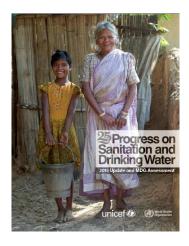
Monitoring the Water SDG An emerging framework



Swiss Water Partnership December 1, 2015 Rick Johnston, WHO johnstonr@who.int











From MDGs to SDGs

MDGs

- Total of 8 goals, 21 targets
- 1 target under "Environmental Sustainability" goal
- Two core indicators: drinkingwater and sanitation
- Primarily relevant to low income countries
- Monitoring by JMP, primarily using household surveys

SDGs

- Total of 17 goals, 169 targets
- 8 targets under "Water and Sanitation" goal
- Twelve core indicators, many sub-indicators
- Relevant to all countries
- Monitoring by national authorities, feeding into regional and global reports







17 SDGs - 169 targets

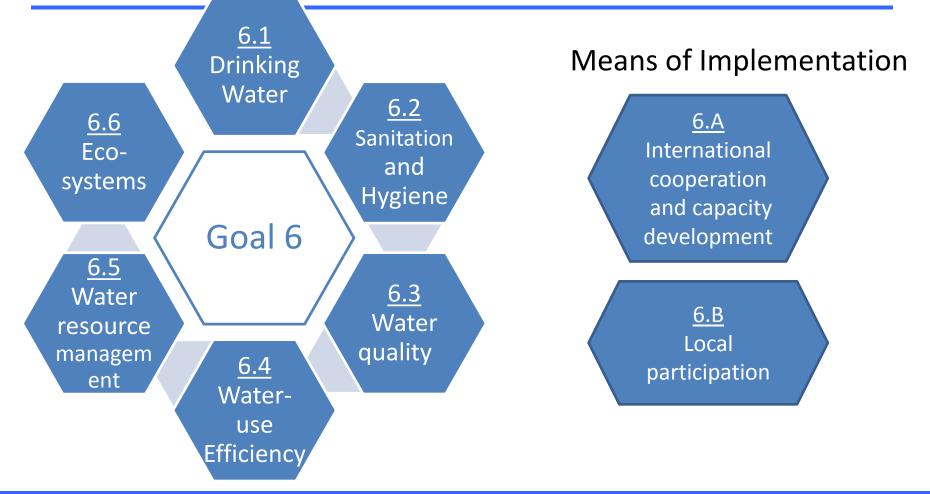




JMP



Goal 6: Ensure availability and sustainable management of water and sanitation for all

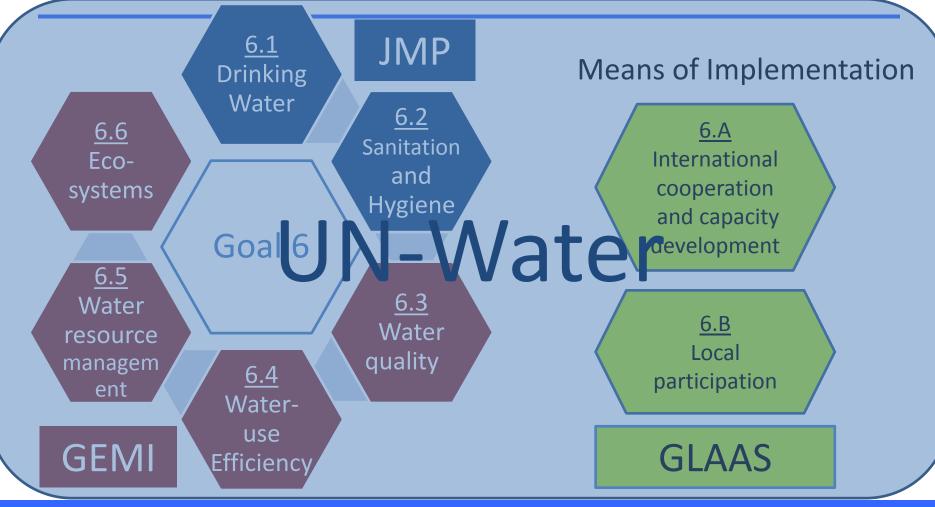




JMP



Goal 6: Monitoring initiatives



GEMI – Integrated monitoring of water and sanitation related SDG targets unice



World Health Organization



Inter Agency Expert Group on SDG Indicators

Membership

- 28 member states (plus observers)
- Statistical experts from international agencies (MDG IAEG+)
- Regional commissions, academia, civil society
- UN Statistical Division as Secretariat

Expected outputs by March 2016

- 1. Integrated statistical framework for monitoring of the SDGs
- 2. Assessment of inter-linkages between target indicators
- 3. Criteria for selection of global indicators
- 4. Final list of global indicators

→ Annual SDG Progress Report



JMP





12 proposed indicators for Goal 6

Indicator	Lead agencies	Indicator (brief title)	
6.1.1	WHO/UNICEF JMP	Safely managed drinking water services	
6.2.1	WHO/UNICEF JMP	Safely managed sanitation services	
6.2.2	WHO/UNICEF JMP	Handwashing in the home	0
6.3.1	WHO, UN-Habitat	Safely treated wastewater	
6.3.2	UNEP	Ambient water quality in water bodies	
6.4.1	FAO	Change in water use-efficiency over time	
6.4.2	FAO	Level of water stress	
6.5.1	UNEP	Degree of integrated water resource management implementation	
6.5.2	UNECE, UNEP	Transboundary basin areas with operational arrangements for cooperation	
6.6.1	UNEP	Change in wetlands extent-fresh-water ecosystems over time	\bigcirc
6.A	OECD, WHO, UNEP	Water and sanitation ODA as part of coordinated spending plans	
6.B	WHO, UNEP	Participation of local communities in water and sanitation management	







WASH and other targets

- 1.4 Access to basic services for the poor
 - Household access to basic drinking water, sanitation and hygiene
- 2.2 O End malnutrition
- 3.3 Combat water-borne diseases
- 3.8 Oniversal health coverage
 - Household WASH proposed as a tracer intervention
- 3.9 Deaths and illness from water pollution
- 4.a 🔵 Education facilities
 - Basic drinking-water, sanitation and hygiene facilities in schools
- 11.1 O Safe and affordable housing and basic services (urban)
- 11.5 Reduce deaths from water related disasters







Target 6.1: Drinking water

By 2030, achieve universal and equitable access to **safe** and affordable drinking water for all

6.1.1: Population using safely managed drinking water services

Definition: Pop. using an improved drinking water source which is:

- Iocated on premises,
 Accessibility
- available when needed, and
- free of faecal and priority chemical contamination
- Lead: WHO/UNICEF Joint Monitoring Programme





HO / UNICEF Joint Monitoring ogramme (JMP) for Water Supply Id Sanitation



Availability

Quality

Monitoring drinking water

Criterion	Household Surveys
Availability	Now: What people report using
	New? Is water always available
	from your main drinking water
	source?
Accessibility	Now: What people report using
	New? Has there been any time in
	the last month when you have not
	been able to access water when
	needed?
Quality	New: Water quality testing in
	household surveys

Affordability?







Target 6.2: Sanitation and hygiene

By 2030, achieve access to adequate and equitable **sanitation** and hygiene for all, and **end open defecation**, paying special attention to the needs of women and girls and those in vulnerable situations

6.2.1: Population using safely managed sanitation services

Definition: Pop. using an improved sanitation facility which is:

- not shared with other households and where
- excreta are safely disposed in situ or
- transported and treated off-site

Lead: WHO/UNICEF Joint Monitoring Programme





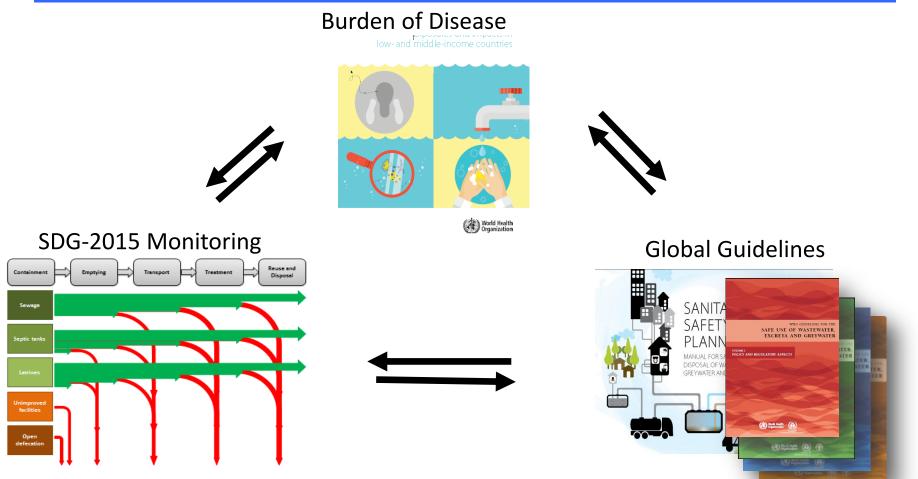
HO / UNICEF Joint Monitoring ogramme (JMP) for Water Supply Id Sanitation



Accessibility

Quality

Sanitation Chain: evidence, action and monitoring

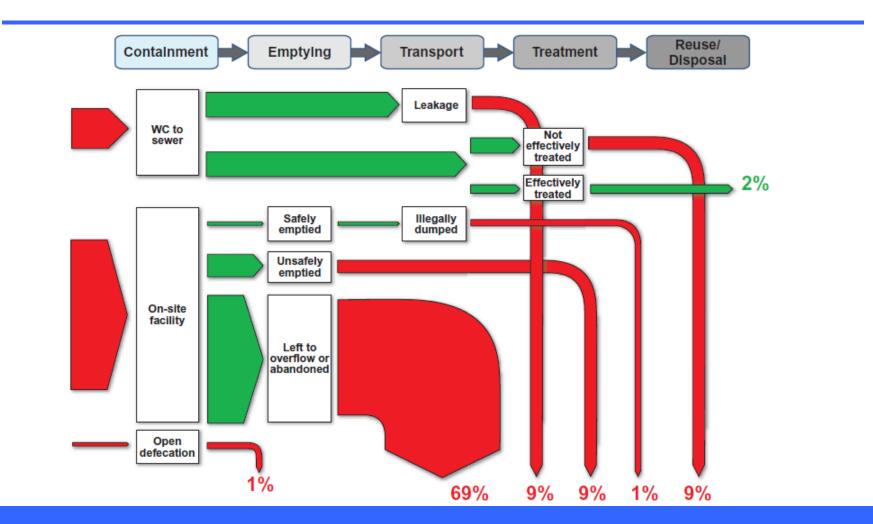




JMP



Sanitation Chain Monitoring: Dhaka





JMP



Target 6.2: Sanitation and hygiene

By 2030, achieve access to adequate and equitable sanitation and **hygiene** for all, and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations

6.2.2: Population with handwashing facilities with soap and water at home

- Standard question in MICS and DHS since 2009
- Observation by survey teams
- Data available from 50+ countries
- Lead: WHO/UNICEF Joint Monitoring Programme





HO / UNICEF Joint Monitoring ogramme (JMP) for Water Supply Id Sanitation



Accessibility Availability

Target 6.3: Water quality

By 2030, improve **water quality** by reducing pollution, eliminating dumping and **minimizing release of hazardous chemicals** and materials, halving the proportion of untreated **wastewater** and substantially increasing **recycling and safe reuse** globally

- 6.3.1: Percentage of wastewater safely treated
- Lead: WHO and UN-Habitat (GEMI)
- 6.3.2 Percentage of water bodies with good ambient water quality
- Lead: UNEP, drawing on GEMS/Water (GEMI)







Monitoring 6.3 (WHO, UN-Habitat)

6.3.1. Wastewater

- Ratio: safely treated / total
- Multi-sectoral
 - Domestic
 (sewage + faecal sludge)
 - Hazardous industrial wastes (point sources)
- Data from:
 - JMP (domestic waste)
 - National inventories of industries (hazardous wastes)

6.3.2. Ambient WQ

- Key water bodies
- Water Quality Index
 - Total dissolved solids
 - Dissolved O₂
 - Dissolved inorganic N
 - Dissolved inorganic P
 - E. coli
- Data from GEMS/Stat (in situ and modeled), OECD, remote sensing







Target 6.4: Water scarcity

By 2030, substantially increase **water-use efficiency** across all sectors and ensure sustainable withdrawals and supply of freshwater to address **water scarcity** and substantially reduce the number of people suffering from water scarcity

6.4.1: Percentage change in water use efficiency over time6.4.2: Level of water stress

Lead agency: FAO (GEMI)







Monitoring 6.4 (FAO-AQUASTAT+)

6.4.1. Efficiency

- Ratio: value added to volume water used
- Change over 3-5 year period
- Multi-sectoral
 - Agricultural (\$)
 - Industrial (\$)
 - Energy (MWh)
 - Municipal supply (NRW)
- Data from AQUASTAT, World Energy Outlook, IB-NET ...

6.4.2. Water stress

- Ratio: total freshwater withdrawn to total renewable resources
 - Reserving environmental water requirements
- Multi-sectoral
 - Agricultural
 - Industrial
 - Municipal supply
- Data from national sources







Target 6.5: Water resources management

By 2030, implement **integrated water resources management** at all levels, including through **transboundary cooperation** as appropriate

6.5.1: Degree of integrated water resources management (IWRM) implementation (0-100)

Lead agency: UNEP (GEMI)

6.5.2: Percentage of transboundary basin area with an operational arrangement for water cooperation Lead agencies: UNECE, UNEP and UNESCO (GEMI)







Monitoring 6.5 (UNEP+)

6.5.1. IWRM implementation

- Composite indicator
 - Policies
 - Institutions
 - Management tools
 - Financing
- Equal weighting, score 0-100
- Data from national surveys completed by ministries

6.5.2. Transboundary

- Proportion of surface area of transboundary basins that have an operational arrangement for cooperation
 - Operational: regular meetings are held
- Data from UNECE water convention, Transboundary Water Assessment Project...







Target 6.6: Water-related ecosystems

By 2020, protect and restore **water-related ecosystems**, including mountains, forests, wetlands, rivers, aquifers and lakes

6.6.1: Percentage of change in water-related ecosystems over time

Lead: UNEP supported by the Convention on Biological Diversity, and the Ramsar Convention on Wetlands (GEMI)







Monitoring 6.6 (UNEP+)

- Percentage of change in water-related ecosystems over time
 - Wetlands, forests and drylands
 - Wetlands: marshes, fens, swamps, ponds, lakes, rivers, aquifers...
- Extent, Quantity, Quality, Status
- Data from ground data + Earth Observations
- Reporting on UNEP-Live platform







Coordinated monitoring for SDG 6

SDG 6 Reporting Team

Tasks: Coordinating country-level interventions and SDG 6 analysis

GEMI Coordination Team

Tasks: Coordination, communication, and outreach

Lead: UN-Water Technical Advisory Unit

Ŭ	t Team	Target Team	Target Team	Target Team	Target Team	Target Team
	, 6.2	6.3	6.4	6.5	6.6	6.A, 6.B
Lead	I: JMP	Lead: WHO, UN-Habitat	Lead: FAO	Lead: UNEP	Lead: UNEP	Lead: GLAAS, OECD

Provides technical and methodological support



Report and provide feedback

National Focal Points and Inter-sectoral Monitoring Teams







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