# HELP11 Workshop on Implementing DRR Recommendation of HLPW Outcome Document – with focus on the Alliance of Alliances -

How can Science & Technology Contribute to Resilient Economies, Societies & Disaster Risk Reduction?

#### **Toshio Koike**

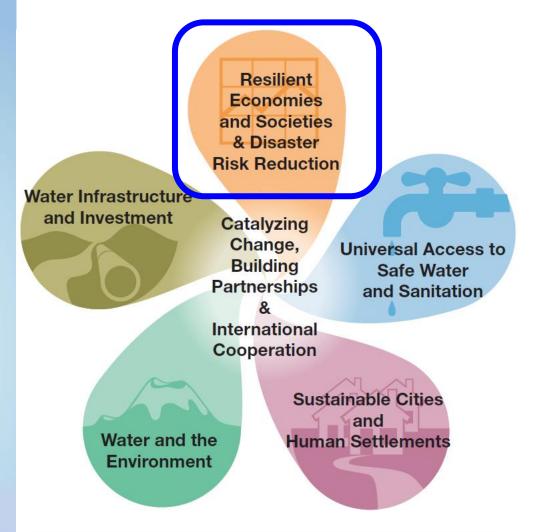
Director, International Centre for Water Hazard and Risk Management (ICHARM)
Council Member, Science Council of Japan (SCJ), Cabinet Office of Japan
Professor Emeritus, the University of Tokyo
Chair, River Council of Japan



An Agenda for Water Action

HIGH-LEVEL PANEL ON WATER OUTCOME DOCUMENT

14 March 2018









Shift focus of disaster management from response to preparedness and resilience.

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## Key Global Agendas

Understanding Governance Investment EW/BBB

## **Alliance of Alliances**

Sendai Framework on Disaster Risk Reduction September 2015 Development Goals

Paris (COP 21)

# Concerted Actions are Required

Reducing Current Risk Preventing Future Risk

Adaptation & Recovery

**Building Resilience** 



**Sustainable Development** 

a collaborative framework with existing alliances by linking efforts in research and education across national boundaries and disciplines.

## An Agenda for Water Action

- communications role
- analytical role
- catalytic role
- supportive role

HIGH-LEVEL PANEL ON WATER

OUTCOME DOCUMENT

### The Way Forward

National action is the essential ingredient for making the changes required to implement the water-related Sustainable Development Goals. Our recommendations are therefore primarily aimed at national political leaders and opinion leaders, in public and private sectors, who can determine and influence policy. Panel members' countries will actively promote the recommendations of the Panel in appropriate forums and engagements with other countries.

The urgently required change will be complex, multi-faceted and challenging, and often controversial, and require cooperation from all stakeholders. We call on all national leaders to initiate and guide a national water reform process and for others in leadership roles to support these efforts.

National action will also benefit from international cooperation. Trans-boundary and regional cooperation, as described earlier in this report, is vital for the 40% of the people of the world living in river basins which cross national borders.

We have identified a number of priority themes which are especially ripe for international cooperation, so that we share and learn lessons, and help countries to adopt and implement best practice. With this in mind, and without prejudice to the many other important and valuable initiatives underway, we highlight the following ongoing initiatives as being especially valuable to states and stakeholders seeking to implement our recommendations:

- World Water Data Initiative<sup>2</sup>
- The OECD Water Governance Initiative<sup>3</sup>
- The Delta Coalition<sup>4</sup>
- HELP, including an Alliance of Alliances on disaster risk reduction researches
- The initiative on Financing Water Infrastructure convened by the OECD<sup>6</sup>
- Water Innovation Engine<sup>7</sup>

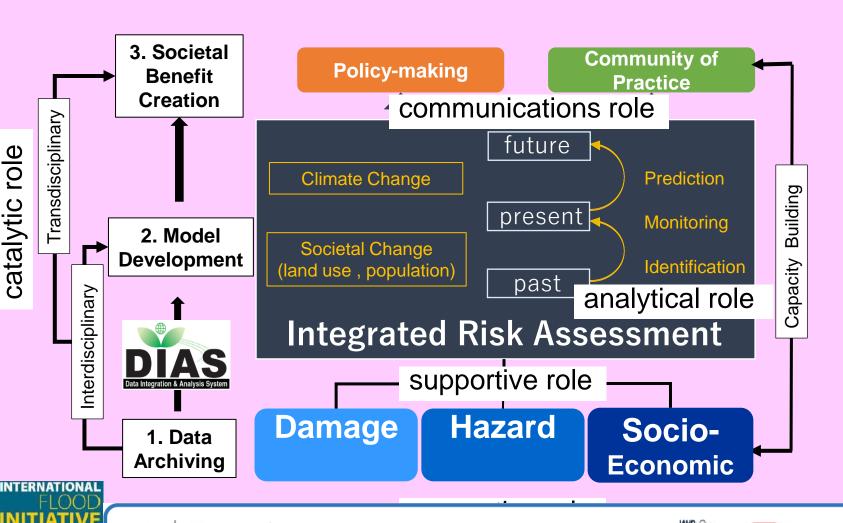
In addition, we encourage the launch of new cooperative initiatives in areas of critical importance to the new water agenda, such as:

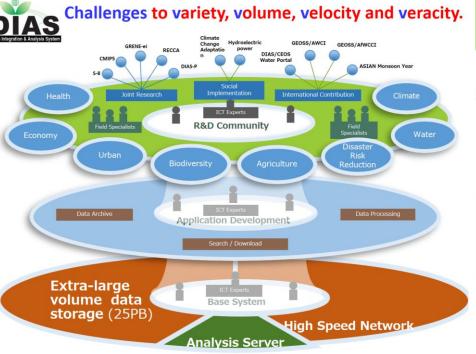
- A global leadership coalition on valuing water
- A water scarcity initiative, and
- An Africa water investment program.

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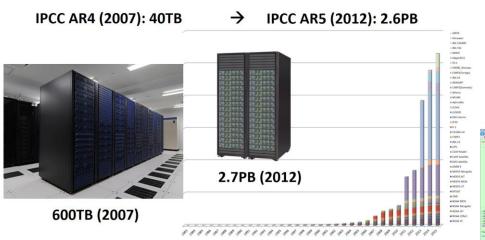
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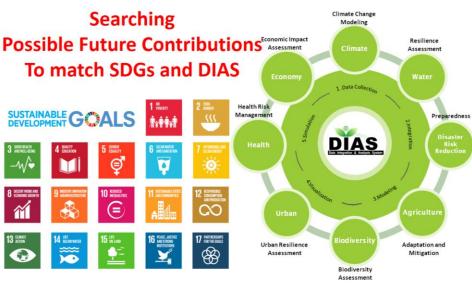


## Data Integration and Analysis System a legacy for Japan's contributions to GEOSS

# tackling a large increase in volume of the Earth observation data.



### **SDGs & DIAS Challenges**

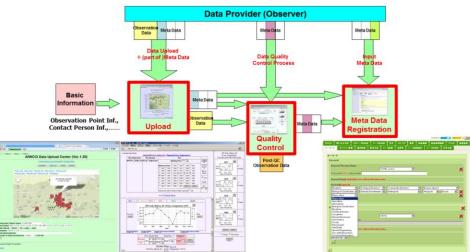


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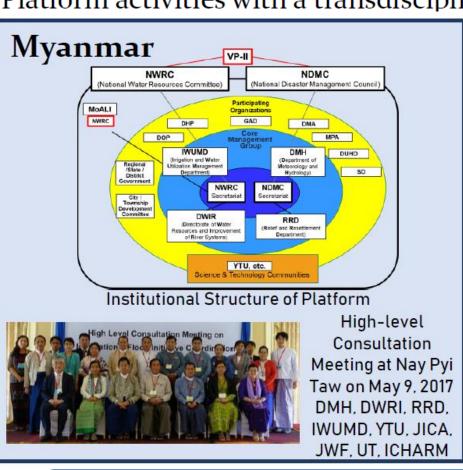
a legacy for Japan's contributions to GEOSS

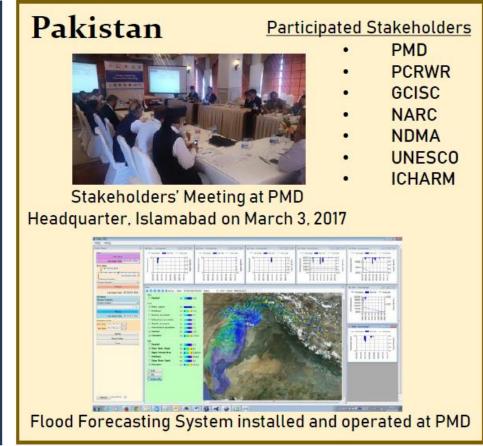
maintaining data veracity, including data loading, QC and metadata registration





Platform activities with a transdisciplinary approach in some Asian countries















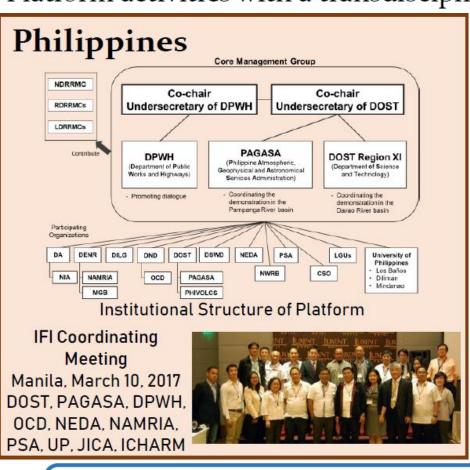


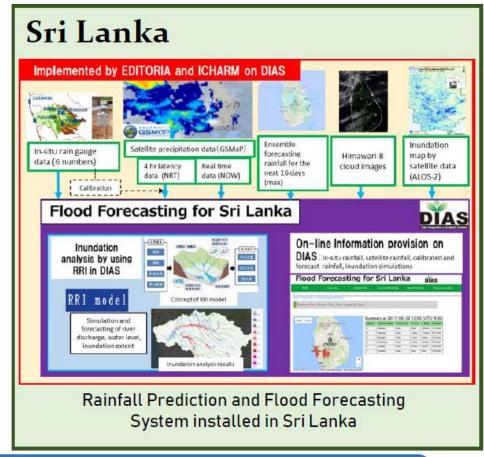






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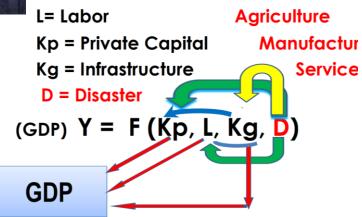
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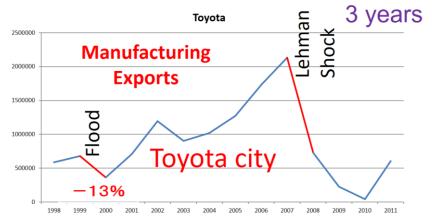
**Prof. Naoyuki Yoshino**, Dean, Asian Development Bank Institute (ADBI)

#### **Economic Effects of disaster**

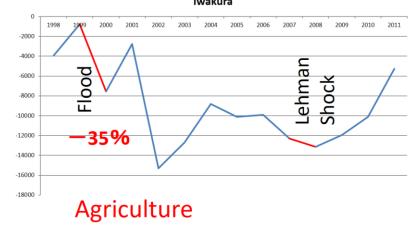
**Effects on Supply Side (Production** 



Difference in difference estimation coefficients, million JPYen (Exports)
Only 1 year damage: Lehman was bigger

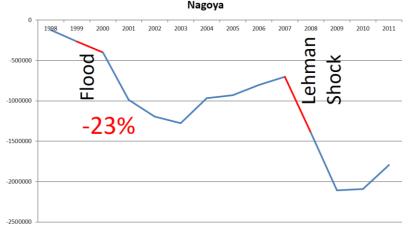


# Difference in difference estimation coefficients, million. JPY Agricultural Region: Big Drop It took 3 years for the recovery



# Difference in difference estimation coefficients, million. JPY

Services sector: 4 years decline



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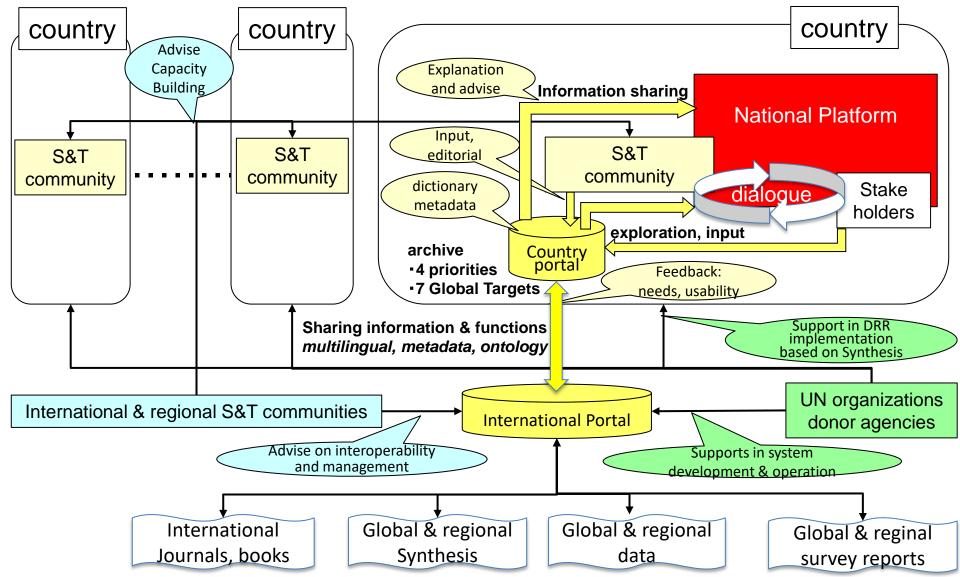
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Information Infrastructure for Nation's Synthesis on DRR

National Platform design practical measures based on S&T

discuss how DRR should be carried out

review the status and issues of the current DRR efforts

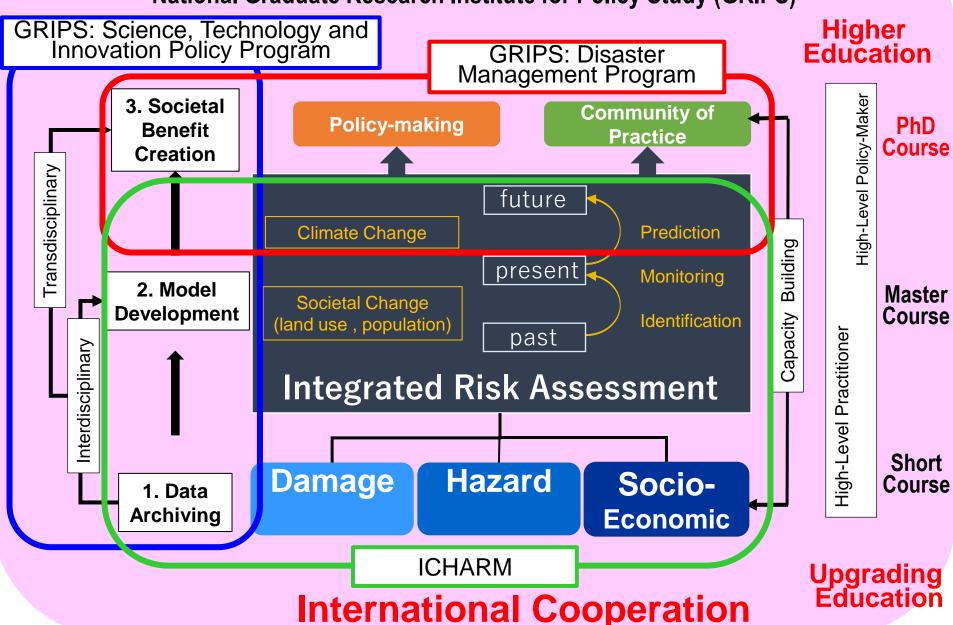


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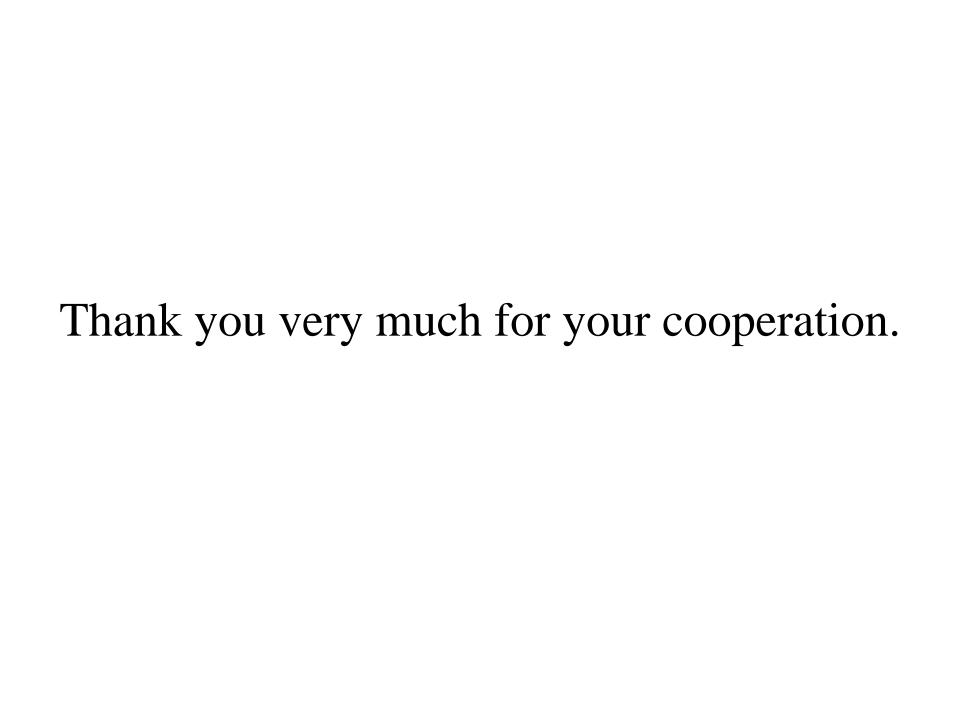
National Graduate Research Institute for Policy Study (GRIPS)



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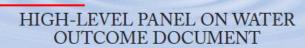
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## An Agenda for Water Action



14 March 2018

#### Preface

he United Nations and World Bank Group convened a High Level Panel on Water (HLPW) to provide leadership in tackling one of the world's most pressing challenges – an approaching global water crisis. As leaders of our organizations, the challenge we put before the Panel was to identify ways in which the world could accelerate progress towards ensuring the availability and sustainable management of water and sanitation for all (SDG 6) as well as to contribute to the achievement of the multiple SDGs that also depend on the development and adequate management of our planet's water resources and thereby achieve the 2030¹ Agenda.

To ensure the highest level of political leadership, we invited 11 sitting Heads of State or Government, as well as a Special Advisor, to lead the Panel for a two-year period starting in April 2016.

During the United Nations General Assembly in September 2016, the Panel issued an Action Plan which called for a fundamental shift in the way the world looks at and manages water. Since then, the Panel members have explored ways to implement this Plan and have taken initiatives in many of the action areas, leading by example. This report presents a summary of the Panel's findings and recommendations.

Today, as we write this Preface, some parts of our planet are suffering from the misery of drought while others endure the destruction of floods. Climate change is exacerbating natural variability of the water cycle, increasing water stresses that constrain social progress and economic development. Our health, food security, energy sustainability, jobs, cities, and the ecosystems on which all life is based are all being influenced by the way water is being managed in different parts of the world.

The Panel's recommendations call for all stakeholders to be involved in crafting responses to these challenges, and to build on the work already underway. Governments will need to take the lead in many cases, including in cooperating across national boundaries, but citizens, civil societies, the private sector, and international organizations also have vital roles to play in meeting these challenges. At stake is our human right to access to safe drinking water and sanitation and our future survival. The International Decade for Action "Water for Sustainable Development", 2018–2028 gives new inspiration and opportunity to accelerate and enforce our efforts in this direction.

The Panel members and their respective member states have committed to take action on water, and are inviting their peer leaders, as well as other policymakers, and leaders from civil society and the private sector to find creative and collaborative solutions to better manage and value water. We wholeheartedly endorse this urgency to act.

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