

Masterclass on Disaster Mitigation, APAN44,  
30 & 31 Aug. 2017, Dalian, China

# International Flood Initiative

- Implementation of a new strategy to reduce  
flood risk in Asia and the Pacific -

**Mamoru Miyamoto**

Executive Manager of IFI secretariat  
ICHARM



## International Flood Initiative (IFI)

International Flood Initiative (IFI) is a joint initiative in collaboration with **UNESCO (IHP), WMO, UNISDR, UNU, IAHS** and **IAHR**. ICHARM is the secretariat of IFI.

*In Close Collaboration with:*

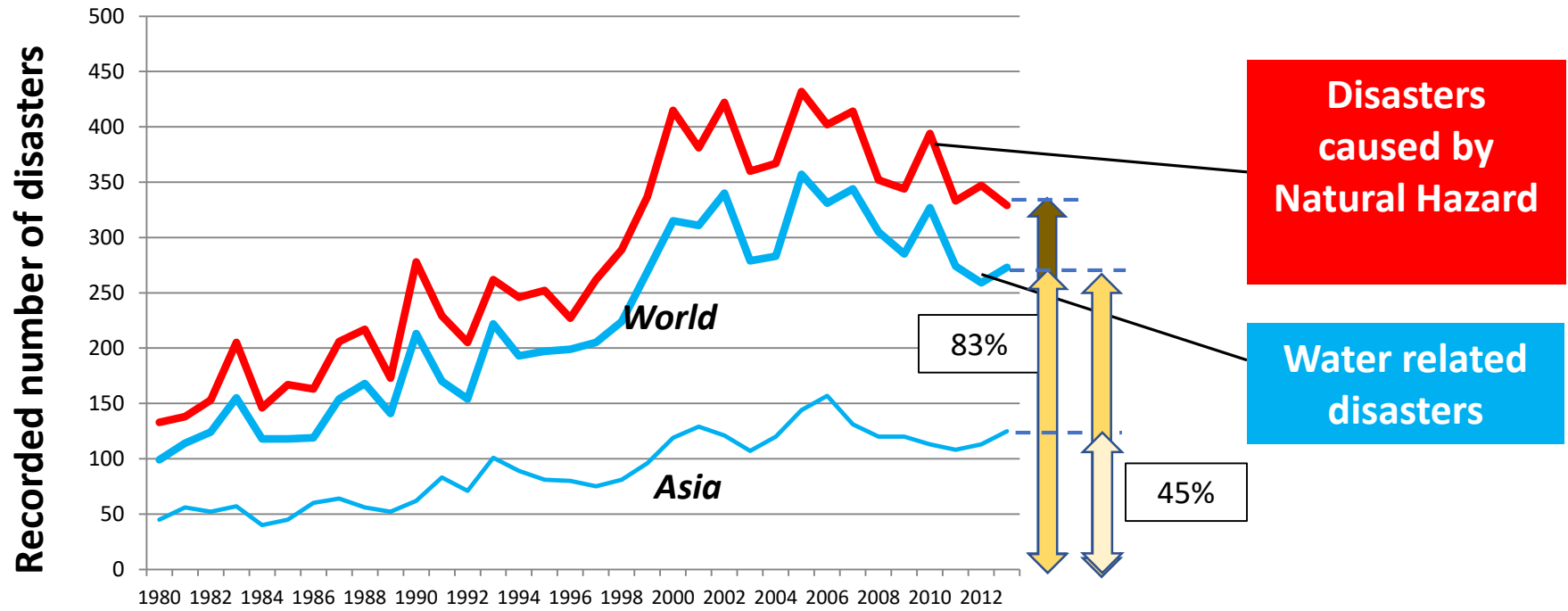


# Increase in water-related disasters

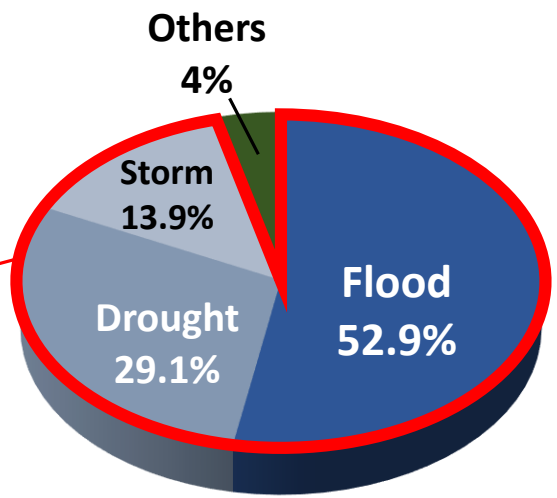




# Increasing & Evolving Disasters (1980 – 2013)



## Affected people by disasters (1980 – 2013)



**Water related disasters**  
**96%**

Original data : EM-DAT (The OFDA/CRED International Disaster Database, Université Catholique de Louvain, Belgium) CHARM, 2014

# Necessary activities

1. To think **how to mitigate damage** caused by water-related disasters which have been increasing and intensifying recently **considering challenges in the regions**
2. **Development and improvement of** hydrological/hydraulic **models** and **methodologies** for **analysis** of flood/drought phenomena in consideration with **climate change** and actual operation in the countries.
3. To support **Local Practices** with **Capacity Building**

# Two critical points for Flood Early Warning

Two critical components :

## 1. Forecast lead time

Lead time is a preparation time we can make necessary mitigation activities before flood damage occurs after being informed of a warning

## 2. Forecast accuracy

- Onset of flooding
- Peak discharge (magnitude)
- Duration of flood

# Flood Forecasting for Early Warning

## Forecast lead time



HOURS

DAYS

WEEKS



Increasing forecast lead time, increasing potential response and loss reduction

# The journey of the IFI initiative

May: XIVth **WMO Congress** welcomed the initiative and suggested to establish a joint UNESCO/WMO Committee on Floods. The proposed ICHARM will constitute a global facility for this programme.

**18-22 Jan 2005**  
**Inauguration of IFI at**  
**WCDR in Kobe**  
WMO/UNESCO/UNISDR  
/UNU

**2003**

**2004**

**2002**

17-22 Jun : **15th UNESO-IHP IGC Resolution** XV-14 on Joint UNESCO/WMO Programme on Floods

- > 12-14 Jul : **Preparatory meeting in Tsukuba**  
A joint UNESCO/WMO task team (6 members) produced a **concept paper** "The Joint UNESCO/WMO Flood Initiative (JUWFI)"
- > 20-24 Sep : **16<sup>th</sup> IHP-IGC** approved the concept paper and renamed as "The International Flood Initiative (IFI)".
- > 20-29 Oct : **12th WMO CHy** discussed the Concept Paper

*In Close Collaboration with:*



International Strategy  
**ISDR**  
for Disaster Reduction



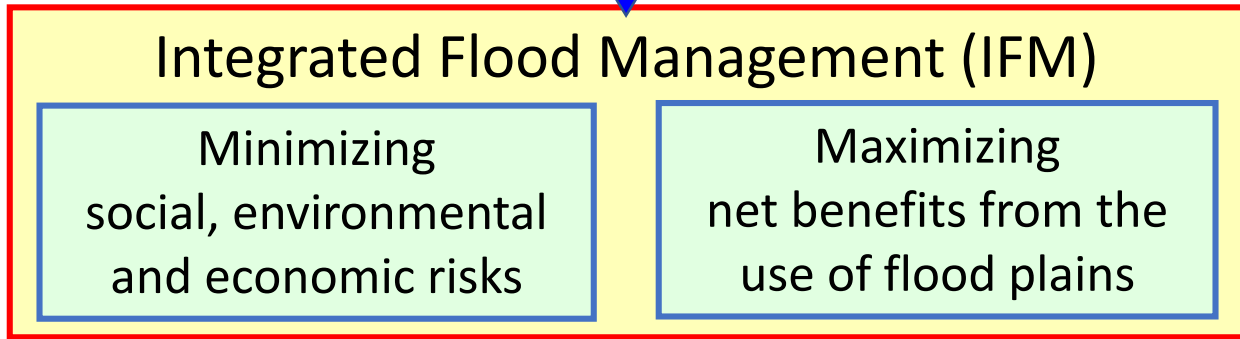
UNITED NATIONS  
UNIVERSITY



# IFI Strategic Structure

*Integrated Water Resources Management (IWRM)*

Sendai Framework  
SDGs  
Paris Agreement



*Expected Stakeholders*

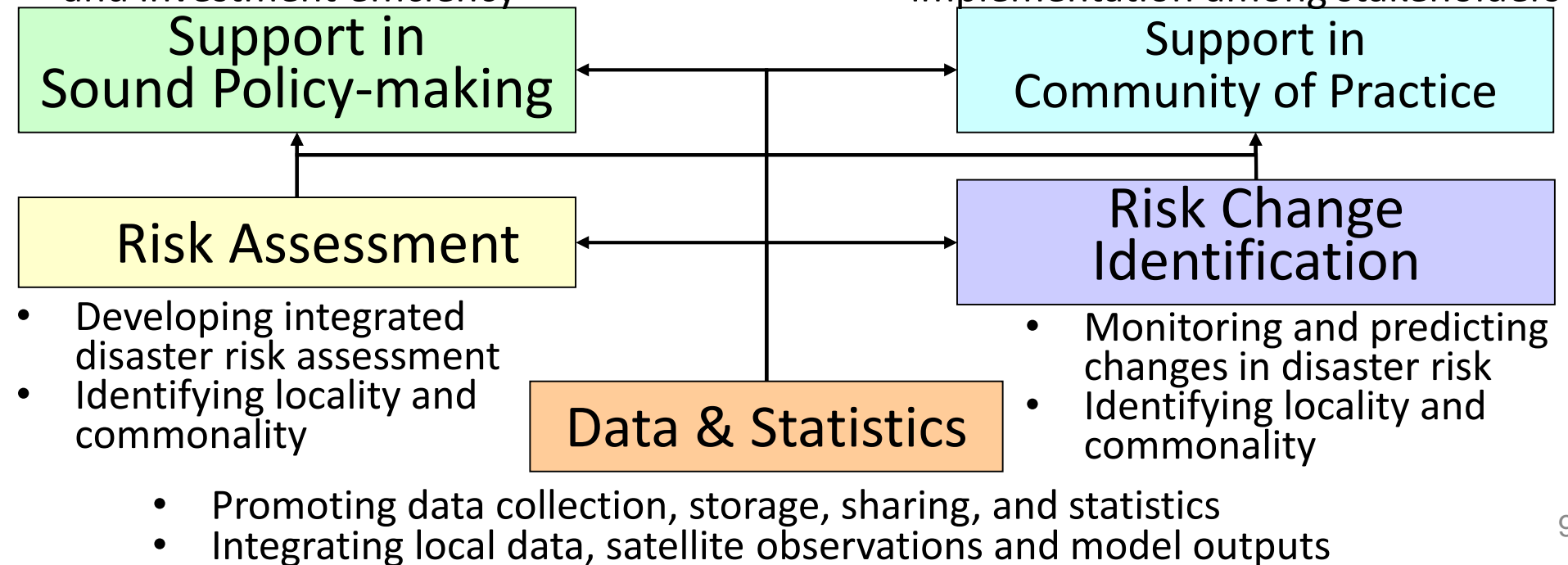




## IFI Key Actions

- Analyzing and formulating policies
- Visualizing values of preparedness and investment efficiency

- Improving disaster literacy
- Promoting co-design and co-implementation among stakeholders



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In Close Collaboration with:



# Spiral-up Framework 2016-2022

## Phase-3 Operation: Strengthen & Expanding



## Phase-2 Prototyping: Install in Specific Areas



## Phase-1 Demonstration: Existing Infrastructure



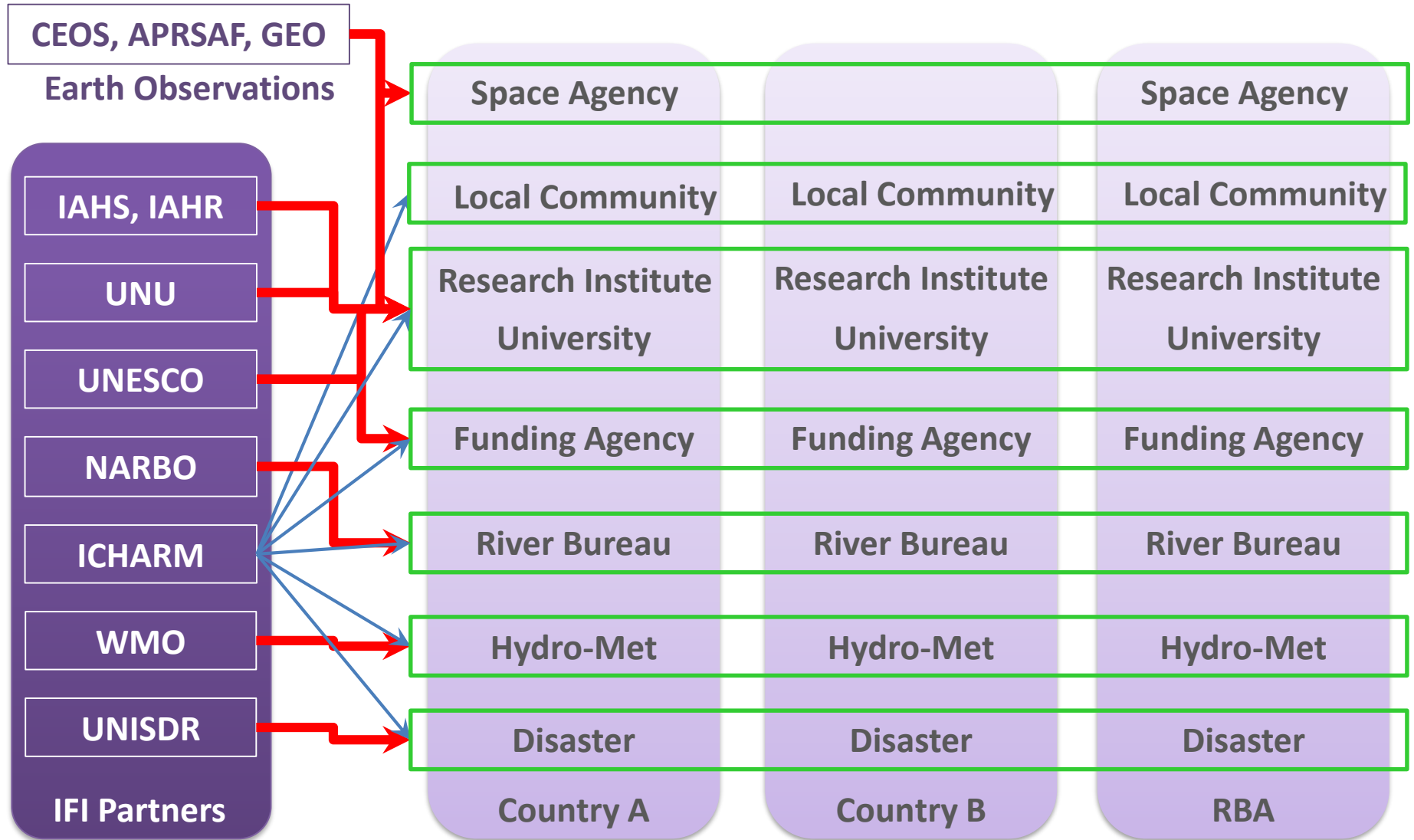
**National  
Coordination  
Framework**



- Locality
- Institutional arrangements
- Observation & data integration
- Natural & Socio-economic
- Communities of practice

**Regional  
Coordination  
Framework**

- Commonality & Priority
- Sharing knowledge, best practice
- Strengthening capability
- Establishing a forum for promoting dialogue

# Structure Image of IFI Support



Main support:   
collaboration 

Regional Cooperation

# HELP-IFI Jakarta Statement (draft Oct.31, 2016)

-Towards an interdisciplinary and transdisciplinary partnership to consolidate flood risk reduction and sustainable development -

## 1. Present Status

- increasing losses
- human factors + climate change
- globalized and interconnected 21C
- gap between science and society
- lack of effective inter-agency coordination

## 2. Key Directions

- Sendai+SDGs+Paris
- budgetary imitations and capabilities
- spiral-up approach
- interdisciplinary and transdisciplinary
- quantifying and minimizing the uncertainty
  - data
  - assessment
  - change identification
  - awareness
  - preventive investment
  - response-recovery

## 3. Actions

### Each country:

- platform on water and disaster (<national platform)

### IFI Partners:

- assist the platform

### Donors:

- incremental support

Asia and Pacific → World



# HLPW Panel members (as of 3/21/2016)

United Nations Secretary-General and President of the World Bank Group convened a High Level Panel on Water (HLPW), consisting of 11 sitting Heads of State and Government and one Special Adviser, to provide the leadership required to champion a comprehensive, inclusive and collaborative way of developing and managing water resources, and improving water and sanitation related services. <https://sustainabledevelopment.un.org/HLPWater>

**Kevin Rutte**  
*Prime Minister, Netherlands*

**János Áder**  
*President, Hungary*

**Emomalii Rahmonov**  
*President, Tajikistan*

**Macky Sall**  
*President, Senegal*

**Enrique Peña Nieto**  
*President, Mexico*

**Ameenah Gurib-Fakim**  
*President, Mauritius*

**Jacob Zuma**  
*President, South Africa*

**Abdullah Ensour**  
*Prime Minister, Jordan*

**Sheikh Hasina**  
*Prime Minister, Bangladesh*

**Malcolm Turnbull**  
*Prime Minister, Australia*

**Special Advisors to the Panel**

- Dr. Han Seung-soo**  
*Former prime Minister, South Korea*
- Manuel Pulgar-Vidal**  
*Minister, Peru*

*Co-convened by:*

**Ban Ki-moon**  
*Secretary General, United Nations*

**WORLD BANK GROUP**

**Jim Yong Kim**  
*President, World Bank Group*

# HLPW Action Plan “9 Areas of Action”

1. Catalyzing Changes, Building Partnerships and International Cooperation
2. Resilient Economies, Societies, and Disaster Risk Reduction
3. Universal Access to Safe Water and Sanitation
4. Sustainable Cities and Human Settlements
5. Water and the Environment
6. Infrastructure and Investments
7. Water Governance
8. Water Data
9. Valuing Water



WATER DATA



VALUING WATER



WATER GOVERNANC

# Implementation Planning Workshop on International Flood Initiative (IFI) in Asia-Pacific

January 10, 2017 in Tokyo, Japan

[http://www.ifi-home.info/20170110\\_event.html](http://www.ifi-home.info/20170110_event.html)



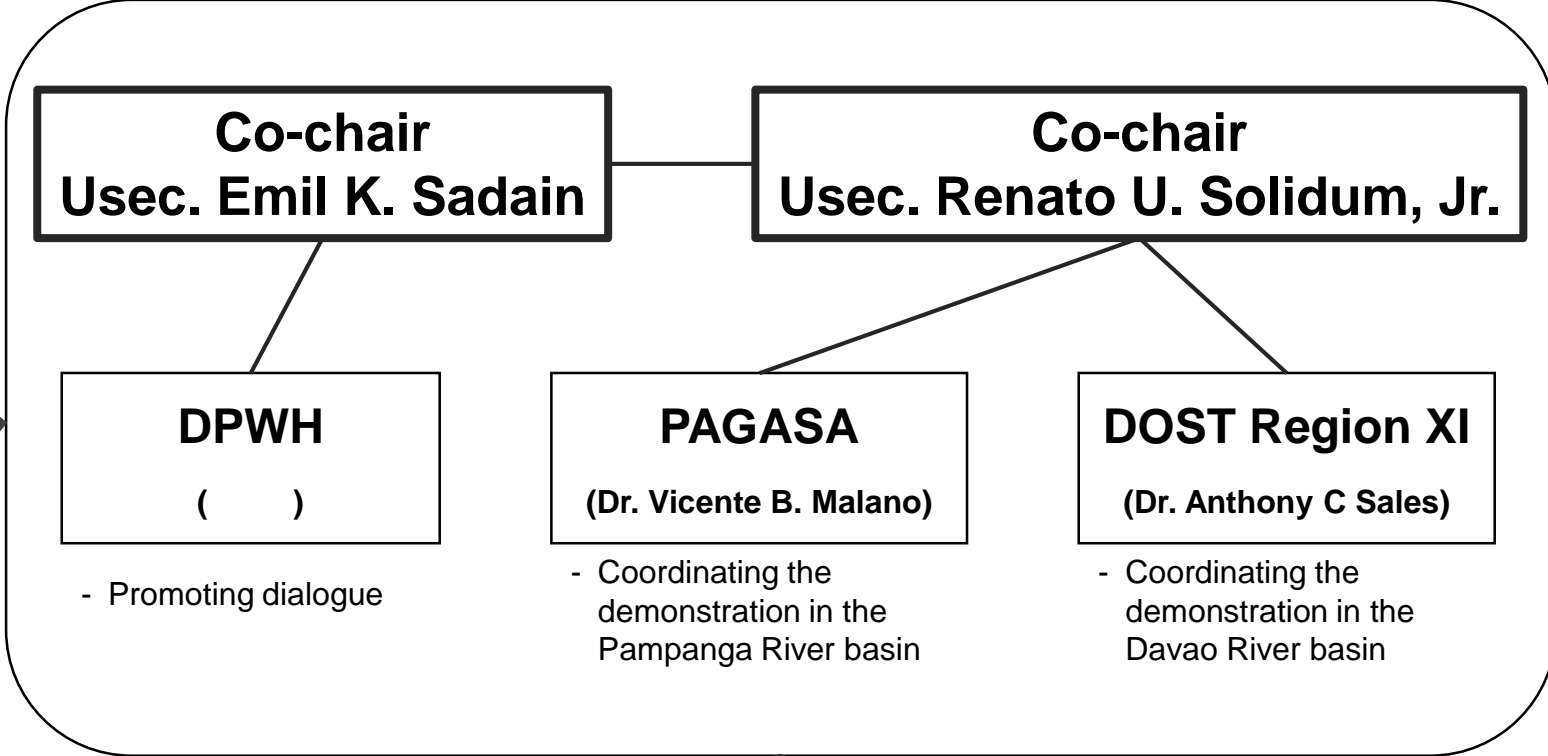
## Participated Countries (6)

**Indonesia, Malaysia, Myanmar, Pakistan, Philippines, Sri Lanka**

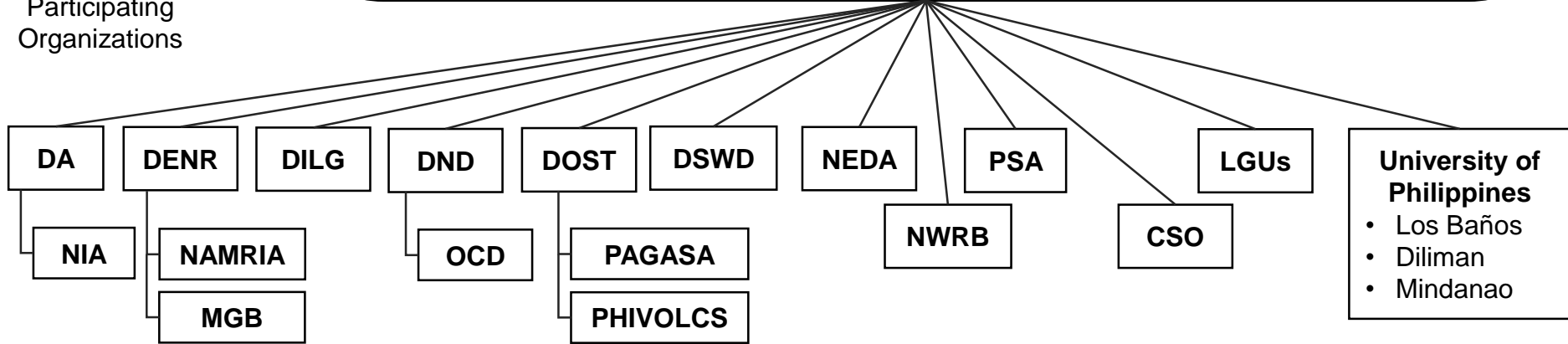
# Philippines Institutional Structure of “Platform on Water-related Disasters”

- NDRRMC
- RDRRMCs
- LDRRMCs

Contribute



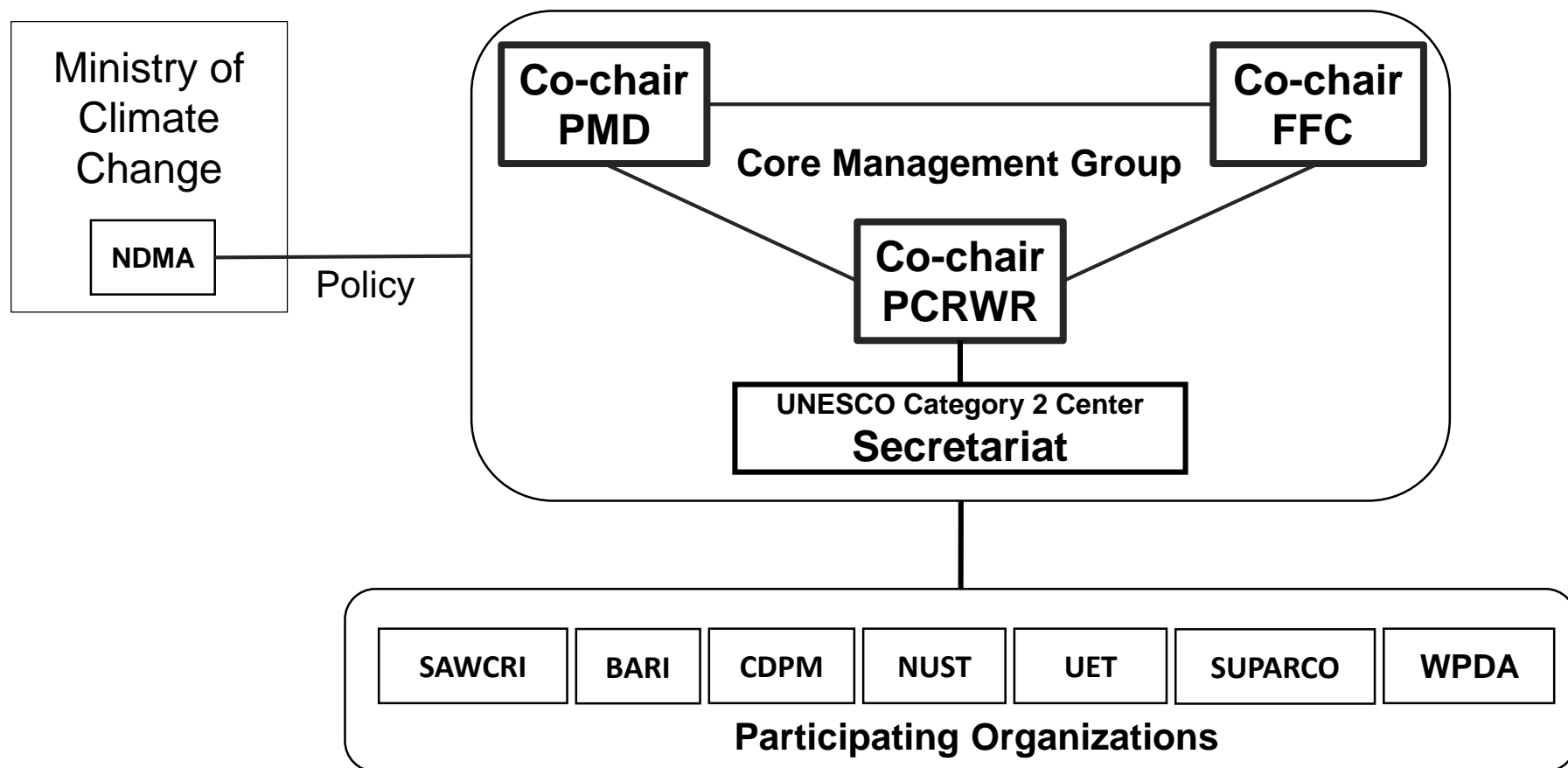
Participating Organizations



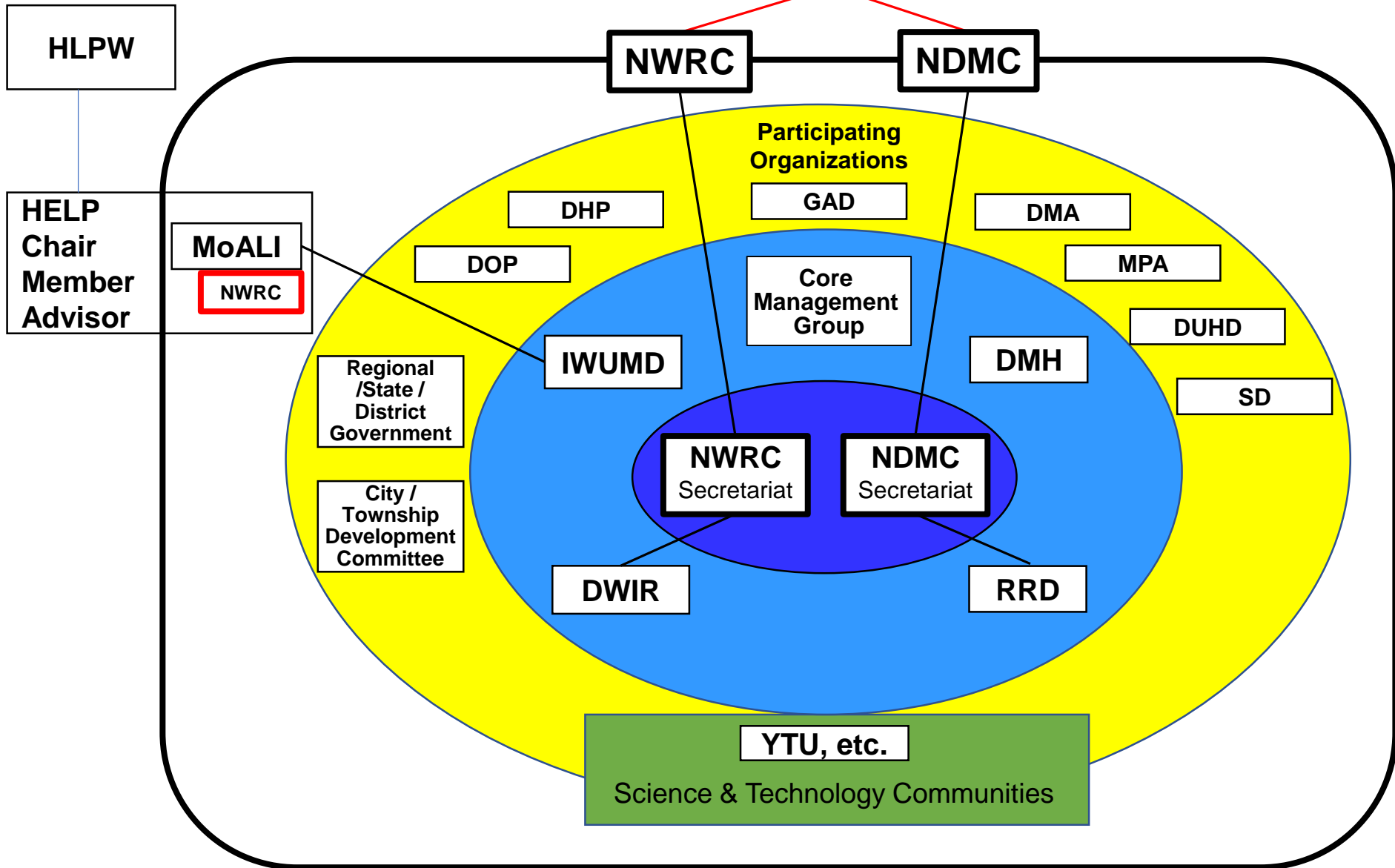


# Pakistan

## Institutional Structure of the Platform on Water and Disasters

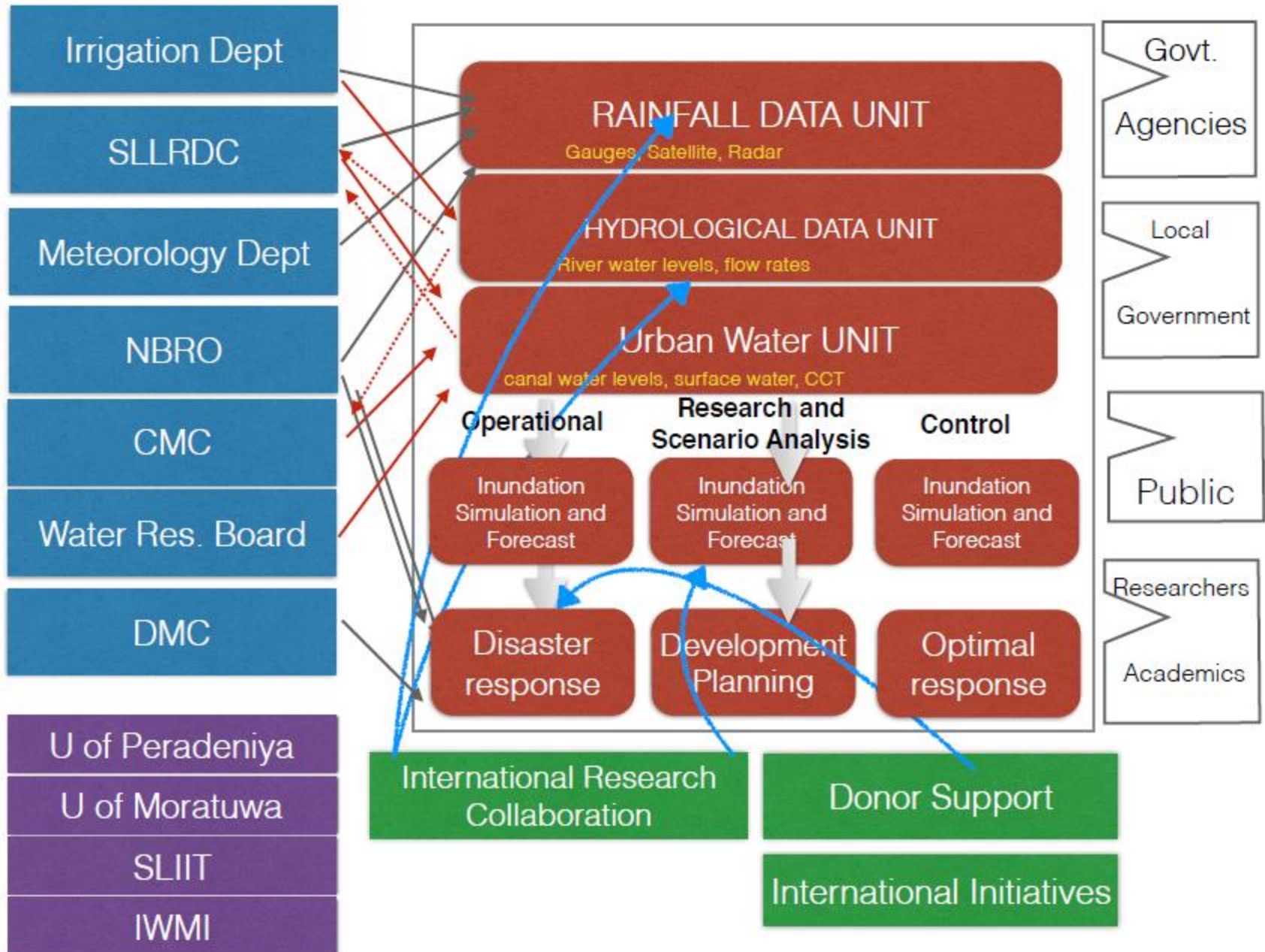


# Myanmar

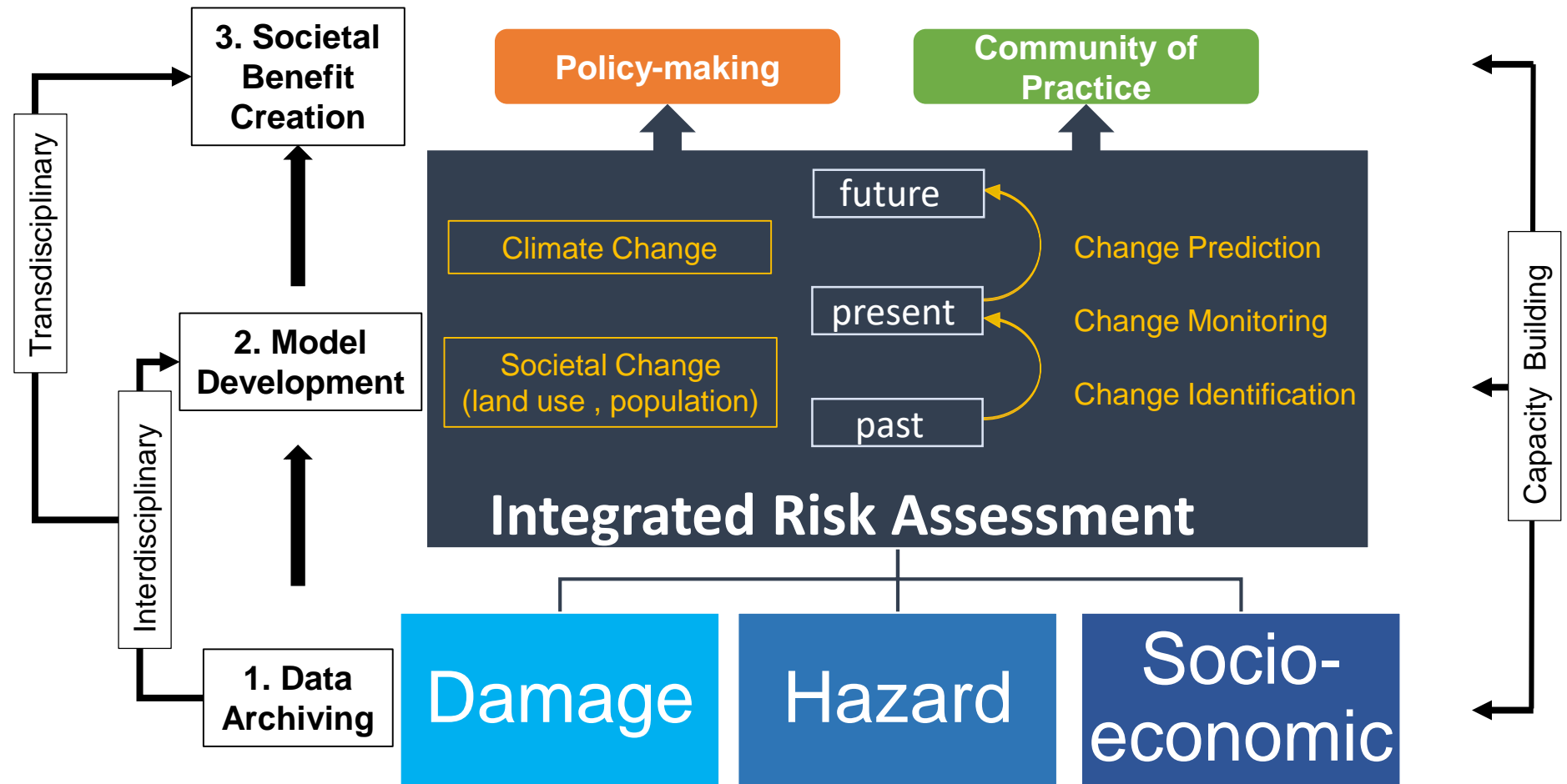


# Sri Lanka

## System Implementation



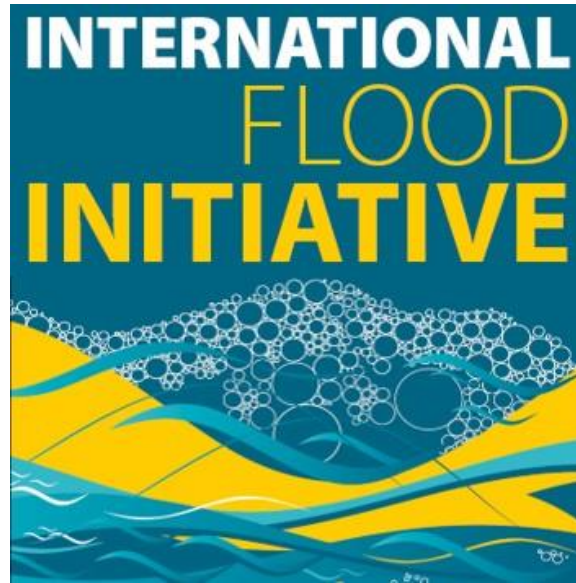
# Implementation Framework of the Platform on Water and Disaster





# Thank you for your kind attentions!

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## Future Events of IFI

- Sep. 2017 ICFM7@Leeds, UK (IFI special session)
- Sep. 2017 GEOSS-AP@Hanoi, Vietnam (IFI special session)
- Nov. 2017 World BOUSAI Forum@Sendai, Japan (IFI session)