

Society of Actuaries in Ireland

Life Reinsurance and Innovation Forum Innovation in Asia

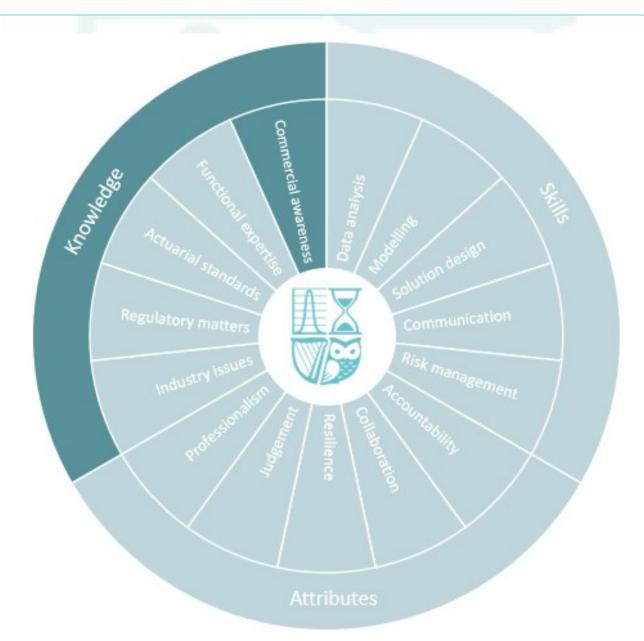
Dori Dong, Otto Ho and Bryce Sheppard

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The views expressed in this presentation are those of the presenter(s) and not necessarily those of their employer(s) (if any) or the Society of Actuaries in Ireland.



Competency Framework Wheel





- Examples of Innovation in Asia
 - Artificial Intelligence developments in China
 - Banking Data for Underwriting
 - Critical Illness Innovation in Asia
- Panel Discussion & Q&A

Hannover Re

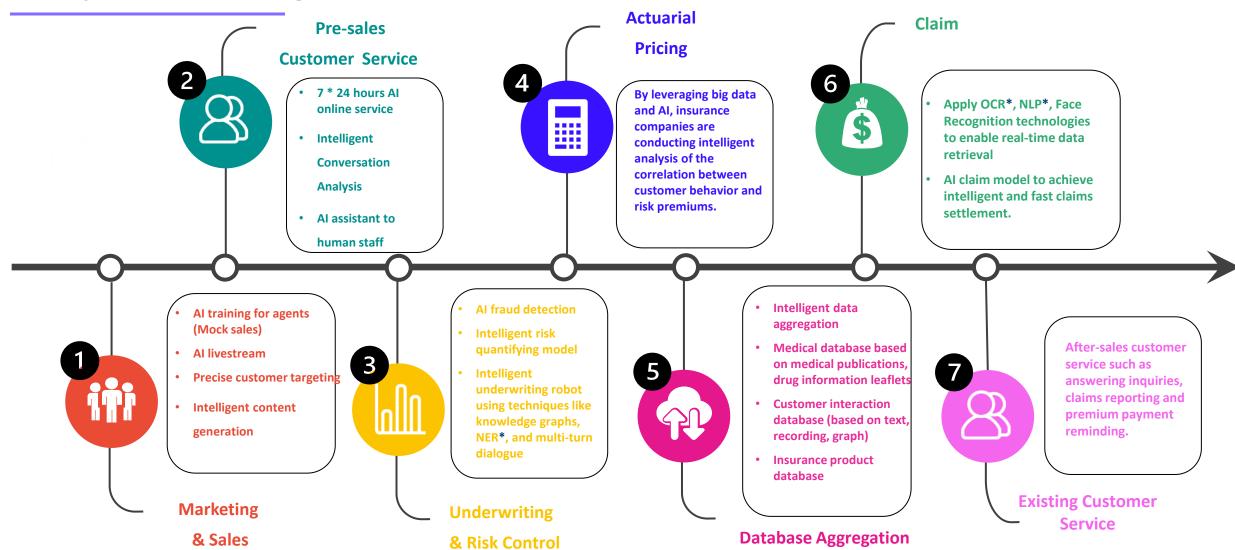
Artificial Intelligence in China Insurance

Dori Dong, Hannover Re

2025/4/16



Examples from the Big 5



Some Statistics

?%

UW decision by AI vs.

UW decision by human senior underwriter

?%

Human customer service %



? %

Automated claim handling %





? %

New policy non-manual UW %



Some Statistics

95 %

UW decision by AI vs.
UW decision by human senior

underwriter

25 %

Human customer service %



56 %

Automated claim handling %





93 %

New policy non-manual UW %



Trend







- From exploration to experiment to application
- From smart tools based on rules, data, and models to intelligent assistants that deliver actionable decision
- From single-node enhancements to holistic, intelligent optimization across the entire ecosystem and value chain
- ❖ What's next?



Hannover Re

Critical Illness product innovation in Asia

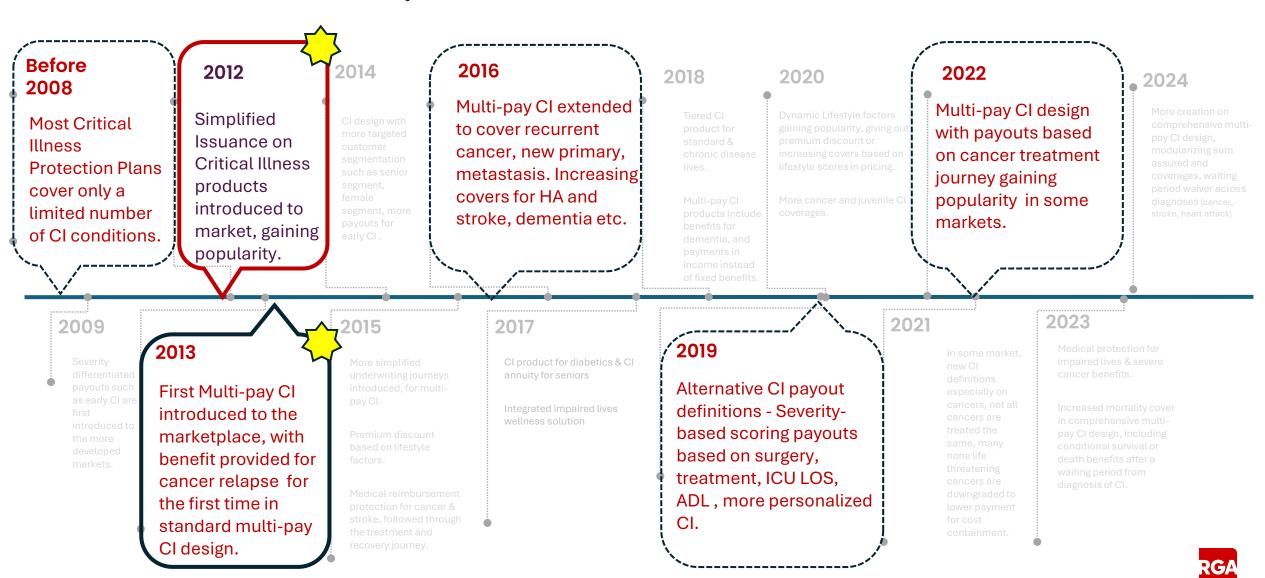
Otto Ho, Senior Vice President Chief Pricing Actuary, Asia Pacific

Reinsurance Group of America

16th April 2025



Evolution of Critical Illness products and solutions Success driven by continuous Innovations



Medical Technology Advancements Not only diagnosing CI earlier, but also improve recovery outcome, better survival and longevity

Pre-2000

Targeted and Immunotherapies under development with few drugs tested for clinical trials.

Early 2010s to-date

Commencement of Targeted and Immunotherapy drugs introduced as alternatives to radio-/chemotherapies.

Introduction of new cancer therapies has significantly improved recovery outcomes and survival rates postdiagnosis

Early 2010

Research into liquid biopsies and circulating tumor DNA laid groundworks for Multicancer Early Diagnosis (MECD) tests.

2019

FDA granted breakthrough device designation to several MCED tests, including those developed by GRAIL and Thrive Earlier Detection.

2021 - 2023

Various clinical trials and FDA review processes are ongoing for various MCED tests. GRAIL Galleri tests available in laboratory, not yet public.

Outlook

MCED expected to improve diagnosis earlier with higher accuracy.



Opportunities for Critical Illness in Asia

Ranges from Simple Solutions to Comprehensive Covers

Simplified Solutions for market scaling



 Simple and affordable CI design such as three CI or three Cancers

 Simplified underwriting and more tailored journey to enable speedy and early adoption of CI at targeted customer segmentation. More Comprehensive covers for Protection



- More comprehensive covers extending core Critical Illness coverages to multiple payouts, modularizing protection levels or payouts
- Severity based CI
- Enhancing CI design with Saving elements

Packaging Value added services into products



- Al-Enabled Remote Patient Monitoring Devices, and Cloudbased Diagnostic Platforms enable early detection and intervention, increasing survival rate, improved health and recovery outcome
- Tele-ICU Solutions to monitor and manage critically ill patients from a distance, improving patient recovery journey and survival



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Bryce Shepherd

Head of Client Solutions,

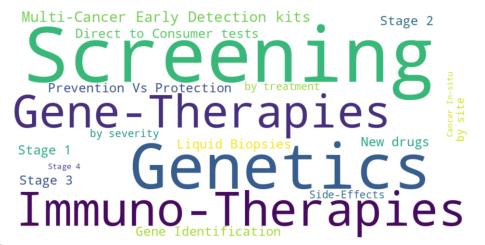
Europe Middle-East Latin America

PartnerRe

Example #1: Product Innovation

Product development is primary business driver in many Asian markets!

- There are *many* product types / structures to choose from...all very innovative.
- Consider why the innovation works within the construct of that market, e.g., the distributions, the underwriting, the pricing, etc.
- Today I'll be going through **Cancer Risk** innovations. Cancer is prominent in Irish CI products, it's the most frequent, it's always resonate with customers.





- The Cancer topic itself have many innovations to discuss...
- Again, I approached this from the perspective of the Irish market and current CI products.
- **Evolution** not revolution.

April 16, 2025

Example #1: Product Innovation

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Cancer Impact Benefit



 Sales considerations: To add a benefit that gives extra talking points for sales and make the CI base plan more comprehensive

- Product benefits:
 - Extra 20% SA upon the below events within 3 years due to cancer:
 - Severe facial disfigurement requiring reconstruction
 - Total mastectomy of both breasts which is Medically Necessary
 - Permanent stoma
 - Permanent tube feeding
 - Amputation



- ✓ Simple design
- ✓ Strong selling story. Easy for sales / customers to relate with experience from relatives / friends.



Example #2: Underwriting Innovation

Bancassurance – Segmentation & Simplification for Sales Success



An innovative approach that aligns Pricing and Underwriting to drive competitive simplified propositions in Bancassurance.

- Bancassurance protection pain points
 - Mortgage-first focus can deprioritize Protection...
 - Regulatory friction increases drop-off...
 - Sales journeys and underwriting is long, repetitive, and poorly incentivized for bank staff....

Enablers for success

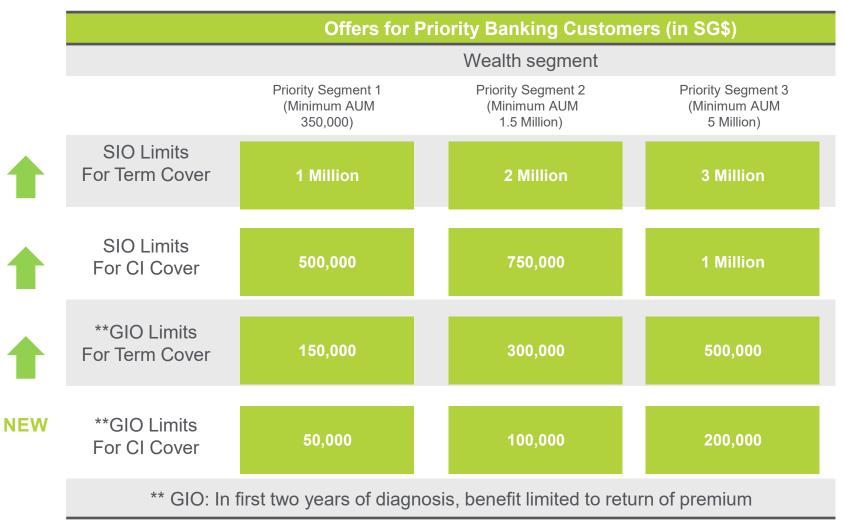
- Understand the pain points, remove barriers, 'think like a bank' with a 'life insurers risk assessment' ☺
- Central to the concerns -> Duration of process, data used, and ease of sale.
- What did we create? A simplified Underwriting framework for their sales process.
- What's the framework built on? Two key approaches:
 - 1. Use bank customer profiles (e.g., Wealth, Salaried) to pre-segment risk.
 - 2. Use banking data fields (e.g., AUM, income, credit limits, transaction counts) as risk proxies to drive smart automation and reduce friction.



Example #2: Underwriting Innovation

Simplified Underwriting Framework

- Table displays a differentiated SIO GIO offer for Wealth Customers.
- It uses Assets Under
 Management at different levels as defined by the bank's customer profiles.
- Less underwriting where risks more known.
- More underwriting when less known.
- Higher conversions for better business.
- With portfolio reinsurance rates the same, creates more margin.



20 April 16, 2025 Fx SGD to EUR = 0.66



Q&A