



Toward "End to End" IFI regional activities in the Asia Pacific region

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1. IFI



The journey of the IFI initiative

May: XIVth <u>WMO Congress</u> 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.

2002

17-22 Jun : <u>15th UNESO-IHP IGC</u> <u>Resolution</u> XV-14 on Joint UNESCO/WMO Programme on Floods 18-22 Jan 2005 Inauguration of IFI at WCDR in Kobe WMO/UNESCO/ UNISDR/UNU

2004

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

MISSION

STATEMENT:

The International Flood Initiative (IFI) promotes an integrated approach to flood management to take advantage of floods and use of flood plains while reducing the social, environmental and economic risks.

OVERALL

OBJECTIVE:

To build the capacity necessary to understand and better respond to flood hazards, vulnerabilities and benefits.

IFI's GUIDING PRINCIPLES:

INTERNATIONAL

Living with Floods Equity Empowered participation Inter-disciplinarily and trans-sectorality. www.ifi-home.info Initiated at UN Global Conference for Disaster Risk Reduction in Kobe, January 2005

ICHARM

in Close Collaboration with:

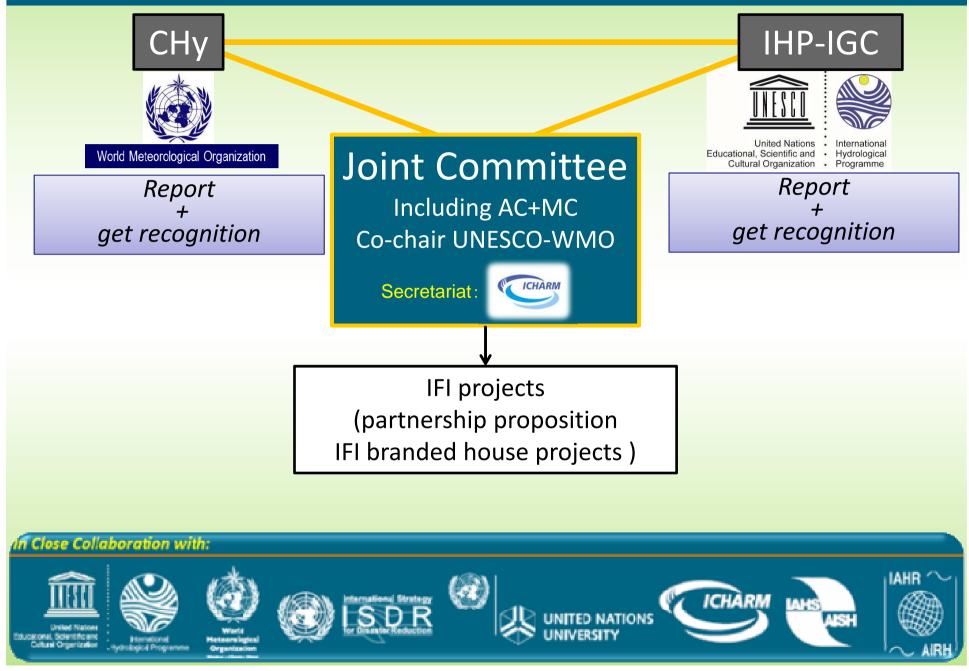








IFI Organization Chart



INTERNATIONAL FLOOD INITIATIVE

IFI from 2004 to now

- 2004: Draft of IFI concept paper
- 2005: IFI inauguration in Kobe
- 2007: Finalization of the concept paper in a form of a pamphlet
- 2008-2010: the implementation of the initiative \rightarrow activity mapping
- Oct 2010: Finalization as an action plan list.
- 2007, 2008 (May, Oct), 2010: IFI AC and MC with WMO/UNESCO attendance at director level
- Nov 2012: pre-AC meeting with WMO and UNESCO to rejuvenate IFI.
- Feb 2013: IFI planning workshop.
- March 2013: IFI flagships project launching at HELP
- March 2013 to now: IFI flagships by ICHARM and BfG, Germany
- June 2015 to now: Updating a basic documents (in progress)

 \rightarrow Concept and Strategy with an action plan list

→ <u>Regional framework(s)</u>

2. The context of IFI next step in the Asia Pacific region







UN World Conference on Disaster Risk Reduction 2015 Sendai Japan WCDRR-UN World Conference on Disaster Risk Reduction in Sendai, 14-18 March 2015



(g) Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030

(f) Substantially enhance international cooperation to developing countries through adequate and sustainable support to complement their national actions for implementation of this framework by 2030

(a) Substantially reduce global disaster mortality by 2030, aiming to lower average per 100,000 global mortality between 2020-2030 compared to 2005-2015

> Sendai Framework for Action: 7 global targets to guide action on DRR and DRM over the next 15 years:

(b) Substantially reduce the number of affected people globally by 2030, aiming to lower the average global figure per 100,000 between 2020-2030 compared to 2005-2015

> (c) Reduce direct disaster economic loss in relation to global gross domestic product (GDP) by 2030

(e) Substantially increase the number of countries with national and local disaster risk reduction strategies by 2020 (d) Substantially reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030





UN General Assembly 25 September 2015

- 17 Sustainable Development Goals (SDGs)e.g.
- Target 11.5: By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations.



UN Climate Change Conference of Parties (COP 21), 11 November 2015

Paris Agreement

Paragraph 7 (Article 7, 8):

- (c) Strengthening scientific knowledge on climate, including research, systematic observation of the climate system and early warning systems, in a manner that informs climate services and supports decision-making;
- (d) Assisting developing country Parties in identifying effective adaptation practices, adaptation needs, priorities, support provided and received for adaptation actions and efforts, and challenges and gaps, in a manner consistent with encouraging good practices;



3. Excerpts from today's discussion



This morning session on Today

• What kind of gaps:

damage data including normal situations, information

 \rightarrow lack of coherence, quality, availability, accessibility, incentives knowledge, predictability, function-ability

 \rightarrow uncertainty, lack of climate shift, adaptation, sector disconnect social and economics context

 \rightarrow lack of integrated approach, citizen ownerships vicious cycle of disaster risk management

 \rightarrow shortage of finance from lack of risk assessment, political wills

• How do we fill the gaps:

Data use capacity, open resources, sharing Partnerships, institutionalizing, area BCP, strategic mapping Disaster finance (currently only 3%) mitigation Evidence base decision, hydro-diplomacy, operational needs Scale-up project, redundancy, safety net Global Observation from space, e.g. APRSAF, CEOS

This afternoon session (1)

- AWCI member countries' report -technical, institutional +deficiency; quality of data and models (Indonesia, Mongolia, Philippines, Thailand), structural and non-structural measures (Japan), observation limitation (Korea, Nepal), lack of multi-stakeholders' coordination (Pakistan), capacity of modeling for EWS (Myanmar, Sri Lanka), less investment for emergency, capacity of dissemination (Thailand), etc.
- NARBO member countries' report –management and cooperation; Soft (incl. community based) and hard measure in Brantas and Bengawan Solo river, IWRM and community FM in Asahan and Jratunseluna river basins, Structural and non-structural measures including academic cooperation and UNSPIDER but still challenges for climate and uneven allocation of water, lack of knowledge in Vietnam, 7 dams operation example in 2013 in Japan. NARBO efforts for IWRM in Asia, mentioning SDGs #6.

This afternoon session (2)

• Flood Early Warning System:

How to deal with limited data, provide appropriate models, and support local capacity building for IFM with reliable simulation models and global data (satellite) combined with in-situ data? ICHARM projects (IFAS and RRI models with capacity building); JAXA Sentinel Asia in Myanmar, DEM, GSMaP, quality of data and models; PMD Flood Warning System, Maps using IFAS and RRI in trans-boundary river by GSMap; Utokyo GSMaP application in Sri Lanka, Philippines (Angat dam); Yangon TU, limited reservoir capacity, SATREPS for data-lack supplement; timing data and model development including remote-sensing technology.



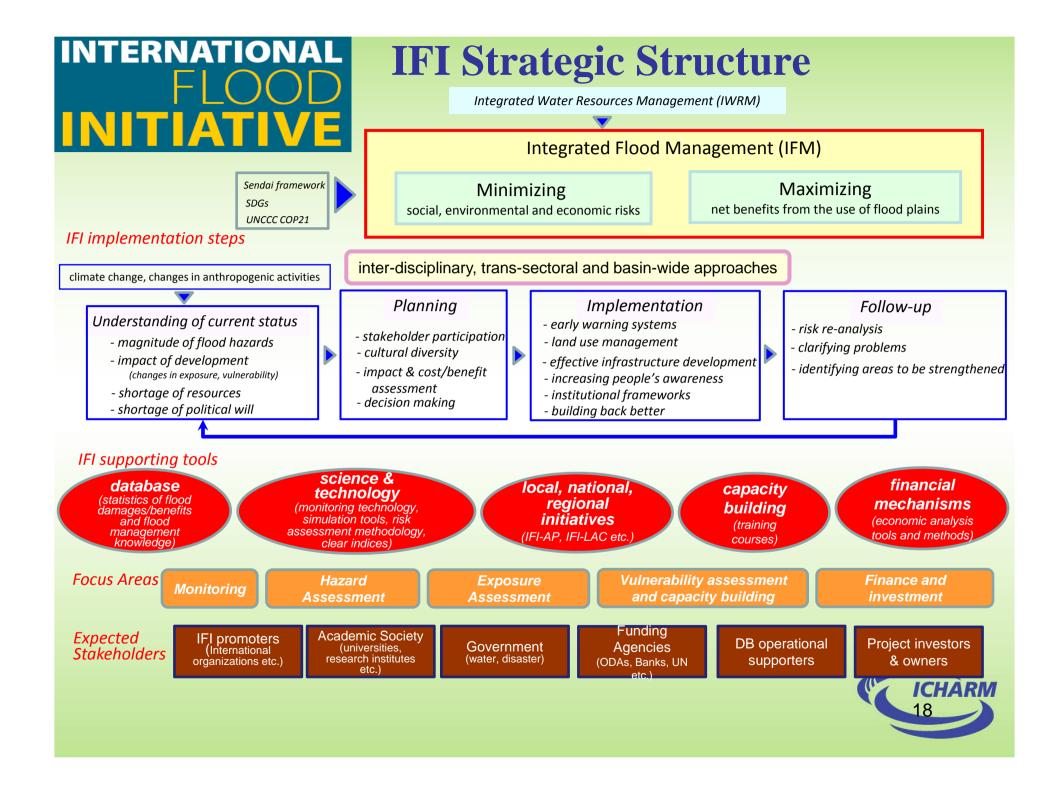
This afternoon session (3)

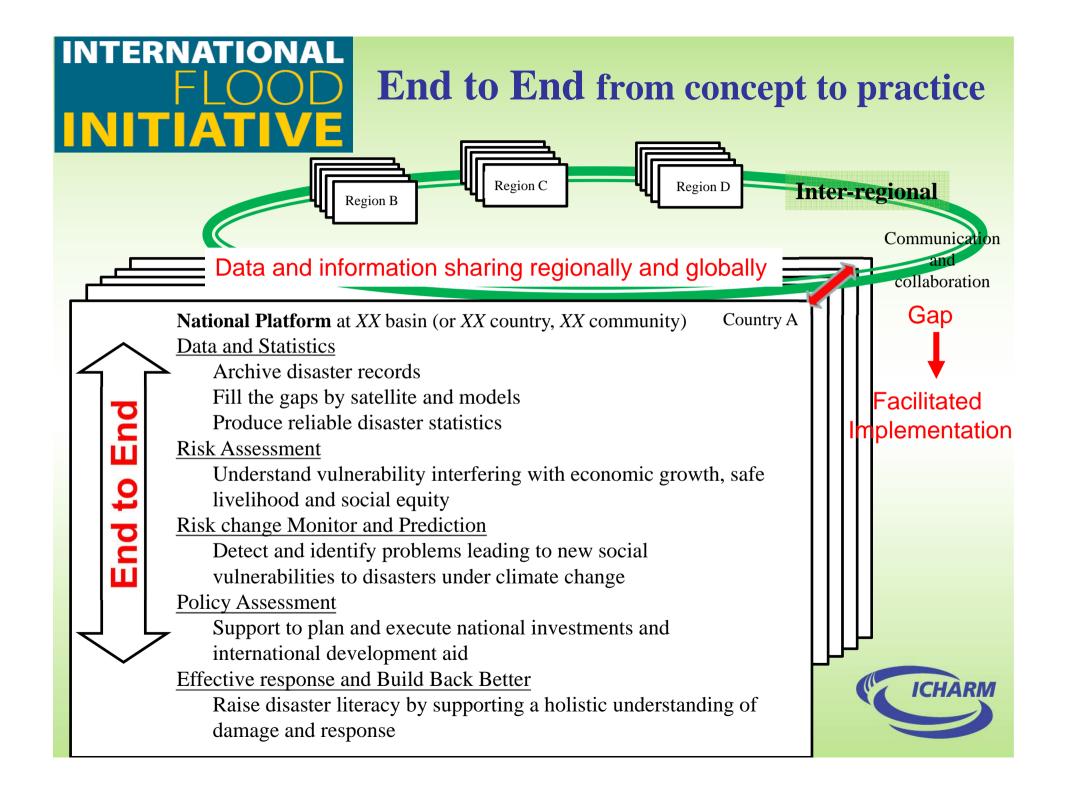
• Flood Disaster Risk Reduction:

Evident-based FDRR practice in Calumpit, the Philippines. ICHARM summarizes FDRR, contingency planning projects with assessment using IFAS and RRI models, applied to preparedness (markers, period of flooding), questioned 1) current data/information, and 2) their requirement. PAGASA, observation and prediction, 1) political, mislead, impact-based hydromet warning, 2) integrated approach; OCD, secretariat of national DRR council as well as operation, 1) threshold values and consistency for actions, 2) statistics, damage data, climate data collection and analysis, simplified data; Bulakan, community FM projects (preparedness, rescue operation), 1) more support, coordination, partnerships, 2) more information, assistance; Calumpit, communities assistance, local rescue, NGO coordination, 1) limited funds, political leaderships, 2) ICHARM understandable data for decision. Missing link with local government, localized materials for education.

4. Way forward







INTERNATIONAL FLOOD INITIATIVE

Timeframe

- 14-18 Mar. 2015 UN WCDRR in Sendai, Japan
- 12-17 Apr. 2015 WWF7 in Daegu, Korea
- 25 Sep.2015 SDGs at the UN General Assembly
- 21 Oct. 2015 UNESCO-IHP RSC in Medan, Indonesia
- 11 November 2015 Paris Agreement
- 21 st session of the UN Climate Coference of Parities (COP 21)
- 17 Nov. 2015 HELP in NY, USA
- 18 Nov. 2015 Second UN Special Thematic Session on Water and Disasters in NY, USA
- 18-19 February 2016 G-Science, Science Council of Japan, Tokyo, Japan

1-2 March 2016 Asia Water Cycle Symposium, Tokyo, Japan

26-27 May 2016 G7, Ise-shima, Japan UNESCO IHP-IGC, WMO Chy, ICFM7 etc.



