21st Asia Nat CAT and **Climate Change Summit**

Theme: "Forging a Catastrophe-Ready Asia -Insurance Innovation in the Face of Escalating Risks"

25-26 August 2025



Centara Grand & **Bangkok Convention** Centre at CentralWorld, Thailand

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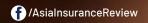
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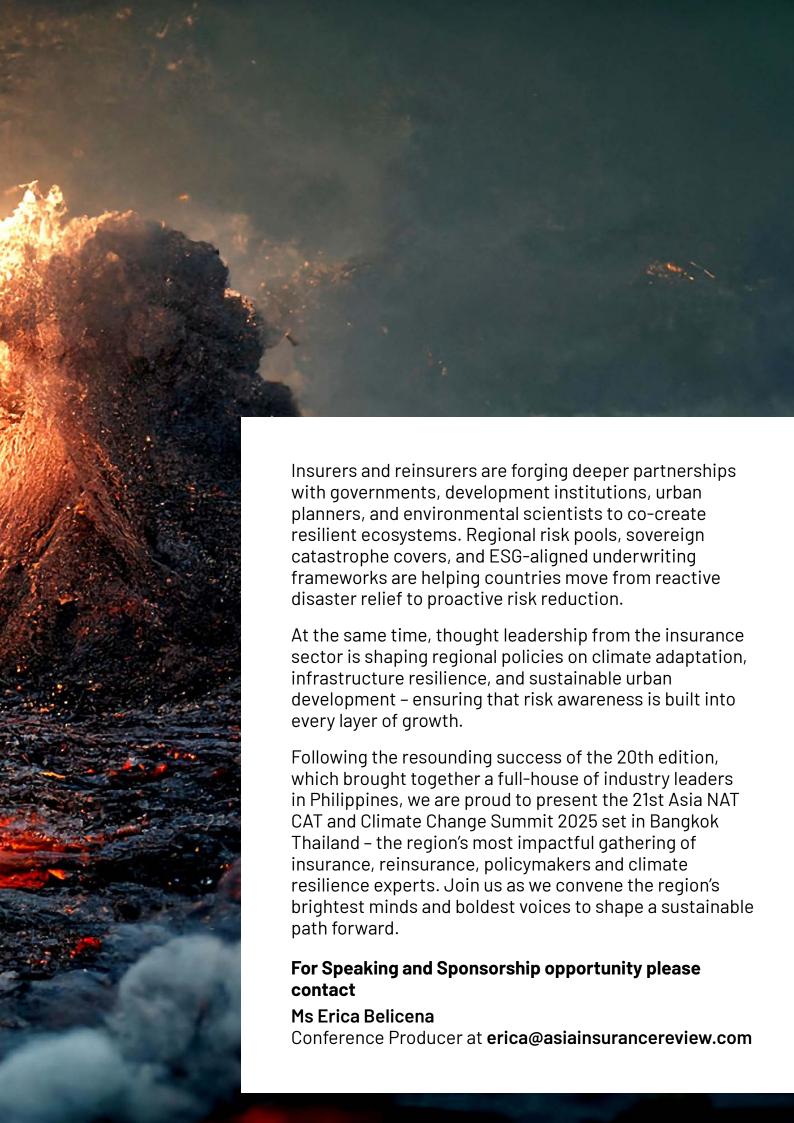


Amid the growing realities of climate volatility and environmental disruption, insurers and reinsurers are taking center stage as strategic enablers of resilience across Asia's interconnected business ecosystems. Their role today extends far beyond the risk of transfer. They are pivotal in reinforcing economic stability, protecting vulnerable communities, and safeguarding critical infrastructure from the escalating threats of natural catastrophes.

From super typhoons and mega earthquakes to flash floods, landslides, and the creeping rise of sea levels, the Asia-Pacific region continues to bear a disproportionate share of global disaster losses. In fact, more than 40% of the world's reported natural disasters occur in Asia, making the region one of the most exposed and vulnerable. The Asia-Pacific and African region experienced total losses of US\$91 billion from natural disasters in 2024, much higher than losses that amounted to US\$66 billion the previous year.

Yet, as the frequency, scale, and complexity of catastrophic events accelerate, so does the urgency for innovation, collaboration, and action. Insurers and reinsurers are not just financial risk managers – they are system-enablers. They provide crucial safety nets that allow governments, industries, and individuals to bounce back from disasters. Their role extends far beyond claims: they analyze emerging risks, model disaster scenarios, promote risk reduction behaviors, and influence public policy.

In the wake of devastating events, insurance plays a vital role in financing recovery and rebuilding, enabling communities to recover faster and more sustainably. Reinsurers, meanwhile, strengthen market capacity and liquidity, ensuring that risk is distributed globally and does not overwhelm local systems.



Key Topics

Risk Assessment, Modelling & Predictive Analytics

- Next-Gen Modelling Platforms: Integrating Climate Science, AI, and Real-Time Data
- Beyond the Probable Maximum Loss: Rethinking Tail Risks and Black Swan Events
- Regional CAT Risk Modelling: Local Nuances and the Push for Contextual Accuracy
- From Static to Dynamic: Real-Time CAT Model Updates in Fast-Moving Events
- Data Gaps and Blind Spots: Building Resilient Models Despite Incomplete Datasets
- The ESG Data Challenge in CAT Risk Models
- Open-Source vs Proprietary Models: Striking the Balance Between Transparency and Competitive Edge
- Evaluating the Evolving Cat Modeling Ecosystem and What It Means for Insurers, Reinsurers, and Regulators
- Cyber-Nat CAT Nexus: Expanding Risk Models to Include Cascading Systemic Threats
- Exploring How Future Models May Need to Simulate Interdependent Physical and Cyber Risks for Accurate Coverage Planning
- Bridging the Gap Between Model Developers and Underwriters
- Fostering Closer Collaboration to Ensure Models Are Actionable, Explainable, and Tailored to Real-World Underwriting Decisions
- Climate Attribution Modelling: Quantifying the Human Fingerprint on Natural Disasters
- How Insurers Are Beginning to Incorporate Attribution Science into Their Claims Frameworks and Risk Pricing

Real-Time Intelligence & Risk Mitigation

- Strengthening Public-Private Collaboration: The Role of Governments and Regulators in Building National Resilience Against Nat CAT Risks
- Leading Under Pressure: Executive Decision-Making During Catastrophic Events In high-stakes moments, leadership agility is critical
- Cross-Border CAT Leadership: Aligning Regional Workforce Strategy with Global Best Practices Disaster



- Mandatory Climate Risk Disclosure: What Insurers and Reinsurers Must Prepare
- Regulatory Frameworks for Parametric Insurance and Innovative Risk Transfer
- Aligning Insurance Supervisory Policy with Climate Adaptation Goals
- Climate Stress Testing and Scenario Analysis: Setting Standards Across Jurisdictions
- Bridging the Protection Gap: Public-Private Insurance Pools and Risk Sharing
- Disaster Risk Financing and Sovereign Insurance
- Leadership in Disclosure: The Board's Role in Climate and Risk Governance
- The Role of Central Banks and Financial Regulators in Climate Risk Oversight
- · Public-Private Innovation Labs for Risk and Resilience
- Regulatory Convergence in Asia Pacific: Towards a Unified Climate and CAT Risk Framework

Reinsurers & Insurers: Financial Strategy, Capital Resilience & Profitability

- Navigating Volatility: Climate Risk as a Financial Risk
- The Rising Cost of Risk: Pricing Adequacy, Loss Ratios, and Reinsurance Dynamics
- Capital Markets & Alternative Risk Transfer: Reinsurance Beyond the Traditional Model
- The Economics of Climate Adaptation: Underwriting Resilience and Financial Return
- Risk-Based Capital & Regulatory Pressure: Meeting Financial Standards in a Changing Climate
- Managing Retention vs Transfer: Capital Optimization in High-Risk Markets
- Profitability Under Pressure: Balancing Risk, Capital, and Competitive Pricing in Emerging Markets
- Reserve Adequacy & Claims Inflation in a Warming World
- ESG & Climate Risk Disclosure: Financial Reporting and Investor Expectations
- Strategic Reinsurance Placement in a Hard Market: Lessons from Recent CAT Events

Future Workforce, Talent & Risk Transfer Innovation

- Upskilling for Complexity: Training Talent for Multi-Hazard Risk Environments
- Embedding ESG and Climate Literacy into Risk Management Roles
- Al-Augmented Decision-Making: Redefining Roles in Risk Intelligence and Claims Processing
- The Rise of CAT Risk Specialists: Shaping the Next Generation of Technical Leaders
- Next-Gen Risk Transfer: Rethinking Talent Needs for Alternative Capital Markets and Parametric Insurance
- Remote Disaster Command Centers: Managing Distributed Teams for Rapid Response
- Attracting and Retaining Young Talent in Climate and Disaster Risk Professions
- Diversity and Inclusion in Risk Innovation Teams
- The Human Factor in Tech-Driven Risk Transfer
- Designing Agile Teams for Crisis Simulation and Preparedness Exercises



Who Should Attend

- Reinsurers
- · General Insurers
- Reinsurance & Insurance Brokers
- Underwriters & Claims Managers
- Government Officials involved with Catastrophe Exposures, Environmental Planning & Climate Change
- Climate Change Experts & Agencies
- Catastrophe & Seismology Experts
- Catastrophe Modelling Agencies
- Risk Managers
- Regulators
- Consultants & Actuaries
- · Capital Market Players
- Service Providers to the Insurance Industry

Day One 25 August 2025, Monday

8:00 am **Registration and with All-day premium coffee bar and refreshments**

9:00 am Conference Chairman's Kick-Off Remarks: Steering the Conversation Forward



John SpenceManaging Director, Asian Capital Advisors

9:05 am **Opening Ceremony & Introductory Remarks**

9:15 am Global Keynote: How the insurance Sector can Leverage Climate Data to Inform Risk-Based Policies, Decisions and Actions

This session will explore how publicly available climate resources such as regional state of climate reports, climate centres, and outlook forums, can be leveraged to support sector-specific resilience and economic development. It will also highlight practical examples of how the World Meteorological Organization (WMO) collaborates with insurers and communities to strengthen climate resilience.



Ben ChurchillDirector, Regional Office for Asia and the South-West Pacific,
World Meteorological Organization

9:40 am Rising Temperatures, Rising Risks: Addressing the Impact of Heatwaves on Insurance in Asia

As Asia faces intensifying and prolonged heatwaves driven by climate change, insurers are increasingly challenged to adapt to evolving health, agricultural, infrastructure, and business continuity risks. This session will explore how heatwaves are reshaping risk models, loss patterns, and coverage needs across Asia, particularly in urban centers and vulnerable communities. It will also discuss innovations in insurance solutions, public-private partnerships, and climate risk mitigation strategies essential for building long-term resilience against extreme heat.

10:00 am Panel 9

Panel Session with live 0&A

Building Tomorrow's Models: Climate-Responsive Risk Assessment in the Age of Uncertainty

Traditional CAT models are facing scrutiny amid the escalating volatility of climate risks. This session brings together modelers, regulators, and reinsurers to explore how the next generation of risk tools can better reflect real-world complexities, account for forward-looking climate scenarios, and enable more accurate pricing, capital planning, and solvency.

Moderator



Boyke Lukman

CEO at Fresnel Perdana Mandiri, Industry Representative of Indonesia Insurance Council

Panellists



Dr Jerasorn Santisirisomboon

Center of Regional Climate Change and Renewable Energy (RU-CORE), Ramkhamhaeng University (RU)



Ir. R. Ricky S Natapradja

President Director, PT JBBoda Viva Indonesia Reinsurance Brokers



Paige Roepers

CEO, Ocean Ledger



Michael Fung

Head of Analytics, Taiping Reinsurance Co., Ltd.

11:00 am Networking Session, Morning Tea and Coffee Break

Recharge, refocus, and reconnect during our dedicated Networking Sessions and Tea & Coffee Breaks, available in both the morning and afternoon. Use this valuable time to grow your connections, exchange strategic ideas, and refresh your energy for a full day of insights and interaction.

Let the conversations flow - powered by



11:25 am Protecting Marine Ecosystem and Coastal Communities in the Philippines Through Climate Risk Finance and Insurance

The Philippines, with its vast coastline and rich marine biodiversity, faces increasing threats from climate-induced hazards such as typhoons, storm surges, and sea-level rise. This session explores how climate risk finance and insurance solutions can serve as powerful tools to safeguard marine ecosystems and strengthen the resilience of vulnerable coastal communities. By leveraging innovative risk transfer mechanisms, public-private partnerships, and nature-based solutions, the discussion will highlight practical pathways to build adaptive capacity while preserving the country's environmental and economic lifelines.



Dante O Portula

Senior Advisor for Climate Risk Insurance, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

GIZ Philippines, Strengthening Disaster Resilience and Risk Mitigation through Ecosystem-based Planning and Adaptation (E4DR) project

11:50 am Projecting Earthquake Risk to 2065: Exposure, Losses, and the Carbon Cost of Disasters

By 2065, the landscape of seismic risk in the Asia-Pacific will be dramatically altered by climate policy, urban growth, and global inequality. This keynote explores future earthquake loss scenarios developed by the Global Earthquake Model (GEM) Foundation, under different Shared Socioeconomic Pathways (SSPs), highlighting how shifts in exposure, policies, and development trajectories will impact human and economic losses — and even the planet, through embodied carbon in damaged infrastructure. Drawing on GEM's mission and values, this talk will discuss how open, collaborative science enables innovation, equity, and global resilience.



Helen CrowleySecretary General
Global Earthquake Model (GEM) Foundation

12:15 pm Corporate Luncheon Buffet

1:15 pm Low Carbon City (LCC) Program and the role of insurance in monetizing carbon credits

The LCC Program is a flagship initiative by the World Bank and the Royal Thai Government to support action on climate change. It is designed to drive Thailand's transition toward a low-carbon economy by enabling emission-reduction investments and generating carbon credits that meet international standards. Through a robust system of measurement, reporting, and verification (MRV), the program establishes the necessary infrastructure for carbon market readiness and unlocks access to carbon finance. It aims to aggregate small-scale, fragmented efforts into credible, tradable assets – catalyzing both local development and national climate ambition. With growing interest from peers across ASEAN and other middle-income countries, the LCC model holds strong potential for replication as a regional platform.



Marc Forni Lead Specialist, Urban Resilience, World Bank Group

1:40 pm Closing the Gaps: A Holistic Approach

Protection gaps across Asia are widening, driven by climate change, rapid urbanisation, and economic transitions. This session explores a holistic approach to resilience-linking risk reduction, increasing insurance penetration, and fiscal risk financing into a unified strategy. By coordinating across sectors and aligning incentives, we can better manage interrelated risks efficiently and build long term risk and hence economic resilience.



Dickson Wong

Director, Global Asia Insurance Partnership (GAIP) representative

2:05 pm Panel Session with live Q&A

Mandatory Climate Risk Disclosure: What Insurers and Reinsurers Must Prepare for Insights into global regulatory trends, reporting standards, and how to embed compliance into operations.

Gain practical insights into how to interpret evolving requirements, embed compliance into enterprise-wide operations, and turn regulatory obligations into strategic advantage. Attendees will learn how forward-thinking insurers manage data challenges, align financial and sustainability reporting, and prepare for the next wave of supervisory scrutiny.

3:05 pm Senior Leadership Address from Thai General Insurance Association

3:30 pm Networking Session, Afternoon Tea and Coffee Break

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Let the conversations flow - powered by

Joint Presentation with WNI: "Strengthening Marine Risk Resilience – Innovations in Loss Prevention Amidst Escalating Weather Extremes"



3:55 pm

Juthathawat Pengsri Vice President, Marine Department, MSIG Insurance (Thailand)

4:20 pm End of Day 1 session: Closing Remarks by the Conference Chairman



John SpenceManaging Director, Asian Capital Advisors

Day Two 26 August 2025, Tuesday

8:00 am **Registration and with All-day premium coffee bar and refreshments**

9:00 am Conference Chairman's Kick-Off Remarks: Steering the Conversation Forward



John Spence Managing Director, Asian Capital Advisors

9:15 am Finance Dialogue: "Insuring Tomorrow – Unlocking Adaptation, Investment, and Inclusion"

In a world increasingly shaped by climate risk, how can finance drive resilience? Join us for a forward-looking conversation from the perspective of a multilateral lender, where long-term investments meet climate adaptation. This session explores how innovative financial tools are unlocking private capital for resilient infrastructure, while promoting transparency in the resilience of built assets. Discover how stakeholders can bridge the gap between risk and opportunity – ensuring that adaptation is not just a necessity, but an investable future.



Jan P Mumenthaler

Regional Insurance Lead - Asia, International Finance Corporation, World Bank Group

PARIMA Board Member

9:45 am Leadership Address: Advancing Regional Cooperation on Natural Disaster Risk and Insurance Solutions



Kocu Hutagalung

President Director, MAIPARK

Chairman, ASEAN Natural Disaster Research and Works Sharing (ANDREWS) Committee of ASEAN Insurance Council

10:10 am Strengthening Public-Private Collaboration: The Role of Governments, Regulators, and Insurers in Building National Resilience Against Nat CAT Risks (1 Moderator and 3 Participants: Government/Regulator, Insurer, and Development/Policy Expert)

Natural catastrophe risks are escalating in both frequency and severity, demanding a unified and coordinated response across sectors. This session will explore how governments, regulators, and the insurance industry can forge stronger public-private partnerships to enhance national disaster resilience in Asia. From enabling risk financing frameworks and designing regulatory incentives, to supporting insurance penetration in high-risk and underserved zones, the discussion will highlight policy innovations, insurer-led solutions, and cross-sector collaboration that drive long-term risk reduction, financial protection, and climate adaptation at scale. The panel will also address the need for integrated data, risk modelling, and inclusive coverage schemes to bridge resilience gaps across the region.

10:40 am Networking Session and Morning Tea and Coffee Break

11:10 am Thought Leadership Address



Yusuke Taishi Head of Climate Change Adaptation - Programming, United Nations Development Programme (UNDP)

11:35 am From Science and Technology to Practical Risk Management Applications and Decisions

This presentation demonstrates how scientifically derived analytics, such as satellite Earth Observation data and Artificial Intelligence, can help risk management practitioners make informed decisions. The wide variety of the applications ranges from supporting the understanding of risks to real-time monitoring of hazards and their estimated impacts. Examples from several countries in Asia will be highlighted to stimulate further discussions.



Dr Peeranan TowashirapornDirector, Asian Disaster Preparedness Center (ADPC)

12:00 nn Corporate Luncheon Buffet

1:00 pm Visionary Address

Encouraging science-based policy to strengthen national environmental risk management and SDGs attainment: A look at Thailand

This session explores how science-based policymaking can drive more effective environmental risk management and accelerate progress toward the Sustainable Development Goals (SDGs). Using Thailand as a focal point, the discussion will highlight the importance of data-driven decision-making, cross-sector collaboration, and the integration of environmental science into national planning. The session aims to showcase best practices, policy innovations, and the role of institutions in translating scientific insights into actionable strategies for resilience and sustainable development.



Dr Monthip Sriratana

Senior Advisor, National Research Council of Thailand

Deputy Director, General of the International Research Center on Big Data for Sustainable Development Goals (CBAS), China

Director, Digital Belt and Road-International Center of Excellence-Bangkok (DBAR ICoE-Bangkok)

1:25 pm Climate Change: The impact of climate-related risks on insurance availability and pricing



Ir. R. Ricky S Natapradja
President Director, PT JBBoda Viva Indonesia Reinsurance Brokers

1:50 pm Parametric Insurance in Asia: Catalyzing Resilience for Communities and Economies (1 Moderator and 2 Participants)

As Asia grapples with intensifying climate-related disasters, ranging from typhoons and floods to droughts and earthquakes, there is a growing need for faster, more scalable, and targeted risk-transfer mechanisms. Parametric insurance has emerged as a powerful tool in addressing these needs by providing pre-agreed, rapid payouts based on specific triggers such as wind speed, rainfall levels, or seismic activity, rather than waiting for traditional claims assessments.

This session explores how parametric insurance is shaping resilience strategies at both the community and sovereign levels across Asia. It will bring together leaders in risk financing, disaster recovery, and insurance innovation to discuss practical applications, challenges in adoption, and the role of technology, regulation, and partnerships in unlocking the full potential of parametric models.

2:25 pm Aligning Insurance Supervisory Policy with Climate Adaptation Goals and Strategies for national regulators to guide insurers in promoting long-term resilience and sustainable underwriting.

As climate risks intensify, national regulators play a critical role in shaping an insurance sector that supports long-term resilience. This session explores how supervisory frameworks can be aligned with climate adaptation goals—guiding insurers toward sustainable underwriting, forward-looking risk assessments, and the integration of adaptation measures into product design and investment strategies. By embedding climate considerations into regulation and oversight, supervisors can foster a more resilient financial system and ensure the insurance industry contributes meaningfully to national adaptation efforts.

2:50 pm Networking Session and Afternoon Tea and Coffee Break

3:20 pm **Pioneering Parametric Insurance in the Pacific: Fiji's Journey Towards Climate Resilience**

My presentation will highlight Fiji's unique vulnerability to natural catastrophes, SUN Insurance's proactive role in addressing these risks through innovative insurance solutions, and lessons that can be shared with other small island nations and larger markets alike.



Avikash RamPrincipal Officer & CEO, SUN Insurance Company Limited

3:45 pm Research and the operation of a national flood forecasting system



Speaker from Hydro-Informatics Institute (HII), Ministry of Higher Education, Science, Research and Innovation, Thailand

4:10 pm End of day 2 session: Closing remarks by the Conference Chairman



John Spence Managing Director, Asian Capital Advisors

Agenda Disclaimer

The agenda for the 21st Asia NAT CAT and Climate Change Summit 2024 is subject to change without prior notice. While every effort has been made to ensure the accuracy of the programme, the organisers reserve the right to make adjustments as necessary, including but not limited to session timings, speaker line-up, topics, and event format.

Such changes may be due to unforeseen circumstances, speaker availability, or other logistical considerations. Any updates will be reflected in the official event materials and communicated to registered delegates through appropriate channels.

The views expressed by individual speakers or panelists are their own and do not necessarily represent those of the organisers or sponsoring organisations.

Diversity & Inclusion Statement

The 21st Asia NAT CAT and Climate Change Summit 2024 is committed to fostering diversity, equity, and inclusion across all aspects of the event. We strive to ensure balanced representation in our speaker lineup across gender, geography, expertise, and backgrounds. Our goal is to create a platform that reflects the diverse voices shaping the future of climate resilience and catastrophe risk management in Asia and beyond.



21st Asia Nat CAT and Climate Change Summit 25-26 August 2025, Centara Grand & Bangkok Convention Centre at CentralWorld, Bangkok, Thailand

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