

Hong Kong Insurance Risk-Based Capital Webinar

Discussion on Risk-Based Capital key implementation challenges

5 July 2022



Agenda

Introduction (5 min)

1 HKRBC as a cross-functional project (25 min)

Q&A

2 Key assumptions / methodology for HKRBC – Contract boundary (20 min)

Q&A

3 HKRBC Gap Assessment – Deloitte Readiness Assessment Tool (25 min)

Q&A

4 RBC Regulatory Overview (15 min)

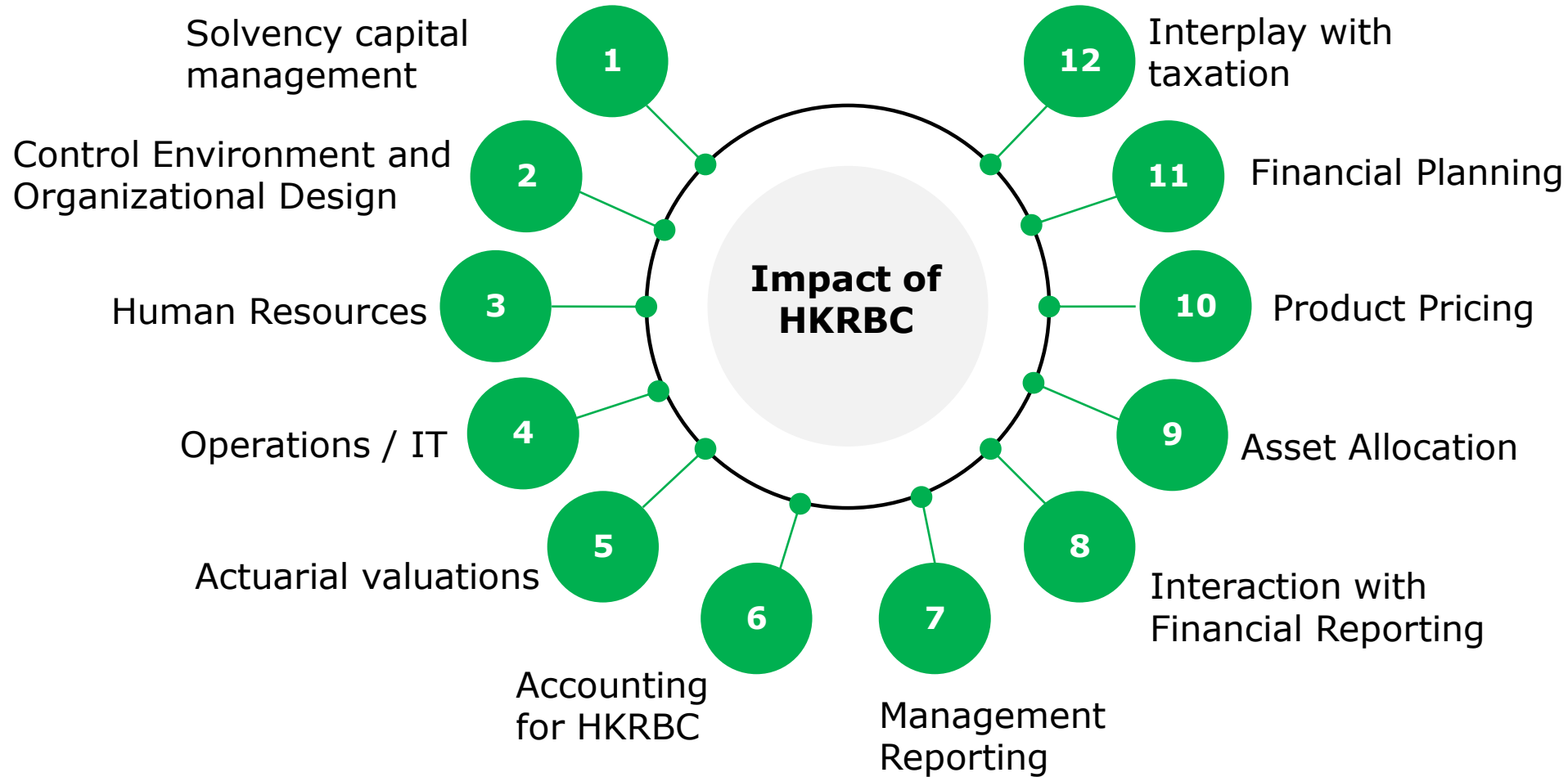
Final Q&A and closing

1. HKRBC as a cross-functional project

Impact of HKRBC

How will HKRBC impact insurers in Hong Kong?

HKRBC will bring pervasive change to the operating model of insurers. Insurers need to manage the change with regulators, policyholders and internal stakeholders.



Impact of HKRBC

How will HKRBC impact insurers in Hong Kong?

HKRBC will have a pervasive impact on the operating model to various internal stakeholders.

1. Solvency Capital Management

- Hong Kong is in the process of developing a new RBC regime, at the forefront of a region wide push to upgrade/ implement RBC regulations
- HKIA specifies PCR which follows a modular approach and calculations applying risk-factor based approach or stress-test based approach
- There is no option but for all HK insurers to comply with the new HKRBC regulatory requirements

2. Control Environment / Organisational Design

- HKRBC requirements need to be designed, implemented, tested, brought into production and maintained / operated
- The interaction between finance, risk and actuarial will increase (cross-skills opportunities)

3. Human Resources

- Several department would need an upgraded set of capabilities to cope with the greater economic sensitivity of an insurer's surplus
- Higher demand for skilled resources to implement HKRBC
- KPIs used for remuneration may need to be recalibrated

4. Operations / IT

- Resources required for participation in the IT solution design, test and rollout
- Process changes required after the introduction of automation and data processing tools
- Supporting model needs to be developed for the newly introduced system and tools
- Implementation needed to be well planned to minimize the impact to BAU

Impact of HKRBC

How will HKRBC impact insurers in Hong Kong?

HKRBC will have a pervasive impact on the operating model to various internal stakeholders.

5. Actuarial Valuations

- Current net premium valuation method with implicit margin for long term business will no longer be applicable as HKRBC requires a more robust approach accounting of CE, MOCE and TVOM, reflecting all guaranteed and non-guaranteed future cash flows
- Existing models need to be adapted to the new regulations - new data flows, calculations, projections to be implemented

6. Accounting for HKRBC

- Accounting methodologies, accounting treatments on recognition and measurement, presentation and disclosures, etc. will need to be separately accounted for under HKRBC
- Most of the CoA and Financial Statement positions may be impacted
- Improved reporting productivity and efficiency of finance closing process will be necessary

7. Management Reporting

- Insurers will need to put in place a robust system of risk governance, develop and enhance risk management techniques in monitoring and managing risk exposure according to Pillar 2 GL 21
- ORSA report is required for risk profiles, capital requirements and solvency assessments, and must be independently reviewed
- Internal KPIs will need to be adapted to new external measurements
- Fast close for internal MI will be under even greater pressure to deliver the new figures efficiently

8. Interaction with Financial Reporting

- HKRBC and Financial Reporting (HKFRS) need to be integrated to avoid finance BAU costs to soar out of control
- Although not required a strong reconciliation across reporting from risk and finance will pay off

Impact of HKRBC

How will HKRBC impact insurers in Hong Kong?

HKRBC will have a pervasive impact on the operating model to various internal stakeholders.

9. Asset Allocation

- ALM will be under a brighter spotlight than before
- Asset allocation will need to be revisited given higher risk charges on riskier assets
- There will be more emphasis on risk-based metrics for asset returns. More dynamic hedging programs may become increasingly relevant, targeting an upside while managing a certain level of volatility
- More active management of dependencies and economic mismatches

10. Product Pricing

- Capital assessment and stress testing give rise to changes in product valuation that will impact actuarial pricing methods

11. Financial Planning

- ORSA requires forward-looking capital resources with a time horizon consistent with business planning, and remain viable under both normal and stressed conditions
- Planning / forecast processes have to be adjusted to new metrics arising from HKRBC
- Regulatory capital/target capital must be assessed given the risk appetite, capital plans, risk management actions
- It might be useful to perform simulations on the impact of HKRBC on KPIs at an early stage

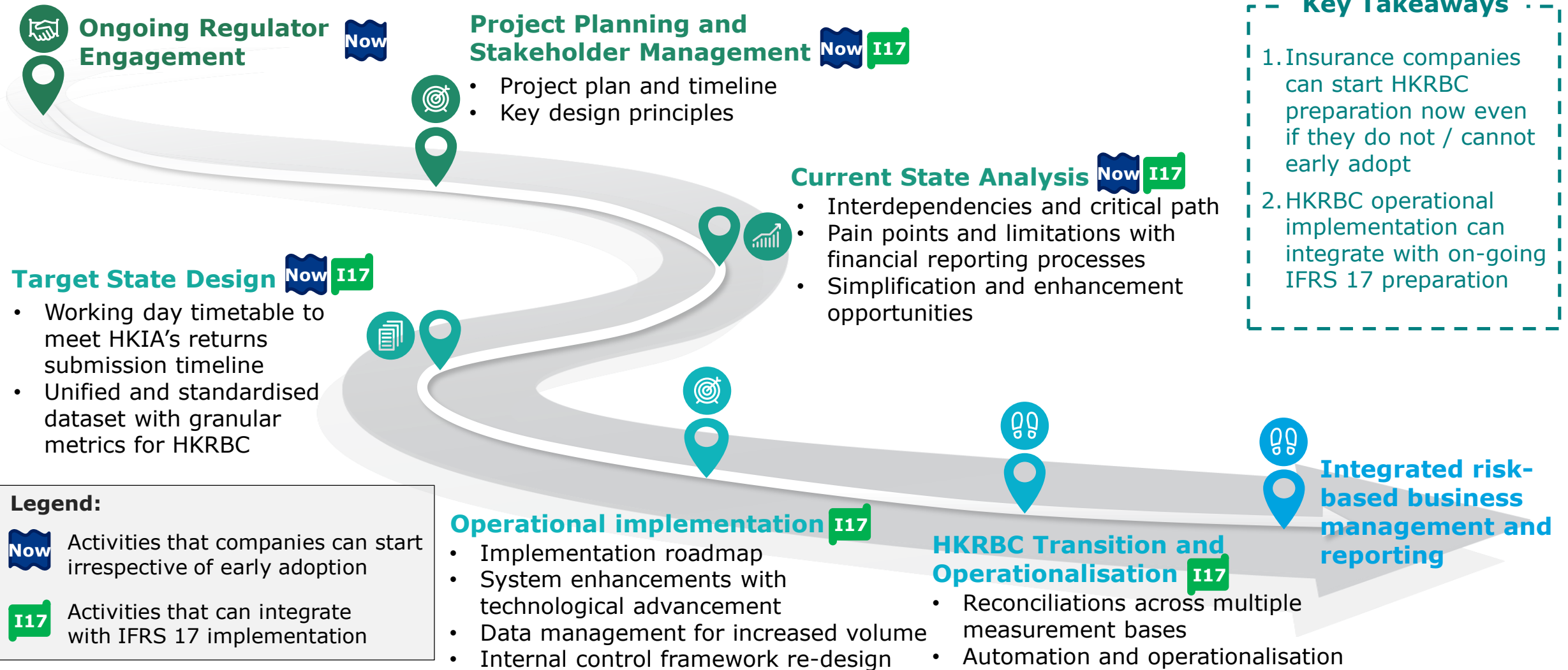
12. Interplay with taxation

- Accounting values for DTA/DTL should be adjusted to reflect valuation differences between the HKFRS and HKRBC
- The 5% net premium taxation approach for life insurers will no longer be applicable from 2024, at the earliest

The HKRBC Journey

What insurance companies can do now – irrespective of early adoption

Start early to plan for the HKRBC regime would create implementation cost savings opportunities



Legend:



Activities that companies can start irrespective of early adoption



Activities that can integrate with IFRS 17 implementation

Finance Components

HKRBC is not a finance-light project

HKRBC is not only about actuarial aspects of quantitative calculations, but also involves many areas that are finance-focused



1

Process and controls

- Design future target state for HKRBC operating model, system architecture and process
- Integration and alignment with HKFRS and internal management processes

2

Assets look-through

- HKRBC requires the reporting of look-through of asset data while HKFRS is not necessary
- Implement an approach to efficiently consolidate and automate asset data flows to meet Pillar 3 requirements

3

Reconciliation between HKFRS 17 and HKRBC

- Similarities and differences between HKFRS 17 and HKRBC
- The reconciliation between the two sets of numbers is a joint-exercise between Finance and Actuarial

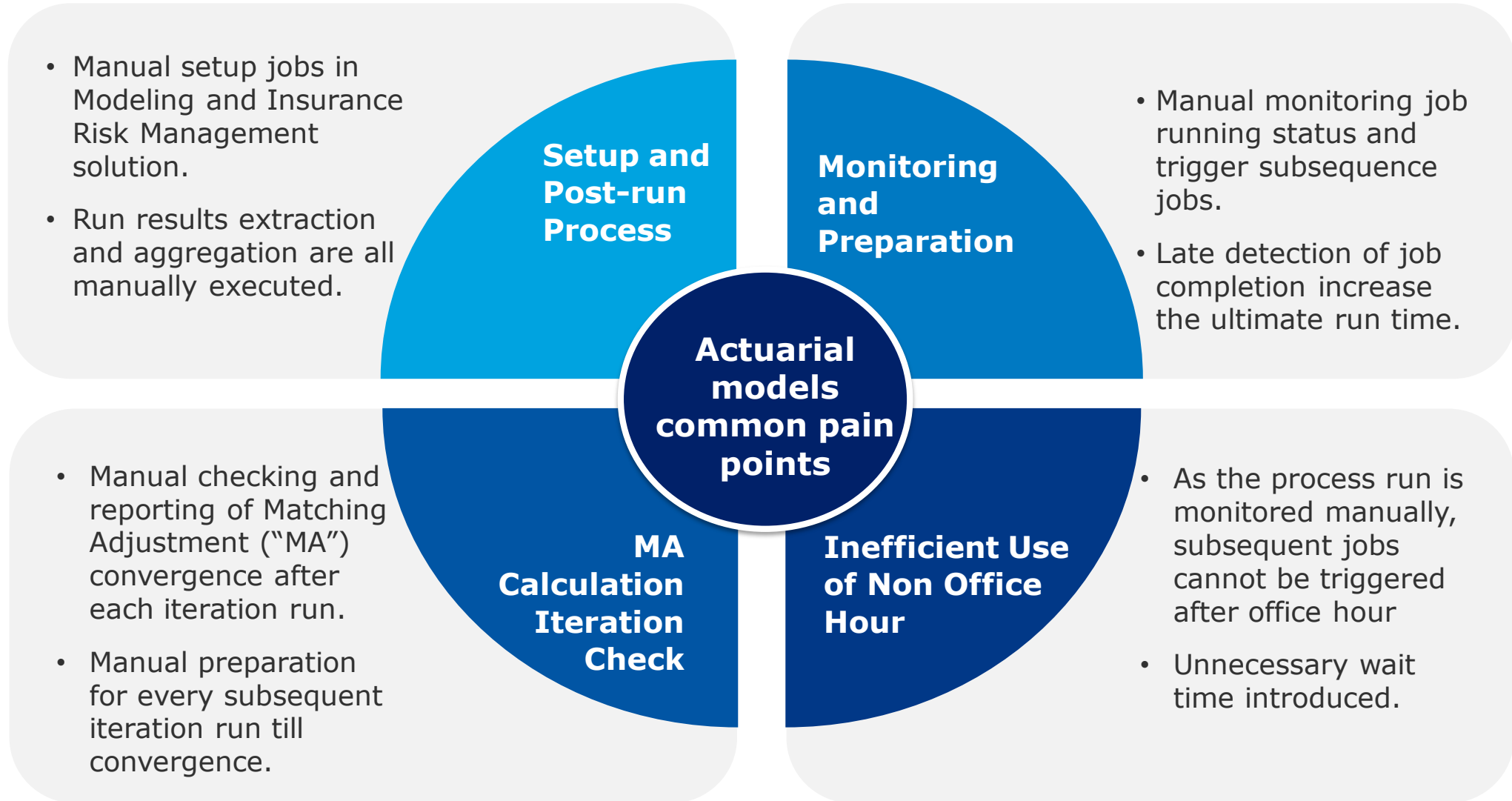
4

HKIA reporting requirements

- Presentation and disclosures under Pillar 3 of HKRBC would be finance-focused
- Finance resources would be essential to execute the reporting exercise to comply with IA requirements

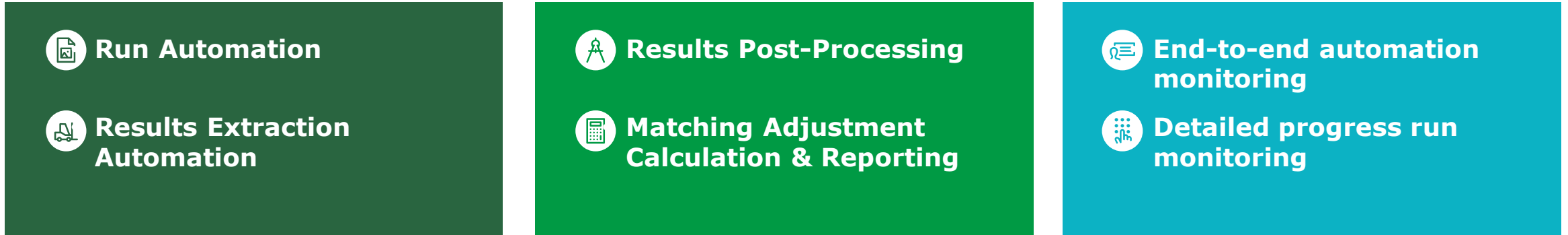
Common pain points

Actuarial models generated common pain points during HKRBC implementation and valuable lessons can bring substantial benefits



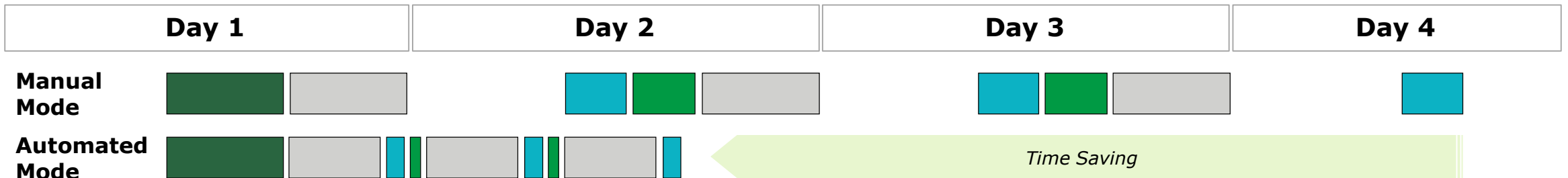
Automation of HKRBC processes

Deloitte has seen automation of HKRBC in three major areas that collectively address several of the common pain points we have noted in our work to date



The automated mode sees a significant reduction in reporting timeline; the additional reduction in manual effort means the entire production team can be deployed to engage in more value-adding activities, enhancing production efficiency and team morale.

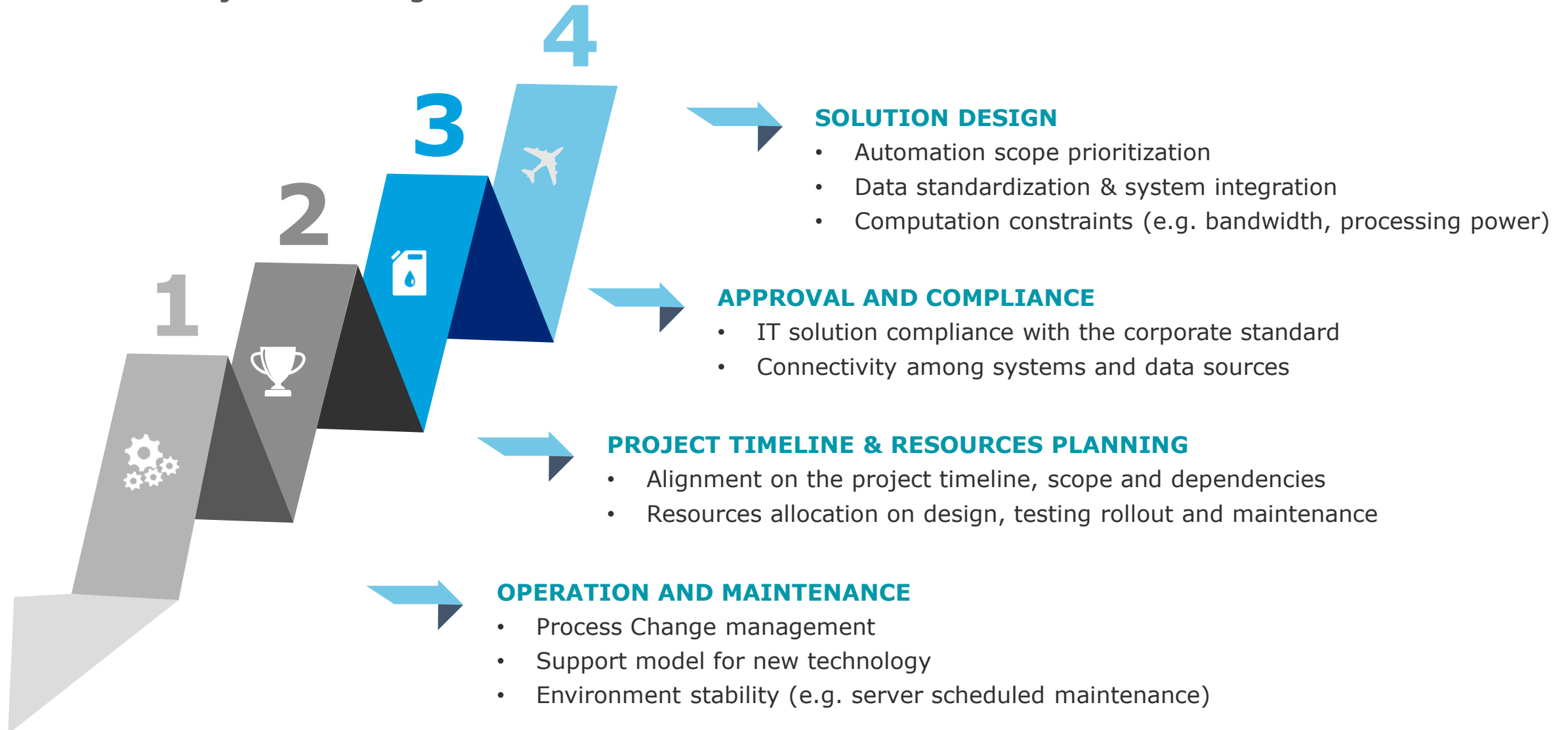
Production Timeline



- Legend:**
- Initial Run Preparation
 - Model Run
 - Result Extraction & MA Calculation
 - Subsequent Iteration Preparation

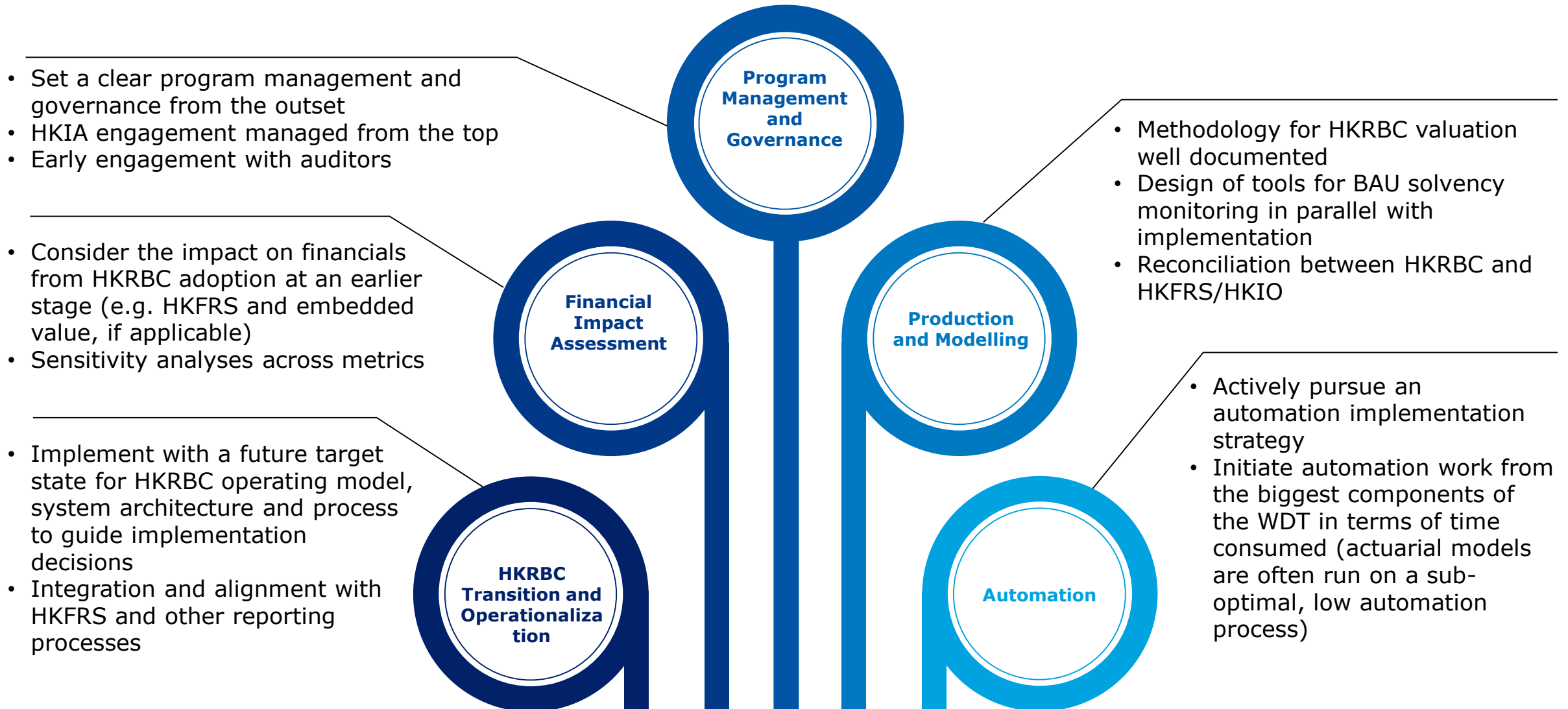
Automation of HKRBC processes (cont.)

Common Project Challenges



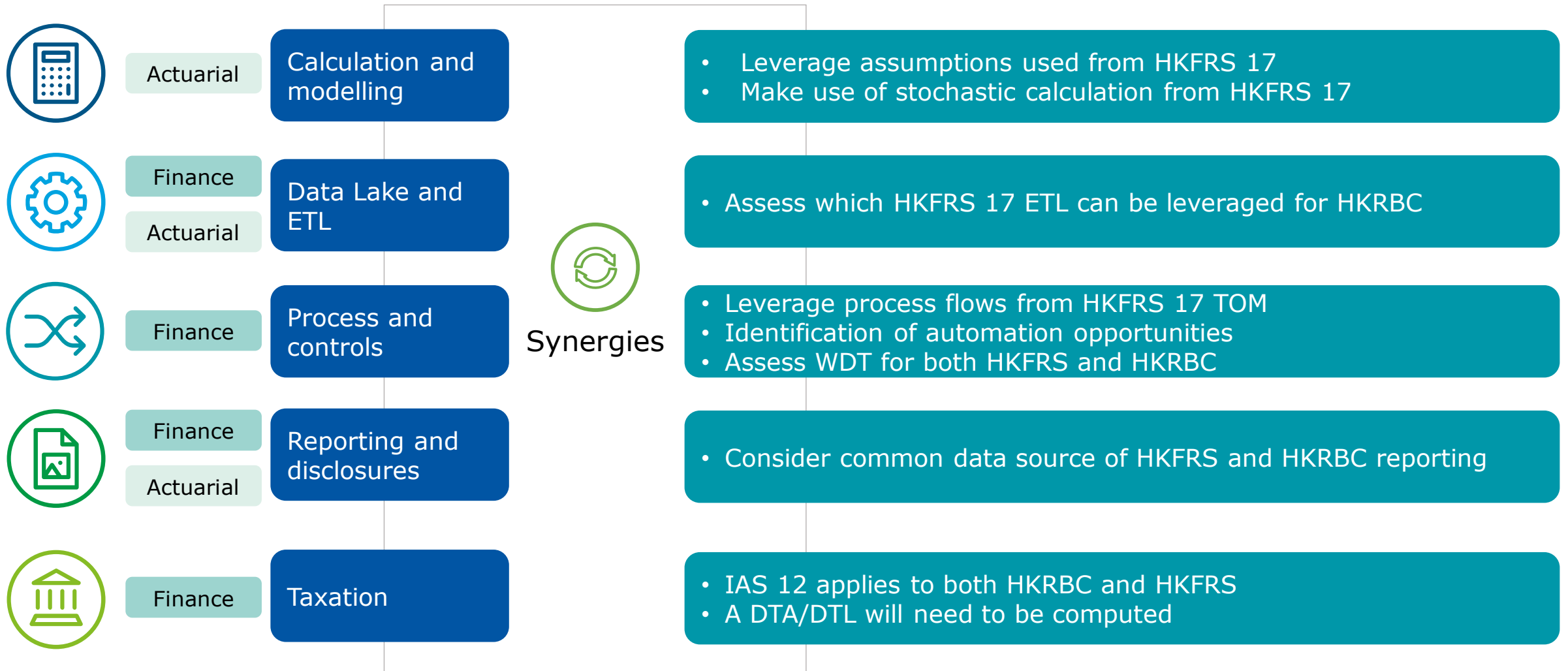
HKRBC – An Opportunity to Integrate Risk and Finance

Our experience from HKRBC projects suggests a number of areas where best practice has already emerged and it can help the next insurance company implement with low risks



HKRBC – An Opportunity to Integrate Risk and Finance (cont.)

Both HKRBC and HKFRS 17 require changes in data, system and process from the existing solvency and HKFRS valuation and reporting processes



2. Key assumptions / methodology for HKRBC – Contract boundary

Contract boundary overview

Liability Valuation Overview

Technical Provisions		IO Cap. 41	HKFRS17	HKRBC
Current Estimate	Valuation Basis	Net Premium Valuation (NPV)	Gross Premium Valuation (GPV)	GPV
	Cash Flow	Prudent	Best Estimate (BE)	BE
	Discounting	Valuation Interest Rate	Mkt-ref / risk-adj rates	Mkt-ref / risk-adj rates
	Contract Boundary	No	Yes	Yes
	Policy-level cash surrender floor & reserves zeroisation	Yes	No	No
	Time Value of Options & Guarantee (TVOG)	Implicit	Yes	Yes
Margin over Current Estimates (MOCE)		No	Yes	Yes

Contract boundary definition

*Definition of **Contract Boundary** refers to **HKFRS17 Insurance Contract***

	HKRBC	HKFRS17	IO Cap. 41
Recognition / Derecognition of Liability	<p>Earliest of:</p> <ol style="list-style-type: none"> 1. Date first premium becomes due 2. Beginning of coverage period 3. Date participant becomes party to contract 	<p>Earliest of:</p> <ol style="list-style-type: none"> 1. Date first payment from policyholder in group becomes due 2. Beginning of coverage period 3. For group of onerous contracts, when group becomes onerous 	No explicit rules around contract boundaries.
Contract Boundary	In line with IFRS17, EXCEPT contracts unbundled before application of contract boundary.	<ul style="list-style-type: none"> • Cashflows within boundary if arising from substantive rights and obligations which entity can compel policyholder to pay premiums; OR • Which entity has substantive obligation to provide policyholder with services. 	

Contract boundary examples (1/2)

The contract boundary directly affects the contract tenor thus the projection of liability cashflow before discounting to arrive at the GPV reserves.

Contract Boundary - Example Illustration

1

- Yearly renewable group life contract
- The insurer has right to re-price at renewal
- Premiums estimated based on period to next renewal



**Contract Tenor
1 year**

2

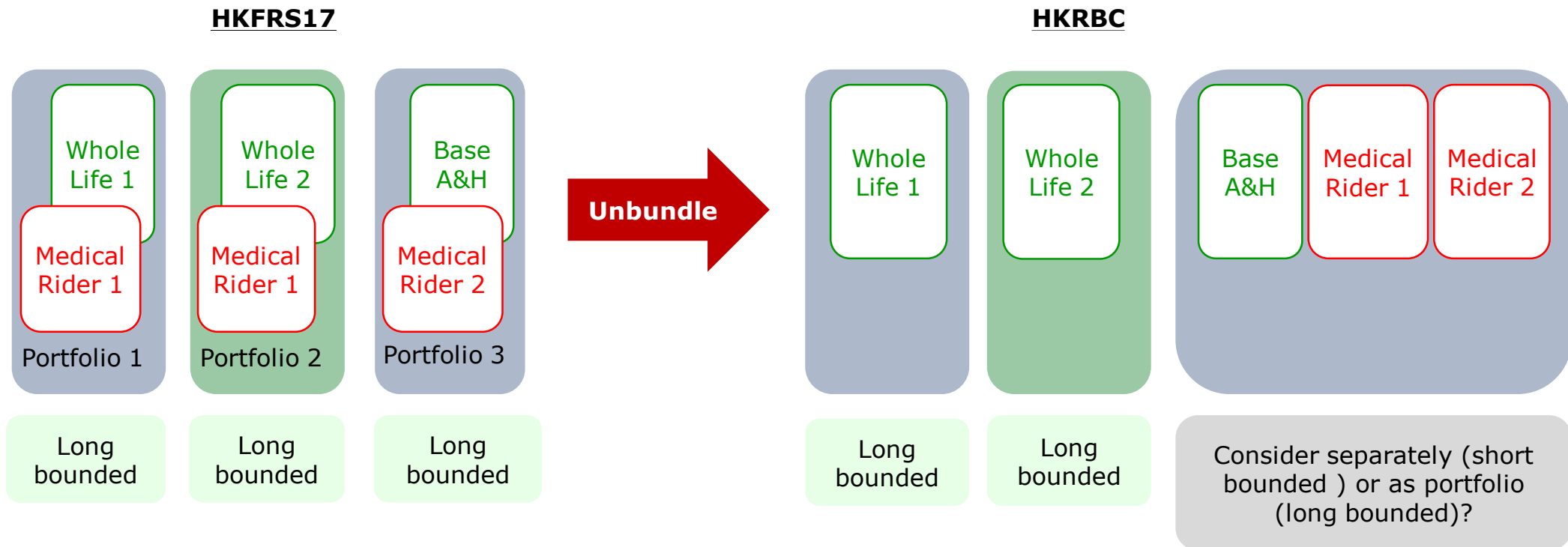
- Policyholder aged 50
- Guaranteed renewable 5 year term assurance until age 75
- Premiums reviewable at renewal
- Insurer can increase premium to a cap of 50%



**Contract Tenor
25 years**


Contract boundary examples (2/2)

Unbundled components should be grouped based on their risk characteristics, not the characteristics of the base contracts.



Contract boundary analysis and outcome

Approach to Contract boundary analysis



1 Review product features of products and HKFRS 17 accounting policies

2 Review pricing practice and assess whether it meets the HKFRS 17 criteria

3 Document findings into technical papers and pricing documents including gaining agreement from auditor

What are we assessing?

HKFRS 17.34(b) requires consideration of whether an entity;

- can set a price or level of benefits that fully reflects the risk of portfolio (paragraph 34(b)(i)); and
- **pricing of premiums** for coverage up to date when risks are reassessed **does not take into account risks relating to periods after the reassessment date** (paragraph 34(b)(ii)).

Assessment covers when 34(b)(ii) is not true for medical products i.e. **whether pricing of premiums up to the reassessment date takes account of future risks.**

Review of product features

Illustrative examples - pricing takes account risks for periods after next reassessment date

- Contract is priced such that premiums charged in earlier periods when policyholder is younger subsidises premiums charged in later periods when policyholder is older.
- Premiums are set in anticipation of future renewals beyond next reassessment date
- Premium paying period is not full duration of contract
- Premium discount and no claims bonus (“NCB”) apply and specified upfront

Medical product – sample features

Basic features

1. Medical reimbursement product with maximum annual benefit limit
2. Whole of life and annual renewal is guaranteed. Policy terminates on lapse / when policyholder dies.
3. Initial underwriting and health checks on entry (but not at renewal)
4. Insurer has right to reassess risks and fully reprice on a ‘product level’ only.

Additional features

5. NCB and premium discount based on duration-in-force.

Product features imply product

- meets the criteria in paragraph 34(b)(i) at the next renewal date; and
- ***can only be bounded at next renewal date if it meets the criteria in paragraph 34(b)(ii) at that date***

Technical analysis

Scenario	Technical analysis	Conclusion
NCB	<ul style="list-style-type: none"> • Key product features considered e.g. nature, materiality and size of NCB, NCB premium pattern in pricing • Technical interpretation and arguments: <ul style="list-style-type: none"> ➢ NCB are claims contingent amounts and hence relate to insurance risk. ➢ Premium on reassessment date takes into account future NCB • Repricing mechanism considers future deterioration of experience in NCB utilization rate (and hence future insurance risk) 	Not bounded at next renewal date
Premium discount	<ul style="list-style-type: none"> • Product feature – as reward for keeping policies in force, premium discounts apply based on duration-in-force. • Technical interpretation <ul style="list-style-type: none"> ➢ Premium discount flexes premium pattern downwards at later durations whilst keeping cost of risk unchanged hence same outcome as NCB scenario. ➢ Extent of downward shift in premium pattern based on assessment of insurance risk (considering expected in-force policies at older ages, morbidity, lapse and mortality risk). 	Not bounded at next renewal date
Cross subsidisation	<ul style="list-style-type: none"> • Analysis to compare annual morbidity cost and annual premium from younger to older ages (see next page). Analysis showed that expected premium payable: <ul style="list-style-type: none"> ➢ Materially exceeds expected cost of risk in younger age groups; and ➢ Materially falls short of expected cost of risk in older age groups. 	Not bounded at next renewal date

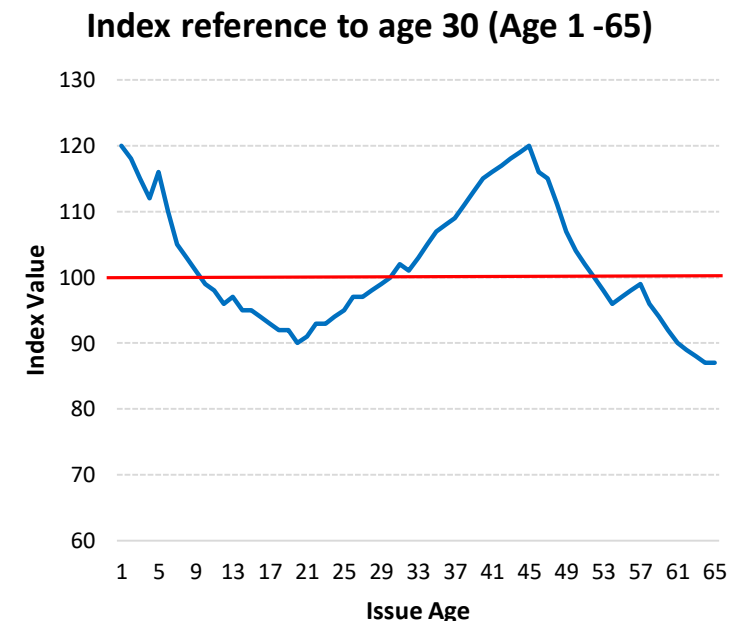
Cross subsidisation across policyholder age groups

Analysis of pricing and outcome

Annual morbidity cost and annual premium compared across all ages as below:

- Ratio = annual morbidity cost for each age group in portfolio / annual premium.
- Age group of 30 year old policyholders set as the reference point (median) to analyse presence of a cross-subsidy through calculation of a simple index for portfolio.
- Illustrated distribution of index ratio across all age groups by reference to selected reference age group of 30 years old.
- The index ratio being higher than 100 implies policyholder at particular age group can pay less premium to receive more expected value compared with policyholder at age 30.

Outcome: pricing results in some policyholders in younger age group paying more premium than expected level of claims thereby funding / subsidizing older age group where premium is priced at a lower level than expected claims for those age groups.



Product pricing and review evidence

Aim

Demonstrate that past, present and future philosophy on product pricing for medical product is conducive of contract boundary conclusion i.e. **contracts in the medical portfolio under HKRBC basis are not bounded at next repricing date.**

Evidence supporting technical analysis

1. Policies

Risk Management Policy / Pricing Policy guiding pricing team to consider what future risk is and how reflected in pricing and repricing

2. Pricing governance

Ensures management obligated to revisit philosophy implemented appropriately and maintains practice in future

3. Pricing document

Documents analysis i.e. repricing considers the risk and reflects it in premium

Summary

Outcomes for company

Independent analysis of product features and criteria

Robust technical analysis and interpretation of product pricing to arrive at contract boundary conclusion

Updated technical papers and pricing documents

Gaining agreement from auditor

3. HKRBC Gap Assessment – Deloitte Readiness Assessment Tool

Overview

Objectives & Outcomes & Who is the tool for?

Objectives

- Helps **perform a readiness assessment of a company's current state against being business-ready for the HKRBC solvency regime.**
- Gaps identified and maturity level provide indications on the **effort required to implement HKRBC.**
- Covers **Pillars 1 to 3 of HKRBC.**

Expected Outcomes

The output of the tool is a gap analysis report with:

- Options for closing gaps
- Roadmap for HKRBC implementation

Who is the tool for?

- Insurance companies
- Reinsurance companies

Approach - Independent Gap Analysis

Approach Overview

1. Understand the current state

- Desktop review of current reporting process, relevant documentation and models to ensure the current state is understood.

2. Workshop/meetings

- Augment our understanding on **Data, Assumptions, Methodology, Modelling, Controls, Results Consolidation & Reporting.**

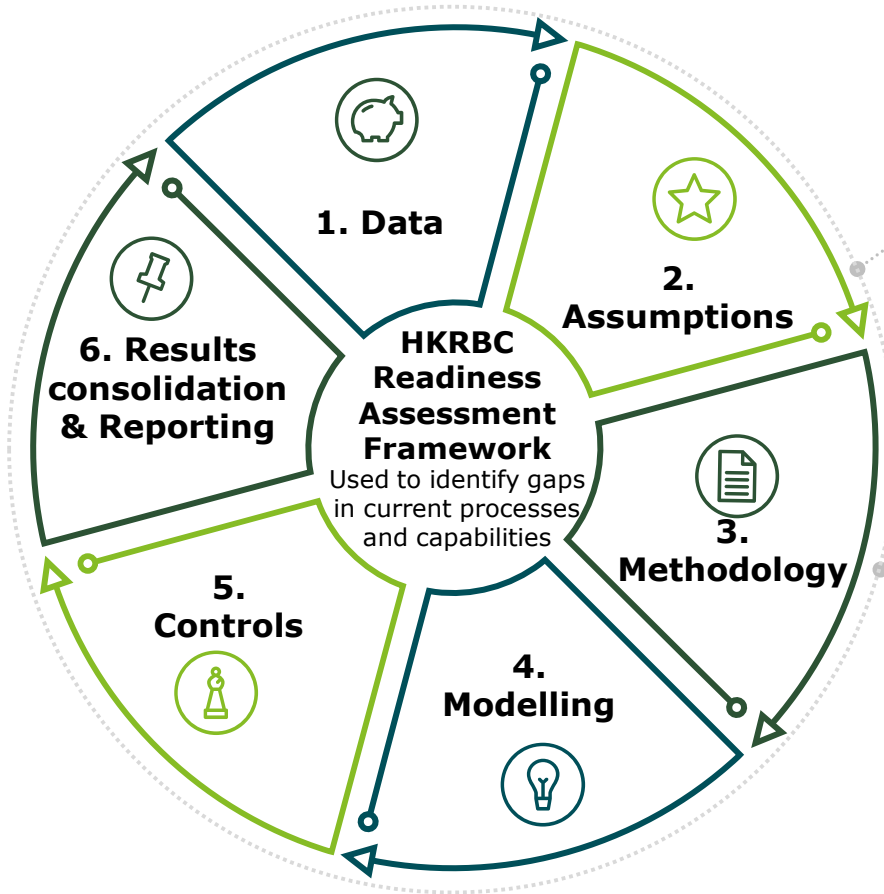
3. Identify and assess the gaps

- Identify and assess gaps using Deloitte's **HKRBC Readiness Assessment Framework.**
- Consider internal gap assessment completed by company.

4. Draft report, collect feedback and finalize report

- Draft report with findings and recommendations.
- Meeting to present gap assessment report and collect feedback.
- Final report allowing for feedback.

Identifying Gaps (1/2)



1. Compliance

Assess level of compliance with HKRBC regulatory requirements.

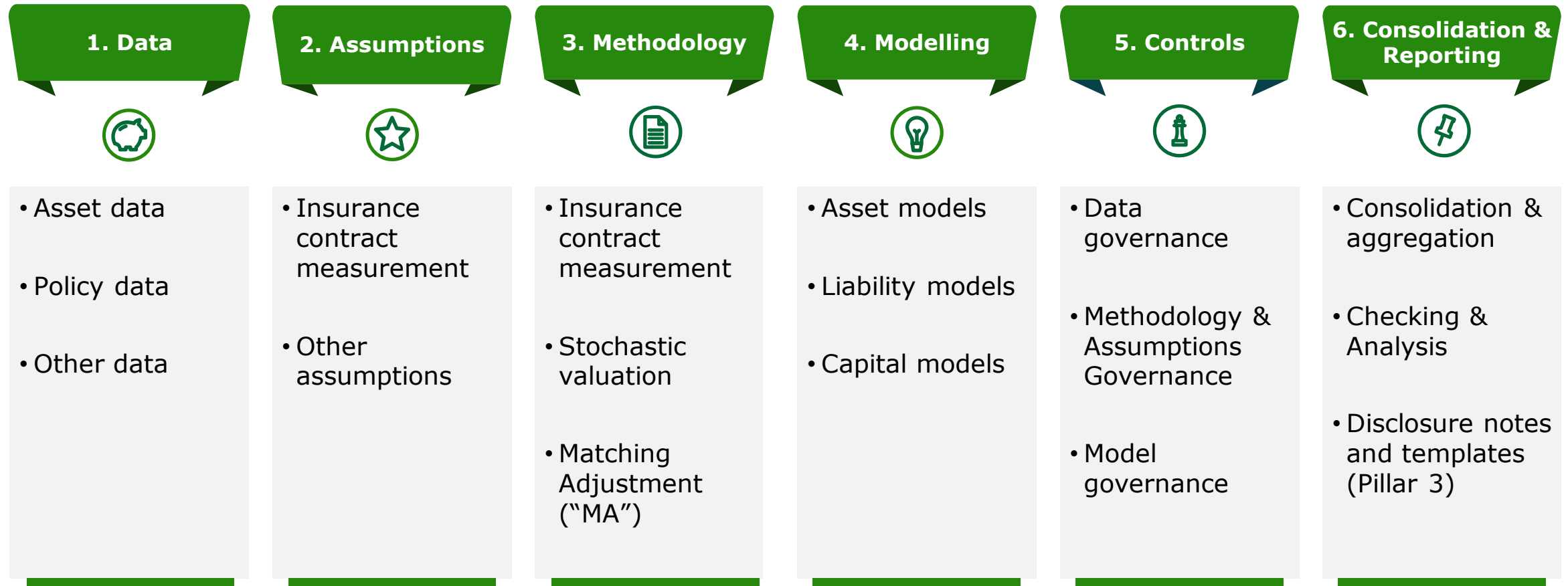
2. Production Capability and Speed

The ability to produce HKRBC solvency results and analyses in a timely manner to enable business decision-making.

3. Governance & Controls

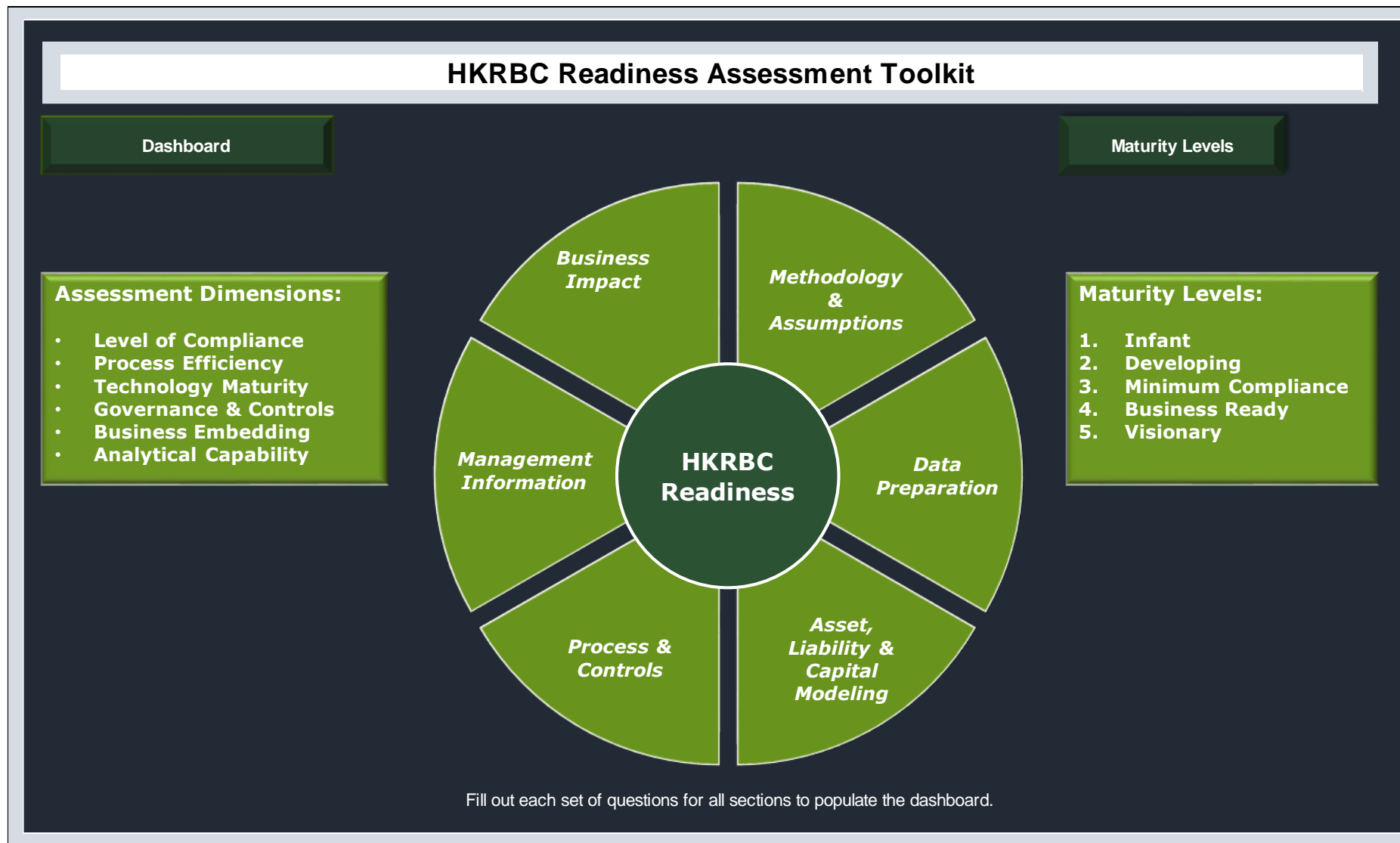
A robust governance and controls framework for the production of accurate and reliable solvency results for regulatory reporting.

Identifying Gaps (2/2)



Tool Walkthrough

Overview



Roadmap and Strategy

Roadmap & Strategy (1/3)

High-level roadmap to address the identified gaps



Considerations in producing the high-level roadmap

Steps and key activities for client to prepare for HKRBC:

- Data, Assumptions, methodology, model and controls development;
- Associated indicative timelines for key activities;
- Engagement with auditors, planning for Board engagement etc.

Roadmap & Strategy (2/3)

High-level roadmap and insights to address gaps

Areas

Asset Data

Model Points

MA
Calculation

Actuarial
Model Runs

Consolidation
& Reporting

Key Pain Points

Manual and time consuming processes

- Asset data from various sources, inconsistent formats
- Asset data transformation, mapping, validation and review
- Model Point File ("MPF") clustering and grouping process
- Iterative MA process
- Process to set up and kick-off Prophet runs
- Prophet results validation and consolidation

Deloitte Insights

Data

- Integrated Asset data platform
- Data is centralized, structured and validated automatically
- Data management and governance tool

Automation and Software

- Migrate Prophet Data Conversion System to Python for MPF
- Accelerate MA calculation through methodology simplifications
- Automate MA process
- Optimize utilization of cores on cloud
- PowerShell to streamline and automate with scheduling tools
- Power BI and Azure for report generation and visualization
- Regulatory templates automatically populated

Roadmap & Strategy (3/3)

Deloitte solutions implemented

Example 1: Matching Adjustment Automation

Design and implementation of MA process automation for a local subsidiary of a large multinational insurer.

Key benefits delivered:

1. Automated processes

- Consolidate data input from multiple sources, perform checks and enrichment and to populate Pillar 3 templates
- Prophet results extraction
- Reducing manual, repetitive and low-value adding processes

2. Acceleration of production timeline

3. Enhancement of process governance and control

Example 2: Credit modelling model enhancement

Prophet Asset Liability Strategy (“ALS”) model enhancement for a local subsidiary of a pan-Asian multinational insurer.







Key benefits delivered:

1. **Credit modeling capabilities** within Prophet ALS
2. Enhancement model **captures credit spreads, credit transition and default under risk-neutral basis**

4. RBC Regulatory Overview

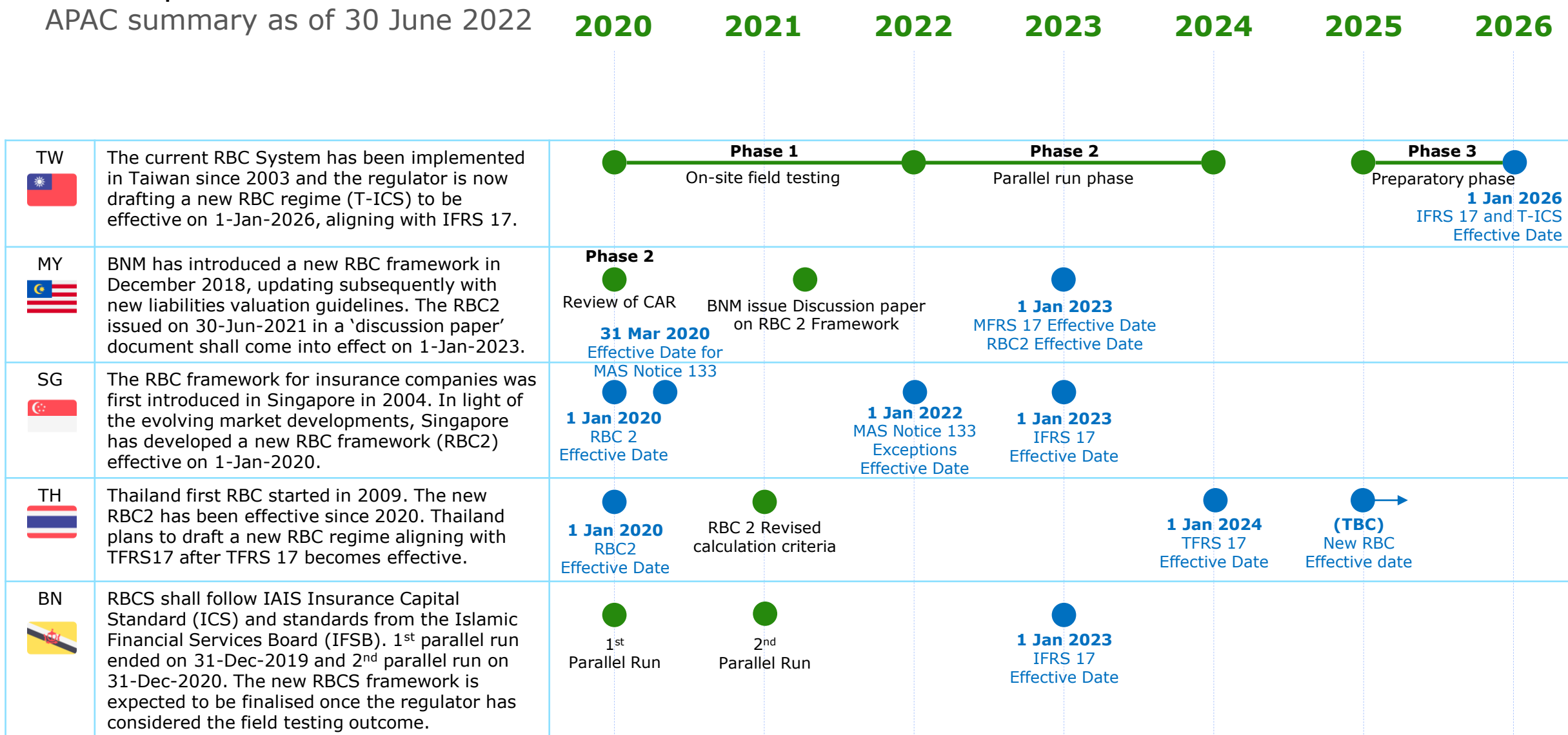
RBC Implementation Timeline

APAC summary as of 30 June 2022

		2020	2021	2022	2023	2024	2025	2026
	APRA has initiated the LAGIC framework since 2009 with strong parallels to Solvency II and intends to release its final Reporting and Prudential standards by end of 2022.							
	The Final Solvency Standard is intended to replace the Interim Solvency Standard once a concurrent review of NZ's Insurance Prudential Supervision Act 2010 (IPSA) is complete.							
	China implemented a new solvency regime, C-ROSS, in 2016. An amended regime, C-ROSS II, is now effective since 1-Jan-2022 with a first reporting date of 31-Mar-2022.							
	The current solvency regime is governed by the HKIO issued in 1999 (revised in 2004). HK is now implementing a new RBC regime to align with international regulatory requirements.							
	In 2010, the JFSA conducted the first field test for all insurers to calculate economic value-based insurance liabilities. In June 2020, a JFSA study group released a report recommending the new regime to be implemented in April 2025.							
	The current South Korean RBC has been in effect since 1999 and it was mainly based on EU Solvency I. Since then, Korean regulators have developed K-ICS, a completely new risk capital regulation aligning with IFRS 17 to some degree by referencing to both EU Solvency II and ICS.							

RBC Implementation Timeline

APAC summary as of 30 June 2022



RBC Regulatory Overview

APAC summary as of 30 June 2022

Jurisdictions	Local IFRS 17 aligned with IASB Effective date	Local IFRS 17 Effective date	New RBC Regime aligned with local IFRS 17 effective date	New RBC Regime Effective date
Hong Kong	Yes	1 Jan 2023	No	1 Jan 2024
Australia	Yes	1 Jan 2023	No	1 Jul 2023
Bhutan	No	Beyond 2023	No	Beyond 2023
Brunei	Yes	1 Jan 2023	No	Beyond 2023
Bangladesh	No	Beyond 2023	No	Beyond 2023
Cambodia	Yes	1 Jan 2023	No	Beyond 2023
China	Yes – For companies listed in both China and overseas No – For other companies	1 Jan 2023 – For companies listed in both China and overseas 1 Jan 2026 – For the other companies	No	1 Jan 2022
India	No	1 April 2024-25 / 2025-26	No	Beyond 2023
Indonesia	No	1 Jan 2025	No	Beyond 2023
Japan	Yes	1 Jan 2023	No	1 Apr 2025
Laos	No	1 Jan 2026	No	Beyond 2023
Malaysia	Yes	1 Jan 2023	Yes	1 Jan 2023
Myanmar	No	1 Oct 2023	No	Beyond 2023
New Zealand	Yes	1 Jan 2023	No	1 Jan 2025
Nepal	No	16 Jul 2023	No	Beyond 2023

RBC Regulatory Overview

APAC summary as of 30 June 2022

Jurisdictions	Local IFRS 17 aligned with IASB Effective date	Local IFRS 17 Effective date	New RBC Regime aligned with local IFRS 17 effective date	New RBC Regime Effective date
PNG	Yes	1 Jan 2023	No	Beyond 2023
Philippines	No	1 Jan 2025	No	Beyond 2023
Singapore	Yes	1 Jan 2023	No	1 Jan 2020
South Korea	Yes	1 Jan 2023	Yes	1 Jan 2023
Sri Lanka	No	1 Jan 2025	No	Beyond 2023
Taiwan	No	1 Jan 2026	Yes	1 Jan 2026
Thailand	No	1 Jan 2024	No	Beyond 2023
Vietnam	No – However, insurers with holding companies overseas applying IFRS aligned with the IASB can apply IFRS 17 at the same time of the group (1 Jan 2023)	1 Jan 2025 or 1 Jan 2026	No	Beyond 2023

RBC Regulatory Overview

Latest news

China

China Risk Oriented Solvency System (C-ROSS)

The C-ROSS framework – issued in 2012 and implemented in January 2016 – is similar to many new solvency regimes with three pillars focusing on **quantitative, qualitative and disclosure requirements**.

The China Banking and Insurance Regulatory Commission (CBIRC) commenced its amendment plan on C-ROSS in September 2017. The final standard was issued in December 2021 with the first reporting date of **31 March 2022**. The amended standard is known as **C-ROSS Phase II**. (i)

Compared with the original C-ROSS Phase I, **C-ROSS Phase II** adds new rules on look-through measurement with regards to market risk and credit risk's, capital planning and Lloyd's (China).

Main purposes of C-ROSS II:

1. Guide the insurance industry in returning to its initial purpose of protection and focusing on its main business.
2. More stringent capital recognition standards to prevent and mitigate risks in the insurance industry.
3. Promote the insurance industry to serve the real economy more efficiently and effectively.

References

- (i) <https://www2.deloitte.com/content/dam/Deloitte/cn/Documents/financial-services/deloitte-cn-fsi-weather-the-storm-volume-1-en-220128.pdf>
(ii) <https://www2.deloitte.com/cn/en/pages/financial-services/articles/china-risk-oriented-solvency-system-c-ross-phase-ii.html>

RBC Regulatory Overview

Latest news

Hong Kong

Hong Kong Risk-Based Capital (HKRBC)

In **May 2022**, Legislative Council Panel on Financial Affairs issued Legislative Proposals to Implement a Risk-based Capital Regime for the Insurance Industry of Hong Kong. (i)

The International Association of Insurance Supervisors (“IAIS”), which is regarded as the global standard-setter by several national insurance regulators, issued in 2011 the Insurance Core Principles in relation to capital adequacy, which prescribe principles for a risk-based approach for capital adequacy framework.

Considering Hong Kong’s position as an international financial centre and that of the Insurance Authority (“IA”) as a member of the IAIS, Hong Kong needs to implement a new RBC regime to align with international regulatory requirements.

The implementation progress of the RBC regime three pillars is as follows

Pillar	Description	Progress
Pillar 1	Quantitative assessment	Between 2017 and 2020, the IA conducted three rounds of QIS. After QIS 3, the IA has reached a consensus with the industry on the technical details and is planning to conduct a final consultation of the proposed rules in 2023.
Pillar 2	Corporate governance and risk assessment	After consulting the industry, the IA has issued the Guideline on Enterprise Risk Management (GL21). The relevant requirements took effect on 1 January 2020.
Pillar 3	Disclosure	Currently, the IA is consulting the industry on the proposed requirements in relation to the submission of information to the IA by insurers.

References:

(i) <https://www.legco.gov.hk/yr2022/english/panels/fa/papers/fa20220503cb1-217-5-e.pdf>

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RBC Regulatory Overview

Latest news

Hong Kong (continued)

Hong Kong Risk-Based Capital (HKRBC)

Legislative work in two phases

1. Introduce a Bill to provide the legal basis for implementing Pillar 1 and Pillar 3 requirements under the RBC regime. The Legislative Council Panel on Financial Affairs is now drafting the legislative amendments with the aim of introducing the Bill into the LegCo in **Q4 2022**.
2. Subject to the approval of the Bill by the LegCo, the IA will formulate the implementation details and related subsidiary legislation in consultation with the industry. The current target is to implement the RBC regime in **2024**.

Legislative proposals

- Valuation and capital requirements
- Funds requirements
- Requirement of maintaining assets in Hong Kong
- Actuarial matters
- Submission of information to the IA and disclosure of information to the public
- Regulatory and intervention powers
- Approval of and objection to controllers
- Transitional arrangements
- Taxation arrangements

References:

(i) <https://www.legco.gov.hk/yr2022/english/panels/fa/papers/fa20220503cb1-217-5-e.pdf>

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RBC Regulatory Overview

Latest news

Hong Kong (continued)

Hong Kong Risk-Based Capital (HKRBC)

During 2021 and 2022, the IA issued the draft Pillar 3 templates to insurers. The finalised version for report submission is expected to be released in 2023.

In **June 2022**, IA conducted a Pillar 3 Townhall meeting to summarise the key market concerns on the draft documents published till then, which arise from data granularity, reporting frequency and timeline of returns submission. IA suggested that the new Pillar 3 draft documents will address the industry concerns by streamlining some data requirement, taking reference from other jurisdictions on reporting frequency and timeline and allowing transitional arrangement. HKIA also provided responses to the comments received from the industry on its Pillar 3 consultation, transitional returns submission arrangement and signatory requirement.

RBC Regulatory Overview

Latest news

Japan

Japan Economic Value-based Solvency Ratio (JPESR)

Japan has been working on modernizing its solvency regime for the supervision of insurers for more than a decade. In May 2019, the Japan Financial Services Agency (FSA) created a study group to discuss future directions towards the development of a new “Economic Value-based” Solvency Regime (JPESR). (i)

In June 2020, the study group published a report entitled “**The Study Group Report on the Economic Value-based Solvency Regime**”, recommending implementation of the new regime in **2025**. This report has presented the following 3 high-level guiding principles:

- The new solvency regime will be constituted of three pillars.
- The standard formula will be broadly consistent with that in the ICS.
- The new regime could be implemented in **April 2025** (to be confirmed).

References:

(i) <https://www2.deloitte.com/jp/en/pages/financial-services/articles/ins/japans-new-insurance-solvency-regime.html>

RBC Regulatory Overview

Latest news

Malaysia

Risk-Based Capital 2 (RBC 2)

On **30 June 2021**, Bank Negara Malaysia (BNM) issued a discussion paper (DP) on the Risk-Based Capital (RBC) framework. (i) This DP outlines proposals to enhance the design of the RBC framework for all Insurers and Takaful Operators (ITOs). To facilitate this process, all ITOs were invited to provide feedback on the DP by **30 September 2021**. (ii) The status is still in 'discussion paper' as BNM has yet to finalise the requirements. BNM expects to finalise the new RBC framework with parallel run ending in 2023.

Industry players will comply with the existing RBC issued on 17 December 2018 (iii) as stated in the Financial Reporting policy document issued on 29 April 2022, when this policy comes into effect on **1 January 2023**. (iv)

References:

(i) <https://www.bnm.gov.my/-/dp-risk-based-capital-framework-instkf>

(ii) <https://www2.deloitte.com/content/dam/Deloitte/cn/Documents/financial-services/deloitte-cn-fsi-weather-the-storm-volume-1-en-220128.pdf>

(iii) Bank Negara Malaysia Financial Reporting Policy issued on 29 April 2022

(iv) Bank Negara Malaysia Risk-Based Capital Framework for Insurers issued on 17 December 2018

RBC Regulatory Overview

Latest news

New Zealand

Interim and Final Solvency Standards

In **October 2021**, key response to feedback from RBNZ on the Draft **Interim Solvency Standard (ISS)** was the announcement to defer the effective date of **1 January 2022** to **1 January 2023**, in line with the IFRS 17 standard.

RBNZ published its feedback to responses received on the Draft ISS for insurers on **9 March 2022** (i), taking into account upcoming changes to the accounting rules (IFRS 17), incorporating feedback into the current solvency standards and it is expected that the **Final Solvency Standard (FSS)** will be in force from **2025**.

RBNZ has published a **Review Version** of the insurance ISS on **31 May 2022** that contains a number of amendments over the July 2021 version inviting interested parties to comment on any technical or workability issues not previously identified (ii). Insurers that would like to participate can do so by **Friday, 15 July 2022**.

The FSS is intended to replace the ISS once a concurrent review of NZ's Insurance Prudential Supervision Act 2010 (IPSA), also underway, is complete. The intention is that insurers will have to rely on the **ISS** once it is effective in its form at that time and prior to being replaced by the **FSS**.

References:

(i) <https://www.rbnz.govt.nz/have-your-say/review-of-the-insurance-solvency-standards>

(ii) <https://www.rbnz.govt.nz/news/2022/03/interim-insurance-solvency-standard-refined-by-feedback>

(iii) <https://www.rbnz.govt.nz/regulation-and-supervision/insurers/consultations-and-policy-development-for-insurers/active-policy-development/review-of-the-insurance-solvency-standards>

RBC Regulatory Overview

Latest news

South Korea

Announcement of final version of K-ICS and presentation of transitional measures (December 2021)

At the end of 2021, the Financial Services Commission of Korea presented a final version of K-ICS, including various transitional measures and delays in timely corrective measures for the stable settlement of K-ICS.

Transitional measures were proposed in various aspects, such as available capital, required capital, reporting and disclosure as measures to help insurance companies smoothly adapt to the new system by alleviating rapid fluctuations in the solvency ratio under the new regime.

Three rounds of Quantitative Impact Study are still in progress, QIS 5·6·7 (2022).

RBC Regulatory Overview

Latest news

South Korea (continued)

Overview of the final draft of K-ICS

A. Solvency system

A solvency system that measures the risks inherent in an insurance company (required capital) and allows the insurance company to hold corresponding capital (available capital)

K-ICS ratio = available capital / required capital

B. Available capital

Available capital, which corresponds to the numerator of the K-ICS ratio, is based on net assets (assets minus liabilities) evaluated at present values of both assets and liabilities, and some items are adjusted from net assets in the financial statements to satisfy the principle of loss absorption.

C. Required capital

Required capital corresponds to the denominator of the K-ICS ratio, and a new risk such as longevity risk and catastrophe risk is added compared to RBC. In addition, a shock scenario method was introduced when measuring risk so that capital soundness can be precisely measured, and the level of confidence in the risk estimate was raised to 99.5% (current in RBC: 99.0%).

D. Added to the final draft (compared to K-ICS 4.0)

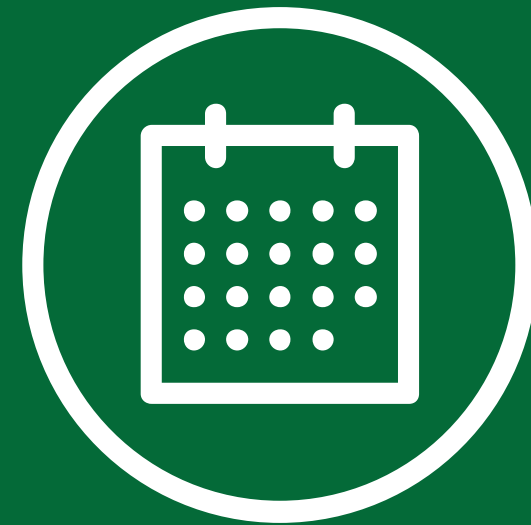
To expand the role of insurance companies as institutional investors and to encourage entry into the social service industry, the risk assessment criteria for long-term stocks and compulsory real estate have been relaxed.

Save the date

Please join us....

Next RBC Webinar

Second half of the year
Exact date to be announced later



Appendix

RBC Regulatory Overview

Latest news

Nepal

Risk Based Capital and Solvency Directive

On **28 January 2022**, the Insurance Board issued a “**Risk Based Capital and Solvency Directive, 2022 (2078)**”. The implementation of this Directive shall be carried out over the transitional period starting from **17 July 2023** (1 Sharwan 2080 in Nepali calendar).

The Insurance Board will put in place transitional measures for four-years-time to allow insurers to make the necessary changes to their internal systems and for the smooth transition to the Risk Based Capital Approach set out in this Directive and its developing rules.

Implementation of this Directive will be in stages from 1 Sharwan 2080 and full implementation shall be applied as of Ashad-End 2084 (equivalent to the year **2027**).

- The insurers shall calculate its Risk-Based Capital and its Available Capital resources as of Ashad-End 2081 (equivalent to the year **2024**).
- Insurers applying this transitional provision shall approve by the board a financial plan identifying the capital resources to use in order to cover the Risk-Based Capital or achieve its target solvency ratio.
- Insurance Board shall require at any moment amendments to the financial plan when it is not realistic

References:

<https://images.merolagani.com/Uploads/Repository/637794889864159878.pdf>

RBC Regulatory Overview

Latest news

Sri Lanka

Risk-Based Capital 1 (RBC 1)

Sri Lanka is currently following RBC 1 introduced in 2015 after the enactment of the draft version of RBC framework presented in 2012. Discussions are ongoing with between regulator and the insurance industry for making adjustments to the existing RBC regime due to the adoption of SLFRS 17 that the Institute of Chartered Accountants of Sri Lanka has proposed to defer until **2025**.

The World Bank has also agreed to support Sri Lanka Financial Sector Modernization Project (FSMP) over a period of 5 years (from 2017 to 2022), with the 3 financial sector regulators as the implementation partners: (1) the Central Bank of Sri Lanka (CBSL); (2) the Securities and the Exchange Commission of Sri Lanka (SEC); and (3) the Insurance Regulatory Commission of Sri Lanka (IRC SL).

References:

<https://projects.worldbank.org/en/projects-operations/project-detail/P159303>

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Glossary

ALM	Asset Liability Management	IFRS	International Financial Reporting Standards
APRA	Australian Prudential Regulation Authority	ISS	Insurance Solvency Standard
AIR	Actuarial Investigation Report	ICS	Insurance Capital Standard
BAU	Business As Usual	JPESR	Japan Economic Value-based Solvency Ratio
CAR	Capital Adequacy Ratio	LAGIC	Life and General Insurance Capital review project in Australia
CAS	China Accounting Standard	MA	Matching Adjustment
CBIRC	China Banking and Insurance Regulatory Commission	MAS	Monetary Authority of Singapore
CE	Current Estimate	MOCE	Margin Over Current Estimates
COA	Chart of Accounts	ORSA	Own-Risk and Solvency Assessment
C-ROSS	China Risk Oriented Solvency System	PCR	Prescribed Capital Requirement
DTA	Deferred Tax Asset	TOM	Target Operating Model
DTL	Deferred Tax Liability	TVOM	Time Value of Money
ESR	Economic Value-Based Solvency Ratio	QIS	Quantitative Impact Study
ETL	Extract, Transform and Load	WDT	Working Day Timetable
GL	Guideline		
HKFRS	Hong Kong Financial Reporting Standards		
HKIO	Hong Kong Insurance Ordinance		
HKIA	Hong Kong Insurance Authority		
HKRBC	Hong Kong Risk-Based Capital		

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