

KEYNOTE



The Momentum Moment: Inclusive Safely Managed Sanitation at Scale

*Roshan Shrestha, PhD, Deputy Director (Retiring)
Water, Sanitation & Hygiene, Gates Foundation*

GLOBAL EVOLUTION OF WASH FROM IDWSSD TO SDGs: 45 YRS JOURNEY

1981 - 1990

**International
Drinking Water
Supply and
Sanitation Decade
(IDWSSD)**

1981



1st UN-led global Decade
improved drinking water for 1+ billion
Basic sanitation for millions
Exposed finance & capacity gaps
Path to New Delhi Statement (1990)

1990



**Equity & Foundations for
MDG Targets**

1990 - 2000

New Delhi Statement (1990):
shift to equity and basic services for all
World Summit for Children (1990): WASH
linked to child survival and public health
Dublin & Rio (1992):
IWRM, environmental focus, women's
roles, stronger water governance
Global Monitoring (1990 baseline):
foundation for future MDG water &
sanitation targets

2000 - 2015
MDG Era – Target 7C



2000

MDG Target: Halve the population
without safe drinking water and basic
sanitation
2002 – WSSD (Johannesburg):
Reaffirmed water and sanitation as global
development priorities
2008 – International Year of Sanitation:
Mobilized political commitment and
public attention
2010 – UN Resolution: Human Right to
Water and Sanitation formally recognized

2015



**SDG Era – Universal, Safely
Managed WASH**

2015 - 2030

Shift from basic/improved to
universal, equitable WASH and **ending
open defecation**
**2017: First WHO/UNICEF JMP SDG
baseline;** introduction of safely
managed sanitation
2018–2028: UN Decade “Water for
Sustainable Development” advancing
SDG 6

2030

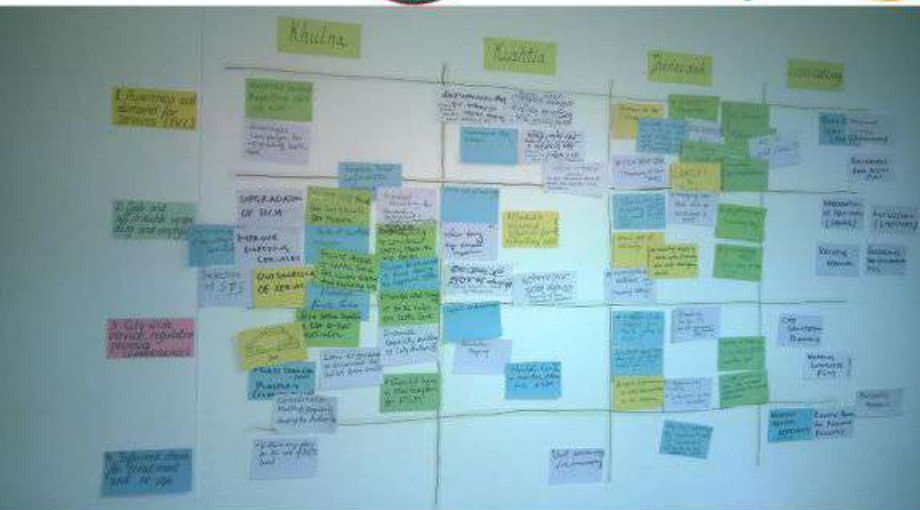
2030 +

IWA – 2004 AVIGNON, FRANCE

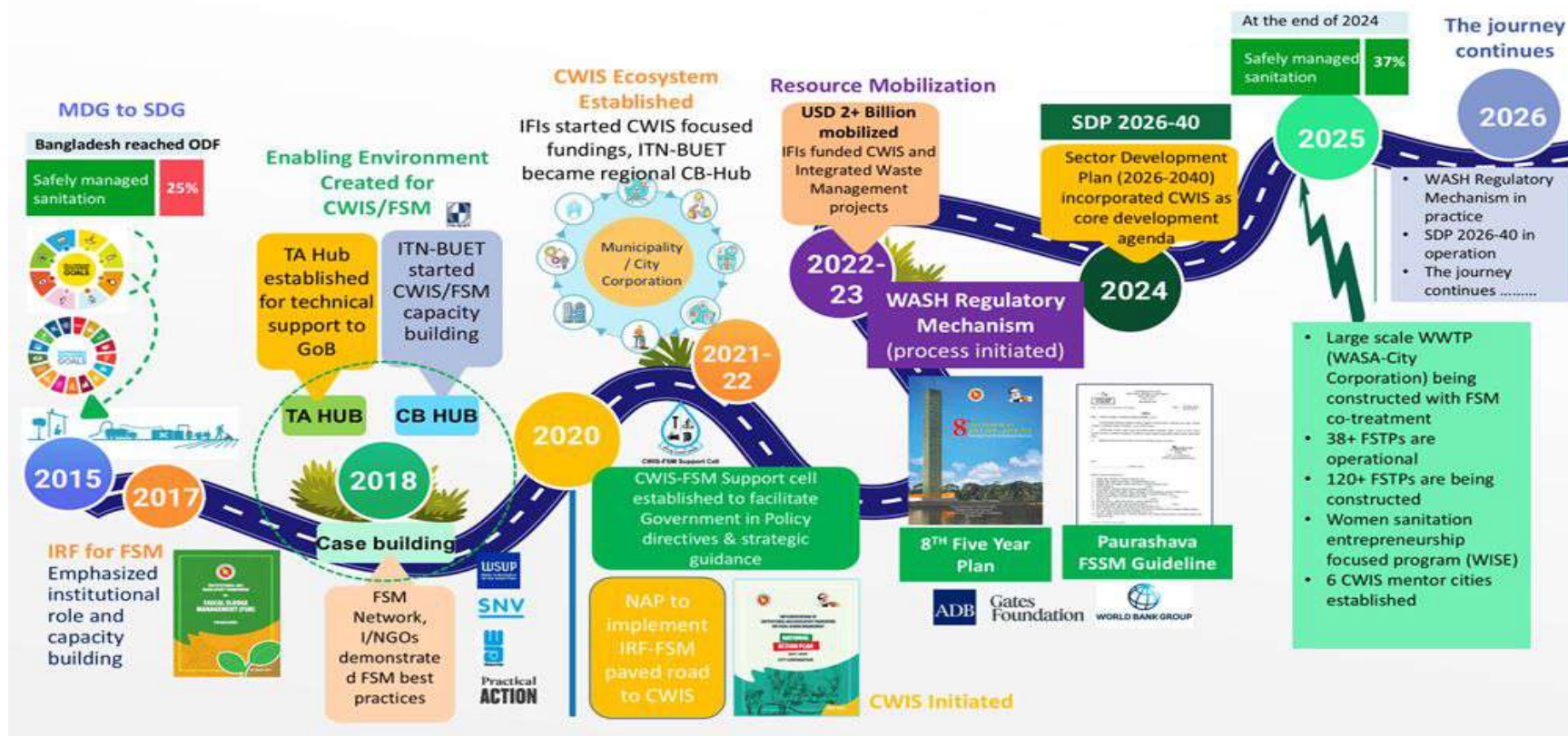


TRIGGERED TO RETHINK - 2011





SANITATION JOURNEY IN BANGLADESH SINCE 2015



SANITATION JOURNEY IN INDIA SINCE 2014

National Policy Movement



National Workshop
on Urban Sanitation,
April 2016



MoUD at FSM4
February 2017



National FSSM Policy
released at National
Workshop, 28th
February 2017



Primer on FSSM
on City's Journey
Beyond ODF -
FSSM,
September 2016



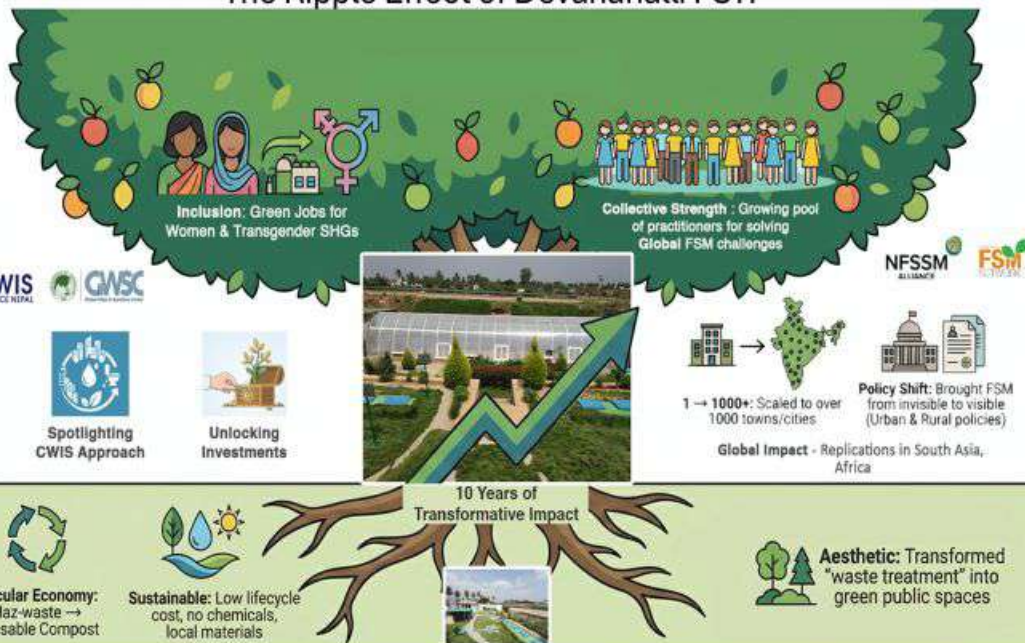
Atal Mission for
Rejuvenation
and Urban
Transformation
- AMRUT 2.0

- Cabinet approves the Atal Mission for Rejuvenation and Urban Transformation - AMRUT 2.0 for 2025-35
- Total indicative outlay of ₹2,71,000 crore
- Targets universal coverage of water supply by providing household tap connections to all 4.376 statutory towns
- 100% coverage of household sewerage/septage management in 500 AMRUT cities
- Provide 3.68 crore tap connections and 2.64 crore sewer/septage connections



Scaling FSTPs from the first demonstration in 2015/16

The Ripple Effect of Devanahalli FSTP



CWIS | A PUBLIC SERVICE SYSTEMS APPROACH - 2018



CORE CWIS OUTCOMES

EQUITY

Services reflect fairness in distribution and prioritization of service quality, prices, deployment of public finance/ subsidies



SAFETY

Services safeguard customers, workers and communities from safety and health risks by reaching *everyone* with safe sanitation



SUSTAINABILITY

Services are reliably and continually delivered based on effective management of human, financial and natural resources



CORE CWIS FUNCTIONS

RESPONSIBILITY

Authority(s) execute a clear public mandate to ensure safe, equitable and sustainable, sanitation services for all

ACCOUNTABILITY

Authority's(ies') performance against mandate is monitored and managed with data, transparency, and incentives

RESOURCE PLANNING & MANAGEMENT

Resources—human, financial, natural, assets—are effectively managed to support execution of mandate across time/space

VAST PARTNER ECOSYSTEM IN INDIA | STRENGTHENING INSTITUTIONAL VOICES



Odisha Urban Academy (OUA)

Sharing learnings of Odisha's urban development to nationals and regional partners. Institution strengthening process on; Payment framework available



Valuing water in developing countries



Dr. Manu Maitra
Value of Water Conference, Frankfurt
March, 2020

CWAS, CRDF, etc.

- CWAS has the voice and capacity to inform on inclusive sanitation through research
- Pivoting to next generation solutioning through research on Climate and Sanitation

Global South Academic Conclave on WASH and Climate 2020

1250+ Participants
120+ Sessions
30+ Countries
250+ Organizations

- WASHi is a preferred knowledge and resource partner to MoHUA, offering govt. advisory, policy and implementation support
- Participating in State tenders for Used Water Management – UP, Odisha, AP, Kerala



INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD GLOBAL SANITATION CENTRE OF EXCELLENCE



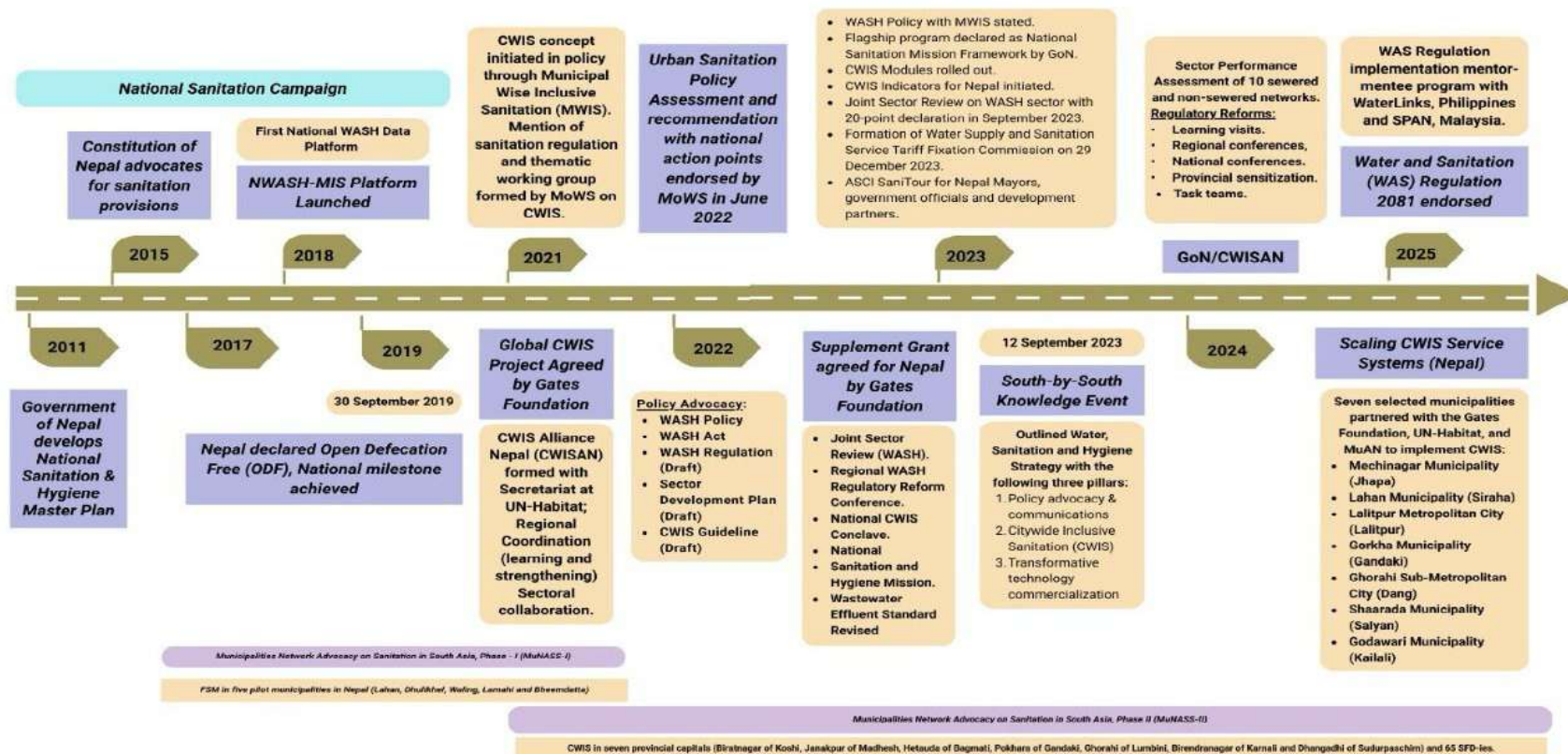
GSCE IIT Palakkad leading localization of ISO standards for India



WIH Platform working with multiple commercial and sector partners for WASH Innovations in India



SANITATION JOURNEY IN NEPAL SINCE 2011



COLLABORATIVE EFFORT IN NEPAL - CWISAN

CWIS City Wide Inclusive Sanitation Alliance Nepal

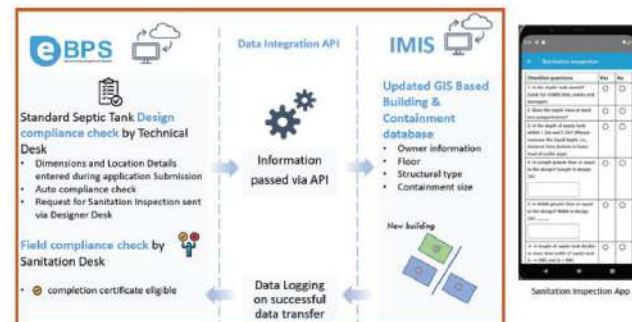
CWISAN

- Diverse members
- One collective vision voice and shared Mission
- UN-Habitat Secretariate
- Focus on three themes
 - Policy Influence and Monitoring
 - Advocacy
 - Capacity Building & practice

EXPERT INDIVIDUALS



27th December 2021



INCREASED INVESTMENTS BY IFIs TO SUSTAIN MOMENTUM

speeding up Sanitation in Asia

Introducing ADB's New Sanitation Financing Partnership Trust Fund

The Asian Development Bank and the Bill & Melinda Gates Foundation are working together to speed up access to safe sanitation in the Asia and Pacific region.

A New Sanitation Trust Fund

ADB and the Bill & Melinda Gates Foundation have established a new Sanitation Financing Partnership Trust Fund to accelerate access to sanitation across the region. The Trust Fund will be administered under the Water Financing Partnership Facility (WFPF), ADB's facility that pools and coordinates financial and knowledge resources from development partners for ADB's development work in water and sanitation.

Increased Sanitation Financing

An investment of \$15 million from the Bill & Melinda Gates Foundation into the Trust Fund will leverage over \$28 million in investments from ADB by 2017 to expand "non-networked" (i.e., non-sewered) sanitation and seepage (i.e., local sludge) management solutions across Asia.

Innovative Sanitation Solutions

The Trust Fund will support identification, testing, and pilot implementation of innovative sanitation solutions—new policies, business models and technologies—to increase support for non-networked sanitation and seepage management projects.

What the Trust Fund Can Finance

- Piloting innovations in sanitation and seepage management, including new technologies for seepage management and disposal in urban and peri-urban areas, and sludge treatment.
- Providing additional grant funds for innovations in ADB sanitation projects for seepage management and decentralized sanitation and wastewater management projects piloted in ADB's country partnership strategies.
- Supporting seepage management and sludge treatment policies, including policy and business innovations that improve the quality and coverage of seepage management.
- Supporting innovations in project delivery mechanisms, such as output-based aid for deployment of new technologies; and innovative financing models for sanitation systems, including maintenance and upgrades.

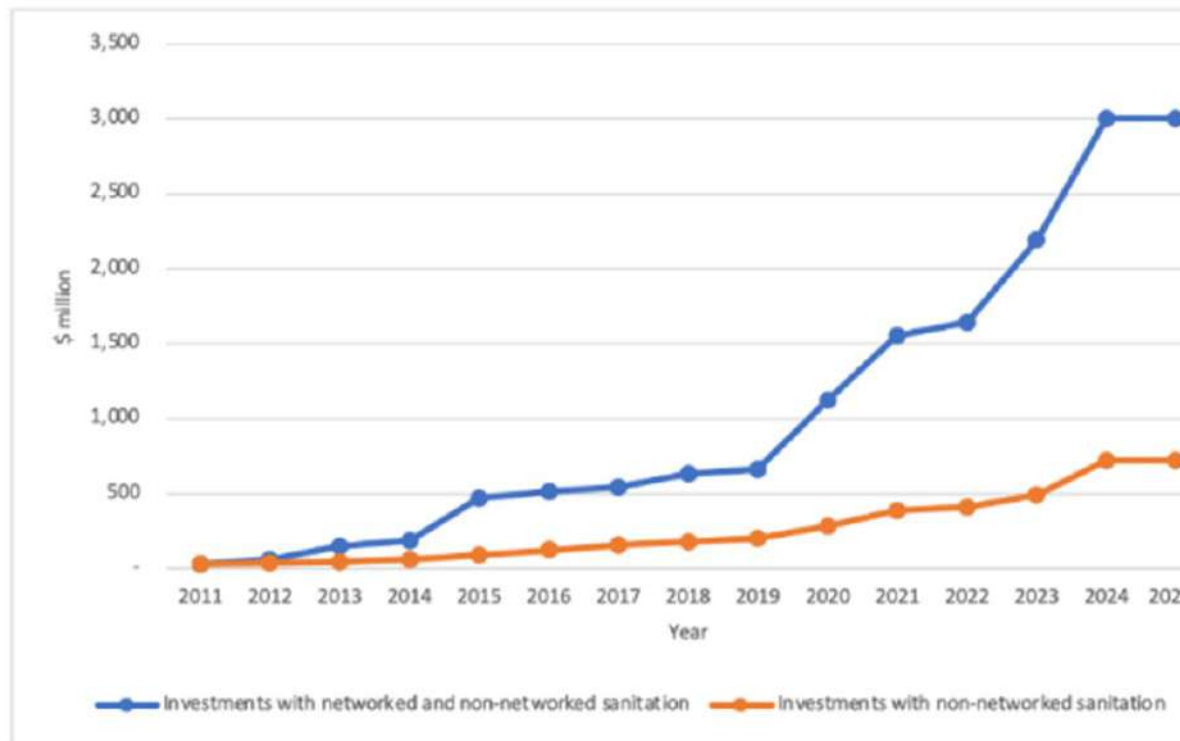
About ADB's Water Financing Partnership Facility
ADB's Water Financing Partnership Facility (WFPF) was established in 2006 to bring in additional financial and knowledge resources from various development partners to support the implementation of ADB's Water Financing Program. The Program aims to achieve the following targeted outcomes:

- 500 million people with safe drinking water supply and improved sanitation
- 93 million people with more efficient and productive irrigation and drainage services
- 170 million people with reduced risk of flooding

WFPF Trust Funds	
Multi-Donor Trust Fund:	US\$82.55 million
• Australia	• US\$ 24.21 million
• Austria	• US\$ 8.47 million
• Norway	• US\$ 5.07 million
• Spain	• US\$ 10 million
• Switzerland	• US\$ 5.2 million
Netherlands Trust Fund	US\$19.75 million
Sanitation Financing Partnership Trust Fund	US\$19 million

ADB

BILL & MELINDA
GATES Foundation



*as of 30 June 2025

CWIS PLANNING TOOL: TOWARDS INCLUSIVE SANITATION



Integrated Municipal Information System (IMIS)

BUILDING ACCOUNTABILITY | SOUTH ASIA'S DIGITALISATION JOURNEY



Strengthening of Public Data Systems for Sanitation Service Delivery (Bangladesh and Nepal)



To integrate public data systems at both sub-national and national levels creating a unified ecosystem to catalyze Sustainable Development Goals (SDG) 6.2 outcomes.

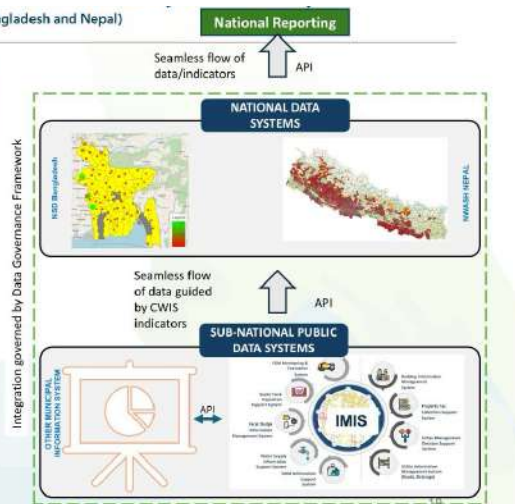
Enhancement and implementation of sub-national Public Data System:

Integrated Municipal Information System (IMIS)

Enhancement of National Public Data System:

National Sanitation Dashboard (NSD) - Bangladesh
NWAHS Management Information System - Nepal

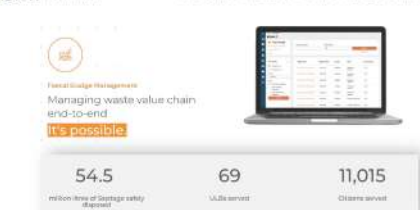
Integration of Public Data Systems



PAS - a self assessment digital system to measure and monitor service outcomes and sustainability



DIGIT Sanitation



SCALING REGULATORY MOMENTUM



If you want to go far- go together: Regulation at the heart of systems transformation

Inclusive Sanitation Regulation Framework and supporting guidelines developed and under implementation

Adopted and contextualized by countries:

Zambia, Kenya, Tanzania, Burundi, Zanzibar, Rwanda, Botswana, Malawi, Mozambique

Utility mandates extended to include non-sewered sanitation and private operators under formalisation

Utilities:

Zambia (11), Kenya (93), Tanzania (87), Malawi (5)
National: Burundi (1), Zanzibar (1), Rwanda (1), Botswana (1), Mozambique

Formalised technical trainings introduced to enhance capacity of actors to execute mandates

WSS Regulation Training Centre launched in 2024 with over 500 sector actors trained in water supply and sanitation service provision and regulation

Partner collaborations – publications, webinars, trainings
UNICEF, WSUP, WHO, WIN, IWA



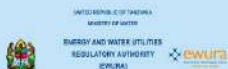
Digital Tools developed to enhance sanitation service provision and service resilience

Smart Sanitation



welcome to smart sanitation

Introduction of Service Provider+Regulator Platform in collaboration with AIWASA and PASA to close loop between regulation and service provision



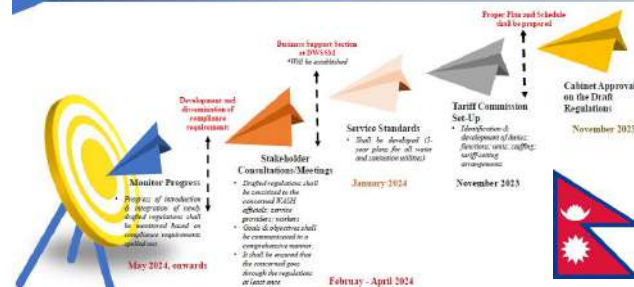
GUIDELINES FOR ONSITE SANITATION AND FAECAL SLUDGE MANAGEMENT FOR WATER AND SANITATION AUTHORITIES, 2020

Over 80mil gaining access to quality and affordable services through accelerated uptake

Nepal's Strides through Regulatory journey



Regulation ROLL-OUT



Bangladesh initiates its Regulatory journey

Ministry of Local Government, Rural Development & Cooperatives
Local Government Division
Policy Support Branch
www.lgd.gov.bd

No.46.00.0000.016.22.071.22-400

Date: 17/09/2023
01 September 2023

OFFICE ORDER
The following Regulatory Council (RC) is formed to coordinate the Policy and Technical Support for supporting Water Supply and Sanitation Regulatory Mechanism Development in Bangladesh:

- | | |
|--|------------------|
| 1. Adviser/Minister, MoLGD&C | Chairperson |
| 2. Senior Secretary/Secretary, Local Government Division (LGD) | Member |
| 3. Senior Secretary/Secretary, Ministry of Water Resources | Member |
| 4. Senior Secretary/Secretary, Ministry of Industry | Member |
| 5. Senior Secretary/Secretary, Health Services Division, Ministry of Health and Family Welfare | Member |
| 6. Senior Secretary/Secretary, Ministry of Environment, Forest and Climate Change | Member |
| 7. One WASH sector specialist (to be nominated by the Search Committee)* | Member |
| 8. One Specialist from academia (to be nominated by the Search Committee)* | Member |
| 9. Additional Secretary, Water Supply Wing, LGD | Member Secretary |

*Search Committee consists of three members: 1. Secretary, LGD; 2. Vice-Chancellor, BUET; 3. Any distinguished water sector expert nominated by the chair.

Terms of Reference (ToR):

(1) Give policy directives in tariff setting, price regulation, service quality, competition, consumer protection, environment and public health.

MAKING SANITATION WORKERS COUNT



Ensuring safety and dignity of sanitation workers in urban & rural India & Bangladesh

Garima Scheme, Odisha, 2020
Coverage – 115 ULBs



SWDS, Tamil Nadu, 2022
Coverage – 649 ULBs



NAMASTE, Pan India, 2023
Coverage – ~4800 ULBs



~185,000 Sanitation workers recognized across

Bangladesh national level integration of BMS app in 2024



Standard Operating Procedure – Safety and Dignity of Sanitation Workers in Rural India, 2024



Key components

- Visibilising sanitation workers- IT-enabled identification.
- Recognition as **highly skilled professionals**.
- Institutionalising **ERSU** for safe sanitation services.
- Promoting **mechanization** to eliminate manual cleaning.
- Ensuring fair **wage** systems with risk & hardship allowance.
- Enhanced access to **social protection schemes**.
- Ensuring provision of gender-specific **PPE**.
- Creating a **training ecosystem** for workers.
- Establishing **resting facilities** for sanitation workers.



Sanitation Worker Takes Center Stage at 6th FSM Convention in Bangladesh

By Practical Action in Bangladesh • 21.03.2024 WASH & waste Blog

View local news

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Nasima Begum, a sanitation worker, delivered the keynote paper at the 6th FSM Convention held on March 2nd at the Institute of Architects Bangladesh (IAB) in Dhaka. The Faecal Sludge Management (FSM) convention brought together government officials, NGO leaders and sanitation workers to address the safety and dignity of sanitation workers, sanitation financing, and progress in implementing the City Wide Inclusive Sanitation (CWIS) Model in Bangladesh.



ADB Funded CB events for Sanitation Workers in Nepal



A Capacity Building Initiative for Safety, Dignity, and Well-being of Sanitation Workers



Developed Resource pool in 2 cities of Nepal

TECHNICAL ASSISTANCE FRAMEWORK TO SUPPORT IFIs INVESTMENTS

Strategic partners



Academic partners



- School of Engineering and Technology
- School of Environment, Resources and Development
- School of Management

Served areas



Global Sanitation Graduate School



Funding partners



Execution partners



MENTORING THE MENTORS

MALAYSIA:

1970's



Direct discharges



Bucket toilet



Polluted rivers



Sewer overflows



Crumbling STPs



Today



- Holistic governance
- Regulation
- Strong utilities
- Infrastructure
- Management

Model for many countries: exposure visits, twinning, mentoring

Malaysia is a model, and through various programs of the Foundation, officials and professionals from India, Nepal, Bangladesh, Indonesia as well as many other countries participated in learning and exposure visits to Malaysia, and numerous initiatives in these countries have been inspired from these visits.



Capacity Development of City Officials to Perform as Mentor

Capacitate the potential cities to function as hubs of knowledge mentoring other cities in BD & Nepal in sanitation adopting CWIS

The mentee cities will be able to-

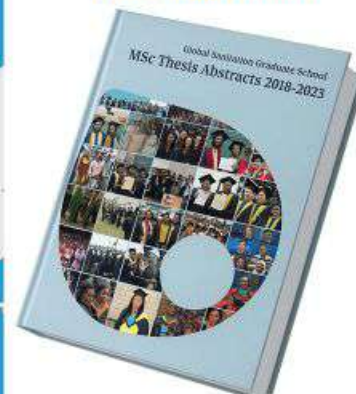
- evaluate the applicability of innovative public sanitation facilities in their context
- foster stronger network within municipalities
- be encouraged for ongoing efforts in sanitation improvement



10 Mentor Cities from Bangladesh and Nepal



EMBEDDING LEARNINGS IN ACADEMIA | GSGS



MOBILIZATION THROUGH MUNICIPAL ASSOCIATIONS

Mobilized Political Leadership

Activated 500+ mayors and city authorities across Bangladesh and Nepal to champion SDG 6.2 and inclusive sanitation

Mainstreamed SFDs

Pioneered large-scale adoption of 120+ Shit Flow Diagrams (SFDs), now formally integrated into national WASH data systems

Strengthened Local Government Associations

Elevated MuAN & MAB as nationally recognized voices driving sanitation reforms

Enabled Policy Breakthroughs

Contributed to IRF, National FSM policies, WASH policies, municipal by-laws, and updated national training modules

Scaled Peer Learning

Ensured every municipality in Bangladesh and Nepal gained foundational CWIS knowledge

Advanced Gender Inclusion

Engaged women leaders, triggering national attention to Safe Public Toilets for Women

Amplified CWIS Globally

Showcased local leadership at UCLG ExBu, WWF, APFSD, AMF, Asian Mayors Academy, FSM7, and COP

Regional Commitments

Secured Bandung Call for Action 2025 and Kathmandu Declaration 2023, focusing on CWIS innovation, inclusivity, and continuous regional cooperation



United Cities and
Local Governments
Asia-Pacific



APEKSI



MuAN
Municipal Association of Nepal



ACVN
Hội kết các đô thị Việt Nam



Federation of Sri Lankan
Local Government Authorities

STRENGTHENING CIVIL SOCIETY NETWORK

FANSA AT A GLANCE



WASH CSO Network in **8** Countries
600 plus CSO members in
South Asia



Image Source:
South Asia
for Region

VISION:

An inclusive, equitable, and climate
resilient WASH facilities and services
for ALL in South Asia

Foundation Master Template (TO EDIT THIS TEXT: select Header & Footer on Insert tab)



Afghanistan
Pakistan
India
Nepal
Bhutan
Bangladesh
Sri Lanka
Maldives



Rising for the Rights:

Strengthening Civil Society Network in South Asia to achieve SDG 6



Call to Action: From Funding Gap to Action Gap

- **1. Shift the mindset.**

Stop obsessing over the *funding gap* — start focusing on the *how*. Money exists; we must tap into it differently.

- **2. Do “business as unusual.”**

Leverage new technologies, AI, improved communication, and South–South collaboration to optimize existing resources.

- **3. Strengthen public sector capacity.**

Support local governments and utilities with knowledge, systems, and accountability mechanisms — not just funds.

- **4. De-risk private sector investment.**

Use blended finance, philanthropy, and public funds to encourage small, medium, and large enterprises to enter the WASH business.

- **5. Redefine the roles of academia and non-governmental actors (Academia, INGOs, NGOs, Private Sector, and Civil Society)**

- **6. Build structured South–South collaboration.**

Turn dialogue into sustained, actionable partnerships across countries in the Global South.

- **7. Remember: The public sector is our boss. Work under their vision — but push for speed, accountability, and systemic change.**

MOMENTUM WILL CONTINUE.....!



THANK YOU ALL !!!!!





WORLD TOILET SUMMIT 2026

17–19 November 2026

■ **Safe Toilets. Reused Resources. Healthy Communities.**

A Global Gathering for:

- Public Sector Architects: Leaders, Mayors, Ministers, and Regulators.
- Private Sector Innovators: Manufacturers and Real Estate & Urban Developers.
- Financial Catalysts: IFIs, Development Banks and Private Equity.
- Community Partners: Water Utilities and Civil Society Organisations.

Be at the forefront of the 2026 Global Sanitation Agenda



T. BENJ

Asian Institute of Technology
Campus, Pathumthani, Thailand