# Reserving Forum 2023

### Agenda

**Opening Remarks** 

Lloyd's Market Reserving Exericse

**D&O US Lloyd's Deep Dive** 

Key Uncertainties for 2023 Year End

Inflation

Ukraine

**Risks on the horizon** 

Closing Remarks Questions & Answers



# **Opening Remarks**

Rebecca Soraghan – Interim Head of Actuarial Oversight

### Key headlines on reserving ahead of 2023 YE

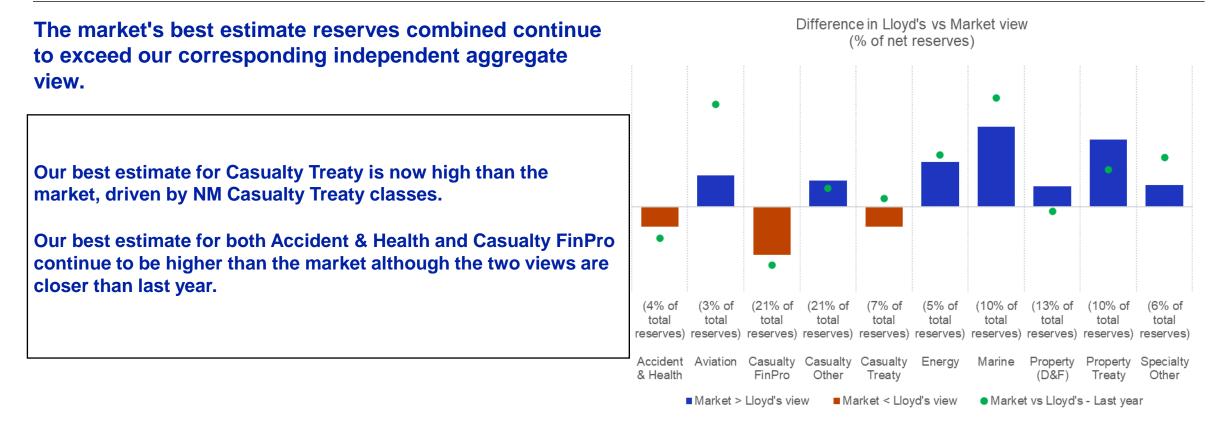


# Lloyd's Market Reserving Exercise

Hazal Karakurt – Senior Actuary

### We remain confident that aggregate market reserves are appropriate

Best estimate reserves are sufficient at total level but there are some concerns at class level



Instability in the global economic, political and social environment continues to prevail. This increases the uncertainty associated with estimating future claims experience and means that trends and assumptions determined based on historical data are not applicable to the future.

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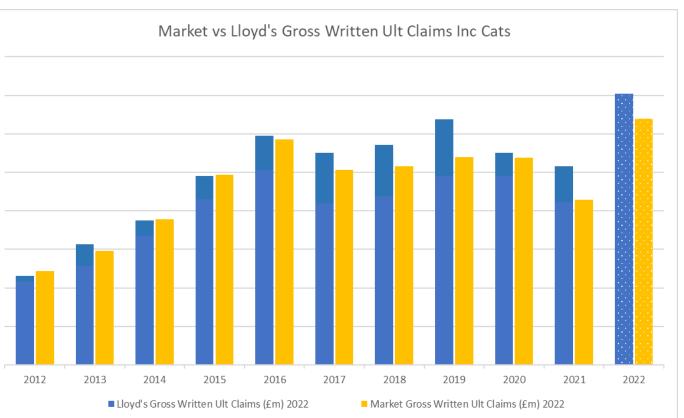
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### Non-Marine Casualty Treaty driving difference between Lloyd's and Market views on Casualty Treaty high level class

Differing views on settlement delays and re-underwriting benefit

- This year the Lloyd's view of Casualty Treaty is higher than the market's view
- The has been driven by the NM Casualty Treaty class where the Lloyd's independent view has increased materially compared to the Market's.
- This gap has grown significantly since last year, with US business being the largest driver of that gap, on years of account 2013 onwards.
- This class is the main driver of Lloyd's view being greater than the Market's for the Casualty Treaty class overall.
- Adverse movements in older years driving up IELRs.
- Market has favourable outlook on recent years of account how much of this favourable experience is Covid-19 court delays?
- How much credit should be given to re-underwriting?



Are reporting and settlement delays being appropriately allowed for? Are you confident your IELR selections are relevant for recent years of account? Has deterioration on older years been appropriately allowed for?

Recommended Areas of Focus

## Focus Areas from 2022YE Global Central Reserving Exercise

Where should attention be focused?



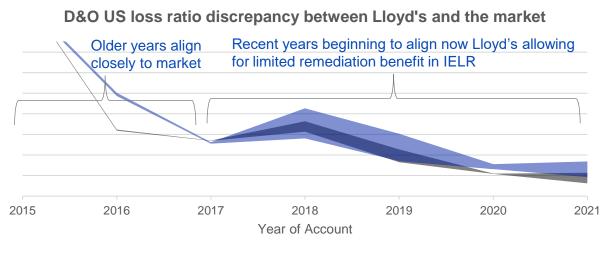
Exposure to Geopolitical Risks

Consideration of and allowance within Reserving

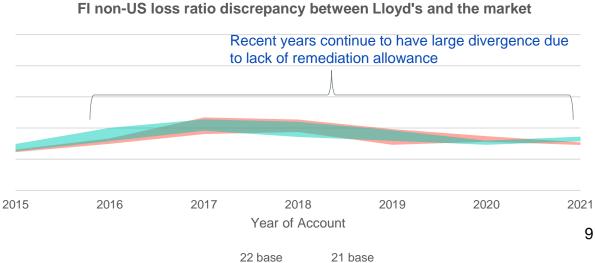
### **Focus Areas**

#### Allowance for remediation action within reserving

- Over past few years the market has been taking **action to address poor performance** across certain classes of business.
- It will take time for the impacts of these actions to materialise particularly in the case of long-tailed classes.
- For impacted classes, there are currently **diverging views** between Lloyd's and the Market. We believe that this is largely due to the Lloyd's central reserving exercise giving limited allowance for remediation impacts unless evidence of this can be seen in the underlying claims data, while the Market appears to be taking credit for the expected impact of these actions. This represents a difference in reserving philosophy between Lloyds and the Market.
- This divergence most pronounced for **Casualty FinPro classes**, in particular the D&O and FI classes.
- D&O (US) has been subject to a deep dive review in this year's exercise, including consideration of this divergence.



■ 2022YE ULR Gap ■ 2021YE ULR Gap



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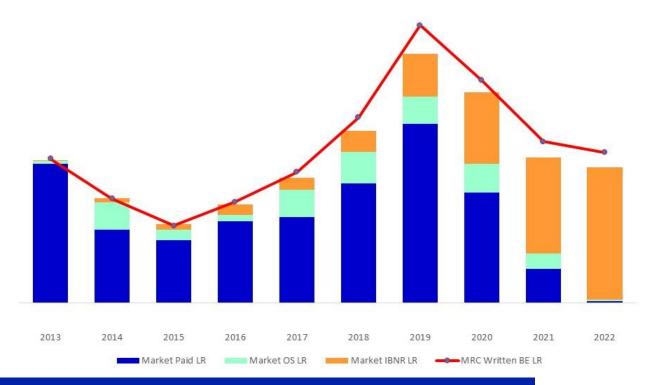
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### **Updates from previous exercise**

### **Cyber uncertainty continues**

- This class has seen rapid growth at Lloyd's in the last 10 years and has become one of the top 5 largest classes
- It has experienced heavy losses globally, particularly since 2019
- Ransomware attacks continue to be prevalent, while liability claims have reduced somewhat, which could mean a shortening in tail length.
- However, the claims profile appears to be changing again with the emergence of new types of claims, which, alongside the immaturity of this class and coverage changes, makes it difficult to determine the tail length and to determine claims frequency for this class. This makes reserving challenging.
- Evidence of improvements in underwriting practices emerging on recent years
- How will increased general economic uncertainty and global activism impact claim frequency?





# Continue to understand the drivers of growth in the account and challenge assumptions on the most recent years of account, particularly in light of uncertain economic climate.

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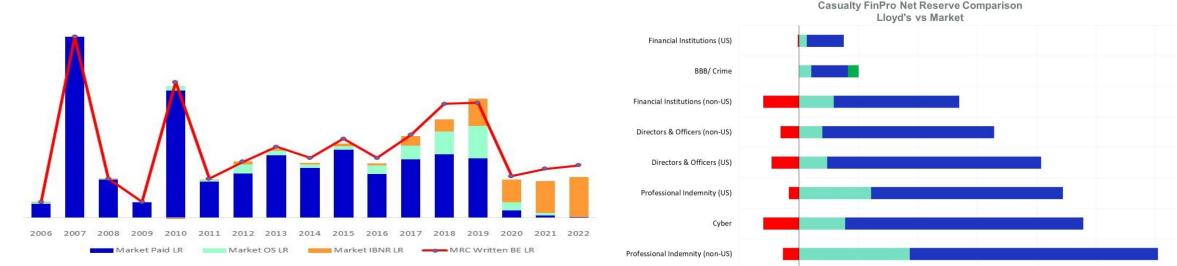
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### **Updates from previous exercise**

### **Casualty FinPro and Energy Onshore Liability**

- There is a step-change in Energy Onshore Liability performance from 2020 year of account onwards.
- Lloyd's has seen unfavourable development on prior years of account and has strengthened it's view of reserves on this class, but acknowledges that 2020 onwards do appear to be performing better than expected.
- Lloyd's independent view continues to be higher than Market's on most Casualty FinPro classes.
- However, the market and Lloyd's views are beginning to converge
- On D&O, we are beginning to see some of the benefits of remediation impacts come through the data, aligning our view closer to the market.
- These classes are especially exposed to uncertainties due to the economic environment



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OS MRC Written BE IBNR Market > MRC Market < MRC

Energy Onshore Liability Best Estimate Loss Ratio Comparison



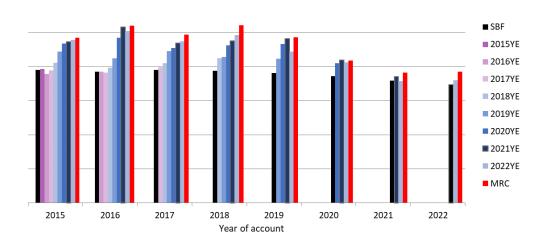
# **D&O US** Class of business review

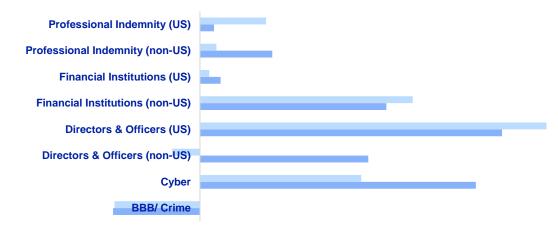
David Bracewell – Senior Actuary

### **Casualty Fin Pro concerns**

### Lloyd's vs Market

Market Gross Net Written Loss Ratio over time - Casualty FinPro





#### Casualty FinPro Gross Written Deficit - GCRE 22YE vs 21YE

■2022YE ■2021YE

- For all historical years of account, Market's view has increased from the initial estimates and SBF, bringing it closer to the MRC view
- Lloyd's independent view continues to be higher than Market's on most Casualty FinPro classes
- Significant gap between Lloyd's and Market on more recent years as Market loss ratios in more recent years continue to be lower
- Given the historical loss ratio development seen, combined with uncertainties stemming from changing economic environment and market cycle, it is important to understand this gap and set appropriate assumptions for recent years of account.

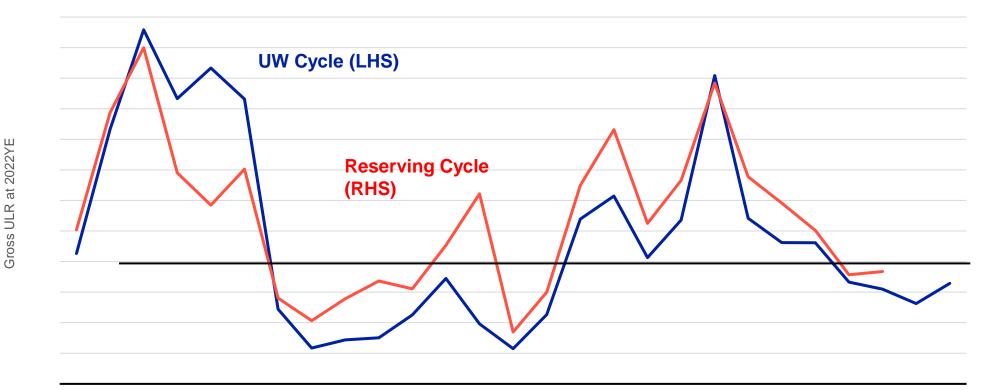
Directors and Officers US has been selected as the primary class for review in 2023 from a pricing perspective and a reserving perspective.

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### **Reserving vs Underwriting Cycle**

### **Reserving cycle still exists!**

Reserving and Underwriting Cycle (D&O US)



1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

DY2 to latest

movement

**Relative ULR** 

### **Reserving Cycle**

#### Longer to recognise losses?

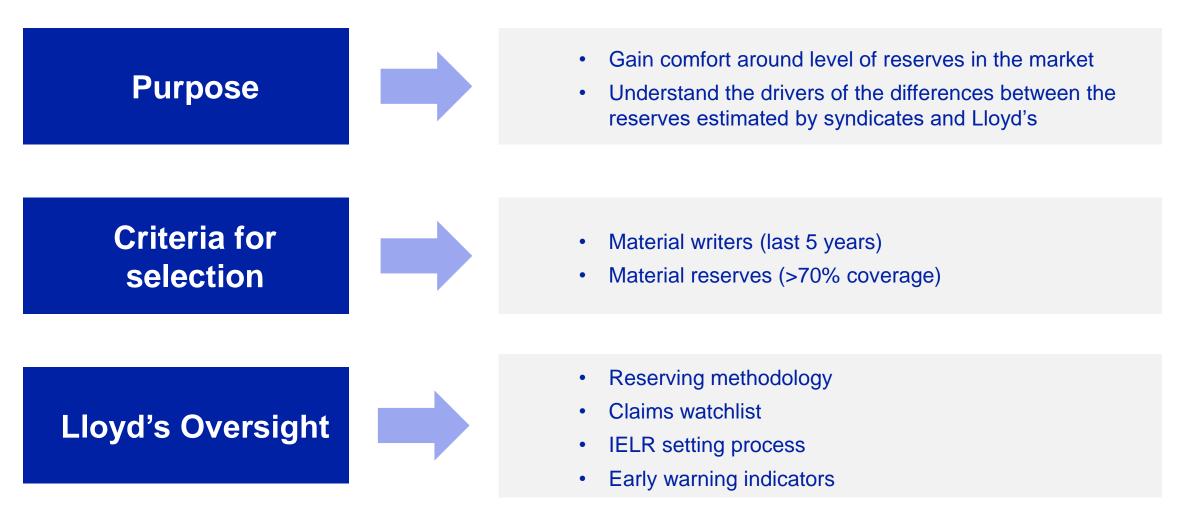
DY2 to Latest Relative ULR movement DY4 to Latest 

**ULR** movements

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## **D&O US Deep Dive**

**Reserving Team Review** 



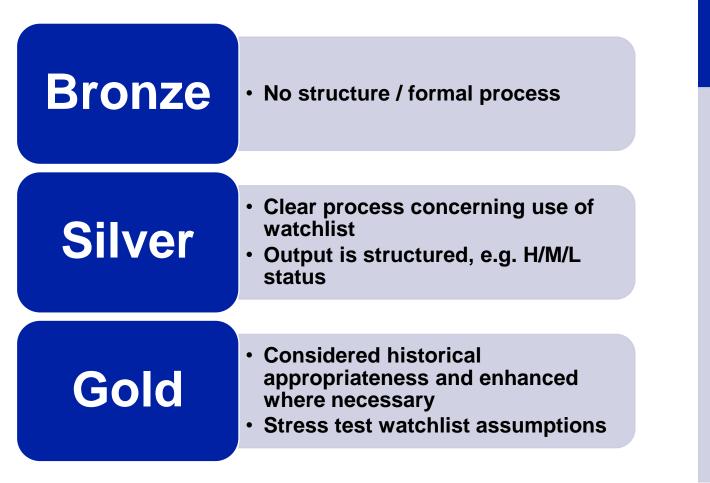
### **Reserving Methodology**

Differences in approach in the Market

Segmentation	Non-Cat Split	Methodology	Validation
Segmentation of D&O US into Transactional Liability and Binder/Non Binder business	<ul> <li>30% of agents reviewed claims in aggregate</li> <li>70% consider Attritional and Large claims separately</li> </ul>	<ul> <li>81% of the Syndicate reserving classes reviewed use traditional actuarial reserving techniques</li> <li>A minority of syndicates consider a Frequency Severity model</li> </ul>	Broadly half of agents perform Freq/Sev analysis. Most consider benchmark tools and comparison with claim watchlists

## **Claims Watchlist**

100% of sample use a watchlist

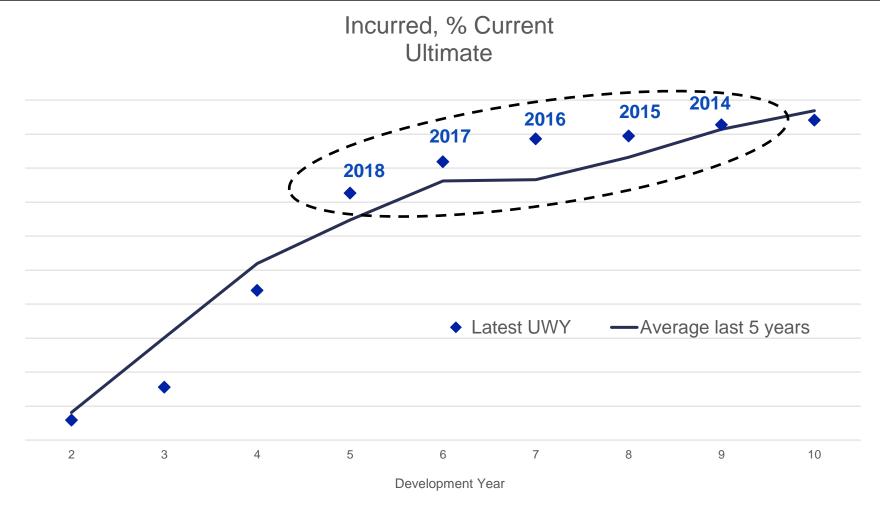


# Best Practice observations for claims watchlist process:

- Consider historical appropriateness; i.e. AvE.
- Feedback loop.
- Consideration of nil claims.
- Claims ranked as H/M/L risk and associated probabilities.
- Best-estimate vs Optimistic vs
   Pessimistic.
- Watchlist is stress tested as a validation tool.

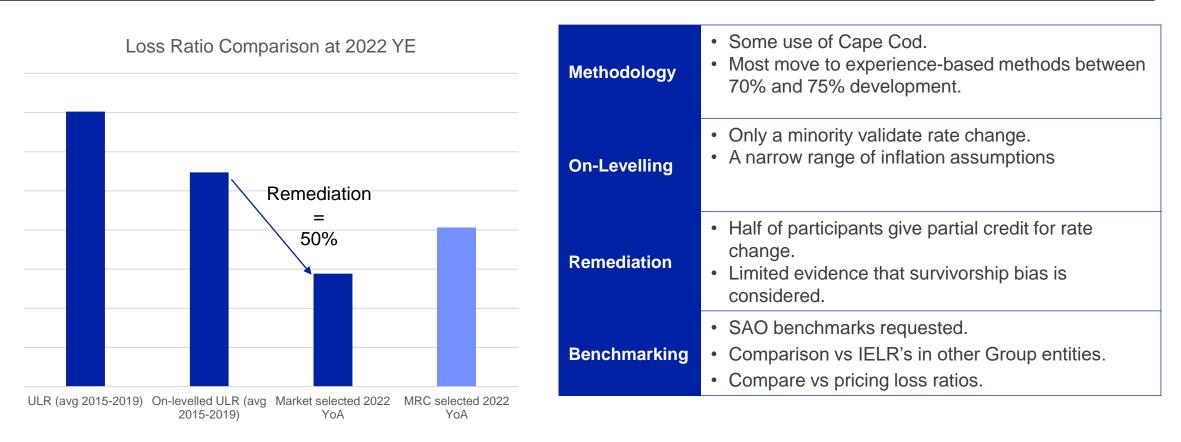
### **Reserving Methodology**

Upper end of historical experience



## **IELR Assumptions**

### Survivorship Bias?



### **Judgements should be Transparent & Communicated**

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### **Early warning indicators**

Is it too easy to disregard?

- AvE is used consistently across managing agents and widely shared with management.
- Limited evidence that longer term trends, cross-cycle, are being considered sufficiently.
- No clear use of high-level early warning indicators other than AvE.

	Year of Account	Avg IBNR burn during Yr 3	Avg Reserve burn during Yr 3
"BAD"	1997-2001	95%	18%
"GOOD"	2002-2006	30%	8%
"GOOD"	2009-2010	16%	7%
"BAD"	2011-2018	47%	15%
	2019-????	14%	7%

### **Overall Summary of Findings**

**Key considerations** 



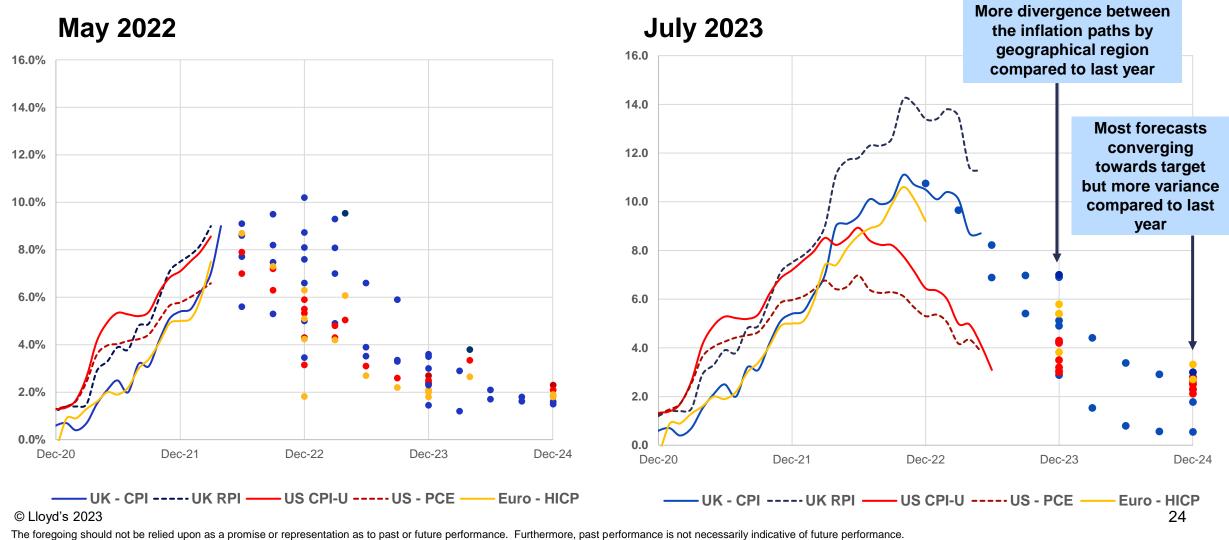


# Key Reserving Uncertainties - Inflation

Alex George – Senior Actuarial Analyst

### Inflation: The latest view

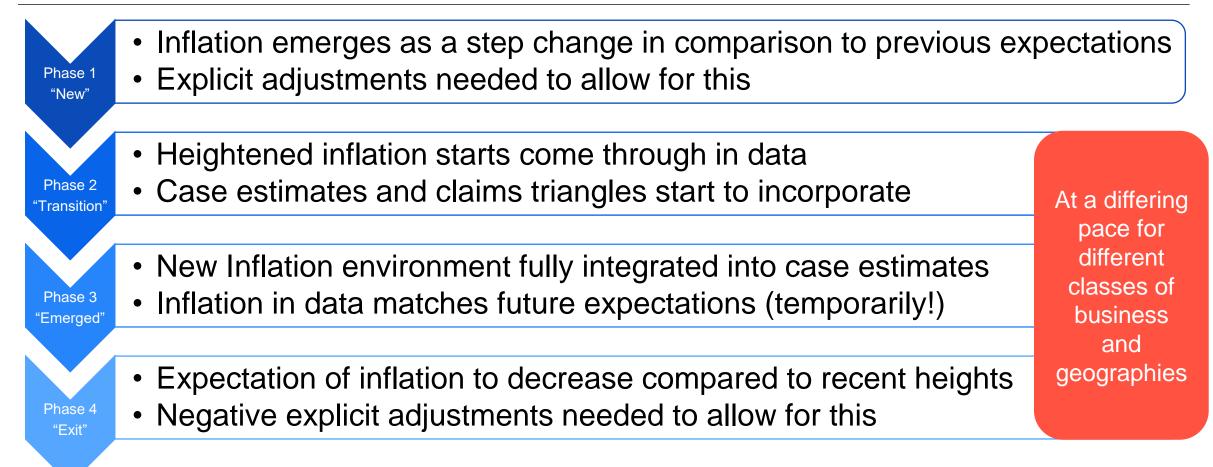
Realised inflation has been higher and more persistent than expected last year for UK and Europe



Classification: Unclassified

### Inflation: Entering a new phase

The evolving nature of claims inflation create a complex problem



Classification: Unclassified

### Inflation: "Phase 2"

#### Phase 2

- Inflation is beginning to emerge in the claims data, at differing pace by LoB and region
- Previous forecasts for inflation (upon which assumptions were set) are diverging from expectations



Work with Claims teams to determine what is and isn't in the data – how does economic inflation drive claims inflation, are there any lags?



Determine what additional allowance needs to be made for 'Incurred But Not Enough Reported' as well as pure IBNR



Benign AvE experience may be due to claims inflation not emerging in the data at the pace assumed



Consider duration and level of inflation - mean reversion?

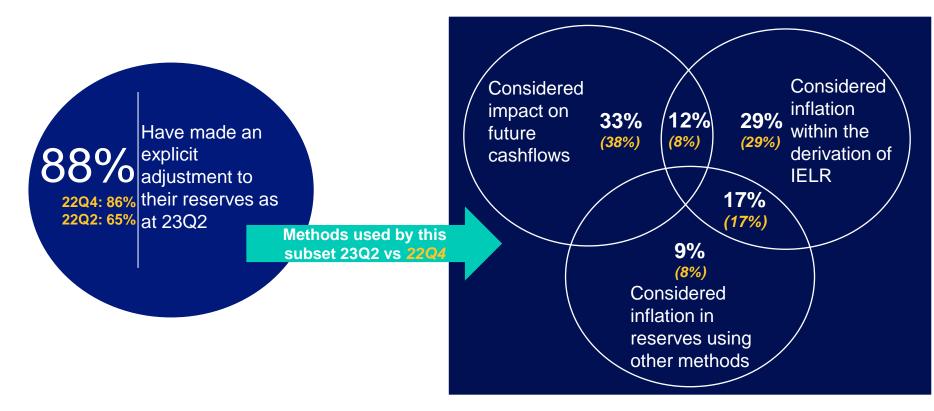


Feedback loops critical between planning and capital

### Inflation: The latest review

The market appropriately considered the heightened inflationary environment as at 2022YE

Oversight at 2023Q2 focused on syndicates that have made changes to their methodology, or a material change in the quantum of the explicit inflation allowances...

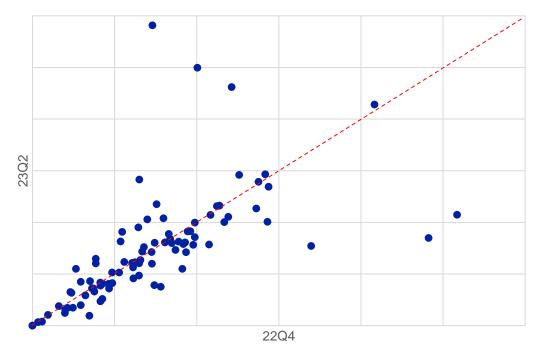


#### ...methodologies adopted as at 23Q2 have broadly stayed in line with 2022YE

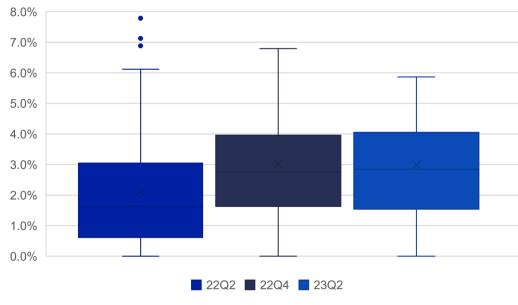
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### Inflation oversight: The latest review

... the explicit inflationary allowance in the market as at 23Q2 is generally similar to 22YE, the range in net uplifts is less broad.



Explicit inflationary allowance - 23Q2 vs 22Q4



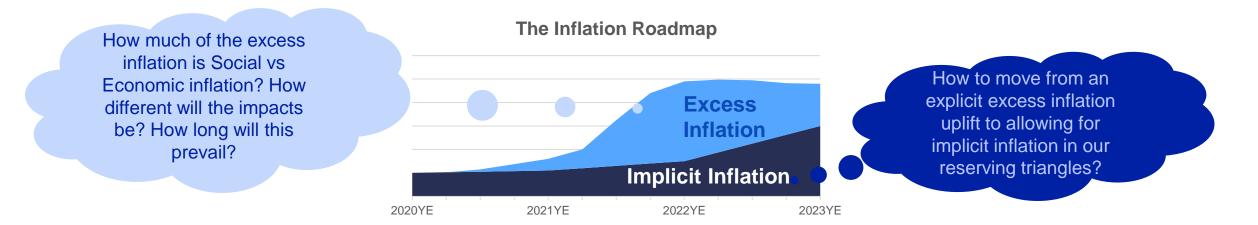
Change in explicit inflationary allowance

Average uplift to net reserves as at Q2 2023: 2.9%

### Inflation: Oversight plans for 2023 HY2

Phase 2 Oversight

The Market will need to consider the transition from explicit inflation uplifts to the assumption that inflation impacts are implicitly included in the claims data and projected forward...



#### ... we will conduct market oversight at 2023YE via the Q4 2023 QMA and SAO returns

## Inflation: Oversight in 2023 HY2

### Good practice from existing framework



Governance and challenge: Governance framework for inflation; cross-functional oversight and board challenge



Feedback Loops: Reserving team considers/validates inflation oversight by other functions.



Validation: To gain comfort in respect of inflation assumptions



Uncertainties: And how these are considered, including additional loads; a range of estimates, and selecting pessimistic views

### Inflation: Oversight in 2023 HY2

### And what we would expect you to consider for Q4 2023



**Monitoring data:** Are syndicates monitoring data and considering the associated impact on inflationary allowances, as these trends emerge in the data?



Lag effect: For lines of business where trends are yet to emerge, have you considered whether there is an underlying lag effect in claims inflation?



Case Estimates: Have case reserves been updated to allow for claims inflation?



**Benchmarks:** Are the benchmarks selected appropriate given the specificities of the syndicate book? Are syndicates appropriately monitoring the changes in economic indices and any other external benchmark information?



Drivers of inflation: For emerging trends, is the syndicate able to identify the specific drivers of claims inflation?

Classification: Unclassified

## Inflation: Oversight in 2023 HY2

Additional information return

Similar to 2022YE, there will be an additional information return for 2023YE in respect of inflation.\*

#### Familiar from 2022YE

- The explicit adjustments made to capture inflation in the reserves as at 2023 Q4
- A comparison of inflation allowances versus the syndicate
- How the comfort is gained in respect of reserve adequacy
- Description of approach and how there is comfort that the approach captures the impact on all years of account and specificities of all classes.

#### New for 2023YE

- Signing actuaries to complete the template at class of business level
- How the impact of inflation is monitored in the data.
- Class specific considerations, including how the lag effect has been considered, in particular for long-tailed lines of business

\*Inflation return available (Jan 2024): Lloyd's Reserving Guidance and Support Materials - Lloyd's (lloyds.com)

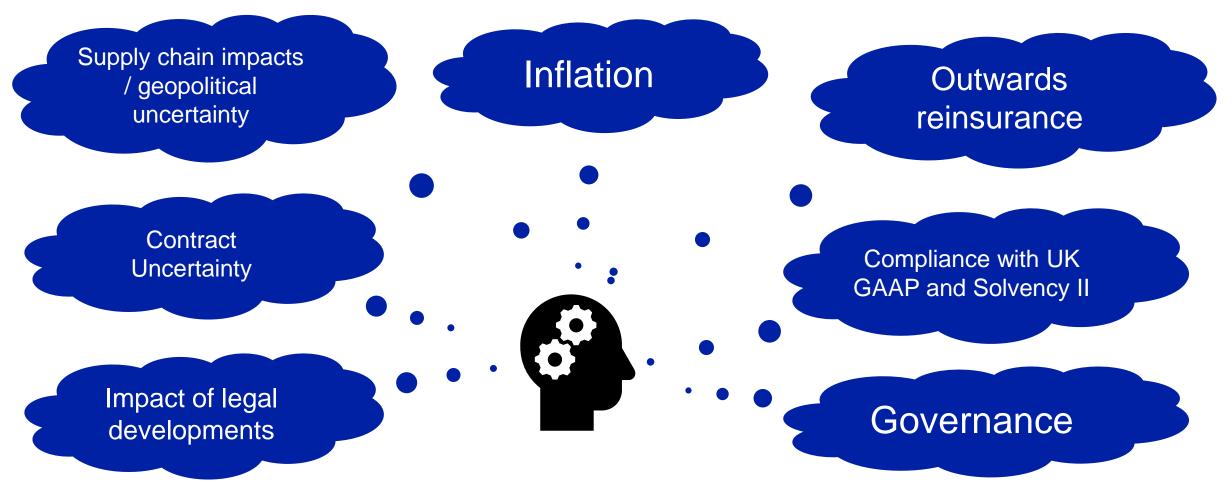


# Key Reserving Uncertainties - Ukraine

Hazal Karakurt – Senior Actuary

### **Ukraine Crisis: Considerations for Reserving**

We have set out some key areas we think should be considered for Ukraine reserving



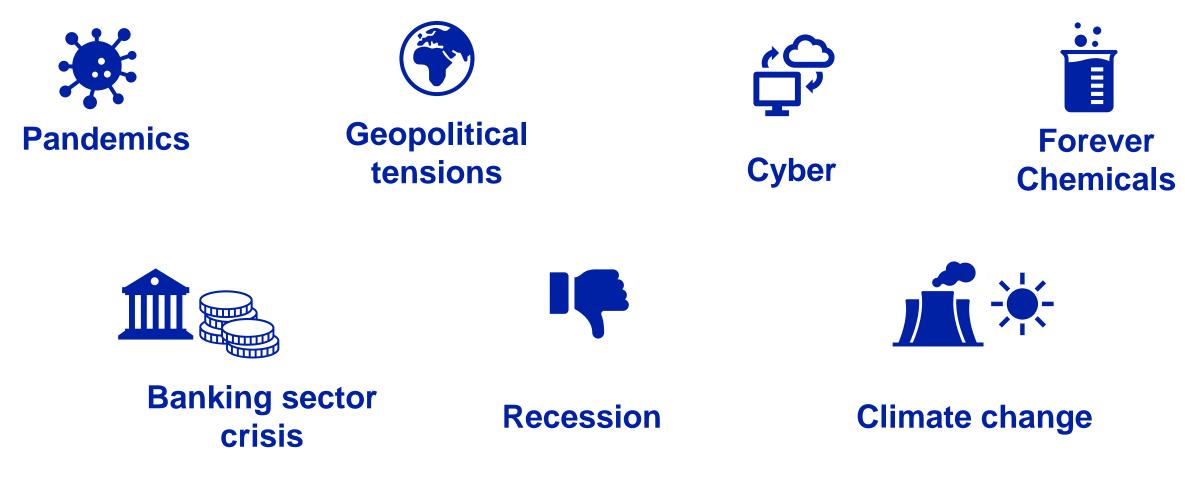


## **Risks on the horizon**

Hazal Karakurt – Senior Actuary



### Sources of potential uncertainty on the horizon



### **Geopolitical Risks**

Allowance for the unstable global economic, political and social environment impacts within reserving

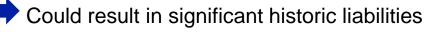
- The current economic, political and social environment, as well as behaviour trends driven by climate change, increases the volatility and uncertainty associated with future claims.
- It means that future claims costs are likely to be higher than those indicated by historical data given both increased claims frequency and claims severity, as well as the emergence of new types of claims, the combined impact of which is heightened aggregate claims costs.
- In particular, social and civil unrest is likely to result in strikes, protests and lobbying action, and the stressed economic environment is likely to give rise to increased levels of fraud, as well as increased propensity to claim. Combined, these may result in aggregation risks with higher volumes of lower value claims, changing the risk profile for some classes including Terrorism and Political Risks and Credit and Financial Guarantee.
- Non-Marine General Liability and Non-Marine Casualty Treaty are also exposed to the potential for heighted claims costs arising from this stressed environment.
- The changes in the world within which we are operating should be considered in reserve setting.

Economic Environment	Political and Social environment
Increased Fraud	Claims events arising from social and civil unrest
Increased Propensity to claim	Impact of government and regulatory decisions
Increased claims costs driven by inflationary environment	Emergence of new claims types and movements

## **Climate Change - Litigation Risk**

Many different types of climate litigation, e.g.

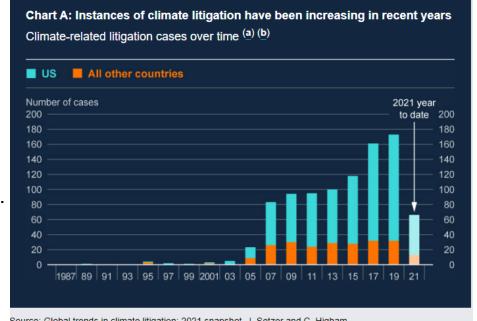
- Responsibility for financial loss from climate change against "Carbon Majors"
- Challenge of high-carbon-emitting activities at different points of the lifecycle (from financing to project approval)
- Cases by shareholders/investors due to misinformation/failure to disclose climate risks
- "Strategic cases" aimed at influencing the broader debate, e.g. against government frameworks
- "Climate-washing" cases climate misinformation and misleading green claims by corporations



LMAG talk in February highlighted which classes might be impacted/what reserving actuaries might want to think about Feedback from PRA on CBES – (re)insurers struggled to understand their exposures – that's where we need to start

Plan to conduct a thematic review in 2024 to understand this further

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### **Large Loss Wordings**

#### **Existing Large Loss Wordings**

Wording	Wording Description
Wording 1	I am satisfied that the company/syndicate has no material exposure to the Large Loss.
Wording 2	The company/syndicate has material exposure to the Large Loss. However, this exposure does not lead to a material increase in the uncertainty of the company/syndicate's total reserves [in an adverse direction].
Wording 3	The company/syndicate has material exposure to the Large Loss. This increases the uncertainty of the company/syndicate's total reserves, but does not increase that uncertainty [in an adverse direction] significantly beyond the normal range of uncertainty for insurance liabilities at this stage of development.
•	The company/syndicate has material exposure to the Large Loss. The ultimate amounts of these claims are subject to a great deal of uncertainty which, combined with their total size, increases the level of uncertainty for the total reserves of the company/syndicate significantly beyond the normal range of uncertainty for insurance liabilities at this stage of development.

- Lloyd's is aware that the Climate Change Reserving Working Party is reviewing potential areas of limitations of the existing large loss wordings
- 2023 Year End SAOs reporting to Lloyd's is expected to be on the existing Large Loss Wordings Framework (as shown above)
- Lloyd's will start consultations with market participants including Signing Actuaries during 2024 for any potential changes to the Large Loss Wordings

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# **Closing Remarks**

Rebecca Soraghan – Interim Head of Actuarial Oversight

## Summary



#### There is a lot going on and it doesn't seem to get easier!

<u>Several areas to consider for 2023 year end reserving</u>: our expectation is that each area of uncertainty is explicitly allowed for such that there is a good understanding of what allowances are contained within the best estimate reserves to enable effective monitoring over time. This should be coupled with clear communication to your Boards of best estimate allowances and the ranges/scenarios around these to demonstrate the uncertainty.

#### Key take-aways for 2023 year end reserving:

- 1. Casualty Reserving continues to be a focus area for Lloyd's and we will continue to do oversight on these classes particular on the FinPro lines of business
- 2. These are classes that generally require supplementary reserving analysis over and above the traditional actuarial reserving techniques
- 3. Inflation is in the secondary phase and you will need to consider the transition from explicit inflation uplifts to the assumption that inflation impacts are implicitly included in the claims data and projected forward.

Finally, we highlight that the risks on the horizon may be different to what we have experienced in the past and we need to be prepared for more systemic interlinked risks and develop appropriate frameworks to appropriately reserve for these as they manifest

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### Questions



## **Key Contacts**



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