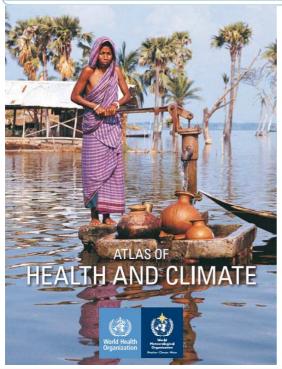
SDGs: A transformative development agenda...wastewater management



Inaugural Symposium of Asia Wastewater Management Partnership(AWaP)

Kyushu, Japan 25 July 2018

Rifat Hossain (<u>hossainr@who.int</u>) World Health Organization Geneva, Switzerland

2018 SDG report by Secretary General

- Preliminary estimates:
 - 79 mostly high and high middle-income countries (excluding much of Africa and Asia) 59% of all wastewater flows are safely treated

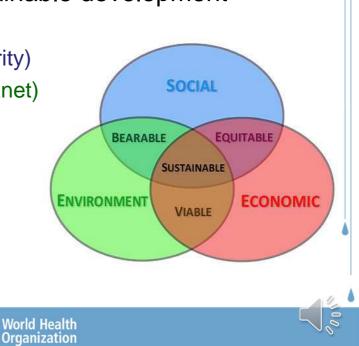
World Health Organization

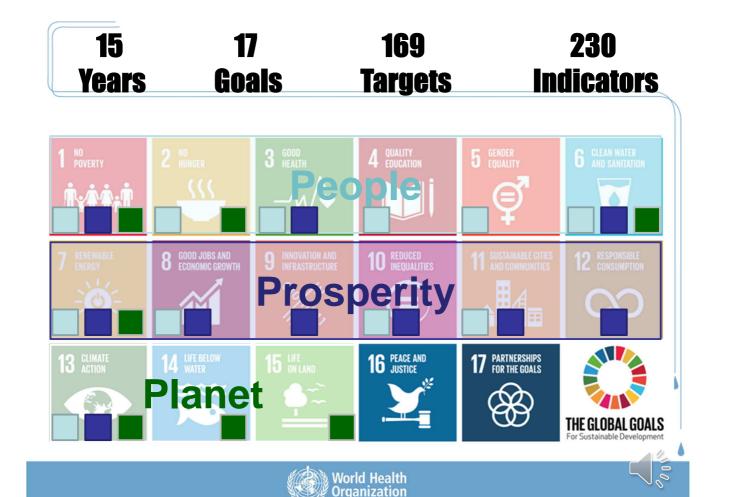
- 76% of flows are safely treated in households with a sewer connection and
- 18% of flows are safely collected and treated for those with on-site facilities only.
- Untreated wastewater degrades water quality, posing risks to public health, contaminates drinking water sources and limits opportunities for safe and productive reuse of water.

World Health Organization FOR A BETTER URBAN FUT

Human to Sustainable development

- Three Pillars of sustainable development
 - Social (People)
 - Economic (Prosperity)
 - Environmental (Planet)
- Other Ps
 - Peace
 - Partnerships





SDG6. Ensure availability and sustainable management of water and sanitation for all

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

6.2 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

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



Monitoring drives progress... important to retain global ambition

MDG target on drinking water: sustainable access to safe water...

lack of data on water safety triggered the norm as improved drinking water sources



11 indicators for Goal 6

In discton		Olahallaad
Indicator	(brief title)	Global lead
6.1.1	Safely managed drinking water services	WHO/UNICEF JMP
6.2.1	 a) Safely managed sanitation services, b) handwashing facility with soap and water 	WHO/UNICEF JMP
6.3.1	Safely treated wastewater	WHO, UN- Habitat
6.3.2	Ambient water quality in water bodies	UNEP
6.4.1*	Change in water use-efficiency over time	FAO
6.4.2*	Level of water stress	FAO
6.5.1*	Degree of integrated water resource management implementation	UNEP
6.5.2	Proportion of transboundary basin area with an operational arrangement for water cooperation	UNEP
6.6.1	Change in water-related ecosystems over time	UNEP
6.a	Water and sanitation ODA as part of coordinated spending plans	OECD, WHO, UNEP
6.b	Participation of local communities in water/sanitation management	WHO, UNEP

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 including a handwashing facility with soap and water

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

- not shared with other households and where
- Accessibility

Quality

- excreta are safely disposed in situ or
- transported and treated off-site





MDG/SDG	Service ladder	Progressive realization		Monitoring ladder
SDG 6.2	Safely managed sanitation	Going beyond hygienic separation of excreta from human contact , including transport and treatment	Developed	All developed countries, some developing countries
	Basic sanitation	Private basic sanitation	De	Most developing and some developed countries report
-type	Shared sanitation	Improved sanitation	ping	Most developing and some developed countries report
MDG-type	Unimproved sanitation	Fixed point defecation	Developing	All countries report (applies to developing countries)
	No service	Open defecation		All countries report (applies to some countries)
		World Health Organization		

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 at least doubling **recycling and safe reuse** globally

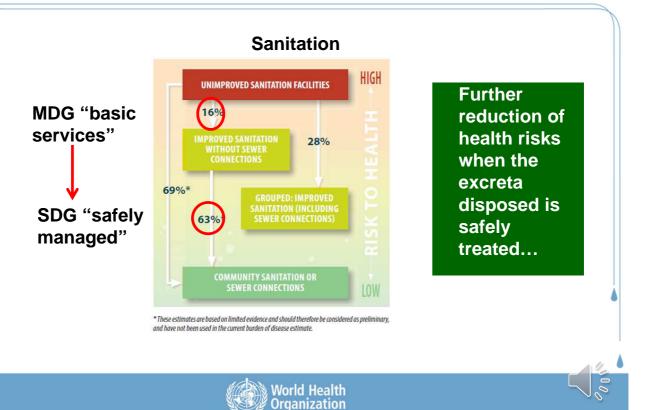
6.3.1: Percentage of wastewater safely treated

Lead: WHO and UN-Habitat (GEMI)

6.3.2 Percentage of water bodies with good ambient water qualityLead: UNEP, drawing on GEMS/Water (GEMI)



Why safely managed/treated...



Brief history of wastewater global monitoring

- 2014 2016
 - Methods developments, pilot country works, SDG indicator developed
- 2017
 - Methods review and approval by IAEG: Tier II
 - Reanalysis of 6.2.1 data (for baseline), and desk review
 - Additional baseline data collection/compilation
 - Additional pilots for country and region specificity
- 2018
 - Meeting of Global Experts Group, UNSC: March

UN (HABITAT FOR A BETTER URBAN FUTUR

- Country consultation on preliminary estimates
- SG's report, and UN Water Synthesis report
- Status report late 2018

Experts Group Meeting: met all expected outcomes

- Agree on ways forward on key methodological issues especially on safe treatment of non-municipal wastewater from industrial and commercial establishment and the interface between SDG6.2 and SDG6.3
- Agree on the optimum process to support: data gathering, data validation, and country consultation
- Understand the key policy drivers behind wastewater monitoring, water scarcity and reuse
- Agree on the content of the first global status report due in 2018
- Agree on capacity-building issues for longer-term monitoring
- Traditional survey approaches to country- led computation

World Health BOR A BETTER URBAN FUTURE

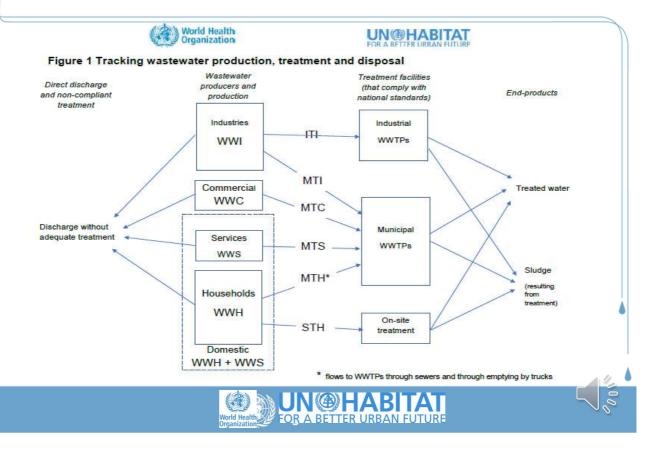
Summary from WW EGM and follow-up

- EGM: A reference group...revise methodology and get approved
- A practical proposal using SEEA framework two sub indicators (Only flows are considered...pits not in numerator, also consider water use):
 - Percentage of safely treated domestic wastewater flows
 - Percentage of safely treated industrial wastewater flows

A BETTER URBAN FUT

- Need IAEG-SDGs approval on the sub indicators
- Summary of the meeting at UN Statistical Commission
- Review and approval of methods by Statistical Community
 - Technical committee UNCEEA review
 - Submit to UNCEEA meeting in June
- Global wastewater status report and SG's report
 - Content proposed and developed by WHO and UNHABITAT, agreed by EGM

Methodological flow diagram



Vietnam pilot: a WHO-JICA study

	Water		Sanitation		Hygiene		Wastewater	
	Baseline (2015)	Target (2030)	Baseline (2015)	Target (2030)	Baseline (2015)	Target (2030)	Baseline (2015)	Target (2030)
MDG continuity	91%	100%	78%	?	NA	NA	NA	NA
MDG+	88%	100% or A%	-	-	NA	NA	NA	NA
SDG	63%	В%	-	?	86%	100% (?)	87% (treated 13%)	44% (treated 56%)



Philippines scenario: a big challenge...

	Water		Sanitatio	n	Hygiene		Wastewater	
	Baseline (2015)	Target (2030)	Baseline (2015)	Target (2030)	Baseline (2015)	Target (2030)	Baseline (2015)	Target (2030)
MDG continuity	91%	100%	75%	?	NA	NA	NA	NA
MDG+	61%	100% or A%	69% (septic and sewer)	?	NA	NA	NA	NA
SDG	X%	Υ%	-	?	XX%	YY% (?)	96% (treated 4%)	48% (treated 52%)
World Health Organization								000

Way forward...action points/recommendations

- SDG wastewater baselines assessed?
 - Set national targets and monitoring mechanism
- Tools at disposal:
 - Sanitation Safely Planning implementation (wastewater management)?
- Continue from baseline assessments (scarce sata):
 - SDG monitoring mainstream in surveys/national planning
 - Wastewater data accumulation
 - Risk assessment as part of sector planning/programming
 - Continuous monitoring for greater accountability for continuous improvements
- Climate resilient wastewater: Vietnam, Philippines etc.

