



Building Blocks for Resilient Asia Pacific Region

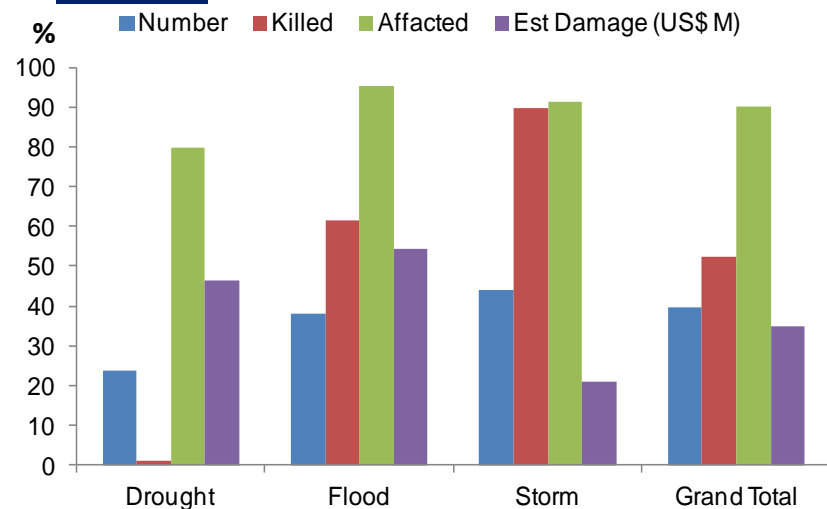
Qingfeng Zhang

Chair of the ADB's Water Sector Committee

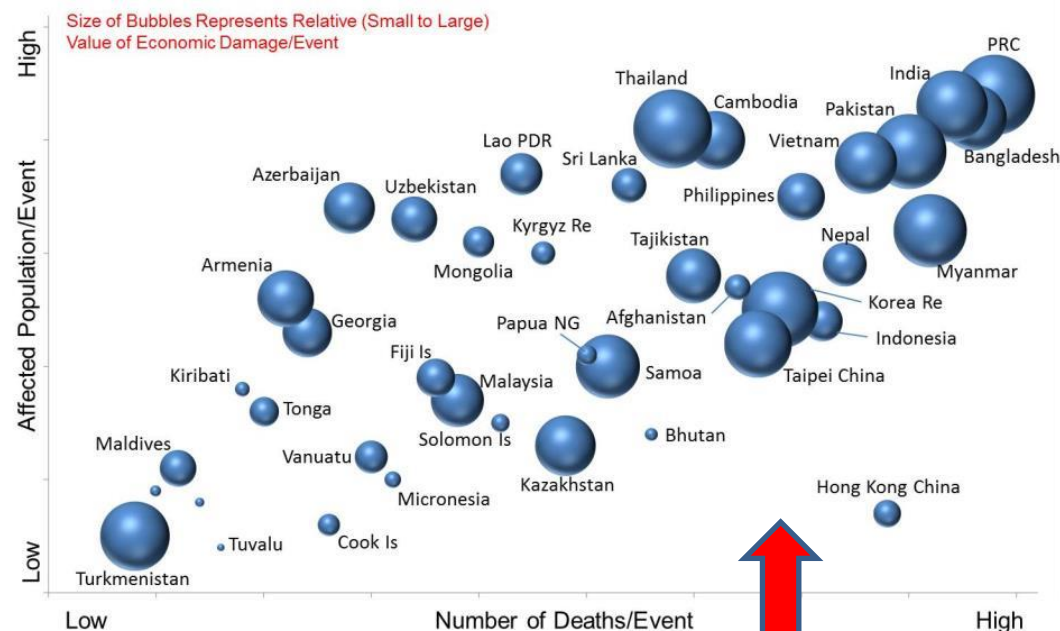
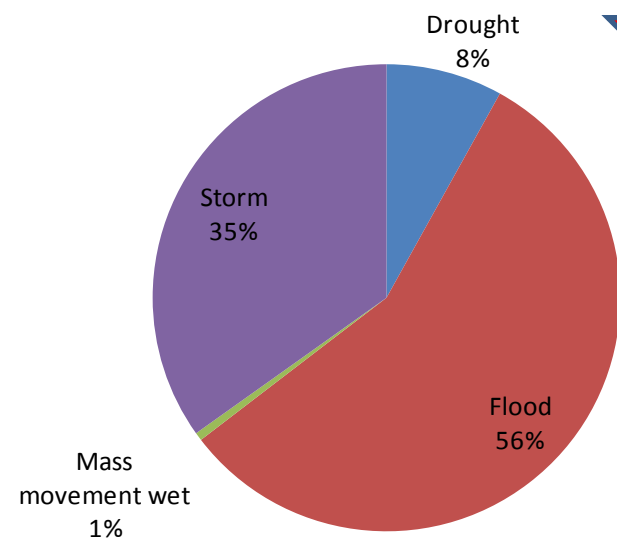
Director, EARD/EAER

ADB

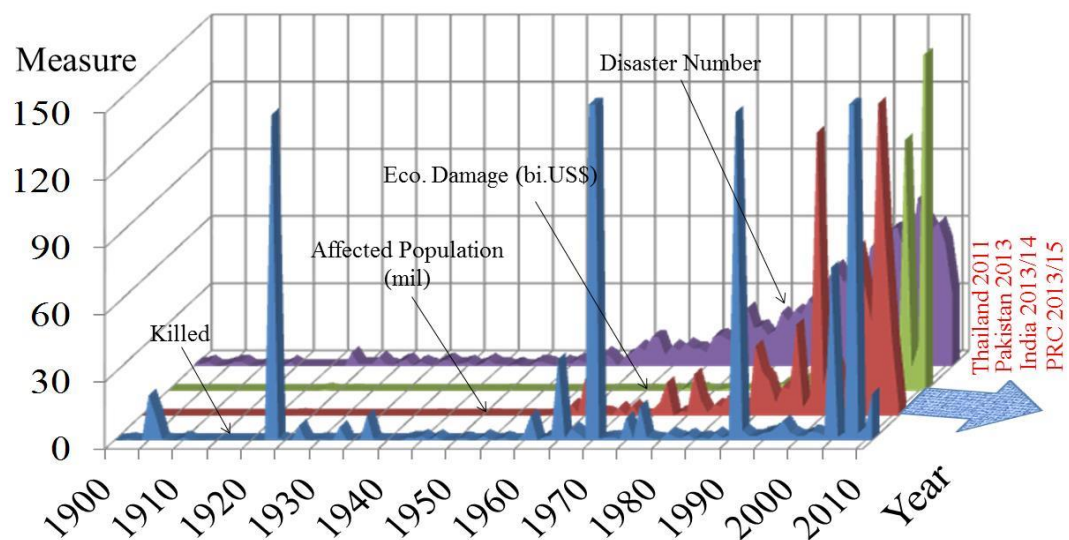
Water-related disasters in Asia and Pacific



WRD impact: DMCs Vs Global



Flood Vulnerability of DMCs



Example: Flood impact in DMCs

WRD economic impact in DMCs

ADB'S STRATEGY, POLICIES AND PLANS: ADDRESS WATER-RELATED DISASTERS

2001 Water for All Policy (7-Key Elements)

2004 Disaster and Emergency Assistance Policy (DEAP)

2006 Water Financing Program 2006-2010

Key Investment Areas

- **Rural Water:** Health and livelihoods
- **Urban Water:** Economic growth in cities
- **Basin Water:** Promote IWRM & healthy rivers and adapt to CC

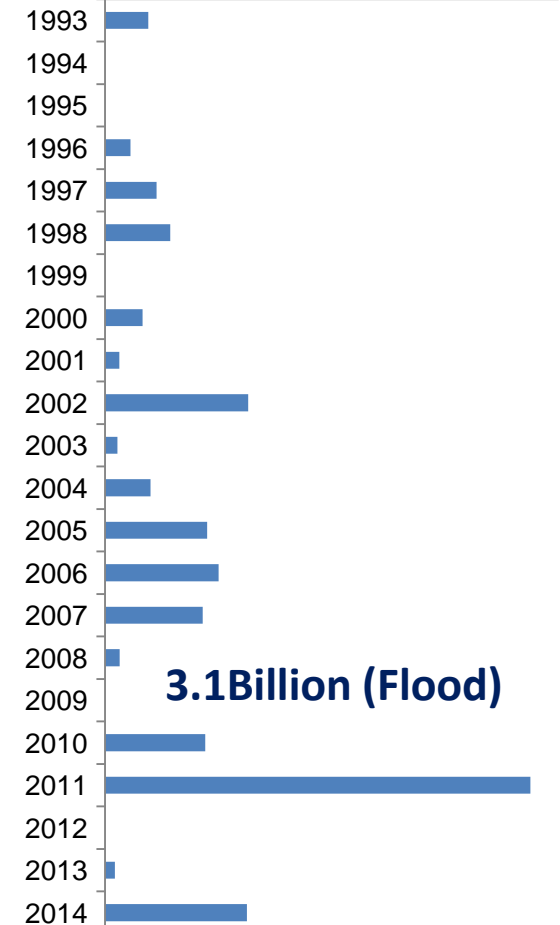
2008 Strategy 2020
DEAP Action plan

2011 Water Operational Plan 2011-2020

Embedded IWRM

- Flood and Drought Miti., Water-Related Disasters
- Water-Food-Energy Nexus

2014 Mid-term review (water-food –energy, climate change adaptation)



**Post 2015
Development
Agenda:
Sendai Resolution,
SDGs, Paris
Agreement**



ADB'S EVOLVING INVESTMENT IN REDUCING WATER-RELATED DIASERS



PRC: Yellow River Flood Management Sector Project

Pakistan: Punjab Irrigated Agriculture Investment Program, 2011-2021

Assam Integrated Flood & Riverbank Erosion Risk Management, IND (Ongoing)

Kolkata Environmental Improvement Investment Program, IND 2014-2018

Strengthening urban climate change resilience in Bangladesh, 2014-2020

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Flood and Riverbank Erosion Risk Mgt Investment Program BAN, 2014-2023

GMS Flood and Drought Risk Management and Mitigation Project; 2015-2019

Vietnam: Water Efficiency Improvement in Drought Affected Provinces (WEIDAP), 2016-2023

Indonesia: Flood Management in Selected River Basin Sector Project, 2016-2022

Green Cities; A sustainable Urban Future in Indonesia, 2014-2016

Sri Lanka: Disaster Risk Reduction at river outlets, 2015-2016

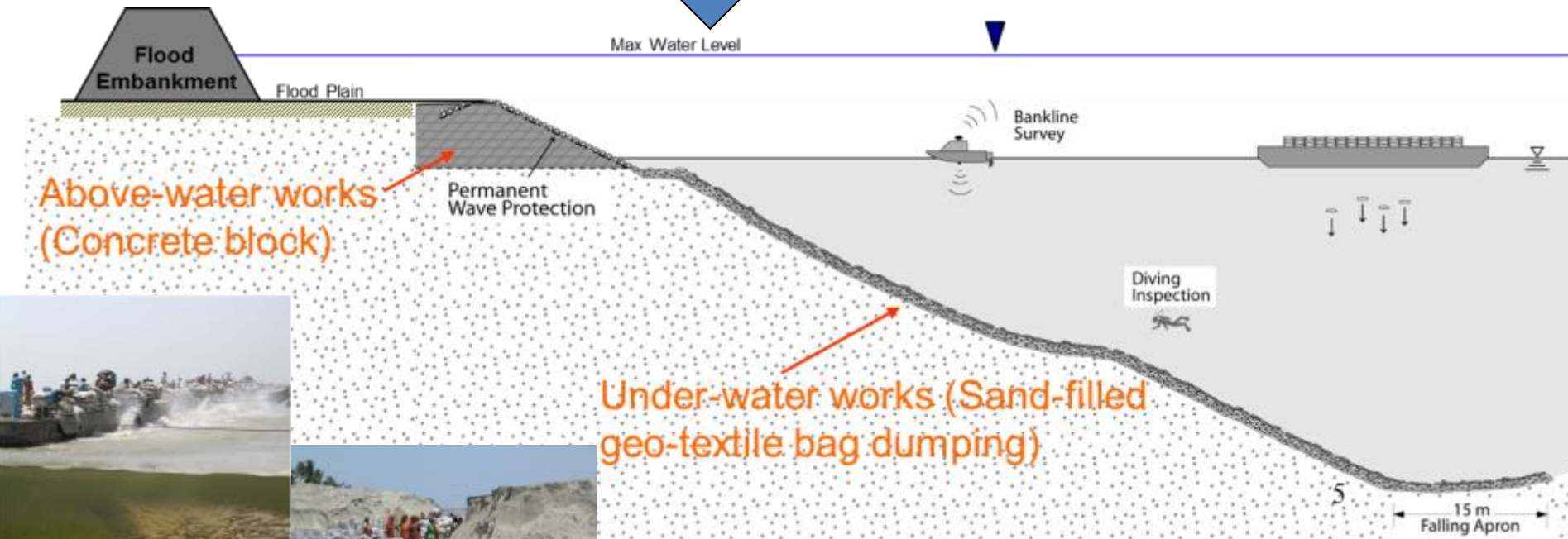
Assam Integrated Flood & Riverbank Erosion Risk Management-India

(2010-ongoing)



Non-Structural

Structural



PRC: Yellow River Flood Management Sector Project

PEOPLE'S REPUBLIC OF CHINA



Xiaolangdi Reservoir & lower
Yellow River Physical Model



Shandong Flood Command
Center



Emergency Warehouse

Flood Management
Facilities/ Capacity
Dev. (Part A)

Yellow Sea



Dongping Lake Embankment
Strengthening (179 km)



River-training works (179 km)



Vulnerable spots protection (55)

Flood Control Works
(Part B)

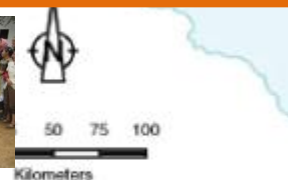
35°00'N



Platforms constructed (304 ha)
under 5 subprojects.



June 2008: 3,866 people to 6
platforms (TGT:36,303 people)



Preparedness/ Village Flood Protection
(Part C)

Pilot ecosystem-based flood risk management in Jiangxi Pingxiang

- Increase resilient, adaptive capacities to:

absorb¥store¥infiltrate¥purify water whenever raining, and to discharge and supply water when necessary

- Introduce payment schemes to compensate the upstream communities





PARTNERSHIP WITH REGIONAL THINK TANKS

ADB-JWF (JWF is a secretariat of APWF)

- ADB is one of APWF's knowledge hubs supporting organizations
- AWDO 2007 and 2013 were co-published by ADB and APWF.
- Cooperation in publishing the Framework Document on Water and CCA ([Nov. 2012](#)).
- Meta-guidelines for Water and CC co-published by ADB, APWF and GWP ([August 2015](#)).
- AWDO 2016 will be co-published by ADB and APWF this coming summer.

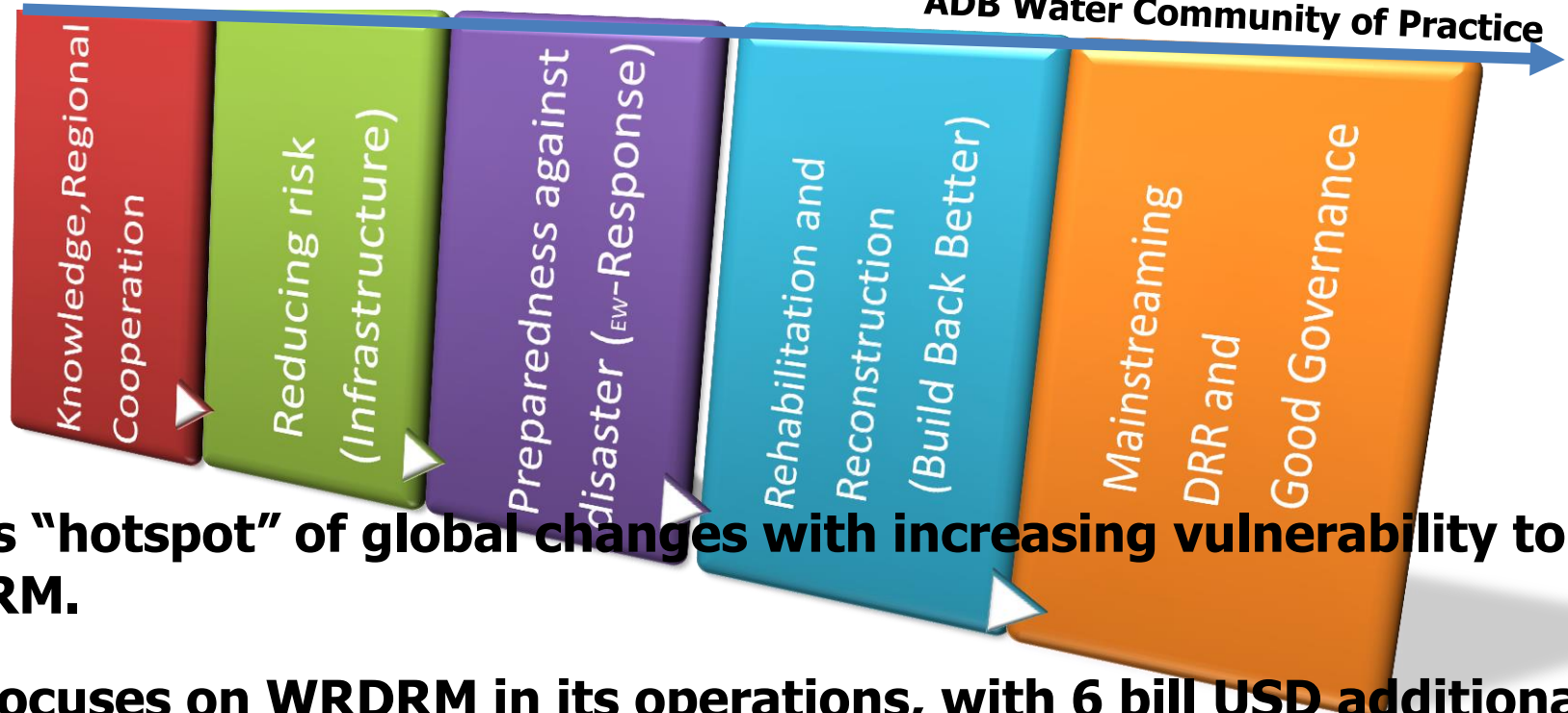
ADB-ICHARM

- ICHARM is the regional WKH of APWF for disaster risk reduction and flood management)
- ICHARM completed TA7276:REG-Supporting Investments in Water-Related Disaster Management as the Executing Agency under the technical assistance partnership agreement.
- Cooperated in publishing AWDO2013 as a partner organization (KD 5: Water-Related Disaster Resiliency)
- ICHARM is currently in charge of the Part-II component (flood risk management) of TA8456:MYA-Transformation of Urban Management.

ADB will seek more stronger ties and collaboration with regional partners and think-tanks, which is a key priority of ADB 2020 Strategy

CONCLUDING REMARKS

ADB Water Community of Practice



- Asia is “hotspot” of global changes with increasing vulnerability to WRDRM.
- ADB focuses on WRDRM in its operations, with 6 bill USD additional investment commitment, of which 2 Bil USD will be for CCA
- ADB well equipped with diff. instruments to support investment in WRDRM, compatible-SDGs, Climate Agreement, Sendai Framework.
- Eco-system based RM, innovative sol., cutting edge tech., DRM instruments & risk transfer mechanisms, IWRM are the priorities
- Goals cannot be achieved without strong cooperation and collaboration with regional think tanks including KHs

Thank You!

謝々