



Presentation from
**2016 World Water
Week in Stockholm**

www.worldwaterweek.org

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Attaining Water Security in Fragile Contexts

Stockholm World Water Week Seminar

Water security in a changing world: coping with threats

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WORLD BANK GROUP

Water

What is water security and why does it matter?

What is water security?

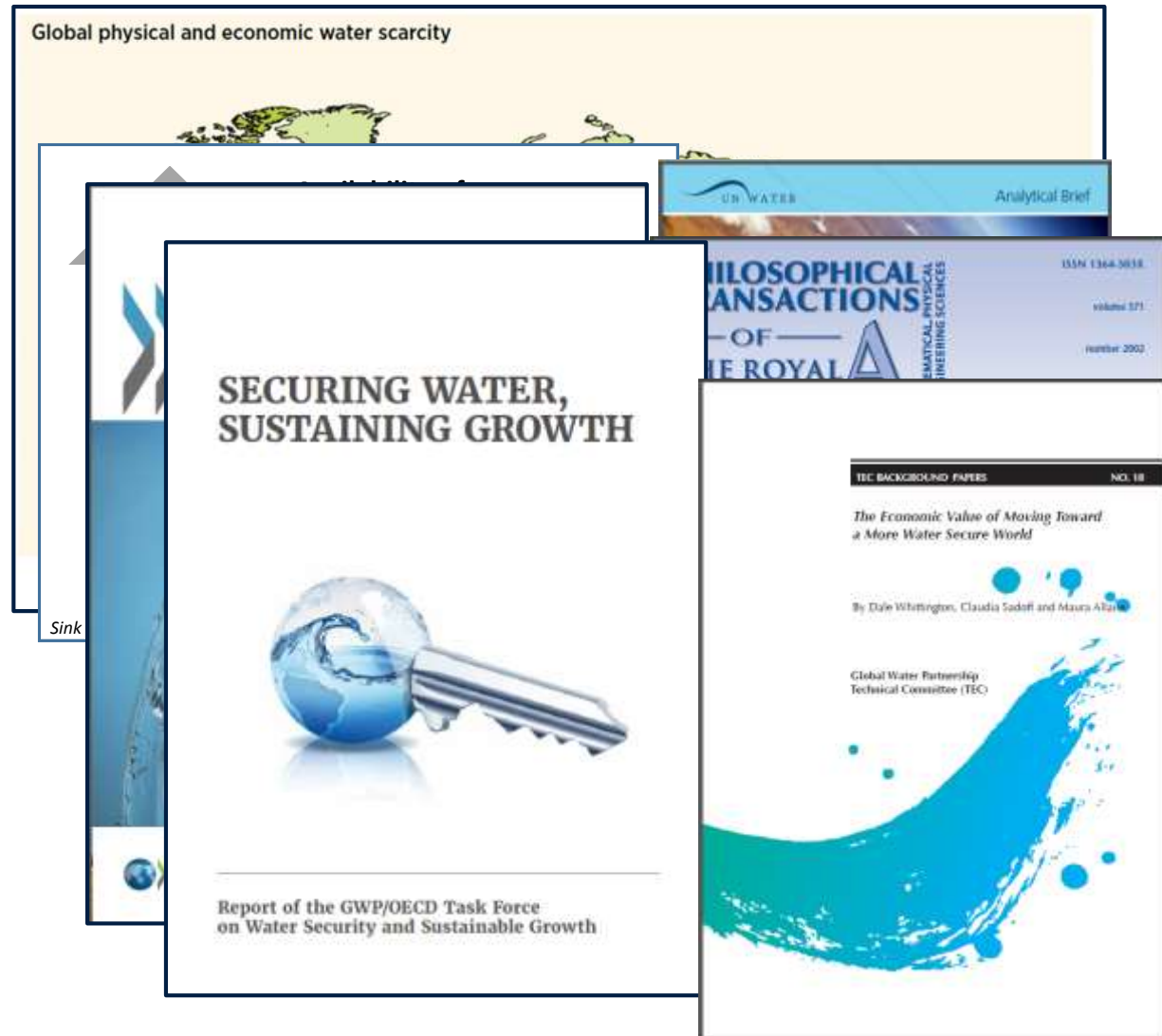
Many definitions

Availability of water

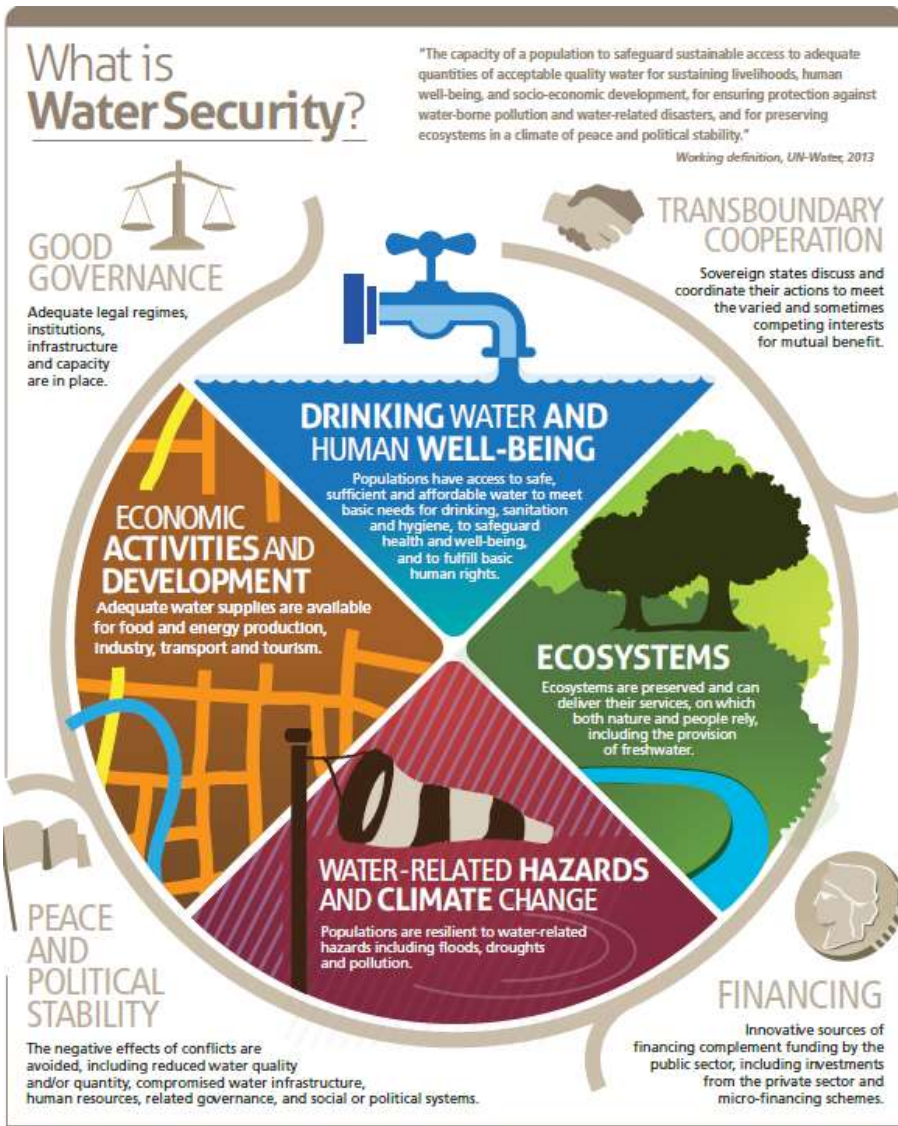
Leveraging productive & managing destructive

Managing water risks

Delinking hydrology & growth



What is water security?



Water security is a dynamic goal

- Harness the benefits of water
- Manage the risks of water
- In a complex, dynamic context
- Greater scarcity
- Greater uncertainty

What is water security?

Many (nested) levels

International level –
transboundary waters

National level –
across federal states

Basins ...

Cities...

Users...

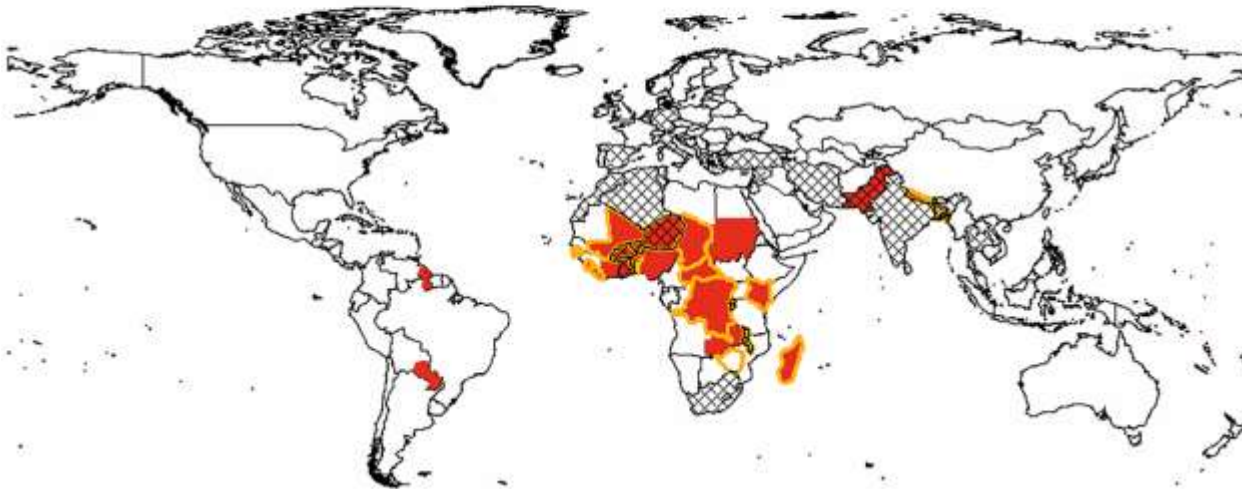
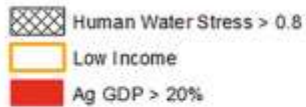


Why does it matter?

Global econometric analysis confirms a **causal** impact:

Water insecurity acts as a drag on growth

undermines well-being
and disproportionately harms the poor

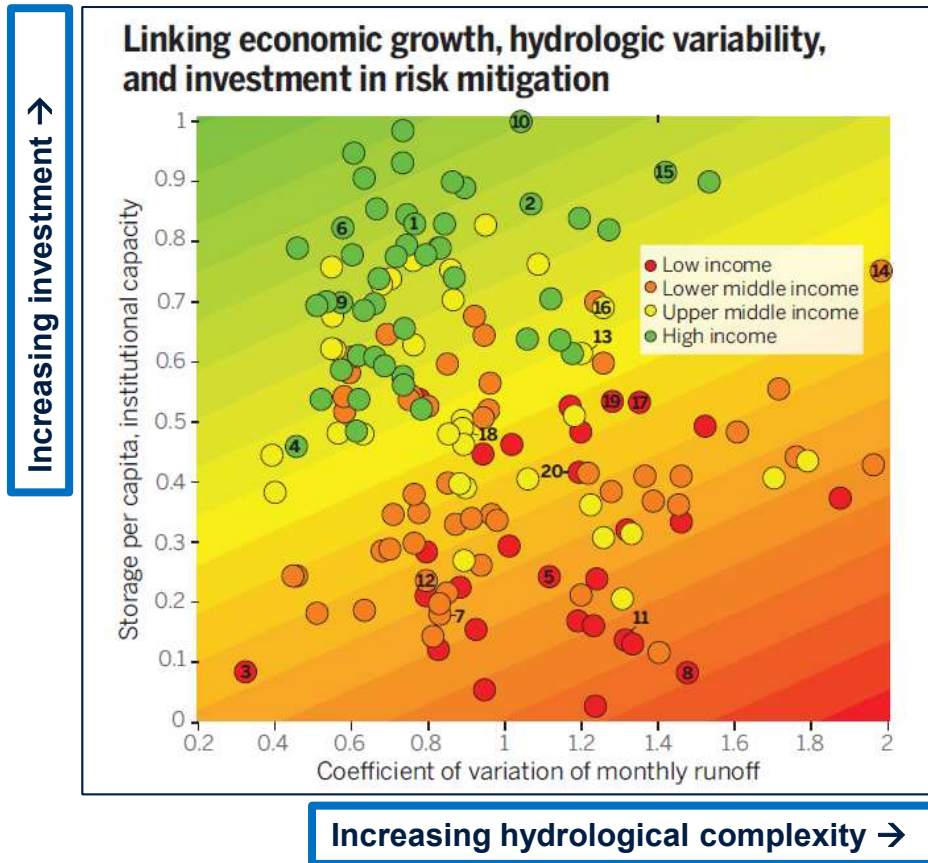


Effect is greatest in countries:

- High water stress
- Low incomes
- High % of ag GDP

Why does it matter?

Challenge is generally greater for the poor



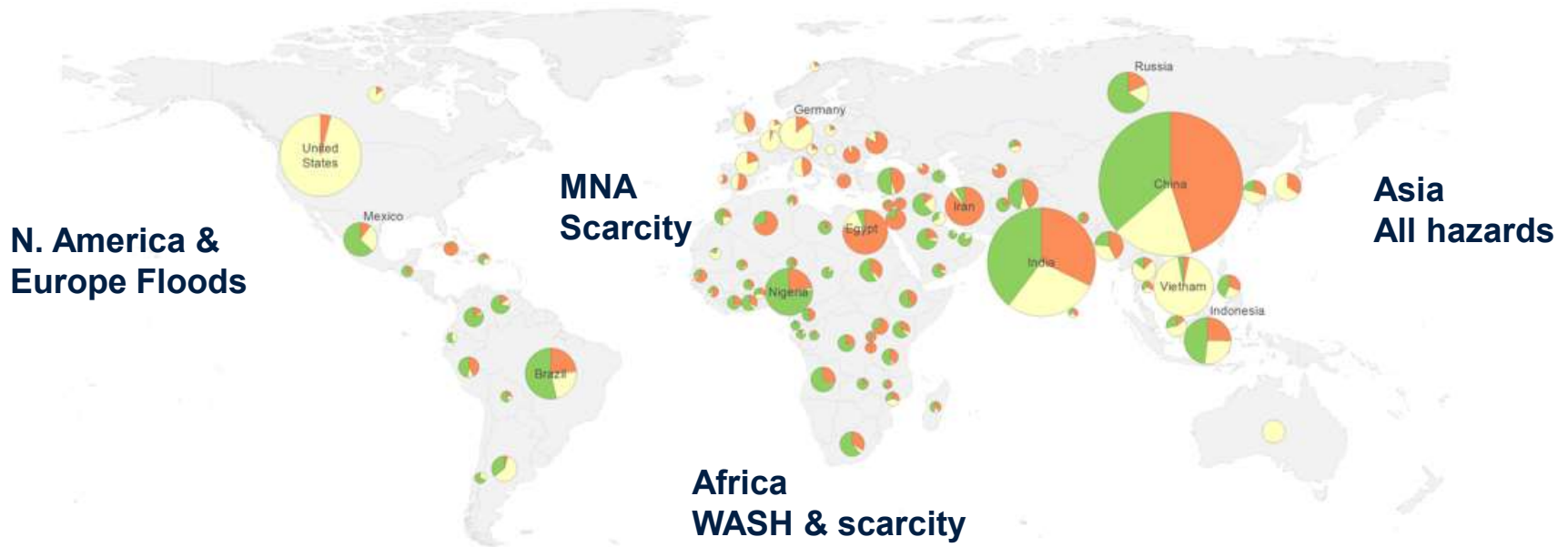
Wealthy economies (green dots)
face simpler hydrology & have
made more investments

Poorest countries (red/orange dots)
face great challenges
& have little investment

Why does it matter?

Water (in)security is challenging everywhere




Hundreds of \$billions/yr at risk



Relative economic risks

(3 risks standardized to the same total economic impact globally)

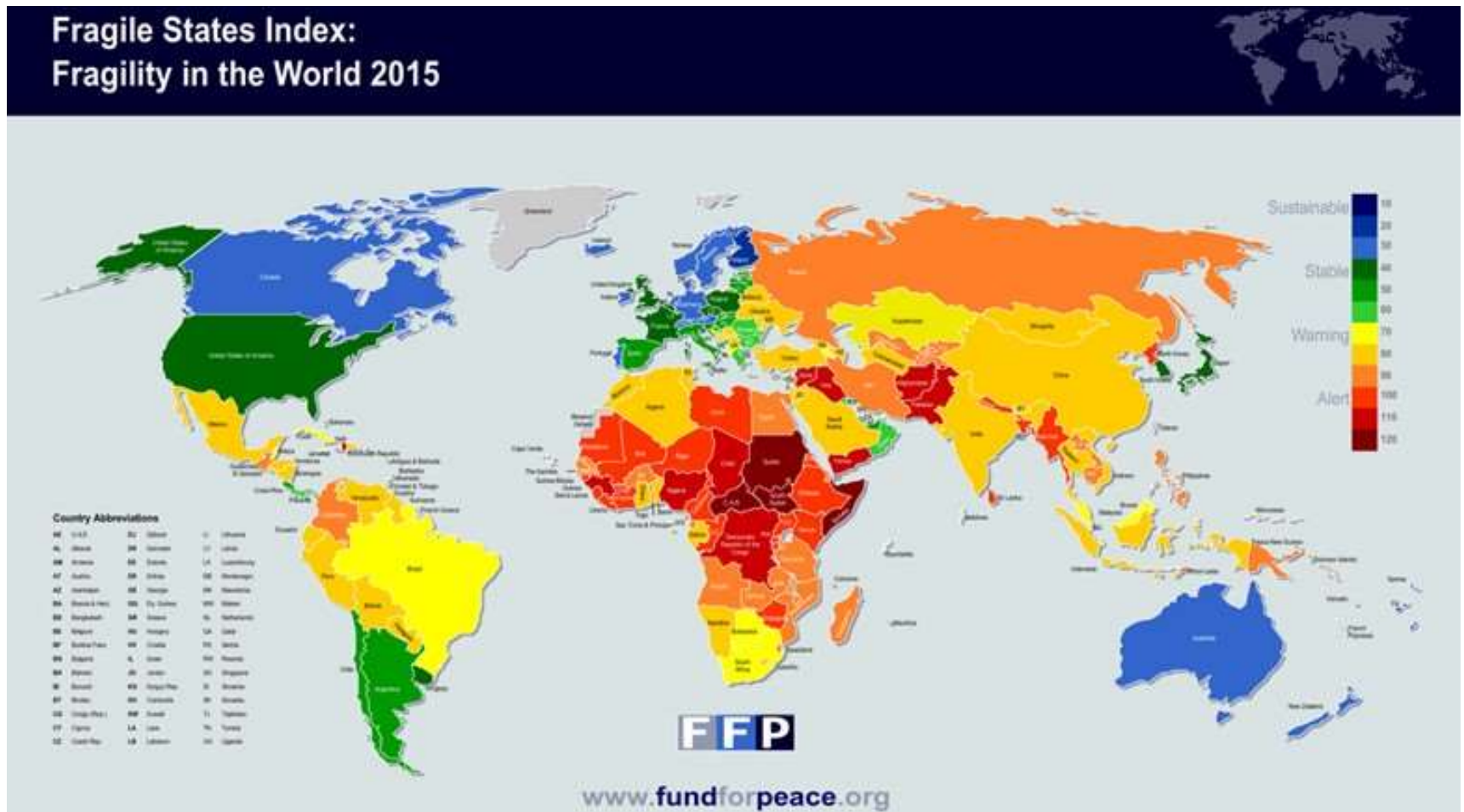
Total economic impact

-  Economic impacts of water scarcity for agriculture
-  Economic impacts of flooding
-  Economic impacts of inadequate water supply and sanitation

What are the dynamics of water *insecurity* and fragility?

Fragility

Almost **half of the world's poor** are expected to live in countries affected by fragility, conflict & violence by 2030



Dynamics

A vicious circle of water insecurity in fragile situations

More destabilizing to fail

More difficult to achieve





- Failure to provide services
- Failure to protect against hazards
- Failure to preserve adequate resources



Failure to provide water services

28% Fragile states on track for water MDGs

61% Non-fragile achieved water MDGs

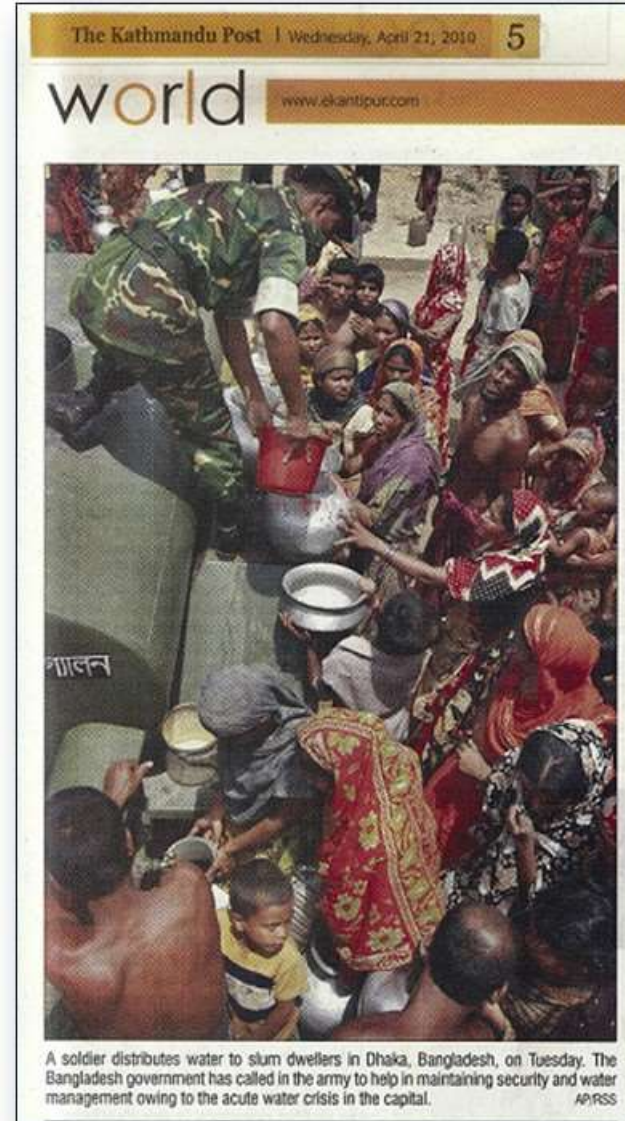
(OECD 2015)

More difficult to achieve

- Costs are high
- Limited resources (focused on security)
- Weakened institutions & social systems
- Gains reversed by destruction & migration

More costly to fail

- Weakens the social contract
- Exacerbates inequities
- Compounds marginalization



Failure to protect against water-related hazards

Where economic growth is impacted by rainfall, **episodes of droughts & floods have generated waves of migration & spikes in violence** within countries

(World Bank, 2016)

More difficult to achieve

- Weak preparedness
- Limited resources
- Territorial access

More costly to fail

- Vulnerable populations
- Potential to spur rapid population shifts
- Potential to exploit gov't failure
- Perceived marginalization

Proceedings of the National Academy of Sciences

nature International weekly journal of science

Researchers Link **Syrian** Conflict to a Drought Made Worse by Climate Change

Researchers said Monday that a recent extreme drought in **Syria** was most likely linked to climate change, and that the drought was a factor in the violent uprising there.

SPIEGEL ONLINE INTERNATIONAL

Taliban Courts Pakistan Flood Victims: Race to Provide Aid Emerges Between West and Extremists

By *Hasnain Kazim*

August 16, 2010

Today's seminar:

Water insecurity can compound situations of fragility

Addressing water insecurity may help promote stability & resilience

How can water more effectively contribute to the challenges of development in fragile systems?



Thank you