PLATFORMS ON WATER RESILIENCE AND DISASTERS FOR SOCIAL SUSTAINABILITY

Noriyuki MORI

International Centre for Water Hazard and Risk Management (ICHARM),
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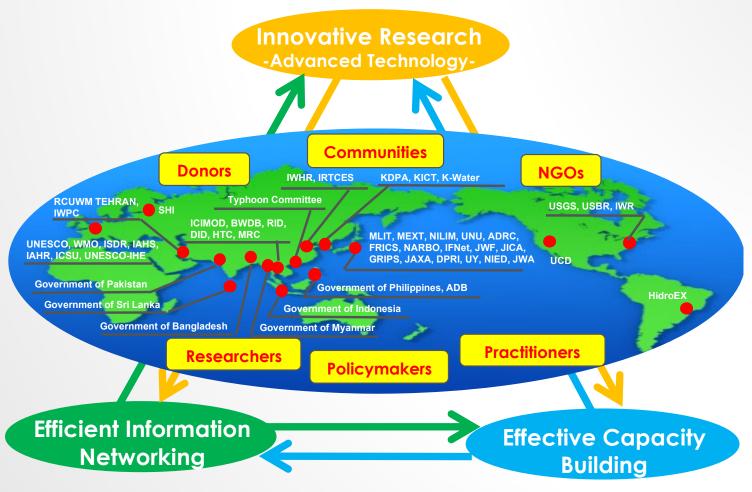






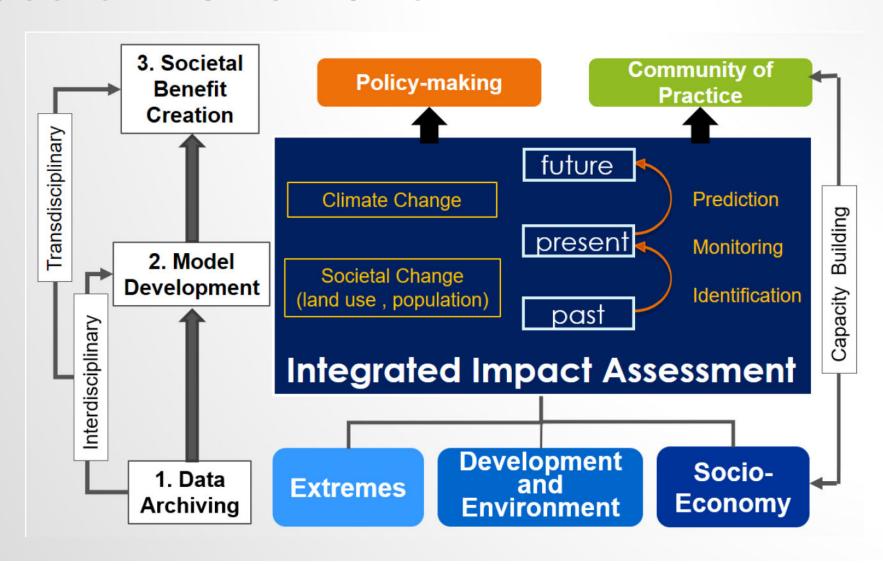
ICHARM 3 missions





Implementing projects by practicing localism through Online Synthesis System for Sustainability and Resilience (OSS-SR)

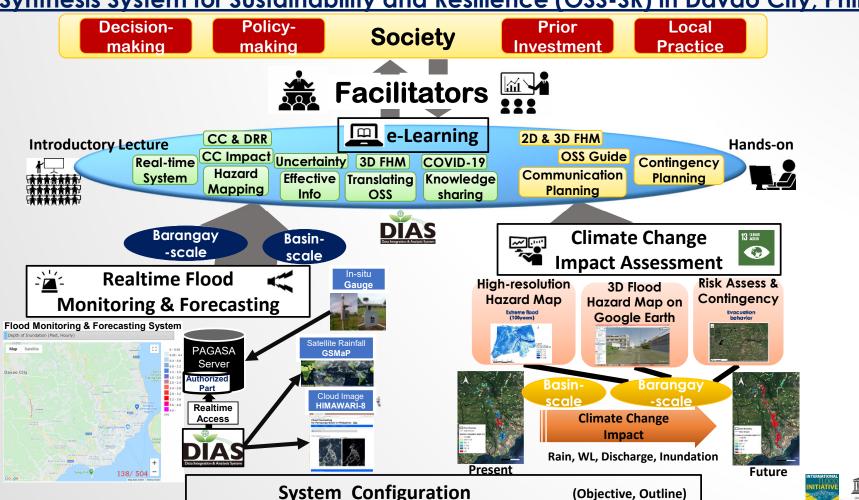
OSS-SR FUNCTIONS



PLATFORM IN THE PHILIPPINES

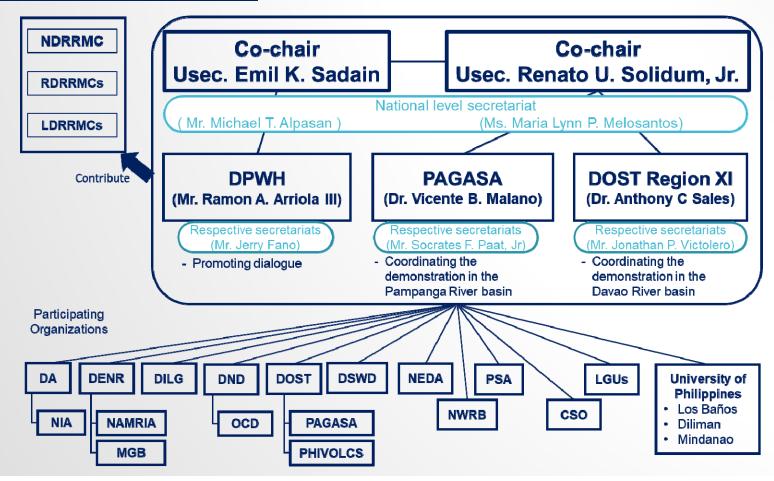
PLATFORM IN THE PHILIPPINES

Online Synthesis System for Sustainability and Resilience (OSS-SR) in Davao City, Philippines



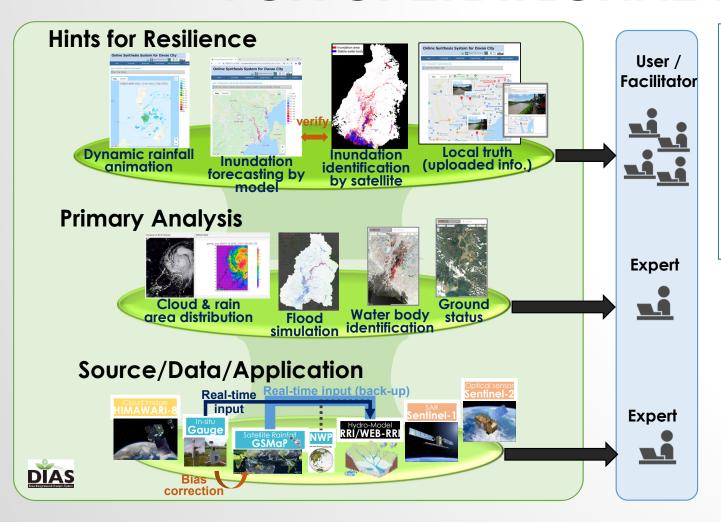
PLATFORM IN THE PHILIPPINES

Institutional Platform



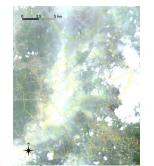


PHILIPPINE OSS: FLOOD FORECASTING FOR OPERATIONAL EWS

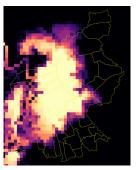


A robust flood forecasting system by the mobilization of all available data/input has been developed in OSS-SR.

The information provision mechanism consists of 3 layers as illustrated in the figure. GSMaP, a satellite-based rainfall, serves as a **backup input** to sustain flood forecasting even if ground gauge rainfall is not available.







Simulation

Comparison of inundation during Ty. Noru, 2022

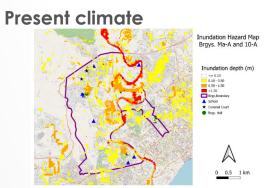
TRAINING WS AND DELIVERABLE

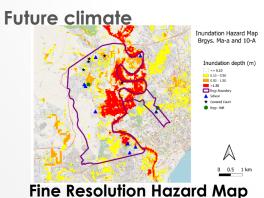
Participants from Different Disciplines

| Discipline | 1st WS | 2nd WS |
|----------------------------|--------|--------|
| National Government | 11 | 10 |
| Local Government | 2 | 4 |
| Academe | 11 | 13 |
| Civil Society Organization | 1 | 2 |
| Private Sector | 2 | 1 |
| Media | 2 | 1 |
| TOTAL | 29 | 31 |



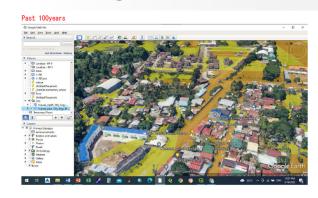
Deliverables of Training







Birds-eye view hazard map





3D Hazard Map



Inundation depth with their houses

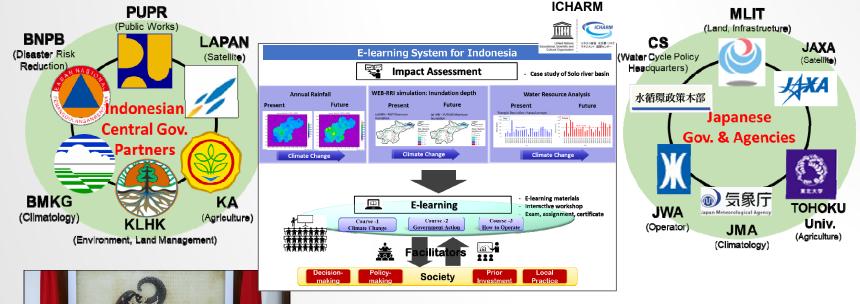


Discussion among participants

PLATFORM IN INDONESIA

E-LEARNING & WORKSHOPS IN INDONESIA

✓ In order to strengthening disaster resilience and achieving sustainable development under climate change in Indonesia, ICHARM with Japanese government agencies implemented e-learning & workshops.



-Opening Session-Video message from the Minister Basuki, PUPR

Curriculum

- Four (4) lectures on Climate Change (CC)
- Five (5) lectures on Government Action (GOV)
- Four (4) lectures on Operation (OP)

Schedule

- October 5, Opening Session & CC introduction
- October 12, Workshop Session-1 & GOV introduction
- October 19, Workshop Session-2 & OP introduction
- October 26, Workshop Session-3 & Assignment
- · November 5, Closing Session

The one-month e-learning course completed on Nov. 5.

32 experts from 6 organizations successfully got the certificated



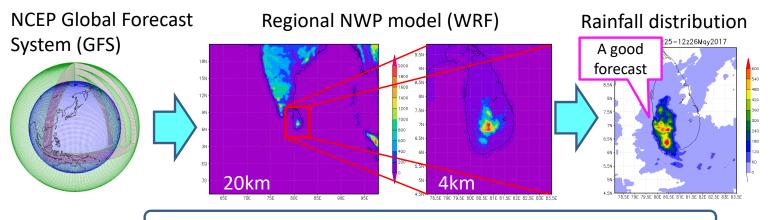




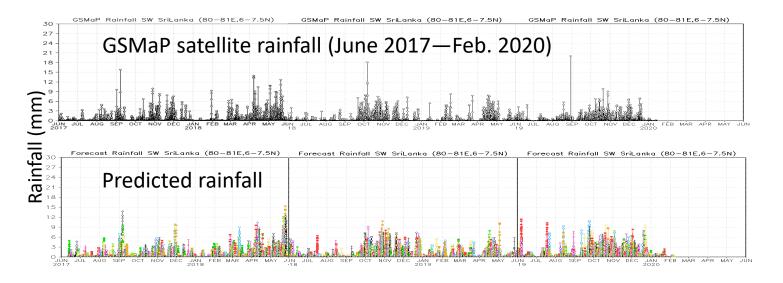


PLATFORM IN SRI LANKA

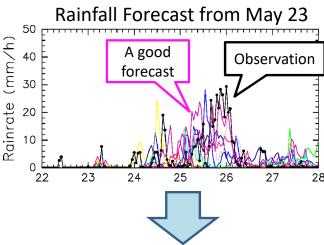
Sri Lanka OSS: Numerical Model setting



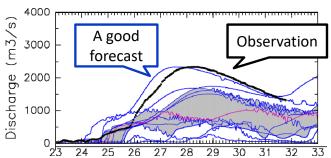
Forecast from 18UTC for 72hours is available at around 01UTC next day.



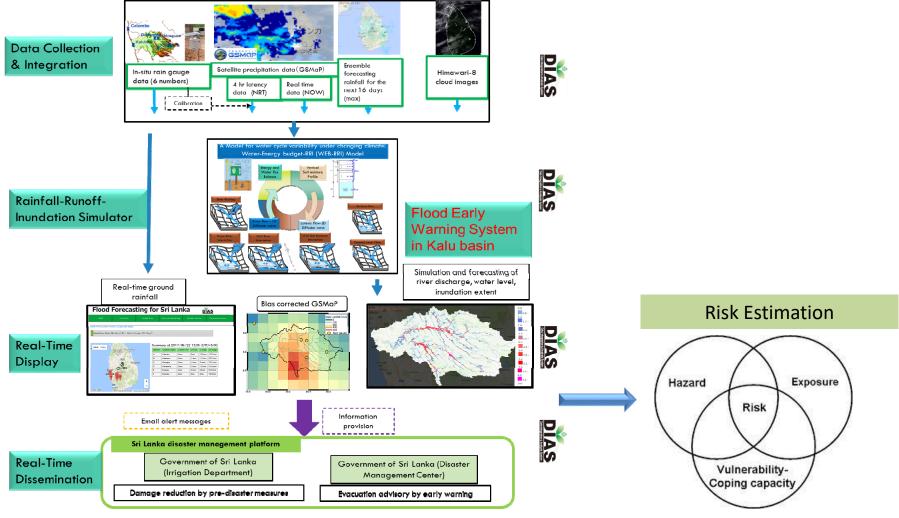




Discharge Forecast from May 23, Putu



Sri Lanka OSS: Flood Forecasting System



http://ff-srilanka.diasjp.net

PLATFORM IN SRI LANKA



2nd Plenary Session of the Platform on Water Resilience and Disasters under IFI



3rd Plenary Session of the Platform on Water Resilience and Disasters under IFI



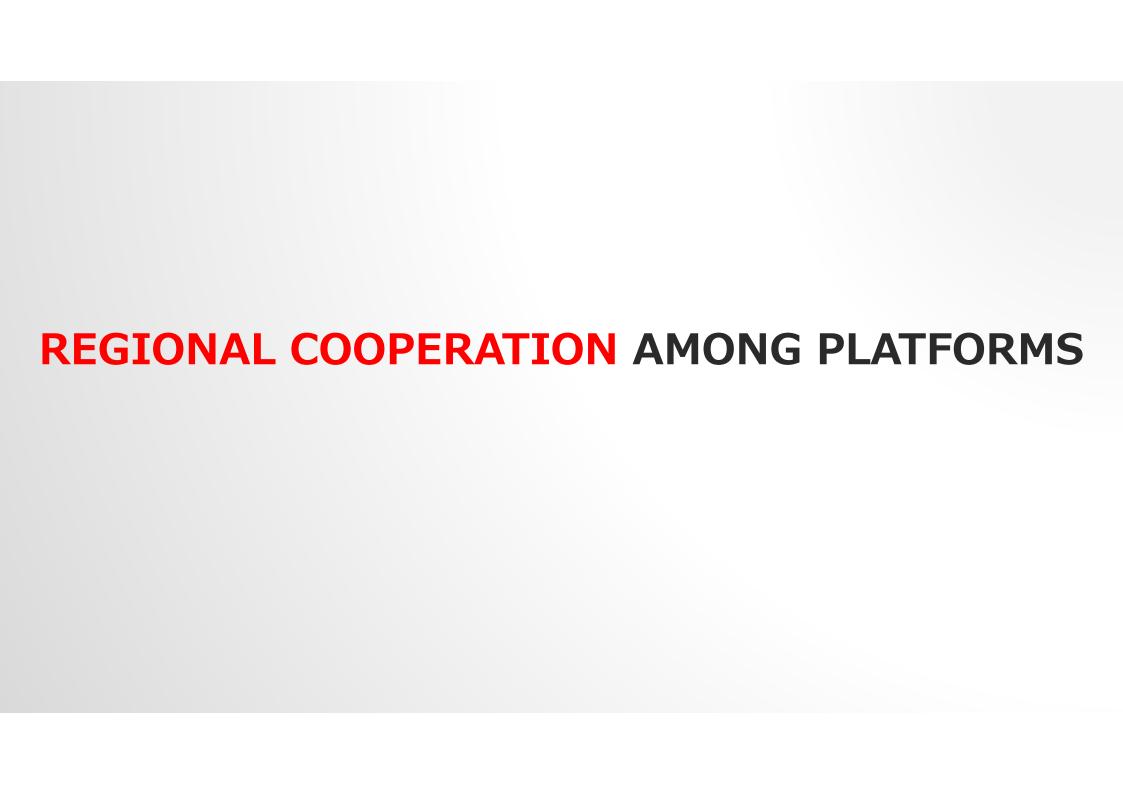
2nd Plenary Session of the Platform on Water Resilience and Disasters under IFI

Participating Stakeholders

- Irrigation Department
- •Disaster Management Center
- Meteorological Department
- National Building Research Or ganization
- Mahaweli Authority



4th Plenary Session of the Platform on Water Resilience and Disasters under IFI



Regional Cooperation through AOGEO

(Asia-Oceania Group on Earth Observations)





September 21 2022, ONLINE



October 24-26, 2018, Kyoto, JAPAN



November 3, 2019. Canberra, Australia,



2022 AOGEO Statement (excerpted)

By enhancing the functions of the OSS-SR and the Facilitators and promoting water cycle consilience, Asian Water Cycle Initiative (AWCI) will continue to support the Platforms and their cross-sectoral decision making at local to national levels in order to promote transformation into quality-oriented societies that are resilient, sustainable, and inclusive.

October 29 2021, ONLINE



February 26 2021, ONLINE



