

On the critical role of SDG 6 on Water and Sanitation to achieve the 2030 Agenda

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Science for a Transformative Agenda



A water secure world



MISSION

To provide water solutions for sustainable, climate-resilient development



RESEARCH

Science for a transformative agenda



IWMI's Strategy

WATER CHALLENGES



FOOD

Improve Food Security

Conserve Ecosystems & Water Resources



CLIMATE

Adapt to & Mitigate Climate Change

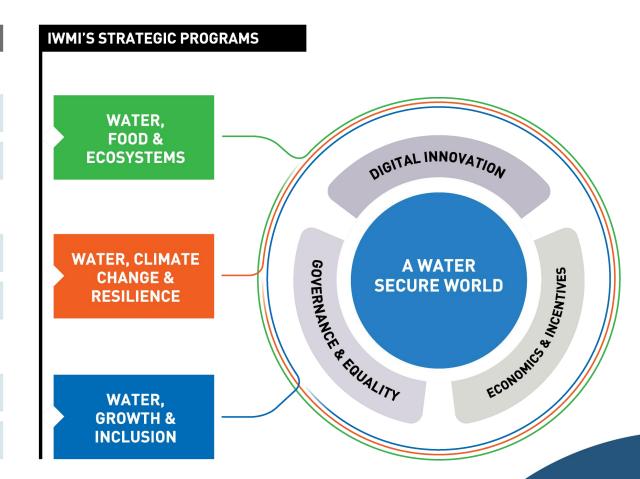
Build Resilience to Societal Disruption



GROWTH

Promote Sustainable Growth

Achieve Gender Equality & Inclusive Societies

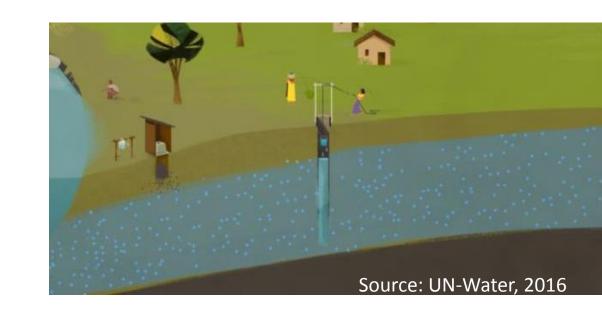






WATER and SANITATION

Focus during the MDGs phase (2000-2015)



SDG 6

"Ensure availability and sustainable management of water and sanitation for all" (2016-2030)





Game changer!

6.4 Water use and scarcity

6.3 Waste-water and water quality 6.5 Water management

6.a and 6.b

Cooperation and participation

6.2
Sanitation
and
hygiene

6.6 Eco-systems

> 6.1 Drinking water

> > Source: UN-Water, 2016

HIGHLIGHTS



The Sustainable Development Goal 6 Synthesis Report 2018 on Water and Sanitation reviews the global progress made towards achieving Sustainable Development Goal 6 (SDG 6) of the 2030 Agenda for Sustainable Development. It builds on the latest data available for the 11 SDG 6 global indicators and will inform the High-level Political Forum for Sustainable Development during its in-depth review of SDG 6 in July 2018. The report represents a joint position from the United Nations family.

The world is not on track

- · Billions of people still lack safe water, sanitation and | · Agriculture places enormous stress on water, but handwashing facilities: 844 million lack basic water ser
 - could be part of a water-saving solution: The agriculture

ATER

Spanish

MARY

pment Goal 6 eport 2018 on and Sanitation

TER **TATION**

> Force and ce include:



Main Message 1

Achieving SDG 6 is essential for progress on all other SDGs, and vice versa

by 153 countries; water stress in many region is increasing. 844 million people still lacked even basic drinking water services that Equitable sharing of water and the benefits it exacerbate poverty. creates is a powerful tool for cooperation. Globally, 70% of all water withdrawals Some 28% of global forest ecosystems, covering are used for agriculture; more than 4,800 million km2, purify and supply 60-80% of 17 PARTNERSHIPS 1 NO POVERTY 80% in Africa and Asia. the freshwater needs of more than half of the world's free.f In low- and middle-income countries, population, including 1.7 billion people living in a third 20% of healthcare facilities lack of the world's largest cities. 15 UFE ON LAND basic sanitation and 33% lack access to safe drinking-water, as well as Around the world, 400 so-called "dead zones" 3 GOOD HEALTH water and soap for handwashing. in coastal waters exist, where excess nutrients -Wlead to areas of low to no oxygen that can kill 14 LIFE BELOW In 2013, although 71% of the world's fish and other marine life. ******* primary schools had adequate access to 4 QUALITY EDUCATION water supplies and 69% had adequate sanitation, in the 49 LDCs the figures Between 1990 and 2015, water-related 13 CLIMATE hazards accounted for 62% of the deaths. were only 52% and 51%, respectively. 96% of the people affected and 75% of **GOALS** Across 61 countries, women and girls 5 GENDER EQUALITY total damage costs amounting are responsible for water collection in **a** to US\$2.5 trillion - numbers likely 8 out of 10 households, preventing to increase in a changing climate. women and girls to engaging in other 00 activities (e.g., attending school). 6 GLEAN WATER AND SANITATION About one-third of produced food is Estimates suggest that if the natural environment lost or wasted, commodities with continues to be degraded and unsustainable a significant water footprint. pressures put on global water resources, by 2050 this will put at risk 45 per cent of the 10 REDUCED INEQUALITIES By 2030, building sustainable cities and communities 8 DECENT WORK AND ECONOMIC GROWTH global gross domestic product (GDP), 52 per cent \subseteq will require US\$7.5 trillion investment in water of the world's population and 40 per cent of global infrastructure to meet existing deficiencies and cope grain production. with future demand.

286 transboundary rivers and lakes, and 592 transboundary aquifers are shared

Un 2015, 159 million people (mainly women and girls) still collected drinking water from distant surface water sources and 892 million people still defecate in the open, with the majority residing in rural communities.

Water is fundamental to industry, and both quality and quantity matter. In 2017, 81% of companies surveyed consider sufficient amounts of good quality freshwater to be 'important' or 'vital' for their operations.

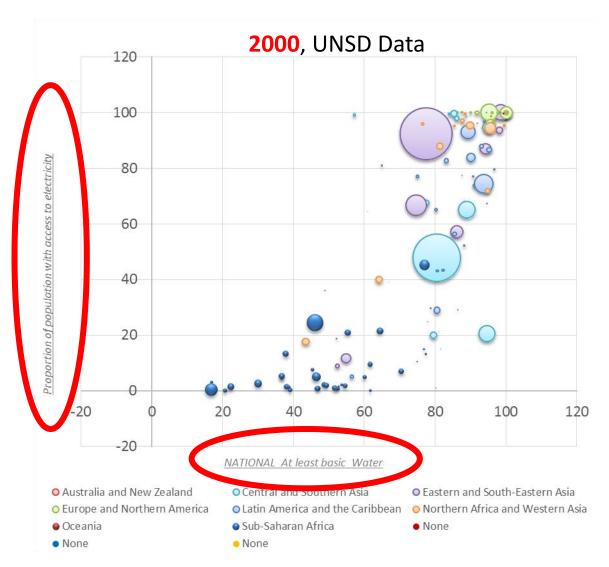
Globally, 1.4 billion livelihoods are directly water-dependent.

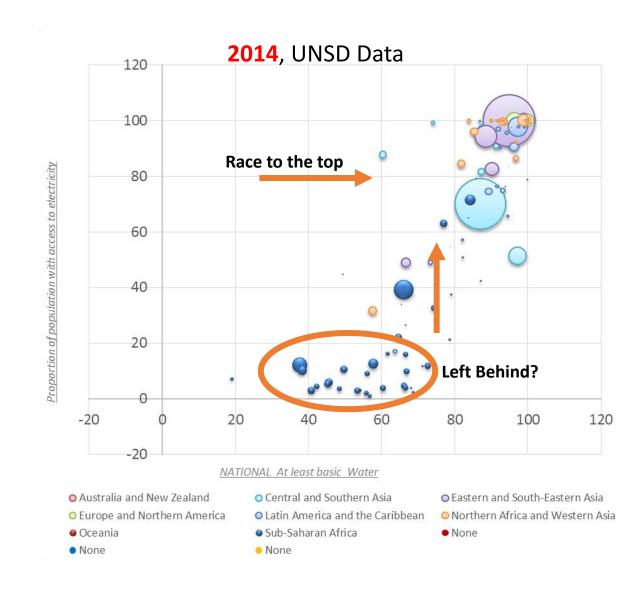
This includes jobs in the food and beverage industry, energy as well as in the water industry. In many developing countries, millions of small-holder farmers rely on water for irrigation and livestock farming for their livelihoods.

grain production.

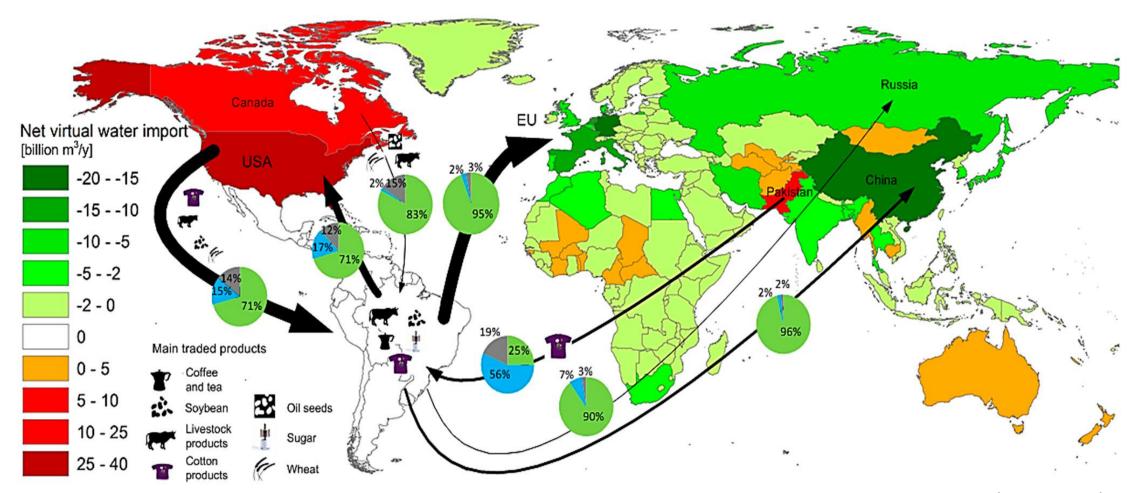
In 2014, about 10% of all water withdrawals were used for energy generation that requires water to cool thermal power plants, grow biofuels, extract primary fossil fuels and provide hydropower.

WATER, ENERGY and SOCIAL EQUITY





'Virtual water' trade in Latin America and Caribbean (LAC)



Source: Mekonnen et al., 2015

Main Message 1

Achieving SDG 6

is es pro othe

and

What does that mean for implementing SDG 6, and the whole 2030 Agenda? Water as an ENABLER

14 LIFE BELOW

13 CLIMATE

in coastal waters exist, where excess nutrients

lead to areas of low to no oxygen that can kill

Between 1990 and 2015, water-related

hazards accounted for 62% of the deaths. 96% of the people affected and 75% of

fish and other marine life.

total damage costs amounting

to US\$2.5 trillion - numbers likely

to increase in a changing climate.

How to value water right?

Revenue feedback for further investments (create a 'virtuous circle')?

286 transboundary rivers and lakes, and 592 transboundary aquifers are shared by 153 countries; water stress in many region is increasing. 844 million people still lacked even basic drinking water services that Equitable sharing of water and the benefits it exacerbate poverty. creates is a powerful tool for cooperation. Globally, 70% of all water withdrawals Some 28% of global forest ecosystems, covering are used for agriculture; more than 4,800 million km2, purify and supply 60-80% of 17 PARTNERSHIPS 1 NO POVERTY 80% in Africa and Asia. the freshwater needs of more than half of the world's in this population, including 1.7 billion people living in a third of the world's largest cities. 15 LIFE ON LAND Around the world, 400 so-called "dead zones"

In low- and middle-income countries, 20% of healthcare facilities lack basic sanitation and 33% lack access to safe drinking-water, as well as 3 GOOD HEALTH water and soap for handwashing. -M/

4 QUALITY EDUCATION

5 GENDER EQUALITY

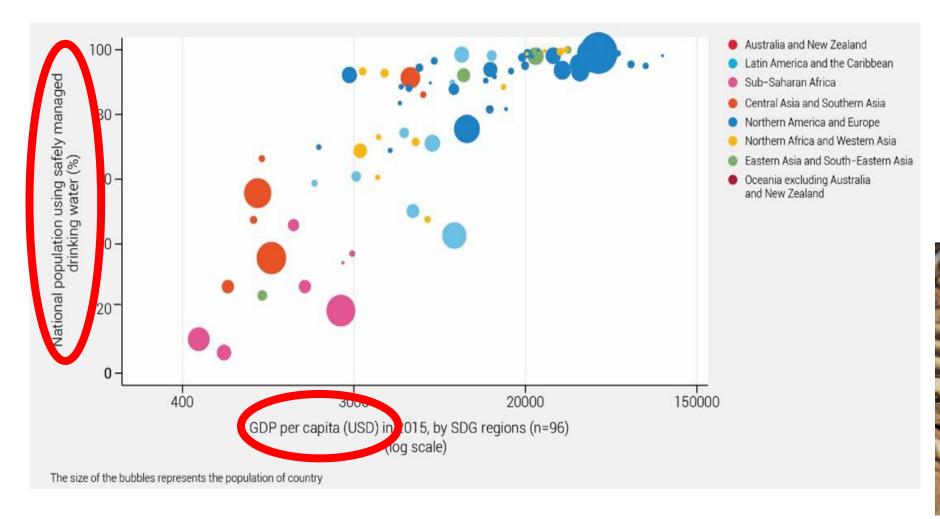
In 2013, although 71% of the world's primary schools had adequate access to water supplies and 69% had adequate sanitation, in the 49 LDCs the figures were only 52% and 51%, respectively.

Across 61 countries, women and girls are responsible for water collection in 8 out of 10 households, preventing women and girls to engaging in other activities (e.g., attending school).

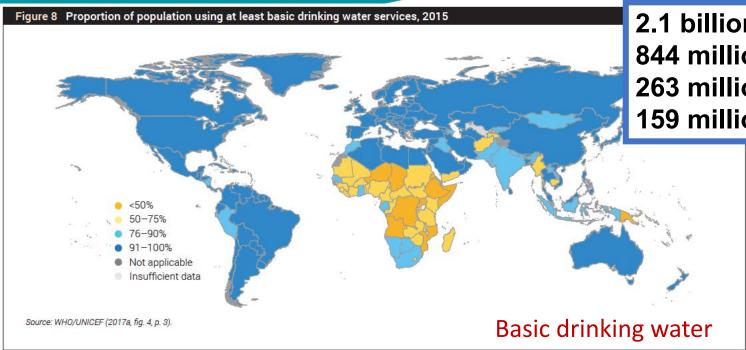
Main Message 2

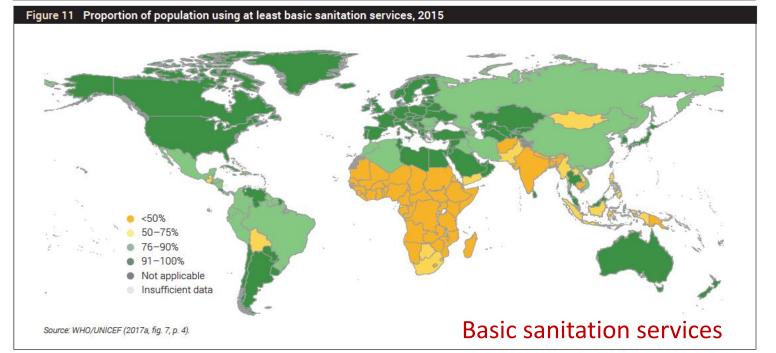
- Eliminating inequalities is essential:

Effective policies, strategies and subsidies must be developed to ensure no one is left behind.









2.1 billion lacked safely managed drinking water 844 million still lacked a basic service 263 million used a limited service 159 million used surface water sources

Billions are being left behind in access to water, sanitation and hygiene (WASH)

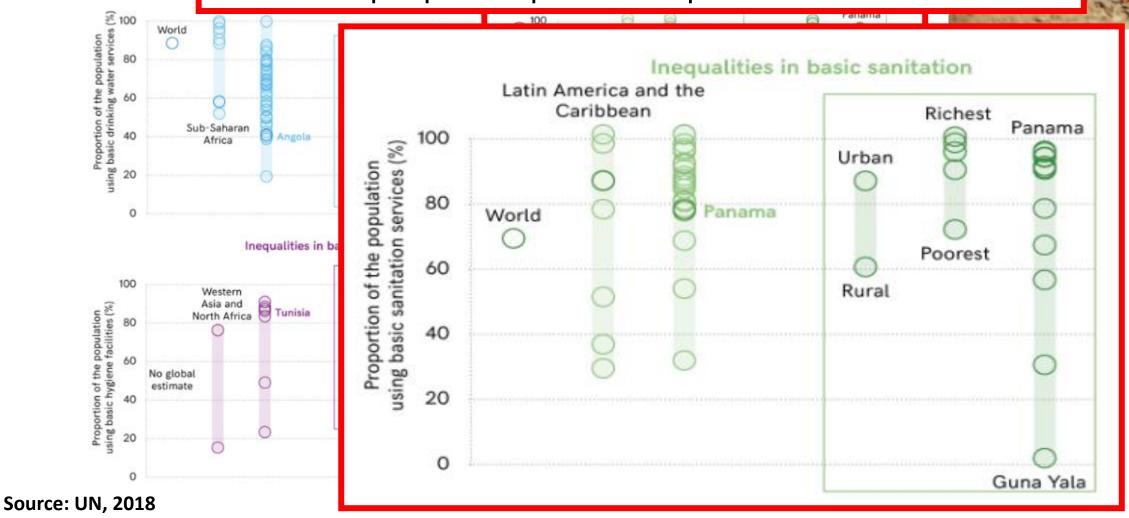


WaSH and INFOLIALITY

4.5 billion people lacked safely managed sanitation services

New disaggrega 2.3 billion people still lacked even a basic sanitation service

892 million people still practised open defecation

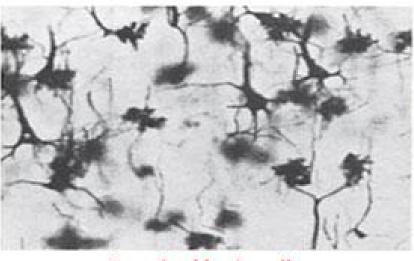




Normal

Stunted





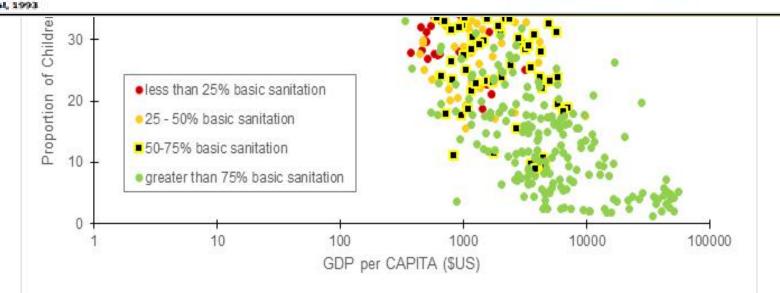


Typical brain cells Extensive branching

Impaired brain cells
Limited branching
Abnormal, shorter branches

16



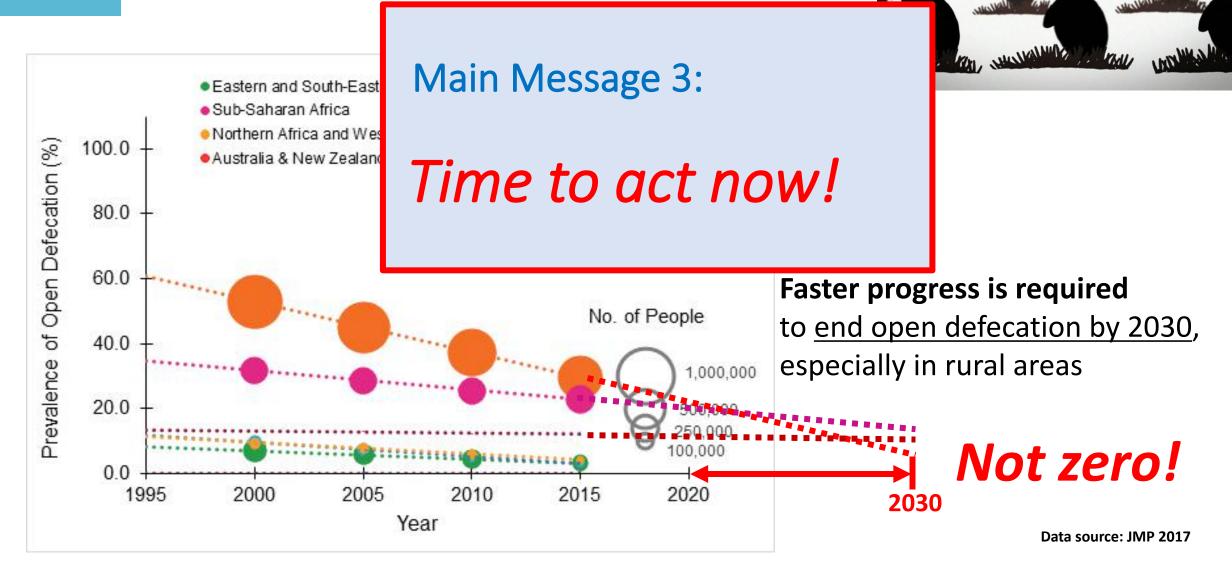




6.2 SANITATION FOR ALL

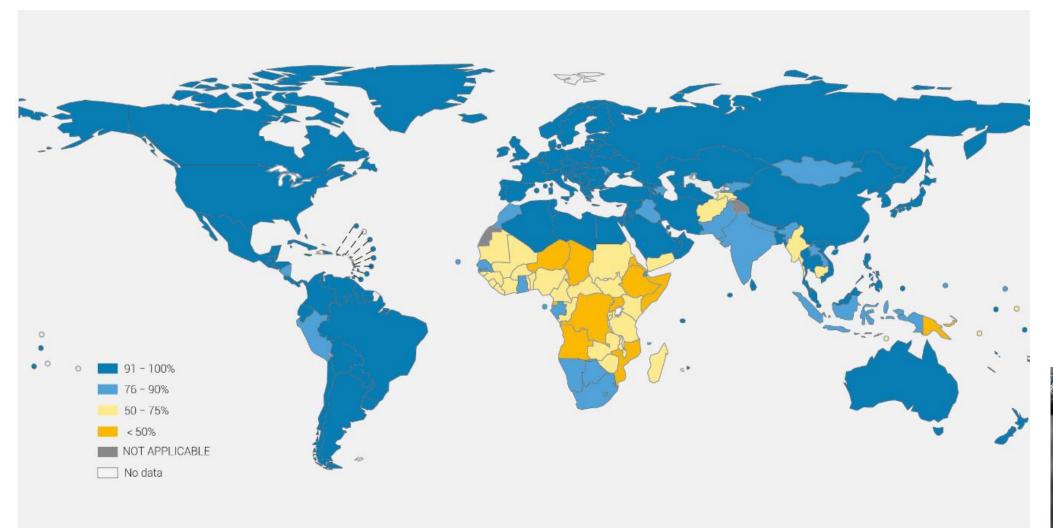


SANITATION and HYGIENE: End open defecation



Main Messages 3:

The time to act on SDG 6 is now

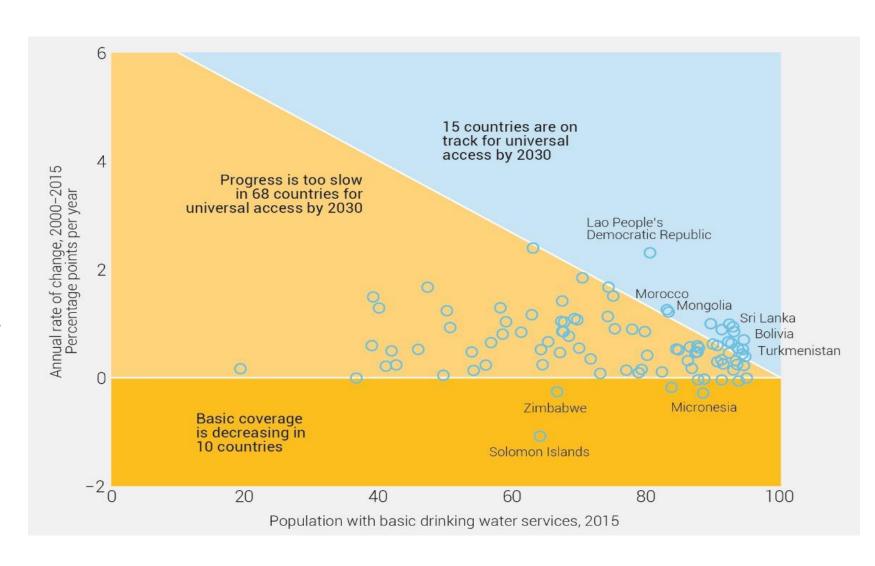


Example:
Basic Water
Supply

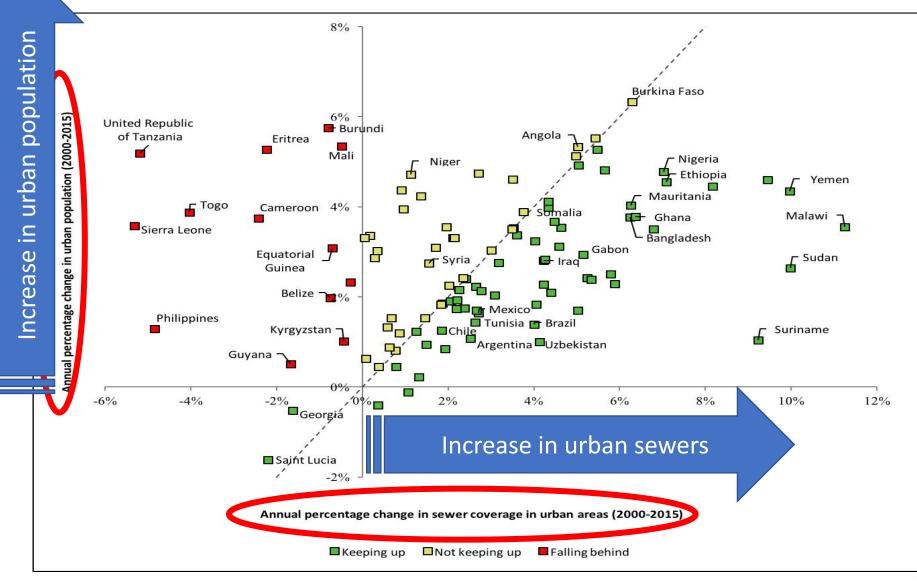


Main Messages 3: The time to act on SDG 6 is now

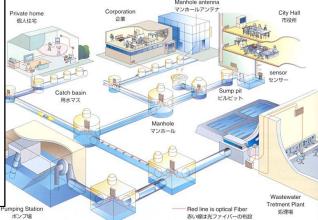
Between 2000 and 2015, the global population using at least a basic drinking water service increased from 81% to 89%. Only one in five countries with less than 95% coverage of basic service in 2015 is on track to achieve universal basic water services by 2030.



WATER and URBANISATION







Main Message 4

Developing capacity and using effective smart technologies for managing water wisely



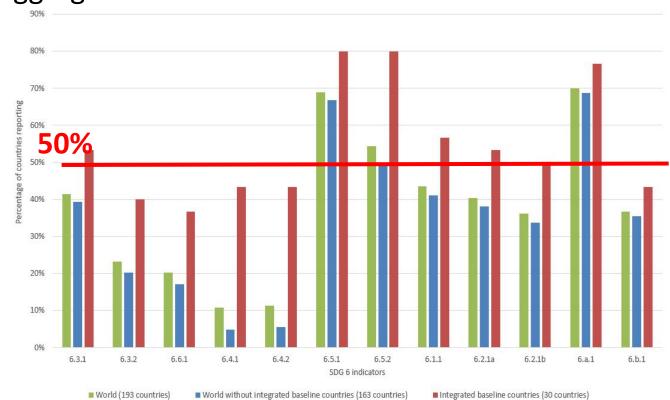




Effective water management needs more and better data

'You cannot manage, what you do not measure'

- Reliable (good quality), consistent and disaggregated
- Increase transparency and accountability
- Available and accessible (sharing)
- Less than 50% of Member States have comparable data
- Future: use latest technology (EO, citizen sciences etc.)
- Increase resource and develop capacity!



Main Messages 5: Global SDG 6 targets must be localized and adapted to the country context



Main Message 6

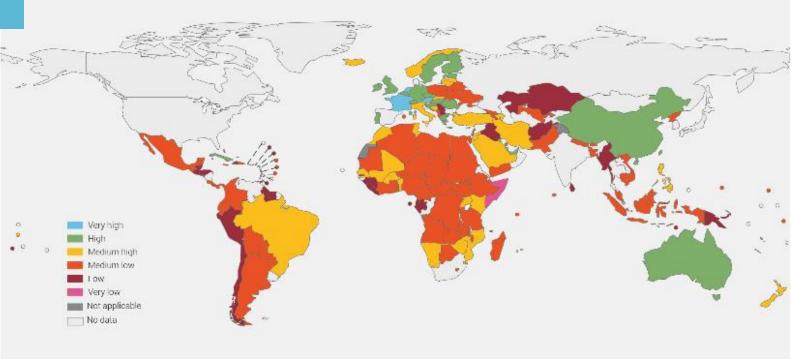
Ensure good governance and public participation

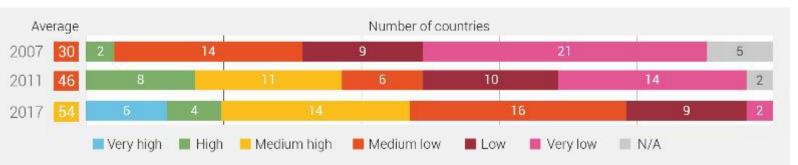




Source: UN, 2018

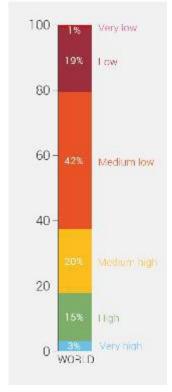
SDG 6.5.1 Degree of implementation of IWRM





Progress in implementation of IWRM, 2007–2017

38% of countries reported at least medium-high IWRM implementation in 2017/18

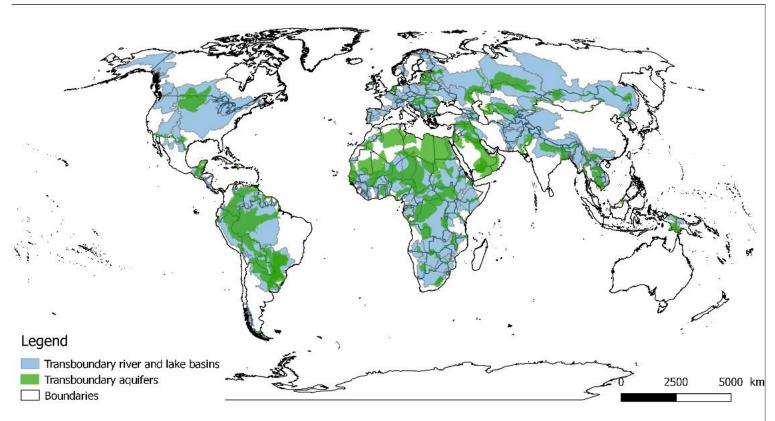


IWRM implementation in 2017/2018

Data source: UNEP-DHI, 2018



SDG 6.5.2 Proportion of transboundary basin area with an operational arrangement for water cooperation



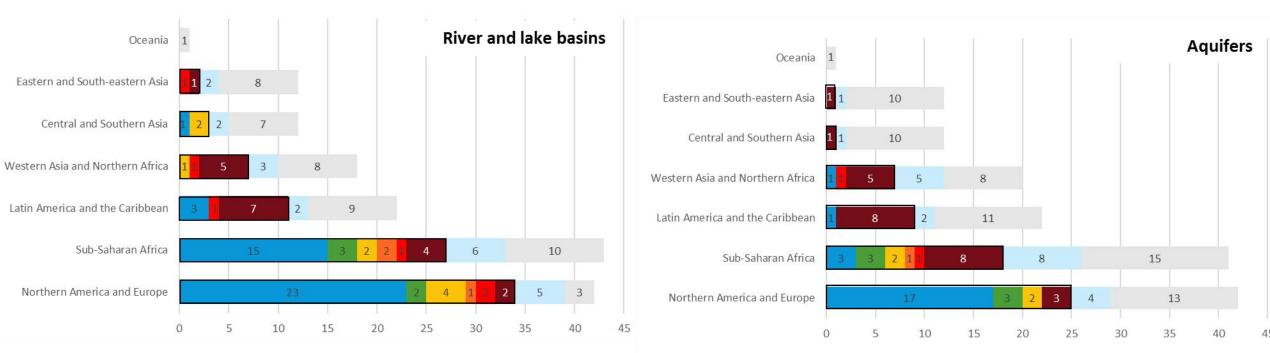
The world's 286 transboundary river and lake basins cover almost half of the Earth's surface area, over 150 countries have territory in a transboundary water basin and almost 600 transboundary groundwater aquifers (TBAs) have been identified.

Data sources: UNECE / UNESCO

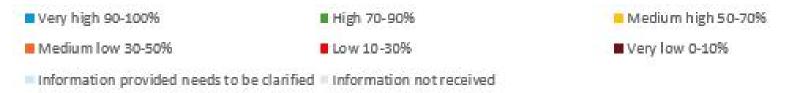


SDG 6.5.2 Proportion of transboundary basin area with an operational arrangement for water cooperation

Regional breakdown of the number of countries sharing basins and level of transboundary water cooperation (based on SDG6.5.2 indicator)

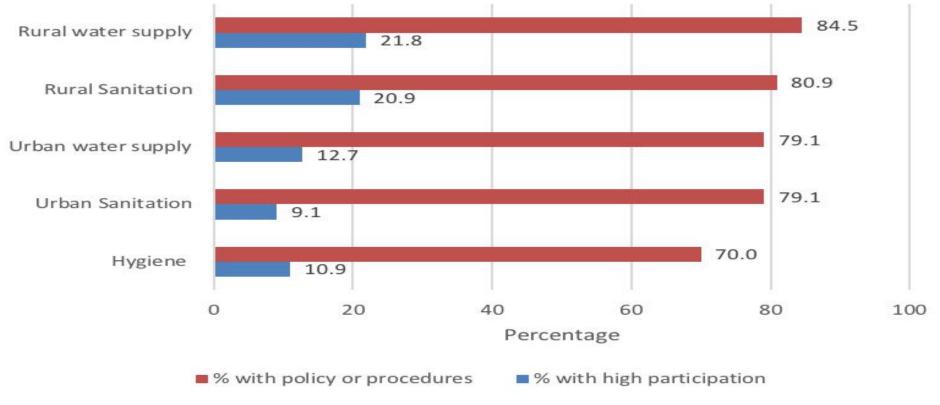


The average of the national percentage of transboundary rivers and lake basins covered by an operational arrangement is 64% and it is 47% for aquifers.





SDG 6.b Percentage of local administrative units with established and operational policies and procedures for participation of local communities in water and sanitation management



Percentages of countries with defined procedures in law or policy for participation (number of countries = 110)

Source: WHO and UN-Water (2017).

Data sour

Data sources: WHO and UN-Water (2017).

Some findings of the survey on the UN-Water Synthesis Report 2018

Figure 6. SDG 6 targets perceived as the biggest challenge by respondents

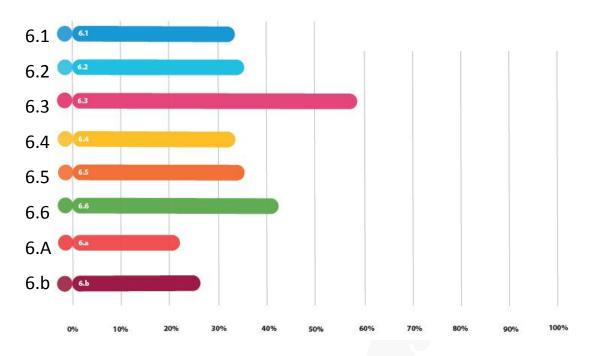
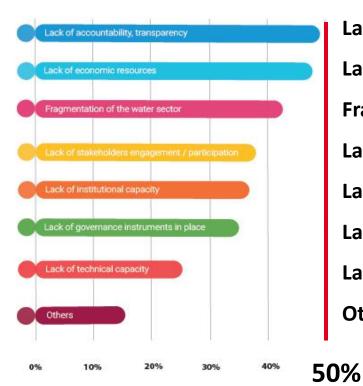


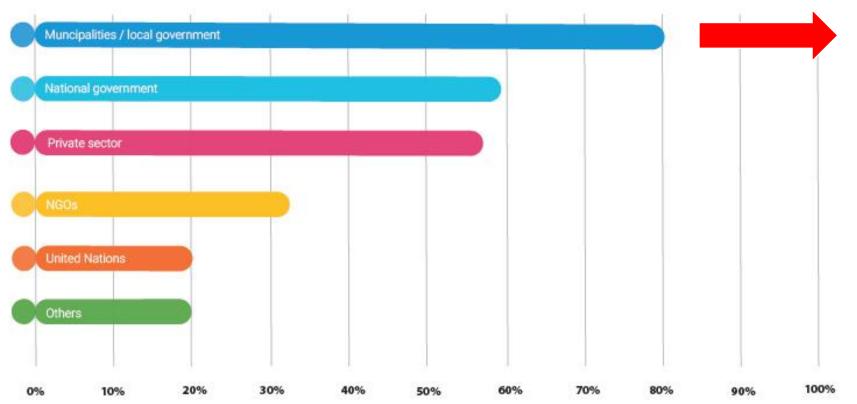
Figure 9. Main obstacles to the achievement of SDG 6 perceived by respondents



Lack of accountability, transparency
Lack of economic resources
Fragmentation of the water sector
Lack of stakeholder engagement
Lack of institutional capacity
Lack of governance instruments
Lack of technical capacity
Others

Some findings of the survey on the UN-Water Synthesis Report 2018

Figure 10. Roles in the implementation of SDG 6



Are local governments supported sufficiently in the implementation of the SDG 6?



Thank you!

IWMI's Contributions to the SDGs



Innovative water solutions for sustainable development Food·Climate·Growth

