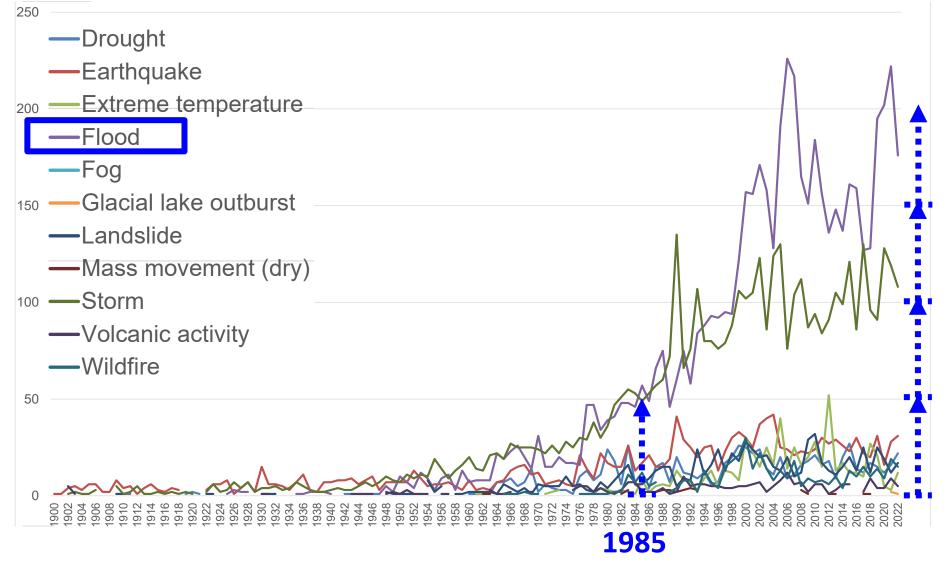
# **Transformative Steps**

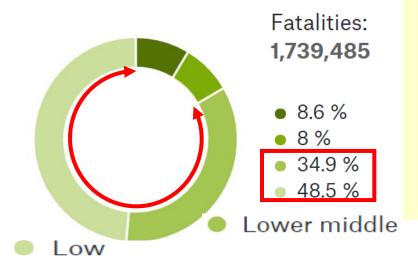
# **Toshio KOIKE**

Executive director, International Centre for Water Hazards and Risk Management (ICHARM) Public Works Research Institute (PWRI) Professor Emeritus, the University of Tokyo Chair, River Council of Japan, National Land Development Council Council Member, Science Council of Japan, Cabinet Office of Japan

#### Number of Loss Events Worldwide (EM-DAT)

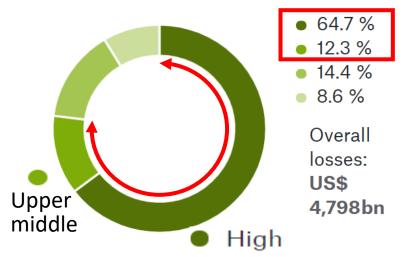


It is unequivocal that human influence has warmed the atmosphere, ocean and land. (by IPCC/AR6/WG1, 2021) Overall Human Loss Events Worldwide 1980-2018



The 2030 Agenda We are determined to take the bold and transformative steps which are urgently needed to shift the world onto a sustainable and resilient path. As we embark on this collective journey, we pledge that no one will be left behind.

#### Overall Economic Loss Events Worldwide 1980-2018



Economic losses (relative to GDP) caused by climate-related disasters, 1998-2017 (%)



3

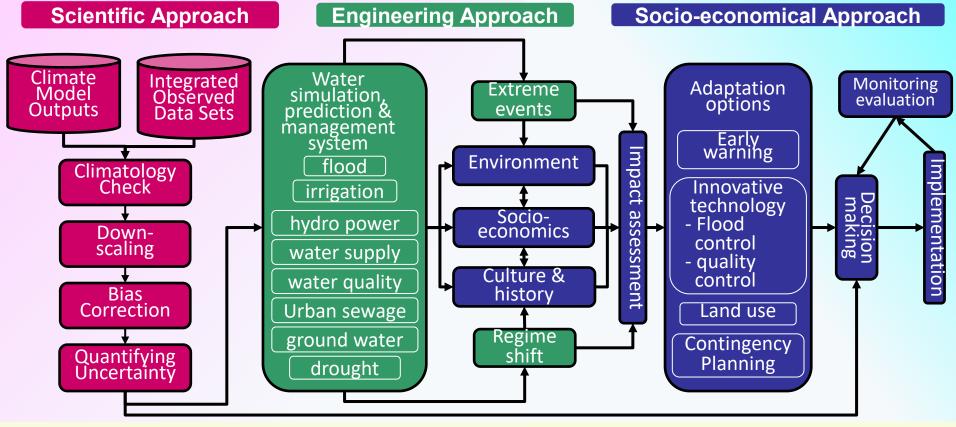
#### 'End to End' approach.

## Science & Technology

- Integrated and coordinated Earth observations Early warning and quick response Climate change impact assessment (d4PDF) Adaptation/mitigation mixture Sustainability and resilience by all

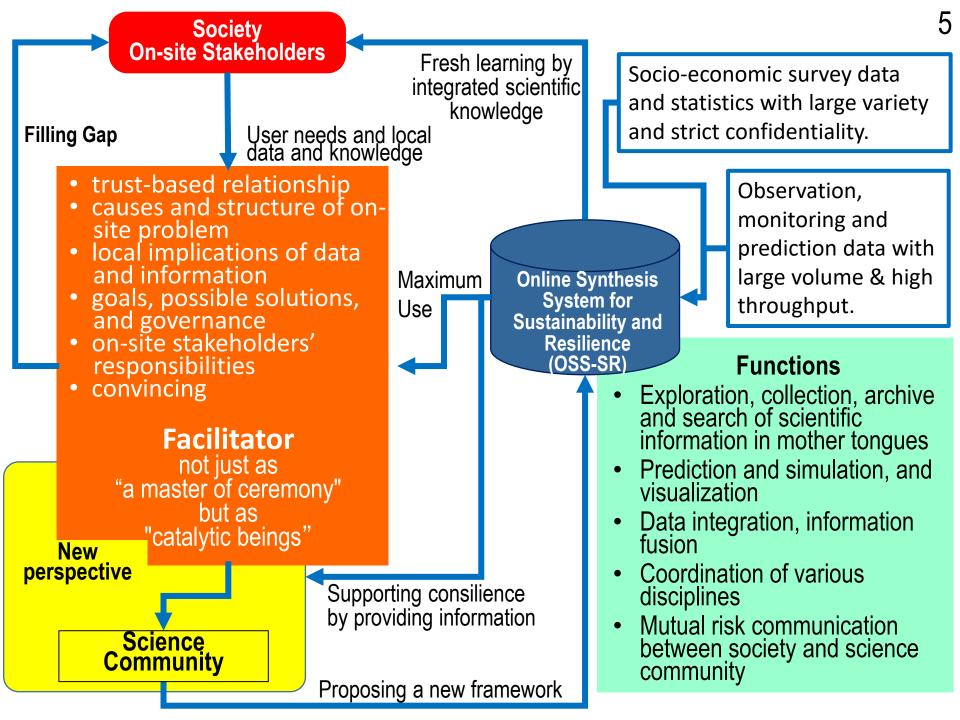
#### Governance

- Policy coherence
- Capacity
- Data and information
- Trade-offs
- Monitoring and evaluation



- Water supply and sanitation services
- Irrigation infrastructure

- Finance
- Tariffs, taxes, and transfers
  - Payable financial source
- Private sector: RE100, TCFD





UN 2023 Water Conference 22 – 24 Mar 2023, New York









Yoshiro Mori, President of the APWF and former Prime Minister, Japan

Emperor and Empress of JAPAN

Antonio Guterres, UNSG

Fumio Kishida, Prime Minister, Japan

18 Heads of State and Government, including Presidents, Prime Ministers and Deputy Presidents, as well as 19 government ministers, who attended either in person, virtually, or via video message.

#### Kumamoto Declaration

- Require transformation into quality-oriented societies that are resilient, sustainable, and inclusive.
- Improve governance, close the financial gap and appeal to the science and technology community.
- Explore what role science and technology should play in the cross-sectoral decision-making of leaders.

### Chair's Summary

Promote water cycle consilience by accelerating the Open Science policy, particularly focusing on observation, modeling and data integration;



- Foster "Facilitators," that is, catalytic beings who can lead the way toward resolving problems by providing professional advice on-site using a broad range of scientific and indigenous knowledge;
- Work together beyond disciplines and sectors among different levels while taking an end-to-end approach.