
Capacity Building Initiatives

Dr. Tanvir Ahmed

Director, ITN-BUET

Professor, Department of Civil Engineering, BUET



Outline

- Brief overview of ITN-BUET strategy as National and Regional Capacity Building Hub
- Brief overview of Capacity-building program of ITN-BUET on sanitation
- ITN-BUET's achievements on sanitation innovation (2020 – 2024)

Building Capacity in the WASH Sector for 2 Decades



MISSION

To achieve a strong, capable human resource base for sustainable development of water supply and environmental sanitation

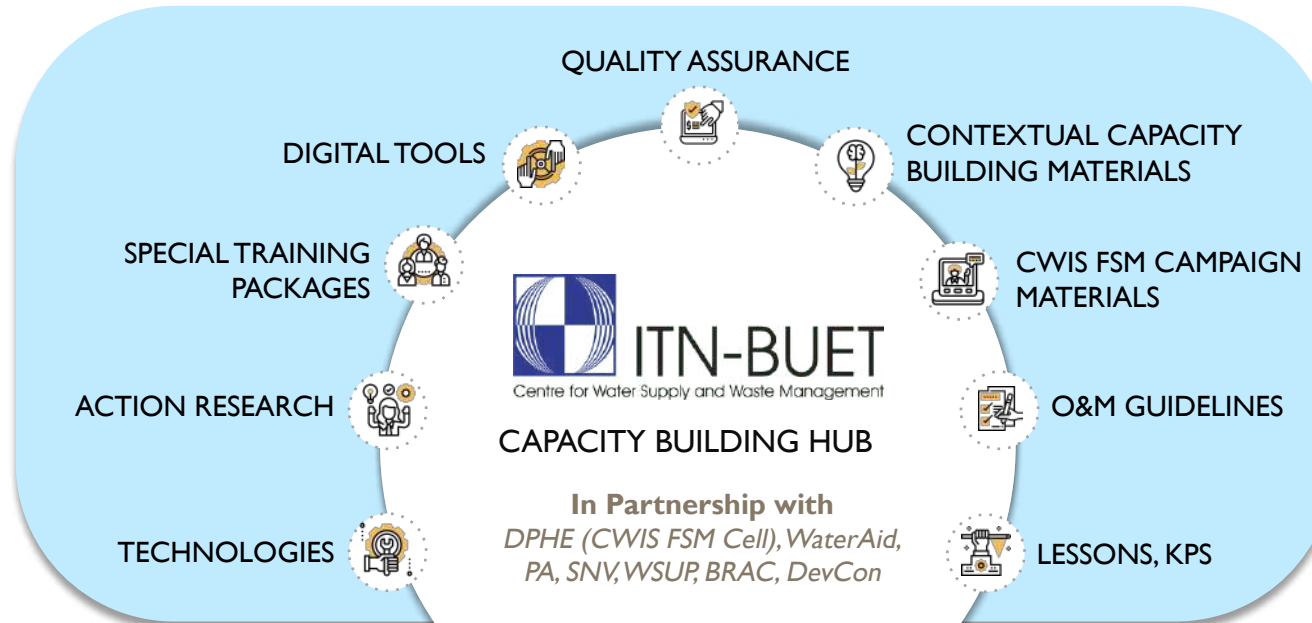
VISION

Striving for Safe Drinking Water and Environmental Sanitation

National & Regional Capacity Building Hub



CAPACITATE GOVERNMENT, AGENCY AND
CITY OFFICIALS



RESOURCE MATERIALS & LEARNING



TECHNICAL ASSISTANT



INDIA CAPACITY BUILDING PARTNERS



THAILAND
GWSC



MALAYSIA
INDAH WATER



ACADEMIC & TECH PARTNERS



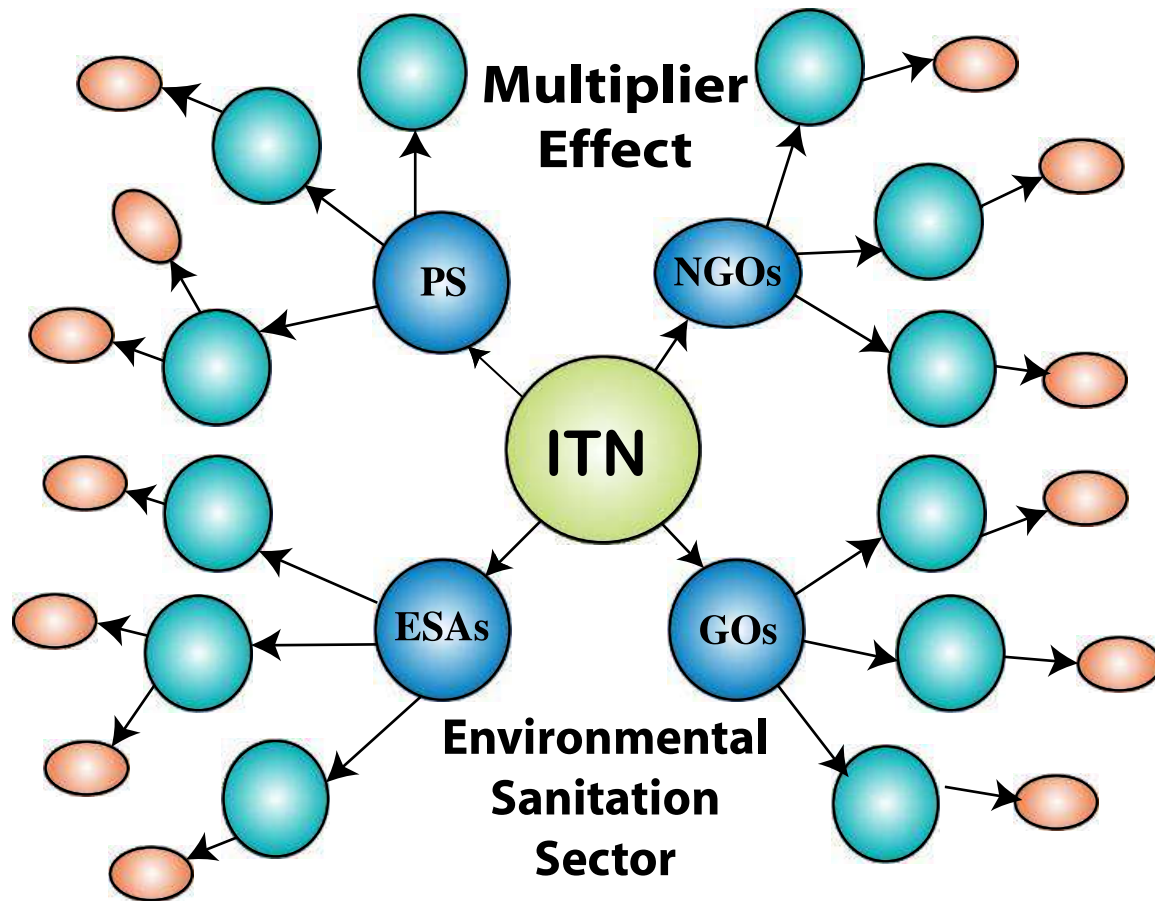
EAWAG



CAWST

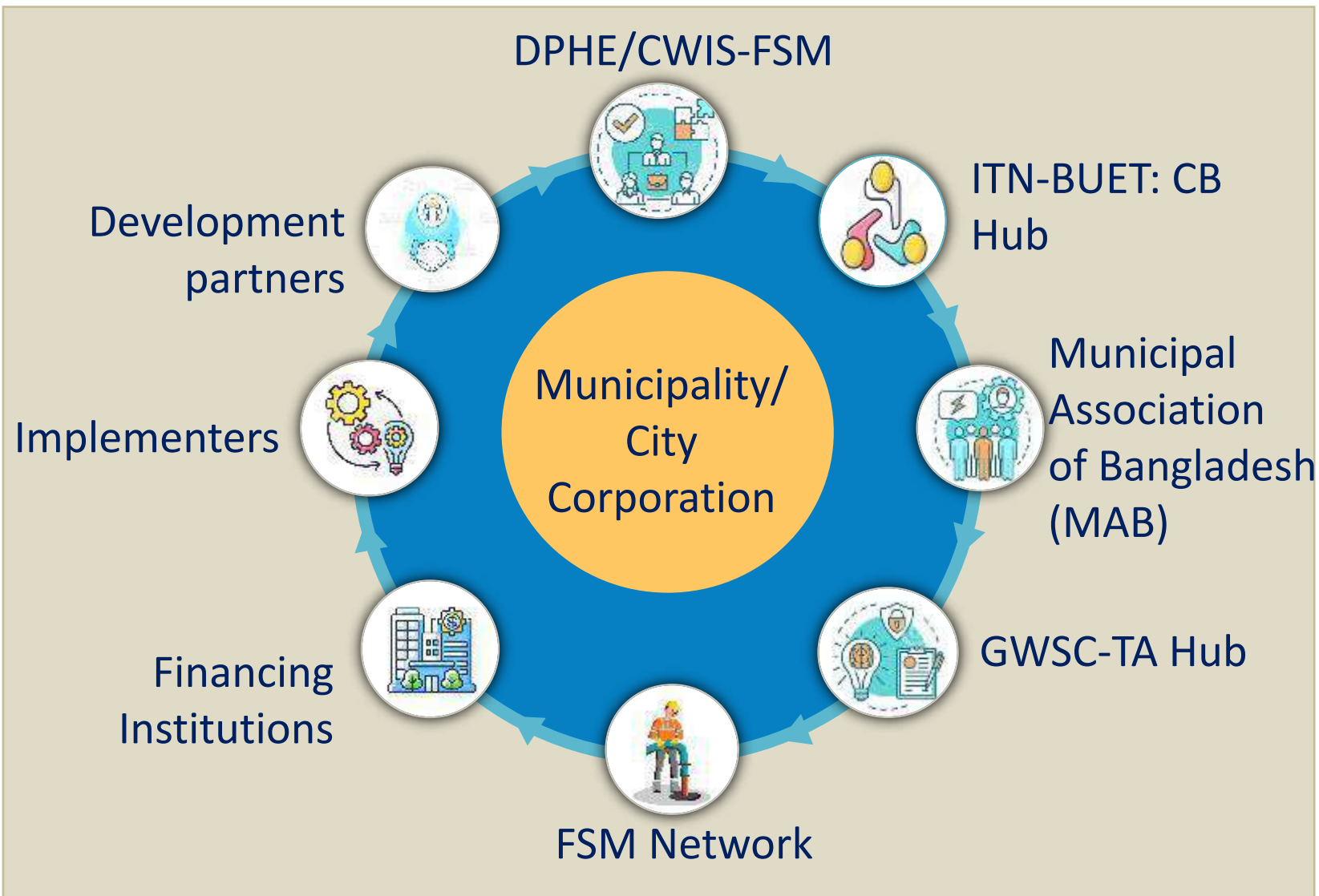


Networking Platform for Knowledge Transfer

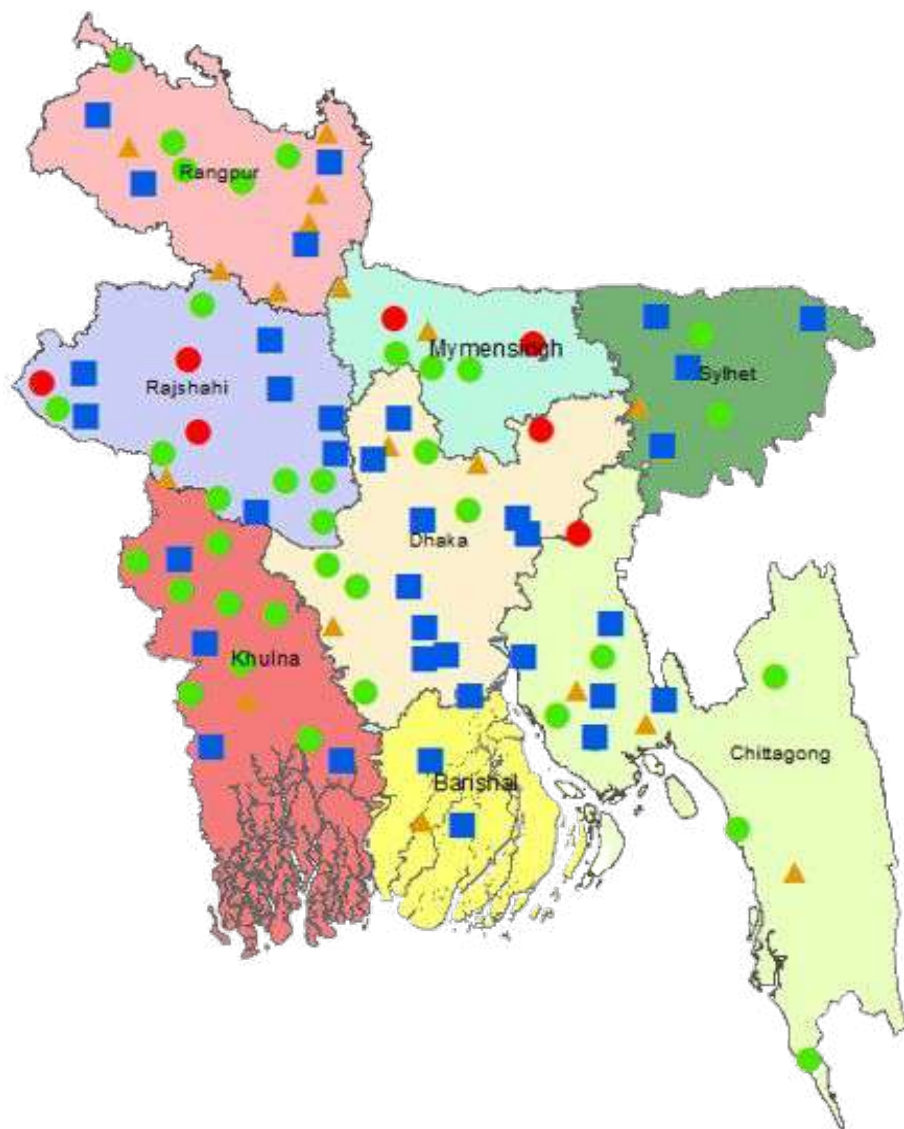


CWIS Ecosystem in Bangladesh

- To achieve safely managed sanitation by 2030 in Bangladesh the CWIS approach is paving the way
- The CWIS ecosystem has been developed around LGIs
- ITN-BUET integrated in the ecosystem as national capacity-building hub.



Technical Assessment to Identify Scope within Ecosystem



Fecal Sludge Treatment Plants in Bangladesh (2023)

	Status	Number
●	Operational	36
▲	Under Construction	19
●	Dysfunctional	7
■	Forthcoming (Planned)	36
	Total	98

Provided Technical Support for IFIs Funded Projects

ITN-BUET provided technical support in development of CB Strategy of & IsDB funded project of DPHE through CWIS-FSM Support Cell

CWIS-CB Implementation strategy for IsDB funded 10 towns project of DPHE



CWIS-CB Implementation strategy for AIIB funded 25 towns project of DPHE



IsDB
البنك الإسلامي للتنمية
Islamic Development Bank



CWIS-CB Packages List and Implementing Strategy for AIIB

#	List of Training (as outlined in DPP/ToR)	Target Group	Development/ Contextualization		Implementation Cost per Batch (million BDT)	Batch Details	Implementation Strategy
			Details	(million BDT)			
CWIS Readiness Packages							
1	Orientation on City Wide Inclusive Sanitation for Mayor, Councilors and city level officials (half day long)	Mayor, Councilors and city level officials	Developed by ITN-BUET (BMGF Funded). ToT Cost added.	1.0	0.25	Each city represents a single batch here covering 20-25 participants.	ITN-BUET will provide ToT to consultancy firms/NGOs engaged for CB at city level (need to include ITN-BUET as sole-source in DPP). The consultancy firm/NGO will provide training at the city level. Training venue to be provided by the city authority for free.
2	Training on City Wide Inclusive Sanitation for city level officials (3 days long)	Municipal staff and local DPHE Engineers engaged in FSM	Developed by ITN-BUET (BMGF Funded) May need contextualization	0.5	1.25	Each batch covers 20-25 participants from 4-5 cities.	ITN-BUET will directly implement (need to include ITN-BUET as sole-source in DPP).
3	Specialized Training on FSM – An Introduction to CWIS (3 days long)	Municipal staff and local DPHE Engineers engaged in FSM	Developed by ITN-BUET (BMGF Funded)		1.25	Each batch covers 20-25 participants from 4-5 cities.	ITN-BUET will directly implement (need to include ITN-BUET as sole-source in DPP)
4	Exposure visit to the CWIS implementing mentor cities	Municipal staff and local DPHE Engineers engaged in FSM			1.0	Each batch covers 20-25 participants from 4-5 cities.	ITN-BUET will directly implement (need to include ITN-BUET as sole-source in DPP)
CWIS Technical Packages							
5	Training of engineers on detailed design, construction and	Municipality and local DPHE Engineers	To be developed by ITN-BUET (BMGF Funded)		1.5	Each batch covers 20-25 participants	ITN-BUET will directly implement (need to include ITN-BUET as sole-source in DPP)

Lives and Livelihoods Fund (LLF): Capacity building support
Integrated sanitation and hygiene (integrated solid and fecal sludge management) project in 10 priority towns
বাংলাদেশের ১০টি অগ্রাধিকার ভিত্তিক শহরে সমন্বিত স্যানিটেশন ও হাইজিন (সমন্বিত কঠিন ও মালববর্জ্য ব্যবস্থাপনা) প্রকল্প

Table 1: Development and Implementation Modality of Training for Stakeholders (City Level Officials and Others)

#	List of Training (as outlined in DPP/ToR)	Tentative Completion Date	Availability/Readiness	Target Group	Initial implementation frequency	Estimated cost (million BDT)		Resource availability with CB-run	
						Development	Implementation	Development	Implementation
1	Training on CWIS-FSM for city level officials with equal focus on gender and DRR/CC lens (5 days long) – decision making, KPIs setting, incentives and punitive systems	April 2023	Available	Municipal staff and local DPHE Engineers engaged in FSM	2 batches (Each batch covers 5 cities & 20-25 participants)	-	2.5	N/A	✓
2	Specialized Training on FSM – An Introduction to CWIS	February 2023	Available	Municipal staff and local DPHE Engineers engaged in FSM	2 batches (Each batch covers 5 cities & 20-25 participants)	-		N/A	
3	Training of engineers on detailed design, construction and O&M aspects of FSM & SWM infrastructures and equipment (4 days long)	December 2023	Need to develop	Municipality and local DPHE Engineers	1 batch of 15-20 participants	2.0	2.0	✓	
4	Training on O&M of FSTP for Cities relevant staff (1 day long)	December 2024	Need to develop	NGO officials and municipal staff engaged in O&M of FSTP	1 batch of 20-25 participants	1.0	1.0	✓	
5	Training in Financial management for City authority (2 days long) – business and service models	December 2023	Need to develop	Administrative/ accounts officials of the municipalities	1 batch of 20 participants for 10 cities	1.5	1.0	✓	
6	Training on Integrated Information Management System (IIMS) – evidence based decision making, monitoring and evaluation	June 2024	Under development	Information management officials/ consultants working at the city level	Multiple trainings	-	-	✓	✓

Capacity Building Strategy

An Outcome-Oriented Approach: Guiding Principles

Results-driven

Knowledge
transfer

Context
Sensitivity

Networking &
Collaboration

Learning &
Improvement

Process Innovation

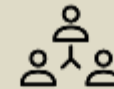
Baseline
Assessment

Training Need
Assessment



CB Packages
Development

Implementation
Strategy



Assess and
Adopt



Establish factual
basis for
decision-making
and planning

Prioritization &
ensuring relevant
training is
delivered

Develop CB
packages & training
delivery plan

Delivering training
to relevant
stakeholders

Short term/ Long
term Post training
assessment

CWIS Baseline Assessment

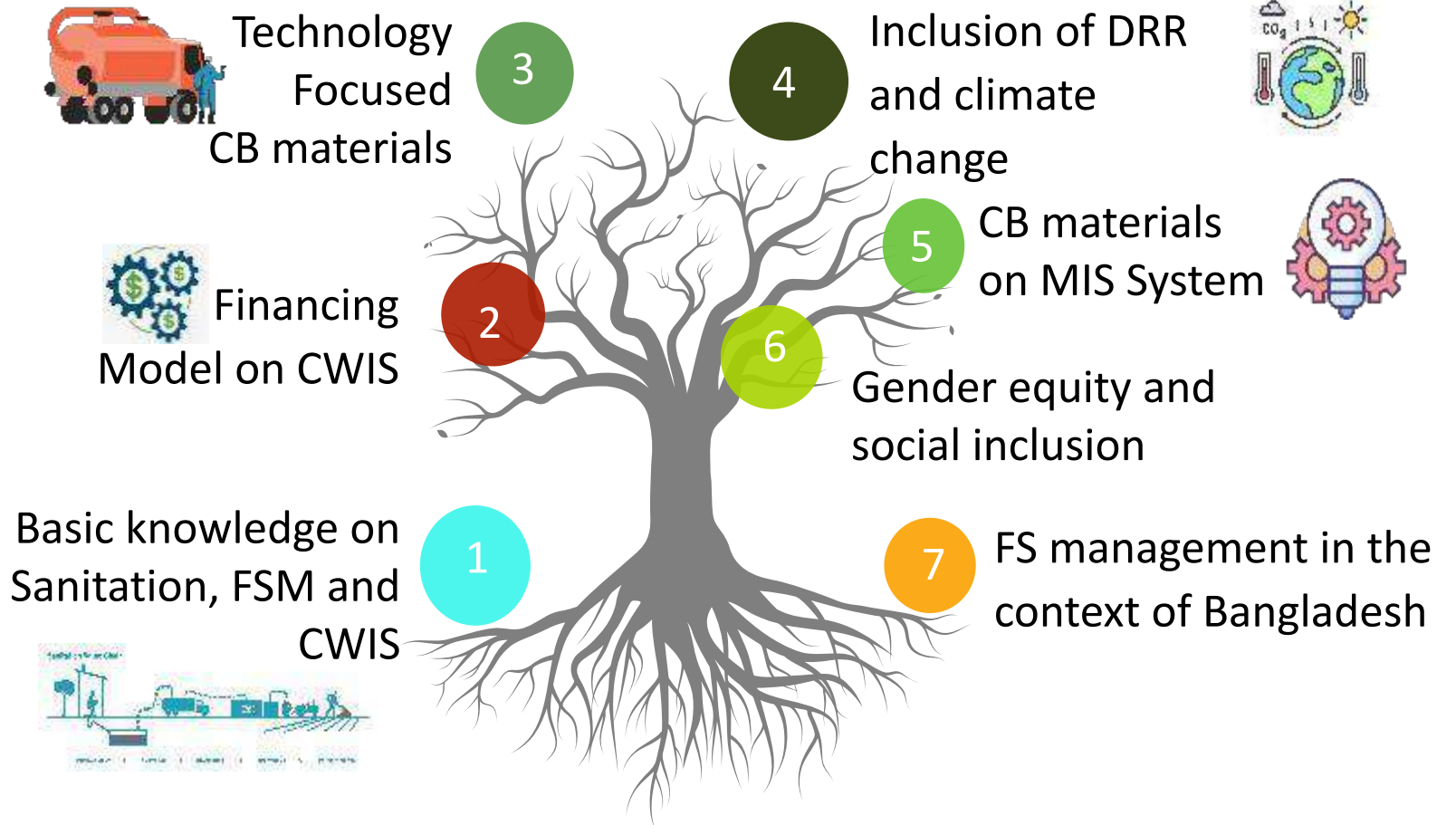
Gap Identification

Involving key sector stakeholders and Technical Assistance Hub within CWIS ecosystem.

- Mapped existing resource materials
- Identified CB resource gap and additional material requirements



Define Needs



Target Group Identification

Systematic level

Institutional Level

Individual level



Capacity Building Need Assessment for development Projects



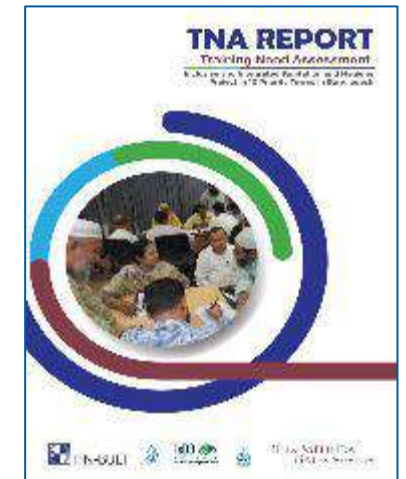
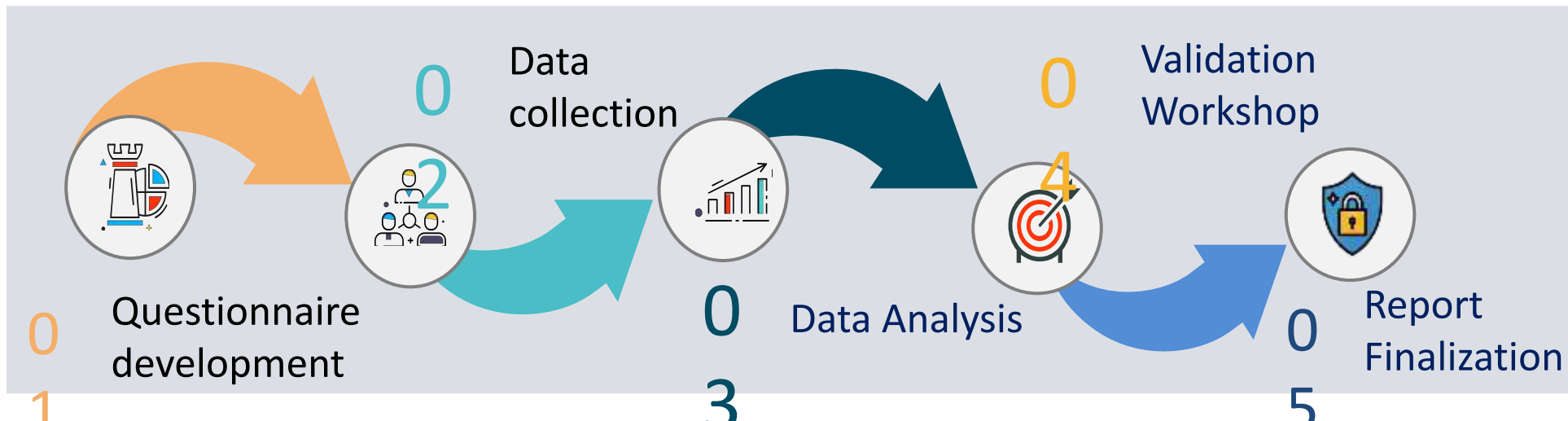
GoB-IsDB funded urban water supply and sanitation in 23 towns



GoB-ADB funded water supply and fecal sludge management project in 32 town



GoB-IsDB funded Inclusive and Integrated Sanitation & Hygiene Project in 10 towns



Comprehensive TNA: IsDB Funded 10 Town project

City specific Need Prioritization

TNA Outcomes for Lakshmipur Municipality			
Theme	High	Moderate	Low
Policy-Legislation			
Safe Sanitation			
CWIS Specialization			
Technology			
Gender Inclusion			
OHS-IPC			
IMIS			
Community Engagement***			
FSM Business Model			
Sanitation Action Plan			

Group specific Need Prioritization

TNA Outcomes for municipalities under LLF project			
Theme	Decision Maker	Admin Personnel	Technical Personnel
Policy-Legislation			
Safe Sanitation			
CWIS Specialization			
Technology			
Gender Inclusion			
OHS-IPC			
IMIS			
Community Engagement			
FSM Business Model			
Sanitation Action Plan			

***Capacity Enhancement around community engagement is less prioritized not the community awareness and engagement program

Module Development Framework

Engagement of Sector Experts

Consultations meetings/workshops with global, regional and national experts to lock learning objectives and collect available resources



Content development aligning with learning objectives using adult learning strategy with accuracy and relevance

Content development

Iterative Improvement

Continuous feedback accumulations to refine the module through validation workshops, consulting or piloting.



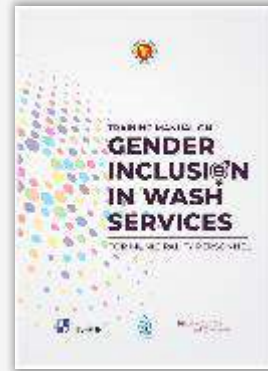
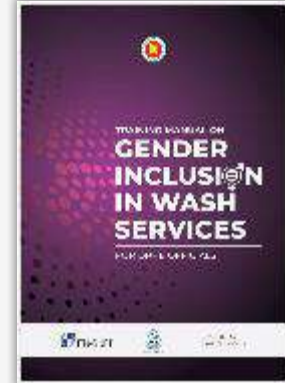
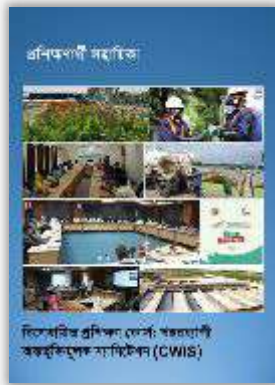
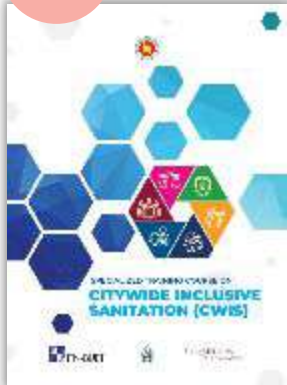
Module finalization following the evaluation from the pilot /validation workshop & incorporating feedback received

Module finalization

Capacity Building Packages

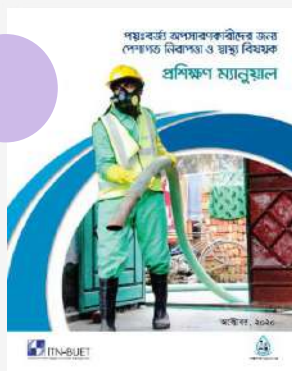
CWIS Learning Packages

- Orientation (Bangla+English)
- Specialized (Bangla+English)



Gender Inclusivity Packages

- Gender in WASH for DPHE
- Gender in WASH for municipality

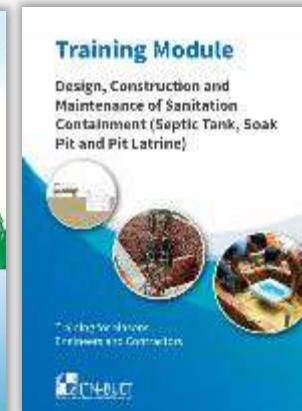
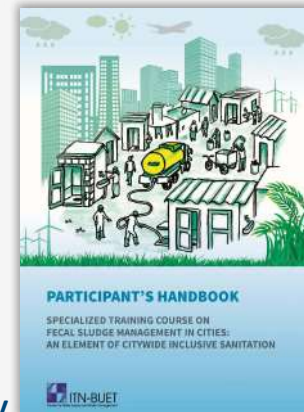


OHS Packages for Sanitation Workers

- ToT on OHS
- OHS Handbook

Technical Packages

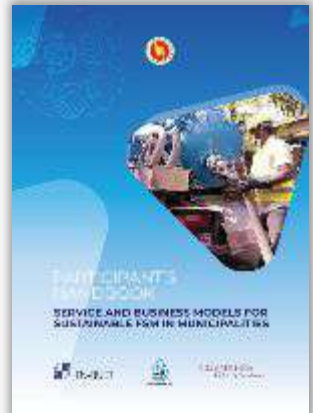
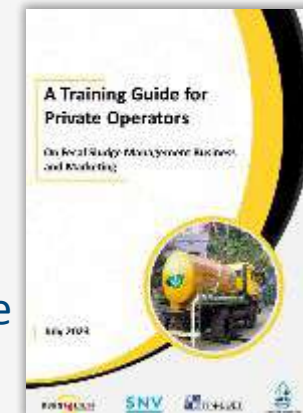
- Construction of containment system
- Specialized course on FSM



FSM awareness campaign

Business Packages

- Business model for public service delivery authority
- Business strategy for private operator



Capacity Building Implementation Modality

Modular Based

Orientation for decision makers



ToT for Resource Pool



Need based Training for Stakeholders



Hands on training for ground level staff



Non-modular CB interventions

Advocacy

1. Policy brief and orientation
2. Technical advisory/support (IRF-FSM, SSP, By-laws)

Mentor City Approach

Transform potential cities into resource centers to mentor other cities in excelling at sanitation

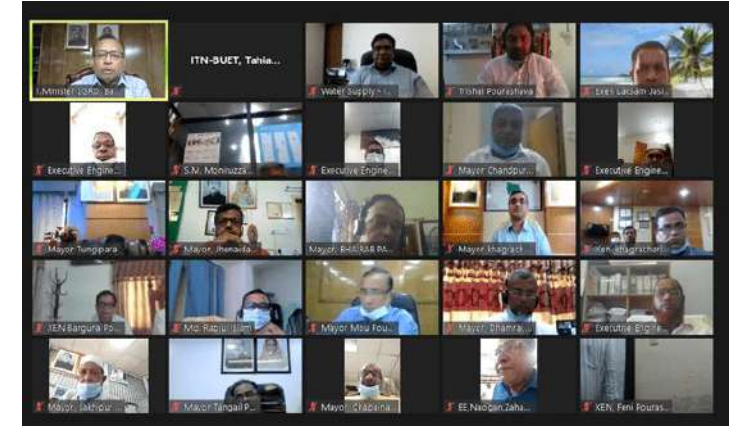
Exposure Visit

Facilitate learning by practical insights through direct observation and interaction

Evidence Generation through research

Facilitate effective decision-making, policy formulation and program development

Orientation for Top-Level Decision Makers



Advocacy at the Highest level of the Ministry

Orientation on CWIS for top level decision makers and city leaders

Orientation on NAP for City Leaders and officials

Training Course for Development Partners

Zoom Webinar

You are viewing Sheela Sinharoy's screen

Recording

MUSE
Measuring Urban Sanitation and Environment

Gender mainstreaming in CWIS

Sheela Sinharoy, PhD MPH • 9 November 2021

EMORY ROLLINS SCHOOL OF PUBLIC HEALTH ATHENA INFORMATICS CIVIC FORUM KCCA iihs ITN-BUET

Participants: 124

Chat: Share Screen Raise Hand Pause/Stop Recording

12:00 PM

Total 90 personnel from UNICEF, UN Habitat and GIZ from different workstations received online training on basic concept of CWIS and FSM.

 38 Countries

 60 male

 30 female



CWIS Service Framework

CWIS builds on, rather than replaces, existing systems of sanitation delivery. However, CWIS is a new and distinct approach to service delivery that focuses on the provision of quality and improved services.

Zoom Webinar

Participants: 124

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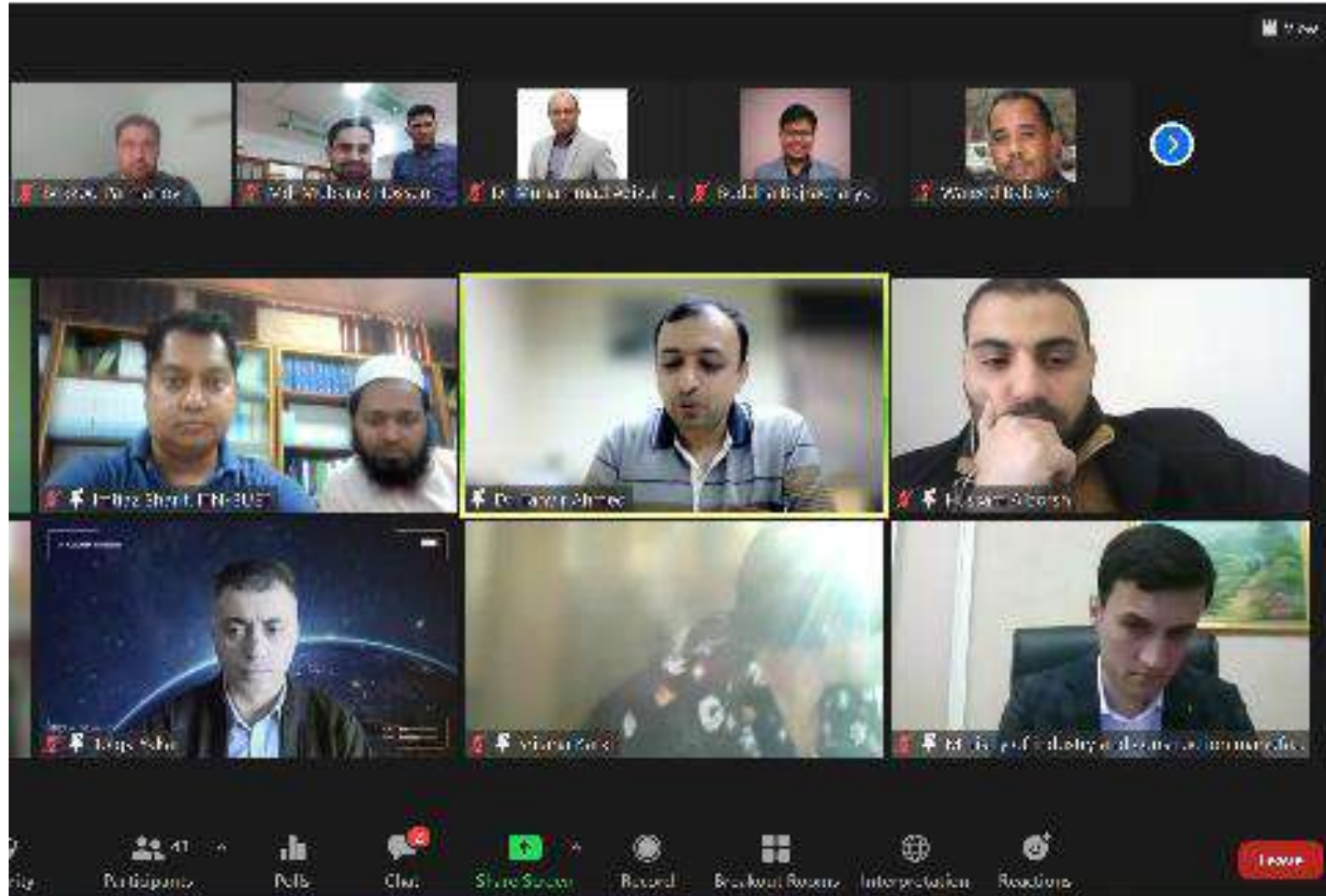
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Training on CWIS/FSM for IsDB Member Countries



Virtual CB program on CWIS/FSM



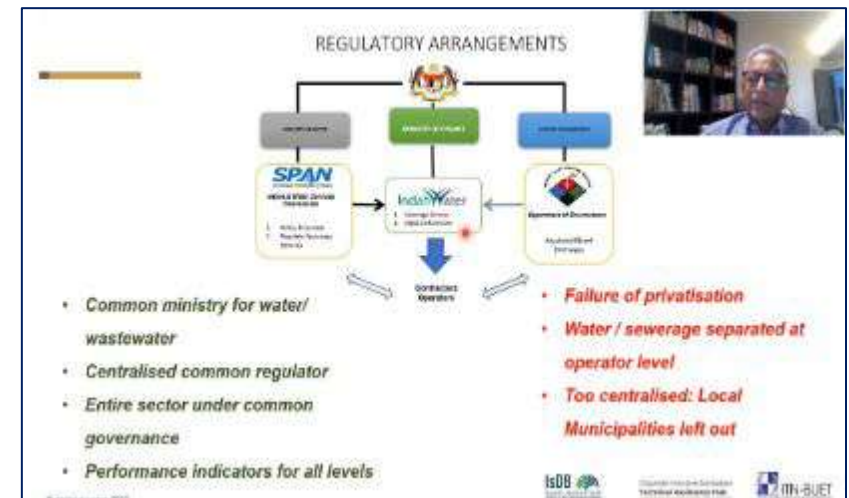
12 Countries



20 male



4 female



Capacity Building for IFIs Funded Projects

IsDB funded urban water supply and sanitation in 23 towns



IsDB funded Inclusive and Integrated Sanitation & Hygiene Project in 10 towns



ADB funded water supply and fecal sludge management project (UGIIP-3)



World Bank funded | Water Supply and Sanitation Project for 30 town



AIIB funded Bangladesh City Inclusive Sanitation Program in 25 Towns



GoB funded Water supply and FSM with environmental sanitation in 32 town



Capacity Building under World Bank Funded EMCRP



- Training on Environmental & Social Management Framework
- Training on Fecal Sludge Management
- Training on Solid Waste Management
- Training on emergency recovery framework
- Training on data collection and online monitoring
- Hazard, Vulnerability, and Risk Management
- Design and Construction of WASH Interventions Considering Climate Vulnerability & Disaster Resilience
- Training on Camp WASH improvement

280+ DPHE and Sector personnel capacitated on WASH Emergency Crisis

Capacity Building Events with Implementing Partners



**TOT on CWIS at
Saidpur jointly with
Wateraid**



**Orientation on CWIS to the
women leaders jointly with
MAB**



**CWIS training to the
implementing organization**

Capacity Building Events with Academic Partners



**Workshop on
Fæcal Sludge
Management at
RUET**



**Workshop on
Fæcal Sludge
Management at
Sylhet
Engineering
College**

Capacity Building Events for Ground level Staff

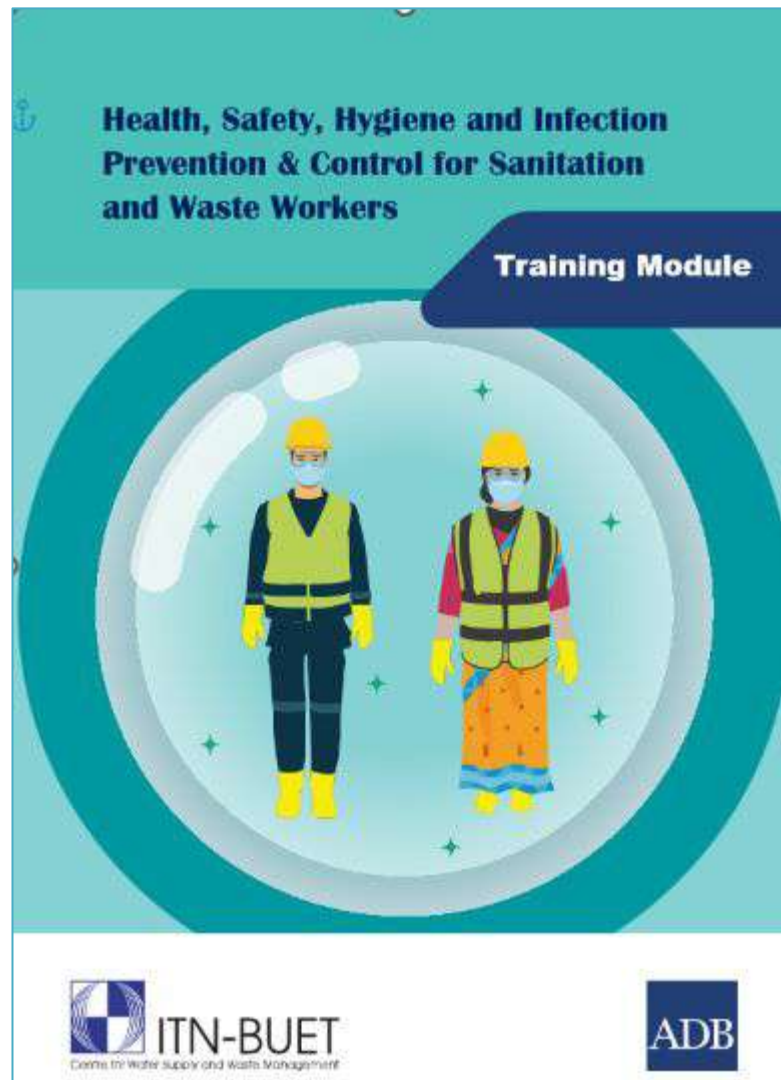


Septic tank Constructions and O&M training for Masons

Exposure Visit

Basics of WASH, IPC & OHS training for sanitation and waste workers

ADB Funded CB events for Sanitation Workers in Nepal



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



ASIAN DEVELOPMENT BANK



Developed
Resource pool in 2
cities of Nepal

Facilitating to Expand CWIS/FSM beyond the Region

CWIS Orientation and Content Development in Collaboration with WIN

Examine how concepts of governance play out in practice by mobilizing concrete case studies along the CWIS value change



Resource and content development for Bangladesh, Rwanda and Zambia



MODULE 1:
Basic Concepts:
Integrity and CWIS

MODULE 2:
Regulation on
CWIS

MODULE 3:
Integrity Risks along
the Sanitation Value
Chain

MODULE 4:
Strengthening
Integrity



Youth Awareness Program on Water and Sanitation

- Orientation on water issues and Challenges
- Menstrual Hygiene management
- Advocacy on Sanitation and Hygiene
- Field trip to Co-compost Plant/FSTP to get practical insight

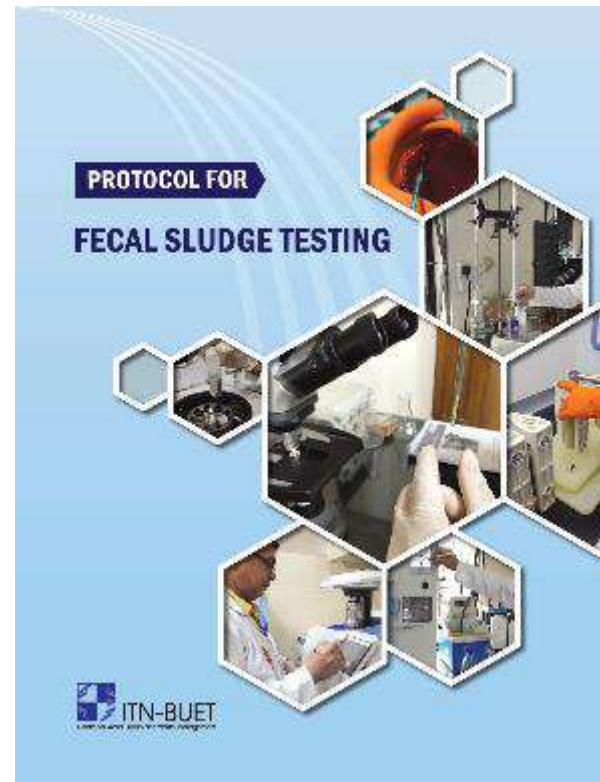
Laboratory Development and Capacity Building

Fecal Sludge Management Lab at BUET



The protocol offers a step-by-step guide for analyzing various parameters related to fecal sludge such as- FS characterization, solid and organic content, nutrients, and pathogenic organisms

Developed Fecal Sludge Testing Protocol



FSM Laboratory Training



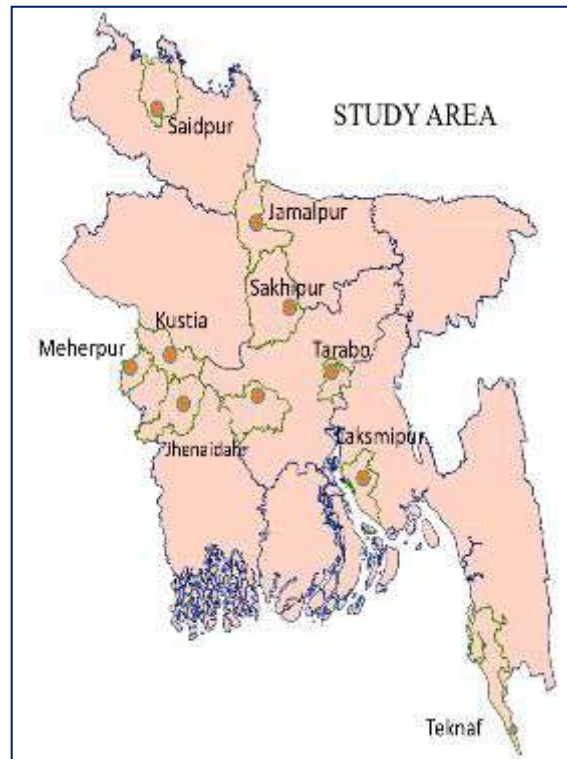
75+ lab Professionals trained
100+ sample tested

Capacity Development of City Officials to Perform as Mentor

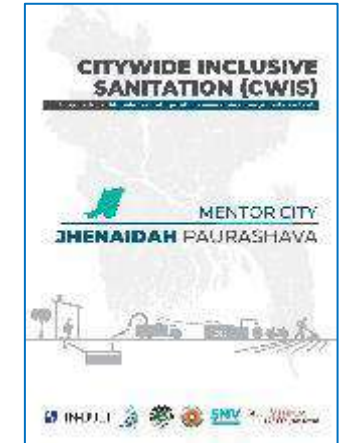
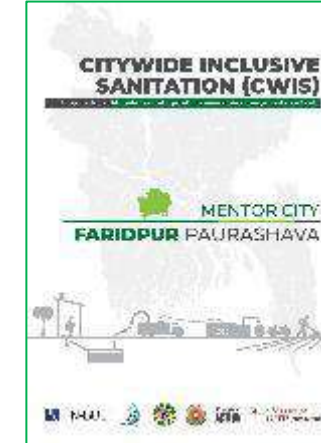
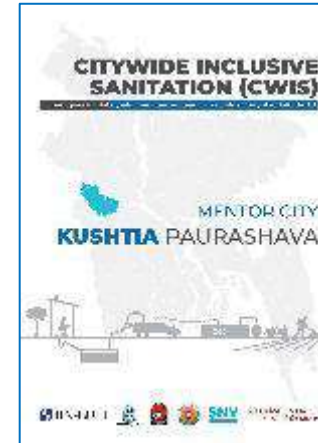
Capacitate the potential cities to function as hubs of knowledge mentoring other cities in BD & Nepal in sanitation adopting CWIS

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



Learning through Direct Observation and Interaction

Exposure Visit to Mahalaxmi and Waling in Nepal



Exposure Visit to Uppal, Boduppal and Warangal in India



CB Implementation Reflection (2020-2024)

CWIS/FSM Capacity Building Coverage

Orientation on IRF-FSM for all 329 Municipalities and 10 city corporation



556 personnels
Training on CWIS/FSM



120+ Mayors
On NAP

CWIS Orientation Course

329 Municipalities
10 city corporation



CWIS Specialized Course

100+ cities under all development project of DPHE

10 mentor
Cities in Bangladesh & Nepal



120 personnel
On GESI in WASH services



20 Masons
Training on OHS and technical aspects



277 city officials
ToT on OHS, SOPs and labor rights

60 Workers

Training on OHS and personal hygiene



Inclusivity in CB Approach

National Stakeholder



62%



38%

City officials



30%



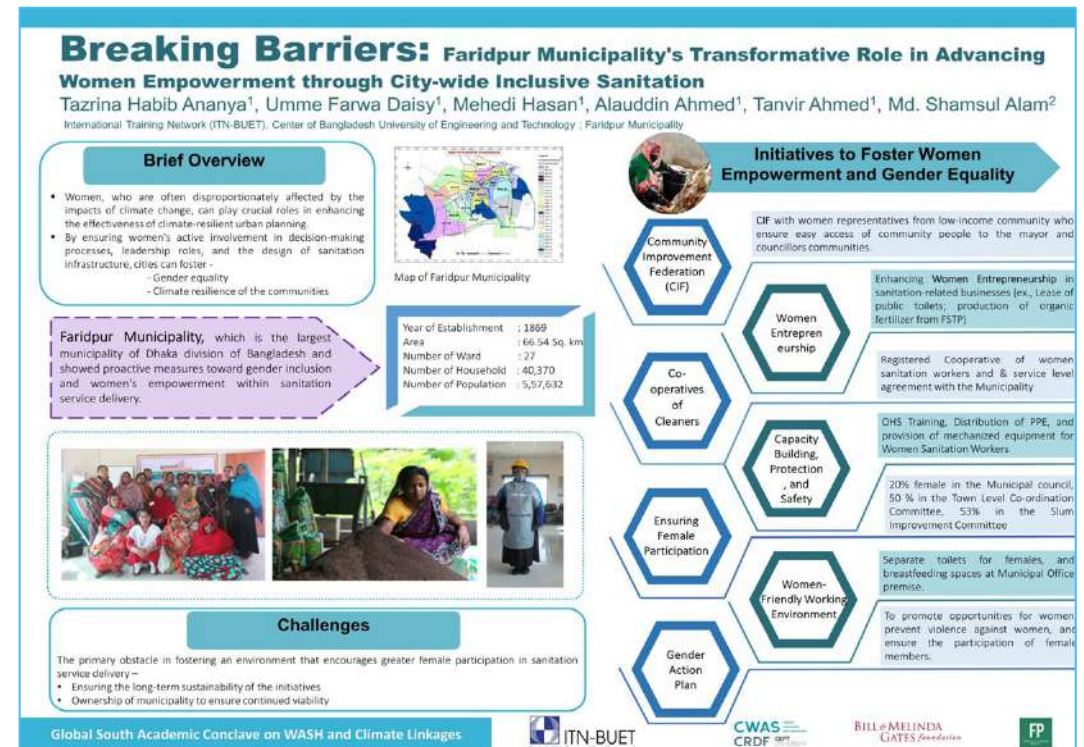
70%

Awards

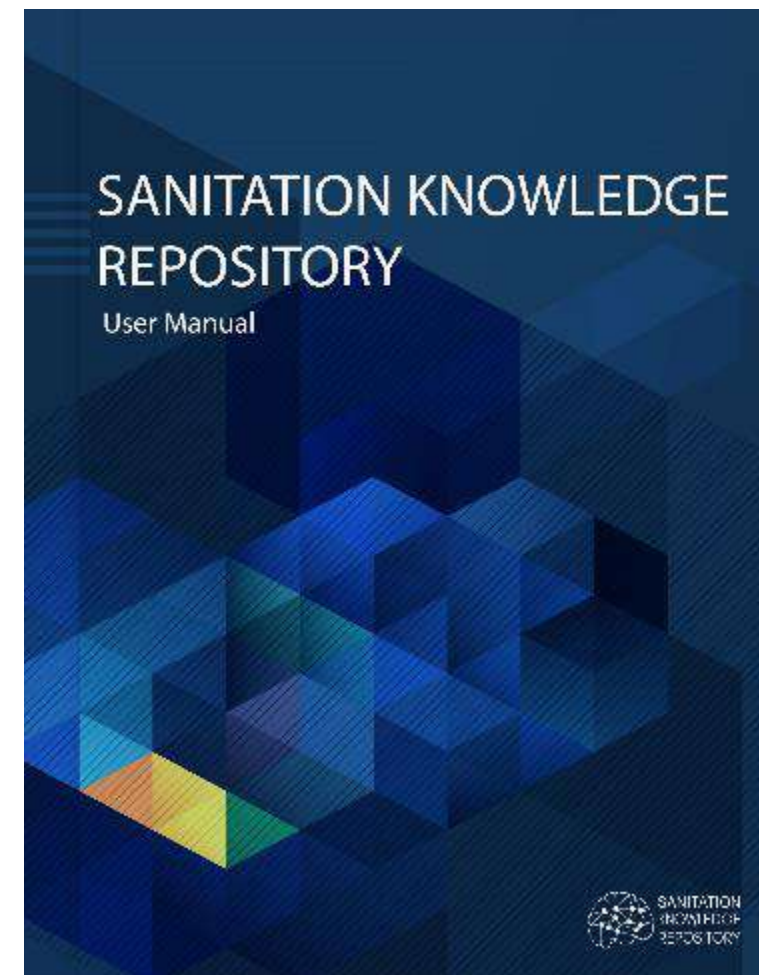
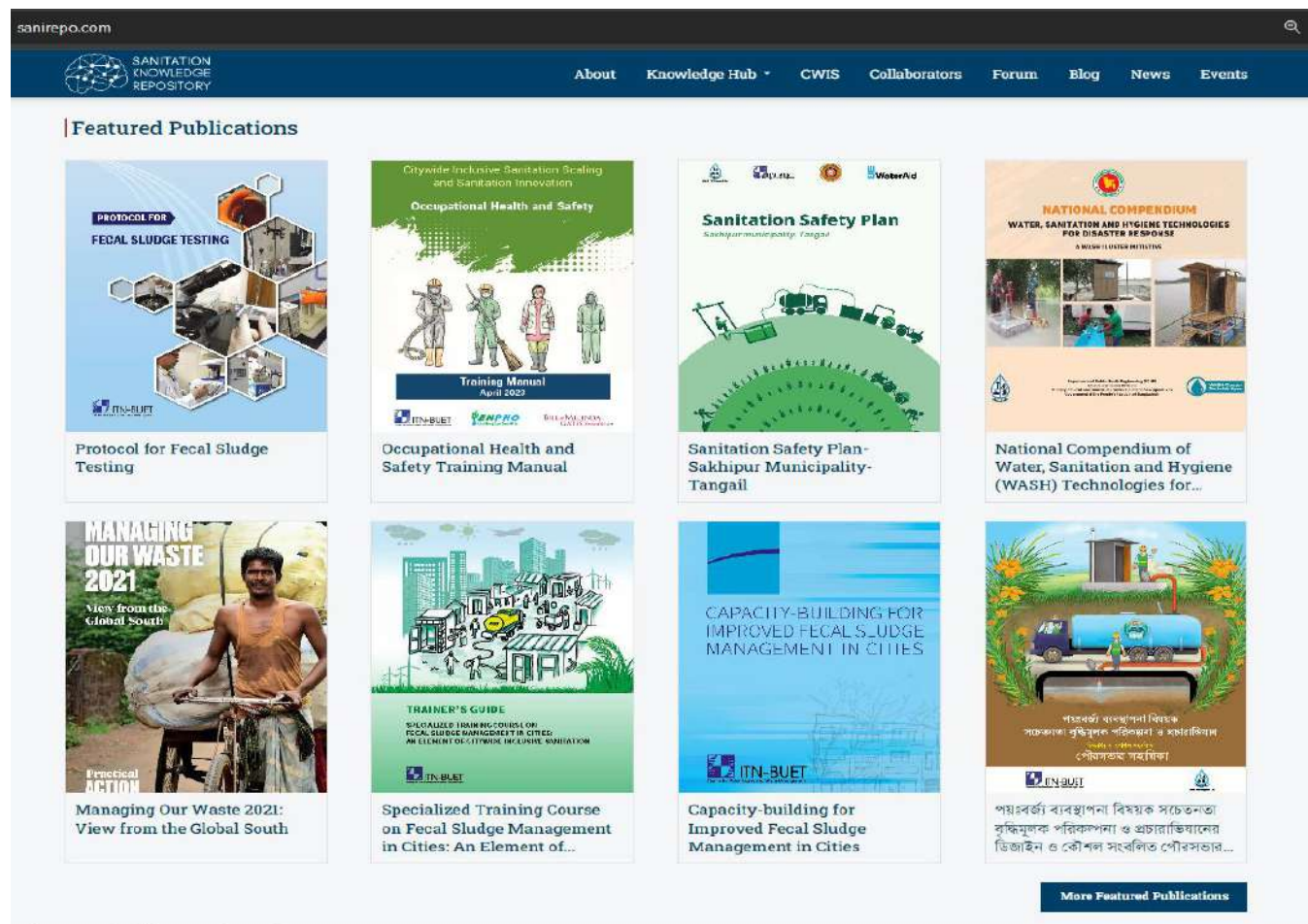
'Sanitation Workers Research Award' in the 2022 UNC Water and Health Conference



Best poster award at Global South Academic Conclave on WASH and Climate Linkages 2024



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