

### Agenda

- Introduction
- Reporting
- · Actual vs. expected
- Roll-forward
- Issues impacting the process
- Conclusions

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### **Glossary**

- IFoA UK version of CAS.
- Solvency II recent regulatory reporting basis for solvency purposes to be implemented throughout the EU from 1/1/16 (initially anticipated to be implemented 2012).
- Underwriting year reserving/reporting basis that includes not only unexpired risk on written policies, but also policies still to be written for the remainder of the calendar year (plan basis).
- Fast close high-level assessment of experience in the (short) period since a full analysis was carried out to determine the financial bookings as at a balance sheet date.
- BAU business as usual process.

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### Background - UK/EU market

- Reporting requirements have been expanding steadily. Started as GAAP and Underwriting Year. Moving to including Solvency II and IFRS
- · Regulatory requirements and definitions changing/evolving continuously.
- Deadlines moving forward Solvency II reporting started at 6 months during trial period, moving to 8 weeks then to 5 weeks from balance sheet date
- Basis of these reporting standards very, very different to each other: GAAP vs. full policy year vs. cashflow on bound contracts.
- Consistency and comparison a major and increasing issue (Solvency II = best estimate, GAAP = prudent)
- Regulatory one-upmanship/ gold plating

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### Background - Working party/IFoA

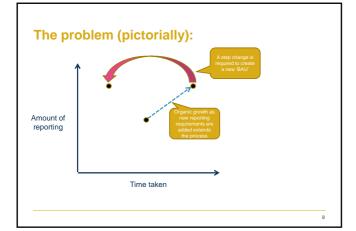
- IFoA the actuarial association within the UK.
- Covers all areas of actuarial work (Life, Pensions, GI (P&C), investment etc.).
- GI is relatively new, and started its own research organisation (GIRO) in 1980's. Initially a series of independently organised groups of actuaries tackling current and mutually interesting areas. Now not very different, although IFoA taking more ownership of output.
- Our working party is part of the IFoA stable, under the Reserving Oversight Committee aimed at generating a base level of knowledge for reserving activities within the profession.
- We have produced a paper on AvE techniques previous to the current work.

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### The problem:

- Limited time between receipt of as at data and reporting deadline.
- Increasing reporting requirements are reducing the time available to study the data.
- Less time for analysis means less accuracy/ increased potential for inconsistency/ increased operational risk.
- Topical or recent events may get disproportionate management attention.
- Unexpected issues can derail the process.
- Management focus can be misaligned with actuarial processes.

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### Early/fast close Fast Reporting • Early: previous full analysis that sets expectations for future experience. Can be a month, quarter or longer (up to a year?) before reporting as at date. Will usually take 4-8 weeks. • Fast: key point is that there isn't time to complete a full analysis at the as at date in the time available (typically a week to report final reserves etc.). • May use AVE or other techniques to provide diagnostics from which to make reserving decisions. • Roll-forward represents the confirmation or adjustment of ultimates for reporting based on the AVE stage. • Reporting: production of data and reports for management/finance etc.

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- Many different types of reporting:
  - Ultimates/reserves (MI/regulatory) actual numbers being included in reports and financial
  - Reports documents describing areas of concern/change
  - Historical data development triangles
  - MI reports/ standardised exhibits
- Timelines for reporting these various elements are not always consistent.
- Underlying importance of each can also vary considerably.
- Fast close exercises may be very high-level, which raises the question as to how much effort should be needed to update such reports
- We believe a key differentiator in prioritising reports is expert judgement

### Reporting requirements Reserving report Board Summary Best estimate/margin split

- Investor briefing Lloyd's Trust funds Lloyd's QMR

- Reserve ranges/ adequacy GAAP (if not primary basis) Solvency II Technical Provisions Cashflow projections
- Future development expectations Allocation/ aggregation
- Audit recs
- Tax reserves
- Management exhibit on ultimates
- Statement of Actuarial Opinion Bad debt
- Bad de
   ULAE

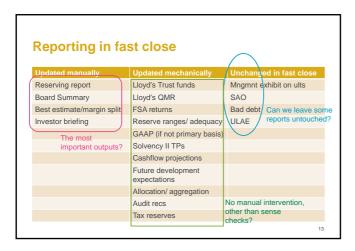
There are a lot of reporting requirements as part of the reserving process

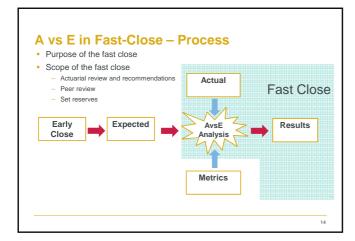
It seems difficult to produce all of these in a very short timeframe as well as producing revised estimates

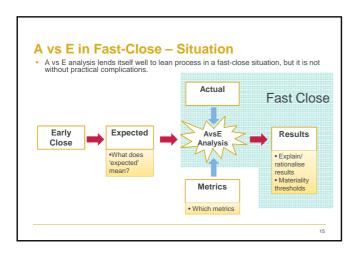
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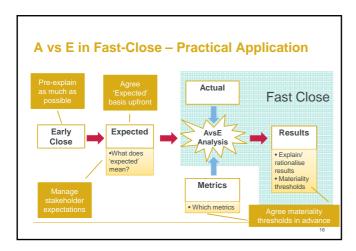
- Cashflow projections Future development expectations Allocation/ aggregation
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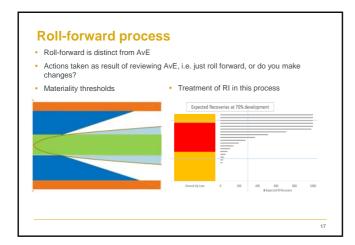
Use the amount of expert judgement required in each output to prioritise (and allocate time) to the update

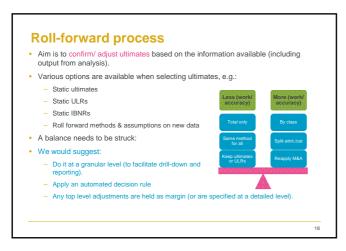












### **Roll-forward process**

### Challenges:

- Likely to need different approaches for different segments (Short tail vs. Long tail, lumpy vs. smooth development).
- The process of selection should be very quick, using various indicators/ defaults to ensure time is spent on the more difficult decisions (automated decision rules, RAG status flags etc.).
- Reinsurance may require a different approach entirely.
- Need to ensure sum of detailed decisions makes sense compared to total diagnostics.
- Raises some cultural questions:
  - Will Boards be happy with "no change"?
  - Will actuaries be happy with "no change"?
  - Does this achieve sufficient accuracy for tertiary uses (base for planning etc.)?
  - Can this approach be extended to replace a "full" quarterly reserving process?
- We suggest that the aim of the exercise is to ensure that movements are based on a limited number of specific known issues/effects to reduce amount of explanation and increase clarity and speed of reporting

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### **Major Issues & Potential Solutions**

Internal	External		
Data/Systems/Processes	Catastrophes/Major Events		
Earlier Data Extracts	Daily Analysis of Updated Data		
Regular Catch-Ups with SMEs	Constant Communication with Claims		
	Stakeholder Management		
Management Interaction	Regulators/Court Rulings/3rd Parties		
Early & Continuous Engagement	Regular Internal Catch-Ups		
Range of Results/Implications	Regular External Catch-Ups/SLAs		
Reserving Policy/Materiality Thresholds	Key Internal Contacts in Place		

• Any other major issues? e.g. FX fluctuations.

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# Implementing fast close 4Q Plan all changes during previous 3Q and 4Q Exercise (ahead of) exercise (ahead of) existing process and size of org. Above timeframe is only indicative - dependent on many factors including current processes and size of org. Will need to parallel run with existing process, perhaps multiple times. Any automation triggers and referrul/intervention flags may need to be refined over time. Pran all changes 3Q – 4Q SQ – 4Q SQ – 4Q SQ – 4Q SQ – 4Q Go live (with adjustments) for 3Q and 4Q Expect to take time to promote the benefits and risk mitigation internally and to any regulators and parents. Result should be a more targeted reserving process, benefit.

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- Set out process and get it agreed by all stakeholders ("rules of engagement"), including thresholds for intervention.
- Ensure communication lines kept open.
- Automate where appropriate to focus on value adding analysis.
- Identify outputs that require manual intervention and determine critical path.
- Use prior detailed analysis to deal with known critical issues in advance of the fast close.
- Consider contingency processes in case of emergency...

Not much different to a normal review...!

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### Our team

- Camilla Bennett
- Neil Bruce (Chair)
- Cameron Heath
- Tim Jenkins
- Katherine Laidlar
- Alastair Lauder
- Gregory Overton
- Joe Ryan
- Keith Taylor
- · Chi Wong

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### **Questions for the audience**

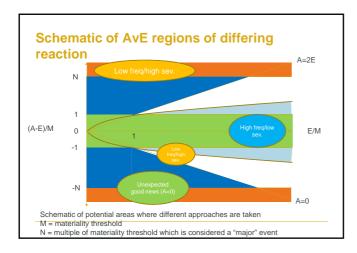
- Quantity of reporting?
- Do you have similar reporting deadlines?
- Approximate RI recoveries approaches
- Use of thresholds
- Roll-forward methods do you use them?
- Cultural issues: reaction to not changing ultimates?

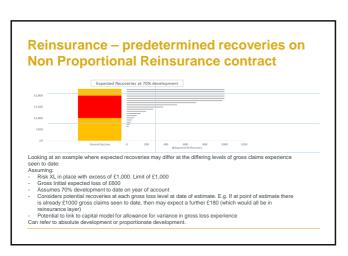
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### **Appendix**

- RI recoveries approaches
- Threshold graphs

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## Reinsurance — predetermined recoveries on Non Proportional Reinsurance contract Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery example given development and gross amount to date. Dispected recovery ex