

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

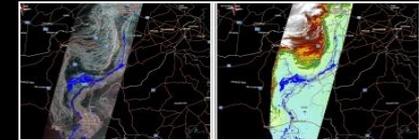


Coordination Design
Data Sharing Policy
Implementation Plan

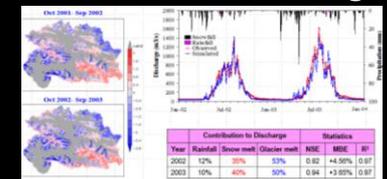
18 Demonstration
River Basins



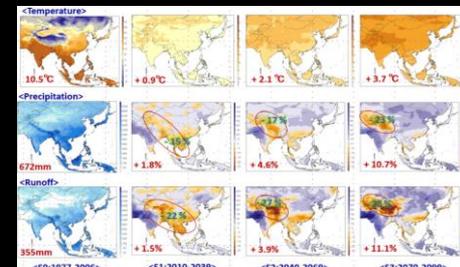
Data Archive



Flood Monitoring



Snow & Glacier Melt



Climate Change Impact
Assessment in Asia

Symp.: Symposium TTM: Task Team Meeting ICG International Coordination Group
CCAAT: Climate Change Assessment and Adaptation Training

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

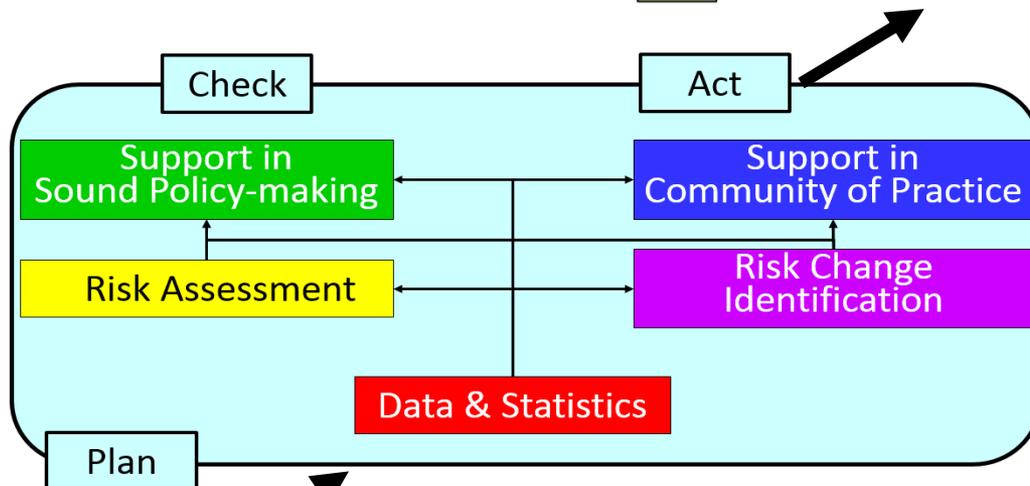
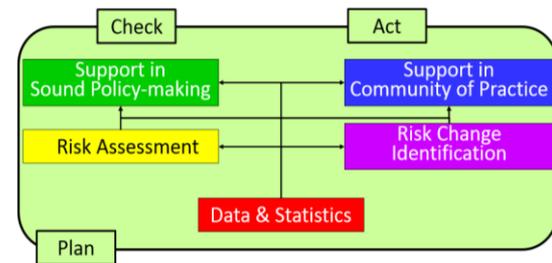
- Developing integrated disaster risk assessment
- Identifying locality and commonality

- 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

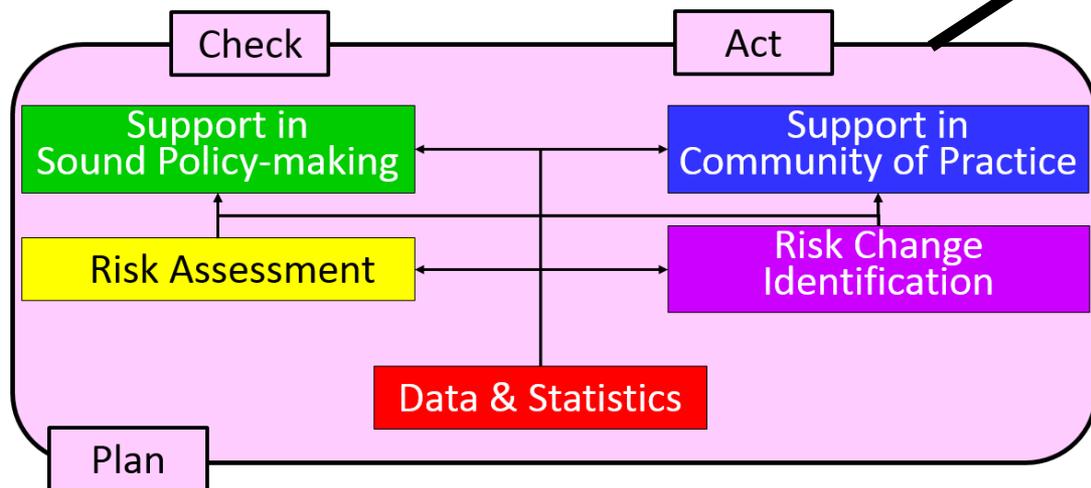
Spiral-up Development

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

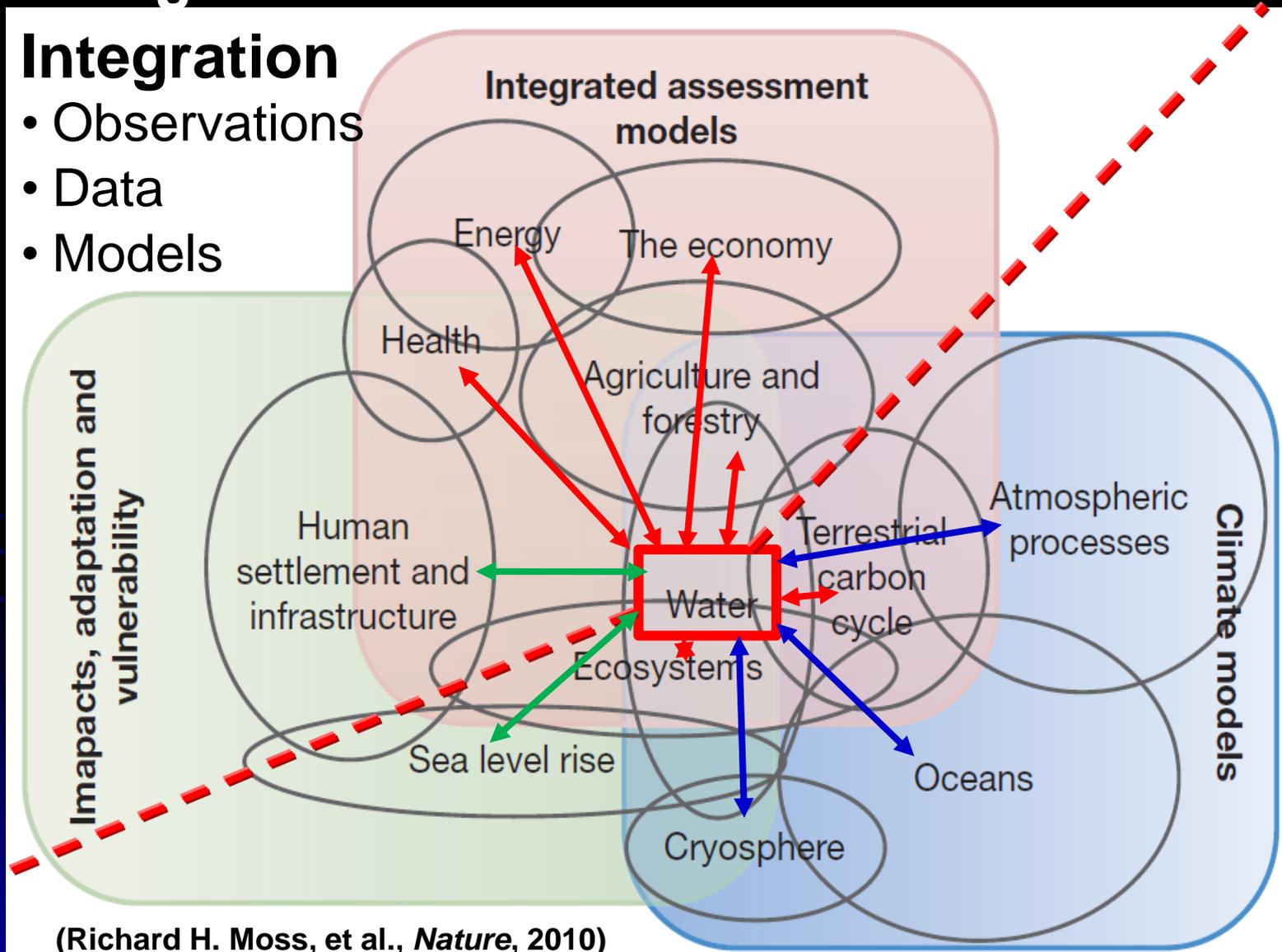
Holistic, Evident-based, Quality, Quantity

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.