

The international dimension of water management: the example of the World Bank

Water JPI Workshop
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WORLD BANK GROUP
Water

Globally, water is in crisis...



Too much



Too polluted



Too little

... and the pressures and extremes are increasing



By 2030, demand for water is expected to exceed supply by 40%
The 2030 Water Resources Group Report



**Climate
change**



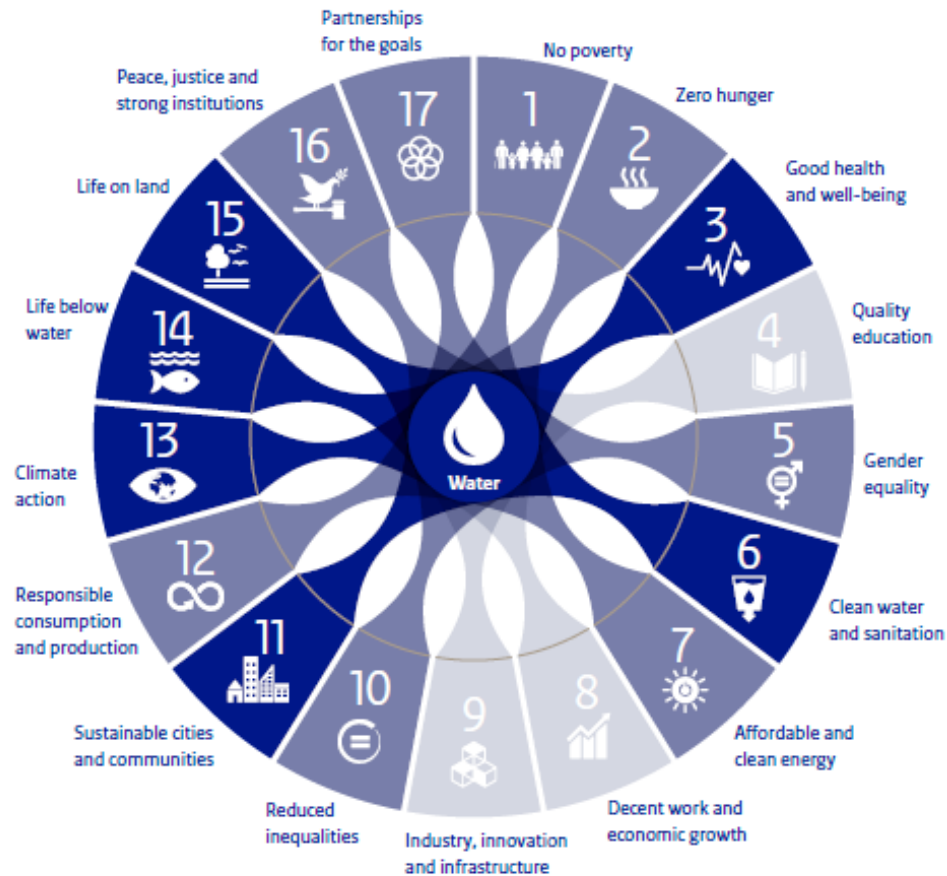
**Population
growth and
urbanization**



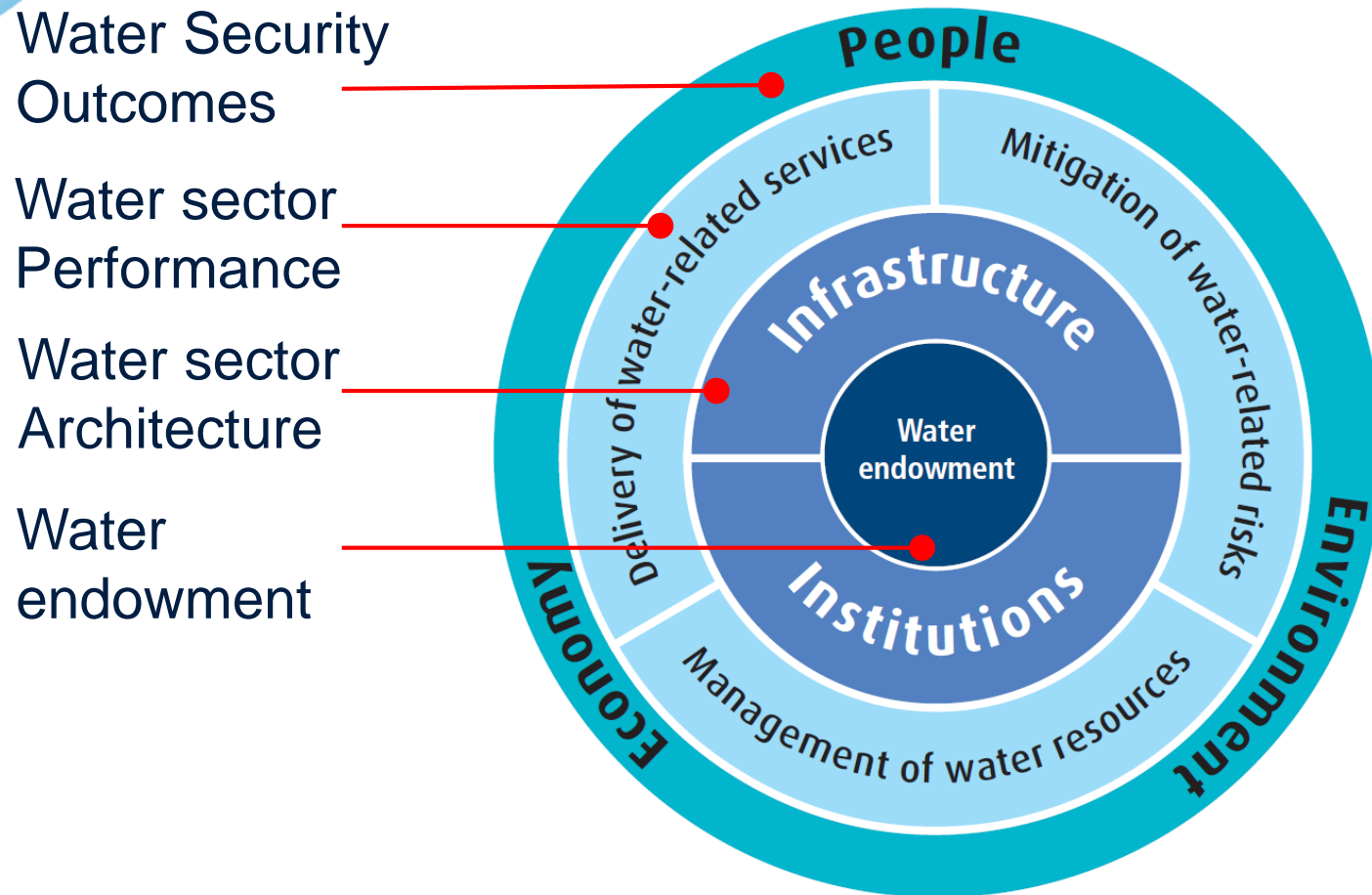
**Consumption
patterns and
pollution**

“Water and climate resilience are two sides of the same coin.”

Water: Critical for achieving SDGs and climate commitments



World Bank Water Security Diagnostics Framework



- Optimize outcomes for **people, economy and environment** in the light of global, regional and local changes, including
- ▶ Socio-economic development patterns, and
 - ▶ Climate change

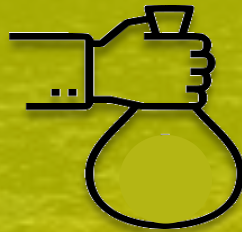
Entry points for action? **The three 3 I's:**



INFORMATION



INSTITUTIONS

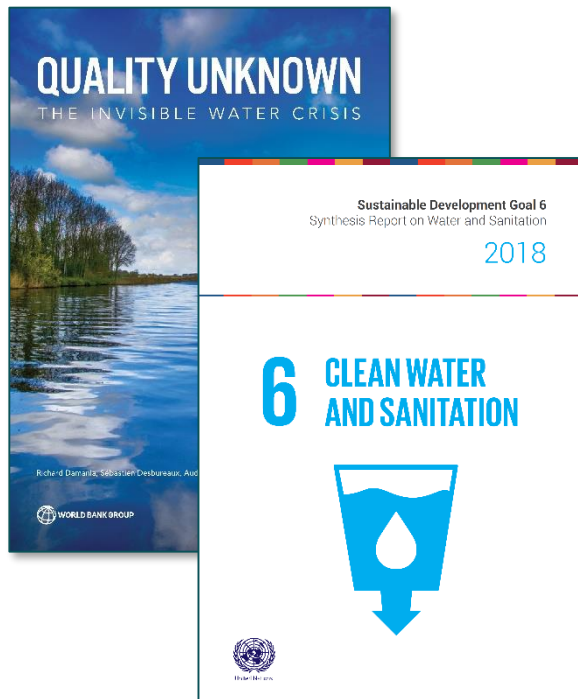


INFRASTRUCTURE

Information (gap)

“The goal is to turn data into information, and information into insight.”

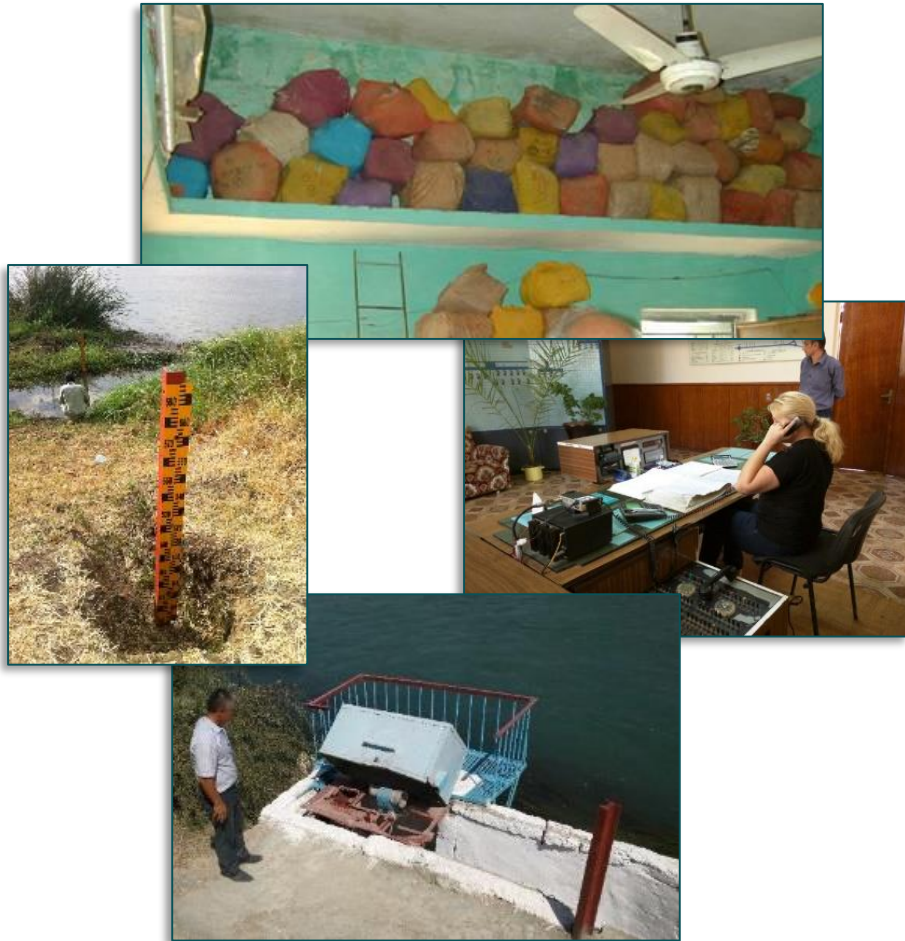
Carly Fiorina, former president and chair of Hewlett-Packard Co



- **Deteriorating water quality** stalls economic growth, worsens health conditions, reduces food production and exacerbates poverty in many countries
- Lack of clean water **limits economic growth up to a third**
- Comprehensive reporting on SDG indicators impeded by **major data gaps**

Data, new technologies, opportunities

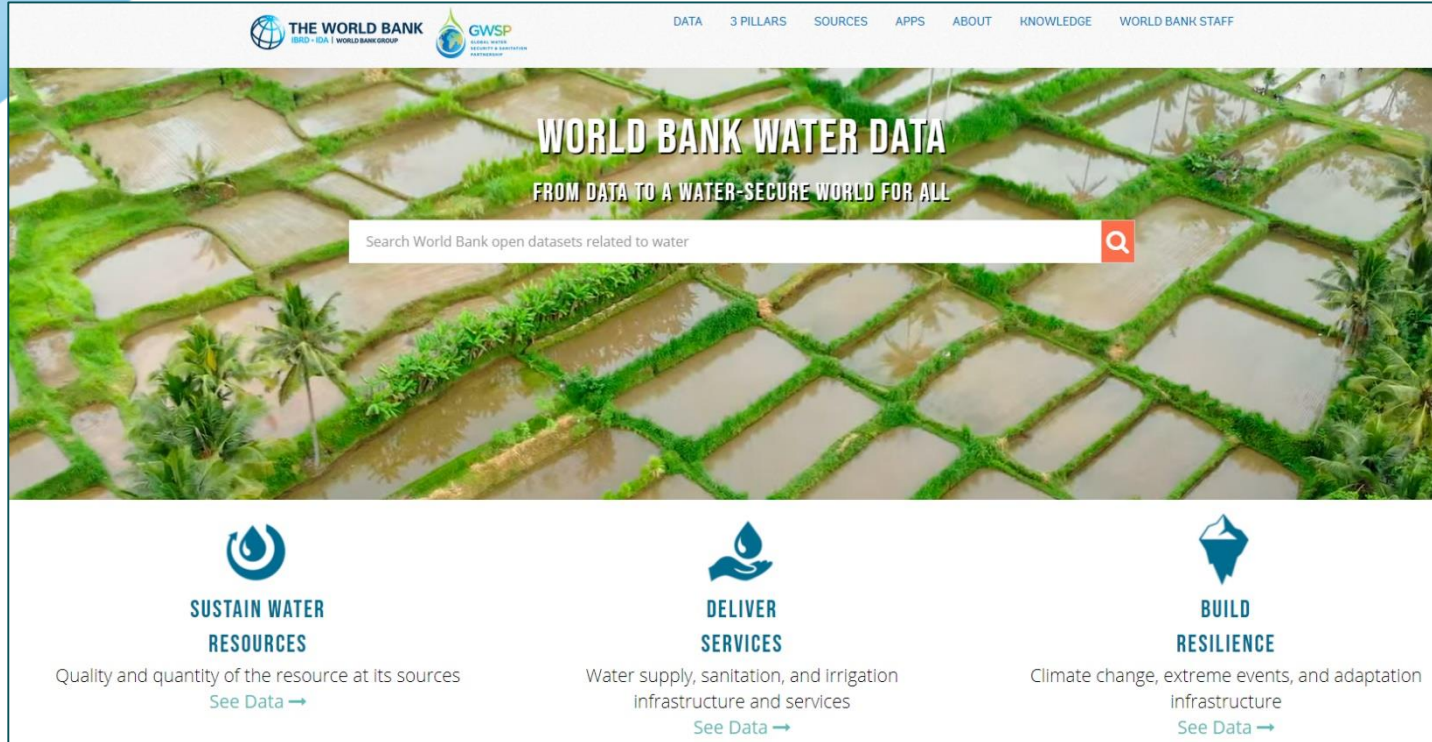
Before...



After...



Water Data



<https://wbwaterdata.org/>

- **World Bank Water Data Portal** just launched and further developed
- One-stop shop for all **water-related open data** at the World Bank
- IBNET, SIASAR, GFDRR, OECD, UN, WRI, WWF, EU, GoVs, etc.

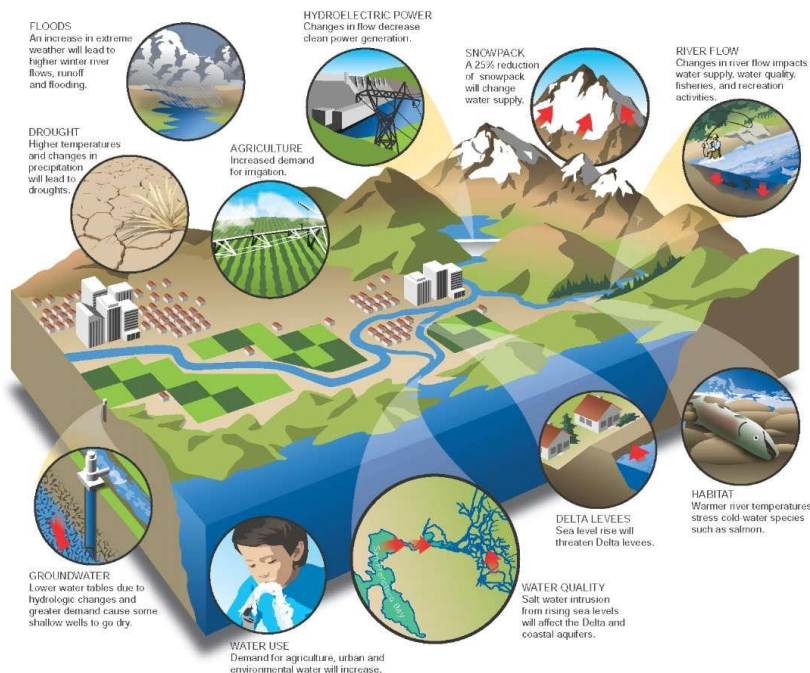
“You can’t manage what you don’t measure.”

How to create more, more accessible, cheaper and better usable data for management and decision making?

Institutions / Water governance

“How governments respond to the water crises, maintain their water infrastructure and regulate users can be just as threatening to water security as a drought or flood.”

Paul Reig, Senior Manager, WRI



- Need for clear, comprehensive and coherent **legal frameworks, policies and regulations**
- Strong and well capacitated **institutions**
- Water: A **transboundary issue**, cutting accross
 - **Sectors** (WSS, agriculture, energy, ecosystems, etc.)
 - **Administrative borders** (within and beyond countries)
- Does the **IWRM approach** work and deliver?

Institutions / Water governance

Related questions:

- How are effective legal frameworks, policy approaches and regulations designed?
- One size fits all or are there adaptation requirements addressing specific needs and circumstances in different regions?
- What are successful approaches for inter-institutional and transboundary cooperation, including the management of hydro-climatic risks?
- Where does it work? Why? Why not? In which “niches”? And what are the lessons learned?

Infrastructure

\$6.7
trillion
needed for water
supply
infrastructure by
2030



**80% OF WASTEWATER IS
RELEASED TO THE
ENVIRONMENT WITHOUT
TREATMENT (95% IN SOME
DEVELOPING COUNTRIES)**

An infographic divided into three sections. The top left shows a house with solar panels partially submerged in floodwaters, with a log floating nearby. The top right shows a dry, cracked landscape with bare trees and a car. The bottom section shows a cityscape with a bridge over a river. Text and logos are included in each section.

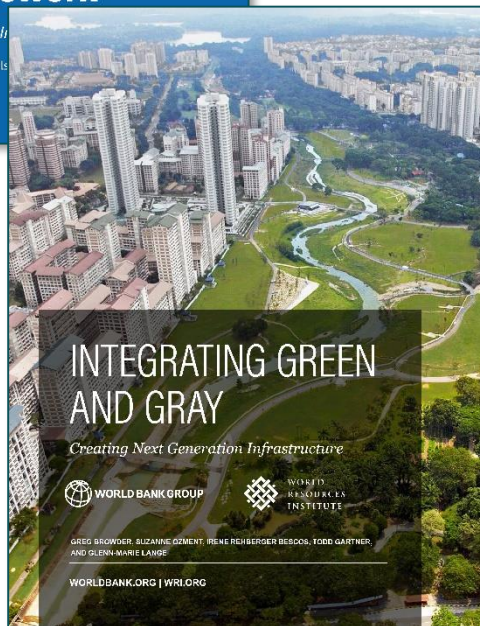
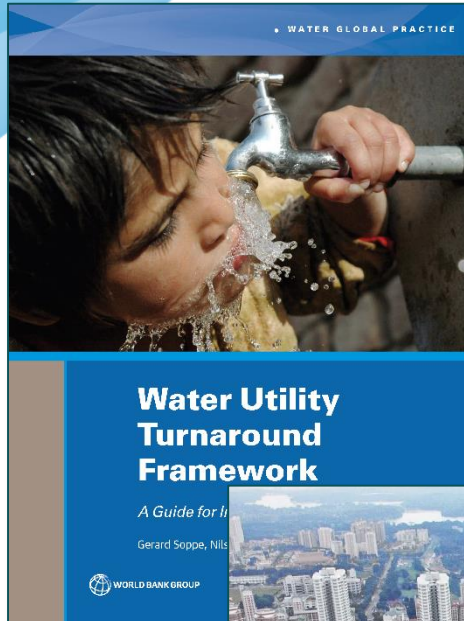
By 2050, nearly 20%
of the world's
population will be
at risk of floods

Up to **5.7**
billion people
will live in
water-scarce areas.

**A new wave of infrastructure projects is
needed for water security and development**

WORLD BANK GROUP WORLD RESOURCES INSTITUTE

(Sustainable) Infrastructure



Examples for initiatives and analytical work:

- **Utilities of the Future:** How to build universal and resilient water supply and sanitation systems
- **Integrating Green and Grey** – Creating Next Generation Infrastructure
- **Water Storage** - Innovative solutions that contribute to increased water security

Key messages

- **Water plays central role** for achieving SDGs and building climate resilience
- Contribution to **green growth** and building back better during and after COVID
- **3 I's**: Information, Institutions, Infrastructure
- **Research and Innovation** to tackle global challenges – European contribution highly appreciated and needed
- Encouragement to approach and **utilize existing global knowledge networks**
- **Dialogue at level-playing field** with partner organizations around the world to tackle global challenges

And finally...

be bold, inspirational and widely relevant to society

be clearly framed: targeted, measurable and time-bound

establish impact-driven but realistic goals

mobilize resources on EU, national and local levels

link activities across different disciplines and different types of research and innovation

make it easier for citizens to understand the value of investments in research and innovation

*EU Mission Statement for Horizon Europe

Thank you!

