

IFRS 17 And Technology Solutions

Presented by Angie Ng
Head of Technology & Software
Insurance Consulting And Technology
Willis Towers Watson, Singapore

17 November 2017

Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



Introduction

IFRS timeline

Overview of IFRS 17

IFRS 17 reporting – data management, calculations, automation and process efficiency

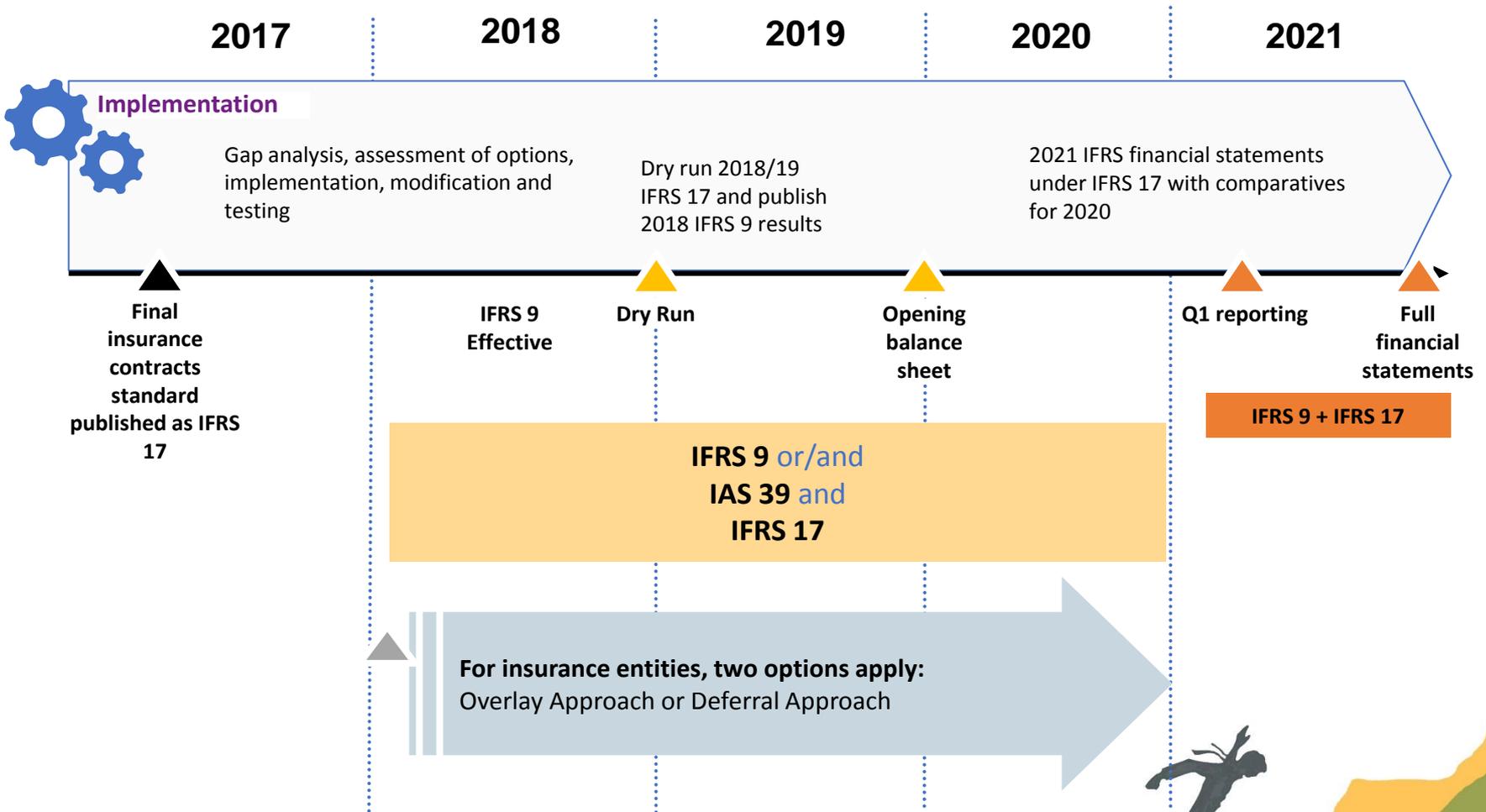
Technology solutions

Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



Publication of IFRS 17 is a starting gun not a finishing line



Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines

Overview of IFRS 17

Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



IFRS17 preparation progress in the region

- Korea
 - To implement IFRS in Jan 2021
 - Ahead of other countries in the region due to encouragement of their Regulator
 - Doing financial impact assessment
 - Selected IFRS17 engine or doing software assessment now
- Singapore/Malaysia
 - To implement IFRS in Jan 2021
 - Most have set up IFRS task force, some have set up Actuarial/Finance Transformation Teams
 - Looking into Gap Analysis
 - Working on test model to assess feasibility of their existing system
 - Working/exploring automation of financial reporting processes
- Thailand
 - To implement IFRS in Jan 2022
 - Have/in the progress of setting up IFRS task force
 - Considering Gap Analysis
 - Doing IFRS17 software assessment, exploring automation of financial reporting processes

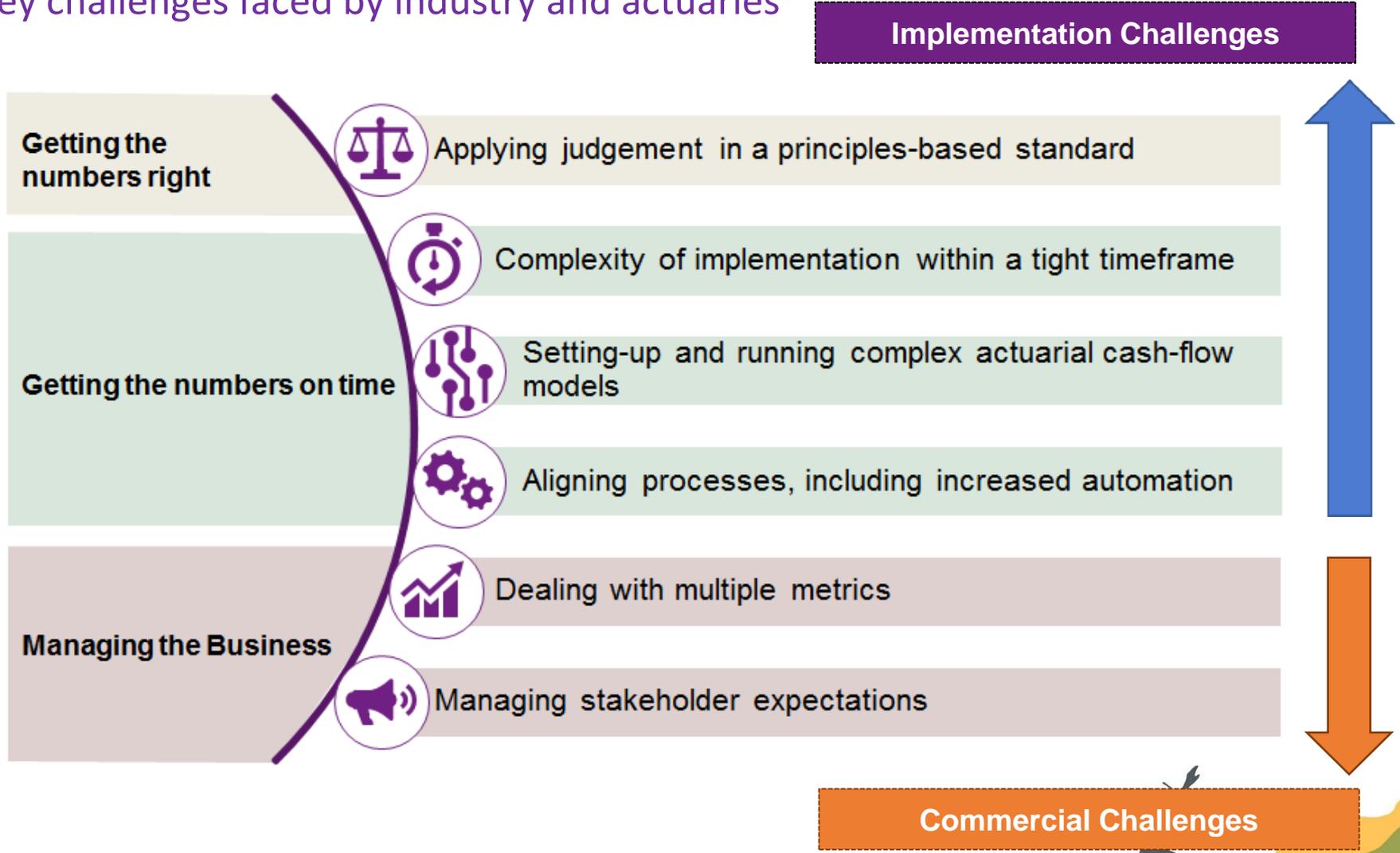
Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



More than a compliance exercise

Key challenges faced by industry and actuaries



Embracing Challenges for Growth and Opportunities

Why to invest in technology solutions and IFRS preparation now?



Understand the financial impact

What are the potential differences prior vs after IFRS implementation, in terms of P&L and Balance Sheet?



Change in product development direction?

Single premium saving products lose their attractiveness – capital intensive, unable to recognise all profits at inception post IFRS17 implementation

Focus on less capital intensive products, eg. ILP



Profitability and EV management

Understand the profit emerging patterns for different types of products. How will EV change after IFRS17?



Capital efficiency management

What is the appropriate level of available capital? New business strain, EV vs required capital are some good indicators



Reporting efficiency enhancement (for near future consideration)

Look into data management and reporting processes

Identify the gap, refine the processes for timely and accurate financial reporting

- **IFRS Gap Analysis - the exercise to discover the gaps and identify actions**
- **Technology Solutions - the tools to enhance reporting efficiency and help decision making**

Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



IFRS 17 Reporting

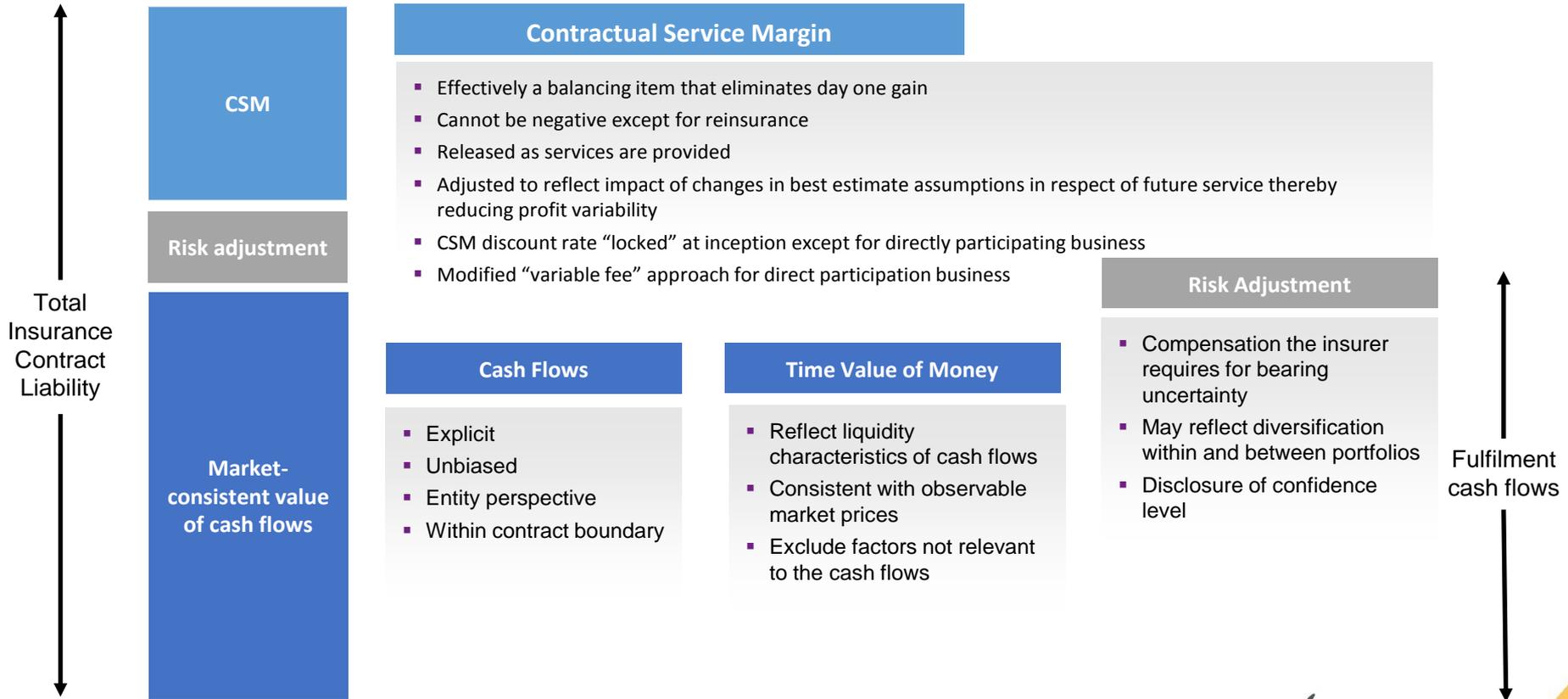
- Calculations
- Data management
- Automation and process efficiency

Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



IFRS17 – key calculation components



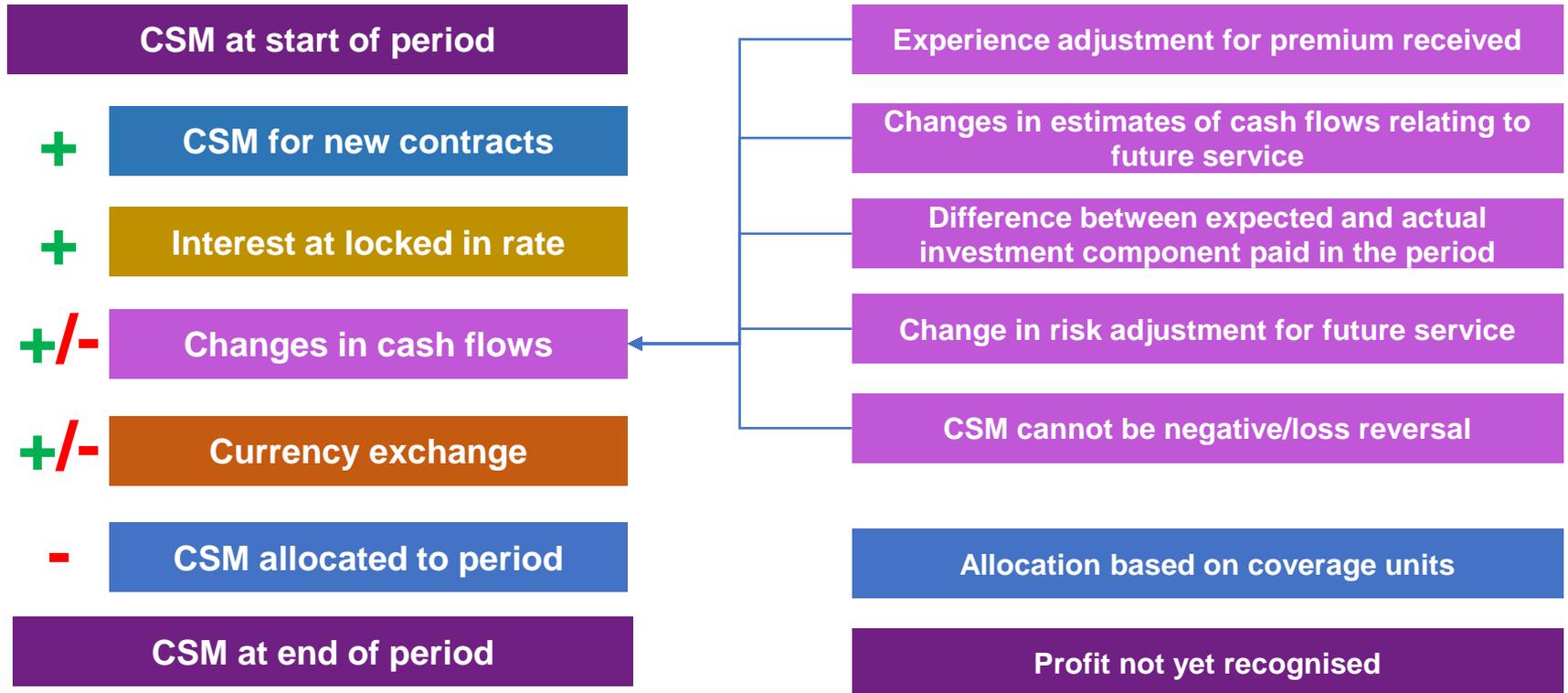
Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



Contractual service margin roll forward

CSM Progression – General Measurement Model



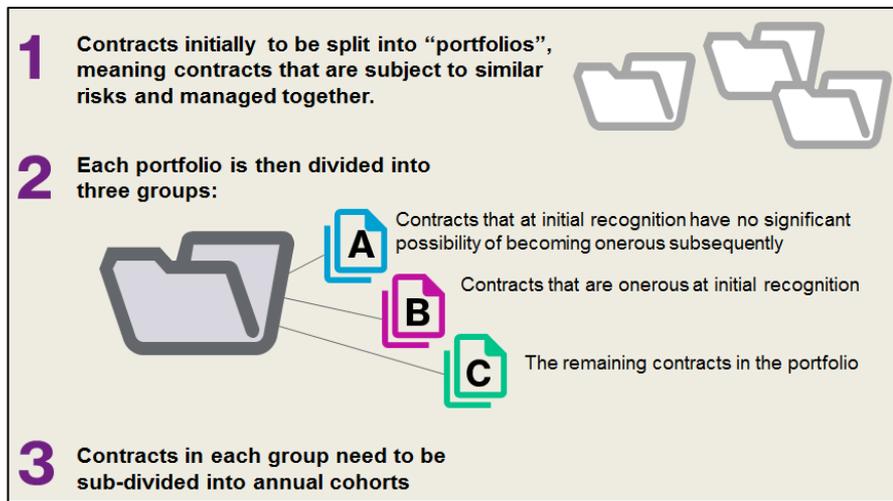
Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines

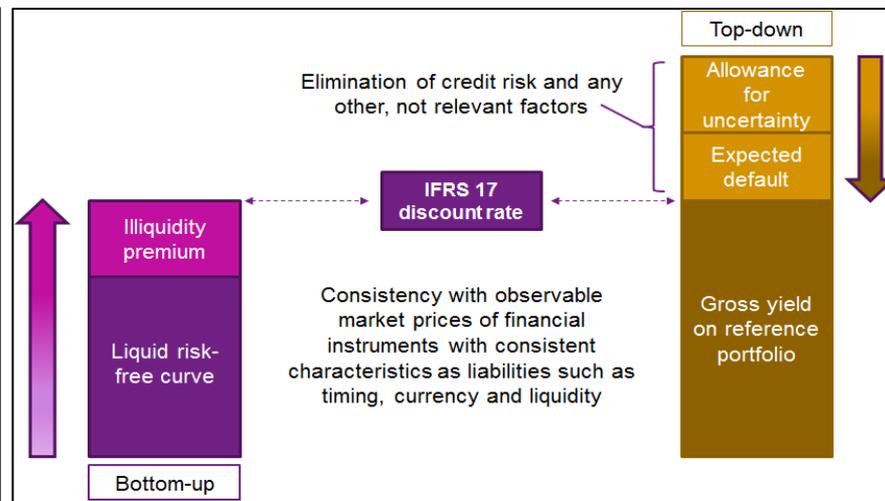


Some other areas that will require actuarial judgement

Grouping of contracts



Discount Rates



Risk adjustment principle



Purpose of the Risk Adjustment

To reflect the compensation that the entity requires for bearing the uncertainty about the amount and timing of the cash flows that arises from non-financial risk

- Required to disclose equivalent confidence level
- Risk adjustment set from the perspective of the insurer
- What risk measure to use VaR or TVaR and how to calculate the related cost? Which percentile?
- How to account for and allocate diversification benefits?

Embracing Challenges for Growth and Opportunities



Statement of Comprehensive Income

So what happened to written premiums?

Statement of Comprehensive Income	
	2021
Insurance contract revenue	X
Insurance service expenses	(X)
Insurance service result	X
Investment income	X
Insurance finance expense	X
Net financial result	X
Profit/Loss	X
Discount rate changes on insurance liability (optional)	X
Total comprehensive income	X

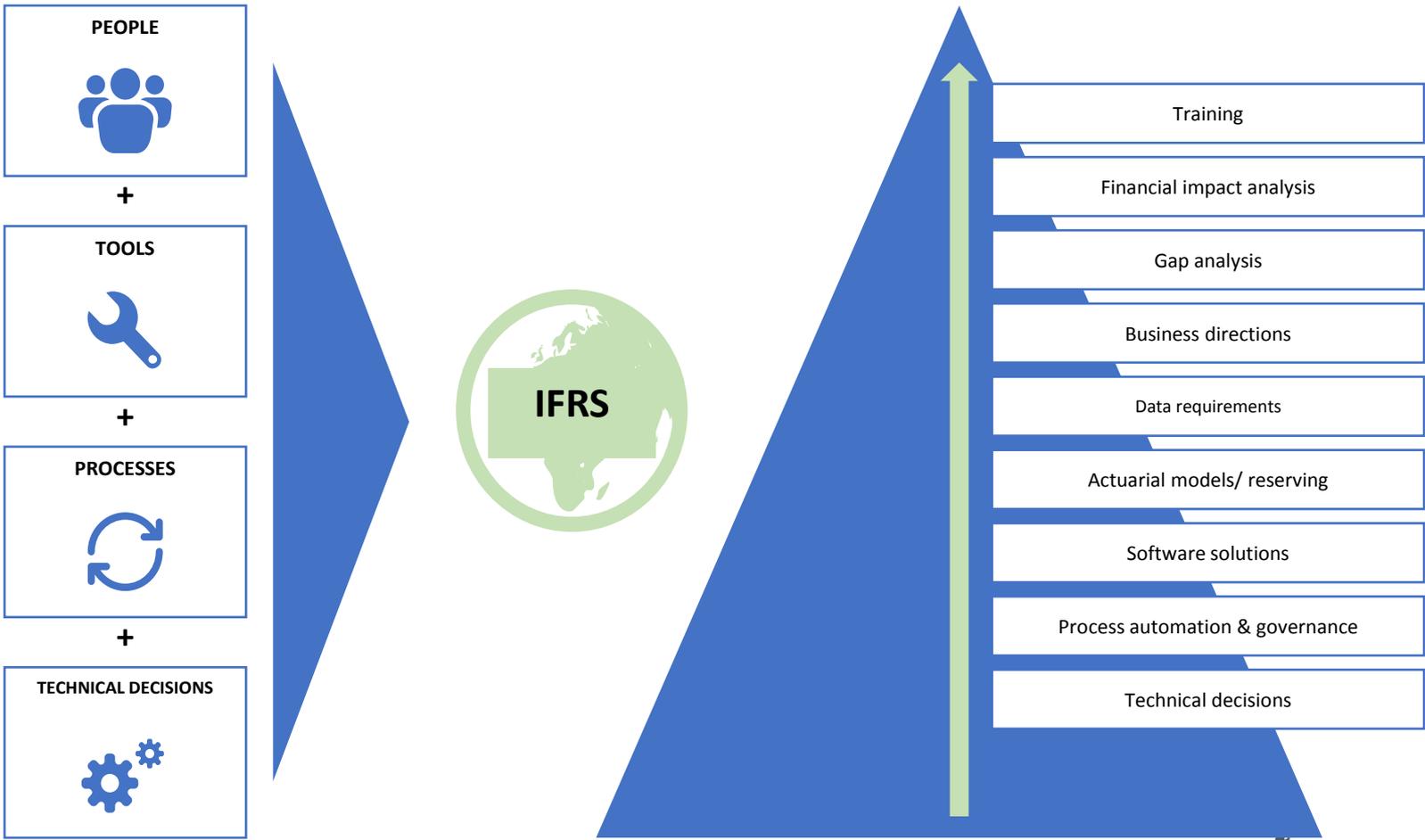
- Insurance contract revenue and service expenses exclude any deposit components
- Revenue and expense are recognised as earned or incurred
- Insurance contract revenue represents the transfer of promised services and comprises:
 - Expected claims
 - Risk adjustment
 - CSM
 - Acquisition cash flows
- Insurance finance expense is excluded from insurance service (underwriting) result
- Accounting policy choice to present insurance finance expense either
 - fully in P&L or
 - in P&L and OCI

Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



Implementing IFRS 17 requires a holistic approach ...



Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



IFRS 17 will require new, slicker calculation engine and models

More granularity and complexity in B/S and P&L for Insurers



Model Capabilities / IFRS Requirements

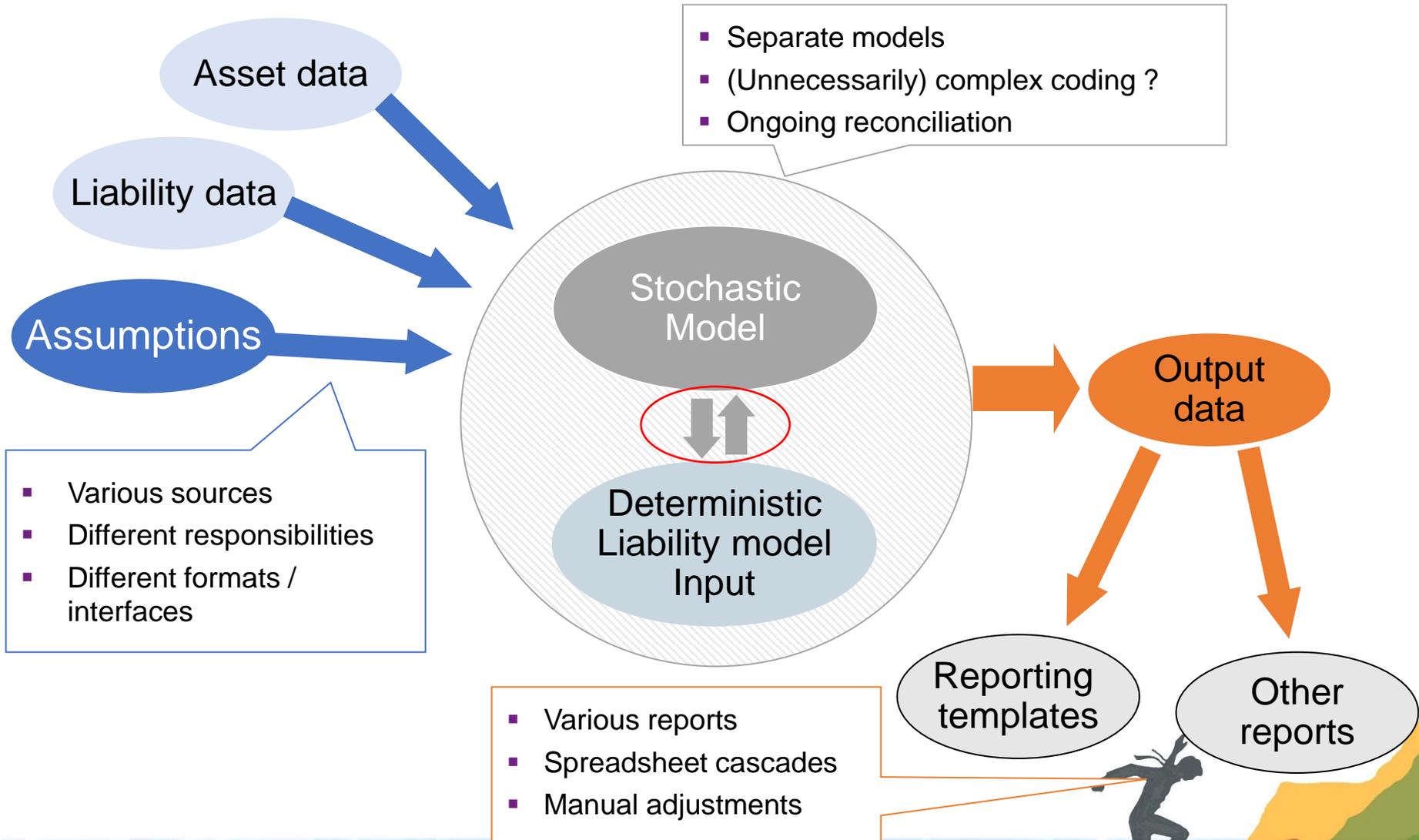


Calculation engines and reporting systems need more flexibility but also ensure robust, reliable, repeatable and timely delivery of required figures

Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines

Actuarial model processes need to be industrialized



Embracing Challenges for Growth and Opportunities

Data Management - what does data process best practice look like?



Additional features

Be transparent and easy to use

Remove the black box typically associated with data processing.

Be flexible and adaptable to business requirements

With requirements constantly evolving, having flexibility can help simplify downstream reporting processes and adapt more quickly.

Provide management information reporting and a strong audit trail

Facilitate management understanding of data quality through clean and intuitive reports. Automated audit reporting gives a low maintenance process and helps ensure requirements are met.

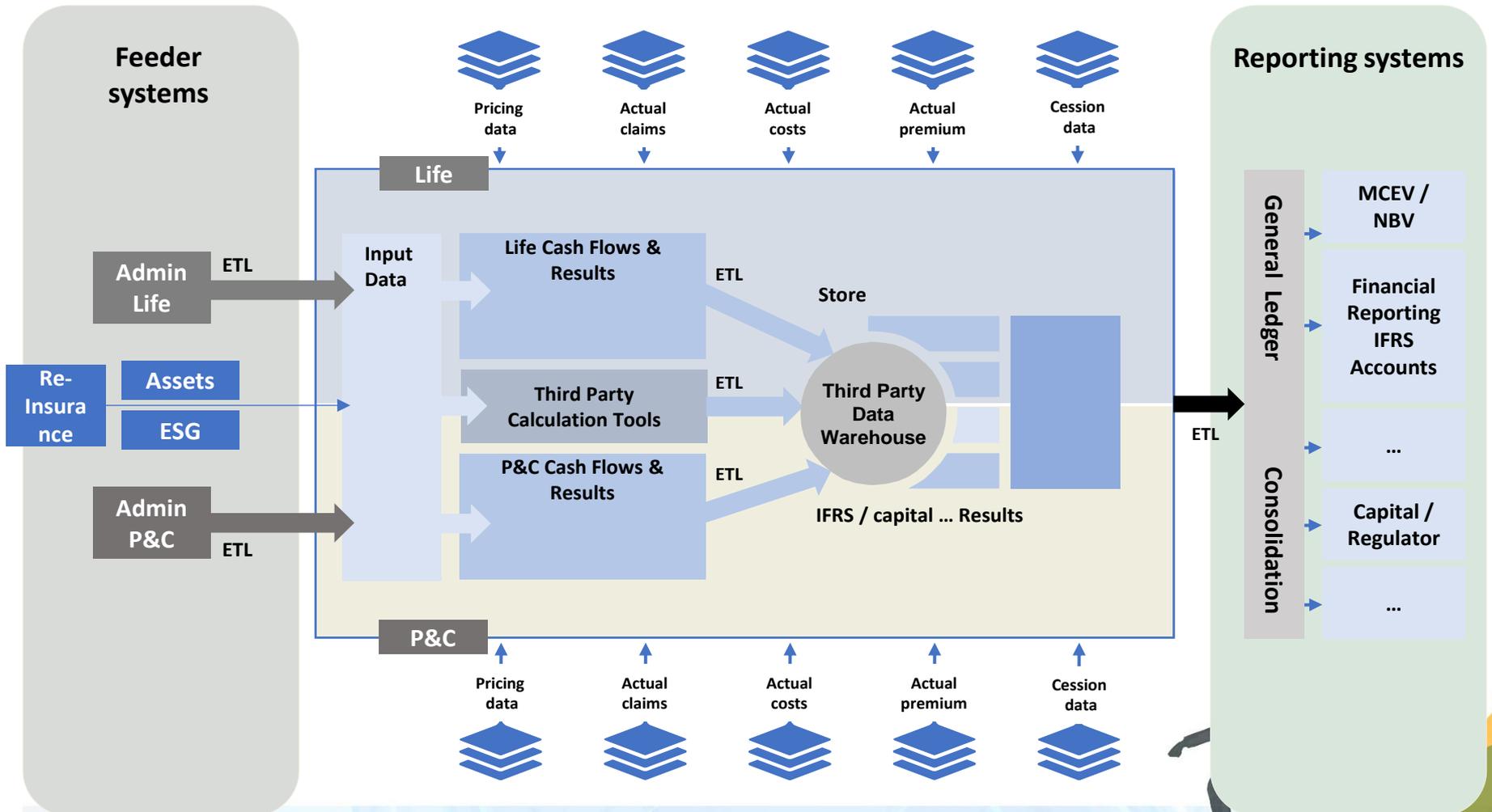
Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



Implement IFRS 17 content at the right place

Design and orchestrate seamless “End-to-End” process through workflow engine

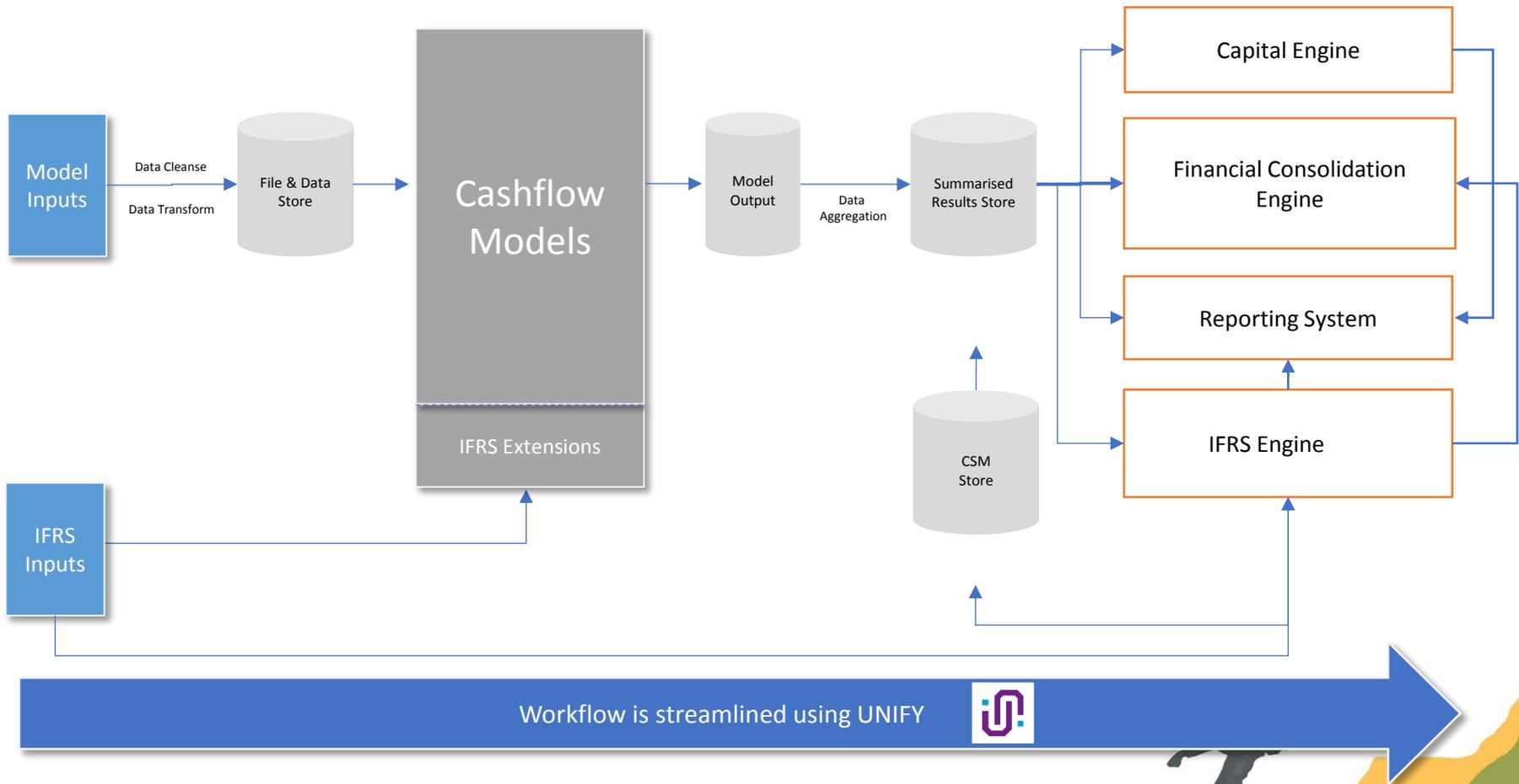


Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines

IFRS reporting process

Using workflow software to streamline process in a controlled environment



Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines

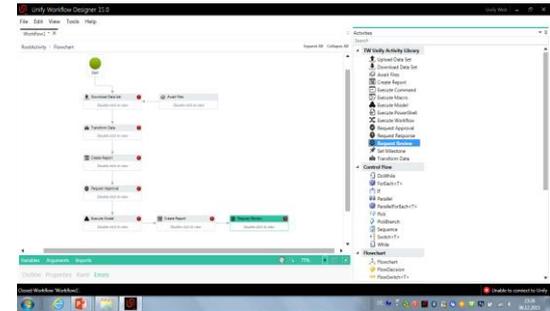
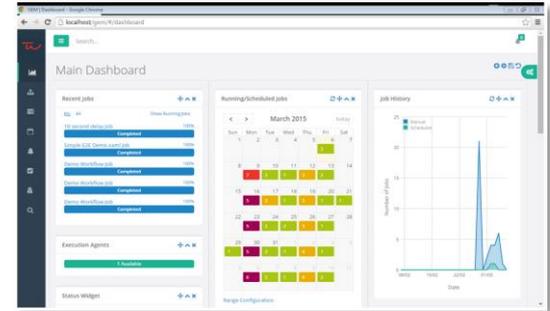
Integration, automation and governance

Workflow framework wrapping around your actuarial/financial tools



A transformational solution that enables your company to rise to a higher standard of performance in actuarial process management

Security	Governance	Auditability	Integration
Enterprise wide access utilising user based access control, with information stored in enterprise repositories, providing for enterprise level	Centralised storage and version management of inputs, outputs, calculation engines and process workflows	Logging of all activities and tracking of changes for mandatory levels of auditability	Integration across Life and GI software tools, in-house data-warehousing solutions and 3 rd party applications e.g. ESGs, Excel etc.
Automated workflow	Monitoring	Traceability	Scalability
Design and scheduling of sophisticated processes and work-flows for fully automated end-to-end processing	Reporting of work flow progress and individual work item notification for necessary management visibility, including progress against key milestones	Formal authorisation of models, data and other information for traceability (lineage of results) and accountability	Ability to integrate with the full range of WTW on-demand grid solutions to deliver scalable resources to the most sophisticated problems



Date	User	Action	Type	Name	Version Number	Version Name	Path	Details
2015-03-23 09:55	INTERNAL\jordan750	Updated	Table Set	Table	1		Root\Tables\Table	
2015-03-23 10:29	INTERNAL\jordan750	Updated	Table	Table Storage	1		Root\Tables\Internal\Table Storage	
2015-03-23 10:30	INTERNAL\jordan750	Updated	Table	Table	2		Root\Tables\Internal\Table Storage\Table	
2015-03-23 10:30	INTERNAL\jordan750	Updated	Table	Table Storage	2		Root\Tables\Internal\Table Storage	
2015-03-23 10:30	INTERNAL\jordan750	Updated	Table	Table	3		Root\Tables\Internal\Table Storage\Table	
2015-03-23 10:30	INTERNAL\jordan750	Updated	Table	Table Storage	3		Root\Tables\Internal\Table Storage	

Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



An example of robust technology solutions road map

Embracing Challenges for Growth and Opportunities

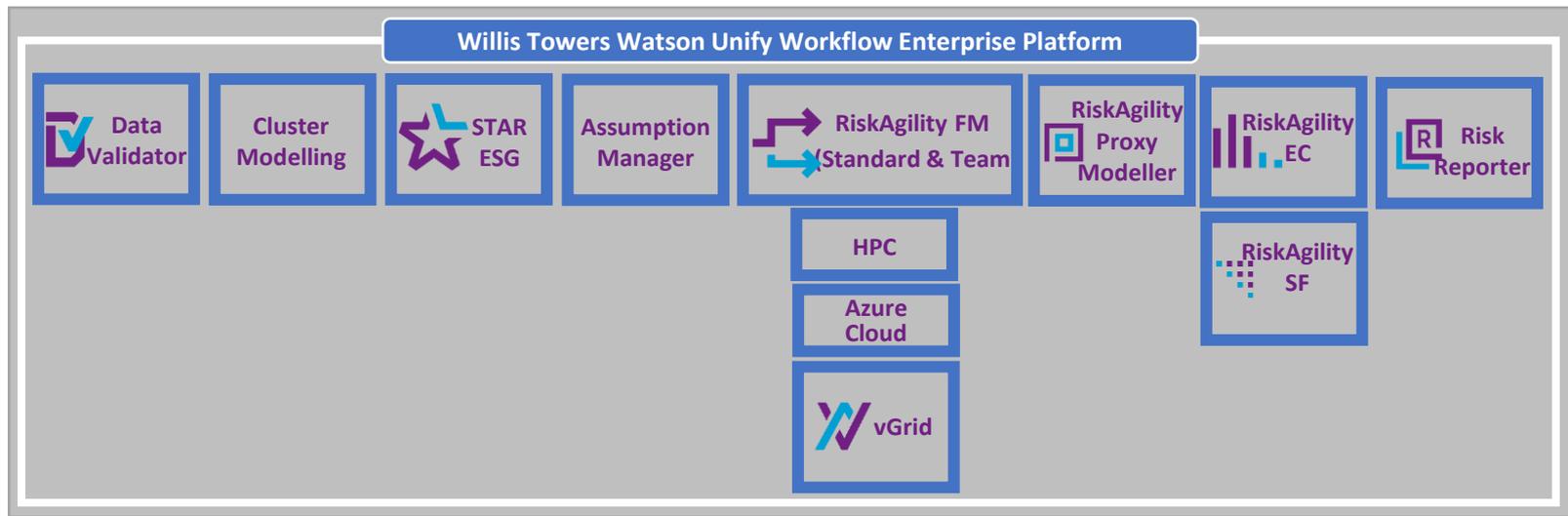
58th Annual Convention of the Actuarial Society of the Philippines



An example of robust technology solutions road map



Best of breed tools integrated into fully automated end-to-end process



Our solutions can also work in conjunction with other vendor products

Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



Questions



Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines



Embracing Challenges for Growth and Opportunities

58th Annual Convention of the Actuarial Society of the Philippines

