Steps towards safely managed sanitation webinar series: Guided clinics for practical progress

Webinar #3. Strengthening data systems for safely managed sanitation

Tuesday 15 April 2025 10.00-11.00 AM CEST









Housekeeping

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Please use the chat for questions and comments – which will be address at the end of the webinar, or later by email.



Webinar will be recorded recording and slides will be shared with attendees.



Please keep your **questions relevant** to the topic of the webinar.

You can switch to the French interpretation channel by clicking the interpretation icon at the bottom of your Zoom window and selecting "French."

Introduction to the series

Sophie Boisson World Health Organization



A common framework for implementation

- Only 5 years before reaching the end of SDG period
- SDG 6 GAF and UN System-wide strategy on water and sanitation as a basis - sector alignment and coordination needed
- Major gaps in understanding what SMS and climate resilient sanitation (CRS) means
- WHO/UNICEF aligned in the sanitation approaches via the Game plan and the Guidelines - motived to work with implementing partners their respective strategies



GUIDELINES ON SANITATION AND HEALTH



8 practical steps

- Builds on SMS workshop experience request to simplify implementation
- Steps flexible/not linear, includes checklist and key actions that can be taken to progressively move towards SMS
- Assist country teams to work together at national and subnational levels, and ensure activities are complementary between the two organizations and with other sector stakeholders.



Webinar series and related resources

Sanitation Summit, Nepal, June 2024

Watch <u>Summary</u> and <u>Thematic videos</u>





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Webinar series: 6 thematic areas

Webinar #1	Strengthening governance, policies and regulations	25 February
Webinar #2	Financing safely managed sanitation	25 March
Webinar #3	Strengthening data systems for decision making	15 April
Webinar #4	Scaling up service delivery in rural settings	13 May
Webinar #4 Webinar #5	Scaling up service delivery in rural settings Scaling up service delivery in urban settings	13 May 27 May (date tbc)





Strengthening data systems for safely managed sanitation

Freya Mills WHO/UNICEF JMP



Overview

- Importance of data to advance safely managed sanitation address inequalities
- Harmonized definitions and indicators for consistent and comparable monitoring
- Standardized tools and methodologies enable routine data across the service chain
- Developing sustainable data systems to collect, share and use data
- Localize indicators and targets for different scales and users
- Future monitoring: Strength of WASH systems and climate resilience



Importance of strong monitoring systems

SDG Acceleration Framework



High quality data enable:

- Response to health risks with targeted interventions
- Identify inequalities to ensure no one is left behind
- Effective governance, policymaking and accountability
- Inform decisions and facilitate resource allocation
- Track progress towards global goals and national targets

Data needs vary for different users and uses



Harmonized definitions for standardized data

Global service ladder for SDG 6.2.1a

	SERVICE LEVEL	DEFINITION
ED	SAFELY MANAGED	Use of improved facilities that are not shared with other households and where excreta are safely disposed of in situ or removed and treated off-site
MPROV	BASIC	Use of improved facilities that are not shared with other households
	LIMITED	Use of improved facilities that are shared with other households
	UNIMPROVED	Use of pit latrines without a slab or platform, hanging latrines or bucket latrines
	OPEN DEFECATION	Disposal of human faeces in fields, forests, bushes, open bodies of water, beaches or other open places, or with solid waste



What is 'safely managed sanitation'?



Safely managed services

At least basic sanitation (improved, not shared) AND

- i. On-site sanitation treated and disposed in-situ (safe disposal in-situ), or
- ii. On-site sanitation emptied and treated off-site (faecal sludge emptying and treatment), or
- iii. Sewer to wastewater treatment

Data required across service chain



Large data gaps for on-site sanitation





Global data availability for safely managed sanitation

% of population (#	SANITATION			
countries, areas and territories) in 2022	Safely managed	Safely disposed of in situ	Emptied and treated	Wastewater treated
World (235)	86% (135)	85% (137)	1% (5)	59% (111)
Rural	80% (90)	84% (90)	0% (1)	9% (4)
Urban	81% (117)	83% (119)	24% (2)	44% (24)

Range of data sources needed



Service chain Data collection method	Facility type	Containment	Emptying	Transport	Treatment
Household questionnaire				In-situ only	
Household sanitary inspection					
Administrative and regulatory data					
Service provider and local government surveys					
Service chain spot checks / inspections					

RESOURCES: https://washdata.org/monitoring/sanitation

JMP report cycle (every 2 years)



Align to accelerate (A2A): Core indicators to monitor strength of WASH systems

Multi-stakeholder initiative

- What factors lead some countries to make rapid progress towards increasing access to WASH services and others not?
- Convergence on WASH systems strengthening but varied descriptions and the monitoring piece is missing
- A common monitoring and review framework with a core set of indicators is needed
- Enable decision-makers to accurately monitor progress, evaluate impact, and ensure accountability at country, regional and global level
- For more information, see <u>A2A webpage</u>







Since 2015, 49 countries have increased coverage of at least basic sanitation by at least five % pts



52) Change in the proportion of population using at least basic sanitation services, among countries with at least a five % pt change,

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A2A Discussion Paper – *for review/comments by 30 April*

The <u>A2A Discussion Paper</u> proposes a technical approach for the selection of a slim set of core indicators:

- **Proposal 1. Indicator domain families.** Eight groupings of WASH system-related topics and two priority cross-cutting areas for which core indicators will be defined.
- **Proposal 2. Core indicator selection criteria.** Ten criteria are proposed to evaluate and rank potential candidate core indicators.
- **Proposal 3. Process to select and prioritize A2A core indicators.** A multi-step process is proposed to engage and consult a diverse set of stakeholders and subject matter experts.

The <u>A2A Background Paper</u> provides additional information, examples and analysis.

For more information, join the webinar coorganized with Agenda for Change on 17 April at 13h CEST (interpretation in FR/ES)

Zoom registration link:



Review process: monitoring climate resilience and WASH

- GLAAS and JMP are conducting a review of monitoring climate resilience and WASH:
 - Identifying frameworks, indicators, data collection opportunities, and data describing links between climate resilience and WASH.
 - A consortium of academic institutions (Leeds, Bristol, Oxford, UTS) were selected in March 2024 to support the work.
 - A Technical Working Group provides inputs and reviews outputs.
 - Outputs will identify areas where GLAAS and JMP could focus future monitoring efforts.
- Engaging with multiple stakeholders
 - Public webinars: July 2024, February 2025, April 2025
 - Outreach about the initiative has been started and will continue during global events, conferences, trainings and webinars
- Results to feed into work on Global Goal on Adaptation
 - Identification of indicators for GGA Water target 9a



For more information, join the webinar 23 April at 9am and 4pm CET (interpretation in FR/ES)







UN Water Global Analysis and Assessment of Sanitobra and Dreking-Water

For more information

https://washdata.org/monitoring/sanitation

- Guidance, indicators, draft tools, key lessons and examples from Phase 1 pilots
- Upcoming: Monitoring SMOSS online and offline training, data collection and analysis tools
- Country files and tools to explore the global data

Freya Mills WHO consultant <u>millsf@who.int</u> Rick Johnston WHO Co-lead JMP johnstonr@who.int



Country examples

Setting up national monitoring system for safely managed sanitation in Nepal

Dr Rajit Ojha, Department of Water Supply and Sewage Management, Nepal

Strengthening sanitation data systems in Indonesia

Indah Deviyanti, WHO Indonesia

Non-sewered sanitation data systems in Sub-Saharan Africa: status, challenges, and recommendations

Shuko Musemangezhi, Dev-Afrique, Zambia



NWASH-MIS our Journey

Rajit Ojha,PhD DWSSM,Nepal

Year:2015



Year:2015

753 Local governments

Water Supply and Sanitation – Fundamental Right as per the constitution

Most of the functions were devolved to LGs







Local governments and service providers need to be motivated enough to create the database

MIS TIMELINE AND COLLABORATORS INVOLVED











Wash Plan Dashboard



Status

Example: Karjanha Municipality, Siraha, Sanitation Status



Example: Gaur Municipality (retrieved from NWASH 1/14/2023)



Investment Required







Financing Options

THE MAJOR FUNDING REQUIREMENTS ARE NEITHER SEEN NOR ADDRESSED



Source: SWA ,financial handbook

Analysis through the system



Trade, Repayable finances, Shares, equities, bonds, CSRs



Source: SWA 2020. Water & sanitation, how to make public investment work. A handbook for finance ministers. Available in EN, FR, SP, PT: https://www.sanitationandwaterforall.org/handbook-finance-ministers-how-make-public-investment-work





How can we maximize the value of existing funding

Dedicated funds on Local Priorities from Federal and Provincial Governments



Advocacy

Backstopping

Coordination & Collaboration


Policy & legislation: sector policy & strategy, legal framework, norms & standards, by-laws



Planning: planning & budgeting, capacity & frameworks for planning



Institutions: coordination, roles, responsibilities, capacity, sector mechanisms



Finance: flows & responsibilities, clear frameworks including life-cycle costs & source identification



Infrastructure: development & maintenance, project cycles, asset management, roles



Regulation & accountability: accountability mechanisms, regulatory framework & capacity

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Monitoring: framework & routine implementation, service levels, use of data



Water resources management: allocation & management of resource abstraction, water quality, coordinated efforts

Source: IRC







Integrated





Institutional Provision	Yes	No	No Data
WASH Unit Formation	154	66	533
WASH Focal Person	209	14	530
NWASH MIS Focal Person	154	65	534
Adequate HR Capacity	0	0	753
Capacity Strengthening Master Plan	55	164	534

Institutional data





Water quality



There must be a problem since we are not delivering expected service level as designed

More than 42000 schemes More than 20000 service providers Average size of big utilities approximate 3000 connections



IDENTIFY WHERE YOU ARE.. PLAN WHERE YOU WANT TO BE



3 components associated in our regulation which in practice would be great if it was single entities responsibility but has been shared among 3 entities



Ministry of Water Supply for Service level Inspection



Department of Water Supply and Sewerage Management for licensing



Water Tariff Fixation Commision for setting up the tariff of water and wastewater services

All these 3 entities can provide guidance only below some thresholds because of 3 layers of

governments , there are some responsibilities of these 3 functions have been devolved to province and LGs



Ministry of Water Supply for Service level Inspection



Department of Water Supply and Sewerage Management for licensing



Water Tariff Fixation Commision for setting up the tariff of water and wastewater services



Enforcement and Capacity building should go hand in hand and capacity building should be for both regulator and service provider



Create the dashboard for private sector with enabling environments analysis

Model the: HR, tools, materials required

F

Status

Goal

Investment Required

Financing Options

How to improve data collection? The simpler it is the better data we have



Left - Corrosion identified by our model. Right - Broken tap identified by our model/



Thank you

Strengthening Safely Managed Sanitation Data Monitoring in Indonesia

Indah Deviyanti NPO Environmental Health and Climate Change



Indonesia

Safely Managed Sanitation Progress -Indonesia

> World Health Organization

Indonesia



Improved Access consists of SMS, Improved access not shared, and improved access shared

Overview of Sanitation Data Monitoring Systems in Indonesia – e Monev STBM

C no S link.kemkes.go.id/multi/Links/lists/EMonevSPilarSTEMProvinsi	Se 🕁 🥥
Kemenkes	
E Monev 5 Pilar STBM Per Provinsi	
Capaian Nasional	
Provinsi Aceh	
Provinsi Sumatera Utara	
Provinsi Sumatera Barat	
Provinsi Riau	E.
Provinsi Jambi	

- 5 Pillars STBM (Sanitasi Total Berbasis Masyarakat- Adopted from CLTS) , containing :
 - 1. Stop Open Defecation.

Monitor Sanitation service ladder Done quarterly by sanitation at PHC level

- 2. Hand Hygiene
- 3. Safe Water and Food
- 4. Solid waste
- 5. Liquid waste



Overview of Sanitation Data Monitoring Systems in Indonesia Environmental Health Risk Assessment (EHRA)

Sanitation Component include :

- 1. Type of sanitation
- 2. Risk of infiltration
- 3. Toilet structure
- 4. Cleanliness
- 5. Emptying practice
- 6. Cost and affordability of desludging
- 7. Risk of flooding → relevant with climate





Pilot testing of sanitation inspections for national monitoring in Indonesia



- E-Monev and EHRA offer detailed data collection; however, their usefulness is more to the district planning, as they are conducted only annually and every five years, respectively.
- MoH, with support from UNICEF Indonesia piloted the WHO SI inspection to better target infrastructure investments and empower community for improving their own facilities
- The inspection involved sanitarian and relevant local stakeholders including local community and youth organizations



Lesson Learned

- The data have been instrumental in identifying highrisk areas and prioritizing interventions, leading to more effective use of resources
- The tools have not addressed in detail the facility improvement plan and only focused on the household level
- Inconsistent implementation across different regions, particularly in remote areas
- Needs for better integration into broader strategic financing

WHO's Efforts

- Training and capacity-building efforts empower local stakeholders to manage sanitation systems more effectively through initiation of SSP
- Adoption of Sanitary Inspection for sanitation surveillance
- Stakeholder discussion for potential GCF access for SSP implementation in Indonesia
- Bring evidence from GLAAS for further national discussion on sanitation planning



Terimakasih

Indah Deviyanti deviyantii@who.int





Dev-Afrique

Non-Sewered Sanitation Data Systems in Sub-Saharan Africa: Status, Challenges, and Recommendations

Bridging Gaps, Unlocking Opportunities, and Driving Impact

Shuko Musemangezhi | 15/04/2025

Dev-Afrique is implementing a Sanitation Data Systems Strengthening project in sub-Saharan Africa with support from the Gates Foundation

Project goal: To improve public data systems for effective decision-making and performance management for sanitation service delivery at municipal and utility levels

Dev-Afrique contributions:

- Improve understanding of data systems strengthening best practices from non-WSH data systems like Health. Dev-Afrique will landscape transferable best practices from health sector data systems to facilitate learning within WSH
- Improve understanding of the current state of non-sewered sanitation data systems at municipals and utilities in sub-Saharan Africa.
- Support developing and piloting the WSH data systems maturity index developed by ESAWAS and Athena.
- Landscape and develop an inventory of successful WSH tools in South Asia and sub-Saharan Africa. The tools resulting tools map will facilitate lesson learning and potential replication in municipals and utilities with existing gaps.
- Provide technical support and facilitate cross-learning and insights sharing on data systems best practices.



AN INITIATIVE BY

Dev-Afrique



Why NSS Data Systems Matter

Robust Data Systems

Inform Policy & Planning: Enable evidence-based decision-making for sanitation investments.

Improve Service Delivery: Enhance monitoring of access, safety, and inclusivity.

Support Climate Resilience: Track the impact of climate change on sanitation systems.



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Drive Accountability: Strengthen regulatory frameworks and performance monitoring



AN INITIATIVE BY

Dev-Afrique



Why NSS Data Systems Matter

46% Global NSS use >80% SSA NSS use

NSS data scarcity across SSA has led to a lack of requisite data needed to improve service delivery, track performance, increase operational efficiency, and build an investment case for resource allocation Dev-Afrique, supported by the Gates Foundation, conducted a landscape assessment of NSS data systems across utilities and municipalities in 10 SSA countries to illuminate existing challenges and enable the identification of best practices that can guide interventions aimed at strengthening NSS data systems.





Assessment Scope and Methodology

Qualitative case study using a participatory approach



Adaptation of assessment framework

Dev-Afrique's 2022 Geospatial Value pipeline framework was adapted to map critical elements of a data system.

Desk based review

A review of online articles, conference proceedings, previous reports, and key stakeholder reports and websites.

Stakeholder interviews & analysis

Dev-Afrique interviewed 28 stakeholders including governments, regulators, utilities, and municipalities from 10 countries.

Multi-layer review

The draft report underwent multiple layers of peer review to validate the findings.

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Assessment Scope and Methodology







Assessment Scope and Methodology

Rwanda

Rwanda Utilities Regulatory Agency (RURA) Water & Sanitation Corporation (WASAC) — Association of Emptiers in Rwanda

Nigeria

Office of Drainage Services Lagos State Ministry of the Environment & Water Resources (MoE Lagos) ----Lagos State Water Regulatory Commission (LASWARCO) Lagos State Wastewater Management Office (LSWMO) Environmental Health Council of Nigeria

DRC

US. Agency for International Development

Zambia

Southern Water & Sanitation Company (SWSC) ____ Lusaka Water Supply & Sanitation Company (LWSC) Western Water Supply & Sanitation Company (WWSC) Ministry of Health (MoH)

South Africa

Department of Water & Sanitation (DWS)

Uganda

Water Utility Regulation Department (WURD) Kampala Capital City Authority (KCCA) National Water & Sewerage Corporation (NWSC) Ministry of Health

Ethiopia

Ministry of Water & Energy

Kenya

Ministry of Water, Sanitation, & Irrigation (MoWSI) Water Services Regulatory Board (WASREB) Water & Sanitation Providers Association (WASPA) Kisumu Water & Sanitation Company (KIWASCO) Malindi Water & Sewerage Company (MAWASCO) Nakuru Water & Sanitation Company (NAWASSCO)

Tanzania

Energy & Water Utilities Regulatory Authority (EWURA)

Malawi Lilongwe City Council (LCC) Lilongwe Water Board (LWB)







mainstreamed into utility

decision-making process

No existing standard operating procedures to guide data system principles



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Non-sewered sanitation data systems in sub-Saharan Africa are weak and fragmented

Data Generation

Data Analysis

Data Operationalization

- 1. Infancy of NSS data collection methodologies
- 2. Lack of baseline NSS data
- 3. Inadequate political will and investments
- 4. Weak data capacities
- 5. Fragmentation of NSS data collection

- 6. Fragmented NSS data storage systems
- 7. Limited of regulation and clear reporting frameworks
- 8. Poor data quality
- 9. Inadequate compliance monitoring





Non-sewered sanitation data systems in sub-Saharan Africa are weak and fragmented

Data Generation

Data Analysis

Data Operationalization

- 1. Lack of automated data validation tools
- 2. Project driven analysis
- 3. Insufficient skilled personnel
- 4. Absence of interoperable data systems
- 5. Under-utilization of GIS capabilities

- 6. Inaccurate GIS mapping
- 7. Financial constraints
- 8. Absence of NSS data systems guiding principles





Non-sewered sanitation data systems in sub-Saharan Africa are weak and fragmented

Data Generation

Data Analysis

Data Operationalization

- 1. Fragmentation of NSS data
- 2. Limited funding
- 3. Political interference
- 4. Limited operationalization of NSS data
- 5. Inconsistent data quality

6. Limited MEL frameworks and dedicated units





Significant opportunities exist to drive impact for NSS data systems

- Standardization of Data Protocols (KPIs, guidelines, policies, regulation): Establishing uniform data collection and reporting standards can enhance the reliability and comparability of sanitation data.
- 2. Investment in Digital Infrastructure: Allocating resources towards digital tools and platforms can streamline data management processes.
- **3. Capacity Building**: Training personnel in data management and analysis is crucial for the effective utilization of data systems.
- **4. Integrated Monitoring Systems**: Developing centralized platforms that aggregate data from various sources can provide a comprehensive overview of sanitation services and inform policy decisions.
- 5. Building a strong investment cases for NSS data systems





Dev-Afrique

DATA SYSTEMS FOR NON-SEWERED SANITATION IN SUB-SAHARAN AFRICA: STATUS, CHALLENDES, AND RECOMMENDATIONS

20 25

REPORT



DESCRIPTION

This report examines non-sewered sanitation (NSS) systems across Sub-Saharan Africa, highlighting key gaps, challenges, and practical solutions for utilities, municipalities, and regulators to strengthen data-driven service delivery, strengthen accountability, and attract investment.

DOWNLOAD THE REPORT









Dev-Afrique

Questions & Answers



Summary and close

Irene Gai

WASH Systems & Programme Partnerships Senior Manager WaterAid



Upcoming webinars



World Health Unicef 🕼 🖁 WaterAid

Webinar 4: Scaling up service delivery in rural settings – 13 May

Webinar 5: Scaling up service delivery in urban settings – 27 May (TBC)

Webinar 6: Human resource capacity for safely managed sanitation – 17 June (TBC)

Register here:

