



**Asia-Pacific  
Economic Cooperation**

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**2017/SOM1/EPWG/021**  
Agenda Item: 7.2.2

## **Innovations and Investments on Science and Technology for Disaster Risk Reduction**

Purpose: Information  
Submitted by: Chinese Taipei

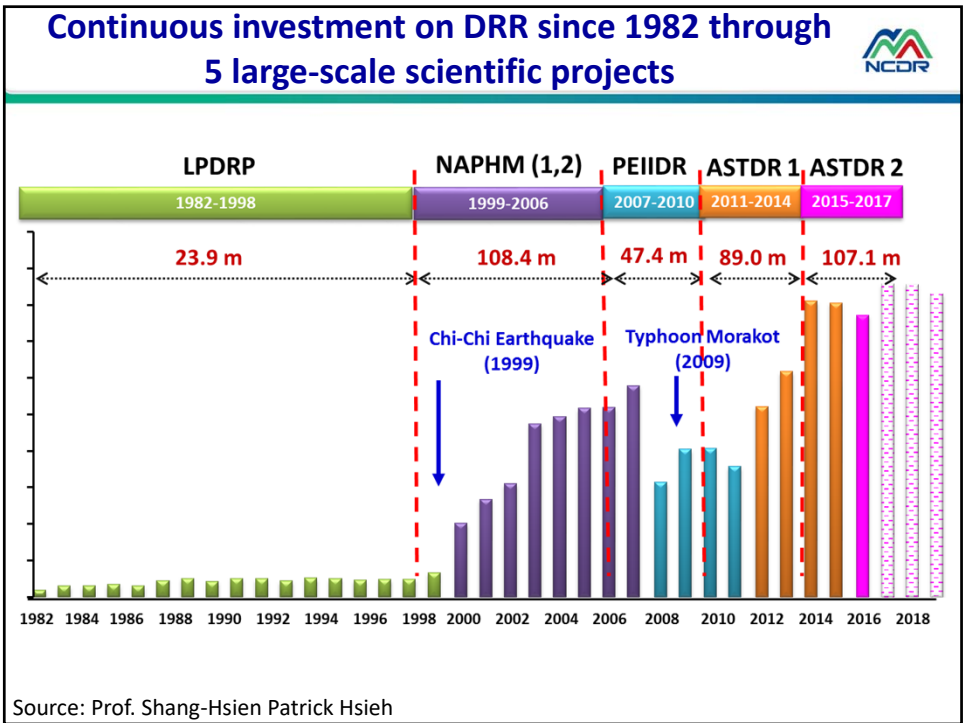


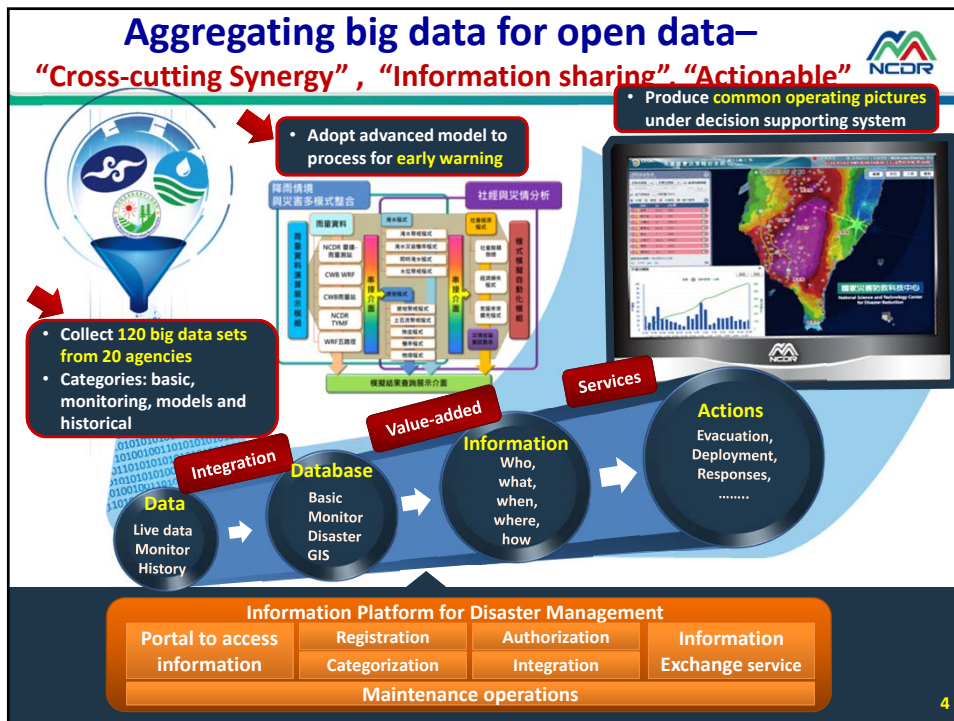
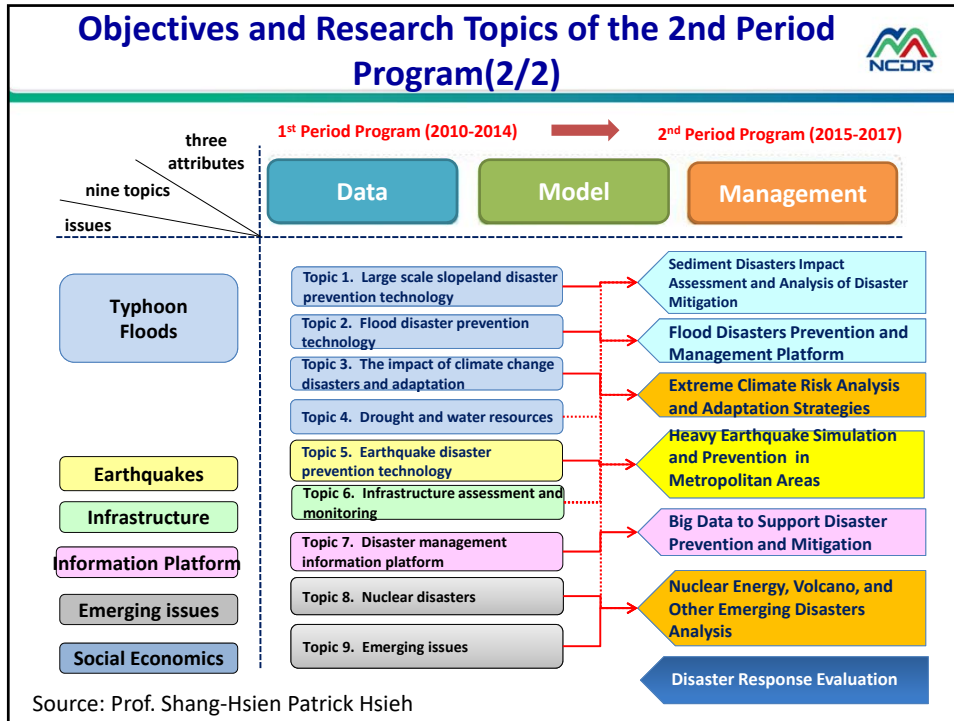
**11<sup>th</sup> Emergency Preparedness Working Group  
Meeting  
Nha Trang, Viet Nam  
18-19 February 2017**




## Innovations and investments on science and technology for disaster risk reduction - Chinese Taipei

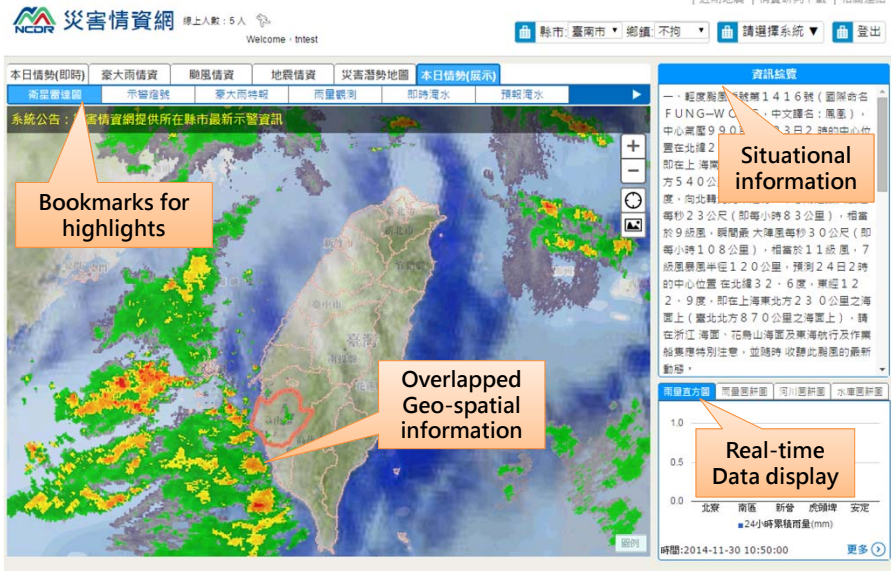
11th APEC Emergency Preparedness Working Group Meeting 2017/02/18






### Common Operating Picture through Web-GIS platform to bridge information gap at local level



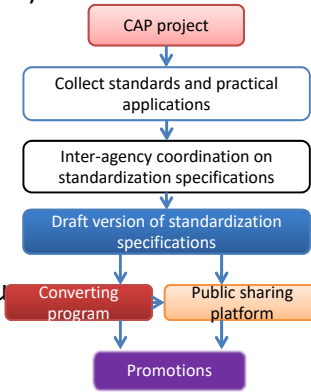


The screenshot shows the NCDR Disaster Information Network (災害情資網) interface. It features a top navigation bar with various disaster-related categories like 'Today's Situation (Real-time)', 'Heavy Rain Information', 'Typhoon Information', 'Earthquake Information', 'Disaster Potential Map', and 'Today's Situation (Forecast)'. A central map displays weather data over Taiwan, with callouts pointing to specific features: 'Bookmarks for highlights' (pointing to a red circle on the map), 'Overlapped Geo-spatial information' (pointing to the map area), 'Situational information' (pointing to the right-hand text panel), and 'Real-time Data display' (pointing to the bottom right data table). The right panel contains detailed text about a typhoon (FUNG-WU) and a table showing 24-hour accumulated rainfall for various locations.

### Development of CAP since 2013 - pave base for PWS




- **Introduce “Common Alerting Protocol”**
  - Encoding specifications (agency code, event code, zone code, valid duration, etc.)
  - Location-based warning
- **Develop integrated services**
  - Share disaster information and alerts through a open data platform
  - Offer services through several channels
- **Promote standardized alerts**
  - Industry, government and academia value added application
  - Host CAP APPs contest
  - Organize CAP conference





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graph TD
    A[CAP project] --> B[Collect standards and practical applications]
    B --> C[Inter-agency coordination on standardization specifications]
    C --> D[Draft version of standardization specifications]
    D --> E[Converting program]
    D --> F[Public sharing platform]
    E --> G[Promotions]
    F --> G
    
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## Open Data Platform for Disaster Information (CAP format)









Combine 14 kinds of alerts from DGPA, CWB, SWCB, WRA, THB, TRA, THSRC and etc.

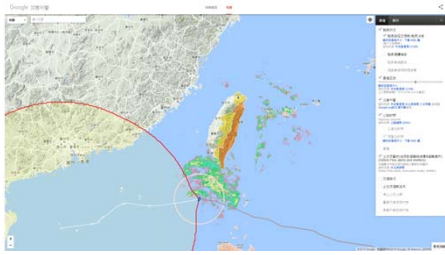
Released a total of 14 categories of instant supporting information

## Public-Private Partnership - sharing info on the Google platform

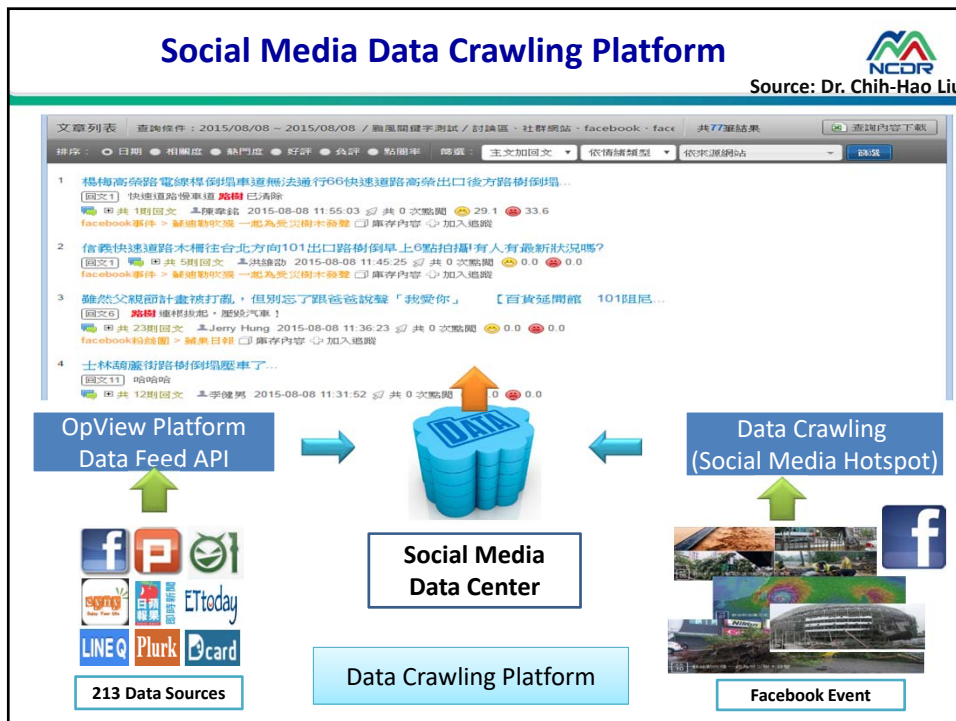
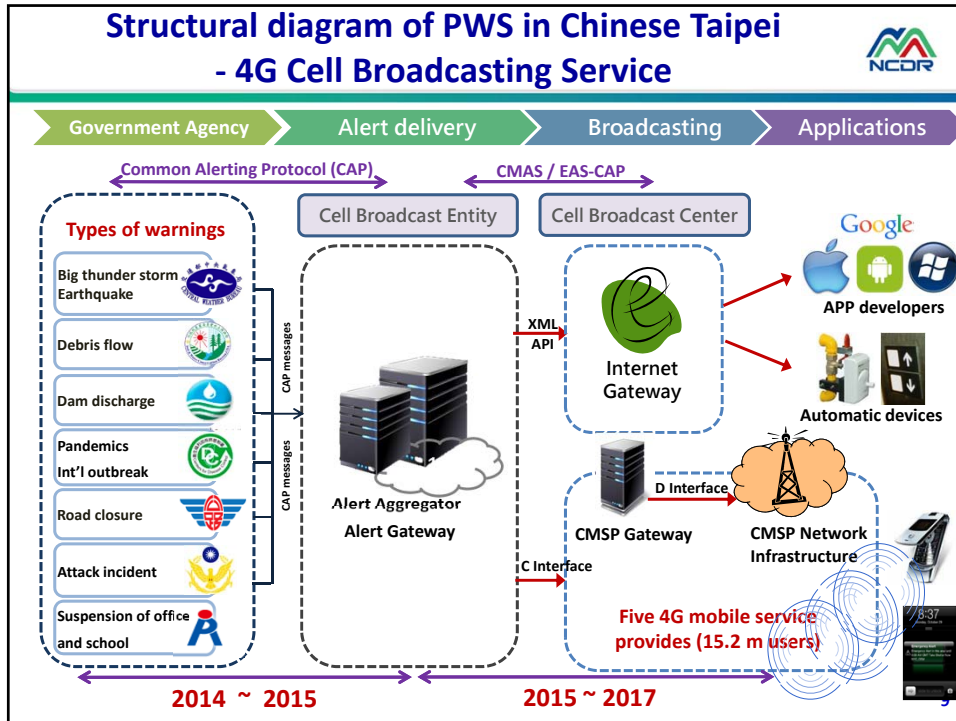


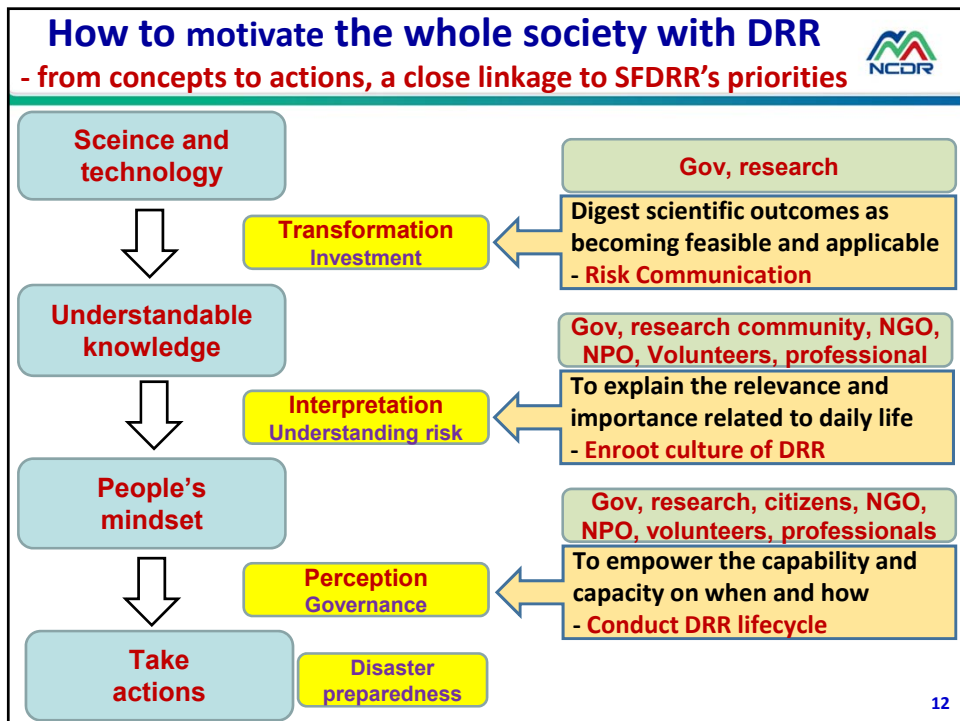
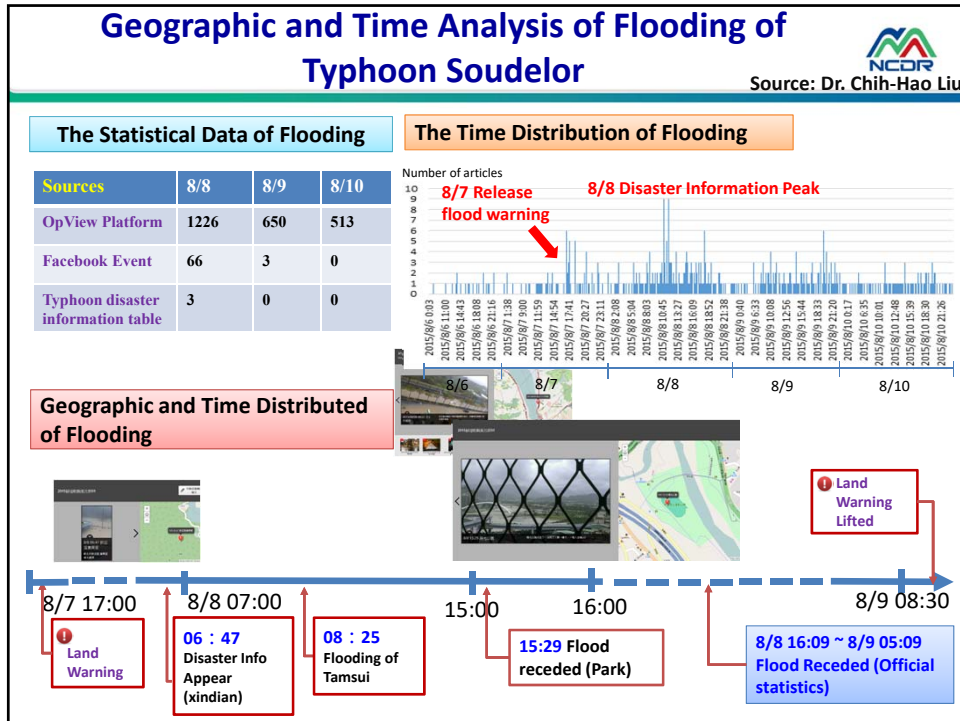
- Industry, government, academia and personal APP developer, all apply for interfacing alert data
- Google Public Alert started in 2013/07/10, **1.3 million user access**
- In 2014, **12 million user access**
- In 2015, **16 million user access**
- In 2016, **19 million user access**
- To accumulate surges of users by **engaging private sector's capacity**





Typhoon Aere, 2016/10/06







**Thanks  
for  
your attention**