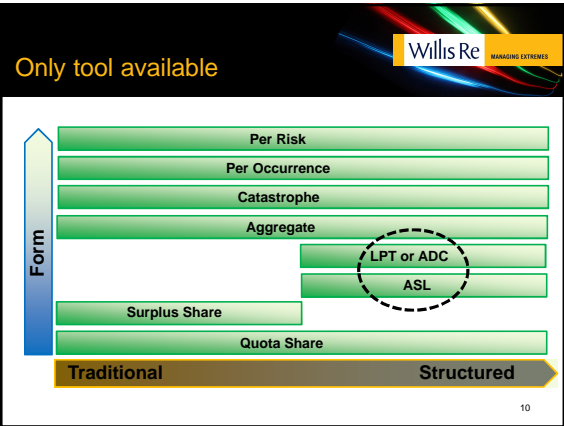


Reinsurance Alternatives

	Efficiency	Earnings Volatility	Capital management	Other
Rationale / Client motivation	<ul style="list-style-type: none"> Budget Less swapping Optimization – buy only what you need 	<ul style="list-style-type: none"> Avoid surprises Secure low funding costs for future growth Stabilize RJL expenses 	<ul style="list-style-type: none"> Reduce risk capital requirements Support share buy-backs Enable M&A activities 	<ul style="list-style-type: none"> Reserve increases, bad winters, retrocession covers, growth strategy, ... Customized features
Possible Solutions	<ul style="list-style-type: none"> Introduce AAD Multi-line top-layers (short-tail or long-tail) Multi-line bundlers or aggregates or Top and Drops, Top and Gaps. 	<ul style="list-style-type: none"> Multi-line aggregates, 2nd / 3rd event covers Quarterly protections Double trigger (u/w) based solutions Overall aggregate covers 	<ul style="list-style-type: none"> Multi-year Nat Cat top-layer or QS Multi-year structured QS Loss portfolio transfers / ADCs Combination of QS and Cat Aggregates 	<ul style="list-style-type: none"> Client specific demand driven solutions LPT/ADC/QS package Combination ILW and Cat Aggregate ILS-Reinsurance Combo

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What makes it "structured"?

- A discussion of the general characteristics of these transactions

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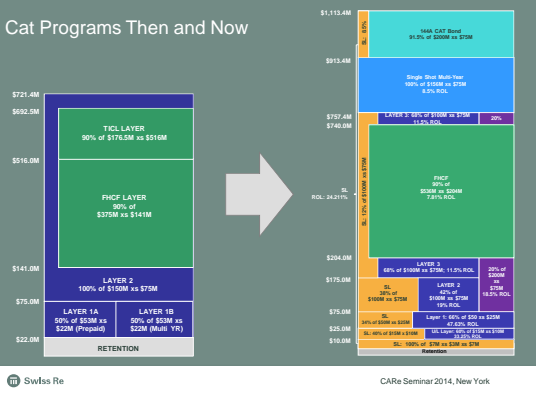
"Structured Re" is NOT a Product



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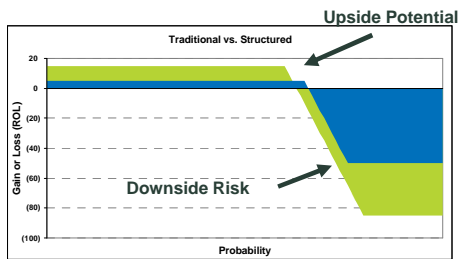
Cat Programs Then and Now



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Spectrum of Cost/Risk Combinations



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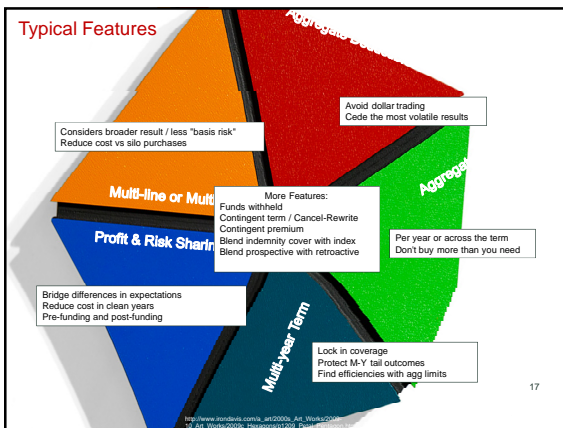
Seeking efficiencies by blending risks



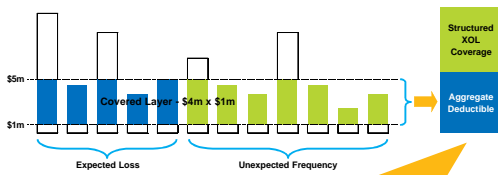
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Typical Features



AAD



Structured covers can be designed to address spikes in frequency and avoid dollar trading of expected losses. To do this an annual aggregate deductible is selected at a level of loss in the layer that the Company is comfortable retaining. Losses within this deductible are retained and losses above are ceded.

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Some things to consider

- Assessing the soundness of the structure
- Risk Transfer – refresher

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Assessing the soundness of the structure

What is driving the purchase?
Have we considered all stakeholders?
Why this alternative?

Any regulatory, accounting, or tax issues?
Does buyer need surplus relief or surplus?
Is regulator/auditor aware?
Pass the WSJ test?

Are the incentives correct in all possible scenarios?
Do we suffer and celebrate together?
Have we tested robustness of model/assumptions?

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Risk transfer testing

Highly Structured

- Passes 10/10 – Loss at 90th percentile

High Frequency/Low Severity

- Fails 10/10 – Loss at 90th percentile less than 10%

Low Frequency/High Severity

- Fails 10/10 – No loss at 90th percentile

All three would pass ERD

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Traditional Quota Shares

- Traditional quota share contracts put the reinsurer in an equal relationship with the cedant
 - Flat ceding commission
 - Reinsurer shares in the results with the cedant
- Traditional quota shares represent an economic partnership between the cedant and reinsurer and may require significant due diligence depending on the nature of the business reinsured and the amount of risk assumed

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Surplus Relief Quota Shares

- What if you're just seeking surplus relief rather than an economic partner?
- Surplus Relief Quota Shares are designed to:
 - Provide the required surplus relief to the cedant
 - Allow the cedant to share in the profit of the ceded business if results are favorable

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ASL

- An Aggregate Stop Loss (ASL) is a prospective reinsurance structure that can:
 - Protect against surplus loss
 - Reduce earnings volatility
 - Manage retentions
- ASLs attach and provide coverage based on the cedant's overall net loss ratio
- All other reinsurance programs; per risk coverage, excess of loss coverage, etc., inure to the benefit of the ASL

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ASL

- ASLs can cover single or multiple lines
- Single-line covers (e.g., WC only) are best at addressing specific concerns and are the easiest to execute
- Multi-line or "Whole Account" ASLs are better at addressing general concerns (e.g., earnings volatility, surplus loss) and offer several advantages
 - If the covered lines are non- or only weakly correlated the diversification benefit can reduce the cost of coverage
 - Allows sharing of coverage between lines so less limit is required

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ASL parameters

ASL Coverage

Attaches at the 90th percentile and provides coverage through the 96th.

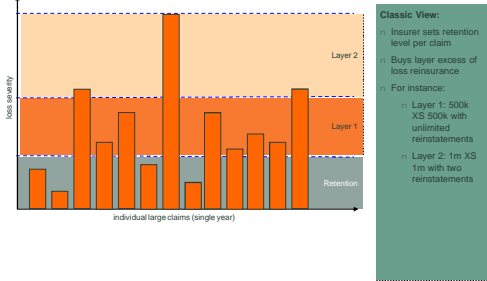
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112.5% LR

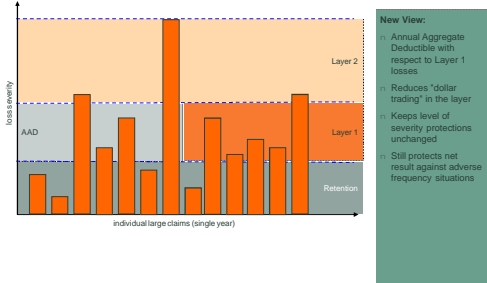
Retained Ceded Excess

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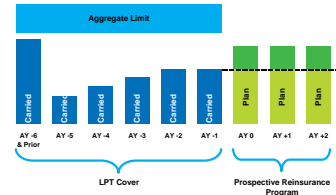
First Layer Frequency Cover:
Manage sideways exposure to frequency losses



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Manage sideways exposure to frequency losses

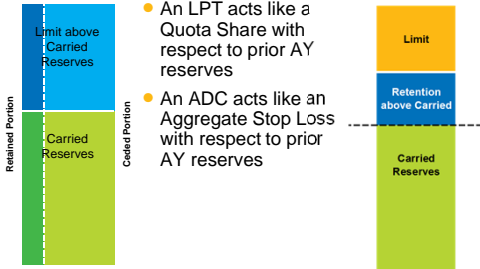


Retroactive covers



- Loss Portfolio Transfers ("LPTs") and Adverse Development Covers ("ADCs") are *retroactive* reinsurance covers—they provide protection against losses that have already occurred
- Used by companies exiting a line of business or geographic region to provide a degree of closure and assurance to stakeholders regarding future results

Retroactive covers



- An LPT acts like a Quota Share with respect to prior AY reserves
- An ADC acts like an Aggregate Stop Loss with respect to prior AY reserves

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Questions?
