# Empowering Inclusive APEC Resilient City and Community for Sustainable Development

APEC Emergency Preparedness Working Group

September 2026

Asia-Pacific
Economic Cooperation

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**September 2026**

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# 1. EXECUTIVE SUMMARY

## APEC Economies, Cities and Community Experience Similar Challenges - Natural Disasters and Weather Extremes

APEC Emergency Preparedness Capacity Building Center (EPCC) and APEC Research Center for Typhoon and Society (ACTS) host bi-annual APEC Resilience Week (APECRW) under APEC. The 2025 APECRW carried forward the **2023 Seattle** Guiding Principles – APEC Non-Binding Resilient City/Community Guiding Principles to further explore the approach in capacity building from 2 to 5 August during SOM3 cluster, Incheon, Korea and called upon cross-fora for collaborative STI solution - meaningful engagement to contribute on mapping out the APEC Resilient City and Community for “Building a Sustainable Tomorrow”.

## Cross-fora Connectivity

2025 APECRW in Incheon was hosted in two consecutive meetings during SOM3 cluster: APEC funded project **EPWG 102 2024A** - Empowering Inclusive APEC Resilient City and Community for Sustainable Development (2-3 August as 2-day physical attendance in Incheon, Korea) and **PPSTI 202 2024A** - APEC Meeting on Climate Resilient City (4-5 August as 2-day physical attendance in Incheon, Korea).

APECRW Invited Chairs, Co-Chairs and Lead Shepherds from **PPSTI, EPWG, SMEWG, ACTWG, SCSC, CTI, DESG and SFOM-FMP** for meaningful engagement on sharing cross-cutting issues and engaging cross-fora cross-economy collaborations of their long-lasting contribution and work-in-progress under APEC to benefit their insightful vision and practical recommendation for PPP on synergy.

On behalf of Chinese Taipei, we appreciated the active involvement participation in Incheon as a gesture of the keen partnership under APEC between EPWG and PPSTI and beyond. The fruitful outcomes, recommendation,

and cross-fora synergies will open a new chapter for resilient APEC on connectivity.

## Promoting “APEC Resilience City and Community Initiative”

In light of the need to carry forward the 2025 **SDMOF** (Senior Disaster Management Official Forum) discussions into concrete actions and deeper collaboration concluded, Korea and Chinese Taipei co-host the APECRW to serve as an excellent networking for cooperation on “Resilience-Oriented Disaster Management” to fulfil the objectives of engaging **Join Action to Harnessing APEC Resilient STI on Emergency Preparedness.**

## Encouraging Quality Infrastructure Investment and Disaster Risk Financing and Insurance for SMES/MSMES Resilience

**August 2-3 EPWG** APEC Workshop on Empowering APEC Resilience City and community for Sustainable Development identified future **STI** (Science, Technology and Innovation) **for DRR** (Disaster Risk Reduction) approach to tackle challenges and explore **collaborative STI solutions** through **PPP** (public private partnership) while fostering a sustainable APEC community. The workshop conference brought together stakeholders a total of 62 among 17 economies; Canada; Chile; Indonesia; Japan; Korea; Malaysia; Mexico; New Zealand; Papua New Guinea; Peru; the Philippines; Singapore; Chinese Taipei; Thailand; the United States; and Viet Nam; from cross-fora government, academia, business leaders joined together in Incheon to address **pressing challenges** for exploring **practical strategies** on **STI based DRR** through PPP. To open a new chapter for cross-fora collaboration, delegates and experts from **EPWG, PPSTI, SMEWG, CTI, FMP, SCSC and EGILAT** highlighted **three** critical key areas **for meaningful collaboration** (as per attached ANNEX C: Recommendations):

- **Connect** Stakeholders on Policy-led Local Driven Solutions for Synergy
- **Innovate** STI on DRR through AI for Smart Cities, Smart energy, Quality Infrastructure and Infostructure Investment

- **Prosper** on Resilience Proactive Disaster Preparedness, Quick Response and Recovery




## Chinese Taipei Echoes the Japan Initiative on Quality Infrastructure Investment (QII) and Community Based Strategy for Community-Based Disaster Risk Management for APEC Resilient City and Community

The APECRW policy dialogue and expert meeting was held to cover natural disaster, weather extremes to better prepare for, respond to and quick recovery from the impact and aftermath of facilitating the business continuity and supply chain resilience for boosting the economies on resilient whole of society in APEC. The discussion was focused on utilising STI tools (i.e. **AI,** smart policy/solution, big data and open data) to exploring concrete policy commitments to build the **APEC Resilient City** on **CBSDM** (Community-Based Disaster Risk Management). The 2025 APECRW highlighted the common interests in **PPP** and provided a timely opportunity for strengthening **regional connectivity** and **collaborative actions** through **collective STI for DRR approach** towards a Resilient APEC over challenges.

# 2. APEC RESILIENCE WEEK

## 2.1. OVERVIEW

In line with APEC priorities, initiatives and roadmaps in 2022 and 2023 regarding fostering resilient digital economy, EPCC continued to focus on enabling STI for DRR and climate change adaptation (CCA) as well as empowering MSMEs/SMEs, indigenous, local and gender as appropriate for sustainable growth for facilitating resilient development. Aiming at developing multi-hazard interdisciplinary approach for capacity building on information sharing to motivate proactive actions through early warning and proactive countermeasures, structural sessions were formulated on sharing how to better prepare for, respond to and recover from the weather extremes and disasters. This project also supported sustainability and inclusion, digital innovation and resilient growth through promoting smart policy and solution on “Force for Good”, building capacity, ease of accessing to STI for promoting QII for building an APEC Resilient City.

To enhance APEC resilience as a whole of society to tackle the societal challenges, EPCC echoed to “APEC Resilient City and Community Initiative” for Inclusive DRR and encouraged greater economic and technical cooperation to prosper for “creating a sustainable for all” based on : 1) Multi-hazard Approach, 2) Gender and Community Empowerment, 3) STI Enablement, 4) MSMEs and SMEs Empowerment-Business Continuity Planning for Supply Chain Connectivity, 5) Risk-based Disaster Mapping for the Design of Structures in Vulnerable Area, 6) Resilient/Quality Infrastructure Investment and 7) Disaster Risk Financing and Insurance.

In this context, the objectives aimed to elaborate the synergy of capacity building on innovative sustainability and inclusive growth through smart policy and technology to promote APEC Resilient City and Community initiatives and carries on the fruitful outcomes of EPWG and SDMOF on mitigation, preparedness, response, recovery and adaptation through:

1. Sharing the best practices for APEC Resilient City and Community
2. Sharing smart resilient city policy planning and strategy
3. Showcasing female's contributions on ARC initiatives

On 2-3 August 2025 from 9:00 pm to 5:00 Korea Time (GMT +9 / UTC+9) for **APEC Workshop on Empowering Inclusive APEC Resilient City and Community for Sustainable Development (APECRW 2025)** following the expert meeting and policy dialogue. The workshop was scheduled in the margin of SDMOF (the agenda attached as ANNEX A) to maximize involvement from attendees and speakers from APEC economies. This report summarizes the proceedings and discussions. A diversified portfolio of experts' involvement creating impactful networking for future **STI for DRR** and **cross-fora PPP**.

Qualified **female speakers and active participants involved** were particularly encouraged and welcomed to contribute on policy-led and local-driven solutions. Stakeholders invited from the government agencies related to emergency preparedness, DRR, CCA, resilience, capacity building, weather extremes, pandemic spreading, BCP (business continuity planning) , SCC (supply chain connectivity), weather smart technology, CBSDRM, disaster risk financing and insurance, quality infrastructure investment, digital economy and sustainability were decision makers, professionals or practitioners working in the field to share their finding and experience on inclusion policies making and implementation processes.

## Acknowledgements

The APEC Disaster Resilience Workshop hosted by Korea and Chinese Taipei in the margin of the 2025 SOM3 and related Meetings was organised by EPCC co-sponsored by **Chile; Japan; Korea; New Zealand;** and **Viet Nam** with collaborative support from **MOIS** (Ministry of Interior and Safety, Korea), **KGSI** (Global Strategy, Korea), **CAO** (Cabinet Office, Japan), **ADRC** (Asian Disaster Reduction Center), **MLIT** (Ministry of Land, Infrastructure, Transport and Tourism), **NITECH** (Nagoya Institute of Technology), **FEMA** (Federal Emergency Management Agency, The United States), **NEMA** (New Zealand's National Emergency Management Agency, New Zealand), **DFATD** (Foreign Affairs and International Trade Canada), **HUST (**Hanoi University of Science and Technology), **SENAPRED** (National Service of National Prevention and Disaster Response), **CONCYTEC** (National Council for Science, Technology and Innovation), **AMEXCID** (Mexican Agency for International Development Cooperation), **BRIN (**National Research and Innovation Agency, Indonesia), **PLANMalaysia**, **ACTS** under PPSTI and **APCC** (APEC Climate Center) to facilitate the cross-fora institutional support among **EPWG, PPSTI, SMEWG, CTI, FMP, SCSC and EGILAT**.

EPCC would like to express the profound appreciation to the honorable delegates and guests, distinguished experts and speakers for their **force-for-good** contributions and endeavours on DRR and CCA on **leaving no one behind** in promoting **"APEC Resilient City and Community"** and "**QII**" initiative for "**Building an Asia-Pacific Community to Prosper Together**" with key priorities of **Openness**, **Innovation**, and **Cooperation** to enhancing regional connectivity, advance the Free Trade Area of the Asia-Pacific (FTAAP), and drive resilient green and digital economic transitions over disasters and weather extremes impacts.

## Background

### APECRW Commitments

Following the concluding summary of 2023 APERW in Seattle (EPWG 01 2022S and PPSTI 06 2022S), this project further developed the action in association to **strengthening the resilience of communities, infrastructure, services and systems which came at a cost, but far less than the cost of reconstruction and repair after disasters and weather extreme struck** for implementing 2025 APECRW to showcase the value of proactive emergency preparedness in saving lives and quick recovery.

We shared the best practices from different contexts, including the resilient community, capacity building, QII, BCP and SCC in APEC region from the mega-cities' challenges to the remote rural communities' resilience. The DRR challenges and solutions discussed were diverse but solid with consensus on "**Utilising the modern technology, it must be based on day-to-day activities, experience and knowledge of communities to benefit from the diversity**." Diversity generated a rich knowledge including local and indigenous database in each APEC economies to harness the Asia-Pacific region on sustainable growth.

**Facilitating the PPP on Early Warning Networking** to offer a range of services accessible to a wide range of stakeholders from governments to communities to highlight the APEC priority for Action of APEC DRR Framework, to strengthen understanding of DRR aligned with the EPWG mandates emphasis on enhancing community resilience over disasters and weather extremes. **QII through PPP** to ensure the STI tool availability for building DRR/CCA capacity is the key to support long-term risk-informed resilience. **The whole-of-society society approach** can facilitate identifying the common challenges and interests to motivate CBSDM of the stakeholders in the fields to pioneer innovative DRR an CCA capacity building for resilient APEC.

For cooperations and improvements on these key issues for APEC economic sustainability, EPCC engaged the policy makers and stakeholders of society to

dialogue for synergy through sharing the good/best practices. For synergy, EPCC shouldered to network for cross-fora collaborations on capacity building to connect people, communities, cities and economies in APEC region and facilitated the readiness of infrastructure and policy for sustainable development as a resilience enabler. EPCC valued highly of the policy-led countermeasures and capacity building in practices to drive the change of an actionable implementation for the inclusion growth. **The impact-based multi-hazard risk-informed networking** built underneath APECRW facilitated cross-border security, resilience and connectivity on people-center basis. In light of this, networking on quality impact-based early warning information sharing came to be the urgent mission for enabling communities and economies to quickly recover from the aftermath. Based on the guiding principles developed in Seattle as following, 2025 APERW focused on inviting and investing joint efforts to facilitate APEC Resilient City and Community:

**Guiding Principles-APEC Non-Binding Resilient City/Community Guiding Principles**

2022 APEC Disaster Resilience Workshop

4 August 2023

Seattle

***APEC Non-Binding Resilience City/Community Guiding Principles***

**APEC Resilient City and Community** Initiative for Inclusive DRR and CCA

**Gender and Community Empowerment**

1. Engage women, children, youth, people at-risk or vulnerable groups in disaster risk reduction (DRR) and climate change adaptation (CCA) planning and implementation.
2. Prioritize inclusive, people-centered and gender balance approaches to reduce risks and vulnerabilities, with preparedness planning on community-based disaster risk management.

3. Engage local NPOs and NGOs in the loop of decision-making, planning, and implementation.
4. Localized preparedness and early warning. Invest in accessible and inclusive multi-hazard early warning and early action systems.
5. Integrate local, community and scientific knowledge into the development of early warning and early action systems.
6. Continue to share the best practices on gender balance and supply chain connectivity that strengthen community resilience.
7. Pre-identify community networks and strengths that can be accessed for preparedness and recovery and mobilize them for pre-disaster recovery planning and preparedness.

**Science, Technology and Innovation Enablement**

8. Provide smart digital tools for better data management, ensuring everyone can access and share the data they need to protect themselves and save their livelihoods.
9. Utilize big data and open data as well as plan disaggregated data collection to support better DRR coordination on the use and distribution of data.

**CTI-DESG**

10. Ensure interoperability for a whole-of-society approach on how to leverage the frontier smart technology and innovation on strengthening disaster risk management for a resilient, inclusive, balanced and sustainable for all from gender-balanced perspectives.

**MSMEs & SMEs Empowerment – BCP for Supply Chain Connectivity**

11. Incorporate COVID-19 spreading scenario on how to strengthen multi-hazard resilience by integrating risk information and capacity building initiatives into emergency preparedness platform.
12. Ensure risk reduction strategies, including risk communication, preparedness and contingency plans consider the risks and cascading impact of “new normal”, multi-hazard and epidemics.

13. Support SMEs/MSMEs to incorporate risk transfer, mitigation and assessment practices into their business continuity planning with capacity building programmes.

**ACTWG**

14. Enhance supply chain resilience for human security

**SCSC**

15. Proactively identify and mitigate impacts via decision support tools to modernize codes, standards, and practices consistent with the risk as well as risk-based disaster mapping for the design of structures in vulnerable area.

**FMP, Resilient Infrastructure and Investment**

16. Commit to resilience in long-term incentive-oriented investment in infrastructure planning and design with synergy.
17. Provide incentives for resilience.
18. Boost insurance and banking sector investment activity across stages of a disaster cycle for mutual benefit.
19. Ensure DRR plans are in place, resourced and engage all relevant government departments at all levels.
20. Expand the use of concessional financial instruments for DRR and CCA investments.
21. Create and promote a range of responsive, long-term, innovative financial instruments and mechanisms for DDR investment, including incentivized insurance and catastrophe bond.
22. Develop policies and approaches to mobilize insurance company resources into DRR investments.
23. Develop ‘build back better’ plans, assign roles and responsibilities and identify contingent financing mechanisms for recovery ahead of any event, so that they can be quickly scaled up to facilitate effective post-event recovery implementation.

## 2.2. HIGHLIGHTS

To promote APEC resilient city and community initiatives, the EPWG event connected to PPSTI ACTS Meeting to facilitate the exchange of cross-fora collaboration, best practices, STI DRR and CCA policies for capacity building.




**APEC economies, cities and community experience similar challenges - natural disasters and weather extremes.**

In 2025 APEC Korea hosting year, this event showcased how to utilise STI i.e. AI for building the capacity and knowledge on demand to formulate smart policies for developing smart solutions through PPP to tackle pressing societal challenges. It contributed the best practices for the resilience on common interests and challenges with following consensus and goals towards Sustainable Development Goals (SDGs) on:

1. **Managing Risk:**
    - Exploring the risks associated with **disasters and weather extremes** that affected lives and economic development for **sustainable economic growth**
    - Strengthening the collection and use **of quality data from innovative technologies** and integration of local, indigenous, and traditional knowledge to achieving a resilient APEC
    - Building **capacity and knowledge** on how to manage the risks

- **Bridging gaps** between academia; local, indigenous, and traditional knowledge; and risk knowledge providers across all of society.

2. **Engaging meaningful collaboration for resilience:**
   - Strengthening engagement across ministries, with local communities, and financial institutions **through PPP**
   - Enhancing disaster preparedness for effective response and to "Build Back Better" for **quicker** recovery, rehabilitation and reconstruction
   - Achieving **end-to-end, people-centered**, and **multi-hazard early warning systems** by learning from past disaster events and utilising **existing centers or partnerships**.
   - Utilising the **smart policies, solutions** and newly emergent technologies as critical enablers in providing scientific evidence and solutions in responding to the risks.
   - Sharing experience through **PPP network for collaboration** among stakeholders in multi-sectors to tackle the challenges.
   - Investing **quality infrastructure** to strengthen the **economic growth and human security**.

Discussions primarily focused on policy-led practical approaches for DRR and CCA, such as leveraging forward-looking STI (i.e. ICT and AI technologies) in policymaking for facilitating PPP and innovative information intelligence mechanisms and framework. Participants from each economy shared their pressing challenges over policy, countermeasures to better prepared for, responded to and recovered from the impact and aftermath for build back better. Experts fostered dialogue discussions on common issues to share their insightful views with practical outputs and outcomes in action as the potential for mutual understanding to engage the cross-fora collective approaches for future collaborations. The Authority in Charge of DRR and CCA from each economy emphasized the importance of sharing best practices across economies in a

timely manner were critical for resilient APEC to take actions. There was also a strong voice among the stakeholders to call upon the cross-fora PPP and to deepen collaborations among APEC economies to promote APEC Resilient City and Community aimed at effective DRR and CCA based on QII for building a sustainable tomorrow.

With fruitful, constructive, practical interactive discussions, the following insightful speeches and findings have been well structured to formulate recommendations for APEC consideration:

## Day 1 – Saturday 2 August 2025

## Opening at 09:00

It provided a brief overview of the work undertaken in APEC to promote the resilience f**rom Challenge to Action** and involved the perspectives, work in progress as well as strategic approach for collaboration among APEC fora. The workshop commenced with opening remarks by Director Young-Soo CHOI, the APEC Disaster and Safety Support Group, Ministry of Interior and Safety, **Korea.**

### 1.1 Welcome Address by host Economy

**Young-Soo CHOI**, Director, the APEC Disaster and Safety Support Group, Ministry of Interior and Safety, **Korea**




Director CHOI extended a warm welcome on this meaningful occasion and expressed appreciation to everyone whose efforts have made this EPWG-EPCC workshop possible. With the active participation of all economies, EPWG and SDMOF meetings, held from July 30 to August 1, concluded successfully.

Regarding the recent major disasters in Korea, a large wildfire on the Eastern side of Korea this April resulted in 32 fatalities and extensive damage to forests and residential areas. In mid-July, five days of record-breaking torrential rain caused major disruptions to transportation and communications infrastructure, leading to significant inconvenience and damage to people's daily lives. Therefore, securing disaster resilience has become more critical than ever to respond to compound disasters driven by climate change. Following the common pressing challenges addressed in APEC, the key focus deliverables of SDMOF urged for collaboration on DRR and CCA. From this perspective, this workshop was both timely and significant. Thus, Chinese Taipei and Korea co-host this event during the 2025 APECRW, as it served as an excellent example of new possibilities for cooperation supported by the meaningful discussions where participants with diverse expertise shared their experiences and knowledge to network on **Resilience-Oriented Disaster Management**.

This workshop provided a venue for participants from diverse backgrounds to share sustainable recovery strategies and innovations in science and technology. Due to climate change, urbanization, and globalization, disasters were occurring with increasing frequency and intensity, making resilience a critical agenda item. A thorough understanding of risk factors and proactive preparedness was the starting point for building resilience. Meanwhile, it was essential to have the capacity to flexibly adjust policies and systems to adapt to the evolving risk environment. As a result, resilience could be completed through the process of swiftly restoring damage after a disaster and rebuilding to a better economy. Last but not the least, he expressed his sincere gratitude to Chinese Taipei for the preparation efforts and to all APEC participants for making this workshop possible.

## 1.2 Opening Address

**George CHIOU**, The Representative of the Taipei Mission in Korea, Ministry of Foreign Affair, **Chinese Taipei**




The Representative CHIOU conveyed his sincere appreciation to the kind hospitality of Korea to co-host the 2025 APEC Resilience Week in Incheon and thanked EPCC for crafting the bold ideas to foster meaningful connectivity in which created impactful deliverables from STI for action and collaboration after the Seattle APEC Resilience Week in the margin of the 1st SDMOF at Ministerial Meeting level under EPWG.

APEC member economies have witnessed the power of natural disasters and weather extremes swept out the region as “the New Normals”. Director CHOI also addressed the pressing challenges and key areas for collaboration. The key theme of this event keenly focused on demand of information, knowledge, newly emerged technology such as AI could support DRR and CCA as well as early warning for better preparedness to explore the future cross-fora collaboration to achieve SDGs for human security agenda under APEC. Take a look of the current situation in Chinese Taipei, it was very rare that 7 typhoons visited Chinese Taipei in July 2025 and brought devastated impacts and aftermath. The intensity and frequency of torrential rains, typhoons, earthquakes and tsunami continued to rise and badly hit the communities/society/economies from recovery. In light of this, Chinese Taipei continued to invest in APEC Resilience City and Community initiative and called upon contributions to share forward looking approaches on resilience to tackle the “new normals”. 2025 APECRW could provide great value under APEC from your insightful sharing to further connect, innovate and prosper

in DRR and CCA. Heartfelt appreciation to Korean colleagues and their active involvement to make 2025 APECRW possible in Incheon.

### 1.3 Recap of the 21st EPWG and 18th SDMOF

**Dayra CARVAJAL**, EPWG Co-Chair, Portfolio Manager for Cross-Sector Partnerships International Affairs Division, Federal Emergency Management Agency (FEMA), **The United States.**




**EPWG Co-Chair CAVAJAL** provided a high-level overview of the outcomes from the pivotal **21st EPWG** and the **18th SDMOF** focused on evaluating the progress of global DRR for **strategic collaboration,** highlighting the importance of integrating PPP efforts to bolster regional resilience through **cross-sectorial partnerships**, and sharing best practices and coordinating emergency management frameworks to deliver **policy-oriented project implementation.**

### 1.4 Cross-fora Remark by host Economy

**Hwanil PARK**, PPSTI Host Vice Chair, Directorate for Global Strategy, **Korea**
Science, Technology and Innovation for Building a Sustainable Tomorrow




**Dr. Hwanil Park** is a senior research fellow in the Directorate for Global Strategy at the Science and Technology Policy Institute (STEPI), Korea from 2016. He mainly focuses on the science, technology and innovation policy for climate change and its risk mitigation. As the Chief Director of the Division of Global Innovation Strategy from 2021 to 2024 at STEPI, he has overseen various scopes of projects focusing on the STI policy for the global challenges with perspectives of economy, region and global level. Dr. Park has been serving as a Vice chair of Policy Partnership on STI (Policy Partnership on Science, Technology and Innovation/PPSTI) at APEC since 2021.

**PPSTI Host Vice Chair Hwanil Park** valued highly the cross-fora collaboration between EPWG and PPSTI on **STI for Building a Sustainable Tomorrow** and emphasized the following key areas for future collaboration:

- **Interdisciplinary Collaboration:** Strengthening the synergy between different working groups and forums to address global challenges.
- **Innovation-Driven Sustainability:** Promoting the role of advanced technology and R&D in achieving long-term environmental and economic goals.
- **Strategic Global Partnerships:** Sharing Korea's strategic vision for leveraging scientific advancements i.e. AI and ICTS to foster inclusive and sustainable growth across the region.

### 1.5 Remark by EPWG Delegation

**Katsuhiko KITA**, Director, International Cooperation Division, Disaster Management, Bureau, Cabinet Office, **Japan**




**Director KITA** is a career government official with experience in the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) and the Cabinet Office. He represents global recognition for his expertise in disaster resilience to advocate:

- **Sharing Best Practices:** Leveraging Japan's extensive experience and "lessons learned" from past natural disasters to enhance regional emergency preparedness.
- **Global Partnership:** Strengthening collaborative frameworks to facilitate mutual aid and technical exchange.
- **Infrastructure and Policy Resilience:** Emphasizing the importance of integrating advanced technology and robust policy frameworks into DRR strategies.
- **Capacity Building:** Promoting collective efforts to build more resilient communities through education, training, and cross-border cooperation.

## 1.6 Remark by EPWG Delegation

**Dave GAWN**, Chief Executive, New Zealand's National Emergency Management Agency, **New Zealand**

Resilient Society, Sustainable Economy




Dave GAWN has been Chief Executive of NEMA since September 2021. The NEMA provides leadership to New Zealand's emergency management system.

He has extensive experience in managing and leading organizations and mitigating risk, including operating in hazardous environments. These include being the Chief Executive of the Pike River Recovery Agency (2018-2021); Head of Mission and Chief of Staff at the United Nations Truce Supervision Organization (UNTSO) based in Israel overseeing peace-keeping operations for the five signatories of the 1949 Armistice Agreement (2016-17); Chief of Army in the New Zealand Defense Force (2013-15); and Commander Joint Forces New Zealand (2011-13). He commenced his distinguished career in the New Zealand Defense Force in 1978.

Representing New Zealand's leadership in disaster risk reduction, Chief Executive Dave GAWN emphasizes the following core concepts with his global exposures on DRR and CCA:

- **The Resilience-Economy Nexus:** Exploring how a society's ability to prepare for and recover from disasters is fundamentally linked to long-term economic stability and sustainability.
- **Key Preparedness Strategies:** Sharing insights from New Zealand's approach to emergency management, highlighting the integration of community-based resilience with policy for implementation.
- **Sustainable Growth through Risk Mitigation:** Highlighting how proactive investment in emergency preparedness protected infrastructure and ensured the continuity of economic activities in the face of environmental challenges.
- **Collaborative Governance:** Strengthening the role of the **Emergency Preparedness Working Group (EPWG)** in fostering global partnerships to build a more secure and sustainable regional future for promoting local knowledge and indigenous know-how.

### 1.7 Cross-fora Message from SMEWG

**Aaron SYDOR**, Vice Chair of SMEWG, Director of Trade and Economic Analysis, Foreign Affairs and International Trade **Canada**

Emergency Preparedness for Resilient Business



Aaron SYDOR is the Director of Trade and Economic Analysis at Global Affairs Canada. Aaron has over 20 years of experience in leading economic research and providing policy advice relating to global trade, trade agreements, supply chains, the globalization of SMEs and policy evaluation. Aaron has authored numerous economic studies and edited two research volumes. He was the recipient of the numerous awards including the Queen's Golden Jubilee Medal and in 2013/14 was Canada Fulbright Scholar at Duke University. Aaron also currently serves as vice-chair of the SME working group at APEC.

SMEWG Vice Chair Aaron SYDOR addressed the critical intersection of disaster management and economic stability, specifically for the SME sector to call upon collaboration on the following key areas:

- **Business Continuity Planning:** Highlighting the importance of SMEs developing robust strategies to maintain operations during and after emergencies.
- **Economic Impact Analysis:** Leveraging his expertise in trade and economic analysis to discuss how disaster preparedness can mitigate long-term financial losses and protect global supply chains.
- **Supporting Small Businesses:** Exploring the role of government policy and global cooperation in providing SMEs with the tools and resources needed to build organizational resilience.
- **Global Trade Resilience:** Discussing how Canadian perspectives and SMEWG initiatives contributed to a more stable and disaster-ready global trade environment.

## **DRR High Level Policy Dialogue** at 09:45



**Team up for Resilience Through Public Private Partnership – Challenge and Strategy**

**Moderator: Yanling LEE**, Secretary General, APEC Emergency Preparedness Capacity Building Center (EPCC), **Chinese Taipei**

**DRR1.1 Plenary Speaker: Japan**

**Katsuhiko KITA**, Director, Disaster Management Bureau, Cabinet Office, Government of Japan

Recovery and reconstruction following the Great East Japan Earthquake (2011) and the Noto Peninsula Earthquake (2024)




Director KITA mentioned that DRR was one of the top priorities for Cabinet Office and the Japanese government and Japan were going to establish a new agency for disaster management in 2026 for strengthening disaster management capabilities by integrating the commanding bridges of the domestic disaster prevention sector within a newly established agency. This organizational reform was designed to enhance efficiency responses over the frequent extreme events and disasters in a greater and larger impacts as well as aftermath for recovery. Meanwhile, it also fostered the development of specialized human resources in terms of synergies on information, experience and knowledge sharing. The details of these institutional changes were of significant interest to the participants for calling the future collaboration under APEC at regional level.

Drawing on Japan's extensive experience with high-magnitude seismic events, he addressed on the following key strategic view for APEC attention:

- **Evolution of Reconstruction Strategies:** Comparing the recovery frameworks used after the **2011 Great East Japan Earthquake** with the updated approaches implemented for the **2024 Noto Peninsula Earthquake**.
- **Infrastructure Resilience:** Analyzing the long-term effectiveness of engineering and urban planning measures in mitigating damage and facilitating faster reconstruction.
- **Policy and Governance:** Sharing insights into how Japan’s Cabinet Office coordinated economic-level disaster response and the legal frameworks that supported large-scale recovery efforts.

- **Socio-Economic Recovery:** Discussing the "Build Back Better" philosophy, focusing on restoring local economies, community structures, and the well-being of affected residents across different timelines.

**DRR1.2 Plenary Speaker: New Zealand**

**Dave GAWN**, Chief Executive, New Zealand's National Emergency Management Agency

Building Livelihoods - Supporting Public & Private Sector



To highlight the 2021 the Aotearoa Plan of Action (APA), APEC called upon its member economies to formulate a serious of collective actions and policies that supported global efforts to address environmental challenges including climate change, extreme weather, and natural disasters for week economic activity, vulnerable communities and indigenous. Furthermore, Chief Executive GAWN explored the collaboration on the integrated approach required to recover economy and social stability if a disaster strike as follows:

- **Inclusive Recovery:** Moving beyond physical reconstruction to focus on the restoration of livelihoods, ensuring that individuals and communities could regain financial independence and stability.
- **Public-Private Synergy:** Exploring how NEMA coordinated with both government agencies and private enterprises to create a seamless support network for disaster-affected businesses and workers.
- **Economic Resilience Strategies:** Highlighting New Zealand's frameworks for providing targeted support to various sectors to mitigate economic disruption for a quick recovery for inclusivity.
- **Long-term Sustainability:** Discussing how the recovery process could be used to build more resilient economic structures that were better prepared for future environmental and systemic shocks.

**DRR1.3 Plenary Speaker: Indonesia**

**Ramatun Anggraini KIEMAS**, Deputy Secretary for Development Policy, National Research and Innovation Agency (BRIN)

The Action Plan on Gender and Climate Change in Indonesia




Dr. RAMATUNR works at BRIN in Indonesia. She is a Secretary Deputy for Development Policy at BRIN responsible for designing collaboration strategies and managing partnerships with external partners.

She addressed the core value of the Indonesia Action Plan on Gender for DRR. Indonesia is one of the developing economies that has signed the Paris Agreement. Climate change in Indonesia had impacts to environment ecosystem and risk of natural disaster, such as flood, erosion, landslide, rising air temperature, extreme weather, etc. This climate change could affect not only to physical environment, but also affected human, especially to woman, children and vulnerable group. The key policy recommendation suggested to the Indonesia government in terms of gender and climate change was as follows:

- Increase productivity in food and agriculture sectors
- Access for water, irrigation and farming Infrastructures
- Accelerate new renewable energy and implementation industry for environmentally friendly
- Support and facilitate government programmes in all sectors
- Deregulation of licensing especially for industries
- Empowering human resources in industry

- Empower community to contribute to climate change or climate resilience programs.
- Establish village of food & climate change resilience
- Empower people through capacity building in all sectors

**Q&A Wrap up**

**Moderator: Yanling LEE**, Secretary General, APEC Emergency Preparedness Capacity Building Center (EPCC), **Chinese Taipei**

Dr. LEE highlighted the critical role of Public-Private Partnerships (PPP) in strengthening regional disaster resilience on the following key areas to wrap up the sharing and discussion:

- **Collaborative Frameworks:** Evaluating how APEC economies could collaborate and move beyond boundaries to co-create STI for DRR information sharing practice for facilitating disaster response and recovery strategies in the real time or near real time manner.
- **Identifying Challenges:** Addressing common obstacles in PPPs for bridging the gaps for connecting the logistics for efficient and effective resource allocation during a disaster.
- **Strategic Capacity Building:** Leveraging the EPCC's expertise to build capacity that empowered both public and private entities to act on the same page for synergy.
- **Economic and Social Impact:** Discussing how to integrate future resilience strategies with quality critical infrastructure in support of the overall stability of the regional economy and local communities.

## Panel 1 **Managing the Risk** at 11:10



**Evidence-based STI Support for Information and Knowledge Sharing**

- Exploring the risk associated with disasters and Weather extremes that affected lives and economic development for sustainable growth
- Strengthening the collection of quality data via emergent technology such as AI and innovative technologies for coordinated and proactive

countermeasures adaptation for effective and efficient emergency preparedness at central, local, untapped community, indigenous, and traditional knowledge; and risk knowledge providers across all the society for networking.

- Sharing experience through public private partnership network for collaboration among stakeholders in multi-sectors to tackle the challenges.

**Moderator: Hwanil PARK**, PPSTI Host Vice Chair, Directorate for Global Strategy, **Korea**

**P1.1 Plenary Speaker: Japan**

**Akio SASAHARA**, Executive Director, Asian Disaster Reduction Center (ADRC)

Rethinking ICT & DRR beyond Japan



Mr. Akio SASAHARA has been working from July 2022 to date as Executive Director of the Asian Disaster Reduction Centre (ADRC), managing disaster management projects, planning training programmes and overseeing the conferences in Asia. From May 2000 to June 2022, he was an Assistant Director and later a Director of the MLIT and the Cabinet Office, where he was involved in the formulation of Japan land policy and land management policy.

He highlighted that Japan has long utilized technology for Disaster Risk Reduction (DRR), even before the term “ICT” came into widespread use. Today, with Wi-Fi and smartphones available across much of the world, ICT tools could be deployed more effectively and equitably. Resilient strategies must build on existing resources, while remaining simple and accessible to all communities. Enduring digital assets—especially maps—played a central role in localization. Importantly, ICT should reinforce, not replace, community-led initiatives.

Collaboration with public institutions enabled scale, sustainability, and policy integration. By blending digital innovation with local action, we could rethink ICT and DRR approaches in a global context.

**P1.2 Plenary Speaker: Viet Nam**

**Xuan Dien LUONG**, Assoc. Prof, Vice Director, Center for Student Innovation and Entrepreneurship; Senior Lecturer, Hanoi University of Science and Technology (HUST).

What Viet Nam can Learn from APEC Economies - Leveraging Digital Technologies and Governance Models to Improve Disaster Forecasting and Urban Resilience



Assoc. Prof. Luong Xuan Dien is a senior expert in green technology, nanomaterials, and climate resilience. He leads multiple interdisciplinary projects integrating digital platforms, AI, and community innovation for disaster preparedness and urban resilience in Viet Nam. With extensive collaboration across APEC and ASEAN, he advocated for university-led innovation, smart governance, and knowledge-sharing in resilience building. He also played a key role in fostering student-led solutions for disaster mitigation and sustainable urban development.

He highlighted Viet Nam's current challenges in disaster resilience and outlined strategic lessons from APEC economies such as Japan; Korea; and the US. Key recommendations included adopting integrated disaster data systems, applying AI and digital twin models, and empowering communities via mobile platforms. A roadmap for action was proposed to build pilot smart-resilient cities in Ha Noi or Ho Chi Minh City, fostered university-led innovation, and strengthened APEC cooperation in forecasting and disaster management technology.

**Assoc. Prof. Xuan Dien Luong** illustrated how Viet Nam could adopt best practices from across the APEC region to modernize its disaster management systems. Key discussion points likely included:

- **Regional Knowledge Transfer:** Identifying successful DRR strategies from other APEC economies and adapting them to Viet Nam's specific geographic and socio-economic context.
- **Digital Transformation in Forecasting:** Leveraging advanced technologies—such as big data, remote sensing, and AI—to enhance the accuracy and lead time of natural disaster warnings.
- **Governance and Policy Frameworks:** Evaluating effective governance models that streamlined communication between central authorities and local communities during crisis events.
- **Building Urban Resilience:** Strategizing on how to protect densely populated urban centers through smarter infrastructure and technology-driven emergency response protocols.

**P1.3 Plenary Speaker: Japan**

**Kenji WATANABE**, Professor of Graduate School of Social Engineering Head of Disaster and Safety Management, Nagoya Institute of Technology.

Build Interoperability and Enhance Resilience of Critical Infrastructures through Cascading Events Simulation for Disaster-sensitive Metropolitan Areas.




Kenji Watanabe is a professor at the Graduate School of Engineering, and also the head of Disaster & Safety Management Division of the Nagoya Institute of Technology in Nagoya, Japan.

Based on his 20 years business and professional experiences in structured finance, risk management, system & operation design at the Mizuho Bank, PricewaterhouseCoopers, and IBM Business Consulting Services, he is recognized as a SME (Subject Matter Expert) in operational risk management, business continuity management (BCM), and critical infrastructure protection (CIP).

In those professional fields, he had been assigned as a chair of several governmental committees in Japan at the Cabinet Secretariat, the Ministry of Economy, Trade and Industry (METI), Ministry of Agriculture, Forestry and Fisheries (MAFF), Small and Medium Enterprise Agency, several local governments, and industry associations. He was the principal investigator of the 5-year project “Regional Resilience Enhancement through Establishment of Area-BCM at Industry Complexes in Thailand” to enhance regional resilience through visualization of disaster risks with industry, government and academia collaboration. Joining the industrial complex-based area BCM project in Kumamoto where TSMC would build a new semiconductor factory.

He also provided professional advisory in risk management and disaster management to major corporations in automotive manufacturing industry and energy (electricity & gas) industry. Working with the Corporate Security Division of Nissan and Toyota on a contract basis.

He had also been an expert in the ISO/TC292 (Security & resilience) for the last 15 years and mainly contributed to developing ISO22398 (Societal security – Guidelines for exercises) and ISO22397 (Societal security – Guidelines for establishing partnering arrangements) as the responsible WG Convenor.

Prof. **Kenji Watanabe** addressed the complex challenges of urban disaster management in practices with the key areas of focus as follows:

- **Cascading Failure Analysis:** Utilizing advanced simulations to understand how the failure of one critical system (e.g., power or transport) could trigger a "domino effect" across other interconnected infrastructures.
- **System Interoperability:** Emphasizing the need for diverse infrastructure sectors to maintain seamless communication and functional compatibility during and after a disaster.
- **Urban Resilience:** Tailoring disaster mitigation strategies to high-density, disaster-sensitive urban environments where infrastructure interdependencies were most acute.
- **Social Engineering Perspectives:** Applying social engineering frameworks to design more robust disaster management systems for drills and exercises that prioritize the continuity of essential services for mega cities.

**Wrap up**

Moderator: Hwanil PARK, PPSTI Host Vice Chair, Directorate for Global Strategy, Korea

**PPSTI Host Vice Chair Hwanil Park** wrapped up the session to leveraging synergy for enhanced regional disaster preparedness through data sharing on the following strategic pillars:

- **Risk Assessment and Sustainable Growth:** Exploring the intricate links between disaster risks, extreme weather events, and their impact on human life and long-term economic development.

- **Technological Integration and AI:** Strengthening the collection and application of high-quality data through emergent technologies, such as AI and ICTs. This initiative aimed to create proactive, efficient proactive emergency countermeasures that bridged central and local governments with untapped community and indigenous knowledge.
- **Knowledge-Sharing Networks:** Utilizing PPP frameworks to facilitate multi-sectorial collaboration. By sharing experiences and technical expertise, stakeholders could better tackle the complex challenges posed by modern environmental crises.
- **Cyber-Physical Security for Critical Infrastructure:** Exploring the adoption of dynamic cyber-physical security approaches to strengthen the protection of vital infrastructure against multifaceted threats.
- **Enhancing Smart Decision-Support Systems:** Discussing how to improve the efficacy of smart solutions to assist public and private sector leaders in making high-quality decisions regarding disaster mitigation and adaptation.

## Panel 2 **Best and Good Practices Sharing** at 13:30

**Engaging Meaningful Collaboration for Resilience for Business Continuity and Supply Chain Connectivity**

- Strengthening engagement across ministries, with local communities, and financial institutions through public private partnership
- Enhancing disaster preparedness for effective response and to “Build Back Better” for quicker recovery, rehabilitation and reconstruction
- Achieving end-to-end, people-centered, and multi-hazard early warning systems by learning from past disaster events and utilising existing partnerships.

- Utilising the smart policies, solutions and newly emergent technologies as critical enablers in providing scientific evidence and solutions in responding to the risks.
- Sharing experience through public private partnership network for collaboration among stakeholders in multi-sectors to tackle challenges.

**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

**P2.1 Plenary Speaker: Japan**

**Miki KODAMA**, Director, Research Department, Asian Disaster Reduction Center

Engaging the Private Sector for a Balanced DRR Approach - The Case of Convenience Stores



Ms. KODAMA Miki is the Director of the Research Department at the Asian Disaster Reduction Center (ADRC), based in Kobe, Japan. After completing her master's degree at the Graduate School of International Cooperation Studies (GSICS), Kobe University, she had been actively involved in disaster risk reduction (DRR) efforts across Asia since 2000.

She had contributed to raising DRR awareness and strengthening the capacities of stakeholders and communities in economies such as Indonesia; the Philippines; Mongolia; Nepal; and Sri Lanka, through her participation in DRR projects implemented by the Japan International Cooperation Agency (JICA).

In recent years, she has also been engaged in capacity-building programs and community-based disaster risk management (CBDRM) projects in the ASEAN region. Furthermore, she has actively contributed to organizing conferences, workshops, and seminars to promote DRR activities in line with global frameworks such as the Sendai Framework for Disaster Risk Reduction.

Director Miki KODAMA illustrated how Japan had learned valuable lessons from past disasters such as the 1995 Great Hanshin-Awaji Earthquake and the 2011 Great East Japan Earthquake. These experiences highlighted the importance of a balanced DRR approach and enhanced collaboration with the private sector. Convenience stores, one of the private sectors, due to their widespread presence and essential services, had been designated as “Designated Public Corporations” since 2017. They now played a key role in emergency response, including distributing supplies and supporting stranded commuters. Their integration into Japan’s disaster management system had strengthened local resilience, ensuring better coordination, faster recovery, and more effective use of limited community resources.

**P2.2 Plenary Speaker: Chinese Taipei**

**Yanling Lee** (Sophia) Secretary General, APEC EPCC

APEC Resilience Conference for Business Continuity Planning and Supply Chain Connectivity



Dr. Yanling Lee (Sophia) addressed the critical intersection of disaster preparedness and economic stability within the APEC region on the primary objectives including:

- **BCP:** Developing and sharing robust frameworks to help enterprises, particularly SMEs, maintained essential operations and quick recovery from natural disasters and weather extremes.
- **SCC:** Addressing the vulnerabilities of regional trade networks and exploring collaborative strategies to ensure the seamless flow of goods and services to mitigate the impact and aftermath.
- **Capacity Building:** Leveraging EPCC expertise to provide training program, smart solutions or tools, technical support and STI knowledge on

demand for APEC economy to formulate their resilience policy for implementation.

- **Regional Economic Stability:** Strengthening the collective PPP capacity among member economies to better protect the critical infrastructure and mitigate the long-term financial impacts of catastrophic events.

**P2.3 Plenary Speaker: Canada**

**Cross-fora Message from SMEWG**

**Aaron SYDOR**, Vice Chair of SMEWG, Director of Trade and Economic Analysis, Foreign Affairs and International Trade Canada

Emergency Preparedness for Resilient Business



A discussion focused on SMEWG Vice Chair **Aaron Sydor** to explore cross-fora collaboration approaches for facilitating resilience of the SMEs' operation stability and supply chain connectivity through robust disaster response mechanisms to reaffirm the APEC commitment including:

- **BCP:** Examining how SMEs could develop and execute effective continuity plans to mitigate the impact of various emergency events.
- **Strategic Cross-fora Collaboration:** Analyzing how SMEWG interacted and shared information with other APEC working groups to foster a policy environment conducive to business resilience.
- **Trade and Economic Impact Analysis:** Leveraging the capacity of expertise to discuss potential threats to SME in global value chain and providing data-driven mitigation strategies.
- **Strengthening PPP:** Discussing how governments and institutional entities could provide the necessary resources and technical support to help the private sector build-back better and stronger through quick recovery frameworks and risk-resistance architectures.

**Wrap up**

**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

Dr. Yanling Lee (Sophia) examined the intersection of public-private cooperation and economic stability for APEC to discuss for networking on facilitating global supply chains connectivity and ensured resilient business through several key strategic focus:

- **Multi-Sectorial Engagement:** Strengthening the bond between government ministries, local communities, and financial institutions through robust **Public PPP**.
- **The "Build Back Better" Framework:** Enhancing disaster preparedness to ensure that recovery, rehabilitation, and reconstruction efforts were not only faster but more resilient than before.
- **People-Centered Early Warning Systems:** Implementing end-to-end, multi-hazard warning systems that utilize existing partnerships and historical data to prioritize human safety.
- **Technology as a Critical Enabler:** Leveraging emergent technologies and smart policy solutions to provide the scientific evidence-based information platform for effective risk response.
- **Collaborative Knowledge Networks:** Sharing global experiences through specialized PPP networks to facilitate multi-sector collaboration and tackle complex challenges and uncertainties in the marketplace.
- **Inclusive Preparedness:** Emphasizing the importance of integrating local and community-based knowledge into broader societal risk management networks.

## Panel 3 **Best and Good Practices Sharing** at 15:00

**Exploring Smart Policies or Solutions for APEC Resilient City and Community (ARC) to Resolve the Societal Challenges**

- How could we plan to manage the excessive concentration of flows of people, goods & services, money, and information in greater metropolitan areas?
- What was the role of policy makers in disaster for planning of an APEC resilience city or community?
- How to adopt dynamic cyber-physical security approach in critical infrastructure protections
- How to enhance smart solutions to facility the quality decision-making of commanders and leaders in mitigation and adaptation in the public and private sector?
- APEC Member Economies' Report
- Cross-fora Engagements

**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

**P3.1 Plenary Speaker: Japan**

**Mitsuhiro YAO**, Counsellor for Global Strategies, Ministry of Land, Infrastructure, Transport and Tourism (MLIT)

Overview - APEC Tokyo Conference on Quality Infrastructure Investments to address environmental challenges of the cities in APEC region (CTI 101 2024T), 17-18 June 2025, Tokyo Japan




Counsellor YAO addressed on how Japan promoted and introduced the remarkable contribution of APEC initiative on QII which was endorsed under the title “Quality Infrastructure Investments to address environmental challenges of the cities in APEC region” and hosted by MLIT on 17-18 June 2025, in Tokyo, Japan. This conference aimed to foster in-depth discussions on QII for climate resilience in APEC cities, an essential challenge faced by APEC economies, while advancing capacity-building efforts for infrastructure and policy planning officials. Following the conference, a post-conference questionnaire was circulated for feedback and a summary report comprising good practices regarding Quality Infrastructure policies and initiatives shared by participating economies received greater echoes for collaborations. It contributed to the promotion of climate resilient cities with adaptation and mitigation measures in APEC region for future capacity building and provided valuable networking for infrastructure planners and policymakers to share the best practices for synergy.

Emphasized the importance of quality infrastructure investment to enhance physical connectivity throughout the APEC region. **Counsellor Mitsuhiro Yao**

further highlighted Japan's extensive experience with natural disasters and its ongoing contributions to DRR and CCA through high-quality infrastructure. He provided a strategic overview of the **APEC Tokyo Conference on Quality Infrastructure Investments (CTI 101 2024T)**, held on 17-18 June 2025, in Tokyo on leveraging infrastructure to solve pressing urban issues within the APEC region:

- **Environmental Resilience:** Exploring how "Quality Infrastructure Investments" could be strategically used to address the specific environmental challenges faced by rapidly growing cities in the APEC region.
- **Quality Standards in Infrastructure:** Emphasizing the importance of sustainability, durability, and efficiency in urban planning and development projects.
- **Regional Collaboration:** Sharing outcomes and best practices from the Tokyo conference to foster deeper cooperation between member economies in managing urban growth.
- **Strategic Implementation:** Reviewing the progress of the CTI 101 2024T project and its role in promoting long-term economic and environmental stability across the region.

**P3.2 Plenary Speaker: Chile**

**Natalia COFRÉ**, Climate Change Adaptation Specialist, SENAPRED

Disaster Risk Reduction and Climate Change Adaptation - Progress for Integration from the Legal Framework and Instruments in Chile



Head Natalia Cofré introduced Chile's strategic shift toward an integrated governance model to bring in disaster management and climate action as inseparable priorities. Key points include:

- **Regulatory Frameworks in Disaster Risk Management and Climate Change in Chile:** General review of the regulatory frameworks governing both management areas in Chile in light of international agendas 2030.
- **Integration of Disaster Risk Management and Climate Change:** Progress in Chile in the incorporation of climate change management instruments and Disaster Risk Management instruments.
- **Challenges for Disaster Risk Reduction with a Focus on Climate Change Adaptation in Chile:** Gaps and opportunities for effective integration toward Disaster Risk Reduction and Climate Change Adaptation in Chile.

**Wrap up**

**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

Dr. Yanling Lee (Sophia) highlighted the consensus and takeaways built by leveraging intelligent policies and STI adaptation to tackle the complex challenges facing pressing environmental challenges and communities impacts within the APEC on key areas for constructing forward-looking urban development strategies that were secure, adaptive, and capable of navigating the future uncertainties of the APEC region:

- **Managing Flows:** Researching strategies to plan and manage the high concentration of people, goods, services, capital, and information in major areas to ensure social stability.
- **The Role of Policy Makers:** Identifying the essential responsibilities and functions of decision-makers in planning and driving the transformation toward resilient cities and communities.
- **Regional Insights and Cross-Sector Collaboration:** Incorporating reports from APEC Member Economies for engaging cross-fora dialogue for seeking institutional support solutions under APEC for the upcoming pressing challenges.

## Day 2 – Sunday 3 August 2025

**Recap of Day 1** **EPCC, Chinese Taipei** at 09:00

**Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

## CCA Policy Dialogue
## Capacity Building for Sustainable Tomorrow at 09:15

**Investing quality infrastructure to strengthen the economic growth and human security**

- How can we measure the impact of disaster on environment, livelihood and cultural heritage?
- What elements shall be taken into account for formulating green and circular economy policy and strategy for disaster resilience
- APEC Member Economies' Report
- Cross-fora Engagements

**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

**Plenary Speaker: Japan**

**CCA1.1 Yuki YANADA**, Director in Charge, Cabinet Office

Establishment of "Disaster Management Agency of Japan" (2026)




**Mr. YANADA Yuki**
**Director in Charge**
**International Cooperation**
**Disaster Management Bureau**

**Cabinet Office**

Mr. Yanada is a career government official with experience in the Ministry of Land, Infrastructure, Transport and Tourism (MLIT), the Japan Fair Trade Commission, and the Cabinet Office. He earned a master's degree in public policy at the University of Chicago Harris School of Public Policy in the U.S. in 2023. He graduated from the University of Tokyo in 2013.

Director in Charge YANADA presented a historic milestone in Japan's administrative approach towards safety: the official establishment of a dedicated **Disaster Management Agency** in 2026. The strategic restructuring of Japan's disaster governance, highlighting the following:

- **Centralization of Authority:** Transitioning from the previous Cabinet Office coordination model to a centralized, specialized agency designed to provide single command and control during large-scale emergencies.
- **Operational Efficiency:** Streamlining the decision-making process between local, prefectural, and governments to ensure more rapid deployment of resources and personnel.
- **A "Build Back Better" Mandate:** Integrating long-term recovery planning and CCA directly into the agency's core mission, rather than treating them as secondary responses.
- **Regional Leadership:** Discussing how this new institutional model could serve as a blueprint for other APEC economies looking to modernize their own disaster management frameworks.
- **Technological Integration:** Leveraging Japan's latest innovations in AI-driven forecasting and real-time data sharing to be managed under this new singular authority.

**CCA1.2 Plenary Speaker: Malaysia**

**VIKNESWAREN JEYASIVAM**, Town & Country Planning Officer, Department of Town & Country Planning (PLAN Malaysia)

Urban Planning and Development

## Strengthening Disaster Risk Reduction through Strategic Planning and Community Resilience in Malaysia




**VIKNESWAREN JEYASIVAM** illustrated the development of Malaysia in DRR and CCA. Malaysia was increasingly exposed to various disaster risks including floods, coastal erosion, tsunamis, extreme weather, and land-use related hazards exacerbated by climate change and rapid urban development. In alignment with the **Sendai Framework for Disaster Risk Reduction (2025–2030)**, the Malaysian government was committed to four strategic actions: enhancing risk awareness, strengthening governance, investing in resilience, and improving preparedness. Three global challenges were addressed as follows:

- **Adapting to the Impacts of Climate Change** – Sea-level rise, extreme rainfall, and environmental degradation increased the risk and intensity of disasters, threatening socio-economic sectors and public safety.
- **Ensuring Disaster-Resilient Human Settlements** – Growing populations and economic activities in disaster-prone areas, particularly coastal and low-lying zones, demanded sustainable, risk-sensitive planning.

- **Controlling Environmentally Risky Developments** – Activities such as land reclamation, deforestation, and unregulated development increased exposure and vulnerability, requiring tighter regulatory oversight.

Urban and regional planning was a crucial tool in disaster risk reduction, enabled by the **Town and Country Planning Act 1976 (Act 172)**. This legal framework supported the preparation of development plans, zoning, and land-use control to guide sustainable growth and protect vulnerable areas. Non-structural measures—including policies, early warning systems, disaster education, and environmental conservation—complemented structural interventions to reduce disaster impacts. Key forward strategies included:

- **Mainstreaming the Coastal Zone Physical Plan (RFZPPN-2)** and vulnerability indices into local planning frameworks.
- **Promoting community-based disaster risk management (CBDRM)** to enhance local preparedness and resilience.

**CCA 1.3 Plenary Speaker: Indonesia**

**Ratih DAMAYANTI**, Director of Environment, Maritime, Natural Resources and Nuclear Policy, National Research and Innovation Agency (BRIN)

Wooden Houses for Disaster Resilient and Sustainable Environment - How the Humble Tree can become the foundation for a more Resilient Future




Ratih is the Director of Environment, Maritime, Natural Resources, and Nuclear Policy at BRIN, Indonesia. Previously (2023-2025), she was the Director of Scientific Collection Management at BRIN, who was responsible for managing scientific depository including herbarium, animal, seed bank, archaeological, geodiversity, microorganisms, and botanical gardens. She was a member of IAWA Council (2021-2023) based in Leiden, Netherlands.

Director Ratih Damayanti introduced **Wooden Houses for Disaster Resilient and Sustainable Environment.** In a time of escalating severe weather occurrences and a shifting environment, the necessity for robust architectural design had become paramount. The United Nations Office for Disaster Risk Reduction claimed that natural disasters have resulted in an astonishing USD2.9 trillion in worldwide economic losses over the previous twenty years, impacting the lives of more than 4 billion individuals. The situation was anticipated to deteriorate further as the impacts of the climate crisis, environmental neglect, and unregulated urban development escalated. Buildings provided a squandered chance for enduring carbon sequestration, as they were intended for occupancy over extended periods. Humans have utilised wood as a construction material for housing for more than 10,000 years. Predominant construction materials, including steel and concrete, sequester negligible amounts of carbon. Furthermore, the contemporary global construction industry's demand for

building materials would persist as a significant contributor to greenhouse gas (GHG) emissions.

Wood products served as a physical repository for carbon that was formerly present in the environment as a greenhouse gas. Substantial climate advantages might be attained in the short to medium term by augmenting the overall carbon stock in wood products, utilising a greater quantity of wood products, or employing wood goods with extended longevity. Wood products utilised in building could function as a carbon sink. According to Ministry of Public Works and Public Housing, Indonesia, the number of houses needed in Indonesia is 7.6 million units with the annual demand rate of 800 thousand units. If each standard house required 4.85 $m^3$ of wood (roof trusses, frames and doors), 36.86 million $m^3$ of processed wood would be used. If this volume of wood was converted to carbon at a 50 percent conversion factor, Indonesia could store 18.43 million $m^3$ of carbon in housing. Study by Malik et. al 2022 “Study on wood in houses as carbon storage to support climate stabilisation: study in four residences around Jakarta Municipal City” resulted timber used for door frames, door leaves, window frames, shutters, and vents components with the average carbon stored of 500 kg, hence totally, wooden houses had the potential to store 0.44 million tons. Indonesia, as one of the world’s major wood producers, could play a significant role in promoting the use of renewable and environmentally friendly building materials for carbon storage.

Timber constructions were capable of enduring seismic activity, wind impacts, and fire. Following a disastrous occurrence, wood served as a versatile and resilient building material, appropriate for the rehabilitation and reconstruction of structures. The emergence of cross-laminated timber (CLT) and Light Wood Frame (LWF) represent a significant advancement in robust timber design. These technologies provided not just rapid construction but also considerable advantages regarding sustainability and diminished environmental effect.

Science might contribute to formulate green and circular economy policy and strategy for disaster resilience by developing the future of resilient timber design

through developing climate-responsive design; advancement of smart materials; merging building with digital technologies; integrating renewable energy sources; and utilising nature-based solutions such as green roofs and rain gardens to alleviate the effects of natural calamities and enhanced the overall resilience of timber structures. She highlighted the key to succeed the project:

- **Collaborating with academic institutions** such as Universiti Malaysia Terengganu (UMT) for research and capacity-building.
- **Developing special action plans** for high-risk areas, like the upcoming Disaster Risk Reduction Action Plan for villages in Kuala Nerus, Terengganu, Malaysia's holistic approach integrated legal, technical, environmental, and community-based strategies to strengthen resilience and reduced the impacts of all types of disasters across the economy.

**Wrap up**

**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

Dr. Yanling Lee (Sophia) consolidated the discussion on the strategic role of APEC in safeguarding communities and driving sustainable development through the sharing of the speakers with key areas for consideration:

- **Multidimensional Impact Measurement:** Exploring advanced methodologies to quantify the impact of disasters not only on physical assets but also on the **environment, community livelihoods, and cultural heritage**.
- **Green and Circular Economy Integration:** Identifying the essential elements required to align disaster resilience strategies with green and circular economy policies, ensuring that reconstruction and growth were environmentally sustainable.

- **APEC Member Economies' Report:** Reviewing regional progress, success stories, and challenges shared by various APEC member economies regarding their infrastructure investment frameworks.
- **Cross-fora Engagements:** Strengthening the synergy between different APEC working groups and external stakeholders to foster a holistic approach to human security and economic stability.

## Panel 4 **Best and Good Practices Sharing** at 10:45

**Public Private Partnership Cross Borders**

- Partnership for "Build Back Better" for quicker recovery, rehabilitation and reconstruction
- Information sharing through innovative research, science and technology for early warning through existing partnerships.
- APEC Member Economies' Report
- Cross-fora Engagements

**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

**P4.1 Plenary Speaker: Korea**

**Gaeun KIM**, Researcher, APEC Climate Center

A Pipeline from Testbed to Verification: Toward Operationalization and Systematic Validation of Climate Models




**Gaeun Kim** is a researcher at the APEC Climate Center, specializing in climate variability and seasonal prediction. Her work focuses on high-latitude influences on East Asian winter climate, including ENSO-AO interactions, Arctic warming, and the development of real-time forecast verification systems.

Dr. Gaeun Kim shared the findings and progress of her research in APCC. In the development of seasonal climate prediction models, a critical challenge lies in effectively connecting scientific innovations with real-world operational use. She presented a structured pipeline that functions as two essential bridges within this process. The first bridge was the **testbed**, which enabled pre-operational experiments to assess the scientific effectiveness and operational feasibility of research-based advancements. This included evaluating runtime efficiency, error characteristics, and model stability in realistic forecast scenarios. The second bridge is **CrEMA (Climate forecast model Evaluation and Management system)**, which ensured consistent and objective verification of model performance across deterministic, probabilistic, and categorical forecasts. It supported systematic diagnosis through standardized metrics, process-based evaluation, and historical skill monitoring. Together, these two bridges linked the model development phase to real-time application, enabling a transparent and reproducible transition from innovation to practice. This integrated approach

enhanced the trust, usability, and accountability of seasonal forecasts for operational decision-making.

**P4.2 Plenary Speaker: Peru**

**Astrid Hassel Criales JOHNSON**, Innovation Project Specialist, National Council for Science, Technology and Innovation (CONCYTEC)

Vincúlate Platform: Building Resilience through Public STI Policy Instruments



**Astrid Hassel Criales Johnson,** Specialist in technological innovation projects at CONCYTEC. With a background in architecture and a master's degree in STI policy and management, she is also a doctoral graduate in Environmental Sciences. Her experience bridges research, public policy, and innovation, with a focus on designing instruments for technology transfer and capacity building. She has coordinated global cooperation projects, including APEC initiatives, and supported training programs on technology maturity, licensing, and innovation management. She is also a university lecturer and co-founder of a sustainable mobility startup awarded for its eco-innovation approach.

**Astrid Hassel Criales Johnson** highlighted the **Vincúlate Platform** as a key strategic tool for strengthening disaster resilience to address the key elements as follows:

- **Bridging the Gap:** Utilizing the Vincúlate Platform to connect the scientific community, the public sector, and private enterprises, fostering collaborative innovation to address complex environmental and social risks.
- **STI Policy as a Resilience Driver:** Exploring how STI policy instruments could be designed to incentivize proactive risk reduction rather than just reactive response.

- **Data-Driven Decision Making:** Discussing how the platform facilitated the exchange of specialized knowledge and technological solutions to inform more effective public policies for disaster management.
- **Institutional Strengthening:** Highlighting CONCYTEC's role in creating an ecosystem where innovation was a core pillar of Peru's resilience strategy and its alignment with broader APEC goals.

**Wrap up**

Moderator: **Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

Dr. Yanling Lee (Sophia) highlighted the role of **Global PPP** for strengthening disaster resilience across the APEC region with key strategic areas summarized for consideration as follows:

- **The "Build Back Better" Framework:** Strengthening partnerships to ensure effective data sharing on quicker recovery, rehabilitation, and reconstruction of disasters and weather events through resilient infrastructure.
- **Technological and Scientific Information Sharing:** Leveraging existing partnerships to facilitate the exchange of innovative research, science, and technology for more effective **Early Warning Systems**.
- **APEC Member Economies' Report:** Providing a platform for member economies to network on local knowledge, STI for DRR progress and successful case studies of cross-border collaboration.
- **Strategic Cross-fora Engagements:** Enhancing cross-for a coordination and cooperation for PPP stakeholders collaboration to foster an integrated and holistic approach towards resilient APEC.

## **Panel 5 Map out for APEC Resilience City and Community** at 13:30

- How to ensure the effective capacity building for the next generation for building a resilient tomorrow?
- Introducing AMGS for APEC Youth Science Award in DRR
- APEC Member Economies' Report
- Cross-fora Engagements

**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

**P5.1 Plenary Speaker: Chile**

**Jeniffer OLGUÍN**, Head of Innovation and Development, SENAPRED

Projects for a Resilient Future in Disaster Risk Management

Proyectos para un futuro resiliente en Gestión del Riesgo de Desastres (Projects for a resilient future in Disaster Risk Management)



Jeniffer Olguín Araya

Head of the Innovation and Development Department
Specialist in Project Administration and Management
National Service for Disaster Prevention and Response (SENAPRED)
Socio-economist, University of Valparaíso, Chile.
Diploma in Civil Society Organizations, FLACSO.

She showcased the good and best practice of Chile for APEC consideration:

**Coastal Sirens:** This project involved the construction and implementation of an Alert System for potential risks and tsunami evacuation processes. It included

installing a network of alarm stations with redundant communication systems and control centers. This model allowed for the system's operation and maintenance for 20 years.

**Emergency Alert System (SAE):** This emergency messaging system aimed to warn and provided instructions to a community located in a risk zone during emergency situations. The project included platform updates and the integration of new dissemination channels such as social media, SMS, radio, and TV.

**Information System:** Article N°39 of Law 21.364 established SENAPRED's obligation to install an Information System for Disaster Risk Management (DRM) that interoperated and integrated information from other agencies within the System.

**To sum up, Head of Innovation and Development Jeniffer Olguín** outlined Chile's commitment to modernizing its disaster response through innovation. The key contribution of these projects for member to think about were:

- **Innovative Risk Mitigation:** Exploring current and upcoming R&D projects designed to enhance the predictive and adaptive capacities of Chile’s disaster management system.
- **Technological Integration:** Discussing how SENAPRED utilized new technologies and data-driven models to strengthen disaster risk management (DRM) at both central and local levels.
- **Sustainable Resilience Strategies:** Highlighting specific projects that moved beyond immediate response to focus on long-term reconstruction and community-based resilience.
- **Chile’s Institutional Evolution:** Providing insights into how the innovation department within SENAPRED drives policy changes to meet the challenges of an increasingly complex climate and seismic landscape.

**P.5.2 Plenary Speaker: Mexico**

**Anya TINAJERO VEGA**, Director for Humanitarian Aid and Risk Management, **Mexican Agency for International Development Cooperation**

AMEXCID Community Response




**Director Anya Tinajero Vega** highlighted Mexico's strategic approach to empowering local populations as the first line of defense in disaster situations. Key discussion points likely included:

- **Localized Humanitarian Aid:** Highlighting how AMEXCID coordinated global cooperation to ensure that humanitarian resources reached communities efficiently and equitably.
- **Community-Led Risk Management:** Discussing frameworks that moved beyond top-down response, focusing instead on training and equipping local communities to manage immediate risks.
- **Mexico's Regional Leadership:** Sharing best practices from Mexico's experience in managing diverse natural hazards and how these community-based models could be adapted across other APEC economies.
- **Sustainable Resilience:** Emphasizing the link between effective community response and long-term social stability, ensuring that disaster-affected areas could recover with greater autonomy.

**P5.3 Plenary Speaker: Chinese Taipei**

**Yanling LEE**, Secretary General, APEC ACTS

APEC Meeting on Resilient City - Navigating the Power of Science and Technology for Resilient APEC



Dr. Yanling Lee (Sophia) Ph.D. in the Architecture, Civil Engineering and Industrial Management Engineering, Nagoya Institute of Technology, Japan and MBA (Master's in Business Administration), Coventry University, UK. She is serving as the Chinese Taipei official focal point of contact under APEC Emergency Preparedness Working Group (EPWG) since 2005 as well as the Secretary General of APEC Emergency Preparedness Capacity Building Center (EPCC) under EPWG and the APEC Research Center for Typhoon and Society (ACTS) under PPSTI.

She has a wealth of experience in policy making coordination and capacity building through engaging public-private partnership to better prepare for and respond to natural disasters among APEC economies in cross-cutting issues. Prior to the above-mentioned experience, she was a coordinator both in Investment Promotion and Development and R & D Section; Coordination and Service Office for Asia-Pacific Regional Operations Center of Committee of Economic Planning and Development, since 1998 responsible for Asia-Pacific Regional Financial Center and Government Restructure Affairs; a Media Research Analyst in Leo Burnett Advertising and a System Engineer as well as a Money Market Dealer at the Bank of Nova Scotia.

In the field of disaster risk management, she dedicated herself to promoting people-centered solutions. As a whole of society, she firmly believed that DRR activities needed to be linked with people's daily activity or welfare/social protection system to continuously benefit everyone at community level to uphold the global supply chain connectivity with quality human resources in a healthy planet for sustainable and inclusive growth. In light of this, she aimed to promote and accelerate actions through incentives to motivate and navigate the long-term living project in conjunction with DRR knowledge, local value and involvement for creating sustainability for all towards "Leave No One Behind".

She showcased APEC's efforts and addressed environmental challenges nowadays for Disaster Risk Reduction (DRR), and Climate Change Adaptation (CCA) in the Asia-Pacific region. She referenced key frameworks such as the Sendai Framework and emphasized collaboration among member economies to build resilient cities and communities, in alignment with the Sustainable Development Goals (SDGs). She showed how member economies could harness the transformative potential of science and technology to safeguard urban environments. She identified major challenges including global disaster response, climate adaptation, and infrastructure resilience. She highlighted innovative approaches such as digital solutions, early warning systems, and public-private partnerships to improve disaster preparedness and recovery. Capacity building, knowledge sharing, and science-based policy recommendations were noted as essential for inclusive growth and sustainable development. Key strategic approaches include:

- **Technological Integration for Disaster Mitigation:** Exploring the use of advanced technologies such as Big Data, IoT sensors, and AI—to monitor urban risks and provide real-time forecasting for natural hazards.
- **Scientific Innovation in Urban Planning:** Discussing how evidence-based scientific research could inform the design of "smart" infrastructure and resilient city frameworks.
- **Regional Knowledge Exchange:** Leveraging the APEC platform to facilitate the transfer of disaster-resilient technologies and best practices among member economies.
- **Strategic Policy Alignment:** Navigating the intersection of scientific advancement and public policy to ensure that urban development was both sustainable and capable of withstanding systemic shocks.

**Wrap up**

**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

Dr. Yanling Lee (Sophia) consolidated the critical importance of DRR and CCA investing in youth and scientific excellence including:

- **Effective Capacity Building:** Exploring strategic approaches to ensure that the next generation was equipped with the skills, knowledge, and leadership capabilities necessary to build a resilient APEC.
- **APEC Youth Science Award in DRR:** Formally introducing the **AMGS** associated with the **APEC Youth Science Award in DRR**, which aimed to incentivize and recognize innovative research from young scientists into central and local disaster preparedness efforts for APEC connectivity.
- **Cross-fora Engagements:** Highlighting the critical contribution of cross-fora synergy for fostering an inclusive and collaborative APEC by youth-led resilience projects.

## Panel 6 Collaboration for APEC Resilient City and Community

at 15:00

**Cross-fora Engagement**

**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

**P6.1 Plenary Speaker: Japan**

**Naho FUKUSUMI**, Deputy Director, Cabinet Office

Japan's focus areas for Disaster Risk Reduction



Ms. FUKUSUMI Naho
Deputy Director for International Cooperation Division,
Disaster Management Bureau,
Cabinet Office of the Government of Japan

Ms. FUKUSUMI is a government official with experience in private sector. She began her professional career in 2013 at a bridge manufacturing company named IHI Infrastructure Systems Co., Ltd. During her career for more than a decade, she was involved in the management of various global infrastructure projects. Since 2024, she had served at the Cabinet Office of Japan. She graduated from Osaka City University in 2013.

Deputy Director **Naho Fukusumi** drew from Japan's extensive historical experience and leadership in disaster management; the presentation outlined the current strategic priorities for Japan on **Disaster Risk Reduction (DRR):**

- **Implementation of the Sendai Framework:** Aligning policies with global standards to achieve substantial reductions in disaster risk and losses in lives, livelihoods, and health.
- **"Build Back Better" Philosophy:** Emphasizing that recovery and reconstruction phases were critical opportunities to integrate DRR into development, ensuring communities were more resilient than they were before a disaster.
- **Technological Innovation:** Leveraging Japan's advanced capabilities in real-time seismic monitoring, AI-driven weather forecasting, and automated early warning systems (EWS).

- **Structural vs. Non-Structural Measures:** Balancing high-tech infrastructure (like sea walls and seismic-resistant buildings) with "soft" measures such as community education, evacuation drills, and risk mapping.
- **Investment in Resilience:** Promoting DRR as a critical investment for sustainable economic growth, rather than just a reactive cost.

**P6.2 Plenary Speaker:**

**Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**

APEC Resilient City and Community

APEC Non-Binding Resilient City/Community Guiding Principles for Join Action
Best Practice - Plant Back Better Initiative

As one of the APEC best practice, Dr. Yanling Lee (Sophia) introduced the "Plant Back Better" project in the Philippines, which focused on promoting capacity building through the adoption of smarter and disaster-resistant plantation methods for flowers and vegetables. She also mentioned the use of Civil IoT for real-time disaster monitoring in Chinese Taipei. Dr. Lee stressed the importance of gender equality, community engagement, and cross-fora collaboration to ensure a resilient and sustainable future for all. She showcased how to establish a standardized yet flexible framework for food security, climate-smart agriculture community, gender empowerment, regional human security and build back better on plant back better. The key core elements of the PBB initiative include:

- **Establishing Guiding Principles:** Introducing the **"APEC Non-Binding Resilient City/Community Guiding Principles for Joint Action,"** which aimed to align disaster risk reduction (DRR) strategies across member economies through a shared, voluntary protocol.

- **Fostering Joint Action:** Emphasizing the importance of coordinated regional efforts, ensuring that urban and community resilience was built through synchronized policy and technical cooperation.
- **The "Plant Back Better" Initiative:** Highlighting a specific best practice focused on ecological restoration and green infrastructure. This initiative likely adapted the "Build Back Better" philosophy to environmental recovery, ensuring that post-disaster landscapes were more resilient and sustainable.
- **Strategic Capacity Building:** Utilising the EPCC's expertise to provide member economies with the tools and knowledge required to implement these guiding principles at the local and central levels.

**Wrap up**

Dr. Yanling Lee (Sophia) wrapped up the session discussions to serve as a cornerstone, identify the common interest under APEC and explored strategic pillars of collective resilience for 2025 APECRW to move forward. These may include recommendation on strategies, policy, countermeasure or regulatory aspects. The scope of the interactive session designed to refine the future public private collaboration in key areas on **"Collaboration for APEC Resilient City and Community,"** highlighting the essential role of unified regional action in building a secure and sustainable future for the Asia-Pacific in the following key areas:

- **Interconnected Regional Safety:** Recognizing that the urban resilience of individual member economies was a critical component of regional trade stability and human security.
- **Knowledge and Technical Transfer:** Facilitating the exchange of best practices, scientific research, and innovative disaster mitigation technologies between member economies.
- **Multi-Stakeholder Synergy:** Encouraging deep-seated cooperation between government agencies, private enterprises, and local residents to create a bottom-up and top-down approach to safety.

- **Adaptive Urban Governance:** Designing flexible urban management models and policies that could withstand and recover rapidly from large-scale climate, seismic, or systemic shocks.
- **Sustainable Development Integration:** Aligning disaster resilience goals with broader APEC initiatives for green growth and inclusive economic development.

## 3. CONCLUSION

Dr. Yanling Lee (Sophia) Concluded the 2025 APECRW and identify the common interests under APEC for resilience. The recommendations, strategies, policy, countermeasure and regulatory aspects for APEC information, consideration or implementation on refining the future PPP from crisis to resilience.

## Bringing the Highlights to the PPSTI 26

**APEC Resilience Week** served as a premier cross-disciplinary forum where member economies, academic experts, and private sector leaders converge to harmonize DRR with sustainable and inclusive economic growth. The following highlights represented the core pillars of regional cooperation discussed during the forum:

### Institutional & Legal Innovations

- **Japan's Structural Reform:** A landmark highlight is the 2026 establishment of the **Disaster Management Agency of Japan**, a centralized authority designed to streamline emergency response and long-term recovery.
- **Chile's Integrated Framework:** Chile showcased its progress in merging **DRR** with **CCA** through new legal instruments, ensuring that climate action and safety are treated as a singular priority.

**Technology and Smart Solutions**

- **Cyber-Physical Security:** Discussions focused on adopting dynamic security models to protect **critical infrastructure** in high-density metropolitan areas, business and industrial estates/zone or science park.
- **Science-Policy Platforms:** Peru introduced the **Vincúlate Platform,** a public STI (Science, Technology, and Innovation) instrument designed to bridge the gap between scientific research and actionable public safety policies.
- **Cascading Event Simulations:** Insights from Japan emphasized using advanced simulations and exercises to prevent interactive failures over the new normals in the urban areas.

**Business Continuity & Supply Chain Connectivity**

- **SME Resilience: SMEWG** urged the cross-fora collaboration to foster business activity with resilient smart tools that helped small and medium enterprises to prepare, respond and recover faster from the impact and aftermath of the disaster and weather extremes.
- **Public-Private Partnerships (PPP):** The cross-border PPPs framework through the **"Build Back Better"** could better off the supply chain connectivity while the large-scale disasters and extreme events struck.

**Community-driven Action & Food Security**

- **Plant Back Better (PBB) Initiative:** This community-based DRR initiative focused on disaster-resilient vegetable plantation to ensure **food security** and livelihood recovery to uphold the APEC economy as a resilient approach.
- **Local Empowerment:** Mexico's **AMEXCID** shared community-led approach and highlighting local residents were the primary responders in disaster.

**Empowering Youth and Gender Involvement**

- New Zealand reaffirmed the commitment of **the Putrajaya Vision 2040** to continue implementing **APA**, to promote **gender inclusive** and **indigenous knowledge** DRR and CCA for an **open, dynamic, resilient**

**and peaceful** Asia-Pacific community by 2040 and to the prosperity of all our people and future generations.

- **Youth Engagement:** The **APEC Youth Science Award in DRR** aimed at incentivizing young researchers to contribute innovative solutions to the region's most pressing environmental challenges.

**Strategic Conclusion: The Path to PPSTI 26**

**PPSTI 26** noted that APEC's resilience was highlighted by **integrating STI into practical policy framework for implementation** for better emergency response, preparedness and recovery**.** By adopting the APEC Non-Binding Resilient City/Community Guiding Principles, APEC could facilitate the cross-fora collaboration on pressing challenges with common interests to move forward a resilient APEC on synergy for inclusive growth.

### 3.1. SURVEY RESPONSE

The post event survey (Please refer to annex D) was distributed to participants to help better understand the strengths and challenges of the event impacts and its contributions to capacity building. **APEC Economy Representative Attendance Responded Rate at 82.6%.**

**Table 1 Summary of Overall Evaluation Results**

| Question | Strongly Agree | Agree | Disagree |
|---|---|---|---|
| **Q1: Objectives clearly defined** | 89.26% | 10.74% | 0.00% |
| **Q2: Project achieved objectives** | 86.67% | 13.33% | 0.00% |
| **Q3: Topics were relevant** | 86.67% | 13.33% | 0.00% |
| **Q4: Content well organized** | 94.07% | 5.93% | 0.00% |
| **Q5: Gender issues addressed** | 75.56% | 24.44% | 0.00% |
| **Q6: Experts/Facilitators prepared** | 91.48% | 8.52% | 0.00% |

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|---|---|---|---|
| **Q7: Materials distributed useful** | 75.56% | 24.44% | 0.00% |
| **Q8: Time allotted sufficient** | 59.26% | 37.04% | 3.70% |
| **Survey Analysis: Rating Scale Questions** | | | |
| **Question** | 5<br>Very | 4<br>Mostly | 3<br>Somewhat |
| **Open Q1: Relevance to economy** | 70.37% | 29.63% | |
| **Open Q4: Impactful points (Rating)** | 51.11% | 40.74% | 8.15% |
| **Open Q5: Application of knowledge** | 29.63% | 66.67% | 3.70% |

According to Table 1, the event was highly valued by participants as being well-structured to achieve its objectives, and it was considered to have successfully fulfilled its intended purpose. In particular, the clear definition of the event and the well-organized content with active gender involvement were appreciated while demonstrating the diversified expertise in the area of DRR and CCA for facilitating the capacity building with interactive discussion.

The event was recognized with positive feedback for impactful application of knowledge through expert facilitation on capacity building. The best practices presented (i.e. convenience story alliance of Japan) received great interest from APEC economies for requesting future opportunities for implementation. The Project Overseer received positive comments and input from the participants of allocated presentation and topics with theme based on clear cross-fora collaborations for keen connectivity to enable the exchange on the cross-cutting issues and the common interests for future team up in a timely manner. The suggestions came from open questions; the common interests were:

1. Consider incorporating field survey, for example, the best practices or case studies or hands-on exercises

2. Consider hosting 3 days or a week program with on-site face-to-face interactives with the practitioners in the community to deepen the discussions in practices.
3. More discussion time slots and round-table dialogues were needed for building partnerships and networking.

Nevertheless, the material distribution received comparatively lower ratings due to the time constraint for translation before dissemination for acknowledgement specifically the handling of local knowledge with diversified languages in used for sharing and discussions. The DRR and CCA were mostly the matter of locals, and it would be a long-term challenge for most of the authorities in charge to face the language barrier. Fortunately, it suggested that we could work together to utilize AI technology to overcome the challenges of language for better understanding the local knowledge to create a data bank for resolving the issues in the near future for inclusive growth build by the resilient city and community. There was a strong consensus that **advanced technologies** (AI, ICTs and Digital resilience) were keys to DRR and CCA in which APEC was suggested to explore in depth in upcoming subsequent activities.

To sum up, the overall performance of the event received satisfactory feedback from the workshop attendees with diversified portfolios of expertise, quality interactive discussions and in depth sharing of the best practices, knowledge and information on common interests adhered to the goals which facilitated the connectivity among APEC member economy to achieve the sustainable development goals.

### 3.2. GENDER INCLUSION

The physical event attendance were in total of 62 participants (Up to 58% of the participants were female and 52% of the speakers were female) from 17 APEC member Economies (Brunei Darussalam; Canada; Chile; Indonesia; Japan; Korea; Malaysia; Mexico; New Zealand; Papua New Guinea; Peru; the Philippines; Singapore; Chinese Taipei; Thailand; United States and Viet Nam)

of cross fora collaborations among EPWG, PPSTI, SMEWG, CTI, DESG, FMP, SCSC and EGILAT. With active involvement of female delegates, policy makers, community practitioners, etc., the interactive discussions in every session could be realized in gender perspectives with common interests and challenges for solution. With female contributions in the field, the resilient city and community was better off.

### 3.3. NEXT STEPS

In Asia, rapid population aging was underway accompanied by sharp increase in the number of people living in the disaster affected areas in APEC. According to the report "Addressing Demographic Change in the APEC Region" published by APEC Policy Support Unit - addressed that "The APEC region is going through seismic demographic changes which will impact economic growth, financial stability, and fiscal budgets." APEC faced the scenario of a shrinking labour force and slower productivity growth that hindered economic performance…... affect investment and innovation. "

In this context, to echo to the 2025 APEC Korea priority and theme as well as the 2025 APEC Leaders' Gyeongju Declaration for promoting ***APEC Collaborative Framework for Demographic Changes,*** DRR and CCA Policy options focused on intensifying the cooperation and coordination to effectively respond to global challenges including energy, food security, environment, extreme weather events and natural disasters, to build a more resilient Asia-Pacific based on quality workforce, effective STI and resilient community.

A Step forward for APEC on human security, we facilitated the effective cross-fora collaborations on cross-cutting issues for stakeholders to avoid duplication efforts and resources on resolving the common challenges and impacts to move beyond pilot projects to an impactful action for implementing APEC Resilient City and Community in the long run. Thus, it was a priority for APEC to formulate effective public-private collaborations and business models that could support connectivity, mobility and data infrastructure/center interoperability to benefit from

the overarching technology of ICT or AI development in the long run for achieving sustainable development goals.

## ANNEX A: WORKSHOP AGENDA

The agenda of the conference can be accessed through the APEC Project Database (PDB).

**APEC Resilience Week**
**APEC Workshop on Empowering APEC Resilience City and Community for Sustainable Development**
(EPWG 102 2024A)
2-3 August, Incheon, Korea

## Meeting Room 115 – 1st Floor

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| **Day 1 – Saturday 2 August, 2025** | |
| **Registration** | |
| **Opening**<br>This section provided a brief overview of the work undertaken in APEC to promote the resilience from Challenge to Action. This involved the perspectives, work in progress as well as strategic approach for collaboration under APEC among EPWG, PPSTI and SMEWG. | |
| 09:00 – 09:10 | **1.1 Welcome Address by host Economy**<br>**Young-Soo CHOI**, Director, the APEC Disaster and Safety Support Group, Ministry of Interior and Safety, **Korea** |
| 09:10 – 09:15 | **1.2 Opening Address**<br>**George CHIOU**, the representative of the Taipei Mission in Korea, Ministry of Foreign Affair, **Chinese Taipei** |
| 09:15 – 09:20 | **1.3 Recap of the 21st EPWG and 18th SDMOF**<br>**Dayra CARVAJAL**, EPWG Co-Chair, Portfolio Manager for Cross-Sector Partnerships International Affairs Division, Federal Emergency Management Agency (FEMA), **the United States** |
| 09:20 – 09:25 | **1.4 Cross-fora Remark by host Economy**<br>**Hwanil PARK**, PPSTI Host Vice Chair, Directorate for Global Strategy, **Korea**<br>Science, Technology and Innovation for Building a Sustainable Tomorrow |
| 09:25 – 09:30 | **1.5 Remark by EPWG Delegation**<br>**Katsuhiko KITA**, Director, International Cooperation Division, Disaster Management, Bureau, Cabinet Office, **Japan** |
| 09:30 – 09:35 | **1.6 Remark by EPWG Delegation**<br>**Dave Gawn**, Chief Executive, New Zealand's National Emergency Management Agency, **New Zealand**<br>Resilient Society, Sustainable Economy |
| 09:35 – 09:40 | **1.7 Cross-fora Message from SMEWG** |

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| | **Aaron SYDOR**, Vice Chair of SMEWG, Director of Trade and Economic Analysis, Foreign Affairs and International Trade **Canada**<br>Emergency Preparedness for Resilient Business |
| 09:40 – 09:45. **Group Photo** | |

| **DRR High Level Policy Dialogue** | |
|---|---|
| 09:45-<br>09:50 | **Team up for Resilience Through Public Private Partnership – Challenge and Strategy**<br>**Moderator: Yanling LEE**, Secretary General, APEC Emergency Preparedness Capacity Building Center (EPCC), **Chinese Taipei** |
| 09:50-<br>10:05<br>15 mins | **DRR1.1 Plenary Speaker: Japan**<br>**Katsuhiko KITA**, Director, Disaster Management Bureau, Cabinet Office, Government of Japan<br>Recovery and reconstruction following the Great East Japan Earthquake (2011) and the Noto Peninsula Earthquake (2024) |
| 10:05-<br>10:20<br>15 mins | **DRR1.2 Plenary Speaker: New Zealand**<br>**Dave Gawn**, Chief Executive, New Zealand's National Emergency Management Agency<br>Building Livelihoods - Supporting Public & Private Sector |
| 10:20-<br>10:35<br>15 mins | **DRR1.3 Plenary Speaker: Indonesia**<br>**Ramatun Anggraini KIEMAS**, Deputy Secretary for Development Policy, National Research and Innovation Agency (BRIN)<br>The Action Plan on Gender and Climate Change in Indonesia |
| 10:35-<br>10:40<br>20 mins | **Comments and Inputs**<br>**Dayra CARVAJAL**, EPWG Co-Chair, Portfolio Manager for Cross-Sector Partnerships International Affairs Division, Federal Emergency Management Agency (FEMA), **the United States** |
| 10:40-<br>11:00<br>5 mins | **Q&A Wrap up**<br>**Moderator: Yanling LEE**, Secretary General, APEC Emergency Preparedness Capacity Building Center (EPCC), **Chinese Taipei** |
| 11:00-11:10 **Tea Break** | |

| **Panel 1 Managing the Risk** |
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| 11:10 – 11:05 | **Evidence-based STI Support for Information and Knowledge Sharing**<br>• Exploring the risk associated with disasters and Weather extremes that affecting lives and economic development for sustainable growth<br>• Strengthening the collection and us of quality data via emergent technology such as AI and innovative technologies for coordinated and proactive countermeasures adaptation for effective and efficient emergency preparedness at central, local, untapped community, indigenous, and traditional knowledge; and risk knowledge providers across all of the society for networking.<br>• Sharing experience through public private partnership network for collaboration among stakeholders in multi-sectors to tackle the challenges.<br><br>**Moderator: Hwanil PARK**, PPSTI Host Vice Chair, Directorate for Global Strategy, **Korea** |
| 11:05 – 11:20<br>15 mins | **P1.1 Plenary Speaker: Japan**<br>**Akio SASAHARA**, Executive Director, Asian Disaster Reduction Center (ADRC)<br>Rethinking ICT & DRR beyond Japan |
| 11:20 – 11:35<br>15 mins | **P1.2 Plenary Speaker: Viet Nam**<br>**Xuan Dien LUONG**, Assoc. Prof, Vice Director, Center for Student Innovation and Entrepreneurship Senior Lecturer, Hanoi University of Science and Technology (HUST)<br>What Viet Nam can Learn from APEC Economies - Leveraging Digital Technologies and Governance Models to Improve Disaster Forecasting and Urban Resilience |
| 11:35– 11:50<br>15 mins | **P1.3 Plenary Speaker: Japan**<br>**Kenji WATANABE**, Professor of Graduate School of Social Engineering Head of Disaster and Safety Management, Nagoya Institute of Technology<br>Build Interoperability and Enhance Resilience of Critical Infrastructures through Cascading Events Simulation for Disaster-sensitive Metropolitan Areas |
| 11:50 – 12:05 15 mins. **Q & A** | |

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| 12:05–<br>12:15<br>10 mins | **Wrap up**<br>**Moderator: Hwanil PARK**, PPSTI Host Vice Chair, Directorate for Global Strategy, **Korea** |
| 12:15– 13:30 **Lunch** | |
| **Panel 2 Best and Good Practices Sharing** | |
| 13:30 –<br>13:35 | **Engaging Meaningful Collaboration for Resilience for Business Continuity and Supply Chain Connectivity**<br>• Strengthening engagement across ministries, with local communities, and financial institutions through public private partnership<br>• Enhancing disaster preparedness for effective response and to "Build Back Better" for quicker recovery, rehabilitation and reconstruction<br>• Achieving end-to-end, people-centered, and multi-hazard early warning systems by learning from past disaster events and utilising existing partnerships.<br>• Utilising the smart policies, solutions and newly emergent technologies as critical enablers in providing scientific evidence and solutions in responding to the risks.<br>• Sharing experience through public private partnership network for collaboration among stakeholders in multi-sectors to tackle challenges.<br>**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| 13:35-<br>13:50<br>15 mins | **P2.1 Plenary Speaker: Japan**<br>**Miki KODAMA**, Director, Research Department, Asian Disaster Reduction Center (ADRC)<br>Engaging the Private Sector for a Balanced DRR Approach - The Case of Convenience Stores |
| 13:50-<br>14:05<br>15 mins | **P2.2 Plenary Speaker: Chinese Taipei**<br>**Yanling Lee** (Sophia) Secretary General, APEC EPCC<br>APEC Resilience Conference for Business Continuity Planning and Supply Chain Connectivity |

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|---|---|
| 14:05-<br>14:20<br>15 mins | **P2.3 Plenary Speaker: Canada**<br>**Cross-fora Message from SMEWG**<br>**Aaron SYDOR**, Vice Chair of SMEWG, Director of Trade and Economic Analysis, Foreign Affairs and International Trade Canada<br>Emergency Preparedness for Resilient Business |
| 14:20-14:35. 15 mins. **Q & A** | |
| 14:35 –<br>14:45<br>10 mins | **Wrap up**<br>**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| 14:45-15:00 15 mins. **Tea Break** | |
| **Panel 3 Best and Good Practices Sharing** | |
| 15:00 –<br>15:05 | **Exploring Smart Policies or Solutions for APEC Resilient City and Community (ARC) to Resolve the Societal Challenges**<br>• How can we plan to manage the excessive concentration of flows of people, goods & services, money, and information in greater metropolitan areas?<br>• What is the role of policy makers in disaster for planning of an APEC resilience city or community?<br>• How to adopt dynamic cyber-physical security approach in critical infrastructure protections<br>• How to enhance smart solutions to facility the quality decision-making of commanders and leaders in mitigation and adaptation in the public and private sector?<br>• APEC Member Economies' Report<br>• Cross-fora Engagements<br><br>**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| 15:05-<br>15:20<br>15 mins | **P3.1 Plenary Speaker: Japan**<br>**Mitsuhiro YAO**, Counsellor for Global Strategies, Ministry of Land, Infrastructure, Transport and Tourism (MLIT)<br>Overview - APEC Tokyo Conference on Quality Infrastructure Investments |

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| | to address environmental challenges of the cities in APEC region (CTI 101 2024T), 17-18 June 2025, Tokyo Japan |
| 15:20-15:35<br>15 mins | **P3.2 Plenary Speaker: Chile (TBC)**<br>**Natalia COFRÉ**, Climate Change Adaptation Specialist, SENAPRED<br>Disaster Risk Reduction and Climate Change Adaptation - Progress for Integration from the Legal Framework and National Instruments in Chile |
| 15:50-16:05 15 mins. **Q & A** | |
| 16:05-16:15<br>15 mins | **Wrap up**<br>**Moderator : Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| 16:15-16:30 | **Wrap up for Day 1**<br>**Highlight of the day 1 Key Area of the 2025 APECRW Resilience Week**<br>APEC Emergency Preparedness Capacity Building Center (EPCC), Chinese Taipei<br>To give a brief overview of the work undertaken in APEC to promote resilience from Challenge to Action.<br><br>**Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| **Day 2 – Sunday 3 August, 2025** | |
| **Registration** | |
| 09:00 – 09:15 | **Recap of Day 1 EPCC, Chinese Taipei**<br>**Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| **CCA Policy Dialogue**<br>**Capacity Building for Sustainable Tomorrow** | |
| 09:15 – 09:20<br>15 mins | **Investing quality infrastructure to strengthen the economic growth and human security**<br>• How can we measure the impact of disaster on environment, livelihood and cultural heritage?<br>• What elements shall be taken into account for formulating green and circular economy policy and strategy for disaster resilience<br>• APEC Member Economies' Report |

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| | • Cross-fora Engagements<br><br>**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| 09:20-<br>09:35<br>15 mins | **Plenary Speaker: Japan**<br>**CCA1.1 Yuki YANADA**, Director in Charge, Cabinet Office<br>Establishment of "Disaster Management Agency of Japan" (2026) |
| 09:35-<br>09:50<br>15 mins | **CCA1.2 Plenary Speaker: Malaysia**<br>**VIKNESWAREN JEYASIVAM**, Town & Country Planning Officer, Department of Town & Country Planning (PLANMalaysia)<br>Urban Planning and Development |
| 09:50-<br>10:05<br>15 mins | **CCA 1.3 Plenary Speaker: Indonesia**<br>**Ratih DAMAYANTI**, Director of Environment, Maritime, Natural Resources and Nuclear Policy, National Research and Innovation Agency (BRIN)<br>Wooden Houses for Disaster Resilient and Sustainable Environment - How the Humble Tree can Become the Foundation for a more Resilient Future |
| 10:05-10:20 15 mins. **Q & A** | |
| 10:20-<br>10:30<br>10 mins | **Wrap up**<br>**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| 10:30-10:45 15 mins. **Tea Break** | |
| **Panel 4 Best and Good Practices Sharing** | |
| 10:45-<br>12:00 | **Public Private Partnership Cross Borders**<br>• partnership for "Build Back Better" for quicker recovery, rehabilitation and reconstruction<br>• Information sharing through innovative research, science and technology for early warning through existing partnerships.<br>• APEC Member Economies' Report<br>• Cross-fora Engagements<br><br>**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |

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| 10:50-<br>11:05<br>15 mins | **P4.1 Plenary Speaker: Korea**<br>**Gaeun KIM**, Researcher, APEC Climate Center<br>A Pipeline from Testbed to Verification: Toward Operationalization and Systematic Validation of Climate Models |
| 11:05-<br>11:20<br>15 mins | **P4.2 Plenary Speaker: Peru**<br>**Astrid Hassel Criales JOHNSON**, Innovation Project Specialist, National Council for Science, Technology and Innovation (CONCYTEC)<br>Vincúlate Platform: Building Resilience through Public STI Policy Instruments |
| 11:20-11:50 15 mins. **Q & A** | |
| 11:50-<br>12:00<br>10 mins | **Wrap up**<br>Moderator: **Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| 12:00-13:30 **Lunch** | |

| **Panel 5** | **Map out for APEC Resilience City and Community** |
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| 13:30-<br>13:35<br>15 mins | • How to ensure the effective capacity building for the next generation for building a resilient tomorrow?<br>• Introducing AMGS for APEC Youth Science Award in DRR<br>• APEC Member Economies' Report<br>• Cross-fora Engagements<br><br>**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| 13:35-<br>13:50<br>15 mins | **P5.1 Plenary Speaker: Chile**<br>**Jeniffer OLGUÍN**, Head of Innovation and Development, SENAPRED<br>Proyectos para un futuro resiliente en Gestión del Riesgo de Desastres |
| 13:50-<br>14:05<br>15 mins | **P.5.2 Plenary Speaker: Mexico**<br>**Anya TINAJERO VEGA**, Director for Humanitarian Aid and Risk Management, **Mexican Agency for International Development Cooperation**<br>AMEXCID<br>Community Response |

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| 14:05-<br>14:20<br>15 mins | **P5.3 Plenary Speaker: Chinese Taipei**<br>**Yanling LEE**, Secretary General, APEC ACTS<br>APEC Meeting on Resilient City - Navigating the Power of Science and Technology for Resilient APEC |
| 14:20-14:35 15 mins. **Q & A** | |
| 14:35-<br>14:45<br>10 mins | **Wrap up**<br>**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| 14:45-15:00 15 mins. **Tea Break** | |
| **Panel 6 Collaboration for APEC Resilient City and Community** | |
| 15:00-<br>15:05 | **Cross-fora Engagement**<br><br>**Moderator: Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| 15:05-<br>15:20<br>15 mins | **P6.1 Plenary Speaker: Japan**<br>**Naho FUKUSUMI**, Deputy Director, Cabinet Office<br>Japan's focus areas for Disaster Risk Reduction |
| 15:20-<br>15:35<br>15 mins | **P6.2 Plenary Speaker:**<br>**Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei**<br>APEC Resilient City and Community<br>APEC Non-Binding Resilient City/Community Guiding Principles for Join Action<br>Best Practice - Plant Back Better Initiative |
| 15:35-15:50. 15 mins. **Q & A** | |
| 15:50-<br>16:05<br>15 mins | **Wrap up**<br>Wrap up the session discussions and identify the common interest under APEC for 2025 APECRW to move forward. These may include roadmap and recommendation on strategies, policy, countermeasure or regulatory aspects. The scope of the interactive session is designed to refine the future public private collaboration in key areas.<br><br>**Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |

| Concluding Summary | |
|---|---|
| 16:05-17:00<br>55 mins | Conclude the 2025 APEC resilience week and identify the common interests under APEC for resilience. These may include roadmap, recommendation, strategies, policy, countermeasure or regulatory aspects. The scope of the interactive session is designed to refine the future public private collaboration from crisis to resilience.<br><br>**Yanling Lee** (Sophia) Secretary General, APEC EPCC, **Chinese Taipei** |
| **Bringing the Highlights to the PPSTI 26** | |

## ANNEX B: PRESENTATION MATERIALS

All documents and materials for the conference can be accessed through the APEC Meeting Document Database (MDDB) if applicable.

https://mddb.apec.org/Pages/search.aspx?setting=ListMeetingGroup&DateRange=2025/08/01%2C2025/08/end&Name=Workshop%20on%20Empowering%20APEC%20Resilience%20City%20and%20Community%20for%20Sustainable%20Development%202025&APECGroup="Emergency%20Preparedness%20Working%20Group%20(EPWG)"

# ANNEX C: RECOMMENDATION

## APEC Called Upon Cross-fora for Collaborative STI Solution

**The APEC Resilience Week, Incheon, Republic of Korea**

**3 August 2025**

**APEC Resilience City and Community Initiative**

In light of the need to carry forward the Senior Disaster Management Official Forum's discussions into concrete actions and deeper collaboration concluded, the Republic of Korea and Chinese Taipei co-host the APEC Resilience Week to serve as an excellent networking for cooperation on "Resilience-Oriented Disaster Management", said by Young-Soo CHOI, Director, the APEC Disaster and Safety Support Group, Ministry of Interior and Safety, Korea.

**APEC economies, cities and community experience similar challenges - natural disasters and weather extremes.**

APEC Resilience Week identified future STI for DRR approach to tackle challenges and explore collaborative STI solutions through public private partnership while fostering a sustainable APEC community. Stakeholders of 17 economies; Canada; Chile; Indonesia; Japan; Korea; Malaysia; Mexico; New Zealand; Papua New Guinea; Peru; the Philippines; Singapore; Chinese Taipei; Thailand; the United States and Viet Nam; from government, academia, business leaders joined together here in Incheon to address pressing challenges for exploring practical strategies on STI based DRR through public-private partnerships. To open a new chapter for cross-fora collaboration, delegates and experts from EPWG, PPSTI, SMEWG, CTI, FMP, SCSC and EGILAT highlighted three critical key areas for meaningful collaboration:

- **Connect** Stakeholders on Policy-led Local Driven Solutions for Synergy
- **Innovate** STI on DRR through AI for Smart Cities, Smart energy, Quality Infrastructure and Infostructure Investment

**Prosper** on Resilience Proactive Disaster Preparedness, Quick Response and Recovery

# ANNEX D: POST-EVENT SURVEY QUESTIONNAIRE

## APEC Project Evaluation Survey
## Seminar, Symposium, Workshop

APEC Project Name/Number: EPWG 102 2024A - Empowering Inclusive APEC Resilient City and Community for Sustainable Development

Date: 2-3 August 2025

**Instructions:** Please indicate your level of agreement with the statements listed in the table below.

| | Strongly Agree | Agree | Disagree | COMMENTS ontinue on back if necessary) |
|---|---|---|---|---|
| The objectives of the training were clearly defined | | | | |
| The project achieved its intended objectives | | | | |
| The agenda items and topics covered were relevant | | | | |
| The content was well organized and easy to follow | | | | |
| Gender issues were sufficiently addressed during implementation | | | | |
| The trainers/experts or facilitators were well prepared and knowledgeable about the topic | | | | |
| The materials distributed were useful | | | | |
| The time allotted for the training was sufficient. | | | | |

1. How relevant was this project to you and your economy?

| 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|
| very | mostly | somewhat | a little | not much |

*Explain:*_____

In your view what were the project's results/achievements?

*Explain:*_____

2. What new skills and knowledge did you gain from this event?

*Explain:*_____

4. Rate your level of knowledge of and skills in the topic prior to participating in the event:

| 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|
| very high | high | medium | low | very low |

5. Rate your level of knowledge of and skills in the topic after participating in the event:

| 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|
| very high | high | medium | low | very low |

*Explain:*_____

6. How will you apply the project's content and knowledge gained at your workplace? Please provide examples (e.g. develop new policy initiatives, organise trainings, develop work plans/strategies, draft regulations, develop new procedures/tools etc.).

*Explain:*_____

_____

7. What needs to be done next by APEC? Are there plans to link the project's outcomes to subsequent collective actions by fora or individual actions by economies?

_____

8. How could this project have been improved? Please provide comments on how to improve the project, if relevant.

_____

_____

_____

**Participant information (identifying information is optional):**

Name:

Organisation/Economy:

Email:

Gender: M / F

***Thank you. Your evaluation is important in helping us assess this project, improve project quality and plan next steps***

## ANNEX E: KEY ACRONYMS

| Acronym | Name |
|---|---|
| ACTS | APEC Research Center for Typhoon and Society, PPSTI |
| ADRC | Asian Disaster Reduction Center |
| AMEXCID | Mexican Agency for International Development Cooperation |
| AMGS | APEC Mentoring Center for the Gifted in Science |
| APCC | APEC Climate Center |
| APECRW | APEC Resilience Week |
| BRIN | National Research and Innovation Agency, Indonesia |
| BCP | Business Continuity Planning |
| CAO | Cabinet Office, Japan |
| CCA | Climate Change Adaptation |
| CONCYTEC | National Council for Science, Technology and Innovation |
| DFATD | Foreign Affairs and International Trade Canada |
| DRFI | Disaster Risk Financing and Insurance |
| DRR | Disaster Risk Reduction |
| EGILET | APEC Expert Group on Illegal Logging and Associated Trade |
| EPCC | APEC Emergency Preparedness Capacity Building Center, EPWG |
| FEMA | Federal Emergency Management Agency, The United States |
| FTAAP | the Free Trade Area of the Asia-Pacific |
| HUST | Hanoi University of Science and Technology |
| ICT | Information and Communication Technology |
| JICA | Japan International Cooperation Agency |
| KGSI | Global Strategy, Korea |
| MLIT | Ministry of Land, Infrastructure, Transport and Tourism |
| MOIS | Ministry of Interior and Safety, Korea |
| NEMA | New Zealand's National Emergency Management Agency |
| NITECH | Nagoya Institute of Technology |
| PPP | Public-Private Partnership |
| QII | Quality Infrastructure Investments |
| SCC | Supply Chain Connectivity |
| SDGs | Sustainable Development Goals |
| SDMOF | Senior Disaster Management Official Forum |
| SENAPRED | National Service of Prevention and Disaster Response |