

Introduction of APEC Emergency Preparedness Working Group (EPWG)



Wei-Sen Li
Secretary General, NCDR, Taipei
Co-Chair APEC EPWG

APEC Workshop on Scientific Decision Supports for Emergency Preparedness of Natural Hazards

APEC region a highly disaster-prone area



Earthquake
China, 2008



Typhoon
Philippines, 2009



Debris flow
China, 2010



Earthquake & Tsunami
Japan, 2011



Flood
Thailand, 2011

What is EPWG in APEC ?

• 2005~2009 TFEP period



2004 Indian Ocean Tsunami

- Emergency Preparedness Working Group was known as Task Force for Emergency Preparedness (TFEP) in APEC
- In response to 2004 Indian Ocean Tsunami, 18 members attended the meeting of the TFEP, Bali, Indonesia, 2-3 April 2005
- TFEP was established by Senior Officials in 2005 to coordinate and facilitate emergency and disaster preparedness and response within APEC.
- no involvement of emergency relief

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Top priorities of APEC Emergency Preparedness Working Group since 2010

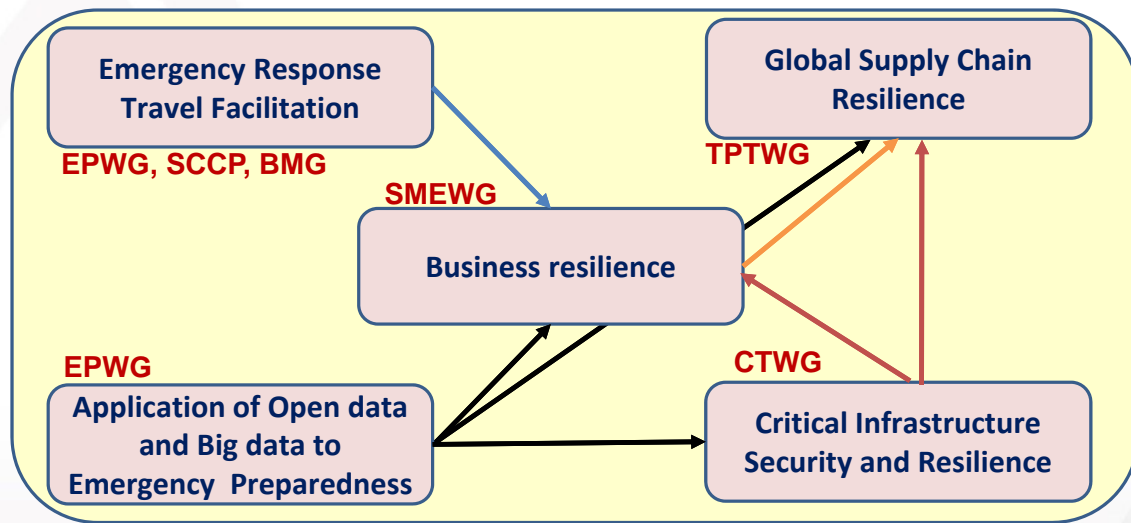
Capacity



- **Business and community resilience**
- **Public-private partnerships**
- Disaster risk reduction
- Cooperation and coordination with regional and international stakeholders
- Preparations for the recovery phase

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Current EPWG's linkage with other APEC fora



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First Initiatives: APEC Workshop on Private Sector Emergency Preparedness in 2011

- The first international workshop after the Great North Eastern Japan Earthquake and Tsunami
- The purpose of workshop is to **enhance capacity in the Asia-Pacific to protect business, trade and economic growth**, as well as communities, from disruption caused by disasters.
- This workshop focus on strengthening **public-private partnership capacity for emergency preparedness and Business Continuity Plan**.

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EPWG working with cross-fora efforts on improving business resilience

• 2012

- Developing Governments' Capacity to Promote and Facilitate the Effective Use of Business Continuity Planning for Disaster Resiliency (EPWG, Australia)
- Train-the-trainer workshop (SMEWG)

• 2013

- APEC Seminar on Capacity Building for Disaster Recovery and Rehabilitation (EPWG)
- Policy Dialogue on Emergency Response Travel Facilitation (ERTF) (EPWG, BMG, SCCP)
- Business Continuity Planning: Policies, Practices and Programs (EPWG, Australia)
- Peer Group Review of BCP booklet/project effectiveness (EPWG, Australia)
- Workshop on Global Supply Chain Resilience (TPTWG, EPWG)
- Train-the-trainer workshop (SMEWG)

EPWG working with cross-fora efforts on improving business resilience

• 2014

- Seminar on Enhancing Regional Supply Chain Resilience to Disasters in APEC (EPWG)
- Improving the Resilience of the Global Supply Chain (TPTWG, EPWG)
- High Level Policy Dialogue on Resilient SMEs for Better Global Supply Chains (SMEWG, EPWG)
- Train-the-trainer workshop (SMEWG)
- *Secure Infrastructure Workshop on Critical Infrastructure Security and Resilience* (CTWG, EPWG)

• 2015

- PEC Policy Dialogue for SME BCP Forum and Workshop (SMEWG, EPWG)
- Workshop on Promoting disaster risk management and hazard mapping to better understand potential risks to the supply chain (TPTWG, EPWG)
- Symposium and Workshop on Improving Resilience in Global Supply Chains (TPTWG, EPWG)

APEC Theme 2013 - 2015



Resilient Asia-Pacific : **Engine of Global Growth**

Shaping the Future through **Asia-Pacific Partnership**

Building Inclusive Economies, Building a Better World

- Building **Sustainable and Resilient** Communities

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Workshop on Scientific Decision Supports for Emergency Preparedness of Natural Hazards (July 27-31, Taipei)

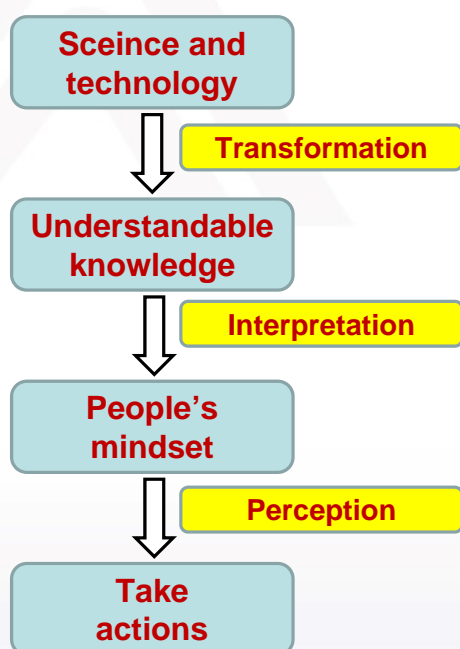
- **Background of the workshop**
 - The importance to deliver evidence-based policy and decision making in times of emergency
- **Aims of the workshop**
 - An efficient communication dialogue among academia, emergency managers practitioners at central, local and community levels to engage public, private and people partnership
- **A joint event endorsed and hosting by PPSTI and EPWG**
 - To invite exporters, researchers, emergency responders and practitioners on bridging diverse groups to deliver the integrated all-hazards approach technology and emergency preparedness
- **Timeline for implementing the project**
 - Venue: Taipei
 - Date: July 27-31, 2015

Workshop Application of Big Data and Open Data to Emergency Preparedness : project aims at

Co-sponsoring economies: Chile, China, Indonesia, Japan, the United States and Viet Nam

- 1 To investigate current status of application and demands of data through a region-wide survey;
- 2 To develop a roadmap of capacity building on assisting member economies in establishing big data;
- 3 To promote open data for creating safer trade environment;
- 4 To formulate a mechanism sharing open data to strengthen emergency preparedness and develop a roadmap to promote.

Workshop Application of Big Data and Open Data to Emergency Preparedness : To meet the following demands



• In order to apply “Big data and Open data” for better emergency preparedness, the major challenges to overcome

1. Volume: overwhelming amount of data sets, how to identify relationship for integration
2. Velocity: during urgent moments, pop-up situations and information could hamper decision making
3. Varsity: different and diverse data sets are required to delivered information or maps by request
4. Verification: duplications or rumors from difference sources need rules and synergy to focus real issues

Four major topics for workshop to cover

• Information intelligence

- Data Organizing
- Data Analyzing
- Data warehousing
- Data Presenting
- “Extract”, “Transform” and “Load”

• Use to big or open data

- Data archives
- Cloud system
- Data format
- Exchange protocols
- Official sites or social media

• Basic type of data sets

- Physical vulnerabilities
- Social vulnerabilities
- Historical events
- Numerical models
- Observations

• Inclusive stakeholders

- Governments
- Research institutes
- NGOs, NPOs
- Media, social media
- Citizens

“APEC Emergency Preparedness Capacity Building Center (EPCC)” Background and Aims

• Background

- Help to secure **sustainable economic development and resilience**
- Minimize the **potential interruptions** from natural disasters or human behaviors

• Aims

- Collecting **regional synergies and resources** to meet the demanding needs of sustainable economic development.
- Implementing **practical and scientific-based** training programs
- Establishing **knowledge database** in disaster risk reduction
- Promoting capacity building through **continuous investments** and joint efforts
- Providing **solid capacity building for better preparedness** to mitigate the impacts brought by natural hazards

Missions and Cross-fora Collaborations

- Missions

1. Hosting **well-structured capacity-building activities**: to support **EPWG mandate**
2. Establishing **knowledge database**: collecting best experiences, science and technology to support **policy and decision making**;
3. Enhancing **public-private-people partnership** in disaster risk management:
4. Building **a win-win networking**: extensively engaging regional efforts and institutions to formulate an interactive learning organization.

- Cross-fora Collaboration among EPWG, SMEWG and PPSTI

- Providing **human capacity investment and technology transfer scheme**
- Seeking collaboration with **PPSTI, SMEWG, TPTWG, TWG, TELWG, ISTWG, CTWG, HWG, ABAC** and regional institutes to ensure the **crosscutting outcomes**.

Operation Timeline

- Jan. 2015:

- Conceptual briefing in the 7th EPWG Working Group Meeting

- May 2015:

- Preparing establishment of EPCC.
- Promoting EPCC operations and up-coming activities in the 8th EPWG Working Group Meeting
- Invite co-sponsorship: Indonesia and the United States have confirmed

- Jun.-Aug. 2015:

- Preparation and seek full inter-sessional endorsement

- Sep. 2015:

- Producing Outcomes Paper of 2015
- Announcing 2016 Activities in the 9th SDMOF.

- Oct. 2015

- EPCC in operation (to be confirmed after agreement by APEC members)

Thanks

Welcome your attention