

# **Introduction of APEC Emergency Preparedness Working Group (EPWG)**



**Asia-Pacific  
Economic Cooperation**

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

13th Meeting of the IRDR Science Committee, Qingdao, Shandong Province, China

# 21 APEC member economies



# 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 ?



2004 Indian Ocean Tsunami

- **2005~2009 TFEP period**

- 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

# From TFEP to EPWG

- **On February 23, 2010, in Hiroshima, Japan**

- the First Senior Officials' Meeting, the Task Force was approved to be upgraded to a permanent working group.

- **On June 2, 2010, in Sapporo, Japan**

- During the second meeting of the SOM Steering Committee on ECOTECH (SCE), the Terms of Reference (ToR) of the Emergency Preparedness Working Group (EPWG) and
- 2010-11 EPWG Co-Chairs: Australia and Indonesia
- 2012-13 EPWG Co-Chairs: Chinese Taipei and Viet Nam
- 2014-15 EPWG Co-Chairs: Chinese Taipei and Japan

- **Who participates EPWG**

- Government side: Officials of disaster management, emergency responders, diplomats, and ....
- Academia: research institutes, researchers
- Regional institute: UNISDR, UNOCHA, World Bank, ADRC, ADPC, PDC, APCC...
- NGOs, NPOs, Practitioners

# Top priorities of APEC Emergency Preparedness Working Group since 2010

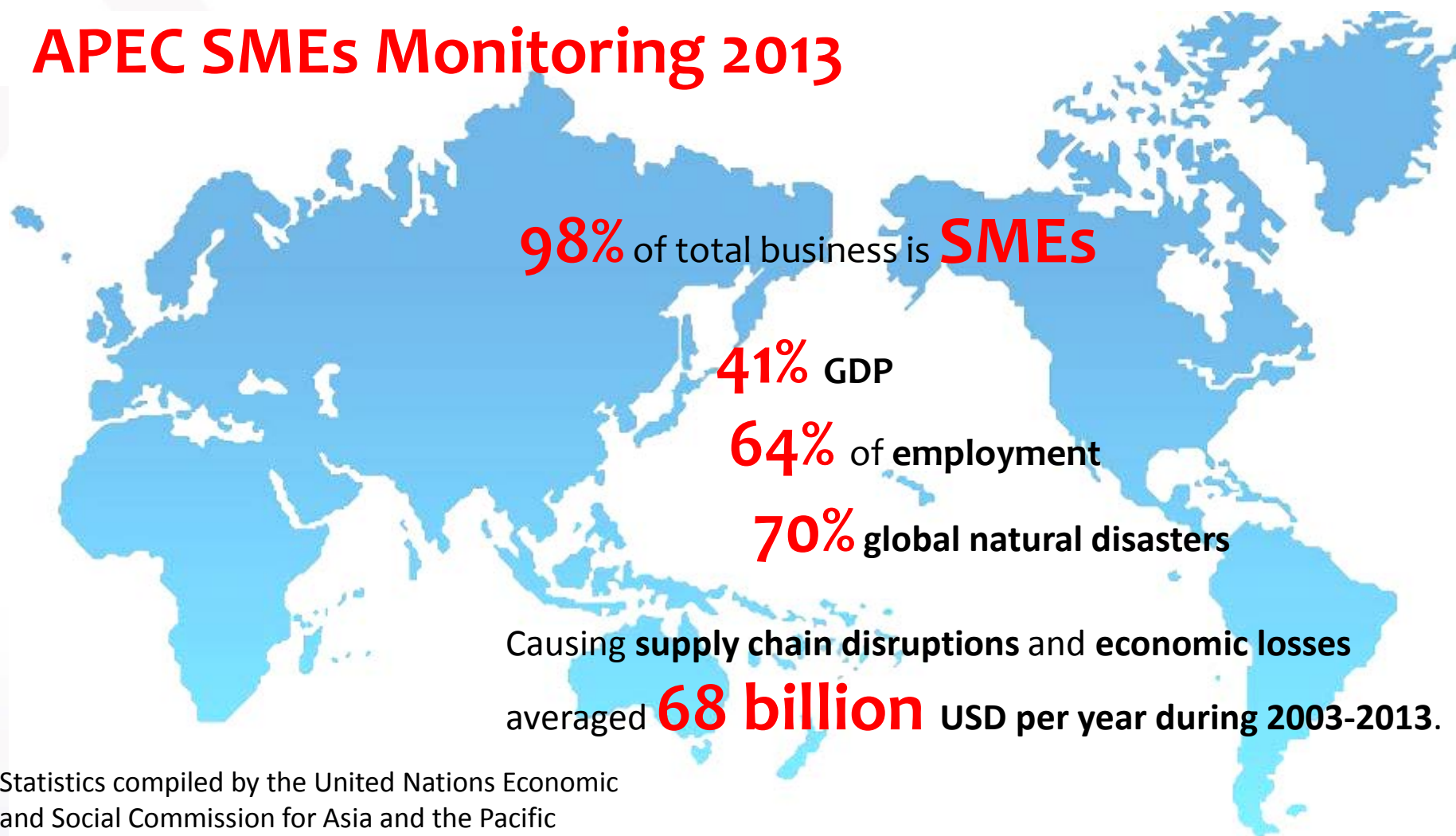
## Capacity



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

# APEC SMEs at a glance

## APEC SMEs Monitoring 2013



Statistics compiled by the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP)

# Importance of SMEs in the APEC regions

over 97% of enterprises in APEC are SMEs



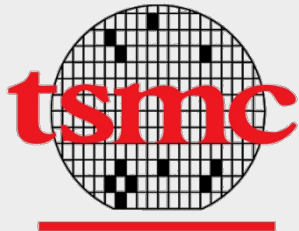
- 99-100%
  - 13 of 21 APEC member economies



# 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**.

RENESAS



青い星、地球を守るためのエネルギーが溢れています。  
SUZUKI 鈴木工業株式会社



Microsoft®

  
PRUDENTIAL

Raytheon  
*Customer Success Is Our Mission*

# 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

2013

APEC Theme

---

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

---

2014

APEC Theme

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

---

2015

APEC Theme

Building Inclusive Economies, Building a Better World

- Building **Sustainable and Resilient** Communities

# Project Milestones



## Preparation and Research

**2012/7/11~12**  
Focal Point Network Meeting and Expert Meeting

**16 Economies, 21 Experts and 300+ Participants**

**July 11<sup>th</sup>~12<sup>th</sup>, 2012**



## Train the Trainer

**August 5<sup>th</sup>~9<sup>th</sup>, 2013**  
2013/8

APEC Train-the-Trainer Workshop on Promoting SME BCPs

**16 Economies, 20 Experts, 44 Seed Trainers and 400+ Participants**



## Dissemination

**March 24<sup>th</sup>, 2014**



# Summary of 4 Year Project (2012-2015)



Promotion of SME BCP being Selected as top 10 APEC Photo Journal:  
Charting 25 Years of APEC Progress  
<https://www.facebook.com/APECnews>

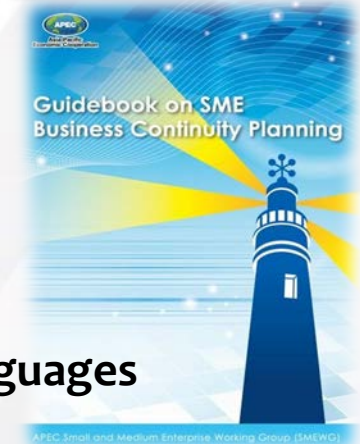
**6** Economies



**30,000+**  
Subscriptions



Scenario Checking  
**10** steps based on  
ISO22301



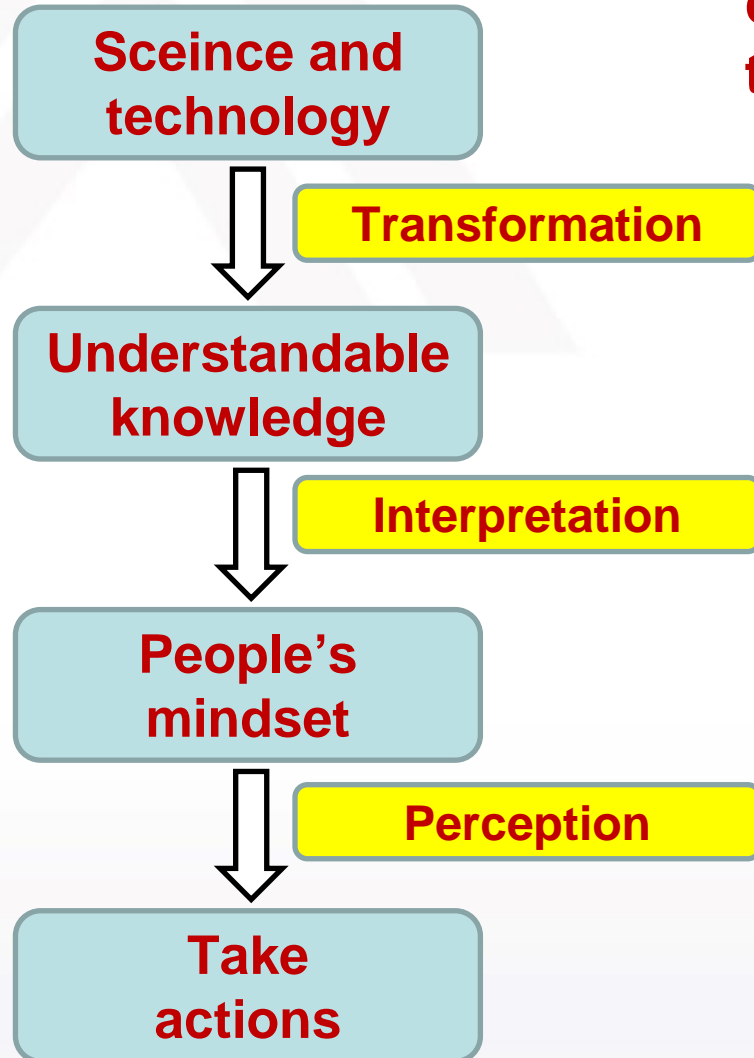
**7** Languages

# 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. **Variety:** 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

# Workshop Application of Big Data and Open Data to Emergency Preparedness :

## Target topics to cover in coming years

- **NOGs**
  - **Risk communication** at communities
  - Easily understandable
- **Evacuation**
  - To tell routes, shelters and risk potential
  - Clearly to take actions
- **Emergency operation**
  - Decision making, **common operating picture**
  - Integrated products
- **Risk assessment**
  - To be reference of insurance or **risk identification**
  - Prepare for multiple hazards
- **Urban planning and land use**
  - To control risks
  - Sustainability
- **Business continuity plan**
  - To protect employees, estates and profits
  - Private sector's involvement
- **Drill**
  - To set up scenarios with different levels of risk
  - Connect all stakeholders
- **Making plans**
  - To enhance resilience, preparedness, responses and recovery
  - **Before, during and after a disaster**

# 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**

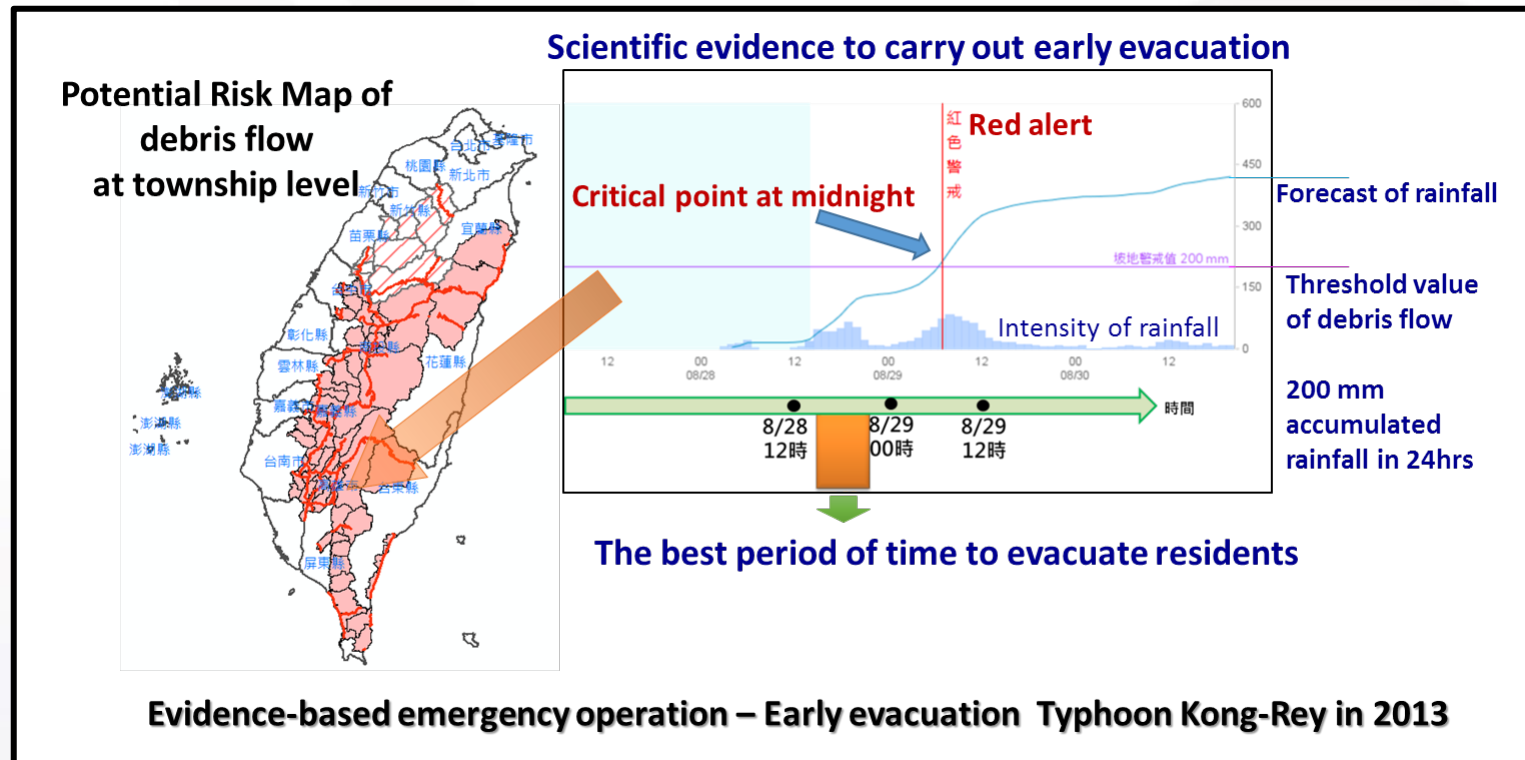
- To invite exporters, researchers, emergency responders and practitioners on bridging diverse groups to deliver the integrated all-hazards approach technology and emergency preparedness

- **Timeline for implementing the project**

- Venue: Taipei
- Date: July 27-31, 2015

# Workshop on Scientific Decision Supports for Emergency Preparedness of Natural Hazards: Aims of the workshop

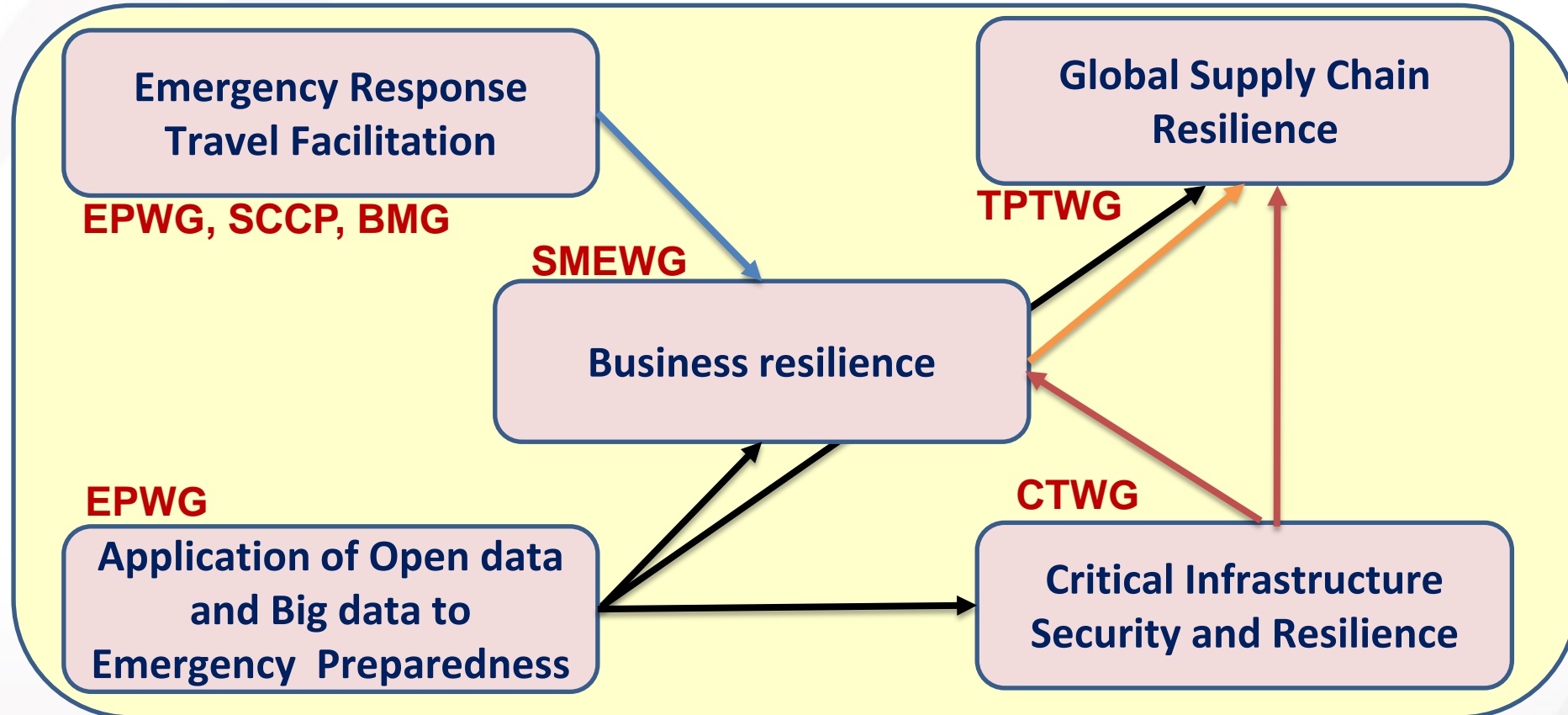
- In addition to having hardworking emergency responders and stakeholders
  - science and technology support gradually plays an essential role for decision makers in delivering decisive, timely and comprehensive solutions.



# Workshop on Scientific Decision Supports for Emergency Preparedness of Natural Hazards: PPSTI and EPWG

- **This workshop will invite**
  - exporters, researchers, emergency responders and practitioners to illustrate the policy making and implementation on integrated technology and emergency preparedness
- **The cross-cutting collaborations and efforts from academia, government and community**
  - To improve broader participation,
  - To facilitate efforts on knowledge-based innovation,
  - To benefits the decision makers and the general public in need,
  - To ensure better preparedness prior, during and post disasters
- **target audiences**
  - Researchers, disaster managers, emergency responders, government officials, practitioners and etc.

# Further comprehensive collaboration on business resilience through regional synergy



**Thanks**

**Welcome your attention**