

#### IFRS 17 Valuation Architecture and System Design

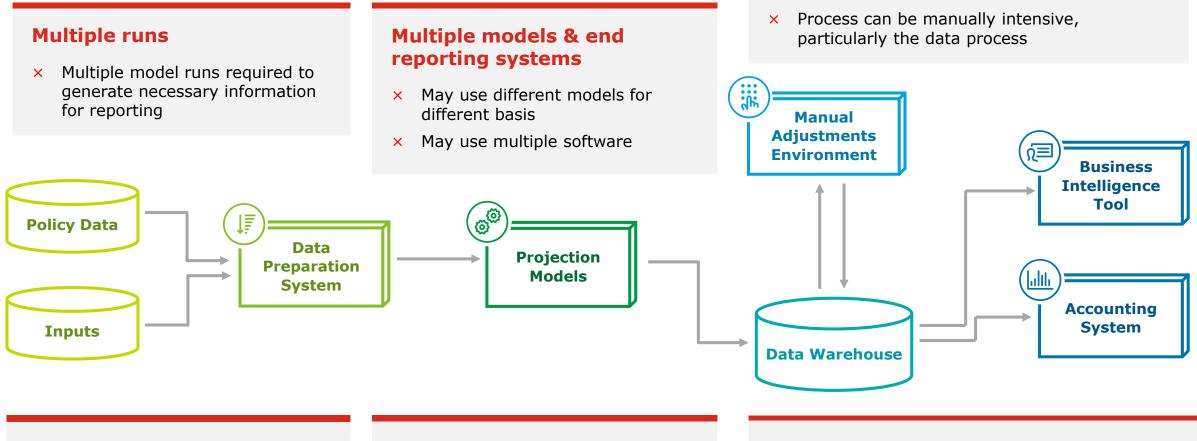
18 September 2018

Agenda Items	Speaker
Introduction	Ciara Regan
Overview of actuarial system architecture	Brendan Guckian
System architecture impacts due to IFRS17	Joanne Lonergan
IFRS17 architecture challenges and pitfalls	Brendan Guckian
System implementation programs	Simon McCann
Actuarial Modelling Centre of Excellence	Marc Fakkel

Valuation Systems Architecture Overview

Brendan Guckian

#### Current end-to-end architecture



#### **Tighter reporting deadlines**

× Solvency II reporting deadlines coming back 2 weeks this year

#### More reporting requirements

 Requirement to report more information as a result of Solvency II

#### **Multiple reporting basis**

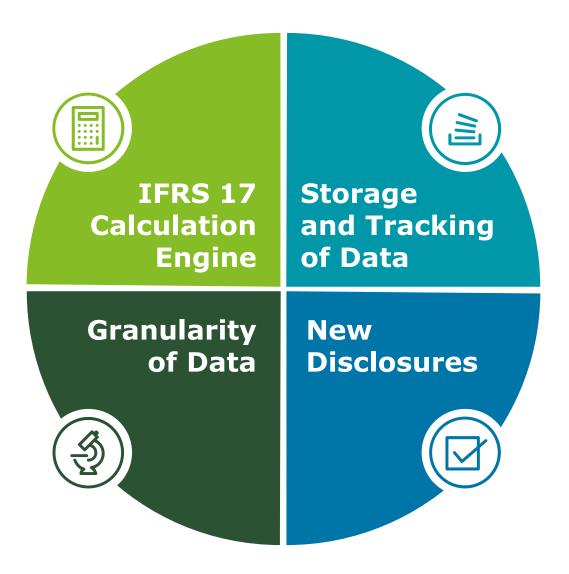
Manual processes

- A requirement to calculate a number of different reporting basis – Solvency II, Statutory reporting, Group reporting, etc.
- × Different tools and processes may be used for each basis.

System Requirements of IFRS 17

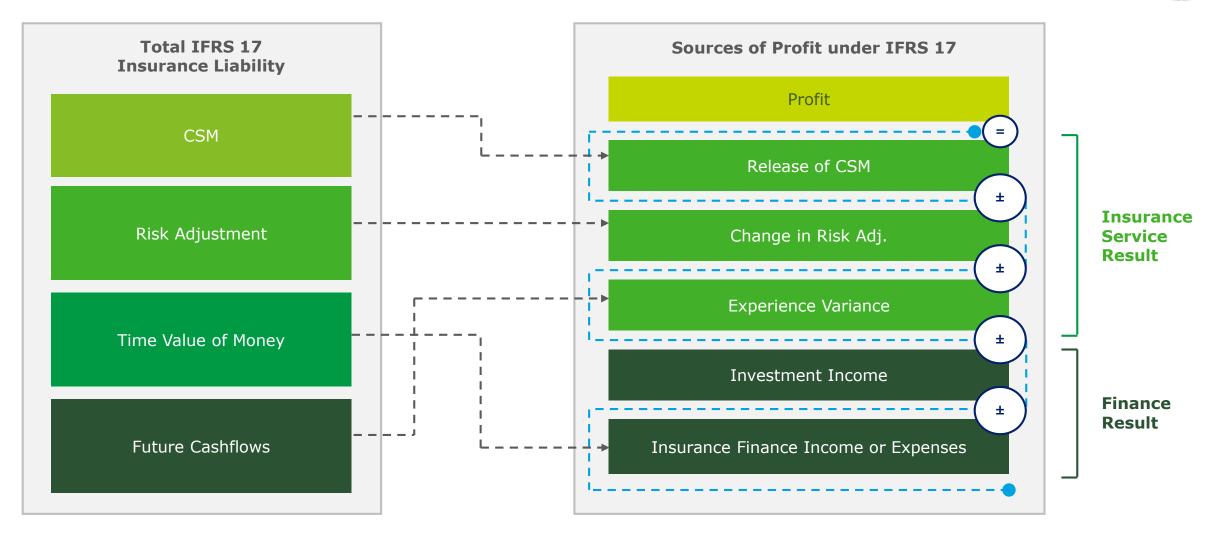
Joanne Lonergan

#### IFRS 17 Challenges for models and systems Overview



#### Additional IFRS17 modelling and system challenges IFRS17 Calculation Engine



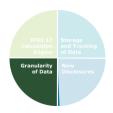


#### Additional IFRS17 modelling and system challenges Storage, tracking and granularity of data





#### Additional IFRS17 modelling and system challenges New disclosures



#### Ledgers

 Update to allow for RA & CSM on Balance sheet and amortization on P&L

#### **Group Systems**

Consolidation now needs to allow for CSM & RA

#### Planning & Forecasting

- Needs to project the CSM & RA
  - New KPIs

#### Management Information

- New Reports/KPIs
- Allowance for CSM

IFRS 17 Challenges for models and systems What then?

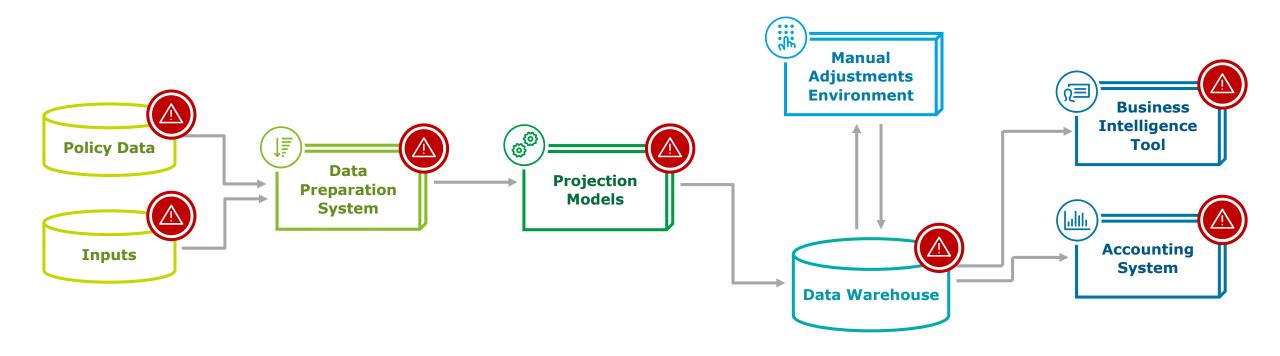
### Can your system be easily adapted for these changes?

### What about the changes needed for IFRS18 and Solvency III?

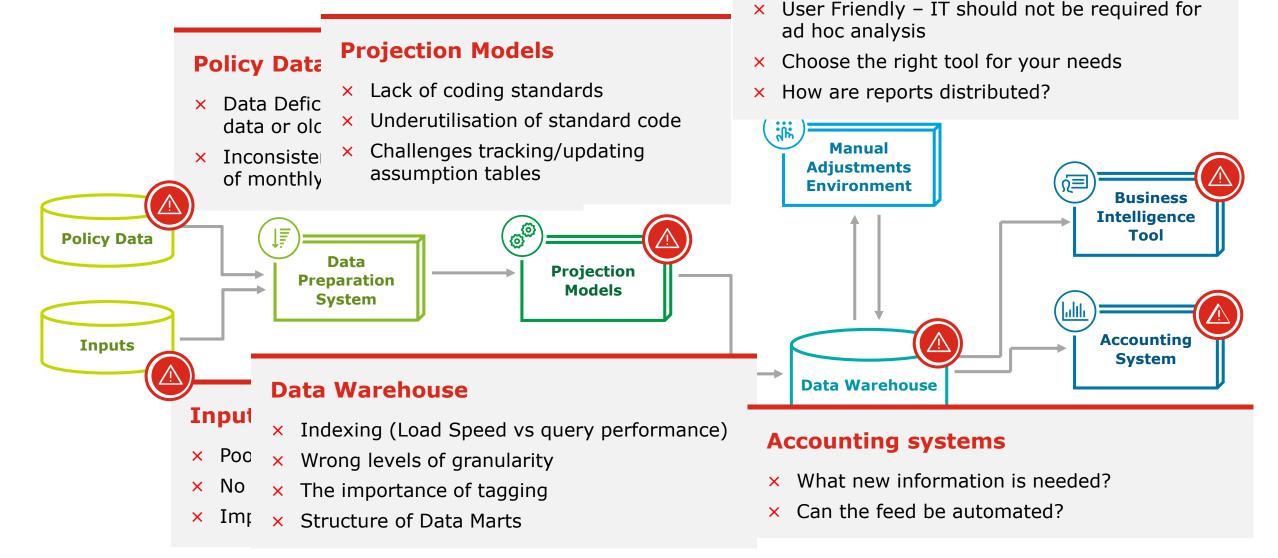
## Reporting Systems

Brendan Guckian

# What changes are expected due to IFRS 17? Where will you feel the heat?



What changes are expected due to IFRS 17? Where will you feel the heat?



**Management Information** 

#### Key System Design Points Things to consider

#### When Building a System



- ✓ Be clear on your requirements
- Ensure you have the correct level of granularity
- Ensure you have the correct data tags
- Build a framework as well as a system



#### When Maintaining a System

- Looks at how changes are implemented not just the financial impact
- Too many sticky plasters results in a mummy

#### **Impacts of Poor Design**

- × Unnecessary volume of:
  - Input Tables
  - Model Instances
  - Master Products
  - Lack of consistency across reporting bases
- × Increased volumes of outputs
- × Longer reporting cycles
- × Higher maintenance costs
- × More maintenance
- × Complexity
- × Really talking about poor requirements and design



- Model Point Files

- Code Duplication

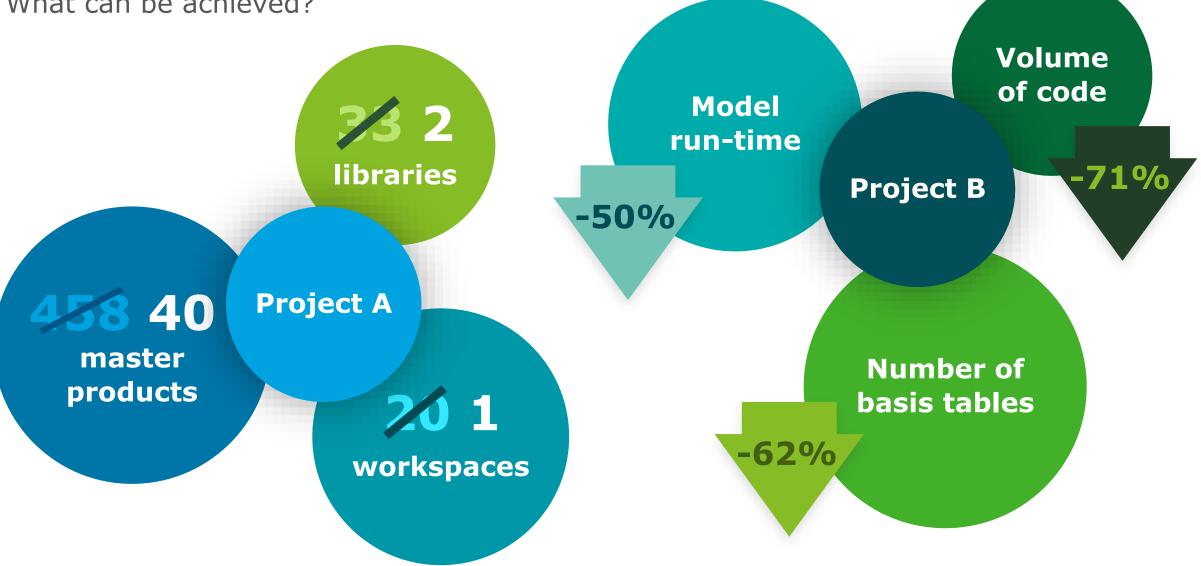
The Ideal Solution What should you aim for?

### **Key Principles**



- Clearly defined framework
- Standardised data formats
- Easy to use, ideally fully automated
- Harnesses synergies e.g. uses Solvency II functionality/models
- Flexible enough to allow for future changes
  - Full data lineage and audit trail
  - Meets your reporting requirements

# Benefits of Good Practice What can be achieved?



# What changes are expected due to IFRS 17? Summary

#### Common Issues & IFRS17 Tips

- ✓ Model Inputs
- ✓ Projection Models
- ✓ Data Warehouse
- ✓ Business Intelligence tools

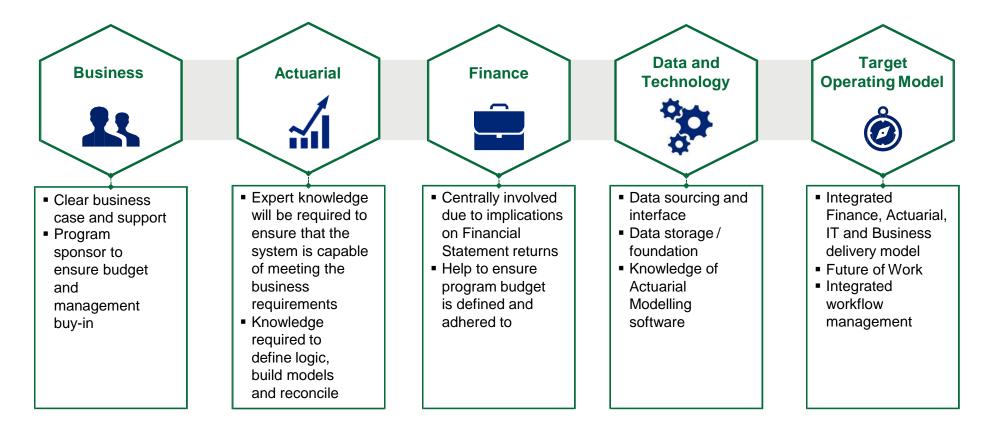
### **Key Design Topics**

Requirements
 Granularity
 Tagging
 Framework

System Implementation Programmes

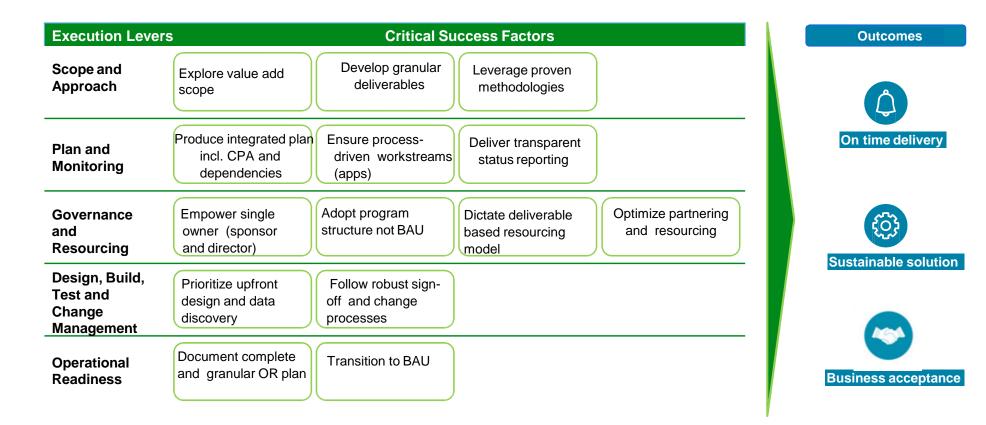
Simon McCann

#### **Actuarial Systems Implementations**



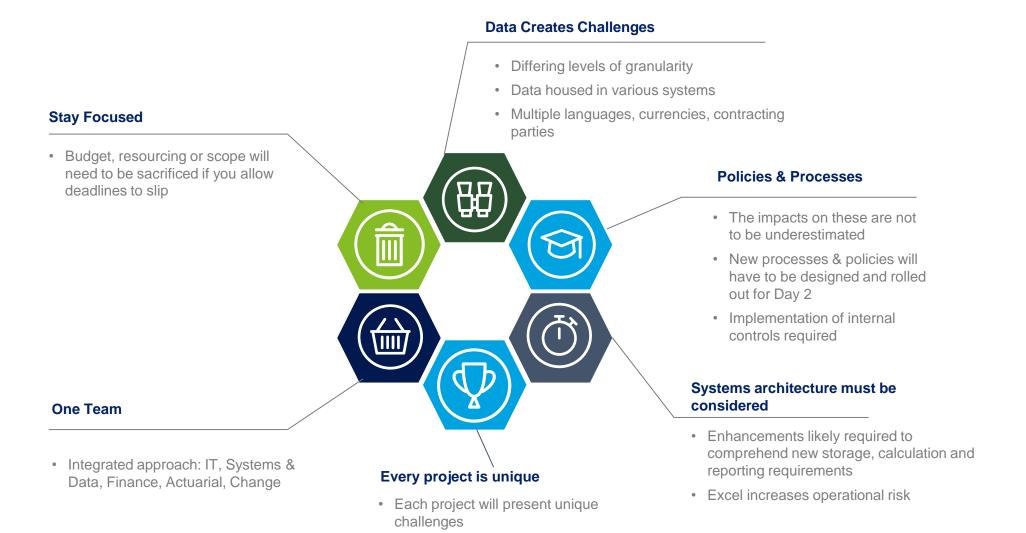


#### Critical Success Factors Practical execution



#### Key Takeaways

Learnings from other projects, that will help the set up, planning and approach and will help to avoid common pitfalls.



• Do what's best for your business

## Actuarial Modelling Centre of Excellence

Marc Fakkel

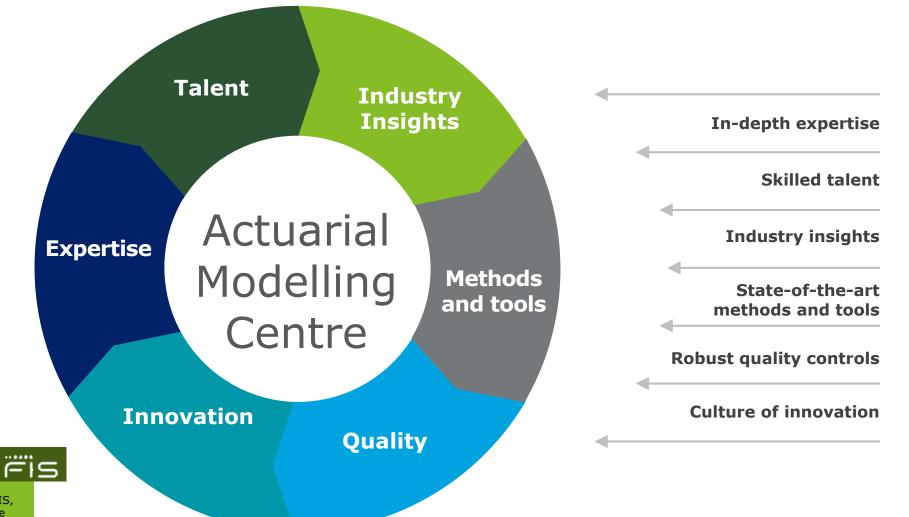
#### Introducing the Actuarial Modelling Centre AMC Ireland

The Deloitte Actuarial Modelling Centre (AMC), part of the Actuarial, Reward and Analytics (ARA) practice, is our centre of excellence for actuarial modelling. The AMC formalises the Deloitte approach to actuarial modelling where we are recognised as a market leader.

The AMC uses our standard management and project frameworks to deliver modelling engagements. Our expertise in this area is underpinned by our market leading approaches, frameworks, tools and training to support the delivery of actuarial modelling to our clients.

#### Global Alliance with FIS

Deloitte have formed a global strategic alliance with FIS, the developers of Prophet, to help insurers through the operational challenges of implementing IFRS 17.



# Thank You Any Questions?

#### Appendix Prophet IFRS 17 Library

- It is a new Prophet library which performs group calculation
- It is model point driven where each model point represents a cohort of policies
- It is reading results from products in other Prophet libraries or external data source through tables
- The other Prophet libraries are also enhanced for the cashflow discounting and aggregation required for IFRS

