

Water and Peace

Mikio Ishiwatari, PhD, Meiji Univ.

Reducing water-related disaster risk to build a sustainable society

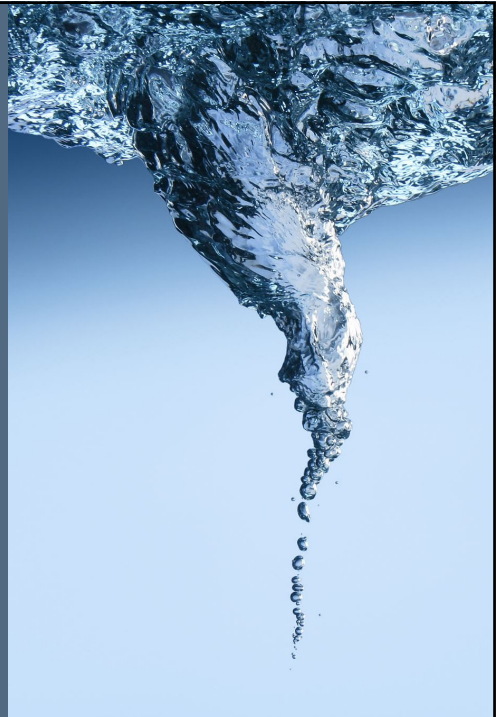
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COURSE DESCRIPTION WATER AND PEACE

Water: **source of conflict** between regions, countries, and local communities over water distribution, responses to flooding and pollution

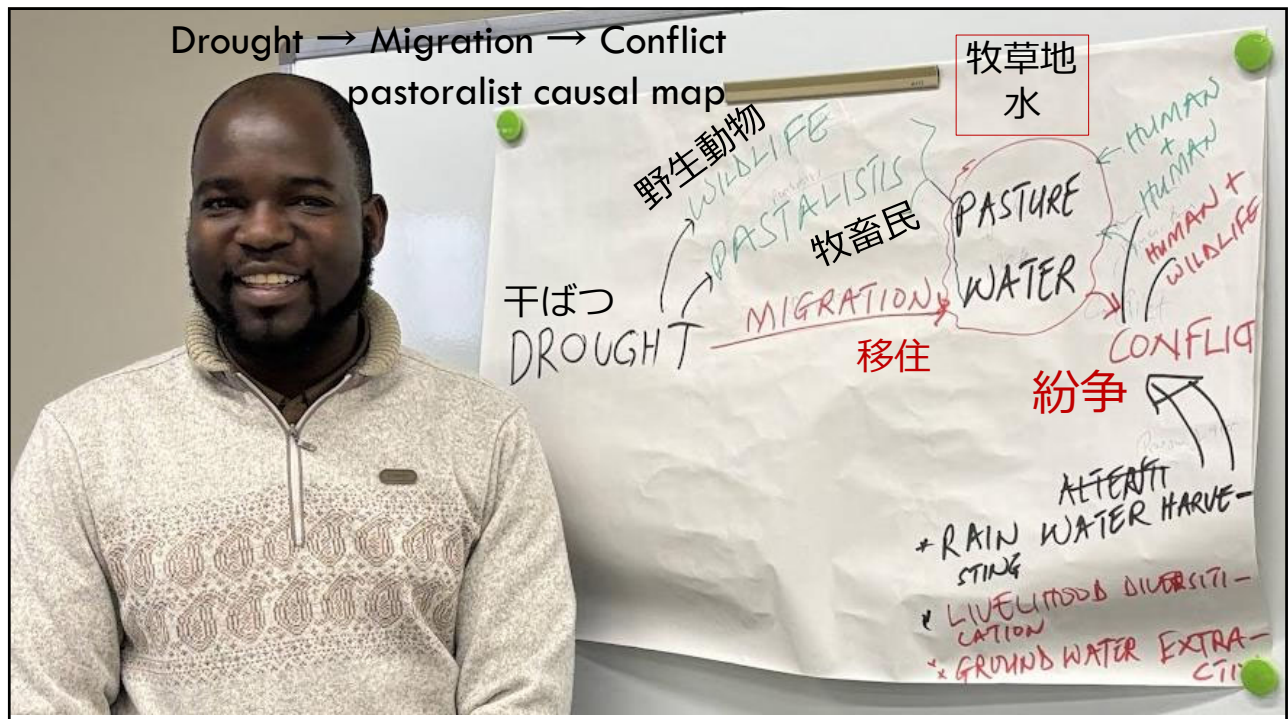
exacerbated by **socioeconomic factors** such as population growth, urbanization, industrial structure; amplified by **climate change**.

Tool for peacebuilding: management of water cycle promote cooperation



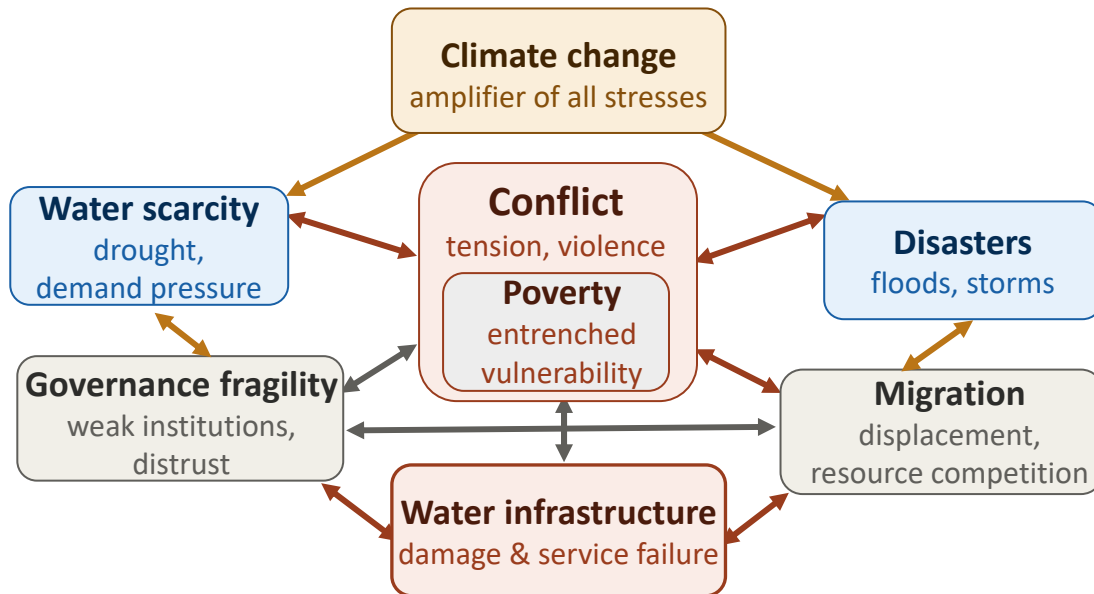
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1. Conflict disrupts water service, further growth
2. Disasters build peace
3. Japanese experience, useful?

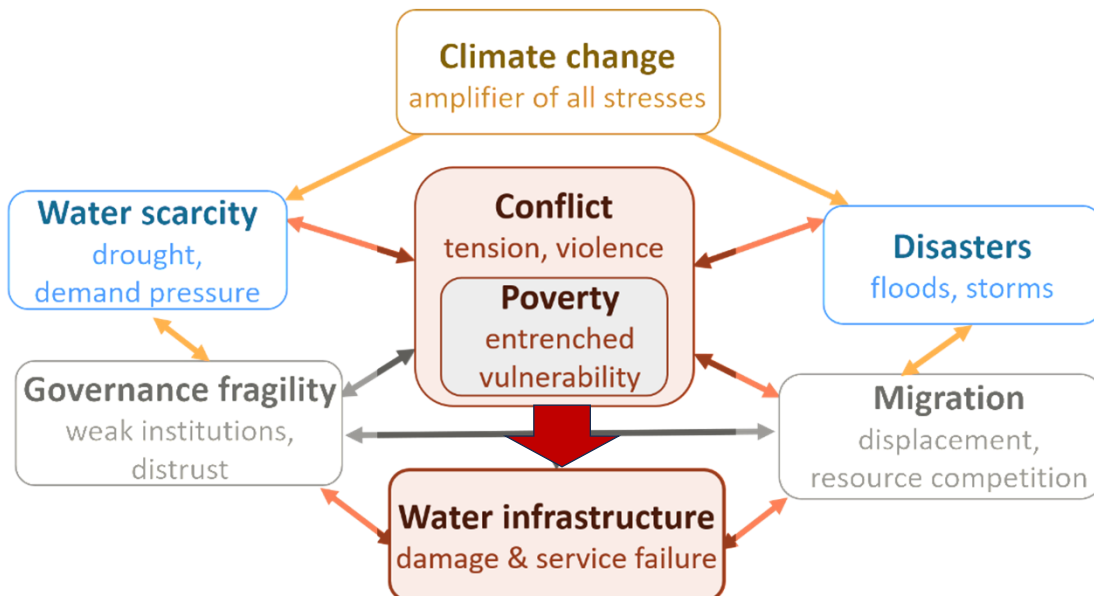


Water–Conflict–Climate Nexus

A web of mutually reinforcing drivers —one factor aggravating another

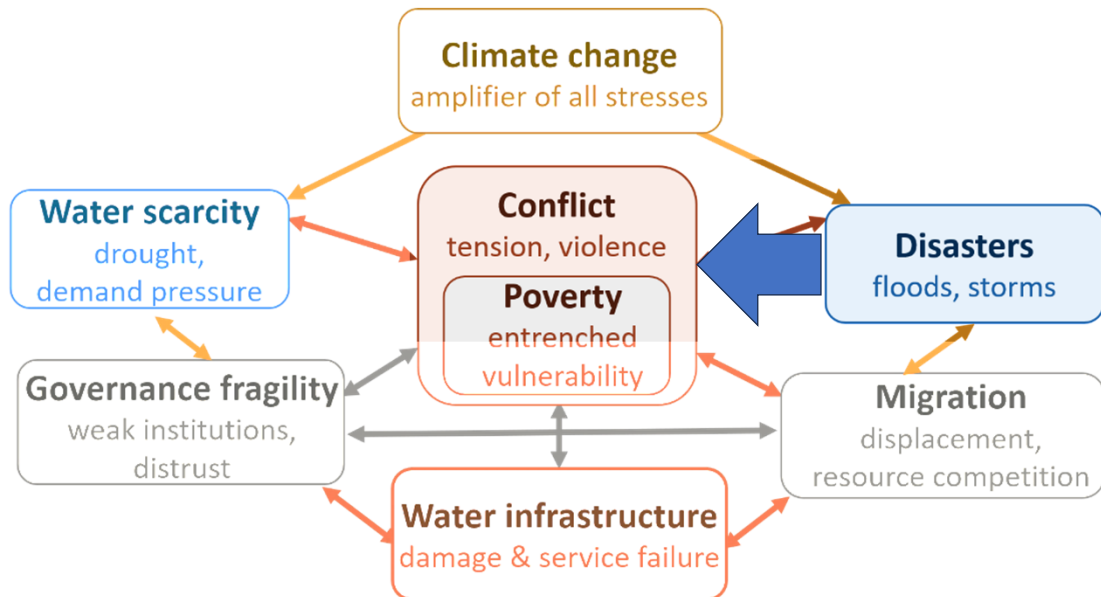


1. Conflict disrupts water service, further growth





2. Disaster Diplomacy



Indonesia Banda Aceh Tsunami built peace



3. Japanese experience, useful?

Conflicts over millennium created water governance

- Water right system: Customary rights (慣行水利権)
- Unspecified water developed by dam (不特定用水)
- Drought management committee by river basin: distribute water according to rules created (渇水調整会議)
- Fund supported by beneficiaries downstream (流域基金)
- Land Improvement Districts (土地改良区)
- Timed water rotation (番水・線香水)
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<https://www.maff.go.jp/chushi/kids/kagawa/rekisi.html>

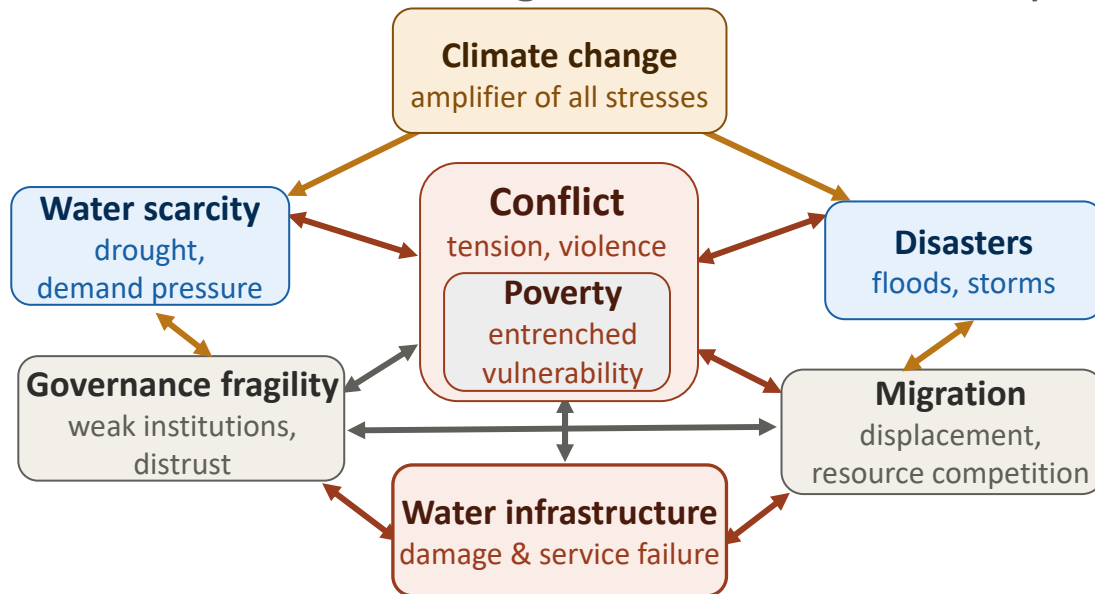
Comprehensive development in Lake Biwa and Yodogawa Upstream vs. Downstream

"We can stop the water from Lake Biwa!" (琵琶湖の水、止めたるか)

	Lake Biwa (Shiga)	Downstream (Kyoto/Osaka)
Flood Water	Release quickly downstream	Store water in the lake
Water Supply	Keep level stable	Vary levels like a dam
Water Quality	Improve lake environment	—
Regional Dev.	Invest in local infrastructure	—

Water–Conflict–Climate Nexus

SUMMARY: Where can governance break this cycle?



Thank you Mikio Ishiwatari
Ishiwatari@meiji.ac.jp

