

Second UN Special Thematic Session on  
**Water and Disasters**

**Science and Technology to  
Advance DRR on Water**

*moderated by*

Science Council of Japan (SCJ)

and

International Centre for Water Hazard and Risk Management  
(ICHARM)

# Our Present Status

- **Human factors** such as population growth, poverty, urbanization and changes in land use are aggravating negative consequences of water hazards which become more intensive and frequent by **climate change**. The critical losses happen in **both developed and developing countries**.
- The **trans-boundary river** matters are critically challengeable. In addition, the impact of an event immediately crosses borders and can lead to cascading consequences in this **inter-connected world**.
- Although we have increased scientific knowledge and technology, we have **not been successful** in demonstrating concrete methodologies for flood and drought risk reduction.

# Concerted Action is Required

- The world knows that countries cannot act in isolation to address these risks.



**Sustainable  
Development**

Management of Disaster & Environmental Risks

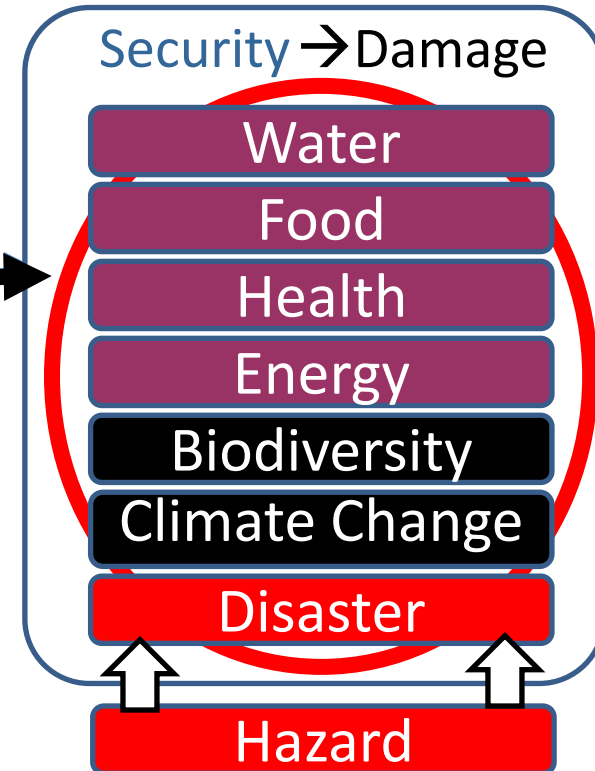
Preventing  
New Risk

Reducing  
Current Risk

Building  
Resilience

What and How Can Science and  
Technology Contribute to the DRR?

Human Security  
Well-being



# Key Questions

1. How can we activate regional and inter-agency cooperation for flood and drought risk reduction? We could try to identify the barriers and ways for getting over them.
2. How can we realize the SDGs through the way for disaster risk reduction? We would identify model cases and summarize our concept.

# Panelists

1. National and Regional Flood and Drought Issues
  - Dr. Carlos Nobre, President of CAPES, Agency for Graduate and Post-Graduate Education of Brazil
  - Dr. Wadid Erian, Senior Advisor, League of Arab States
2. Contribution by the Earth Observation Communities
  - Mr. Kiyoshi Higuchi, Senior Technical Advisor, Japan Aerospace Exploration Agency (JAXA) and President, International Astronautical Federation (IAF)
3. Activating International Initiatives
  - Dr. Johannes Cullmann, Director, Climate and Water Department, WMO
  - Dr. Blanca Jimenez-Cisneros, Director, Division of Water Sciences, Secretary of the International Hydrological Programme, UNESCO