

APEC Meeting on Climate Resilient City

Navigating the Power of Science and Technology for Climate Resilient APEC

APEC Policy Partnership on Science, Technology and Innovation

September 2026



**Asia-Pacific
Economic Cooperation**



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September 2026

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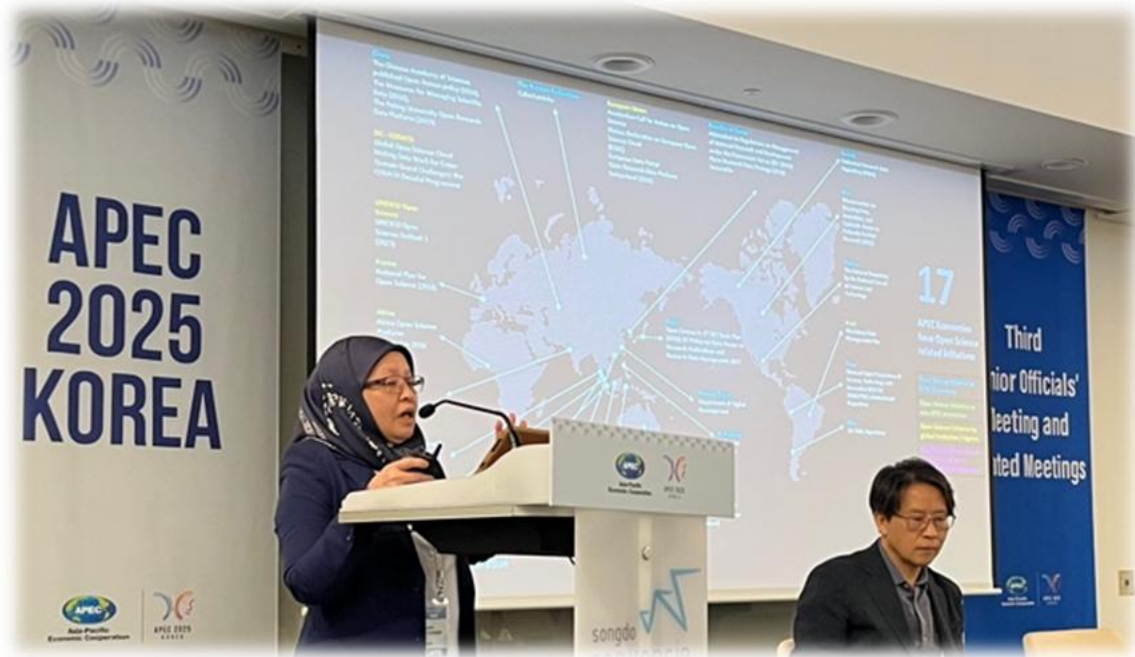
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1. EXECUTIVE SUMMARY

Navigating the Power of Science and Technology for Resilient APEC

APEC Research Center for Typhoon and Society (ACTS) and APEC Emergency Preparedness Capacity Building Center (EPCC) hosted bi-annual APEC Resilience Week (APECRW) under APEC. The 2025 APECRW carried forward the 2023 Seattle Guiding Principles – APEC Non-Binding Climate Resilience Guiding Principles to further explore the approach for capacity building from 2 to 5 August during SOM3 cluster, Incheon, Korea and called upon cross-fora collaborations to “Building a Sustainable Tomorrow”.

APECOSA Ready for Join Action to Harnessing APEC Resilient Science, Technology and Innovation on Emergency Preparedness



Building Infostructure for APEC Resilience City and Community Initiative

ACTS Meeting highlighted science, technology and innovation (STI) to engine the economic growth to build upon the quality infrastructure. Korea and Chinese Taipei co-hosted the APEC Resilience Week to serve as an excellent networking for cooperation on “Enhancing APEC Resilience through the APEC Open Science Alliance (APECOSA)” said by PPSTI Madam Chair Hazami Habib, Malaysia. APECOSA, a vehicle, can carry forward the mission of local knowledge sharing, scientific outcomes acknowledgment, technology transfer, public private partnership engagement, cross-sector, cross-fora, cross-economy collective collaboration onward and benefit the whole of society in terms of synergy.

Collective STI for DRR and CCA on APEC Resilient City and Community

Emphasised by Dr. Hwanil PARK, PPSTI Host Vice Chair, Senior Research Fellow, Science and Technology Policy Institute, “developing innovative technologies including AI, IoT, drones, big data, etc. and enhancing related capacity of member economies are the key elements to reduce the disaster risk and enhancing emergency preparedness in APEC region.” that aligned with the APEC Human Security Agenda for human wellbeing.

APEC Resilience Week called upon stakeholders from government, academia, entrepreneur and practitioner to champion science for action from policy-led approach to local-driven collaborative STI solutions through public private partnership (PPP) in Incheon. Active participation from 17 economies including Canada; Chile; India; Indonesia; Japan; Republic of Korea; Malaysia; Mexico; New Zealand; Papua New Guinea; Peru; The Republic of the Philippines; Singapore; Chinese Taipei; Thailand;

United States and Viet Nam joined to echo the action of sharing the good/best practice and addressing the pressing challenges to brainstorming for the practical strategies on STI based DRR and facilitating sustainable and inclusive growth in APEC. Cross-fora collaboration among PPSTI, EPWG, SMEWG, CTI, FMP, SCSC and EGILAT highlighted four critical key areas for cross-sector engagement:

- STI for Good - DRR **mission-Oriented** Social Welfare and Security Approach
- Disaster Risk Reduction, Mitigation, Preparedness, Response and Recovery on **Resilience**
- From Policy to Action for Empowering Policy-driven Community/Stakeholders **Connectivity** - Public Private Partnership for Communication
- **Digital Transformation** and **Technical Transfer** on Smart Cities, Smart Energy, Quality Infrastructure and Infostructure Investment

Acknowledgements

ACTS Meeting hosted in the margin of the 2025 APEC Resilience Week by Korea and Chinese Taipei during 2025 SOM3 cluster co-sponsoring by **Canada; Japan; Korea; Malaysia; The Republic of the Philippines; Thailand and United States** with collaborative support from **MOIS** (Ministry of Interior and Safety, Korea), **KGSI** (Global Strategy, Korea), **NAIRL** (National AI Research Lab, Korea), **ADRC** (Asian Disaster Reduction Center), **APECOSA** (APEC Open Science Alliance), **IRIDeS** (International Research Institute of Disaster Science, Tohoku University), **Tokio Marine Holdings**, **DFATD** (Foreign Affairs and International Trade Canada), **SENAPRED** (El Servicio Nacional de Prevención y Respuesta ante Desastres), **CEDEUS** (Research Center for Sustainable Urban Development, Chile), **CIGIDEN** (Research Centre for Integrated Disaster Risk Management), **CONCYTEC** (National Council for Science, Technology and Innovation), **AMEXCID** (Mexican Agency for International Development Cooperation), **BRIN** (National Research and Innovation Agency, Indonesia), **CALL** (Climate Adaptation Learning Lab), **PUCP** (Pontificia Universidad Catolica del Peru), **DOST** (Department of Science and Technology XI DOST, The Philippines), **NXPO** (Office of National Higher Education Science Research and Innovation Policy Council, Ministry of Higher Education, Science, Research and Innovation, Thailand), **ACTS** (APEC Research Center for Typhoon and Society) under PPSTI, **EPCC** (Emergency Preparedness Capacity Building Center) under EPWG and **APCC** (APEC Climate Center) to facilitate the cross-fora institutional support among **PPSTI, EPWG, SMEWG, CTI, FMP, SCSC and EGILAT**.

ACTS 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 for **leaving no one behind** in promoting “**APEC Resilient City and Community**” initiative for “**Building an Asia-Pacific Community to Prosper Together**” aligned with key priorities of **Openness, Innovation, and Cooperation** on enhancing regional connectivity, affirming the Free Trade Area of the Asia-Pacific (FTAAP) , and driving resilient green and digital economic transitions over disasters and weather extremes impacts.

2. APEC RESILIENCE WEEK

2.1 OVERVIEW

The weather extremes challenge was significant. Economic development and sustainability can be severely impacted by weather extremes and natural disasters. Took note of the 2023 PSU Annual Report, the APEC region has faced severe challenges due to extensive interruptions to daily livelihoods, lifeline systems, critical infrastructure, and education. These disruptions have effectively "crippled" APEC, leading to a weak business environment and a vulnerable digital economy.

These pressing challenges significantly impact economic growth, human security and global sustainability, the 2025 ACTS meeting emphasised the following to call upon joint attention on:

- **Proactive Strategy for Action:** Taking decisive action in **Disaster Risk Reduction (DRR)** and **Climate Change Adaptation (CCA)** was considered impactful to address these societal challenges.
- **STI Integration for Resilience:** There was an urgent and demanding need to leverage **Science, Technology, and Innovation (STI)** smart policies to build regional resilience and enhance APEC connectivity.
- **Economic Growth with the Risk:** Addressing vulnerabilities were essential to enhancing resilience for regional economic growth over the impacts and the aftermath of disaster and weather extremes.

Understanding the societal challenges and taking proactive actions was becoming the first priority for APEC. In this context, ACTS strived to leverage STI smart policy for resilience on enhancing APEC connectivity and brought forward the PPSTI 06 2022S project outputs, the guiding principles for climate resilient city initiatives to upgrade the capacity of data processing to information intelligence for situation assessment in further support of decision and policy makers to formulate proactive countermeasures from preparedness, response and recovery based on proactive STI alerting or early warning for risk communication.

Core Value

ACTS encouraged continuous investment in STI for DRR and CCA in line with the APEC priorities and APEC DRRF for resilient city and community in achieving SDGs to collaborate, adapt and cohere policy-making for coordinating collective action of synergy. Further aiming to contribute to the APEC family, through cross-fora networking, ACTS identified common interests and explored better STI smart strategies, policy and countermeasures. It activated the scenario of interdisciplinary team up to provide STI solutions and information in the real time basis in support of the decision and policy makers to talk on the same page. With comprehensive understanding of the environmental and societal challenges, a collective STI for DRR and CCA collaborative action can save lives and properties to benefit the whole of society on “build back better” through cross-border public private partnership (PPP).

Objectives

ACTS was committed in a long-term basis to engage a robust institutional cooperation **networking of STI for DRR on Resilience**. The targeted objectives of 2025 ACTS Meeting were aimed at: 1) stocktaking STI smart policy for resilience, 2) promoting resilient enterprises, 3) enabling STI environment, 4) enhancing interoperability, 5) investing quality infrastructure, & 6) empowering indigenous, community and equality as appropriate.

ACTS Meeting

Based on the above-mentioned goals, ACTS carried out as a 2-day meeting in Incheon (agenda as per ANNEX A) during SOM3 Cluster on promoting APEC Resilient City and Community to cover the best practices. The meeting provided an opportunity for economies to share innovative smart strategy and policy-led countermeasures for building sustainable tomorrow

During implementation, full-spectrum of expertise joined to activate the STI synergies and continue to explore the joint solutions for regional resilience. The key pillars built on consensus for future development were as followings:

- Engaged wider **cross-fora collaboration** on **PPP** to implement cross-border capacity building program in mitigating the cascading impacts of disasters, climate, health and economic crises.
- Facilitated information sharing and promoted open data and open technology approaches on **people-to-people connectivity** for pursuing a resilient

livelihood on day-to-day basis built upon secure lifeline systems and quality infrastructure for inclusive growth. For STI Knowledge sharing, ACTS coordinated cross-fora active involvement to seek for multi-disciplinary approach to motivate proactive actions for better emergency preparedness, response and recovery from disasters, climate extremes, health crises and supply chain interruptions

- Focused on the good/best practices sharing of **people-centered** and gender-responsive, multi-hazard STI solutions and projects for future resilience to acquired cross-sectorial institutional capacity and resources for networking to direct benefit APEC member economy as a whole of society as a learning organisation.

Background

APECRW Commitments

Most SMEs/MSMEs in APEC are vulnerable to the disaster and weather extremes that led to the weak business continuity for operation productivity attributed to the supply chain interruption. Following up on the concluding summary of the 2023 ACTS Meeting in Seattle, ACTS identified the common interests including STI strategies, policy, countermeasure or regulatory aspects for discussion. The guiding principles provided as a backbone reference for cross-fora collective capacity building through PPP for engaging the meaningful collaboration on synergy.

Referred to the guiding principles structure in Seattle as following, the event delved into action in Incheon on inviting and investing STI joint efforts for improving

regional resilience over natural hazards and weather extremes through emerging technology.

Guiding Principles

APEC Non-Binding Climate Resilience Guiding Principles

ACTS Annual Meeting

4 August 2023

Seattle

Gender and Community Empowerment

1. Support communities and whole of the society to have access to real-time and reliable data through an easy access web-based platform.
2. Support targeted, localised and simplified communication strategies for human behaviour change that supports effective early warning systems.
3. Provide long-term support both tangible and intangible resources to facilitate self-motivated indigenous communities to develop their own adaptive disaster risk reduction (DRR) and climate action approaches.
4. Understand economy needs in the local contexts. DRR and climate change adaptation (CCA) countermeasures should include sufficient flexibility to adapt to local and community conditions.
5. Involve communities in DRR processes, ensuring diverse representation. Mobilise all stakeholders to understand risks, prevent and mitigate them, and establish anticipatory response mechanisms.

Science, Technology and Innovation Enablement

1. Adaptive and innovative DRR approaches i.e. artificial intelligence for CCA.
2. Leverage the role of stakeholders for innovation with local knowledge and experience.

Risk Financing, Resilient Infrastructure and Investment for Micro Small and Medium Enterprises (MSMEs) & Small and Medium Enterprises (SMEs) Empowerment

1. Plans should be inclusive and accessible, include DRR and CCA risk-informed investment decisions, strategies to deal with natural disaster, climate emergency and epidemic.
2. Strengthen cooperation between public and private sectors and in particular, financial institutions to embed multi-hazard risk analysis for DRR and CCA.
3. Establish science, technology and innovation networks and interoperability mechanisms that support MSMEs to manage residual risk and recover from cascading impact of natural disasters, climate emergency and epidemic for DRR and CCA such as fair insurance options or catastrophe bond.

2025 APECRW Themes and Priority

Echo the 2025 Korea priorities and themes, ACTS showcased the good/best practices on how to apply smart solutions to weather-related sectors including weather

prediction, disaster monitoring using satellite through AI and beyond. Experts invited satisfied the interactive discussion with panorama views to demonstrate their experience and insights on how emerging economies can better adopt digital tools to tackle natural disasters, weather crises amidst pandemic spreading to overcome critical environmental and societal challenges for resilience.

Through the panel, experts, delegates and participants explored the key areas for future STI collaboration as a conclusion.

2.2 HIGHLIGHTS



This project focused on exploring sectoral collective capacity outreach and proactive strategic approach based on interdisciplinary smart policy and solution recommendation. Through STI networking built on common challenges and interests, the cross border PPP best practices sharing in each panel for brainstorming the DRR and CCA proactive countermeasures in practice were widely recognised.

ACTS took note that the guiding principles can lead APEC economy to work as a whole of society. With better understanding of the nature of disasters and weather extremes as dynamic recurring events nowadays, APEC member economies shall work

together to share their practical experience and capacity in each stage of DRR lifecycle and provided valuable insights and findings to map out smart solutions and policy step by step on demand for resilience.

To empower economies in the APEC region and scaling up the capacity in STI, ACTS continued to play the role in bridging the gaps from STI to action to better prepare for, respond to and recover from the weather extremes and disasters through PPP.

Collective STI for DRR and CCA

The fruitful results of ACTS meeting was to call upon government, academia, entrepreneur and practitioner to champion science for action from policy-led approach to local-led collaborative STI solutions through PPP in Incheon. Active participation from 17 economies including Canada; Chile; India; Indonesia; Japan; Republic of Korea; Malaysia; Mexico; New Zealand; Papua New Guinea; Peru; the Republic of the Philippines; Singapore; Chinese Taipei; Thailand; United States and Viet Nam joined to echo action for good/best practice sharing. Through addressing the upcoming pressing challenges and threats for APEC family to respond, the practical cross-fora STI-based strategies can facilitate a sustainable APEC community at the end of the day. The know-how brought by cross-fora collaboration among PPSTI, EPWG, SMEWG, CTI, FMP, SCSC and EGILAT highlighting the quick harvest of four critical key areas for discussion on cross-sector engagement:

- STI for Good - DRR **mission-Oriented** Social Welfare and Security Approach
- Disaster Risk Reduction, Mitigation, Preparedness, Response and Recovery on **Resilience**

- From Policy to Action for Empowering Policy-driven Community/Stakeholders
Connectivity - Public Private Partnership for Communication
- **Digital Transformation** and **Technical Transfer** on Smart Cities, Smart Energy, Quality Infrastructure and Infostructure Investment

Focus on the above-mention key areas, the expert meeting and policy dialogue carried out a fruitful exchange in 2-day meeting in Incheon during SOM3 Cluster on promoting APEC Resilient City and Community to cover the best practices. The synergy has been built among economies to benefit from each other strengths, knowledge, know-how and capacity to customised innovative or proactive smart strategy or policy-led countermeasures for building sustainable tomorrow respectively.

Meeting Summary

ACTS structured the following summary on the lesson-learnt, outcomes and outputs of the events as of reference for developing future approaches. Through engaging the meaningful collective collaboration for synergy, APEC member economies can network to gain the value-added knowledge acquired by experience in practice or in the field to resolve the difficulties while planning or implementation resilient city or community. The quality smart solutions and policies introduced were living projects, adaptable and applicable to each of the APEC economies in need for meaningful regional connectivity are summarised herewith:

Theme 1: Enhancing Business Continuity Planning for Supply Chain Connectivity (SCC) to Safeguard MSMEs for Booming Inclusive Economic Growth

Economic resilience called for joint efforts to better prepare for, respond to and recover from the impact and aftermath on:

- **All-Hazard Approach:** In today's VUCA (Volatility, Uncertainty, Complexity, and Ambiguity) world, cascading disasters necessitate an "all hazards approach." Organisations must shift BCP from aiming for "Back to Normal" to assuming a "Back to New Normal" paradigm.
- **Bio-Circular-Green (BCG) Economy:** Thailand promoted the BCG Economy model as a core strategy, using the "Green Enterprise Indicator" to transition SMEs into green entrepreneurs, reduced resource consumption, and fostered green financing.
- **Gender-Responsive STI Initiatives:** The Philippines shared efforts to rebuild local enterprises affected by the COVID-19 pandemic. Initiatives like the Small Enterprise Upgrading Program (SETUP) and the GREAT Women Project ensure that technology adoption and economic empowerment are gender-responsive and inclusive.

Theme 2: Advancing Resilience through STI for Synergy

Experts highlighted the critical role of STI in preparing for and mitigating disasters:

- **ICT and Localisation:** Japan's approach emphasised that ICT tools and enduring digital assets, such as maps, must be simple and accessible, serving to reinforce rather than replace community-led initiatives.

- **Climate Prediction Systems:** The APEC Climate Center showcased the integration of scientific innovations with operational use through a "testbed" and the Climate Forecast Model Evaluation and Management System (CrEMA) to ensure objective verification of seasonal climate predictions.
- **Early Warning Infrastructure:** Chile presented the implementation of "Coastal Sirens" and an Emergency Alert System (SAE), integrating redundant communication channels and new dissemination platforms (social media, SMS, TV) for tsunami and emergency evacuations.
- **Water Infrastructure:** Thailand highlighted the use of AI, IoT, and Big Data to reform water management, combining scientific data with local participation based on Royal Initiatives.

Theme 3: Encouraging DRR and CCA for Climate Change Adaptation on Resilience

Mitigating the impacts of extreme weather on urban areas, several preliminary key environmental challenges for consideration:

- **Urban Green Infrastructure (UGI):** Research from Chile addressed extreme heat in semiarid and Mediterranean climates. Key solutions included identifying plant species with high cooling potential (based on stomatal resistance) and utilising treated greywater (TGW) for irrigation to sustain cooling in water-scarce regions.
- **Energy Vulnerability:** Further research in Chile tackled urban energy poverty linked to firewood usage, proposing an open-access digital platform to help homeowners and policymakers design accurate retrofitting interventions to increase urban resilience.

- **Wildfire and Spatial Planning:** Comparative case studies between Chile and Australia provided insights into integrating new wildfire information into spatial planning systems, emphasizing the need to address barriers in capacities and willingness.

Theme 4: Empowering Resilient Community for Rural-Urban Connectivity

The Whole of Society Resilience required an inclusive, community-based approach:

- **Community Resilience:** Indonesia presented a systemic resilience model focusing on smallholder medicinal plant agribusiness. Highlighting rural-urban connectivity, the research underscored that community adaptive capacity is a foundational pillar for sustainable urban development and stable supply chains.
- **Networking for Capacity Building:** The Climate Adaptation Learning Lab (CALL) has engaged over 250 Global South organisations to co-create actionable insights on extreme heat and human settlements, building safe spaces for dialogue and bridging knowledge systems.

Takeaways

The 2025 APEC Resilience Week highlighted a strong consensus that navigating future climate uncertainties requires holistic policy-led, technology-driven, and community-responsive strategies. Through encouraging actions to build DRR knowledge into people's daily activities and social protection systems, APEC economies involved and benefited from the event will team up a cross-fora force for good toward a resilient, sustainable future on navigating STI for "Leave No One Behind".

Following the consensus reached, the three mission for next step project implementation were summarised:

Science, Technology and Innovation Enablement

Strengthening resilience required a multi-hazard approach for mitigating cascading impact to develop and implement impact-based people-centered risk-informed early warning proactively. With cutting-edge STI institutional capacity, ACTS continued to develop innovative PPP best practices to benefit the member economies on DRR and CCA.

To sum up, the expert meeting and policy dialogue highlighted the mutual interest in partnerships between the public and private sectors in facing disaster risk challenges. DRR and CCA agendas were mutually critical in terms of resilience to multi-hazards community-based DRR. Through strengthening the local capacity on smart STI solution and policy for implementation, APEC member economies enhanced resilience as a whole of society significantly in the timely manner. Meanwhile, the resilient quality infrastructure was highlighted as a cornerstone of planning to mitigate the impacts such as social, weather- and disaster-related challenges.

Building Infrastructure for APEC Resilience City and Community Initiative

APEC highlighted STI to engine the economic growth and encouraged member economies to promote the STI quality infrastructure investment for sustainability. ACTS emphasised the critical role for networking to “Enhancing APEC Resilience through the APEC Open Science Alliance (APECOSA)” highlighted by PPSTI Madam Chair Hazami Habib, Malaysia. APECOSA, a vehicle to carry forward the mission of

sharing the knowledge, research and development, scientific outcomes, technology transfer through PPP, cross-sector, cross-fora, cross-economy collective efforts onward to benefit the APEC in terms of synergy.

Collective STI for DRR and CCA on APEC Resilient City and Community

Emphasised by Dr. Hwanil PARK, PPSTI Host Vice Chair, Senior Research Fellow, Science and Technology Policy Institute, “developing innovative technologies including AI, IoT, drones, big data, etc. and enhancing related capacity of member economies were the key element for DRR and CCA to enhancing proactive emergency preparedness countermeasures in APEC region.” that aligned with the APEC Human Security Agenda for human wellbeing. With strong STI intensive capacity involved, the cross-fora networking effects can nourish DRR and CCA activities and made easy for emergency preparedness under APEC.

Recommendation

For developing future STI smart policy, solution or strategies toward resilient APEC, utilising the capacity from APEC existing centers, institutions and alliance can reduce the preliminary cost and efforts while planning. By buying into the concepts, fruitful outcomes and findings, directly from the lesson learnt or best/good practices among APEC member economy, the decision and policy makers can save time, budget and materials for resilience and efficiency and effectiveness can be ensured. Through the APEC PPP, the comparative and competitive advantage is certain for not going every project from the ground zero. ACTS meeting promoted strategic thinking on STI sharing, enhancing STI through PPP for connectivity and building robust STI networking to ensure a cost-benefit meaningful collaboration under APEC and beyond against future

shock. The target beneficiary always included stakeholders of government officials, academia, expertise, entrepreneur and practitioners from the public and private sectors and the non-governmental organisations in the fields to develop smart climate technology, BCP for supply chain connectivity, disaster risk financing and insurance instruments, and community-based strategy on multi-hazard DRR approach or solutions.

With constructive suggestions and practical interactive discussion among stakeholders involved, the insightful speeches and findings have been summarised with fruitful outcomes as of good reference for structuring the recommendation as per ANNEX C for APEC consideration.

3. CONCLUSION

Dr. Yanling Lee (Sophia) Concluded the 2025 APECRW and identified the common interests under APEC for the next step. The recommendation opened for APEC information and consideration on refining the future cross-border PPP from crisis to resilience.

Bringing the Highlights to the PPSTI 26

Small and Medium Enterprises accounted for more than 90 percent of businesses in the APEC region and employed between 60 and 80 percent of the APEC workforce. APEC Policy Support Unit (PSU) highlighted the important role of SMEs on “the Overview of the SME Sector in the APEC Region” published in April 2020. In light of the rise of the digital economy and trade amidst pandemic spreading, it brought huge business opportunities along with threats and benefits for SMEs coupled with risks. Considering the growing concerns of the “New Normal”, the resilience countermeasures shall have taken into account to upgrade business continuity planning, supply chain resilience, digital resilience, financial resilience, climate resilience amidst pandemic spreading for enhancing human security. Thus, Chinese Taipei promoted “APEC Resilient City and Community Initiatives” under EPWG and PPSTI to support the capacity building activities since 2015.

Furthermore, APEC was facing the cascading effect of natural disasters, climate extremes and pandemic spreading at a time in the APEC region. The pressing common challenges were lay in how to look out for each other in distance. In the past decade, the concept of PPP has been widely applied to facilitate supply chain resilience after the 2011 the Great East Japan Earthquakes and Tsunami” on BCP for SCC. ACT event focused

closely on promoting the PPP collaborations to deal with emerging emergencies and climate extremes through capacity building programme to quick benefit APEC member economies to go through digital transformation for the booming digital economy. The best practices sharing through the smart technology and climate smart agriculture or business across border for collaborations did benefit the APEC family as a whole of society in terms of experience sharing.

ACTS has been shouldering to advocate climate smart policy and solutions, risk-informed early warning systems, digital resilience, capacity building and AI for Good in line with the APEC Disaster Risk Reduction Framework (APEC DRRF). Its activities are widely recognised as cradle of STI capacity building for fostering digital economy in the perspective of facilitating BCP for SCC since 2019.

PPSTI took note of this project aiming at exploring harmonised climate policy towards resilience for socio-economic development and encouraging impact-based and natural-based smart STI solutions for disaster risk reduction (DRR) and climate change adaptation (CCA) through cross-fora engagement for synergy to boost digital economy growth.

3.1 SURVEY RESPONSE

The post event survey (please refer to ANNEX D) was distributed to participants to help better understanding of the strengths and challenges of the event impact and its contributions for capacity building. The total participants were 60 participants (Up to 77% of the participants and 70% of the speakers were female) from 14 APEC member Economies (Canada; Chile; Indonesia; Japan; Republic of Korea; Malaysia; Mexico; Papua New Guinea; Peru; The Republic of the Philippines; Chinese Taipei; Thailand;

United States and Viet Nam + NMP India) with cross fora collaboration among PPSTI, EPWG, SMEWG, CTI, DESG, FMP, SCSC and EGILAT.

APEC Economy Representative Attendance Responded Rate at 85.37%.



Expertise of Diversified Portfolio and Overall Satisfactory Interactive Discussion

The event successfully brought together diverse perspectives, achieving active involvement and high attendance rate. The workshop also demonstrated a strong commitment to gender inclusivity reflected by the relatively high female participation. Overall satisfaction was positive. From Table 1, the highest-rated aspects were the readiness and the capacity of the speakers, with strongly agreeing that experts and facilitators were well prepared. Strongly agreeing that the content was well organised on the structure topics of the event. While the majority approved of the time allocation, a minor 3.7% disagreed, indicating a slight need to allocate more time for schedule optimisation in future events to deepen the discussion in round table dialogue.

Table 1 Summary of Overall Evaluation Results

Question	Strongly Agree	Agree	Disagree
Q1: Objectives clearly defined	63.16%	36.84%	0.00%
Q2: Project achieved objectives	62.16%	36.84%	0.00%
Q3: Topics were relevant	68.42%	13.33%	0.00%
Q4: Content well organised	70.00%	30.00%	0.00%
Q5: Gender issues addressed	73.68%	26.32%	0.00%
Q6: Experts/Facilitators prepared	84.21%	15.79%	0.00%
Q7: Materials distributed useful	67.89%	32.11%	0.00%
Q8: Time allotted sufficient	73.68%	26.32%	3.70%
Survey Analysis: Rating Scale Questions			
Question	5 Very	4 Mostly	3 Somewhat
Open Q1: Relevance to economy	80.00%	14.44%	5.56%
Open Q4: Impactful points (Rating)	72.18%	27.82%	0.00%
Open Q5: Application of knowledge	67.35%	32.65%	0.00%

Project Relevance and Knowledge Impact

The workshop was highly relevant to the attendees highlighted that their economy as either "Very" or "Mostly". Participants highlighted that APEC economies face shared climate risks, making the exchange of successful experiences and STI practices highly adaptable to their local contexts.

The event significantly boosted practical capabilities. Prior to the event, most participants rated their knowledge at a medium level (48.15% rated 3) or mostly high (33.33% rated 4). After participating, **over 96% felt highly capable of applying the knowledge gained**, with 67.35% rating their application readiness as "Very" (5).

Key Learnings and Practical Applications

Participants reported substantial takeaways, specifically bridging policy to implementation. Key learnings included:

- **Integrating new frameworks:** Deeper understanding of digital technologies, the Bio-Circular-Green (BCG) economy and how to complement traditional local knowledge with modern technology.
- **The Quadruple Helix Model:** Recognition that reliance on a single source or sector is unsustainable; tackling climate issues requires active engagement from all parties, especially the private sector and academia.

In terms of workplace application, attendees plan to use this knowledge to draft structured smart policies or solutions for cross-cutting issues. Participants request to know the next step for further implementing STI for Resilience and plan to develop new policy initiatives, organise the capacity building at local and share specific best practices, such

as Japan's insurance policies and the Philippines' resilience initiatives for establishing a primary discussion for PPP policy engagement.

Recommendations for APEC and Future Improvements

Participants highlighted actionable recommendations for APEC' collective actions:

- **Enhance Cross-fora Collaboration at a Strategic Level:** APEC should foster cross-fora sharing to ensure projects align toward common goods at higher level i.e. Ministerial Level Meeting or Forum.
- **Strategic Investments and Knowledge Sharing:** Participants strongly suggested increasing investments in STI and establishing an "**APEC Open Science Alliance**" or a shared DRR (Disaster Risk Reduction) repository to tackle common challenges.

3.2 GENDER INCLUSION

In line with the La Serena Roadmap for Women and Inclusive Growth (2019-2030), this project fully committed to building an environment where all, including MSMEs and women, were empowered to access economic opportunities and contribute to a benefit the APEC as whole of the society.

ACTS encouraged female's active participation and involvement. In particular, this project focused on showcasing women leadership and leading role as experts, speakers, stakeholders, participants and beneficiaries in policy and decision-making (Leadership, Voice and Agency) to nourish the young experts and scientists in the STI for DRR.

In additions, this event aimed to improve female access to STI on equal opportunities to harness STI smart solutions for resilience on capacity building. In every

panel and policy dialogue, ACTS incorporated women in disaster as affected people, local practitioners, emergency responders, entrepreneurs, scientists, researchers, leaders, policy-makers or commanders to led the discussion meaningful in considering different role model for coaching young generation to think in depth and contribute to benefit from women-oriented STI planning for action towards Climate Resilient City under APEC on joint efforts for synergy.

3.3 CAPACITY BUILDING

In line with ACTS ToR and its Mandates, this event responded to the immediate common interests and needs of emergency preparedness for capacity building. Aligned with the Manila Framework, the 2022 Thailand BCGs, and 2021 New Zealand's priority of sustainability on capacity building, this event aimed to synergise the institutional capacity of the existing STI smart policy and solution for sharing regarding: 1) risk-based policy and decision making process: science-based information sharing to activating proactive countermeasures and actions at all DRR phases, and 2) multi-hazard capacity building: PPP engagement for cross-border synergy on connectivity for resilience. The meeting materials were inspiring and made available through APEC project database to share online for engaging future cross-fora STI collaboration activities engagement.

The target beneficiary of the event also including the stakeholders from the public and private sectors of APEC economies as well as non-governmental organisations for protecting trade and investment to pursue sustainable inclusive economic growth on cross-fora collaborations among PPSTI, PPSTI, SMEWG and other related APEC fora on gender balance perspectives. Through the diversified expertise involvement, the event improved the quality knowledge shared for mitigating the impacts of the disasters and

climate crises from policy to practices/actions while implementing PPP for APEC Resilient City and Community.

3.4 NEXT STEPS

The disaster and weather extremes challenges were significantly impacting the local, regional and global economic growth. Economic development and sustainability According to 2023 PSU Annual Report, extensive interruptions to daily livelihood, lifeline systems, critical infrastructure or education crippled APEC and led to the weak business and vulnerable digital economy. Understanding the societal challenges and taking proactive actions was a must for DRR and CCA, ACTS strived to leverage STI smart policy for resilience on enhancing APEC connectivity. In light of the PPSTI 06 2022S project outputs on guiding principles for climate resilient city initiatives, this event received satisfactory feedbacks to aim at contributing to the APEC family on identifying common interests for exploring better STI smart strategies, policy and countermeasures through cross-fora networking for synergy in support of decision and policy making to overcome environmental and societal challenges for a resilient APEC on “build back better” through PPP.

Considering the growing frequency and intensity of the disaster and climate extremes, this event encouraged to share thoughts on integrating climate change information, building innovation capacity to boost Bangkok Goals for Bio-Circular-Green (BCG) economy through public private partnership (PPP) across border on a resilient APEC for build back better (BBB).

This event built upon the robust networking under APEC for resilience. ACTS outreached to engage the cross-fora collaboration to ensure the synergy on common

interests for empower, include and grow. Carry on the fruitful outcomes of APEC funded project - EPWG 03 2017A - Capacity Building and Emergency Preparedness for Sustainable Development at Agricultural Communities Through Plant Back Better (PBB) Initiatives and the key takeaway of EPWG 01 2022S-2022 APEC Disaster Resilience Workshop, Chinese Taipei committed to deliver projects base on “APEC Non-binding Resilient City/Community Guiding Principle” to share the best practices for motivating and encouraging APEC member economy at all levels to keen collaborated for building a robust networking for DRR and CCA in APEC and beyond to promote APEC Resilience City and Community Initiatives. The value shared as best practices on common interests and pressing challenges are documented in the APEC publication to broaden the knowledge sharing and capacity building.

Actions Toward a Resilient Future Together

Collective STI for DRR and CCA on APEC Resilient City and Community

Called upon **government, academia, entrepreneur** and practitioner to champion science for action from **policy-led approach** to **local-driven collaborative STI solutions** through **PPP** in sharing good/best practice over pressing challenges and brainstorming the practical strategies on **STI based DRR** on APEC Resilient City highlighted following critical key areas for cross-sector engagement on consensus:

- STI for Good - DRR **Mission-Oriented** Social Welfare and Security Approach
- Disaster Risk Reduction, Mitigation, Preparedness, Response and Recovery on **Resilience**
- From Policy to Action for Empower Policy Community/Stakeholders Connectivity - Public Private Partnership for Communication

- **Digital Transformation and Technical Transfer** on Smart Cities, Smart Energy, Quality Infrastructure and Infostructure Investment

ANNEX A: WORKSHOP AGENDA

The agenda of the conference can be accessed through the APEC Meeting Document Database (MDDDB) at the following links: [AIMP: Meeting Document Database - Search Results](#)



APEC Resilience Week APEC Meeting on Resilient City –



Navigating the Power of Science and Technology for Resilient APEC (PPSTI 202 2024A)

4-5 August 2025

Incheon, Korea

Meeting Room 115 – 1st Floor

Day 1 – Monday 4 August, 2025	
Registration	
Opening	
This section will provide a brief overview of the work undertaken in APEC to promote the resilience from Challenge to Action. This will involve the perspectives, work in progress as well as strategic approach for collaboration under APEC among PPSTI, PPSTI, SMEWG and etc.	
09:00 – 09:10	1.1 Welcome Address by PPSTI host Economy Hwanil PARK , PPSTI Host Vice Chair, Directorate for Global Strategy, Korea
09:10 – 09:15	1.2 Opening Address Chiu-wen KUO , the Deputy representative of the Taipei Mission in Korea, Ministry of Foreign Affairs, Chinese Taipei

09:15 – 09:20	1.3 Remark by PPSTI Hazami Habib , Madam Chair, PPSTI, Malaysia
09:20 – 09:25	1.4 Remark by Japan Akio SASAHARA , Executive Director, Asian Disaster Reduction Center (ADRC)
09:25 – 09:30	1.5 Cross-fora Message from SMEWG Aaron SYDOR , Vice Chair of SMEWG, Director of Trade and Economic Analysis, Foreign Affairs and International Trade Canada
09:30 – 09:40 Group Photo and Break	

STI High Level Policy Dialogue Enabling Resilient STI Environment for APEC Resilient City	
09:40 – 09:45 5 mins	Team up for building a sustainable tomorrow – STI for challenge and strategy To give a brief overview of the work undertaken in APEC to promote the STI from Challenge to Action. Moderator: Hwanil PARK , PPSTI Host Vice Chair, Directorate for Global Strategy, Korea
09:45- 10:00 15 mins	STI1.1 Plenary Speaker: Malaysia Hazami HABIB , Madam Chair, PPSTI, Malaysia

	Enhancing APEC Resilience through the APEC Open Science Alliance (APECOSA)
10:00-10:15 15 mins	STII.2 Plenary Speaker: The Philippines Romelen TRESVALLES , Regional Director, Department of Science and Technology - National Capital Region Resiliency Through STI
10:15-10:30 15 mins	STII.3 Plenary Speaker: Korea Saebom JIN , Research Professor, National AI Research Lab Healing the “COP”: AI and APIs Reform Disaster and Public Safety Leadership in the Asia-Pacific Region
10:30-10:45 15 mins Q&A	
10:45-10:55 10 mins	Wrap up Moderator: Hwanil PARK , PPSTI Host Vice Chair, Directorate for Global Strategy, Korea
10:55-11:10 15 mins. Tea Break	

Expert Meeting Enabling Science, Technology and Innovation for Resilience	
11:10 – 11:05	Highlight Key Areas on Science, Technology and Innovation Enablement -Adaptive and innovative approaches i.e. artificial intelligence for CCA. The target beneficiaries include government officials, academia, expertise, entrepreneur and practitioners from the public and private sectors as well as non-governmental organisations for protecting trade and investment to pursue sustainable economic growth on cross-fora collaborations among PPSTI and other related APEC with equality perspectives. Moderator: Yanling LEE (Sophia), Secretary General, APEC Research Center for Typhoon and Society (ACTS), Chinese Taipei
11:05 – 11:20 15 mins	EM1.1 Plenary Speaker: India Prerna SINGH, Program Director, Climate Adaptation Learning Lab (CALL), Transitions Research Building Resilience Through Collective Learning and Grounded Innovation
11:20 – 11:35 15 mins	EM1.2 Plenary Speaker: Korea Gaeun KIM, Researcher, APEC Climate Center The Impact of Combined Sea Ice and Snow Cover on Winter Temperature Variability in East Asia: Predictive Skill and Challenges in the Models

11:35– 11:50 15 mins	EM1.3 Plenary Speaker: Peru Odalys Suárez BALCAZAR, Pontificia Universidad Catolica del Peru. Pontifical Catholic University of Peru From Territory to Action - How science and technology can empower disaster management?
11:50 – 12:05 15 mins. Q & A	
12:05– 12:15 10 mins	Wrap up Moderator: Yanling LEE (Sophia), Secretary General, APEC Research Center for Typhoon and Society (ACTS), Chinese Taipei
12:15– 13:30 Lunch	

Panel 1 Science, Technology, Innovation for Sustainable Economic Growth	
13:30 – 13:35	Risk Financing, Resilient Infrastructure and Investment for Micro Small and Medium Enterprises (MSMEs) & Small and Medium Enterprises (SMEs) Empowerment - Establish science, technology and innovation networks and interoperability mechanisms that support MSMEs to manage residual risk and recover from cascading impact of natural disasters, weather extremes and epidemic for resilience. • Sharing experience through public private partnership network for collaboration among stakeholders in multi-sectors to tackle the challenges. • APEC Member Economies' Report

	• Cross-fora Engagements Moderator: Anthony SALES, Regional Director, Department of Science and Technology XI (DOST), The Philippines
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13:35-13:50 15 mins	P1.1 Plenary Speaker: Japan Takahiro ONO, Visiting Professor, Risk Evaluation and Disaster Mitigation Research Division, International Research Institute of Disaster Science (IRIDeS), Tohoku University, General Manager, Tokio Marine Holdings Towards Resilient Society ~ Climate change adaptation
13:50-14:05 15 mins	P1.2 Plenary Speaker: Chinese Taipei Yanling LEE (Sophia), Secretary General, APEC Emergency Preparedness Capacity Building Center (EPCC) Climate Smart Agriculture
14:05-14:20 15 mins	P1.3 Plenary Speaker: Canada Aaron SYDOR, Vice Chair of SMEWG, Director of Trade and Economic Analysis, Foreign Affairs and International Trade Canada Emergency Preparedness for Resilient Business
14:20-14:35 15 min. Q & A	
14:35 – 14:45 10 mins	Wrap up Moderator: Anthony SALES, Regional Director, Department of Science and Technology XI (DOST), The Philippines

14:45-15:00 15 mins. Tea Break	
Panel 2 Bridging the Gap Among Decision or Policy-makers	
15:00 – 15:05	Technology to Enable the Environment for Resilience - Tackle the Increasing frequency and severity of disasters and extreme weather as well as discussing emerging disaster sensitivity of greater metropolitan areas. • What are the possible countermeasures and its application on using modeling & simulation solutions in preparing for and responding to the cascading disaster events? • How to adopt dynamic approach in weather extremes and disasters to safeguard livelihood, business and economic activity. • How to assess Integration of collective efforts & common interests in disaster management, weather extremes, mitigation, adaptation and emergency preparedness? • How can we engage the efficient collaboration on innovative early warning and impact-based forecasting be leverage the academic and research efforts? Moderator: Prerna SINGH, Program Director, Climate Adaptation Learning Lab (CALL), Transitions Research, India
15:05- 15:20 15 mins	P2.1 Plenary Speaker: Chile Sergio VERA, Associate Professor, School of Engineering; Associate Researcher, Research Center for Sustainable Urban Development(CEDEUS), Pontificia Universidad Católica de Chile

	Urban Green Infrastructure for Extreme Heat Resilient Cities in Semi-arid and Mediterranean Climates
15:20-15:35 15 mins	P2.2 Plenary Speaker: Chile Alejandra SCHUEFTAN H., Associate Researcher, Research Centre for Sustainable Urban Development (CEDEUS) Institute of Architecture and Planning, Universidad Austral de Chile Place-based digital tools to address urban energy vulnerability and climate resilience
15:35-15:50 15 mins	P2.3 Plenary Speaker: Chile Jeniffer OLGUÍN, Head of Innovation and Development, Head of Innovation and Development, SENAPRED Technology to Enable the Environment for Resilience Governance to promote Efficient collaboration.
15:50-16:05 15 min. Q & A	
16:05-16:20 15 mins	Wrap up Moderator : Prerna SINGH, Program Director, Climate Adaptation Learning Lab (CALL), Transitions Research
16:20-17:00	Wrap up for Day 1 Highlight of the day - Key Area of the 2025 APECRW Resilience Week APEC Research Center for Typhoon and Society (ACTS), Chinese Taipei To give a brief overview of the work undertaken in APEC for promote the STI from Challenge to Action.

Day 2 – Tuesday 5 August, 2025	
Registration	
09:00 – 09:15	Recap of Day 1 ACTS, Chinese Taipei Yanling LEE (Sophia) , Secretary General, APEC Research Center for Typhoon and Society (ACTS), Chinese Taipei
Capacity Building Policy Dialogue Strengthening Business Continuity and Supply Chain Resilience	
09:15 – 09:20 15 mins	How can the science and technology support disaster risk reduction The importance of integrating resilience in environmental, social, and governance - Harvest the Fruits of DRR Science and Technology to save Lives and Livelihoods How to mitigate the climate/pandemic/economic impact in Asia Pacific region to promote resilience through capacity building including the research findings and lessons learned from recent challenges will be highlighted. It will also showcase how the education system driven approach of the work toward industry, innovation and infrastructure safety and climate resilience for promoting Asia Pacific Resilient City and Communities. This will involve the best practices sharing and work progressed on facilitating decision making support. Moderator: Yanling LEE (Sophia) , Secretary General, APEC Research Center for Typhoon and Society (ACTS), Chinese Taipei
09:20- 09:35 15 mins	CBPD1.1 Plenary Speaker: Thailand

	Wongkot WONGSAPAI, Vice President, Office of National Higher Education Science Research and Innovation Policy Council, Ministry of Higher Education, Science, Research and Innovation Bio-Circular-Green Economy Driving SMEs towards BCG entrepreneurs
09:35-09:50 15 mins	CBPD1.2 Plenary Speaker: Indonesia Suci WULANDARI, Head, Research Center for Social Welfare, Village, and Connectivity, National Research and Innovation Agency (BRIN) Village Resilience as a Pillar of Sustainable Cities: Strengthening Smallholder Agribusiness for Climate Adaptation
09:50-10:05 15 mins	CBPD1.3 Plenary Speaker: Peru Astrid Hassel Criales JOHNSON, Innovation Project Specialist, National Council for Science, Technology and Innovation (CONCYTEC) STI Funding Programs for Resilience-Oriented Innovation
10:05-10:20. 15 mins. Q & A	
10:20-10:30 10 mins	Wrap up Moderator: Yanling LEE (Sophia), Secretary General, APEC Research Center for Typhoon and Society (ACTS), Chinese Taipei
10:30-10:45 15 mins. Tea Break	

Panel 3 Best and Good Practices Sharing

10:45- 12:00	STI for Resilient City through Public Private Partnership Team up for Social, Infrastructural, and Economic Recovery from Disasters Toward Resilient Future This section will showcase the cross-border public private partnership engagement of how to mitigate the disaster/pandemic/economic impact in Asia Pacific region to promote resilience and capacity building including the lessons learned from recent challenges. It will also provide a brief overview of the work toward industry, innovation and infrastructure safety and resilience for promoting Asia Pacific Resilient City and Communities. This will involve the best practices sharing and work progressed on strengthening business resilience to climate and disaster risk, adopt risk disclosure frameworks, promote disaster risk transfer options to facilitating the rapid and effective recovery of the whole of society Moderator: Yanling LEE (Sophia), Secretary General, APEC Research Center for Typhoon and Society (ACTS), Chinese Taipei
10:50- 11:05 15 mins	P3.1 Plenary Speaker: The Philippines Anthony SALES, Regional Director, Department of Science and Technology XI (DOST) Fostering Resilient MSMEs through Gender-Responsive STI Initiatives

11:05-11:20 15 mins	P3.2 Plenary Speaker: Chile María Constanza GONZÁLEZ, Researcher, Research Centre for Integrated Disaster Risk Management (CIGIDEN)(TBC) Resilience to wildfires: Exploring knowledge-to-action gaps
11:20-11:35 15 mins	P3.3 Plenary Speaker: Mexico Anya TINAJERO VEGA, Director for Humanitarian Aid and Risk Management, AMEXCID Private and Social Sector Collaboration on DRR
11:35-11:50 15 mins. Q & A	
11:50-12:00 10 mins	Wrap up Moderator: Yanling LEE (Sophia), Secretary General, APEC Research Center for Typhoon and Society (ACTS), Chinese Taipei
12:00-13:30. Lunch	

Panel 4 Map out for Resilient STI for APEC Resilient City and Community	
13:30-13:35 15 mins	Team up for building the resilient tomorrow – Challenge and Strategy • How to encourage the next generation to team up for building a resilient tomorrow? • Introducing AMGS for APEC Youth Science Award in DRR

	• Youth Science Capacity Building Programs • Grass-root and Gender Empowerment • APEC Member Economies' Report • Cross-fora Engagements This section will showcase the Policy-led disaster risk reduction countermeasure of how to mitigate the disaster/pandemic/economic impact in Asia Pacific region to promote resilience and capacity building including the lessons learned from recent challenges and youth capacity building over resilience for sustainable growth. It will also provide a brief overview of the work toward sustainable development under APEC for promoting Asia Pacific Resilient City and Communities. This will involve the best practices sharing and work progressed on the risk-informed approach and impact-based emergency preparedness. Moderator: Yanling LEE (Sophia), Secretary General, APEC Research Center for Typhoon and Society (ACTS), Chinese Taipei
13:35- 13:50 15 mins	P4.1 Plenary Speaker: Thailand Wongkot WONGSAPAI, Vice President, Office of National Higher Education Science Research and Innovation Policy Council, Ministry of Higher Education, Science, Research and Innovation Resiliency of Water Infrastructure
13:50- 14:05 15 mins	P4.2 Plenary Speaker: Mexico Anyia TINAJERO VEGA, Director for Humanitarian Aid and Risk Management, AMEXCID Cross-fora Gender

14:05-14:20 15 mins	P4.3 Plenary Speaker: Chinese Taipei Yanling LEE (Sophia), Secretary General, APEC Research Center for Typhoon and Society (ACTS) Online Capacity Building
14:20-14:35 15 mins. Q & A	
14:35-14:45 10 mins	Wrap up Moderator: Yanling LEE (Sophia), Secretary General, APEC Research Center for Typhoon and Society (ACTS), Chinese Taipei
14:45-15:00 15 mins. Tea Break	
Round Table Discussion APEC STI Roadmap for Building Sustainable Tomorrow	
15:00-15:05	Moderator: Yanling LEE, Secretary General, APEC Emergency Preparedness Capacity Building Center (EPCC)
16:05-16:15 10 mins	Wrap up 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 designed to refine the future public private collaboration in key areas. Moderator: Yanling LEE (Sophia), Secretary General, APEC Research Center for Typhoon and Society (ACTS), Chinese Taipei

Concluding Summary	
16:15- 17:00 45 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 designed to refine the future public private collaboration from crisis to resilience. Yanling LEE (Sophia), Secretary General, APEC Research Center for Typhoon and Society (ACTS), 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 (MDDDB) at the following links: if applicable

<https://drive.google.com/drive/folders/1dQfoMo3t5eb8ye3q7P22MoVgVlQogOTs?usp=sharing>

[AIMP: Meeting Document Database - Search Results](#)

ANNEX C: RECOMMENDATION

STI for Resilience

The APEC Resilience Week, Incheon, Republic of Korea

5 August 2025

Building Infostructure for APEC Resilience City and Community Initiative

APEC highlighted science, technology and innovation to engine the economic growth to build upon the quality infrastructure. Korea and Chinese Taipei co-hosted the APEC Resilience Week to serve as an excellent networking for cooperation on “Enhancing APEC Resilience through the APEC Open Science Alliance (APECOSA)” said by PPSTI Madam Chair Hazami Habib, Malaysia. APEC Open Science Alliance (APECOSA), a vehicle, to carry forward the mission of local knowledge, scientific outcomes, technology transfer, public private partnership, cross-sector, cross-fora, cross-economy collective efforts onward and benefit the whole of society in terms of synergy.

Collective STI for DRR and CCA on APEC Resilient City and Community

Emphasised by Dr. Hwanil PARK, PPSTI Host Vice Chair, Senior Research Fellow, Science and Technology Policy Institute, “developing innovative technologies including AI, IoT, drones, big data, etc. and enhancing related capacity of member economies are the key elements to reduce the disaster risk and increase emergency preparedness in APEC region.” that aligned with the APEC Human Security Agenda for human wellbeing.

APEC Resilience Week called upon government, academia, entrepreneur and practitioner to champion science for action from policy-led approach to local-led collaborative STI solutions through public private partnership in Incheon. Active participation from 17 economies; **Canada, Chile, India (NMP), Indonesia, Japan, Korea, Malaysia, Mexico, New Zealand, Papua New Guinea, Peru, the Philippines, Singapore, Chinese Taipei, Thailand, the United States and Viet Nam** joint to echo action for good/best practice sharing and address pressing challenges for brainstorming the practical strategies on STI based DRR to facilitate a sustainable APEC community. Cross-fora collaboration among

PPSTI, EPWG, SMEWG, CTI, FMP, SCSC and EGILAT highlighted four critical key areas for cross-sector engagement:

- STI for Good - DRR **mission-Oriented** Social Welfare and Security Approach
- Disaster Risk Reduction, Mitigation, Preparedness, Response and Recovery on **Resilience**
- From Policy to Action for Empower Policy Community/Stakeholders **Connectivity**
- Public Private Partnership for Communication
- **Digital Transformation** and **Technical Transfer** on Smart Cities, Smart Energy, Quality Infrastructure and Infostructure Investment



ANNEX D: POST-EVENT SURVEY QUESTIONNAIRE

APEC Project Evaluation Survey Seminar, Symposium, Workshop

APEC Project Name/Number: PPSTI 202 2024A - APEC Meeting on Climate Resilient City – Navigating the Power of Science and Technology for Climate Resilient APEC

Date: 4-5 August 2025

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

	Strongly Agree	Agree	Disagree	COMMENTS Continue 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: _____

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

Explain: _____

3. 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
APECOSA	APEC Open Science Alliance
APECRW	APEC Resilience Week
BRIN	National Research and Innovation Agency, Indonesia
BCP	Business Continuity Planning
CALL	Climate Adaptation Learning Lab
CCA	Climate Change Adaptation
CEDEUS	Research Center for Sustainable Urban Development, Chile
CIGIDEN	Research Centre for Integrated Disaster Risk Management
CONCYTEC	National Council for Science, Technology and Innovation
DFATD	Foreign Affairs and International Trade Canada
DOST	Department of Science and Technology XI DOST, The Philippines
DRR	Disaster Risk Reduction
EGILAT	APEC Expert Group on Illegal Logging and Associated Trade
EPCC	APEC Emergency Preparedness Capacity Building Center, EPWG
FTAAP	the Free Trade Area of the Asia-Pacific
ICT	Information and Communication Technology
IRIDeS	International Research Institute of Disaster Science, Tohoku University
KGSI	Global Strategy, Korea
MOIS	Ministry of Interior and Safety, Korea
NAIRL	National AI Research Lab, Korea
NXPO	Office of National Higher Education Science Research and Innovation Policy Council, Ministry of Higher Education, Science, Research and Innovation, Thailand
PPP	Public-Private Partnership
PUCP	Pontificia Universidad Catolica del Peru
SCC	Supply Chain Connectivity
SDGs	Sustainable Development Goals
SENAPRED	El Servicio Nacional de Prevención y Respuesta ante Desastres



**APEC Resilience Week
APEC Meeting on Resilient City –**



Navigating the Power of Science and Technology for Resilient APEC

(PPSTI 202 2024A)

4-5 August 2025

Incheon, Korea