

# Inflation Impacts on the Lloyd's Insurance Market – The actuarial perspective

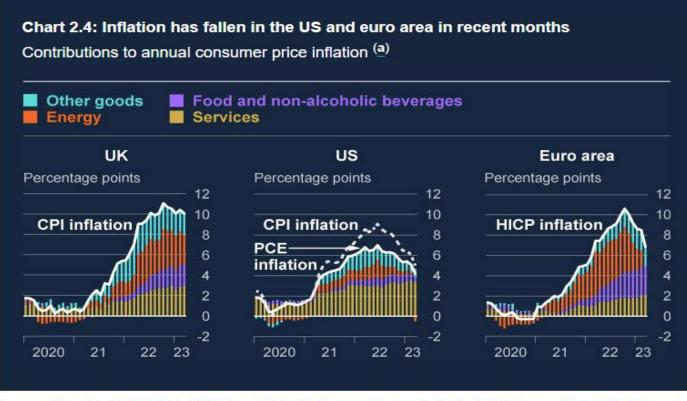
**Mirjam Spies – Lloyd's Interim Chief Actuary** 

13 July 2023



# **Inflation - Background**

### The "look how bad inflation is" graphs



Sources: Eurostat, ONS, Refinitiv Eikon from LSEG, US Bureau of Economic Analysis, US Bureau of Labor Statistics and Bank calculations.

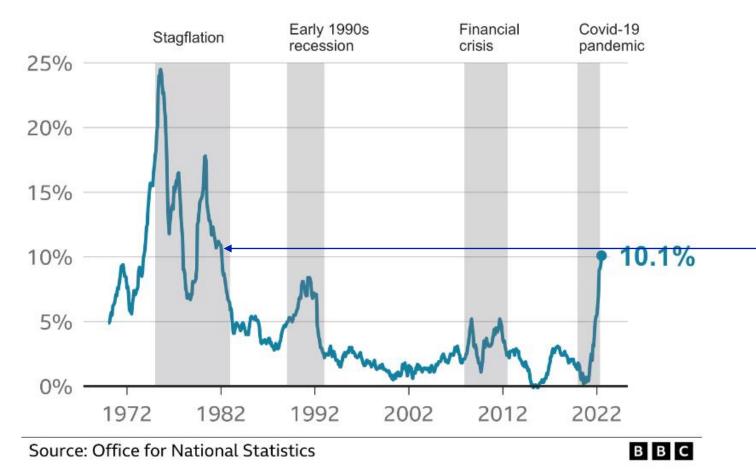
(a) Energy includes fuel and household energy bills. Other goods is the difference between overall inflation and the other contributions identified on the chart, and therefore includes alcohol and tobacco. The latest data are March 2023 outturns.

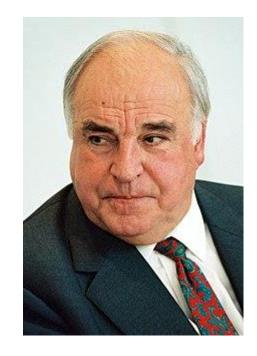
Source: Bank of England Monetary Policy Report May 2023

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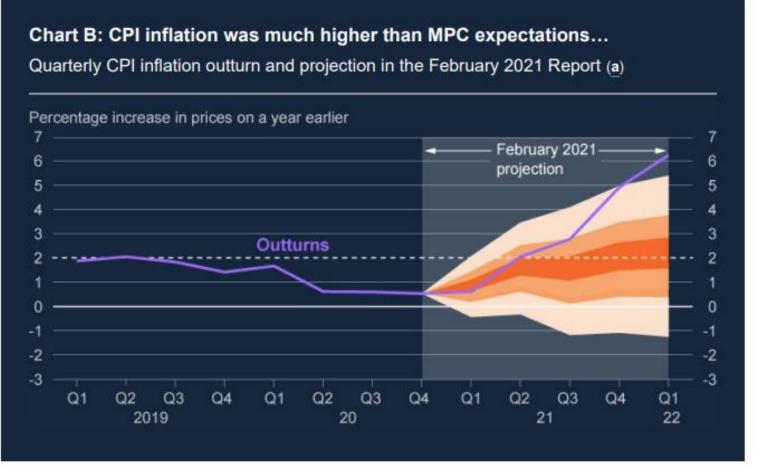
### Inflation is at its highest since 1982

Consumer Prices Index





### The "look how bad inflation could get" graph



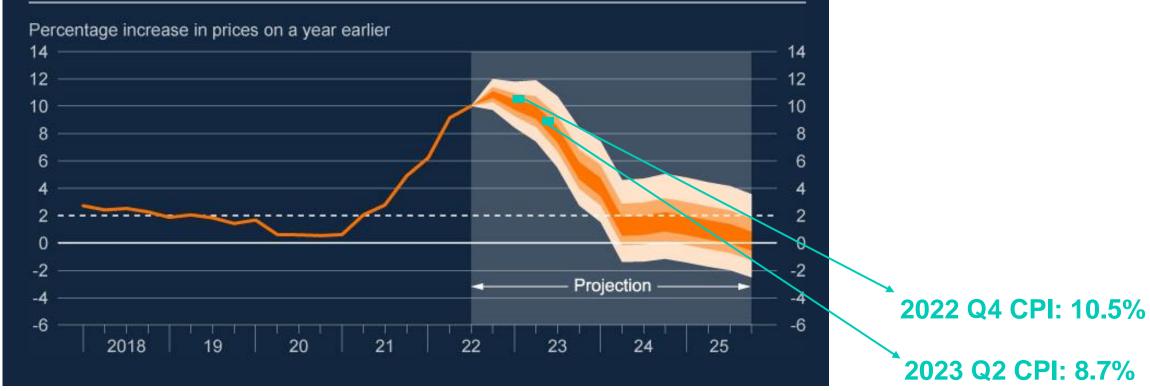
The development of inflation was not expected last year – not even as a "worst case" scenario.

18 July 2023

Source: Bank of England Monetary Policy Report May 2022

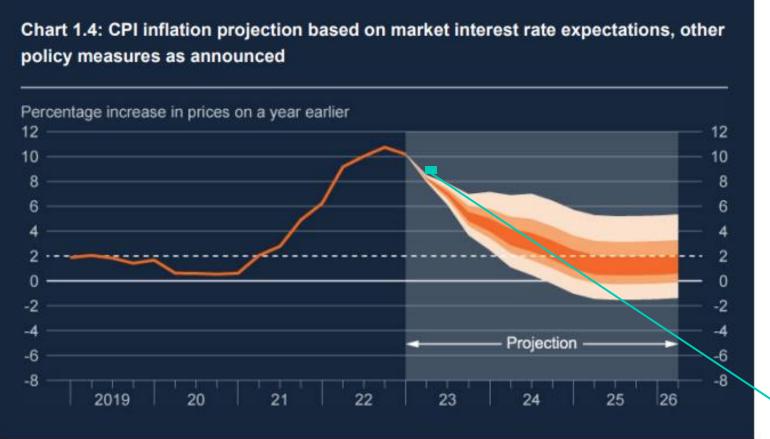
### The "look how bad inflation could get" graph

Chart 1.4: CPI inflation projection based on market interest rate expectations, other policy measures as announced



Source: Bank of England Monetary Policy Report November 2022

### The "look how bad inflation could get" graph



When will inflation come down again?

How quickly will the target be reached?

How far off can projections be?

2023 Q2 CPI: 8.7%

Source: Bank of England Monetary Policy Report May 2023

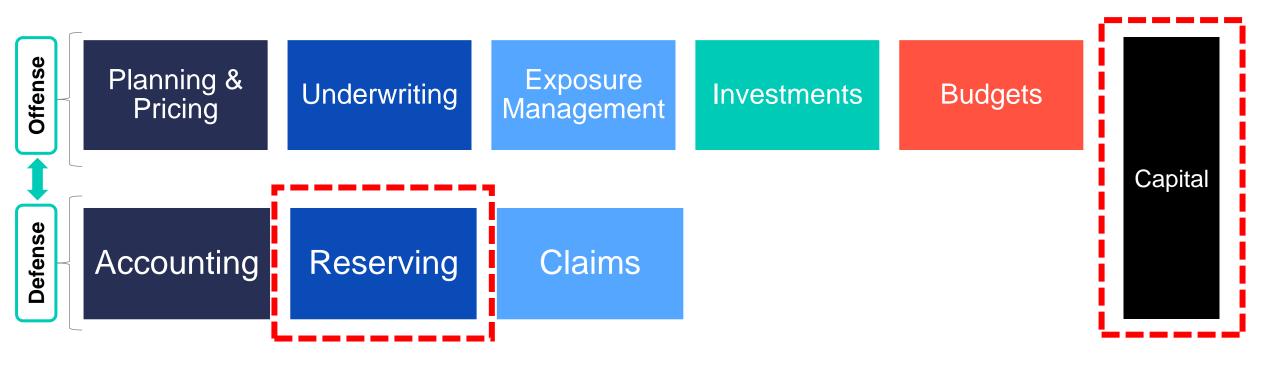


# **Inflation - Impacts**



### Inflation impacts MOST areas of the business

Is there a holistic approach to inflation across the business?





Does the business have a joined up approach and view on Inflation?

### **Co-ordination on Inflation**

Who is leading on the co-ordination of inflation?

Are you talking the same language?

Pricing and Underwriting	Exposure Inflation	+	Other Inflation
Reserving	Historical Inflation	+	Excess Future Inflation
Capital	Economic Inflation	+	Excess Inflation



## Lloyd's definition

Claims inflation - change in claims cost of a like for like policy over time.

Claims inflation is the sum of **economic inflation** and **excess inflation**:

- Economic inflation: published economic indices relevant to a (re)insurer's mix of business.
- Excess inflation: beyond what is captured in economic indices

Social inflation as a subset of excess inflation - as a result of societal trends.

### LLOYD'S

(Claims)

# **Quick refresh: Lloyd's inflation review and communications**

Presentations, report and guidance issued across Reserving, Capital & Planning

### Reserving

- Thematic review on claims inflation report (Q2 2022)
- Lloyd's Market Presentations
  - LMA Finance Committee ٠ NED session (June 2022)
  - London Market Actuaries Group (July 2022)
  - General Insurance Actuarial Conference (November 2022)
- **Reserving Technical Guidance** Issued (June 2022)
- Quarterly reviews of standardised ٠ market returns from Q2 2022



- Capital Technical Guidance Issued (July 2022)
- Inflation reviews as part of capital ٠ and planning for 2023 YoA

Plus the **PRA Dear Chief Actuary Letters** (October 2022) - with reference to Lloyd's Reserving Technical

Classification: Unclassified

Guidance and follow up in June. Lloyd's guidance planned in July 2023 (Risk Management) and September 2023

- SBF Guidance updates for 2023
- Inflation reviews as part of capital and planning for 2023 YoA

### Lloyd's expectations of syndicates

Lloyd's has issued guidance on Reserving, Capital and Planning for inflation allowances

#### Reserving

### Syndicates are expected to:

- Consider inflation explicitly as part of the best estimate reserving by class of business and geography
- Be able to clearly explain how inflation has been allowed for to allow challenge from various stakeholders
- Take a considered and balanced approach to allow for inflation which reflects the specificities of your risk profile

### Capital

Syndicates are expected to:

- Reflect the current economic conditions in their capital models
- If used, ensure that the economic scenario generator (ESG) is appropriate and validate the outputs
- Perform sensitivity testing on inflation volatility
- Conduct Stress and Scenario tests related to the heightened economic inflation and potential for recession

### Planning

Syndicates are expected to:

- Consider claims inflation explicitly as part of business planning by class of business
- Report on how inflation assumptions have been made
- Understand inflation captured within exposure changes versus other inflationary pressures that may be need to be priced for

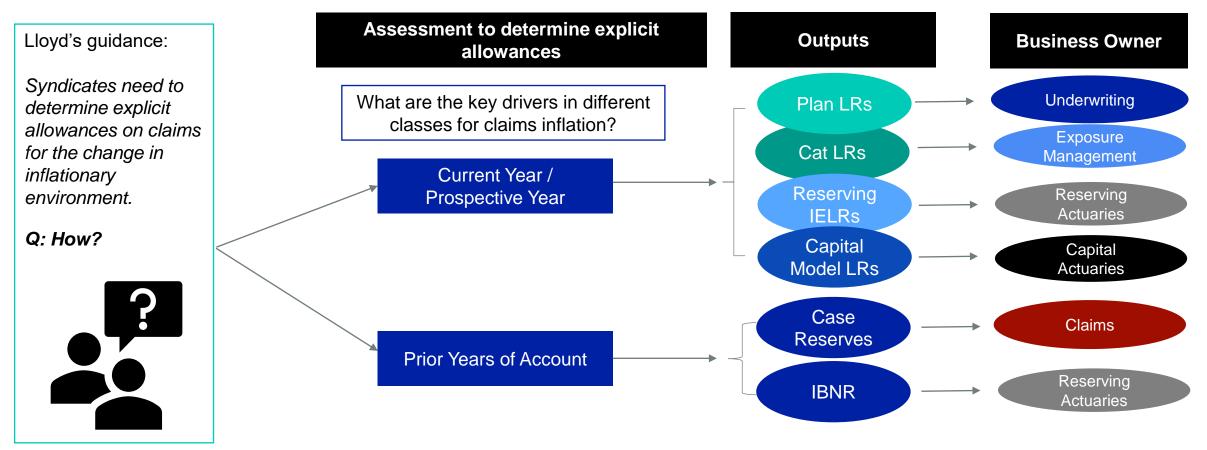
LLOYD'S

Reserving

### How to determine claims inflation allowances (for past and future claims)?

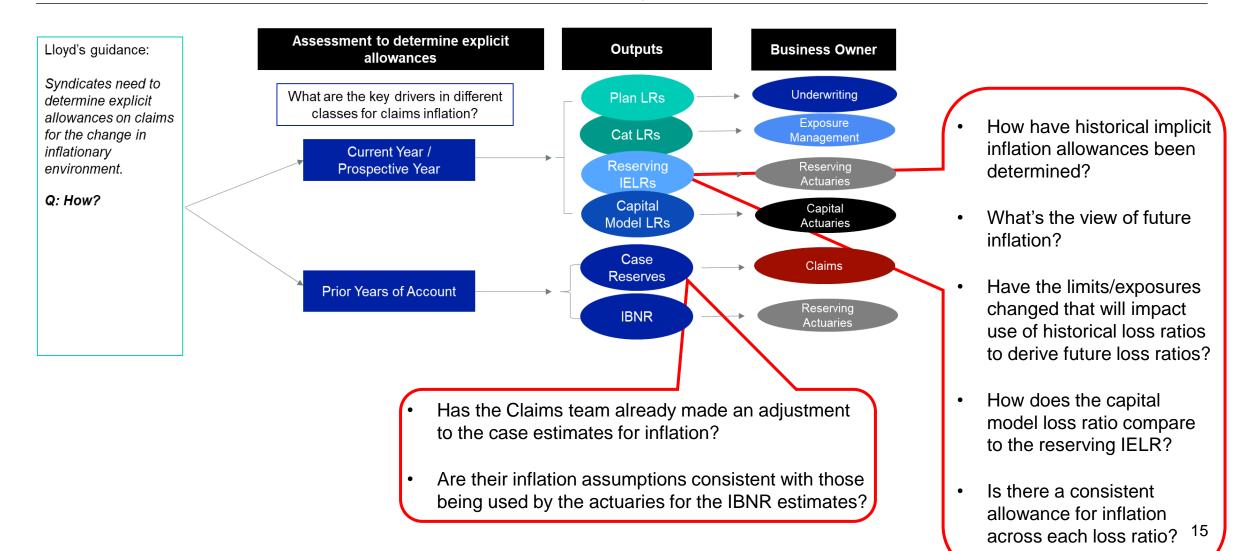
Joining the dots across the business

There needs to be a joined up approach across the business as the outputs are interlinked



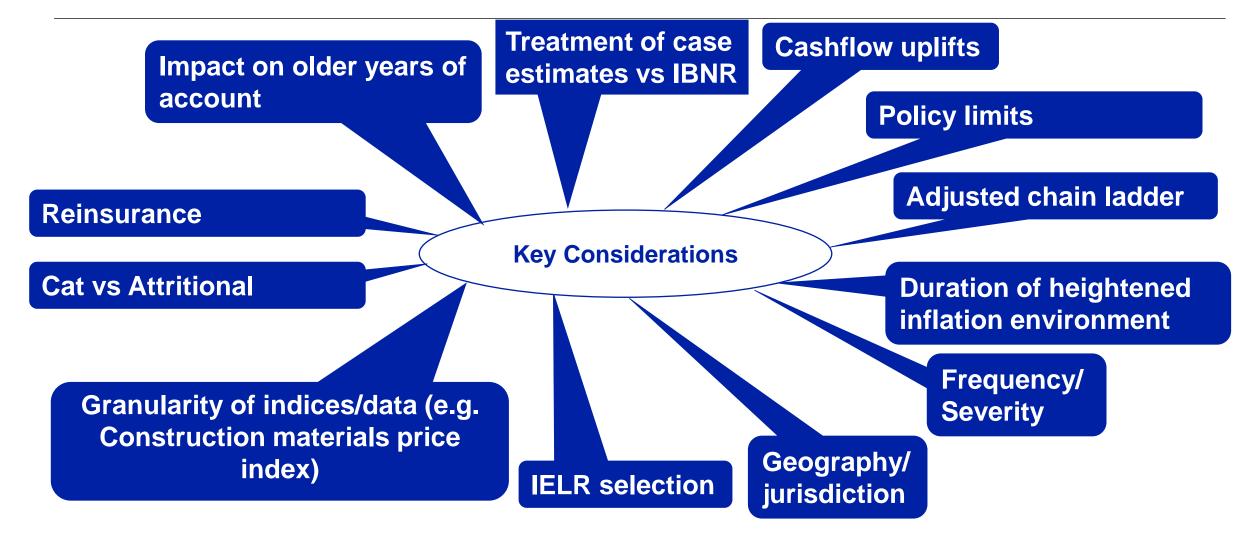
## Why joining the dots is important

Ensures that inflation allowances are robust and any differences in view are known to the business



### LLOYD'S

### Inflation uplift methodology and assumptions



Reserving

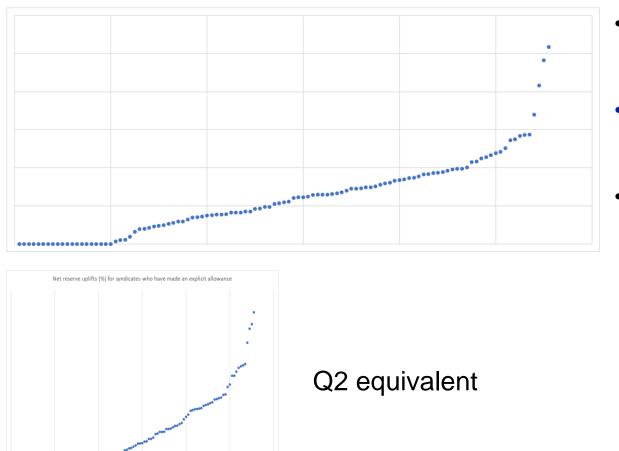
### Market has updated approaches for inflation as at 2022YE

Based on our review of the QMA return as at Q4 2022, broadly the market has explicitly allowed for the change in inflation within the reserving.



# Explicit reserving inflation allowances as at Q4 2022

There was an uplift to net reserves as at Q4 2022 based on our review of QMA templates



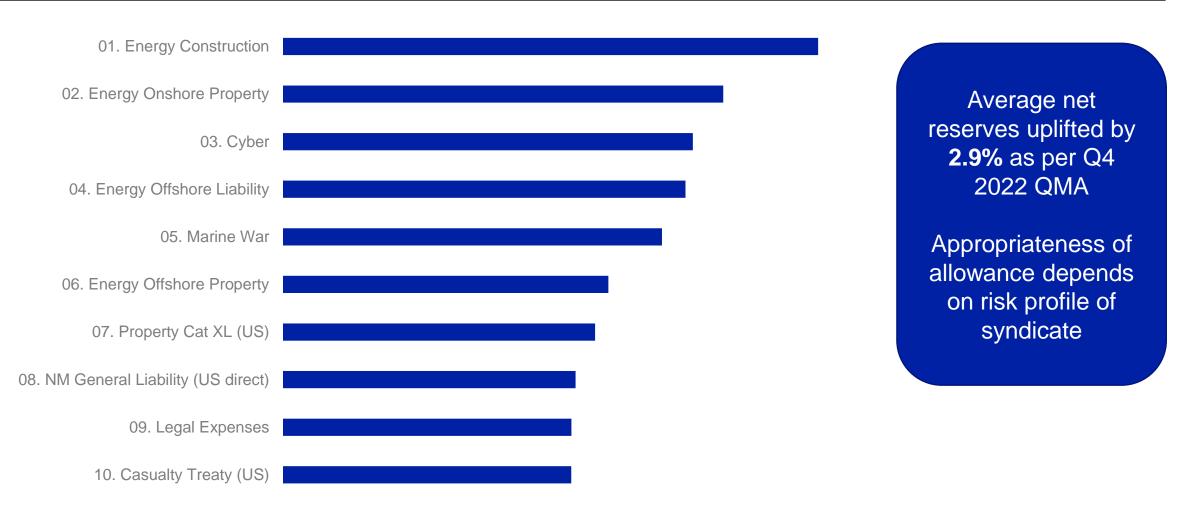
#### Net Reserve Uplift (%) for Syndicates that made an explicit allowance

- The was an overall uplift to net reserves as at Q4 2022 of 2.9% (2.3% at Q2).
- The appropriateness of the allowance depends on the risk profile of the syndicates
- In cases where explicit allowances were not made (i.e. not considered) at Q4 2022 Lloyd's performed additional oversight on each Syndicate to determine if this was appropriate.

Reserving

### Market's Inflation Uplifts to Reserves by Class

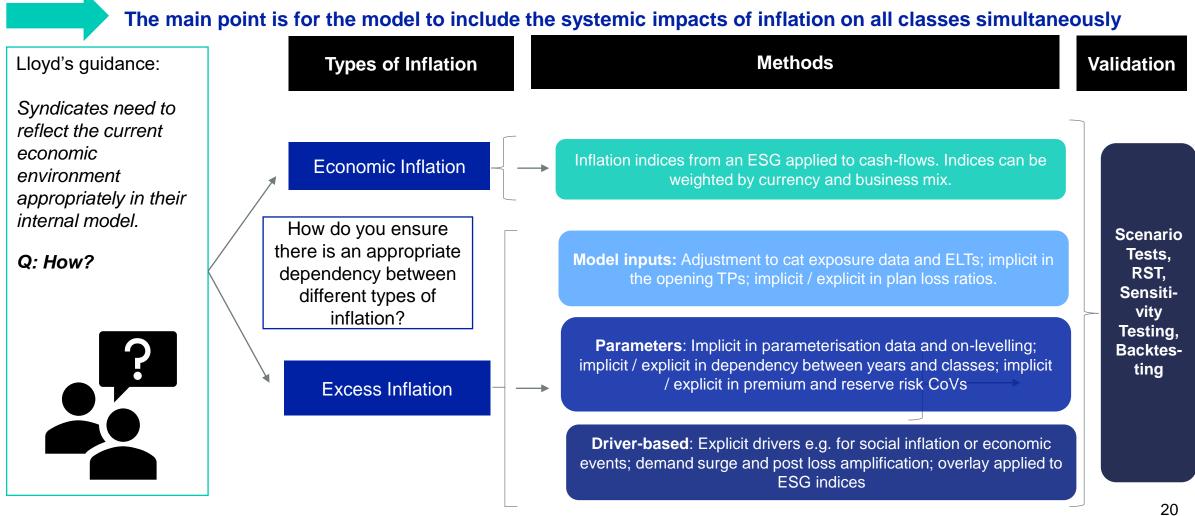
Market view inflation allowance – Top 10 classes



### LLOYD'S

# How to allow for appropriate claims inflation volatility?

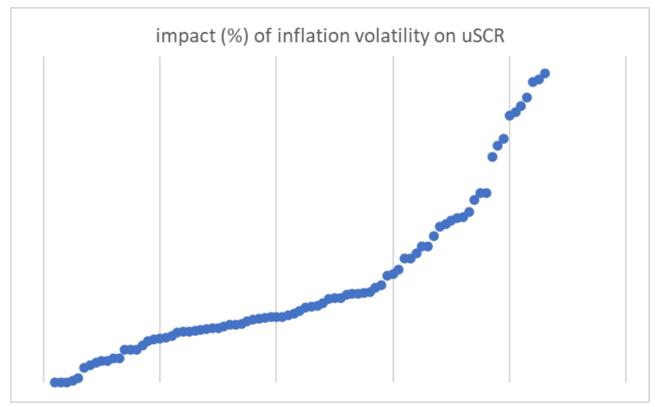
There is not a one size fits all approach



#### Classification: Unclassified

### Inflation allowances for 2023 YoA capital setting

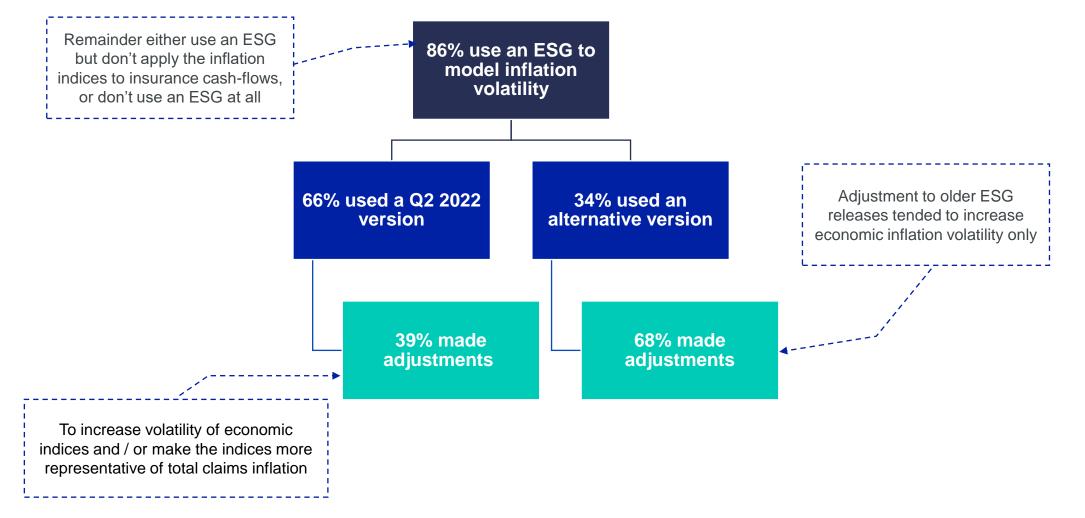
Varied impacts with wide variety of approaches to run this test



- The impact of economic and excess inflation allowances in models varies significantly.
- The appropriateness of the allowance depends on the risk profile of the syndicates.
- This test was designed to test the impact of volatility allowances related to inflation. For economic inflation the most common approach was to remove the impact of the ESG inflation. For excess inflation the approaches were varied as a lot of syndicates make implicit allowances.
- In general syndicates DID NOT remove mean allowances in the reserves or plan loss ratios for this test or allowances in the cat models.

# **Economic Inflation**

### Key Findings – Economic Scenario Generators

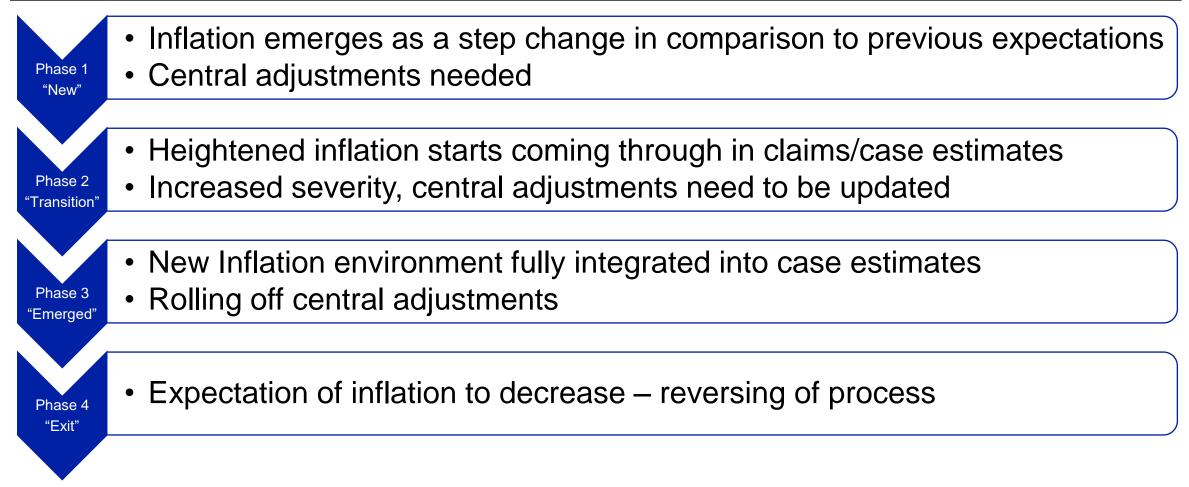




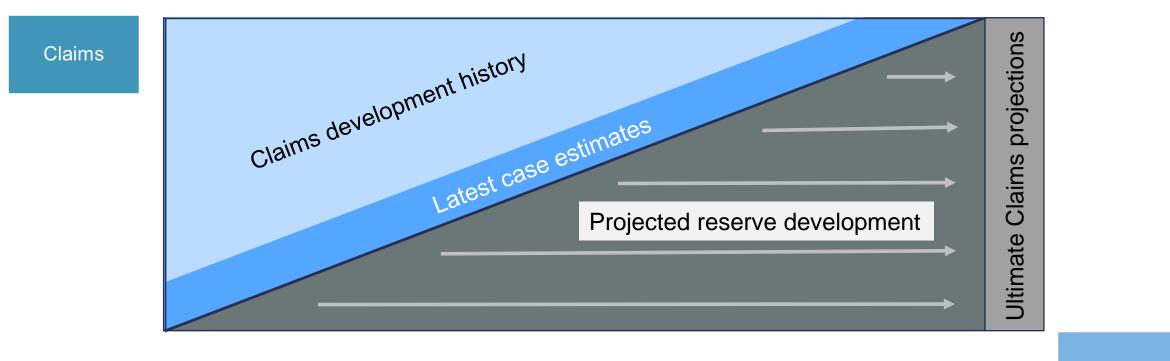
# **Inflation – What next?**

### Inflation – Entering a new phase

After central adjustments have been made – what is next?



### **Co-ordination between claims and reserving Phase 2 might be the hardest bit yet**



Are there gaps or double-counting? Are you making consistent assumptions? Reserving

### Where could we go wrong?

Underestimating future claims inflation can have a significant effect on the financial strength

### Adequacy of reserve strengthening in 2022 – risk for deterioration in 2023

- Duration and level of future inflation how quick is the "mean reversion"?
- How does economic inflation translate into claims inflation?
- Lag of economic inflation affecting claim settlement costs make assumptions more uncertain
- It will be difficult to identify inflation effects in case reserves to validate any projections

 Underestimating long-term inflationary trends (together with overvaluing market hardening) could overstate profitability (and ultimately result in reserve deteriorations)

<sup>•</sup> Underestimating technical provisions and overestimating profits could lead to lower capital requirements with potential for gearing effects and overstated solvency

Based on: Follow up to the letter: Insights from PRA thematic review of general insurance reserving and capital modelling

### How to develop a holistic view of inflation for the business

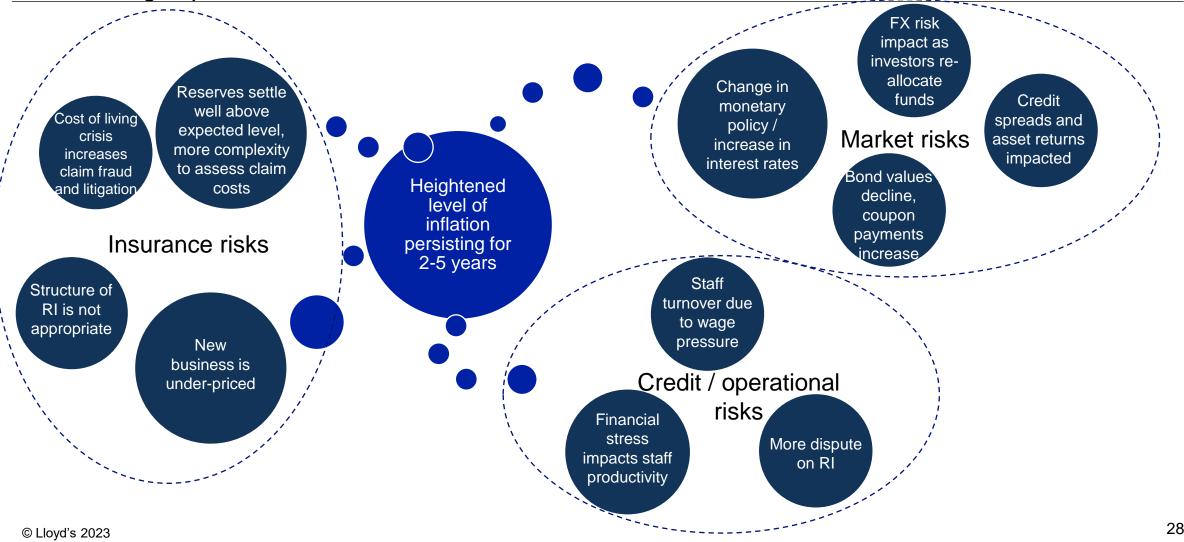
Highlights from a review of the ORSA reports

### **Best practice syndicates consider:**

- Cross Functional Feedback Loops working group with a clear remit and decision-making transparency
- Holistic view of impacts consideration of all different areas
- Acknowledgement of this as a systemic risk and mitigation considerations across all areas
- Linking to the external environment clarity on how internal view relates to different forecasts
- Clear visibility of the judgements (e.g. impact and duration of inflation at board level)
- Longer term view of capital impacts
- Stress and scenario tests are holistic and consider full balance sheet impacts on key risks across assets, liabilities and operations
- A range of stresses is performed at different likelihoods and severity, considering inflation but also combination with recession (stagflation) and other external factors highlighting the interlinkages

# **Scenario testing**

### Considering impacts across all risks



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## Summary – how to deal with heightened inflation

Examples of questions the Board could consider asking



- How have judgements on inflation been made in particular the duration and level of heightened inflation and the level of volatility?
- How has the company view been translated into adjustments for the different areas of the business? Has this been consistent?
- Has there been sufficient justification for the level of inflation allowances made in the reserves and capital? How have inflation views been translated into impacts? What is in best estimate reserves what in margins?
- Top down how impactful do you think inflation should be? Does the reserve impact/allowance in the internal model fit your thinking? If not, do you understand why?
- How is the company dealing with phase 2 i.e. how will adjustments be changed as case reserves are updated?



# **Questions?**

# LLOYD'S

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