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2022 Schedule P Reserve Analysis

Adam Carvalho | May 8th, 2023

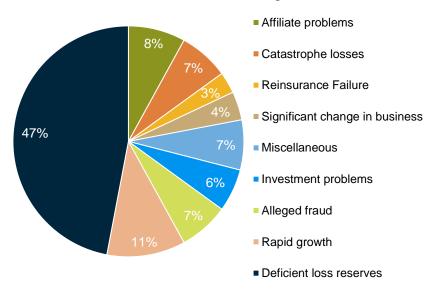




Casualty Market: Threat Assessment

Putting long-tail classes into context on the risk hierarchy

Cause of Financial Impairment





P&C IMPAIRMENTS

47% of P&C financial impairments are caused by deficiency in loss reserves from casualty



RISK MANAGEMENT

Industry and regulatory focus overwhelmingly tilted towards property cat given liquidity threat



CASUALTY THREATS

Where capital models mimic solvency models, 12-month time-horizon understates casualty threats

"...remember, casualty kills insurance companies not short-tail property."

— Evan Greenberg, Chairman and CEO, Chubb Ltd. (2)



Executive Summary

- Background
- Impact of Covid-19
- Industry Reserve Positions by Line of business
- Threats to reserves going forward

Methodology for Assessing Industry Reserves



S&P GlobalMarket Intelligence

Use Standard Reserving Template to pull SNL data for 5 key lines of business:

- Commercial Auto Liability
- Medical Professional Liability Claims Made
- Other Liability Claims Made
- Other Liability Occurrence
- Workers' Compensation



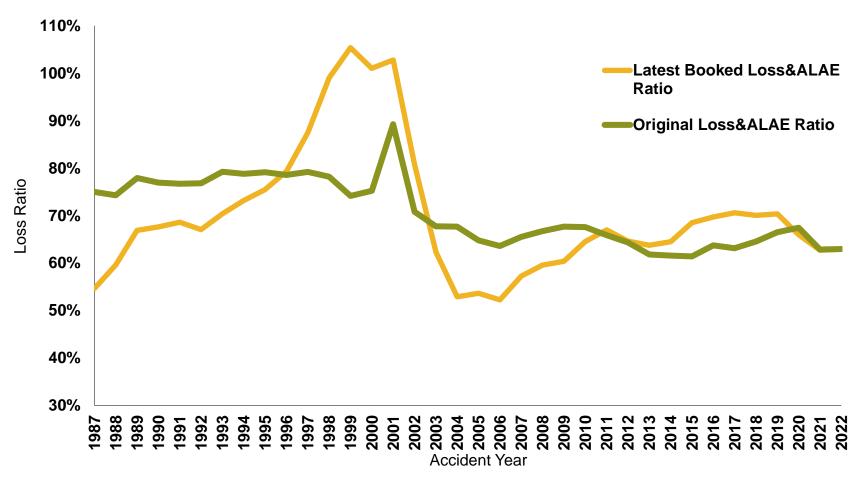
Adjustments Made to the data:

- Analyze some large companies separately since they skew industry data (AIG & Berkshire)
- Analyze triangles to detect any lag in development due to Covid
- More closely look at outlier years and underlying trends



Why look at industry reserves?

Other Liability Occurrence – Historical Loss Ratios



Initial booked loss ratios are never correct, missed loss ratios impact the pricing cycle

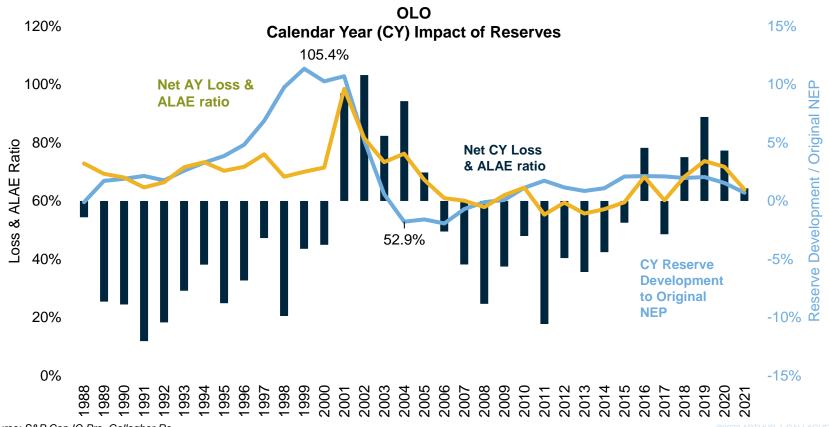


Long Tail Cycle Dynamics

Risk clustering (multi-year amplification) is a threat



- Reserving issues impact additional underwriting years reserved using the same methodology and creates clusters of accident year reserve movements that are amplified on financial year
- Good cycle management can reverse the impact so that excess reserves built during periods of peak profit help reduce volatility through soft market



Additional considerations when estimating industry reserves





What is the impact on the line due to Covid -19?



Has the line had any significant rate changes?



Has the line been affected by any systemic increases in losses?



Evidence of Covid-19 Lag

Other Liability Occurrence

Paid Loss Development Factors

	· - · · · · · · · · · · · · · · · · · ·								
Accident Year	12 - 24 Months	24 - 36 Months	36 - 48 Months	48 - 60 Months	60 - 72 Months	72 - 84 Months	84 - 96 Months	96 - 108 Months	108 - 120 Months
2009	2.0426	1.5575	1.3514	1.2072	1.1165	1.0696	1.0601	1.0391	1.0278
2010	2.3770	1.7263	1.3663	1.2295	1.1116	1.0856	1.0689	1.0340	1.0100
2011	2.5132	1.6935	1.4033	1.2509	1.1467	1.0867	1.0571	1.0019	1.0219
2012	2.5445	1.7113	1.4246	1.2293	1.1852	1.0781	1.0500	1.0234	1.0170
2013	3.0979	1.8533	1.4241	1.2939	1.1320	1.0709	1.0422	1.0205	1.0240
2014	2.5253	1.7329	1.5006	1.2341	1.1002	1.0658	1.0340	1.0336	
2015	2.7396	1.8301	1.4549	1 2172	1.1134	1.0584	1.0464		
2016	2.7448	1.7680	1.4529	1.2067	1.1132	1.1110			
2017	2.8442	1.7200	1.4193	1.2171	1.1814				
2018	2.0532	1.6482	1.3565	1.2880					
2019	2.4596	1.6064	1.4920						
2020	2.3477	1.7203							
2021	2.8981								

Reported

Accident Year	12 - 24 Months	24 - 36 Months	36 - 48 Months	48 - 60 Months	60 - 72 Months	72 - 84 Months	84 - 96 Months	96 - 108 Months	108 - 120 Months
2009	1.7153	1.2967	1.2024	1.1057	1.0596	1.0340	1.0332	1.0286	1.014
2010	1.7691	1.3850	1.1876	1.1082	1.0546	1.0537	1.0364	1.0201	1.002
2011	1.8138	1.3710	1.2152	1.1134	1.0733	1.0526	1.0318	1.0000	1.012
2012	1.8287	1.3961	1.2345	1.0922	1.1075	1.0399	1.0173	1.0109	1.013
2013	1.9020	1.4384	1.2155	1.1592	1.0733	1.0423	1.0134	1.0092	1.0189
2014	1.8663	1.3875	1.2617	1.1266	1.0076	1.0278	1.0205	1.0220	
2015	1.9016	1.4692	1.2527	1 1333	1.0508	1.0340	1.0322		
2016	1.9170	1.4133	1 2550	1.1100	1.0655	1.0661			
2017	2.0862	1.4300	1.1874	1.1299	1.1097				
2018	1.0420	1.3833	1.2217	1.1736					
2019	1.8564	1.3779	1.2826						
2020	1.8519	1.4409							
2021	2.1022								

2020 and 2021 had favorable development, with a catch up in 2022 diagonal

Methodology for estimating slowdown due to Covid-19



Older Years

Compare the cumulative loss development from Calendar years 2020 - 2022 to historical averages

	Age	to Age Fa	ctor		
				Total	
	12 - 24	24 - 36	36 - 48	Development La	g
5 year xLast	1.07	1.04	1.02	1.138	_
2016	1.05	1.03	1.03	1.121 -	1.47%

Since the cumulative value of 2016 development is greater than historical averages we can conclude that that year is showing lag

2020 and 2021

We need to compare on-leveled Incurred Loss ratios since there is not sufficient loss development history to compare

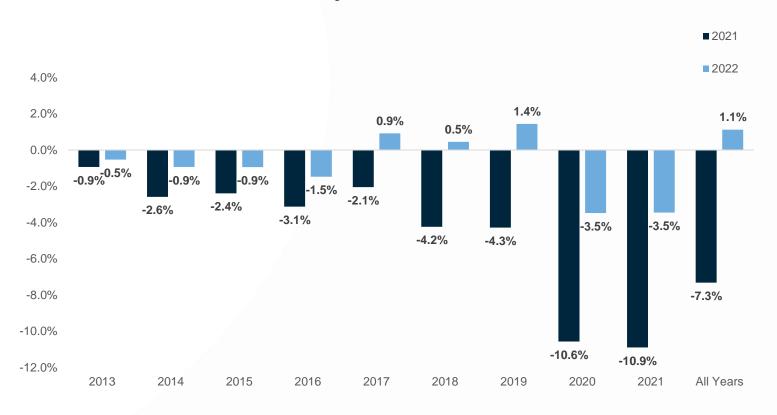


2021's Onlevel loss ratio is 3.5% below the 5 year historical onleveled loss ratio



How has the lag in reported loss changed?

Measured Anomaly due to Covid-19 OL-OCC





Other Liability Occurrence





Industry Loss Reserves

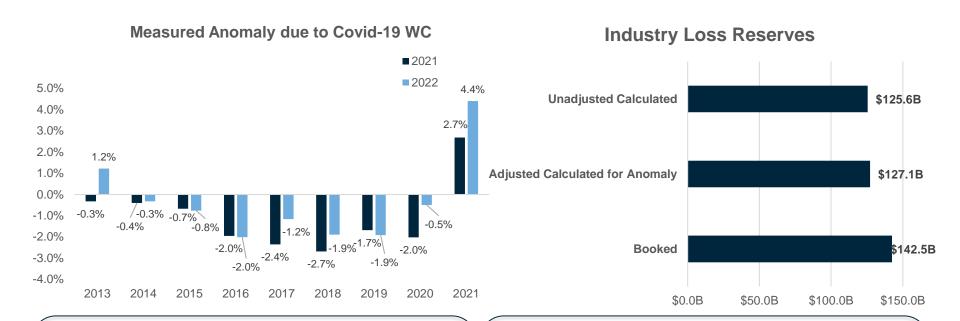


Court closures slowed the reporting of losses in 2020 and 2021. The decrease in reported losses reversed course over the past year, with all years speeding up from our 2021 indication.

Our indications were adjusted up by 1.5B to compensate for covid lag, resulting in an estimated industry reserve deficiency of 3.8B.



Workers' Compensation

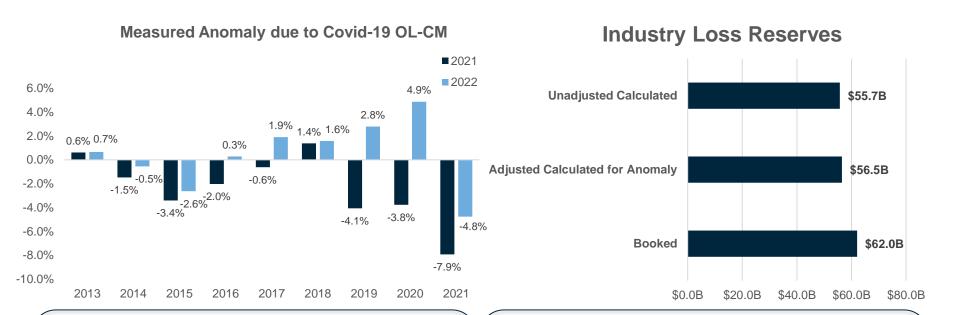


The lag has slowed for Workers' Comp. We also recognize that this could also be favorable development on this line of business.

The difference between Industry Booked Reserves and Adjusted Calculated for Anomaly is \$16B showing a strong reserve position that the industry has



Other Liability - Claims Made

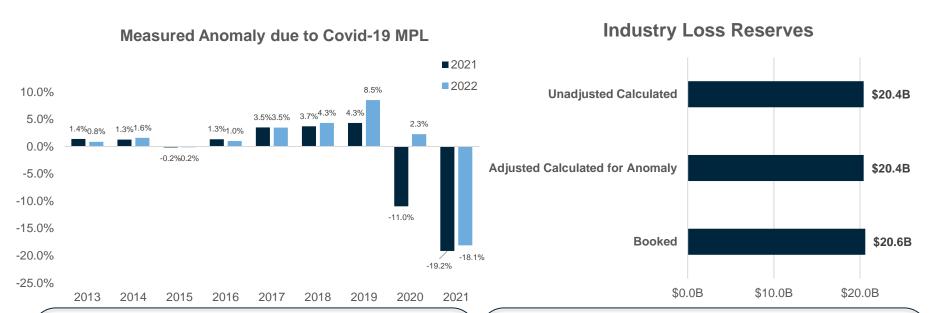


There has been a catch up on all years from the slowdown witnessed in 2021.

The Industry Booked reserves are redundant by 5.5B, mainly driven by the latest few years, which have experienced significantly high rate changes



Medical Professional Claims Made



No slowdown indicated for 2020 and prior. 2021 still shows slowdown however it is developing like 2022.

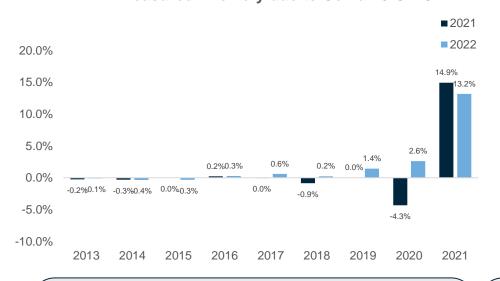
The Industry Booked Reserves are in line with our calculated reserves. We removed Berkshire Hathaway from the data set as it showed a \$1.8B redundancy.

Analysis of reserves excludes Berkshire Hathaway which had a \$1.8B redundancy



Commercial Auto Liability

Measured Anomaly due to Covid-19 OL-CAL



Industry Loss Reserves



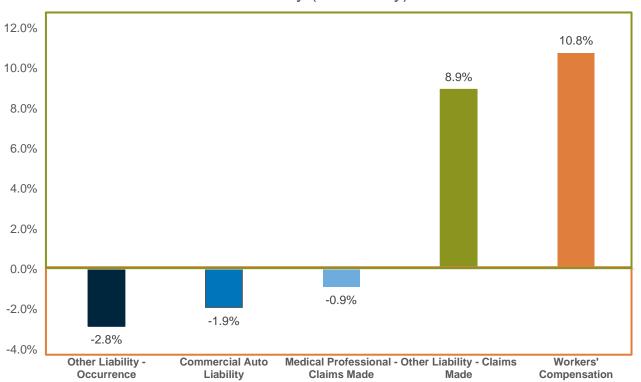
No slowdown indicated in Commercial Auto. This line is battling elevated vehicle, parts and labor costs.

The Industry Booked Reserves are slightly lower than the Calculated Adjusted amount, indicating a \$1B deficiency



Summary of Industry Reserve Positions

Redundancy/(Deficiency) % of Reserves



Redundancy

Deficiency

Potential Threats as a result of Covid-19 (Med Mal Example)



 Claim backlog, open ratio is well above historical averages for accident years 2019 and Prior

Open Ratio (Open Claims/ Report	ed Claims)								
-	12	24	36	48	60	72	84	96	108	120
2013	56%	31%	18%	10%	6%	5%	3%	2%	2%	2%
2014	60%	33%	17%	11%	7%	4%	3%	3%	2%	
2015	62%	33%	21%	14%	9%	6%	5%	3%		
2016	61%	41%	24%	15%	10%	8%	6%			
2017	65%	40%	23%	16%	11%	8%				
2018	64%	36%	25%	18%	12%					
2019	61%	39%	28%	20%						
2020	59%	41%	31%							
2021	61%	39%								
2022	62%									

 Incurred claim Severity is in line with historical expectations, however if inflation starts to affect medical inflation adversely this could cause loss emergence in these older years.

Reported Claim Severity (Reported Loss/ Reported Claims)										
•	12	24	36	48	60	72	84	96	108	120
2013	22,750	36,169	39,440	37,517	37,004	39,948	40,263	40,471	41,155	38,734
2014	23,889	36,191	41,219	39,412	42,834	42,850	42,405	43,345	39,886	
2015	22,379	36,451	43,150	42,943	43,103	43,376	43,791	40,839		
2016	22,713	36,721	42,757	41,568	42,383	43,990	40,542			
2017	21,756	34,109	39,955	38,460	40,783	37,972				
2018	19,706	34,908	41,208	42,485	42,665					
2019	21,628	34,203	39,015	39,613						
2020	20,743	29,788	36,902							
2021	18,822	30,856								
2022	18,379									



Inflation Risk Models

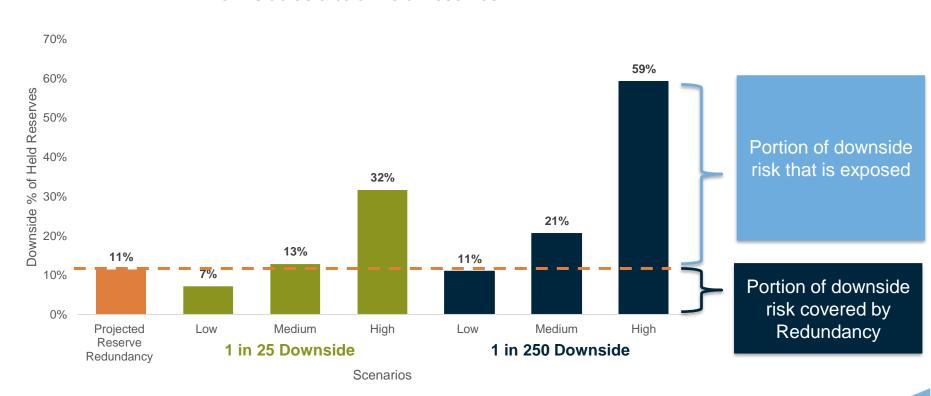
 Using Gallagher Re's proprietary inflation models we have measured the downside due to inflation using a mean inflation parameter of 4% with volatility based on the scenarios below:

Name of Model	Historical Period Basis	Range of Observed Inflation Rates
Low Variability Model Developed by Gallagher Re	1985 - Present	0% - 8.0%
Medium Variability Model Developed by Gallagher Re	1955 - Present	0% - 13.9%
High Variability Model Developed by Gallagher Re	1915 - Present	-11.0% - 19.5%



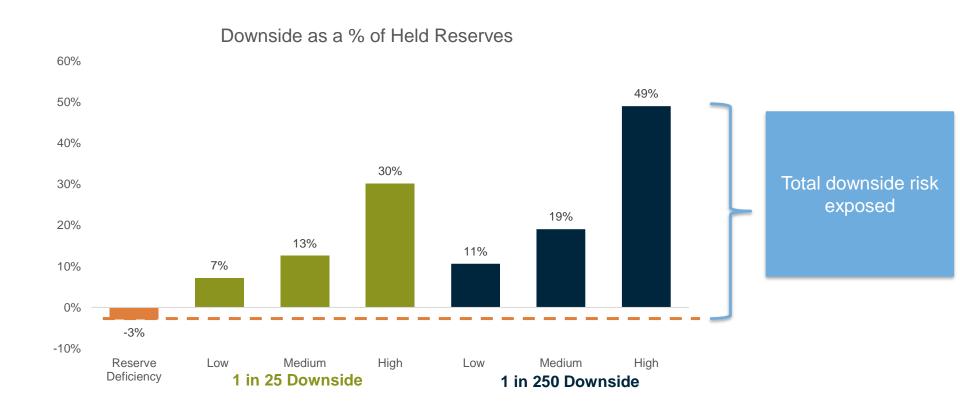
Workers Compensation

Downside as a % of Held Reserves



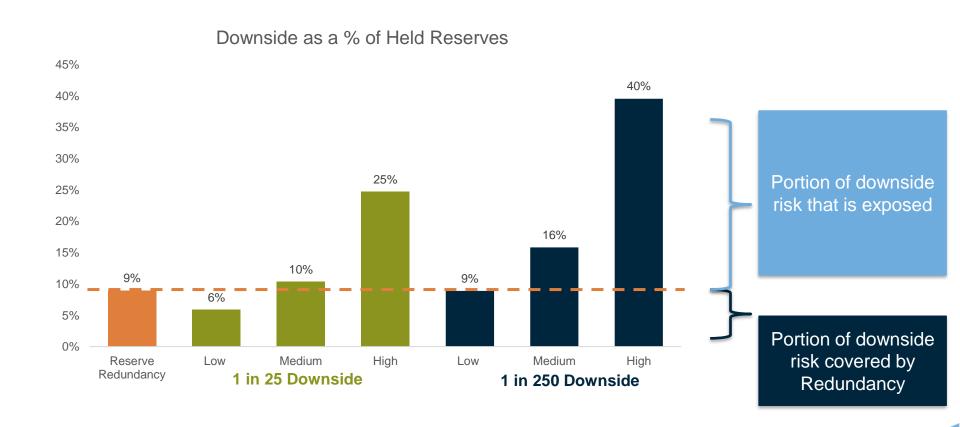


Other Liability - Occurrence



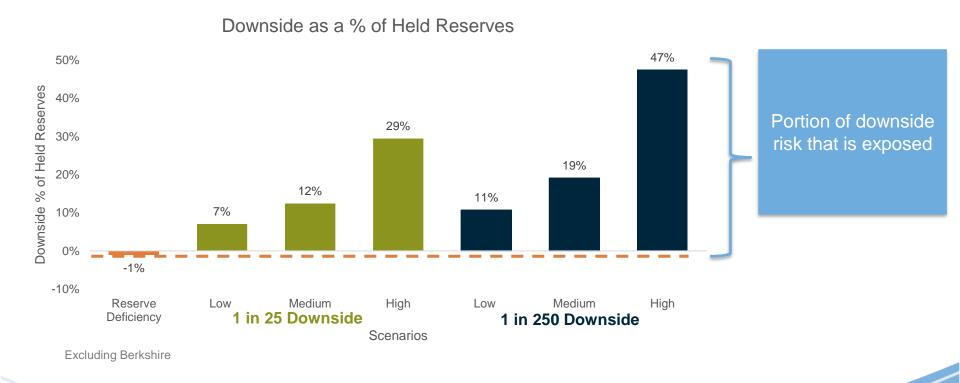


Other Liability – Claims Made



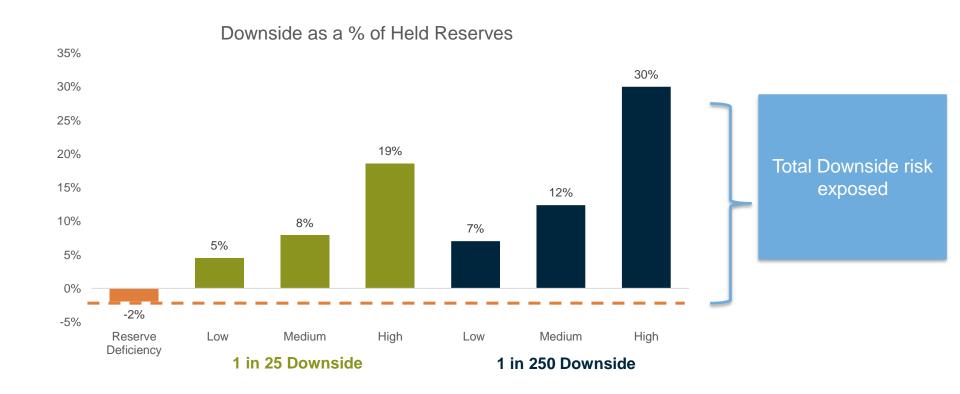
Medical Professional Liability– Claims Made







Commercial Auto Liability



Thank you!





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v23 1

CAS Spring Meeting 2023:

Managing Reserve Risk – Retrospective Reinsurance

Products, Solutions, and Market Landscape





Discussion Outline

- Current Market Conditions
- II. Products and Structural Considerations
- III. Financial and Capital Considerations
- IV. Underwriting and Pricing Considerations
- V. Conclusion Strategic Reserve Risk Management



Legacy Reinsurance – Current Market Landscape

Managing and navigating a growing and dynamic marketplace

Macro-Environment

- Inflation concerns causing reassessment of reserve uncertainty
- Holding reserves increasingly capital intensive
- Proposed S&P capital model
- Interest rates rising
- Continued emphasis on UW rather than investment float
- Industry reserve cushion seen as diminishing and moving closer to adequate levels

Reinsurers

- See US market opportunity
- Growth of specialized legacy "consolidators"
- Continued capital raising
- Claims and operational expertise
- ADC's as well as LPT's
- Rated reinsurers less active
- Increased use of collateralized security
- Requires more explicit evaluation of limit requirements, asset guidelines, and credit risk

Cedants

- Increasing cedant activity in legacy deals, disposals, as well as capital relief solutions
- Rising deal volume necessitates well run marketing process to achieve competitive pricing
- Runoff deals now regarded as an accepted strategic and capital management tool
- Address growth and ROE targets
- Refocus on current market opportunities

3



Recent Market Activity

Overview of selected recent US related deals (2019 – 2023)

Company	Туре	Details
Sirius Point - 2023	LPT	Assumed Re
QBE - 2023	LPT	Diversified Casualty 2010-2018
MS Amlin - 2023	LPT	Lloyds RITC
Aspen – 2022	LPT	PL Liability 2019 and prior
Argo - 2022	LPT	US Casualty (AY 2011-2019)
JRG - 2022	ADC (ITM)	Assumed Re (AY 2011-2020)
QBE - 2022	LPT	US E&S Casualty (AY 2016-2020)
Aspen – 2022	LPT	All lines (AY 2019 and prior)
Axa XL – 2021	ADC (ITM)	Global Casualty & PL (AY 2019 and prior)
CNA - 2021	LPT	Runoff XC WC book transfer
Aspen – 2020	ADC (ITM)	Multiple lines (AY 2019 and prior)
Hallmark - 2020	LPT	Discontinued Commercial Auto
Liberty – 2019	ADC (ITM)	WC, GL, Commercial Auto.
Zurich NA – 2019	LPT	Asbestos & Environmental.

- Capital continues to enter space
- Scale and number of transactions continue to rise every year
- Both LPT and ADC structure used
- Increasingly transfer of recent AY and not just legacy reserves
- Range of motivations from finality/exit to capital/volatility

^{*}All information based on public sources and disclosures



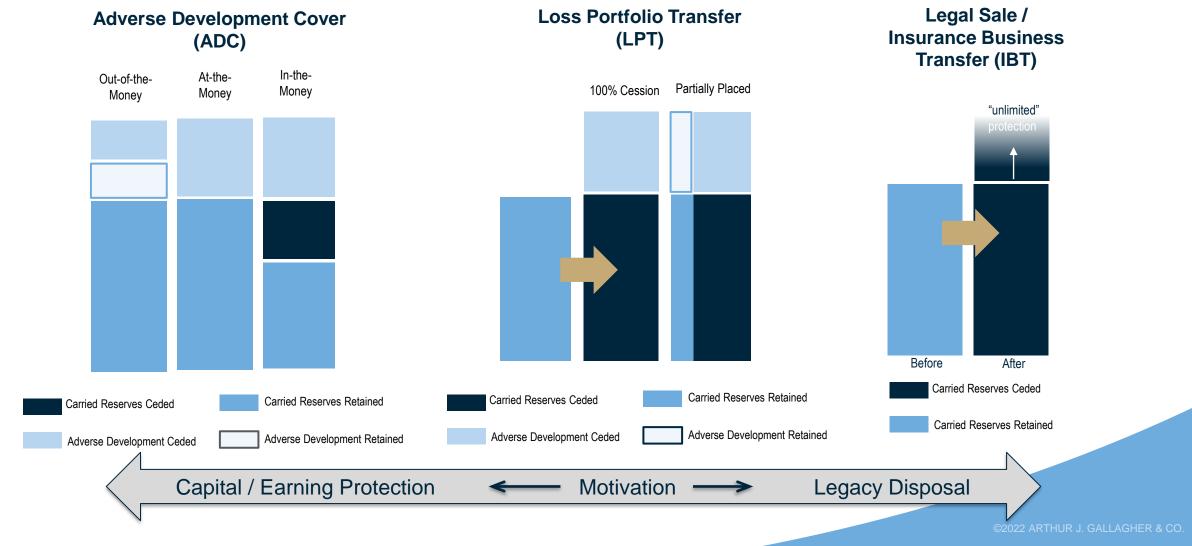
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High Level Structural Options

Well-established structural options can be tailored for transaction motivation





Adverse Development Cover (ADC)

Overview

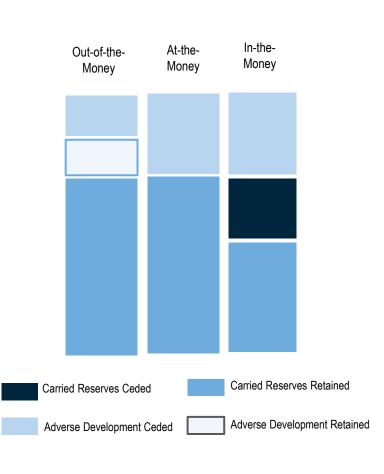
- A retrospective stop loss on reserves, to manage the whole account or specific lines
- With respect to current claims reserves this can attach within, at or above the held reserves
- Can be set up as a rolling facility to provide ongoing capital alleviation

Rationale for purchase

- Reduces capital charges and earnings volatility above ADC attachment point
- Allows you to retain control of claims, protecting against reputational concerns
- ITM ADC can help mitigate cost by ceding away investment income on held reserves
- Attaching at current reserves also provides a greater element of earnings protection

Flexibility of structural features

- ADCs allow a range of structural features to mitigate costs of placement:
 - In the money cedes last to pay portion of reserves to lower RI premium and generate additional reserve risk capital relief
 - At the money provides volatility protection above current held reserves
 - Out of the money introduces loss corridor to lower RI premium but reduces capital relief
- All are likely to require some form of co-participation when claims control is not transferred



Potential to quickly address earnings / capital challenges, doesn't solve operational challenges

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Illustrative ADC

Conceptual Terms

Reinsured: []

Type: Adverse Development Cover

Subject business: \$[]M reserves

ADC structure: Retained reserves: \$[]M

Corridor retention: \$[]M xs \$[]M ADC Layer: \$[]M xs \$[]M Exhaustion: \$[]M ([]%-tile)

Premium: \$[]M

Reserve Transfer: If "In-the-Money"

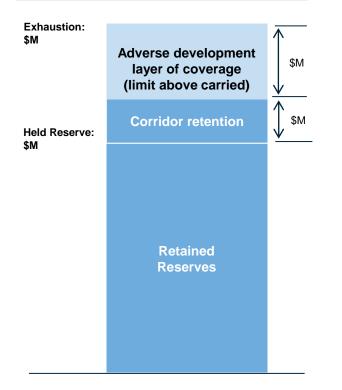
Parameters

Payout: [] MTP [(underlying)]

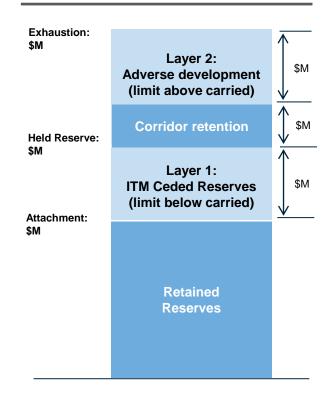
Discount rate: []%

[No] claim control transfer

Adverse Development Cover (ADC) (out-of-the-money)



In-the-Money (ITM) ADC (aka Hybrid LPT)



- Capital relief reflects limit of coverage above carried (e.g., Layer 2)
- Value of asset transfer Layer 1 (limit below carried) used to fund cost of risk transfer Layer 2 (limit above carried)



Loss Portfolio Transfer (LPT)

Overview

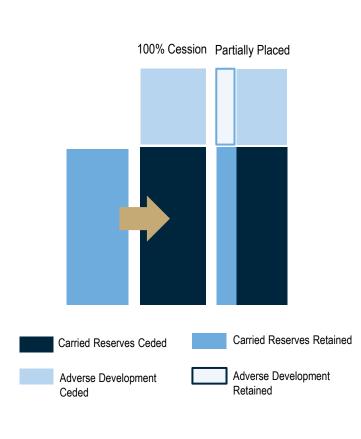
- A retrospective quota share of reserves to transfer whole account or specific lines
- Can be fully or partially placed
- May have a monetary cap on losses ceded / limit of coverage

Rationale for purchase

- Select specific lines / classes for divestment (vs an entire YOA)
- LPTs can be stratified to allow the retention of claims control in key areas
- Operational efficiencies can still be derived, including claims outsourcing where required
- Potential to increase the number of bidding counterparties, lowering execution risk for lightly structured deals

Flexibility of structural features

- LPTs allow the introduction of a range of structural features including:
 - Business selection / exclusion or partial placement structures to facilitate the retention of claims control or retain an element of reserve upside (although partial placement also exposes cedent to potential future downside)
 - Use of funds withheld accounts to mitigate liquidity issues / ceding of reserve margin (subject to cost of
 investment crediting rate and negotiation of appropriate reallocation of profit commission at commutation)



Less finality than an legal sale / IBT, but still an effective tool to manage class-specific challenges

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Illustrative LPT

Conceptual Terms

Reinsured: []

Type: Loss Portfolio Transfer

Subject Reserves: \$[]M reserves

LPT Limit: \$[]M, []% of Subject Reserves

Premium: \$[]M

Payment: Funds transferred [or retained]

Security: As required for security criteria and

regulatory credit

Claims handling: To be transferred [or retained]

Assumptions to be refined

- Reserve adequacy
- Payout: [] MTP
- LOB guideline volatility ([]% CV)
- Investment yield: []%

Loss Portfolio Transfer (LPT)

Exhaustion: \$600M

Adverse Development
Coverage
(limit above carried)

Held Reserve: \$403M

Transferred Reserves

- Economic protection to selected percentile (based on volatility assumptions)
- LPTs provide for operational relief through transfer of claims handling (ULAE savings)
- Competitive placement
- Potentially income neutral at inception as premium reflects assets backing transferred liabilities
- However significant asset transfer



Insurance Business Transfer (IBT)

Overview

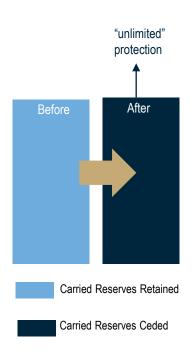
- An IBT is akin to a legal transfer of gross liability legally separating transferred reserves from carrier to acquirer. There is no cap on losses ceded.
- Rhode Island and Oklahoma have most developed regulation around IBT transactions with the NAIC and other states considering similar statutes.

Rationale for purchase

- An IBT provides finality. No further reserves would have to be held for the relevant business, providing a significant capital benefit
- Transfer of gross liabilities ensures full operational relief can be achieved

Flexibility of structural features

- IBTs are somewhat limited in terms of flexible features, and claims transfer is a standard feature
- Significant regulatory and legal process, as well as approval



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U.S. Regulatory Overview – Finality Solutions

Traditional exit alternatives and transfers

- Run off / Sale /Reinsurance LPT
- Novation or accelerated commutation followed by sale or reinsurance
- Insurance Receivership Model Act

Business transfers for solvent entities

- Assumption Reinsurance Model Act
- Rhode Island Voluntary Restructuring
- Insurance company division (six states)
- Corporate company division (two states)
- Vermont Legacy Insurance Management Act
- Insurance Business Transfers Three states, including Oklahoma

Rhode Island Voluntary Restructuring

- Voluntary Restructuring of Solvent Insurers Chapter 27-14.5, applies only to commercial carriers domiciled in Rhode Island
- "A Rhode Island domestic insurance company meeting the requirements of subsection (i) hereof and formed or re-activated for the sole purpose of entering into a voluntary restructuring under this chapter and whose liabilities consist of <u>commercial liabilities</u> transferred to said company with the approval of the commissioners and pursuant to the regulations issued by the department under this chapter. The amount of the commercial liabilities transferred must be less than or equal to the amount of assets transferred to the newly formed or re-activated company."

Oklahoma's Business Transfer Act

- Oklahoma Senate Bill 1101 (Modeled after UK Part VII Transfer)
- Procedure for the transfer and statutory novation of polices from transferring insurer to assuming insurer by way of an Insurance Business Transfer without affirmative consent of policyholders/reinsureds
- Novation will be subject to regulatory and court approval
- Makes no delineation between types of eligible insurance coverage to ensure run off business is captured within this



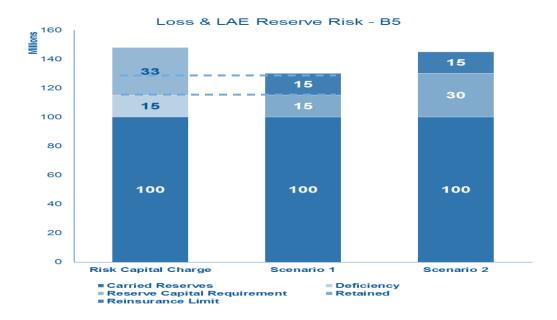
Discussion Outline

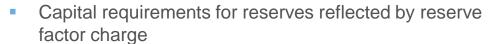
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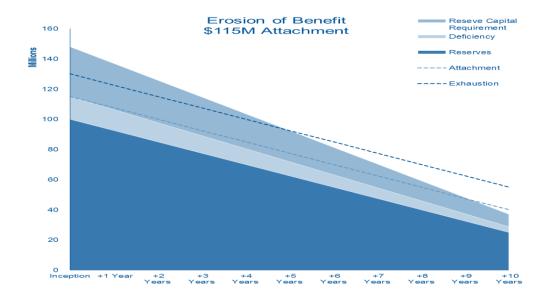
Rating Agency Capital Models

Impact of Reserve Covers





- ADC limit can offset the reserve capital
 - Subject to diversification reduction
 - No benefit above/below "capital layer"
- However, cost is dependent on attachment point, the higher the attachment point, the lower the cost
 - But higher attachment provides less protection against adverse development

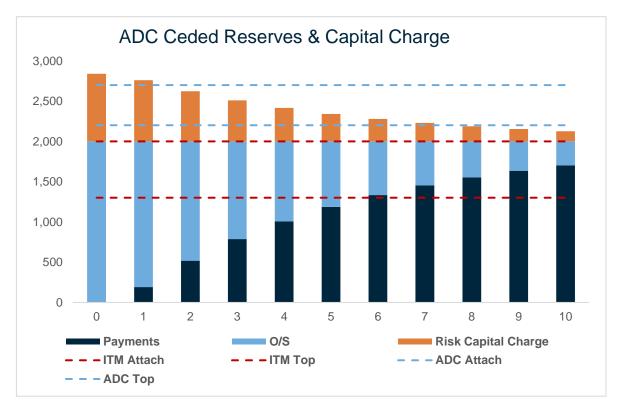


- Benefit erodes over time as reserves are paid out
 - Longer benefit for lower attaching layer
 - ii. Benefit erodes quicker for higher layer
- S&P released guidance reflecting the benefit of reserve covers in their capital model (August 2019)
 - i. "Effectively executed LPT/ADC transactions could enhance cedants' financial risk profiles and overall creditworthiness"
 - ii. Ultimate benefit will need to be negotiated
 - Similar treatment in AM Best BCAR



Determining the Capital Benefit & Cost of Capital

Illustrative LPT/ADC Structure impact over capital holding period



Assumptions:

- \$2.0b casualty reserves
- 36% capital charge
- Reserve adequacy
- Sched P payout: 5yr MTP
- Volatility: 20% CV, inv inc 3.0%

ADC structure:

Limit: \$500m

Attachment: \$2.2b

Corridor: \$200m (10%)

Premium: \$100m (20% ROL)

Alternative: \$750 ITM Layer

Capital benefit (illustrative)

- Relief per capital model (Proposed S&P capital model)
 - 1st year lifts score 5%
 - Roughly 1% per \$100m limit
- Reflects limit, capital charge, payment pattern
- Downside loss absorption

Cost of Capital (illustrative)

- Premium and loss investment income on transferred reserve assets relative to long run capital benefit
 - Modeled 6.0% cost of capital |
 - Close to debt costs with benefit of risk transfer
- In-the-Money (ITM) layer alternative reflects forgone investment income & favorable development potential



Discussion Outline

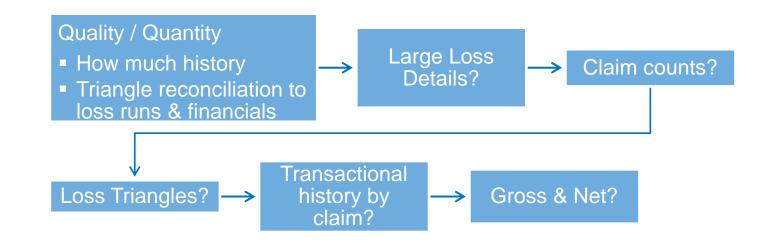
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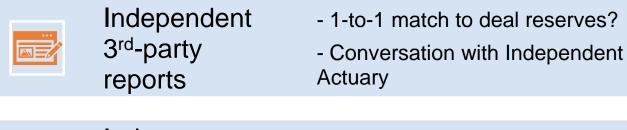
Underwriting Considerations

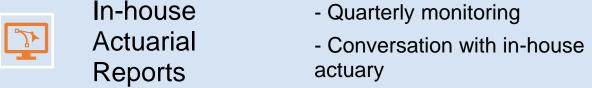
Portfolio: Company: **Client Motivation** Size of Reserve Portfolio Moral Hazard Lines of Business **Information Asymmetry Territories / Jurisdictions** Reinsurance-Assumed or Direct Business Alignment of interests (Partnership) **Outwards Reinsurance**

Actuarial Considerations

- Understanding of defined subject book of reserves
 - Business unit, products, or policies
 - Covered Accident Years
 - Ongoing or discontinued book
- Actuarial data and analysis of subject reserves
 - Loss triangles of paid losses and case outstanding
 - View of IBNR specific to subject reserves (not corporate allocation)
 - Internal and 3rd party analyses of subject reserve portfolio









Pricing Considerations

The reinsurance premium for a retroactive cover can be thought of as consisting of two components:

- The discounted value of transferred reserves, plus
- A risk margin for the limit provided above carried reserves

The discounted value of carried reserves is primarily driven by:

- The expected pay-out pattern, and
- The current interest rate environment

and to a relatively less extent by:

 Reserve adequacy and reserve volatility (deficient reserves or adverse development due to volatility accelerates the pay-out

The risk margin for limit above carried is primarily driven by:

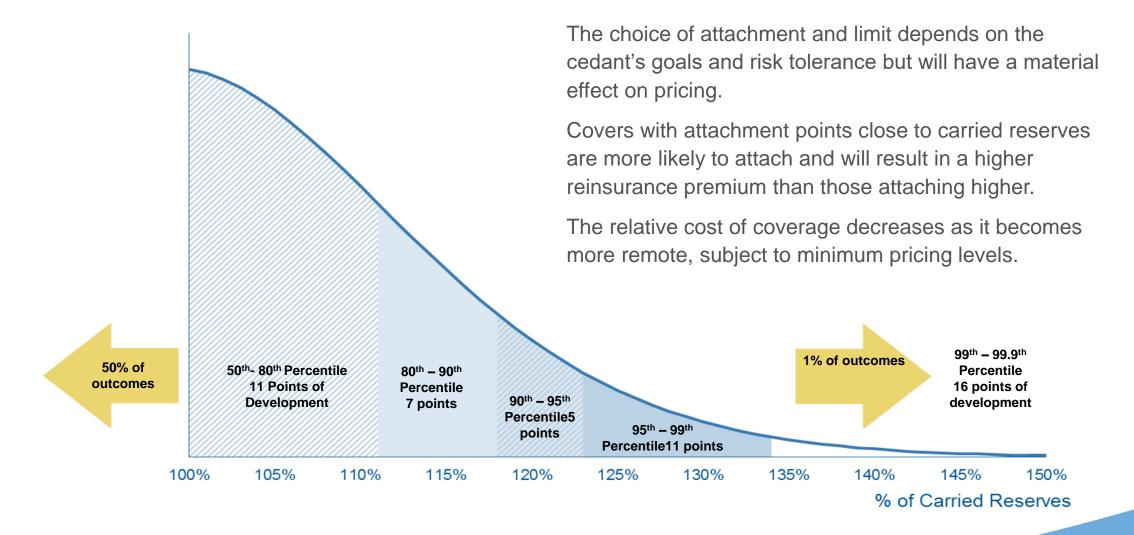
- The attachment and limit provided by the retroactive cover
- Reserve adequacy
- Reserve volatility

And to a lesser extent by:

The expected pay-out and current interest rates (since limit above carried is last-to-pay)

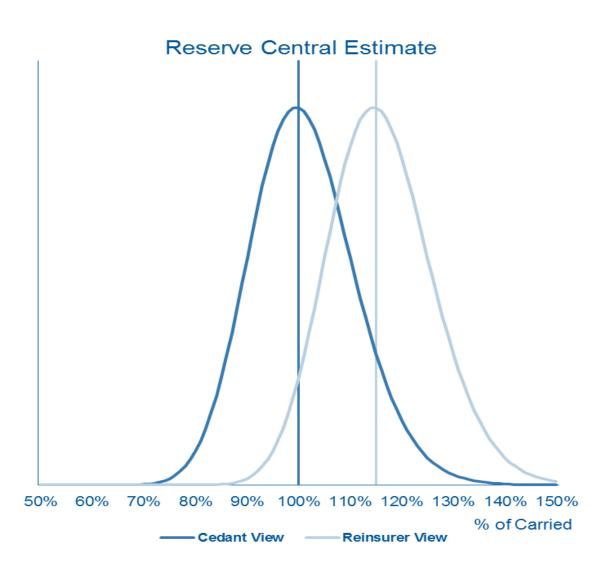


Structure: Attachment and Limit





Adequacy of Carried Reserves



The first component of pricing is a determination of the adequacy of carried reserves through:

Actuarial Analysis

- Paid and Incurred Triangles
- External Actuarial Reviews

Claims Analysis

Review of open and closed claims

Where we are in the Industry Cycle

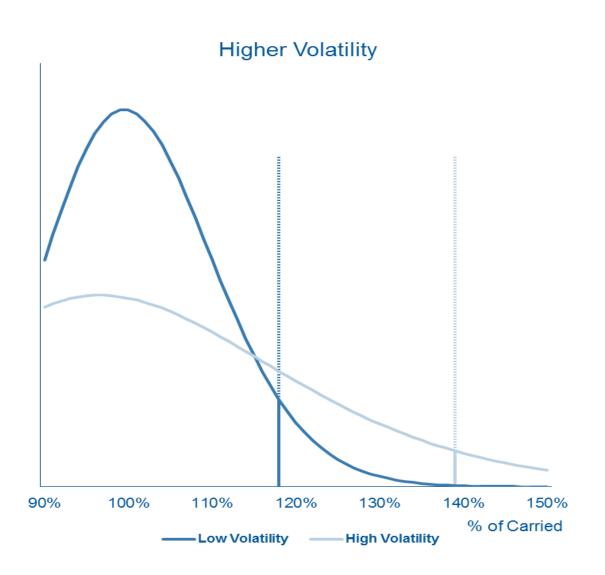
Is the Line understood to be over or under reserved?

Company History

- Past adverse development
- Changes in exposure
- Changes in claims handling procedures
- Data quality
- Gross vs. Net



Volatility of Carried Reserves



At the same time adequacy is being assessed the potential volatility of ultimate is also determined through:

Actuarial Analysis

- Paid and Incurred Triangles
- External Actuarial Reviews

Claims Analysis

Review of open and closed claims

Where we are in the Industry Cycle

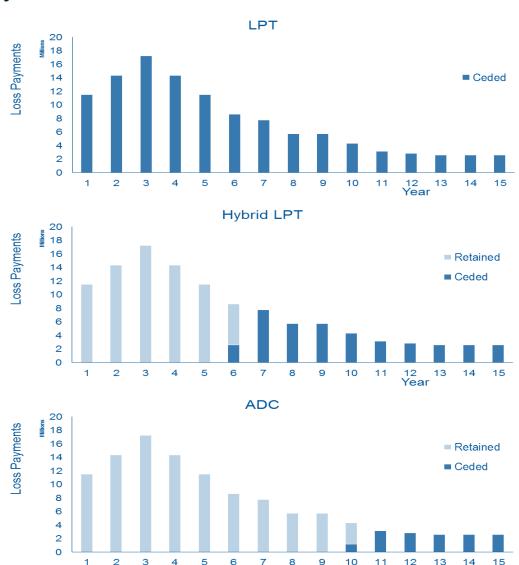
Is the Line understood to be over or under reserved?

Company History

- Past adverse development
- Claims handling procedures
- Changes in exposure
- Changes in number of lines/diversification
- Inuring Reinsurance/Retentions



Pay-Out Period & Discount Rate



Year

Retroactive reinsurance takes advantage of discounting adverse protection excess of carried reserves is the "last to pay," further maximizing the effect.

The duration of reserves covered (mean time to pay) depends on:

- Characteristics of the underlying business (LOB and retention)
- Attachment point of the retroactive cover higher attachment points result in longer MTPs

Adverse development can result in acceleration of loss payments and substantial decrease in MTP

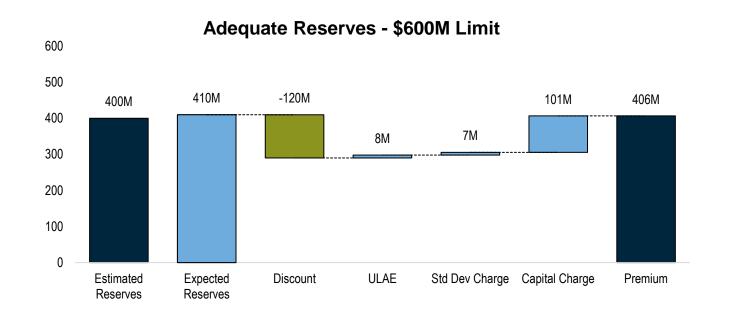
Leveraged effect on "excess" attachments

The amount of discount embedded in carried reserves also depends on interest rate used

- Typically see duration matched 70-100 bps + risk-free rate
- Current interest rate environment is volatile



Deriving Market Pricing Illustration



Key input assumptions to derive a market price range						
Input	Pricing Range Driven by Assumptions					
Reserve Valuation	-\$50M	adequate	+\$50M	-\$50M	adequate	+\$50M
Limit (%-tile)	\$600M (90%)	\$600M (90%)	\$600M (90%)	\$700M (95%)	\$700M (95%)	\$700M (95%)
Payment Pattern (MTP)	12.5 years	12.5 years	12.5 years	12.5 years	12.5 years	12.5 years
Interest Rate	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Volatility (CV)	40%	40%	40%	40%	40%	40%
Reinsurer Required IRR	10%	10%	10%	10%	10%	10%
Illustrative Premium	\$392M	\$406M	\$420M	\$437 M	\$455M	\$470M

Retroactive pricing model

- Stochastic cashflow model:
 - Best estimate reserve valuation
 - Correlated portfolio CoV
 - Payment patterns
 - Reinsurer investment income
 - Reinsurer capital allocation
- Distribution of reinsurer's cashflows are evaluated to understand KPIs such as underwriting result, internal rate of return (IRR) and probability of loss

Determining an appropriate LPT price:

- Reinsurance premium is derived from assessing a reinsurer's IRR over the run-off period, considering:
 - Expected margin (+/-) to best estimate liabilities
 - Capital required to support the deal
 - Investment income

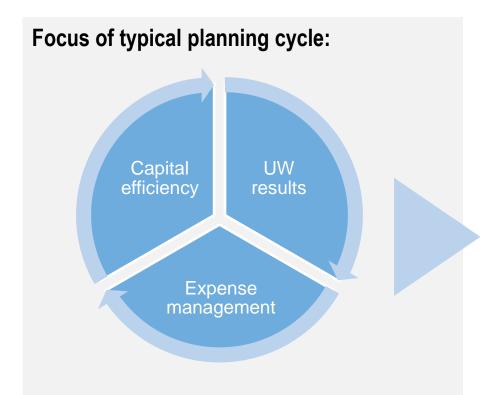


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Reserve optimisation as part of your planning process



We believe that performance can be significantly enhanced by evaluating business that has already been written i.e. by optimising capital allocation and operational expense via a proactive reserve management strategy.

Agenda items for reserve optimisation review process:

Review of existing reserve management strategy

Portfolio review should be conducted at an appropriate level of granularity

Consider whether portfolio segments are strategically important (core v non-core) – Identify which portfolio segments add or destroy value

- Understand level of capital intensity
- Understand potential for earnings volatility
- Understand portfolio running cost (expense intensity)
- Is asset portfolio yield likely to cover the cost of allocated capital?
- If portfolio is deemed to be destroying value, is there a strategic reason to continue running the portfolio?

What is the structure, availability and cost of alternative risk management / financing mechanisms?

- Is there potential to improve capital efficiency?
- What is the potential to reduce earnings volatility?
- Is there potential to release trapped capital for reallocation?
- Could a potential transaction support wider strategic objectives?

Consider Trade-offs

- Can brand integrity be maintained? (i.e. retain claim control)
- Materiality of foregone investment income
- Execution risk
- Sustainability of alternative strategies



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