

GIRO Conference 2022

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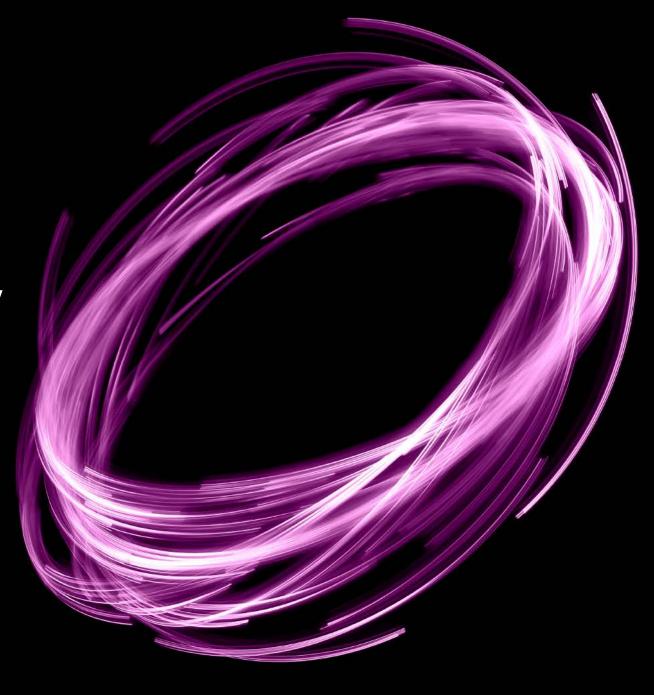




Adapting your Capital Management Strategy to Changing Market Conditions

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#GiroConf22







- Setting strategic objectives
- Adapting a capital management strategy
- How market conditions can impact strategy
- Case studies
 - 1. Increasing Inflation and Interest Rates
 - 2. Volatile Exchange Rates
 - 3. Hardening Market Rates
 - 4. Changes to S&P Capital Methodology
 - 5. Impact of ESG and Climate Change



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Setting Strategic Objectives





An insurer's value is dependent upon management's ability to outperform in four main areas:



Shareholder Value







Capital Efficiency

Profitability Solvency **Target** Growth

(Thomas Wilson – CRO, Allianz SE)

Capital management

Capital management stands at the convergence of potentially conflicting objectives.

Underwriting

- Managing the capital is all about optimising under constraints.
- Setting a risk appetite framework is key before determining the optimal capital management strategy.



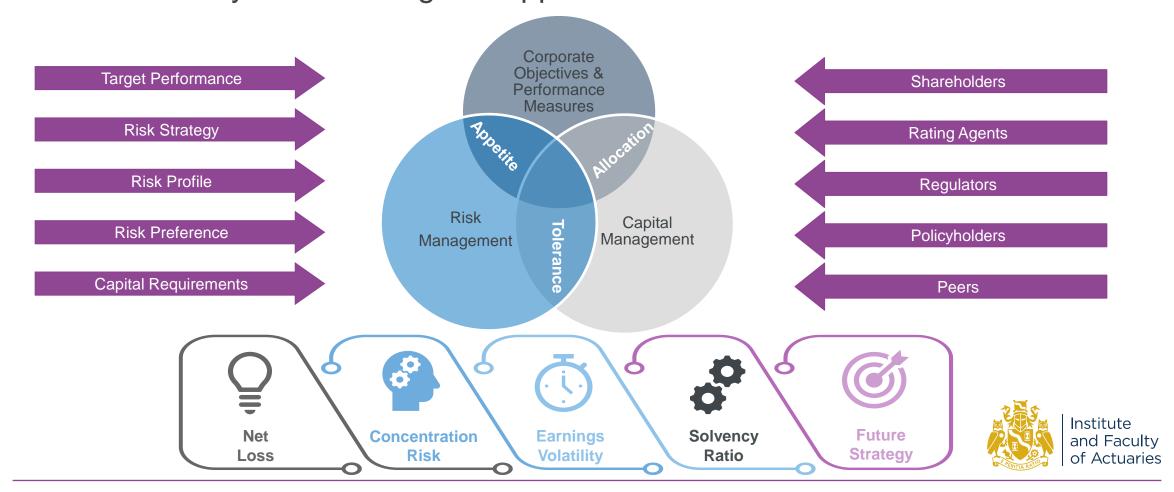
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Establishing Risk Appetite



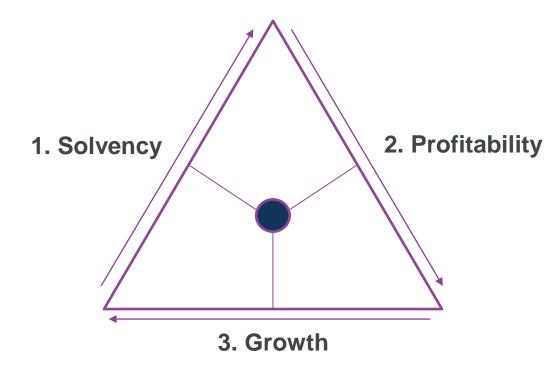


Balance is key when setting risk appetite



Performance Optimization





Key Considerations

- Risk Appetite The amount and type of risk the company is willing to assume to meet the business objectives
- Business Objectives of the short term, medium term and long term
- Peer studies How does the current and prospective programme compare against peers in the market
- 1. Capital and Solvency comes first to meet policyholder obligations...
- 2. Managing profit stability over the short and long term comes next...
- 3. Maximise growth opportunities under constraints of Profitability and Solvency



Capital Management Themes





There are a number of situations, or combination of situations, that place pressure on capital.....

Underwriting Event Shock

Reserve Shock

Interest rates up = Bond values down

Bond downgrade/ impairment = Bond values down

Other asset reduce in value

Reinsurer failure

Weakening Currency → Inflation

Growing market / penetration

Bigger business → more capital needed

Grow market share

Bigger business → more capital needed

New line of business

Bigger business → more capital needed

Inflation

Claims up → Premiums up → Regulatory capital up → more capital needed

Regulation Change

Law Change → Reserve Shock

Acquisition Opportunity

Special Dividend to Shareholders

Change to Capital Light Model
Reduce Capital → Increase RoE
Reduce capital back to shareholders

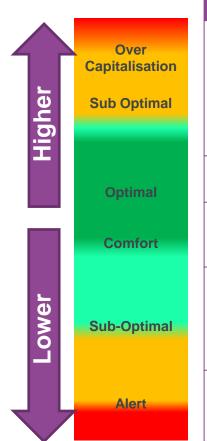
Capital Management Strategies





Capital strategies will vary depending on level of solvency compared to risk appetite

Solvency Ratio Position



Action Category	Possible Alternative Strategies
Redeploy Capital	 Enter new business lines. Buyback issued debt capital. Issue dividends to shareholders / premium discounts (mutual). Buyback shares (publicly traded). Increase allocation to investment risky assets. Hold excess capital to satisfy rating agency needs. Enlarge growth of diversified insurance business. Increase ESG Score.
Fine-tune Underwriting and Investment Strategy	 Optimum level of capitalisation. Continuous performance optimisation to remain in the optimal zone.
Re-structure Underwriting and Investment Strategy	 Improve diversification within the group. Improve investment strategy. Optimise use of alternative reinsurance capital.
Improve Efficiency of Capital Use	 Increase reinsurance cover / protection by class of business or in the aggregate. Issue debt capital, equity or premiums calls (mutual). Slow down growth strategy. Scale-down operational activities. Restructure investment and business portfolio.
Restore Capital Position	 Consider private capital relief (Alternative Reinsurance Capital). Consider raising premiums from members. Consider sale of non-performing business lines. Supplementary calls (mutual).

High Level Capital Strategy

- Underwriting Management
- Reinsurance Solutions
- Investment Strategy
- Capital Planning
- Other



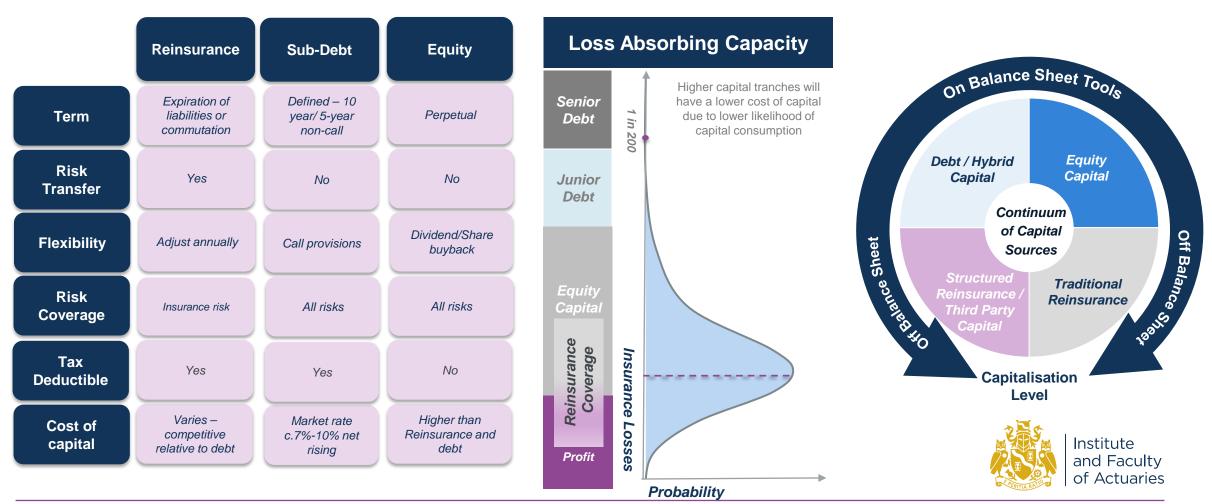
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Expanding the Capital Toolkit





Assessing the Insurer's external capital management tools based on loss absorbing capacity

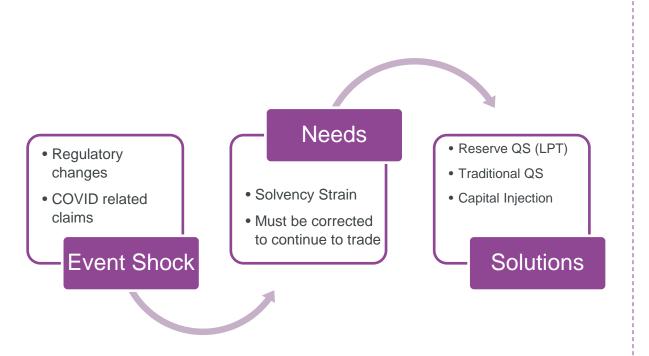


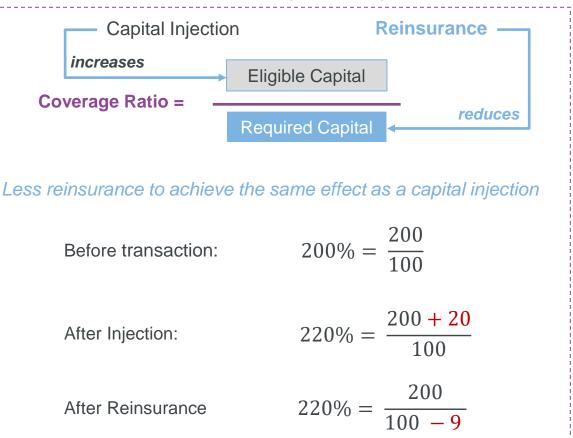




Responding to Capital Issues

Less reinsurance required to achieve the same effect as a capital injection

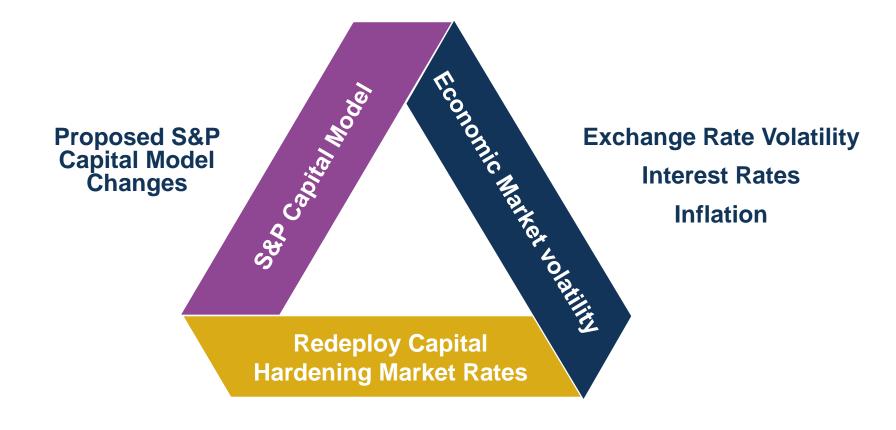












Maximize Current Market Opportunities







Looking ahead to 2023 market conditions



- > Rising inflation risk
- Weaker economic resilience and associated risk of inflation / stagflation
- > Social claims inflation (notably in the US)
- Russia / Ukraine overhang and loss emergence
- > Exchange Rate volatility
- > Cat Experience / Hurricane Ian Development
- > Climate Change



Tailwinds

- Positive pricing trends with focus on underwriting discipline
- Reduced uncertainty around Covid-19 losses
- Leap towards digitisation and market modernisation
- > Rising interest rates
- > Hardening Market Rates

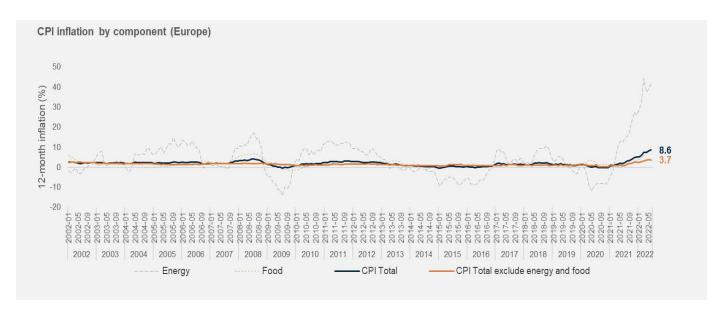


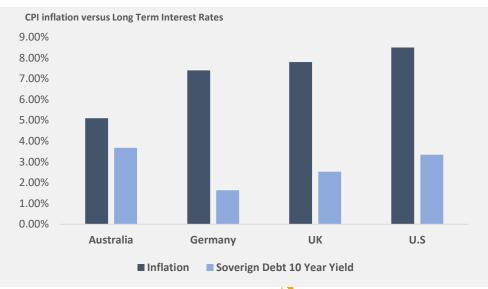




Increasing Inflation and Interest Rates

- In most major economies a combination of expansion monetary policy, COVIDinduced supply constraints and war in Ukraine has created an inflation spike.
- Interest rates are being increased by central banks in an attempt to control inflation





Inflationary trends are expected to continue: current expectations are a peak in latter half of 2022 and gradually falling through 2023

Inflation has spiked, bond yields have recently responded

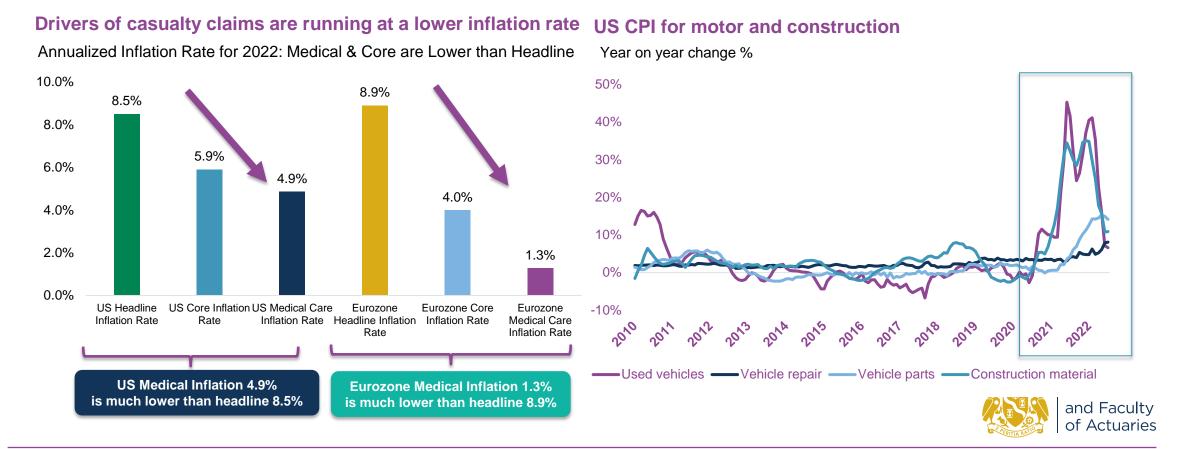






Implication of Inflation Risk

Inflation is impacting drivers of short-tail claim cost ...But longer-tail lines are less impacted

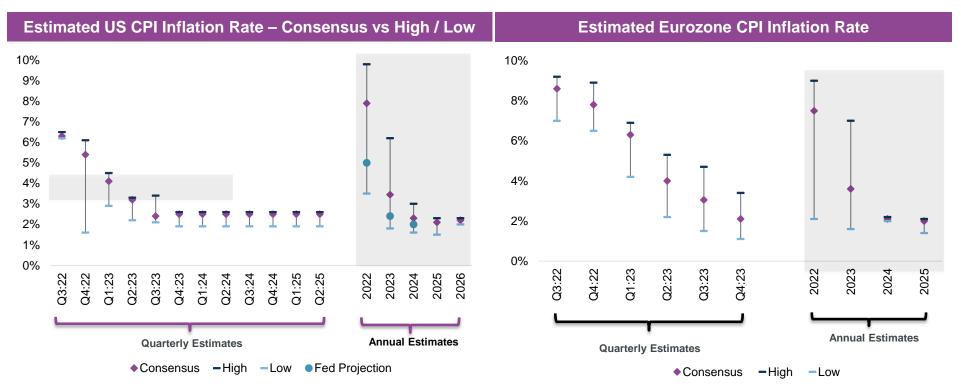






Future Inflation Outlook beyond 2022

- Consensus does expect inflation to return to 'normal' . . .
- Inflation risk will be revert to normal levels by H2 2023 according to the Federal Reserve and consensus



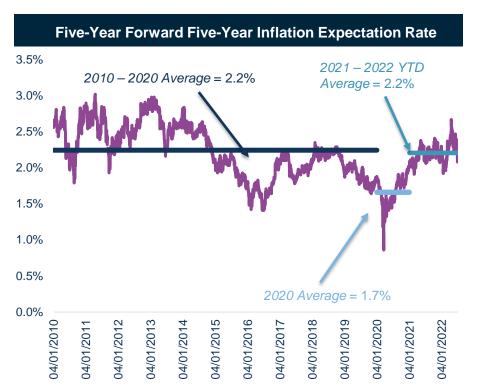


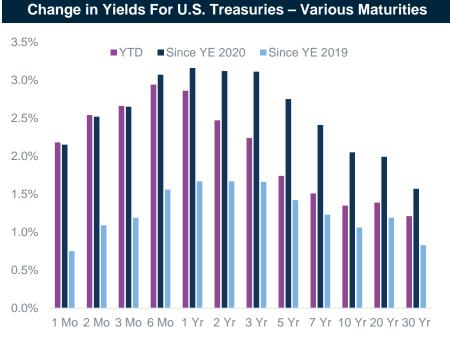




Rise in Interest Rates

Rise in yields could be higher than the expected increase in long-run inflation





Source: U.S. Federal Reserve

- Long run inflation expectations higher than pandemic-induced low but still anchored at long-run levels prior to the pandemic.
- But interest rates across all maturities are up significantly, ~100-150bps higher than pre-2020 levels.
- According to estimates by Dowling & Partners research, P&C companies under coverage benefit on average by 2pts of ROE for every 100BPS rise in NII¹.
- Inflation and Interest rates impact both sides of the balance sheet.
 Expect ALM matching to be a key theme.

Source: Federal Reserve Bank of St. Louis

Footnote: Average of D&P estimates for 46 covered companies excluding BRK in IBNR Weekly #24 2022. Estimates are for 100bps increase in P&C fixed income yield, including short-term and cash. Impact to company ROE depends on portfolio duration among other factors, but estimates represent a proxy for AY sensitivity to NII yields.



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Adapting Capital Strategies

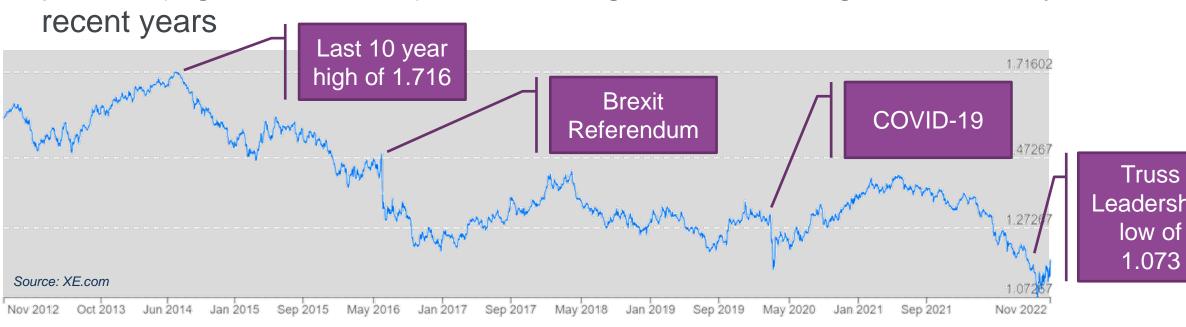
High Level Capital Strategy	Considerations
Underwriting Management	 Revisit underwriting adequacy based on revised views of inflation Are revised hurdle rates being applied in new business decisions?
Reinsurance Solutions	 Increased justification to use reinsurance, particularly as de-risking can reduce exposure to inflation volatility
Investment Strategy	 Expected reduction to the value of bonds due to interest rate increases Increase in risk free rate can make certain classes appear more desirable (e.g. cash)
Capital Planning	 Review in line with revised Weighted Average Cost of Capital (WACC) Has cost of debt increased and does this need to be reviewed to consider alternatives? Does the dividend strategy need to be reviewed?
• Other	Do the changes in market conditions increase credit risk for any third parties involved?





Exchange Rate Movements

 A knock-on impact of geo-political issues, and differences in central bank policies (e.g. interest rates) has led to significant exchange rate volatility in



Leadership low of

- GBP relative to USD has fallen by almost 50% over 10 years
- Over the last year alone, the value has fallen by approx. 15%







Adapting Capital Strategies

High Level Capital Strategy	Considerations
Underwriting Management	 Redeployment of capital across business may be required where class of business adequacies have changed materially (perhaps due to currency weightings)
Reinsurance Solutions	 Do existing reinsurance arrangements mitigate or worsen exposures against currency?
Investment Strategy	 Closer currency matching where possible (unless taking an active position)
Capital Planning	Solvency position may have improved or worsened depending on base currency and method to determine capital adequacy
• Other	Consider hedging strategies for large individual claims in minor currencies

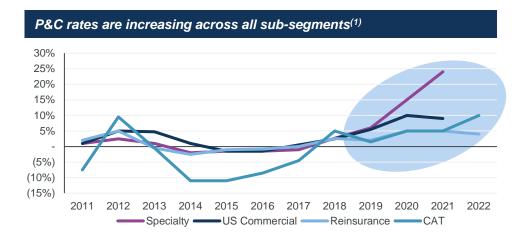






Highly Attractive Rating Environment

- Current rate momentum creates opportunities for (re)insurers with relevant specialisms to profit significantly
- The market has seen consistent price rises across nearly all insurance sub-segments



- This is coupled with a tightening of the terms and conditions of the underwritten policies
- Whilst 2018-2020 was a period during which (re)insurers focused on expense control and remediation of their underwriting portfolios, current market focus is on capturing the rate increase momentum and underwriting profitable new business

Source: Aon, RBC Capital Markets; (1) Specialty rates based on Beazley's reported group rates, US commercial rates from the CIAB, reinsurance rates based on the average of reported renewal rates of the four European reinsurers, CAT rates from Guy Carpenter global property CAT Rate-on-Line Index







Adapting Capital Strategies

High Level Capital Strategy	Considerations
Underwriting Management	 Improved rate adequacy will likely change the focus of business plans around certain classes of business
Reinsurance Solutions	 Additional reinsurance may be required to manage capital alongside additional growth in profitable classes
Investment Strategy	 Refinement of investment strategy as improved underwriting profitability may lead to less capital being allocated to investments
Capital Planning	 Expectation is that solvency position will improve as more profits are generated, but it could worsen in the short term if using a factor-based premium model (e.g. S&P) Growth plans due to improved profitability may require raising additional capital
• Other	Is rate change and adequacy adequately captured and reliable enough to use for business decisions? of Actuaries





Changes to S&P Capital Methodology

 Anticipated changes to S&P capital methodology include general increases in capital charges and an increase in diversification benefits

Capital Adequacy Model Output

Total Adjusted Capital (Capital Held)

- Allowance of non-life DAC and removal of various downward reserve adjustments to capital
- Calculation of hybrid capital tolerance using narrower capital denominator could lower limits in absolute terms
- Higher tolerance limit percentages for hybrid capital
- Stricter eligibility criteria for debt-funded capital

Risk Based Capital (Capital Requirement)

- Recalibration of the model to higher confidence levels
- Higher reserve risk charges
- Higher charges for natural catastrophe
- ♠ Lower credit risk for reinsurance
- More explicit and higher diversification benefits

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Adapting Capital Strategies

High Level Capital Strategy	Considerations
 Underwriting Management 	 New methodology will lead to a higher charge for non-life reserve risk
Reinsurance Solutions	 Additional tail cover for catastrophe risk may be required to address the increase in pre-diversified cat risk charge A higher charge for non-life reserve risk could be managed through retrospective solutions include LPT, ADC or legal transfers (Reinsurance to close, Novations, Insurance business transfer).
Investment Strategy	 Higher market risk charges (equities and alternative investments) may lead to a change in strategic investment allocation towards fixed income assets. Could justify a change in capital deployment strategies between core (re)insurance underwriting and investments.
Capital Planning	• Stricter eligibility criteria for debt-funded capital means that alternative structures may need to be considered (e.g. sidecars, ILS, collateralized reinsurance, equity or qualifying hybrid capital).
• Other	 Do the changes provide an opportunity to reassess the expected capital adequacy level held to by S&P?





The Rise of ESG

- Environmental, Social and Governance issues continue to grow in focus with key stakeholders, including investors, policyholders, regulators and rating agencies
- In particular, incoming regulatory requirements are leading to significant changes in internal processes and levels of disclosure
- Climate change is a key consideration under environmental issues, and is manifesting itself through increased frequency and severity of catastrophe events, as well as transitional climate risks

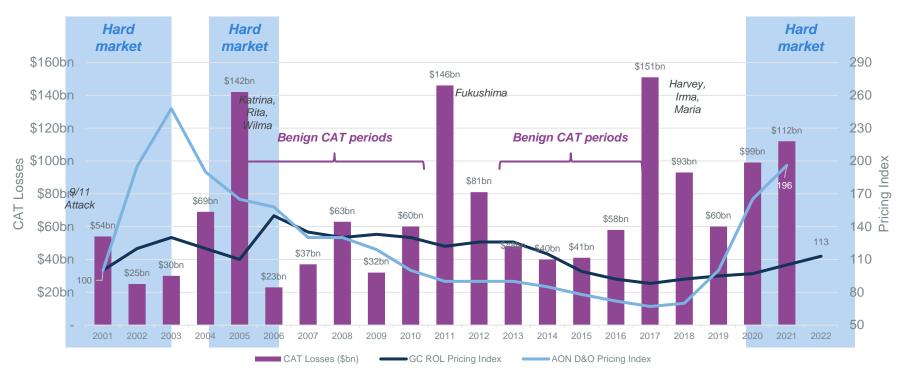






Historical Catastrophe Activity

Since 2005-6, there have been prolonged periods of soft market conditions



- Significantly elevated level of cat activity over last 5 years (both severity and frequency), which has caused significant insured losses
- Hurricane Ian in 2022 in 2022 is also expected to lead to significant market losses.

Lloyd's COR (reported) 140% 99% 91% 97% 112% 83% 84% 91% 86% 93% 107% 91% 87% 88% 90% 98% 114% 105% 102% 110% 94%

Sources: Swiss Re Institute, Lloyd's of London, AON, Reuters, AJ Gallagher research



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Increasing Loss Cost of Secondary Perils





 Secondary perils are increasingly becoming insured losses

Gallagher Re

- The market is seeing increasing loss costs of secondary perils, which are estimated to have accounted for more than 70% of natural catastrophe losses in 2020
- Primary perils have the highest loss potential, are well monitored, and usually covered by catastrophe models
- By contrast, secondary perils generate small-to-medium losses (e.g. those caused by hail, storms and bushfires) and often have less mature modelling capabilities

Sources: Swiss Re Institute

Note: Primary Perils: earthquake, tropical cyclone, winter storm Europe Secondary Perils: flood, severe convective storm, wildfire

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Adapting Capital Strategies

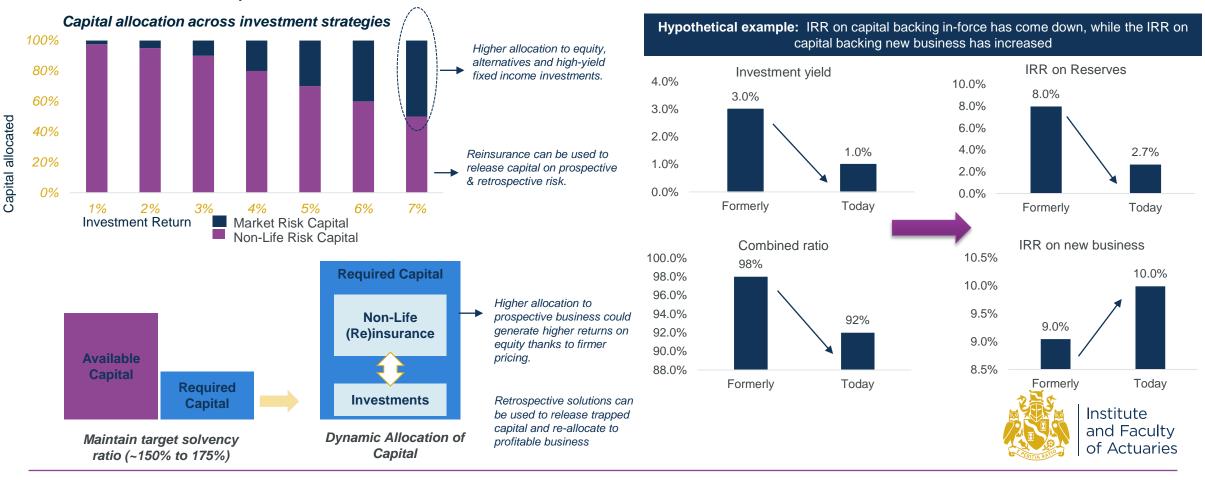
High Level Capital Strategy	Considerations
Underwriting Management	 Is cat exposed business still being priced adequately? Does a sustainable underwriting strategy lead to a material change in capital allocation between classes or sectors?
Reinsurance Solutions	 Potential exhaustion issues relating to cat reinsurance or other classes Potential future RI coverage issues if business includes ESG sensitive sectors
Investment Strategy	 Investment considerations around sustainability are becoming requirements for many regulators
Capital Planning	Are additional capital raises required due to cat loss activity?
• Other	Review of overall strategies above to consider sustainability and other ESG metrics





Capital Optimisation

Determine the right balance between underwriting, reserves and investments to enhance overall earnings and meet the cost of capital

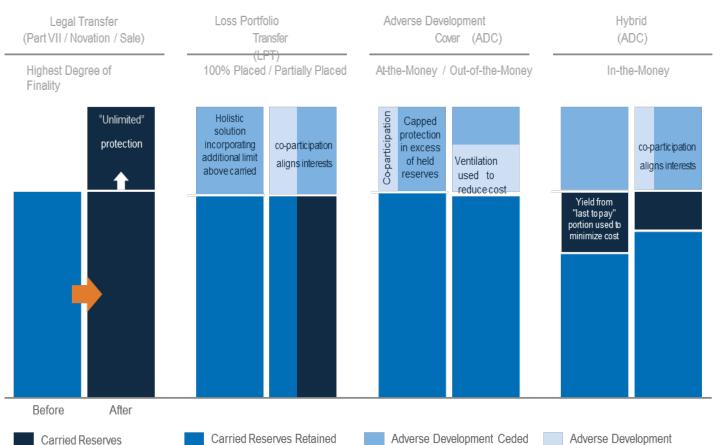


Reserve Management





A retrospective transaction can reallocate capital towards more profitable new business to improve capital efficiency



- A combination of lower investment yields and a firmer insurance pricing cycle has shifted the way non-life insurers make money.
- The return on capital backing in-force reserves has come down due to lower yields.
- At the same time, the return on capital backing new business has increased thanks to firming pricing.
- It may therefore make sense to use a retrospective solution to free up capital backing in-force and re-allocate that capital to new business generation.



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Ceded

Retained



In Summary

- Clearly defined business strategy and risk appetites are essential before looking to enhance capital strategy
- Many tools can be used to adapt your capital strategy

"The Best Time To Plant a Tree Was 30 Years Ago, the Second Best Time To Plant a Tree Is Now"

Anon

- With significant uncertainty around the corner...
- ...is it time to review all aspects of your capital strategy now?



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Questions

Comments

Expressions of individual views by members of the Institute and Faculty of Actuaries and its staff are encouraged.

The views expressed in this presentation are those of the presenter.



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Thank you

