

GEOSS Asian Water Cycle Initiative (AWCI)

- 2005 Nov. 1st Symp. in Tokyo
- 2006 Sept. TTM in Bangkok
- 2007 Jan. 2nd Symp. in Tokyo
- 2007 Sept. 1st ICG in Bali
- 2007 Dec. 3rd Symp. in Beppu
- 2008 Apr. 2nd ICG in Tokyo
- 2008 Nov. 3rd ICG in Beijing
- 2009 Feb. 4th ICG in Kyoto
- 2009 Dec. 5th ICG in Tokyo
- 2010 Mar. 6th ICG in Bali
- 2010 Oct. 7th ICG in Tokyo
- 2011 Mar. 1st CCAAT in Tokyo
- 2011 Oct. 8th ICG in Tokyo
- 2012 Sept. 9th ICG in Tokyo
- 2013 Jun. 2nd CCAAT in Tokyo
- 2013 Nov. Asia-Africa Water Cycle Symposium in Tokyo
- 2014 May 10th ICG in Tokyo
- 2014 Sept. 3rd CCAAT in Islamabad
- 2015 Sept. AASymp in Beijing

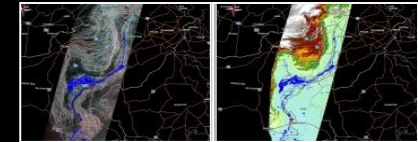


Coordination Design
Data Sharing Policy
Implementation Plan

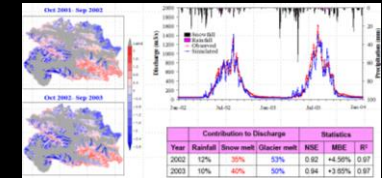
18 Demonstration
River Basins



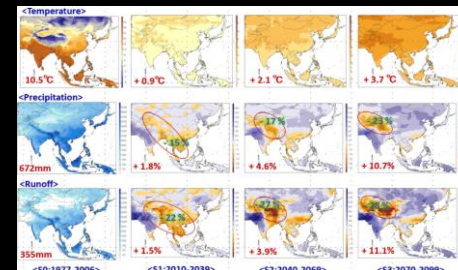
Data Archive



Flood Monitoring



Snow & Glacier Melt



Climate Change Impact
Assessment in Asia

International Symposium on Integrated Actions for Global Water and Environmental Sustainability

In line with the Commemoration of the 70th Anniversary of UNESCO



21-22 October 2015, Medan, Indonesia

International Flood Initiative (IFI) and International Drought Initiative (IDI)

Second UN Special Thematic Session on Water and Disasters



9:30-17:50

Wednesday, November 18, 2015

The UN Headquarters, New York

Organizers

UN Secretary-General
co-organized by
UN Secretary-Generals'
Special Envoy on Disaster
Risk Reduction and Water
and High-level Experts and
Leaders Panel on Water
and Disasters (HELP)



Science and Technology to Advance DRR on Water

Asia Water Cycle Symposium (AWCS2016)

1-2 March 2016, Tokyo, Japan



161 participants from 20 countries
and 4 UN organizations

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

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

Support in Sound Policy-making

Support in Community of Practice

Risk Assessment

Risk Change Identification

Data & Statistics

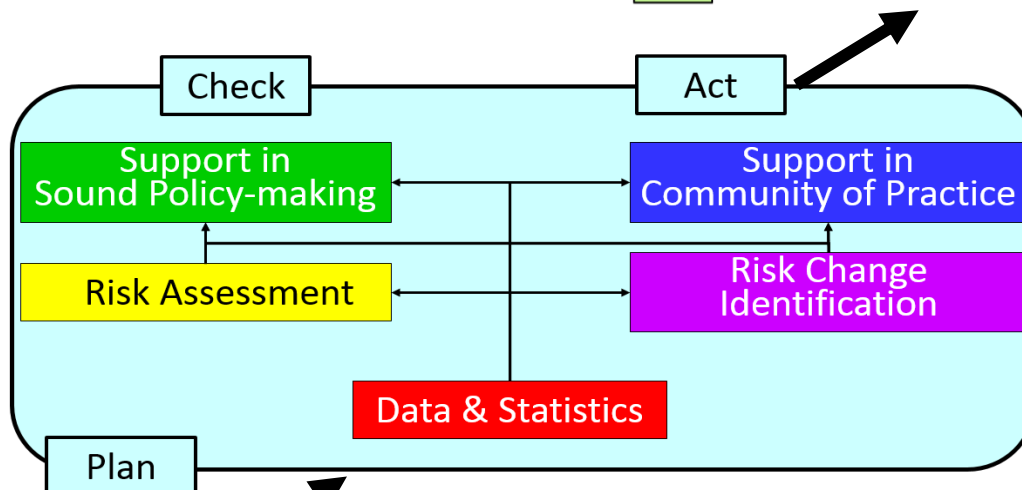
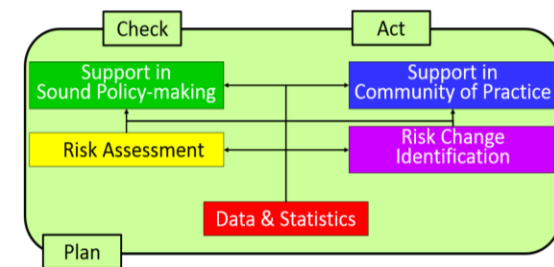
- Developing integrated disaster risk assessment
- Identifying locality and commonality

- Monitoring and predicting changes in disaster risk
- Identifying locality and commonality

- Promoting data collection, storage, sharing, and statistics
- Integrating local data, satellite observations and model outputs

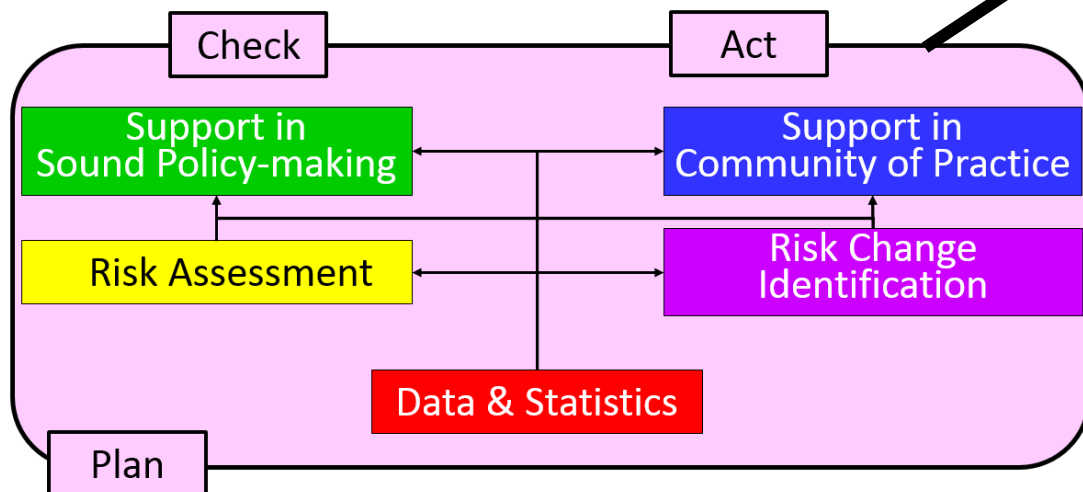
Spiral-up Development

Demonstration → Prototyping → Operation



Regional coordination framework

- Commonality & Priority
- Sharing knowledge, best practices
- Strengthening capability of observations, assessments and management
- Establishing a forum for promoting dialogue at all level



National coordination framework

- Locality
- Institutional arrangements
- Observations & data integration
- Natural & Socio-economic collaboration
- Communities of Practice

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



GEOSS Asia-Pacific Symposium

*Earth Observations Supporting the Implementation
of the SDGs in the Asia Pacific Region*

Date

11th-13th January 2017

Venue

Tokyo International Exchange Center, Plaza Heisei, Japan

WG1:

Asian Water Cycle Initiative (AWCI)



Program Overview 1

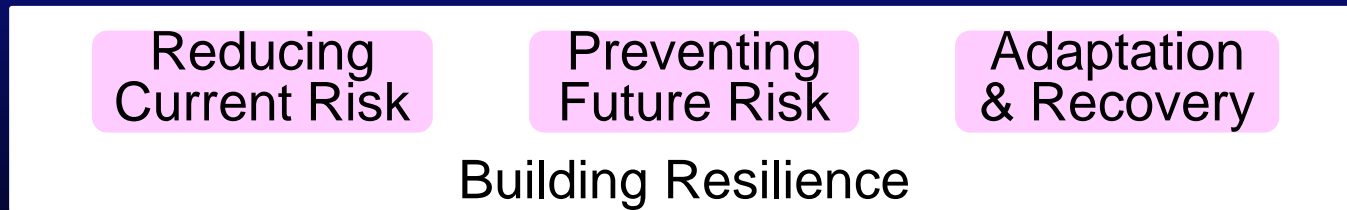
- **65 participants from more than 10 countries and 4 International/regional organizations**
- **Co-chaired by UNESCO Family: Report of AWCS2016**
- **Keynote by Prof. Yoshino from ADBI,**
“Economic Impact of Water Infrastructure: Proposal of Evaluation”
- **GEO-Water under Three Key Global Agendas in 2015**

GEO-Water under Three Key Global Agendas in 2015

Understanding Governance Investment Implementation



Concerted Action is Required



Sustainable Development

Program Overview 2

- **Observation, Data Integration and Information Dissemination (UNESCO, JAXA, CAS, Kyoto U, DIAS, ICHARM)**
- **Flood and Drought (IFI, IDI, UNESCAP, G-WADI)**
- **National Status Reports (Malaysia, Myanmar, Pakistan, Philippines, Sri Lanka)**
- **Donor's Voice (WB)**
- **Discussion**
 - 1) Needs, Issues and Benefits
 - 2) Linkage to Regional and Global Coordination Framework
 - 3) Capacity Building
 - 4) Planning Strategy

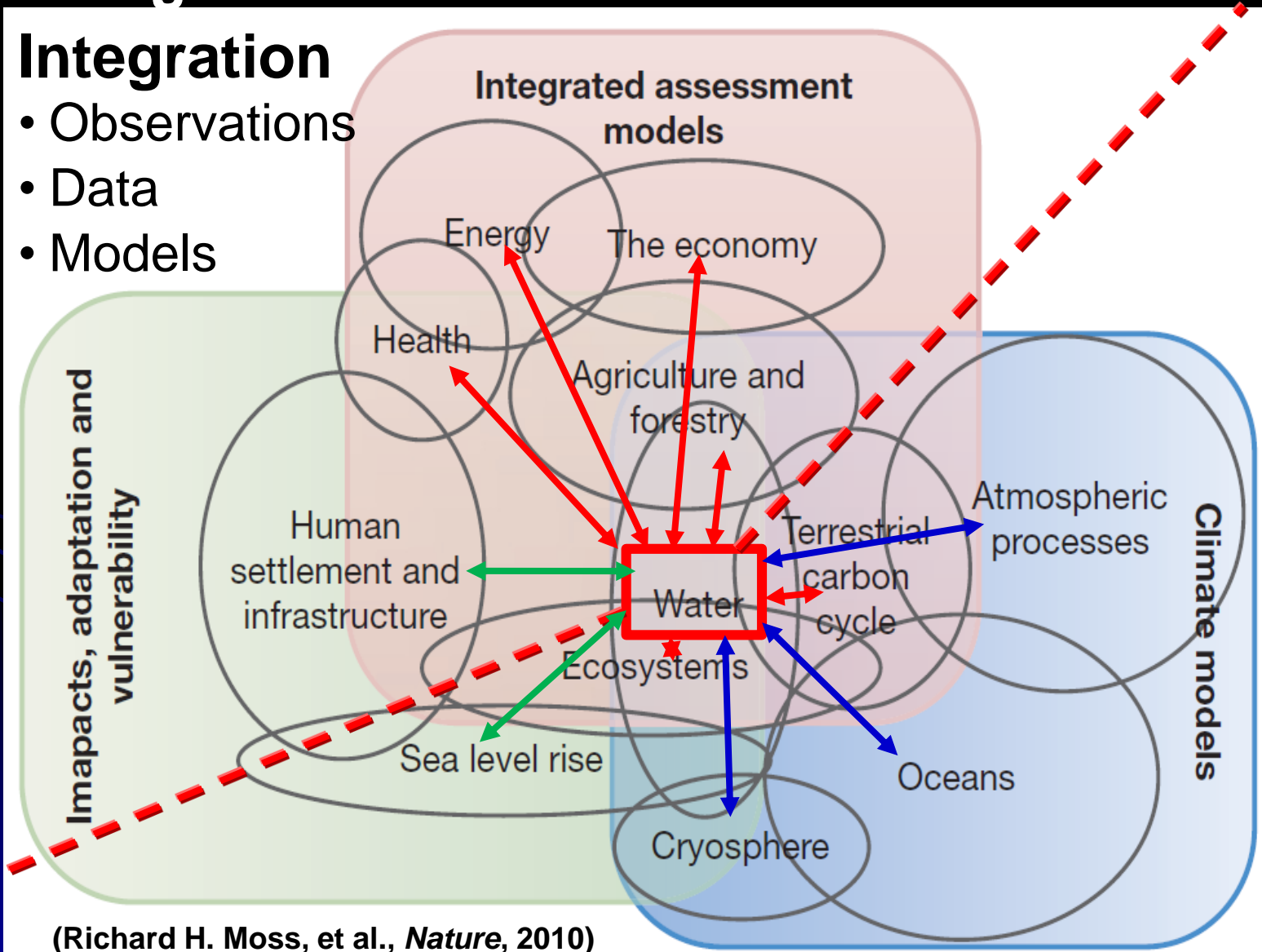
Holistic, Evident-based, Quality, Quantity

Water is Key

Dialogue → Platform

Integration

- Observations
- Data
- Models



(Richard H. Moss, et al., *Nature*, 2010)

Summary of Discussion

1) Needs, Issues and Benefits

- SDG: Goals No. 6 on water is linked to other goals such as No. 2,11 and
- Flood and drought are co-exist
- Potential private sectors involvement and PPP scheme in water-related DRR
- Combination of Non-structural and structural measures

2) Linkage to Regional and Global Coordination Framework

- Multi-agencies and Inter-regional collaboration
- HLPW and UN International Decade Water for Sustainable development 2018-2028
- Opportunities and Challenges for Collaboration (Donor Voice)
- How to achieve actual result: Identify milestones, resources and deliverables clearly

3) Capacity Building

- Identify needs of institutional and human capacity development knowledge products and Trainings
- Regular meetings of national representatives

4) Planning Strategy

- Introducing examples of framework and prototypes
- Multi-stakeholder platform and stakeholder participation in decision making process

WG1 Input to the Tokyo Statement 2017

The AWCI will take advantage of existing initiatives and programs to improve **understanding**, strengthen **governance**, inform **investment** and support **implementation** for reducing water-related disaster and environmental risks.

AWCI will establish and strengthen **national platforms** and identify **milestones, resources and deliverables** clearly, to reconcile the relations between **disaster risk reduction, sustainable development and climate change adaptation**.

Inter-linkages are key to develop **holistic, evidence-based, quantitative and qualitative information** for addressing flood and landslide, drought and water scarcity, and water environmental degradation.