
Roshan
Shrestha

Deputy Director
Water Sanitation & Hygiene
Gates Foundation

My Journey 1990 to 2005

1990 Establishment of ENPHO



- Established on 4th November 1990
- Vision:** Creating Eco-Societies
- Mission:** Develop and Promote Appropriate Technologies to enable Societies become Eco-friendly.
- ENPHO as WASH demonstration center – Wastewater treatment system and recycling, Rainwater harvesting system, Composting, PoU options, different types of toilet, Indoor Air reduction technologies, DRR Stockpiling, WASH resource centre.

Celebrating 25 Successful Years

1991 Laboratory and Water quality



- Accredited by "Nepal Bureau of Standard and Metrology" under NEPLAS system based on ISO 17025 on 8th Kartik 2057 (24th October 2000).
- Equipped with various sophisticated instruments and facilities.
- Conducted drinking water quality analysis in all 75 districts.
- Water quality monitoring of Bagmati River has been done since 1990 to date.
- ENPHO Lab services:
 - Analysis and monitoring of Water, Wastewater, Air, Soil and Food quality.
 - Research and development on environmental technologies and solutions.
 - Technical support in environmental monitoring and assessment.

Celebrating 25 Successful Years

1994 PIYUSH® - Chlorine Solution



- In 1994, Piyush was developed as 0.5% chlorine solution for disinfecting drinking water at the household level. Piyush is the integral component of hygiene kit promoted in Nepal.
- Since 2010, ENPHO started production and promotion of Piyush plus (0.7% chlorine solution) to treat drinking water at larger volume (10 L and 15 L).
- ENPHO has been also promoting 1% chlorine solution for treating large volume of water on demand.

Celebrating 25 Successful Years

1997 Wastewater Treatment



- In 1997, introduced Constructed Wetlands for Wastewater Treatment System in Nepal. Established first plant for wastewater treatment through constructed wetland in Dhulikhel Hospital.
- Scaled up from institution to household and municipal level wastewater treatment. In 1999, constructed household scale CW at Dallu, Kathmandu and in 2004, constructed community scale plant at Sanga, Madhyapur Thimi municipality.
- In 2009, collaborated with BORDA for the promotion of DEWATS (Decentralised Wastewater Treatment System).
- More than 30 DEWATS at household, institution and community scale have been established.

Celebrating 25 Successful Years

2000 Arsenic Testing & Development of Kanchan® Arsenic Filter



- In 2000, conducted comprehensive arsenic testing in Terai districts
- Performed rigorous research on different arsenic mitigation options at the local level.
- Developed Kanchan™ Arsenic Filter in 2003 which was awarded by World Bank Development Marketplace competition.
- Kanchan™ Arsenic Filter (KAF) is low cost technology designed for the removal of arsenic, pathogens, iron and turbidity at household level. About 175,000 population are receiving arsenic free water by using KAF.
- Conducted health survey and studies in highly arsenic affected communities

Celebrating 25 Successful Years

2009 Youth Mobilization in WASH promotion



- Established Paschim Paaila, an informal youth network actively working on WASH, on 17th July 2009 with vision to create environmentally sound and Healthy Communities for sustainable development through Youth Led Initiatives.
- The network was established by the youth volunteers mobilized during the diarrheal and cholera outbreak in 16 districts of mid and far western region of Nepal in 2009. More than 1500 dedicated PaschimPaaila youth volunteers are actively being engaged in various WASH campaigns.
- Mobilized 400 youth volunteers during Gorkha Earthquake – 2015 response. Similarly youths were mobilized in Koti-Bajura Landslide in 2012, Dang Flood in 2013, Jure Landslide in 2014
- Successfully completed 39 series of WASH forum (1650 oriented) and 10 series of WASH Concern Workshops (251 participated).

Celebrating 25 Successful Years

2002 ECOSAN Toilet



- Introduced ECOSAN Toilet in 2002 at Khokana.
- ECOSAN Toilet is a urine diversion toilet and two types of ECOSAN toilet has been promoted in Nepal: Dry and Wet ECOSAN toilet.
- Conducted research on Urine application, crop productivity in Khokhana, Gundu, Horticulture Centre and Birendranagar municipality.
- About 3500 people benefitted by ECOSAN Toilet with 650 Ecosan Toilets in 11 districts.
- Provided support to establish local entrepreneurship on ECOSAN and urine business at Darchowk and Birendranagar.

Celebrating 25 Successful Years

2004 Knowledge management and advocacy



- Established well-equipped ENPHO Resource Centre
- Resource Center collects, stores and disseminates information and uses them to conduct education and advocacy campaigns
- Knowledge dissemination through website www.enpho.org and publications such as E-Bulletins, ENPHO magazine, Anjuli and IEC materials on WASH
- Produced and broadcasted tele-series- "Dhalmati" and "Jalpari" focusing on sustainable sanitation and water conservation.
- Paschim Paaila, a youth network, has been engaged in WASH advocacy.
- Networking through membership and partnership with various national and international consortium, forum, committee, cluster alliance.

Celebrating 25 Successful Years

2005 Rainwater Harvesting System



- Advocacy on Rainwater harvesting system as an alternative source of water at community and policy level.
- Promoted RWHS at institutions including schools by incorporating large bio-sand filter for the rainwater treatment.
- Developed rainwater harvesting design manual/ rainwater harvesting installation manual.

Celebrating 25 Successful Years



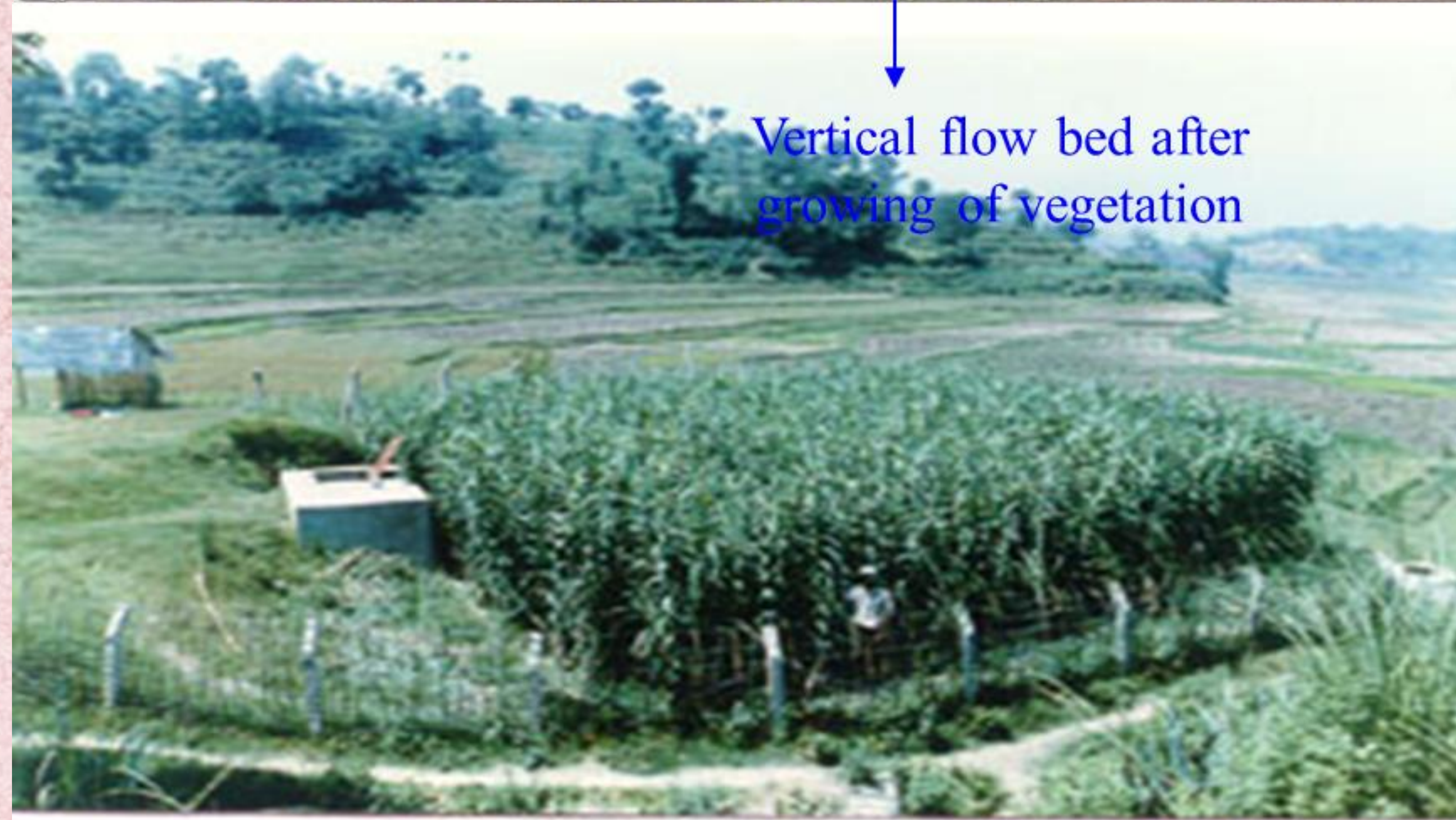


Reed Bed Treatment system just after completion



Before treatment

After Treatment

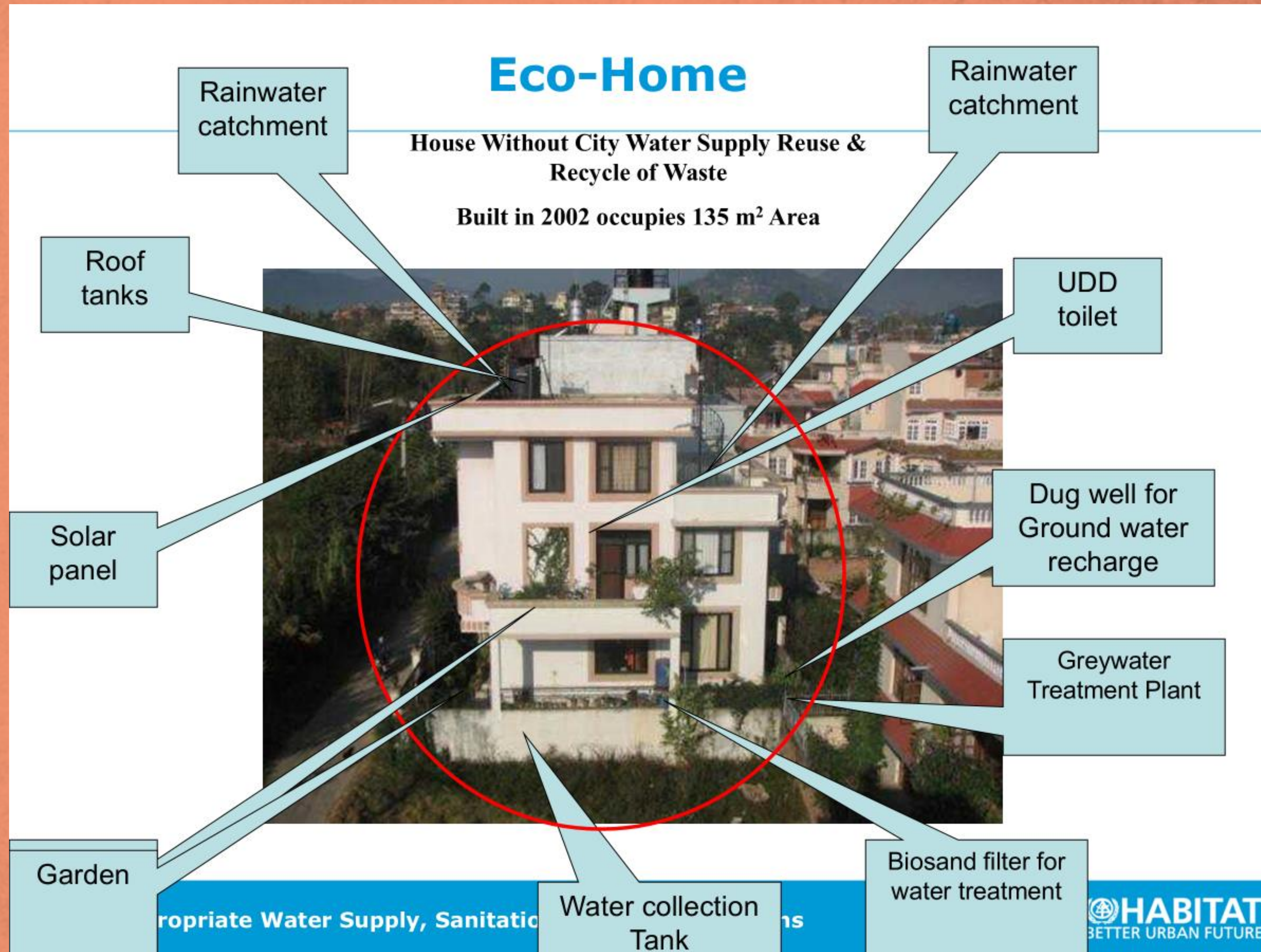


Vertical flow bed after growing of vegetation





My Journey 1990 to 2005



ECO-HOME

An approach to sustainable water management
Use water wisely based on Human Values

No water to flush-modern toilet separates urine & faeces

Area of house & space: 135 m² (4 anna 1 palai)
Family size: 4 members

Catchment area: 90m² for rainwater harvesting

Ground water recharge through dugwell

Urine & faeces collection tanks at the basement

Urine as fertilizer

Silent features of ECO HOME

- ZERO Waste House (no discharge of waste water and solid waste)
- Everything, including urine and faeces, with natural sanitation
- Very low water consumption (approx 5400 litres per month)
- Rainwater harvesting possible of 80,000 litres per year
- No municipal water supply in the house (but 4 galls sufficient) can water supply for 7 months (April-May to Oct-Nov) & gets water from the recharge dugwell to the house (2 points, New Dec. at Bhatkal)

Water Demand and Clean Water Requirement of Eco-Home

Purpose	Litres / Month
Drinking & Cooking	800
Dishwashing, Bathing & Laundry	1800
Toilet flushing, Cleaning Vehicle & Sanitation	1250
Total water demand	3850
Reuse of Treated Greywater	3000
Clean water requirement	850

Rainwater Underground Storage Tank

Compost out of faeces

Grey water (from kitchen & bathroom) treatment system (Constructed wetland) Area: 5 m²

Solar Panel for Electricity

Compost bin for kitchen waste management

500L for drinking water treatment

Big sand filter to treat dugwell water

Terrace garden maintained with the application of urine & faeces compost

Vegetable, fruits and Flowers flourished with the application of urine & faeces compost

A two year boy watering the plants - a right time to begin values based water education

HABITAT
BETTER URBAN FUTURE

Water for Asian Cities Programme Nepal
UN-Habitat, P.O. Box 187, Kathmandu, Nepal
Tel: +977-1-4242018, Fax: +977-1-4242027
E-mail: nepal@unhabitat.org
www.unhabitat.org

UN-HABITAT
FOR A BETTER URBAN FUTURE

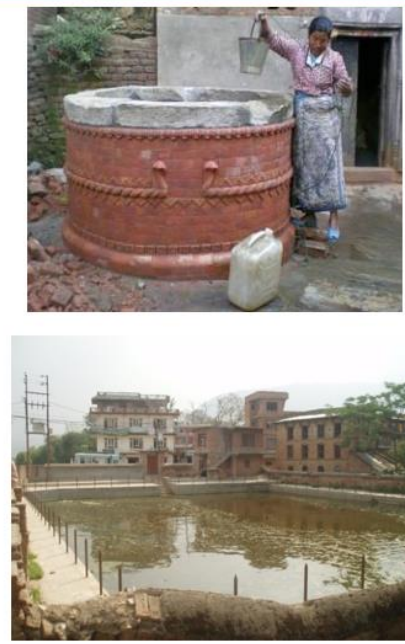
NGO Forum
Urban Water & Sanitation
TPO Purnachandra Marg, Thamel, Kathmandu, Nepal
P.O. Box 20526, Kathmandu, Nepal
Phone No: +977-1- 2470132
Fax: +977-1- 4212184
E-mail: ngoforum@rediffmail.com
URL: www.ngoforum.net

My Journey with UN-Habitat - 2005 to 2010

Integrated Water and Environmental Sanitation Initiatives in Peri-Urban Communities of Kathmandu Valley

Completed in Siddhipur, Khokana Tigni/Thimi, Lubhu, and Narayan Tole
:Total population benefited 20,000

Ongoing project in Tokha : Total Population 10,000



Country Level Support to celebrate IYS programme

- More than 150 professionals have been trained on SLTS/CLST
- Promotional actions for creating an enabling environment
- Media mobilization
- Awareness and advocacy
- Support in development of Master Plan of Hygiene and Sanitation
- Guidelines and necessary resource materials on SLTS/CLTS are under preparation



Arsenic Mitigation Programme 2008/09

- Agreement between UN HABITAT and Nepal Red Cross Society. Collaborating agencies: DWSS and UNICEF;
- Objective: To provide arsenic safe drinking water options at nine arsenic affected districts in Nepal;
- Major Activities:
 - Provision of safe drinking water (Filter distribution, Installation of new tube wells, Improvement of dug wells, Rain water harvesting);
 - Awareness raising programmes;
 - Capacity building training programmes;
 - Finalize "State of Arsenic in Nepal" including arsenic database;
 - Monitoring and Supervision;
 - Dissemination of findings

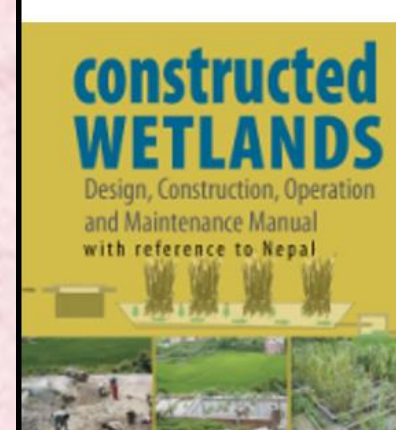


UN HABITAT
FOR A BETTER URBAN FUTURE



Decentralized waste water management

- Demonstration and capacity building of community managed wastewater treatment system
- Demonstration and capacity building of Institutional and community scale biogas system for management of waste and wastewater
- Wastewater Management Plan of Thimi Municipality
- Preparation of a design, operation and maintenance manual as well as training manual



Public Toilet and Urine Utilization



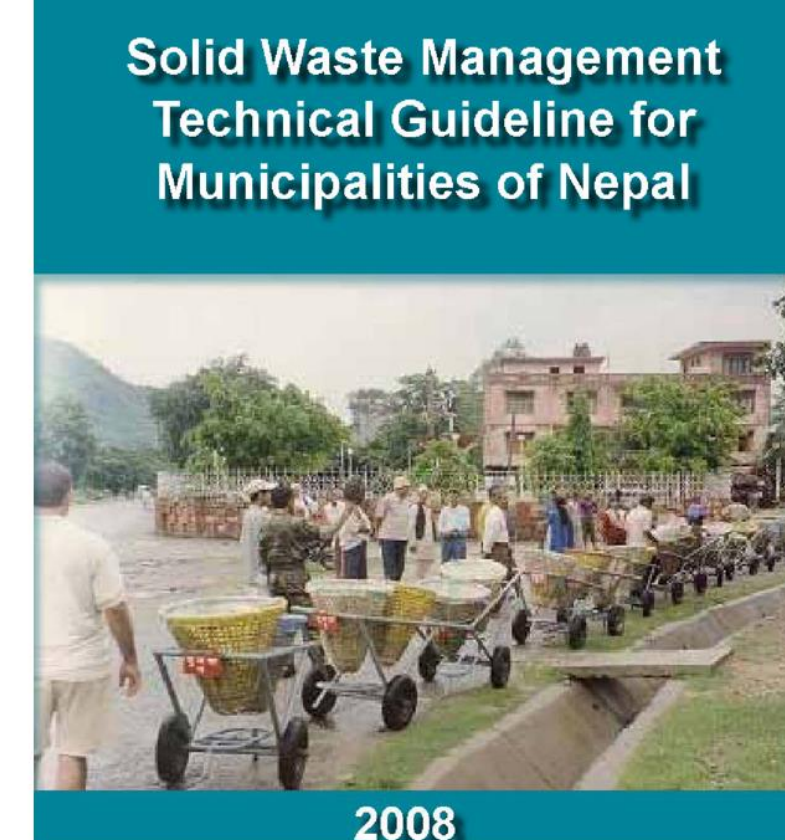
Rainwater Harvesting

- Capacity building of professionals from ministry and its departments, municipalities and civil societies
- Advocacy and massive public sensitization on RWH & its application to meet the urban water scarcity problem
- Addressing at the policy level, institutional strengthening, developing financial mechanisms, conducting research & studies
- Establishment of demonstration sites and
- Establishment of resource center and help desks in municipalities



Policy support on SWM

- Supported Ministry Of Local Development /Solid Waste Management Resource Mobilization Centre (SWMRC) to prepare National Solid Waste Management Technical Guideline for Municipalities of Nepal – approved by SWMRC board for printing and dissemination
- Supported GoN to Draft New Solid Waste Management ACT (under review by ministerial cabinet review committee)



2008

Solid Waste Management and Resource Mobilization Centre (SWMRC)



UN HABITAT
FOR A BETTER URBAN FUTURE

Promotion of Household Water Treatment and Hygiene



Partnership for Safe Water Initiative by promoting household water treatment in partnership with Coca-Cola in Municipalities (Lalitpur, Hetauda, Nepalgunj, Butwal, Bharatpur)

Promotional activities

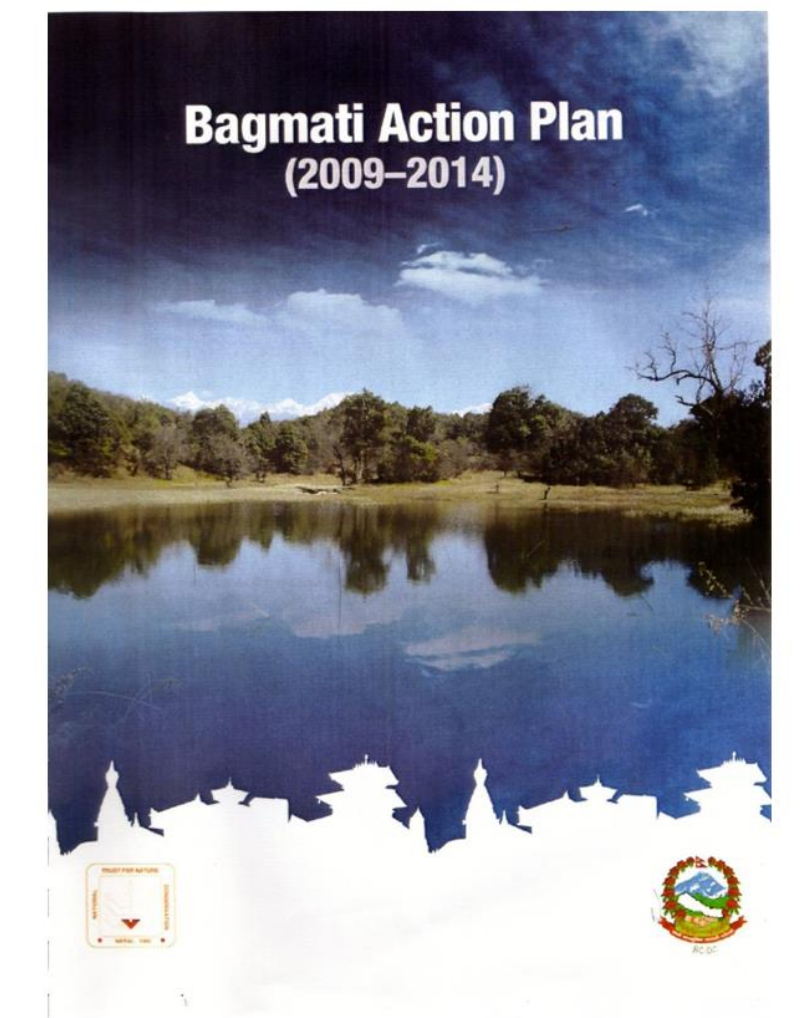
Capacity of local entrepreneurs for production and marketing of treatment product

Establishment of Safe Water Communités



Improvement of the Bagmati River System

- Bagmati Action Plan endorsed by GoN
- Demarcation of Bagmati River System
- A comprehensive urban catchments management strategy developed for Godavari catchments of Bagmati River system.
- Research and study on faecal sludge management
- Plan to implement pilot projects to demonstrate good practises and technologies for large scale replication



UN HABITAT
FOR A BETTER URBAN FUTURE

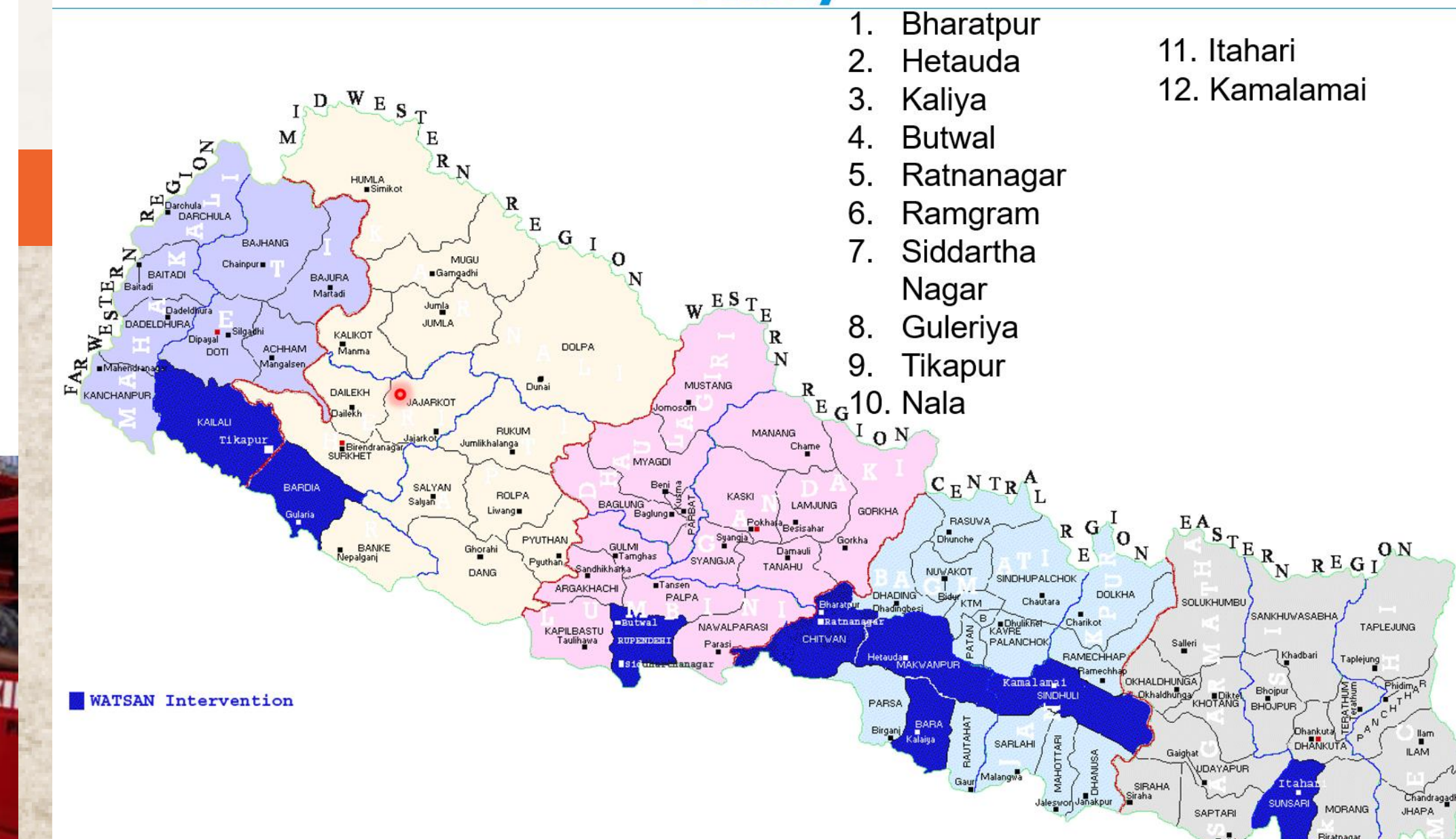
"Paschim Paaila" : Responding to an outbreak of Diarrhea

- A youth led initiative/campaign to response diarrhea epidemic at Mid West;
- Altogether 63 youth volunteers mobilized at four diarrhea/cholera affected districts;
- UN HABITAT's contribution towards the campaign:
 - Provided consultative support during planning;
 - Coordination and sharing with stakeholders;
 - Technical expert provided in-depth training on water treatment, hygiene promotion during epidemic;
 - Technical expert visited several affected districts to mobilize, manage the team of volunteers including coordination with local stakeholders;

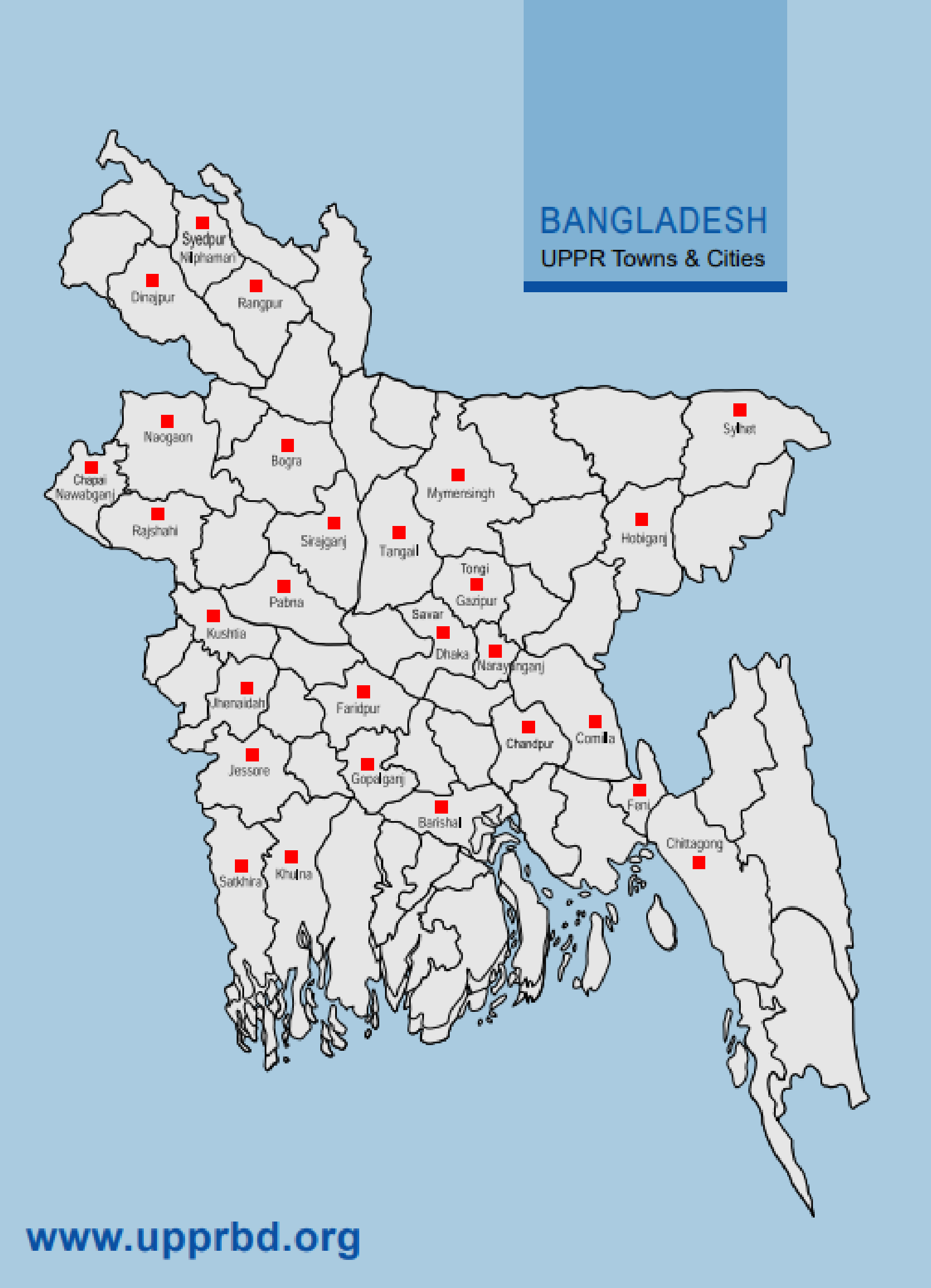


UN HABITAT
FOR A BETTER URBAN FUTURE

WATSAN Intervention outside Kathmandu Valley



My Journey with UNDP/UN-Habitat in Bangladesh 2010 to 2012



My Journey with UNDP/UN-Habitat in Bangladesh 2010 to 2012



My Journey with the Gates Foundation 2012 to date

Bill Gates and Melinda French Gates were raised with the values that lie at the heart of this foundation: giving back and optimism.

Their belief in the power of philanthropy to save lives and transform futures has led the way. As the foundation they built evolves, we remain convinced that with ingenuity, imagination, and determination, progress is possible.

The goal isn't just incremental progress—it's to put the full force of their resources behind big bets that will create a world where everyone has the opportunity to lead a healthy, productive life.



Gates Foundation Role

We work with partners worldwide to tackle critical problems

Creating market incentives for life-saving products by supporting the development and delivery of vaccines, treatments, and tools for those most in need.



Spurring innovation that improves the human condition by stepping in where governments can't, and businesses won't.



Strengthening collaboration by bringing together the public, private and philanthropic sectors to save and transform lives around the world.



Generating high-quality data and evidence that drives progress by showing what's working and what isn't.



At its best, philanthropy
takes risks that
governments can't,
and corporation won't.

—Bill Gates

Global need for safe sanitation

Current solutions alone cannot meet changing environmental, public health, and household needs

Global climate challenges and related **water insecurity** create a vital need for innovative solutions in water and sanitation

The current sanitation & public health crises, worsened by **insufficient infrastructure**, requires sustainable solutions that adjust to changing environmental conditions and **meet the needs** of diverse populations

In a warming world, Cape Town's 'Day Zero' drought won't be an anomaly, Stanford researcher says, Nov.9 2022

[Cape Town's 'Day Zero' drought a sign of things to come | Stanford News](#), Nov. 9, 2020

Salvatore Pascale (spascale@stanford.edu), and Danielle Torrent Tucker (dtucker@stanford.edu) School of Earth, Energy & Environmental Sciences.



Mexico City is just the beginning. Here are 11 other cities at risk of running out of water.

Jenny McGrath, Ellyn Lapointe, and Jessica Orwig Jun 5, 2024, 9:46 AM PDT

Share Save



Residents collecting drinking water from a tanker due to the ongoing water crisis in India. NurPhoto/Getty Images

Home // Local Coverage // Environment

Cape Cod needs to clean up its water. The solutions could cost billions

February 12, 2024

By [Barbara Moran](#)



NEWS

Federal government intervenes in Alabama sewage crisis on civil rights grounds

Updated: May. 04, 2023, 4:39 p.m. | Published: May. 04, 2023, 1:10 p.m.

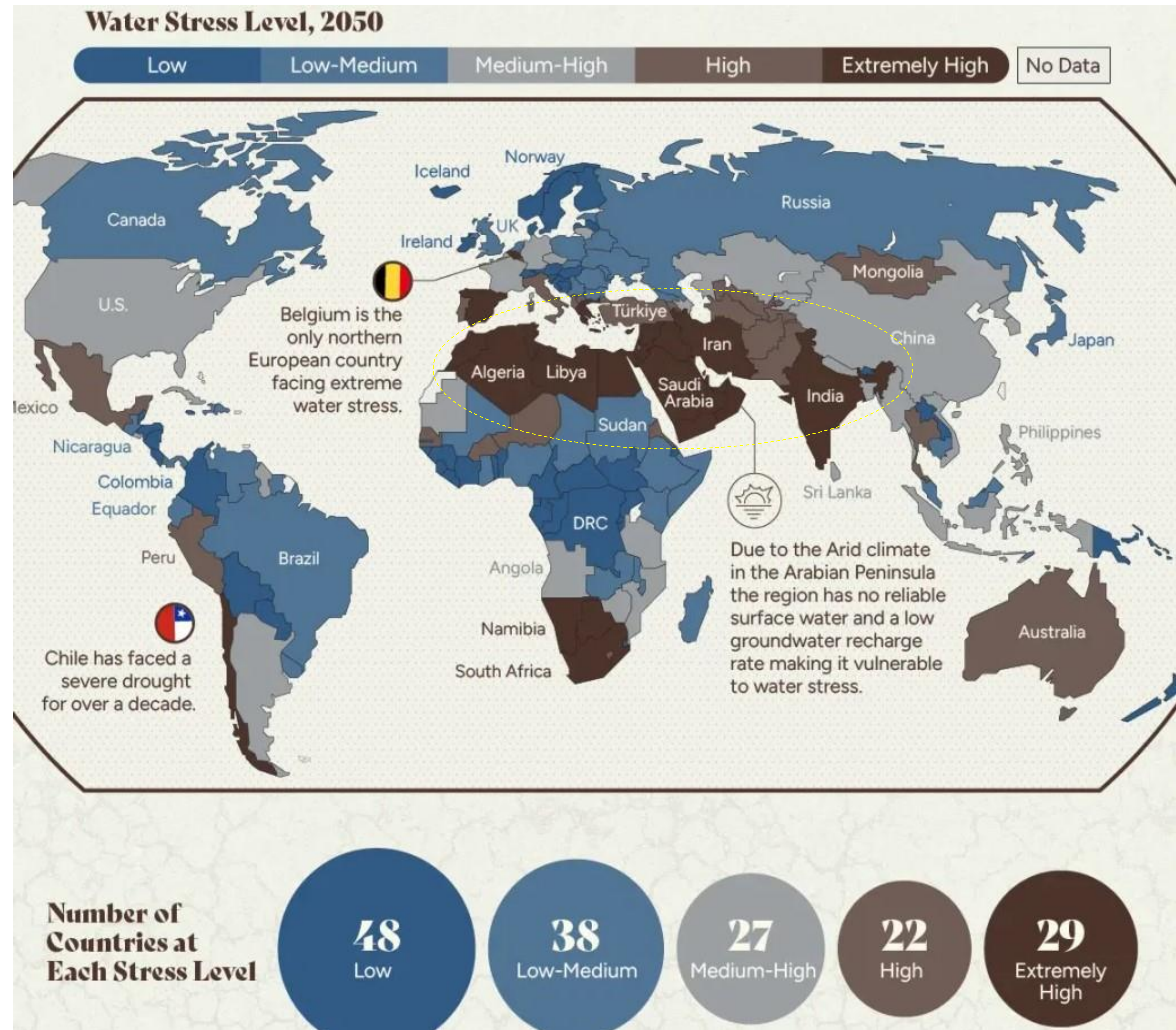
By [Dennis Pillion](#) | dpillion@al.com



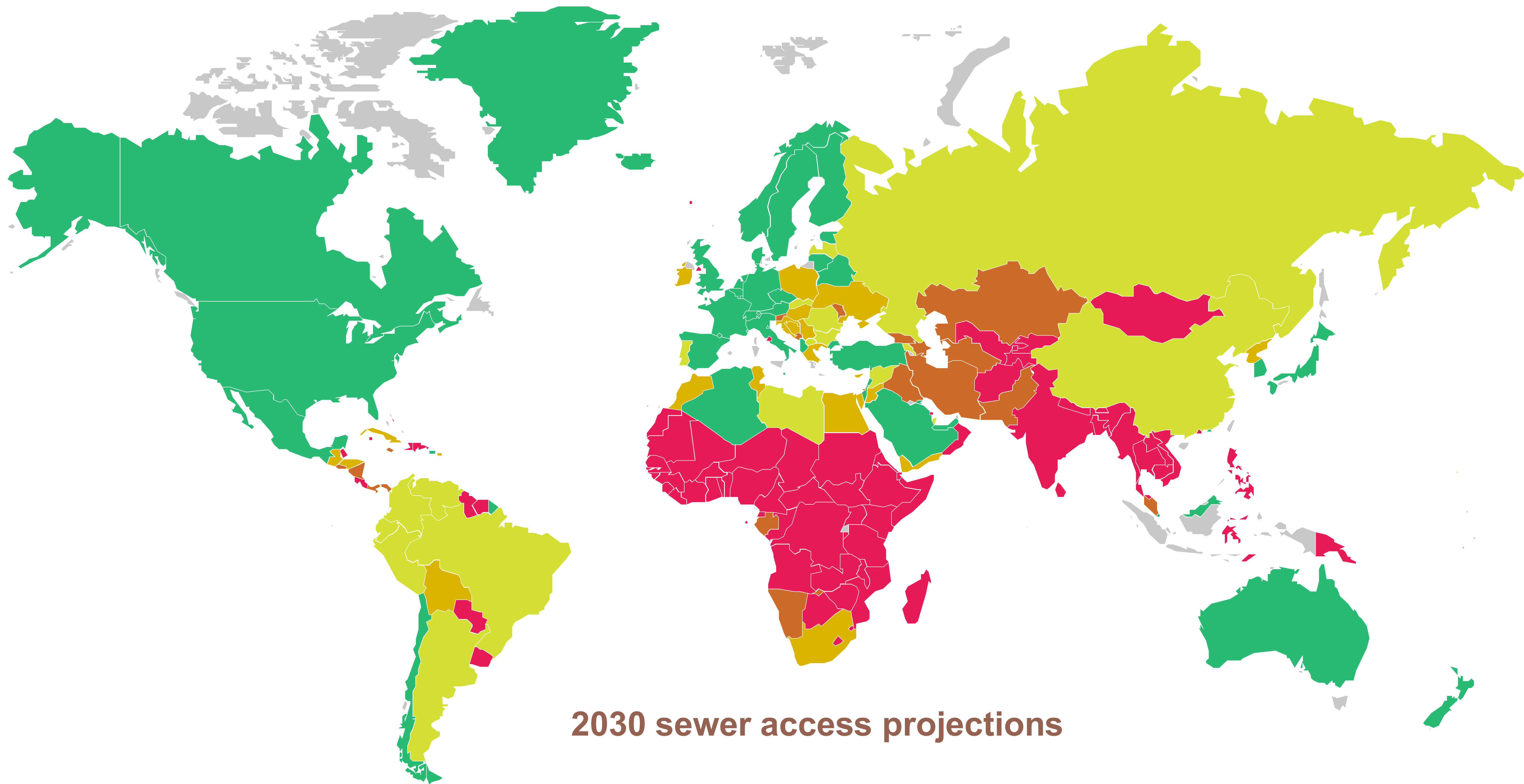
The Future of Water

The water stress is defined by proportion of water needed for use in industry, agriculture or personal use in relation to the amount of water available

Countries on the high end of the stress level will not have sufficient water supply to meet the demands of their population by 2050



SANITATION GLOBAL SCENARIO:
Sewers will reach few in many cities, indicating need for an alternative & innovative & decentralized sanitation solution

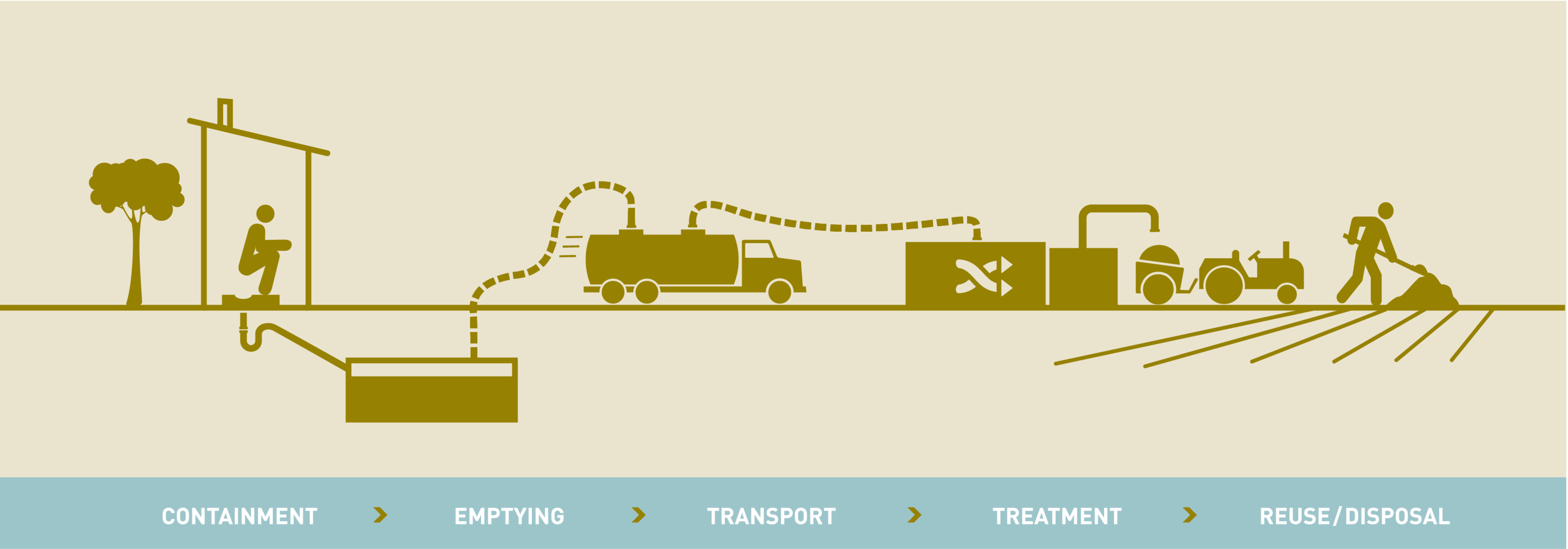


2030 sewer access projections

0%-20% 21%-40% 41%-60% 61%-80% 81%-100%

Note: countries in gray do not have data reported. Source: JMP 2017 Report and 2021 Report; BCG analysis

Sanitation Chain



GATES FOUNDATION HAS PRIORITIZED TRANSFORMATION OF SANITATION FOR OVER A DECADE



BMGF launches the “Reinvent the Toilet” Challenge, awarding grants to 16 researchers to design a new NSS solution



UN Sustainable Development Goals (SDG) are adopted, incl. 6.2 which prioritizes access to safe sanitation for all



Reinvented Toilet Expo, hosted in Beijing, announces RT products and funding commitments to drive adoption of RTs



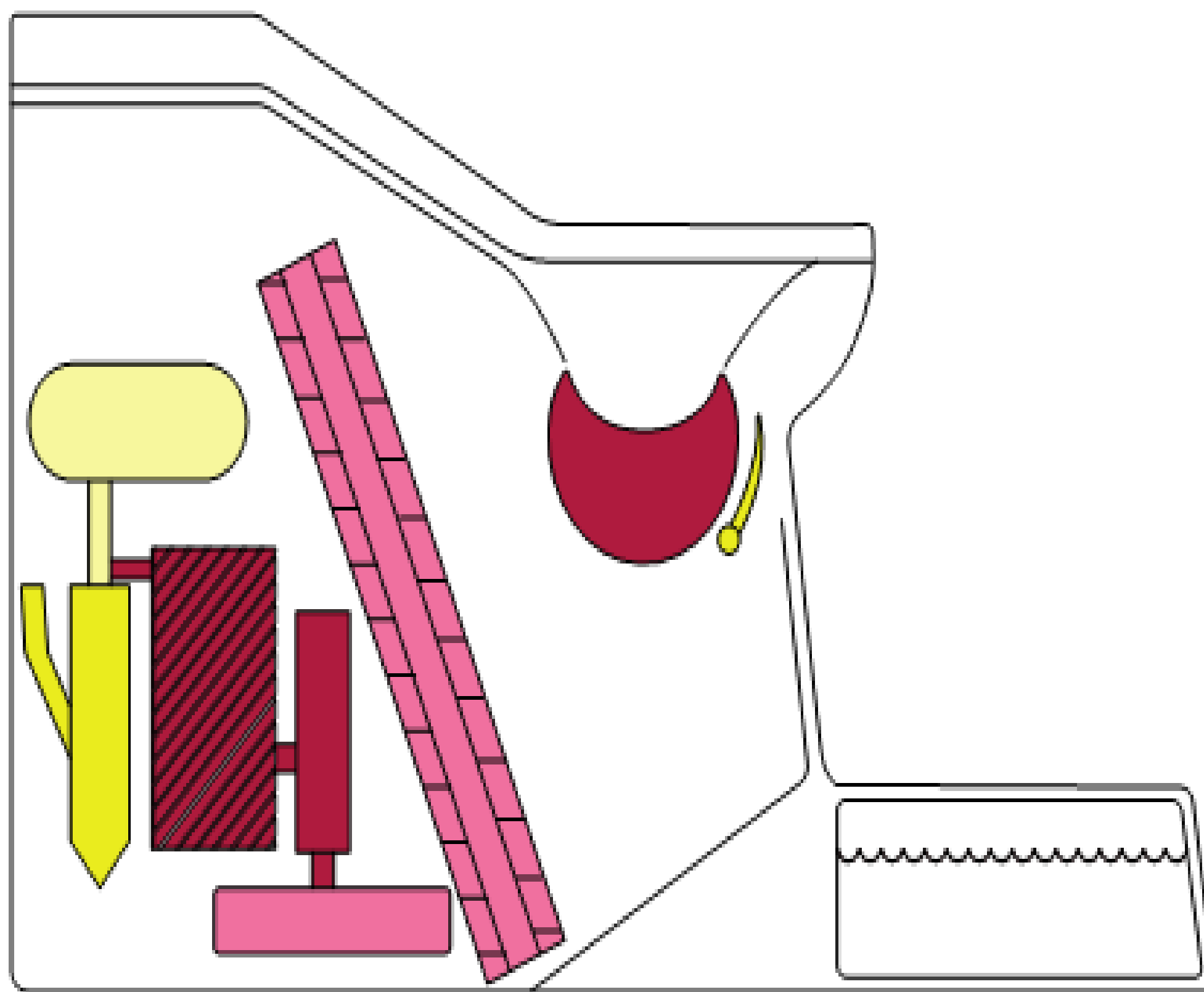
CRT demonstrations live in India, China and South Africa



HRT testing units deployed in India, France, and South Africa



TRANSFORMATIVE TECHNOLOGIES TO ADDRESS LIMITATIONS OF INCUMBENT TECHNOLOGIES



Conserves water

- Flush toilet experience without requiring any water connection
- Flush water is cleaned and reused, reducing household water needs, costs



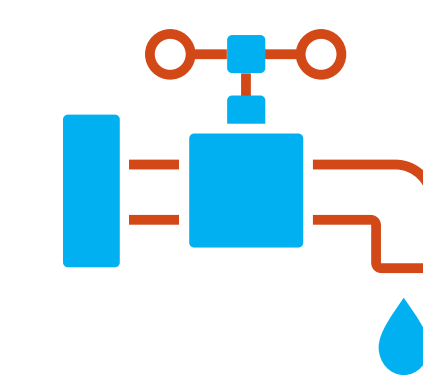
Eliminates pathogens

- Waste is treated on-site, no potential to spread disease
- Improves environmental safety
- All outputs are safe to handle



Operates off grid

- Operate off grid
- Eliminate need for external inputs such as water and energy
- Make portable and easy to install



Aging infrastructure

- Centralized wastewater treatment systems often at/near capacity
- Infrastructure repairs costly and disruptive



Low life-cycle costs

- Reduce need for pit emptying
- Ensure a sustainable business model, including maintenance via service providers



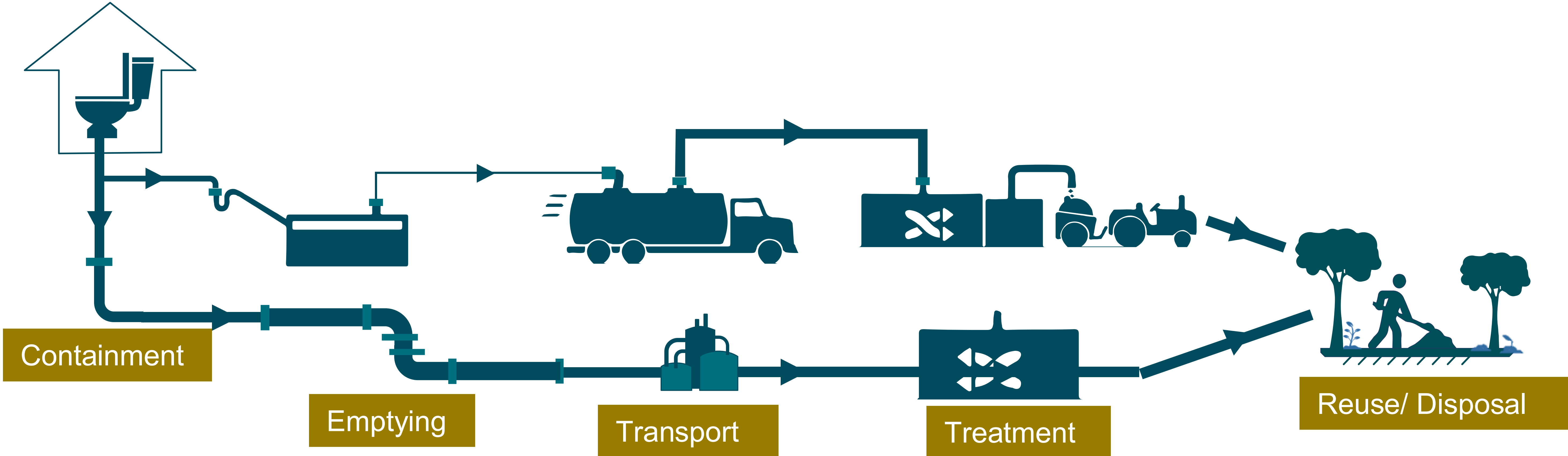
Growing population with urbanization

- Population growth frequently outpacing infrastructure growth
- 68% of global population projected to be urban in 2050

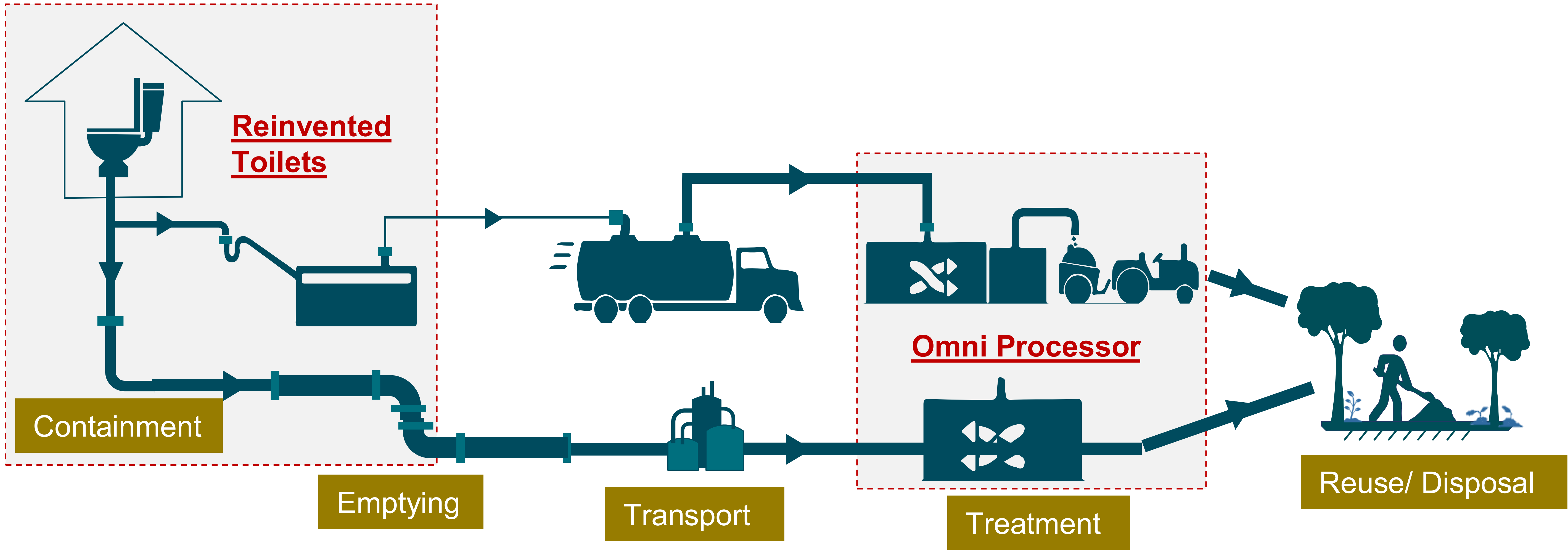


CONVENTIONAL SANITATION VALUE CHAIN vs TRANSFORMATIVE TECHNOLOGIES

Conventional Sanitation



Transformative Technologies







Ambition 2019-2030:

10,000⁺

sanitation professionals educated by

100⁺ academic institutions.

- Expansion partners
- Active partners

BILL & MELINDA
GATES foundation

FSMA



unicef



UTEC

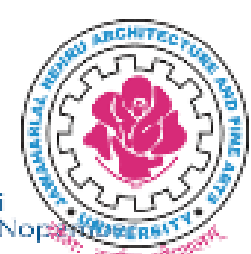
TU Delft

eawag
aquatic research

香港科技大学
THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY



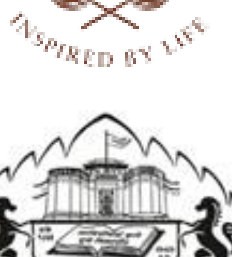
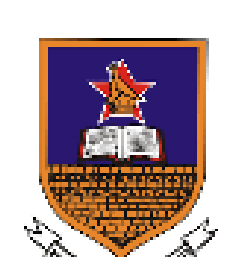
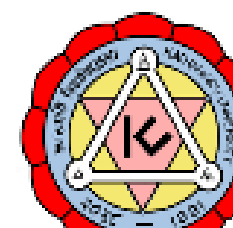
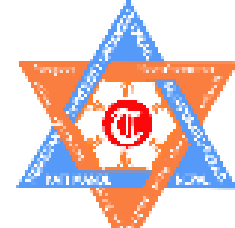
CEPT
UNIVERSITY



U-MAN
Université du Man



University of
Eldoret







GLOBAL WATER & SANITATION CENTER

VISION

To be a *center of excellence* in transforming **water and sanitation systems** through **innovation, capacity building, and collaborative partnerships**, ensuring universal access to **safe, inclusive, and sustainable WASH** services for all in Asia & beyond.

MISSION

Innovate & Advance Knowledge

Drive research and innovation to develop effective and sustainable WASH solutions tailored to the unique challenges of Asia and beyond.

Build Capacity & Empower Communities

Offer training and educational programs to strengthen local capacity and empower communities in implementing resilient and inclusive WASH practices.

Influence Policy & Advocate for Change

Collaborate with stakeholders to shape evidence-based policies and advocate for equitable & sustainable WASH access for all

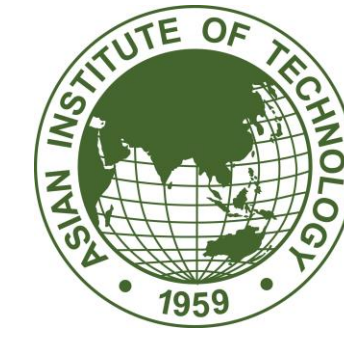
Foster Partnerships & Collaboration

Establish strategic partnerships across sectors to enhance the impact and scalability of WASH initiatives in the region

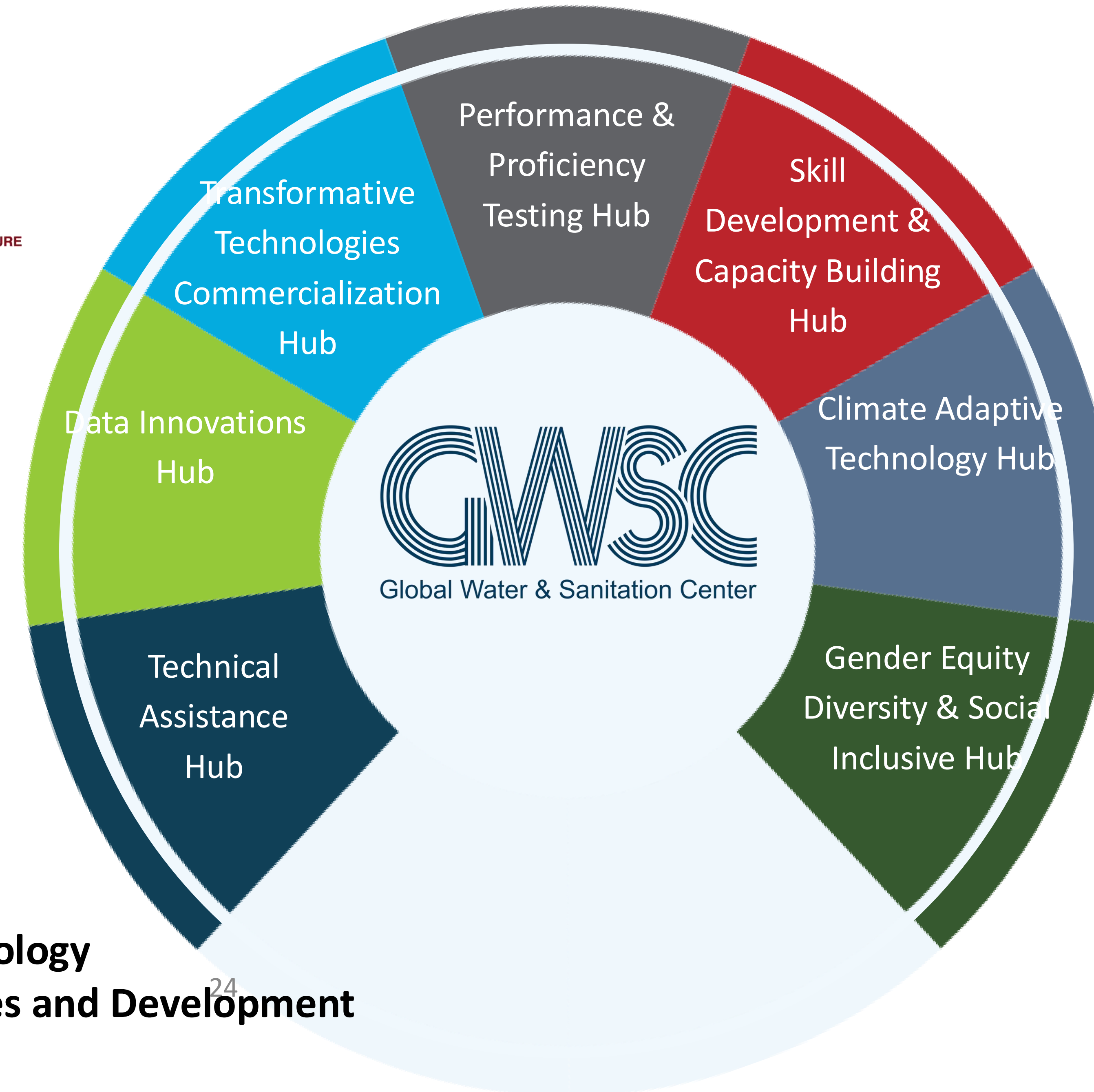


A photograph of the exterior of a building with a red-tiled roof. In the foreground, there is a large white sign with a stone base. The sign features the GNBC logo and the text "GNBC" in large, bold letters. Below the logo, it says "Ghana National Broadcasting Corporation". The building has large windows and a red-tiled roof. The sky is blue with some clouds, and there are green trees in the background.

The image displays a collection of logos for international financial institutions. The logos are arranged in two rows. The top row includes the ADB (Asian Development Bank) logo, the AFD (Agence Française de Développement) logo, the AIIB (Asian Infrastructure Investment Bank) logo, and the Asian Infrastructure Investment Bank logo. The bottom row includes the IsDB (Islamic Development Bank) logo, the JUDCO (Jamaica Urban Development Corporation) logo, and the The World Bank logo.



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



ADB Institute

AIBL
AI BRAIN LAB

ATHENA
INFONOMICS

ascii
Leadership through Learning

a2i
innovate for all

BORDA

CDDIndia
Water | People | Nature

CWAS
CRDF
CENTER FOR WATER AND SANITATION
CEPT UNIVERSITY

data

egov.
FOUNDATION

ENPHO
Creating Eco Societies

EY
Building a better working world

GRET

INNOVATIVE
SOLUTION PVT. LTD.

incSQUARE

impact
SOLUTIONS

ITN-BUET
Centre for Water Supply and Waste Management

niua
National Institute of Urban Affairs

saniverse
environmental solutions

solidarités
international

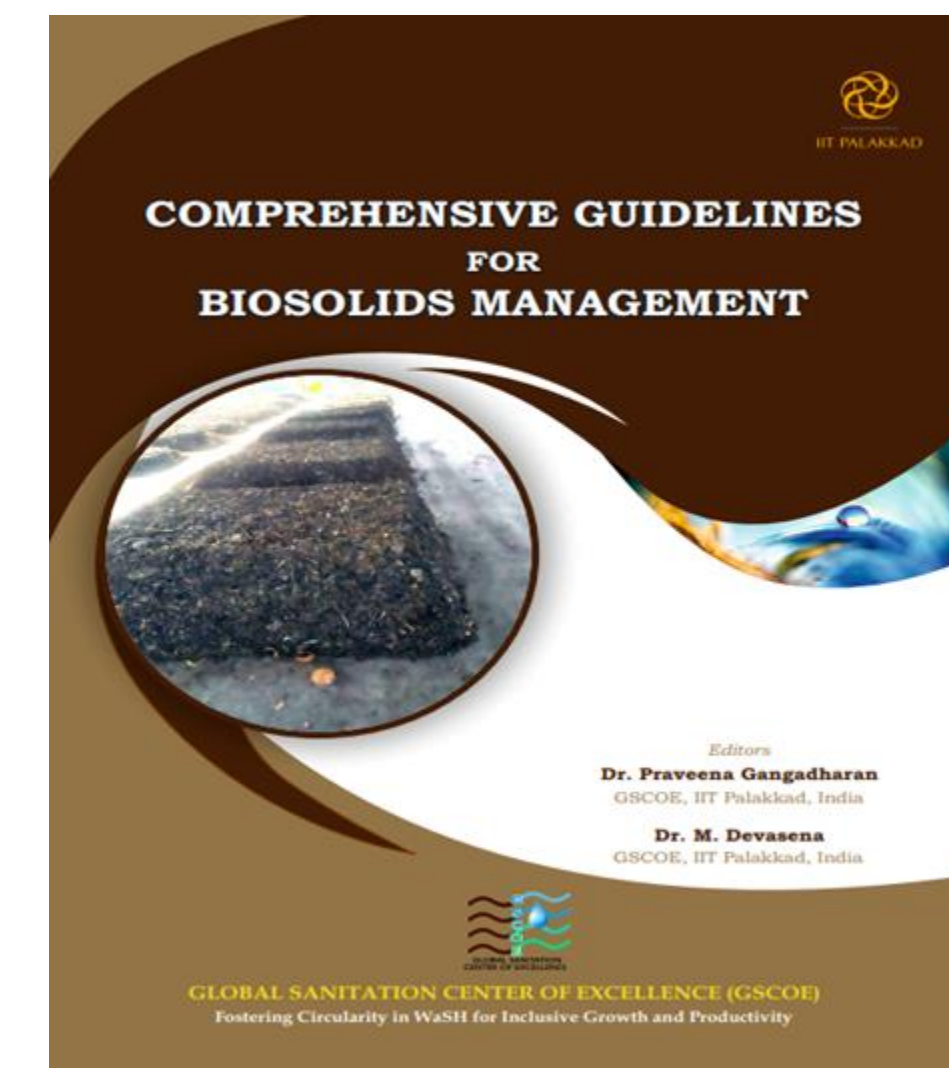
WASH Institute
Water Sanitation and Hygiene Institute

WSUP | Water & Sanitation
for the Urban Poor



INDIAN INSTITUTE
OF TECHNOLOGY
PALAKKAD

IIT PALAKKAD: GLOBAL SANITATION CENTRE OF EXCELLENCE



Policy and Guidelines

- Biosolids Standards
- ISO 30500 & 31800 Standards
- Lab Alliance

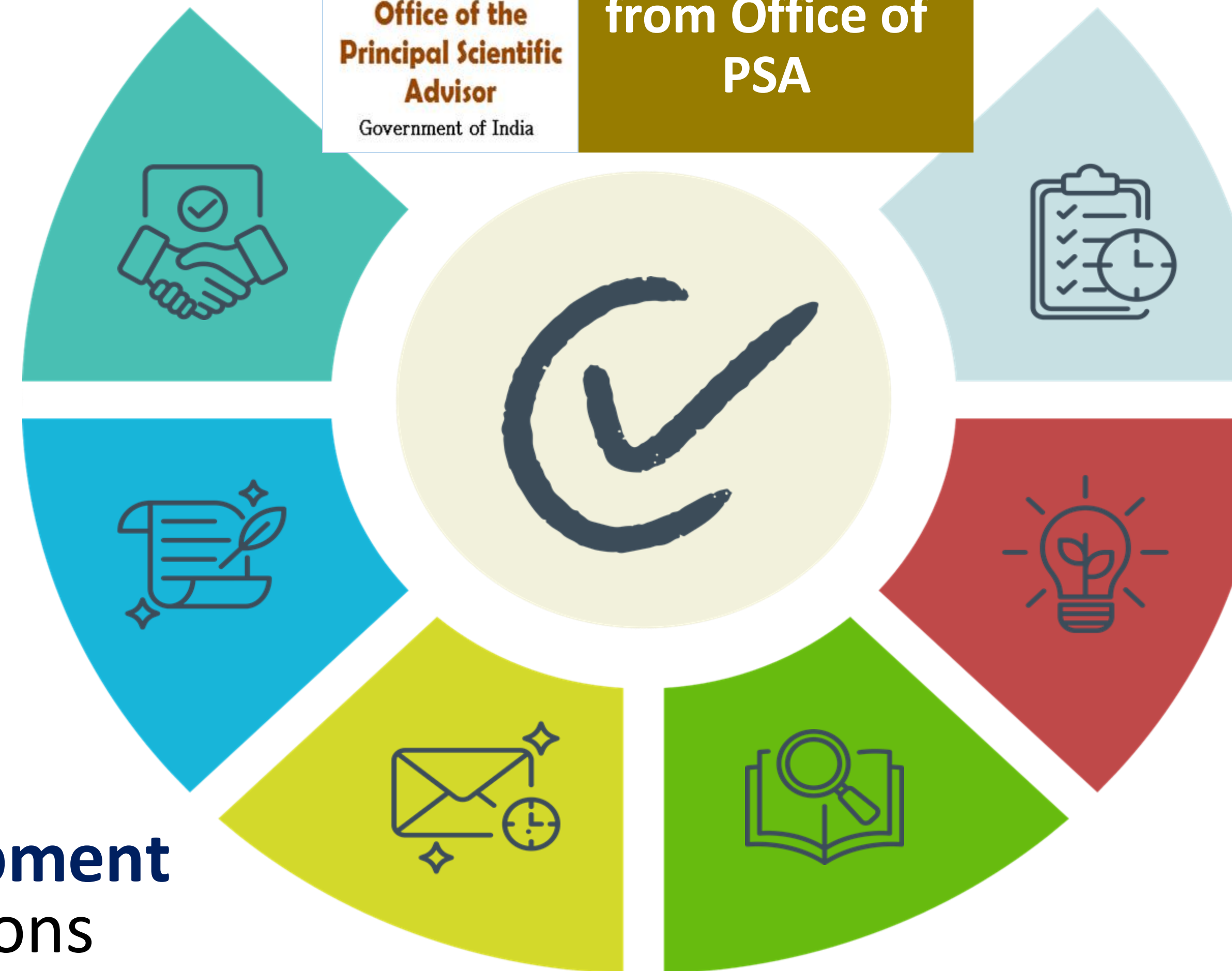


Research & Development

- In-house research proposals, Publications
- Streamlined areas of research



Support &
Mentoring
from Office of
PSA



Driving Standards : ISO 30500, ISO 31800

- Provide rigorous and real-world testing in for technology performance
- Evaluating the collected data against the defined KPIs to assess the performance of NSS technologies
- Work with regulatory bodies to secure approvals for the field-testing and certification platform
- Making necessary improvements to the technologies based on the evaluation findings

EFT and Certification

- Infrastructure for NSS Solutions & Certifications
- Laboratory and Research Policy
- Assess and certify NSS sanitation technology



State of the art laboratories facility to test and assess the performance of NSS technologies



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



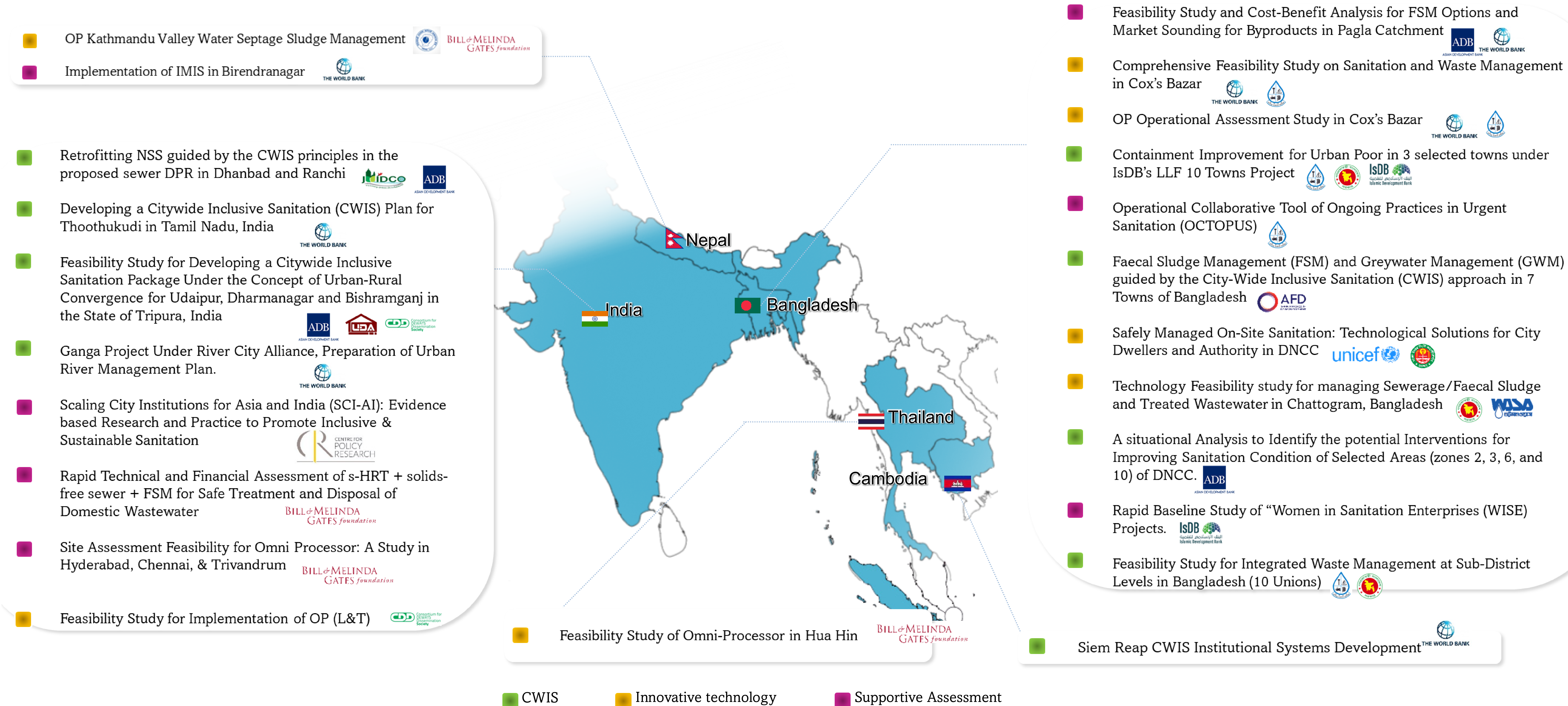
AIIB funded Bangladesh City Inclusive Sanitation Program in 25 Towns



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



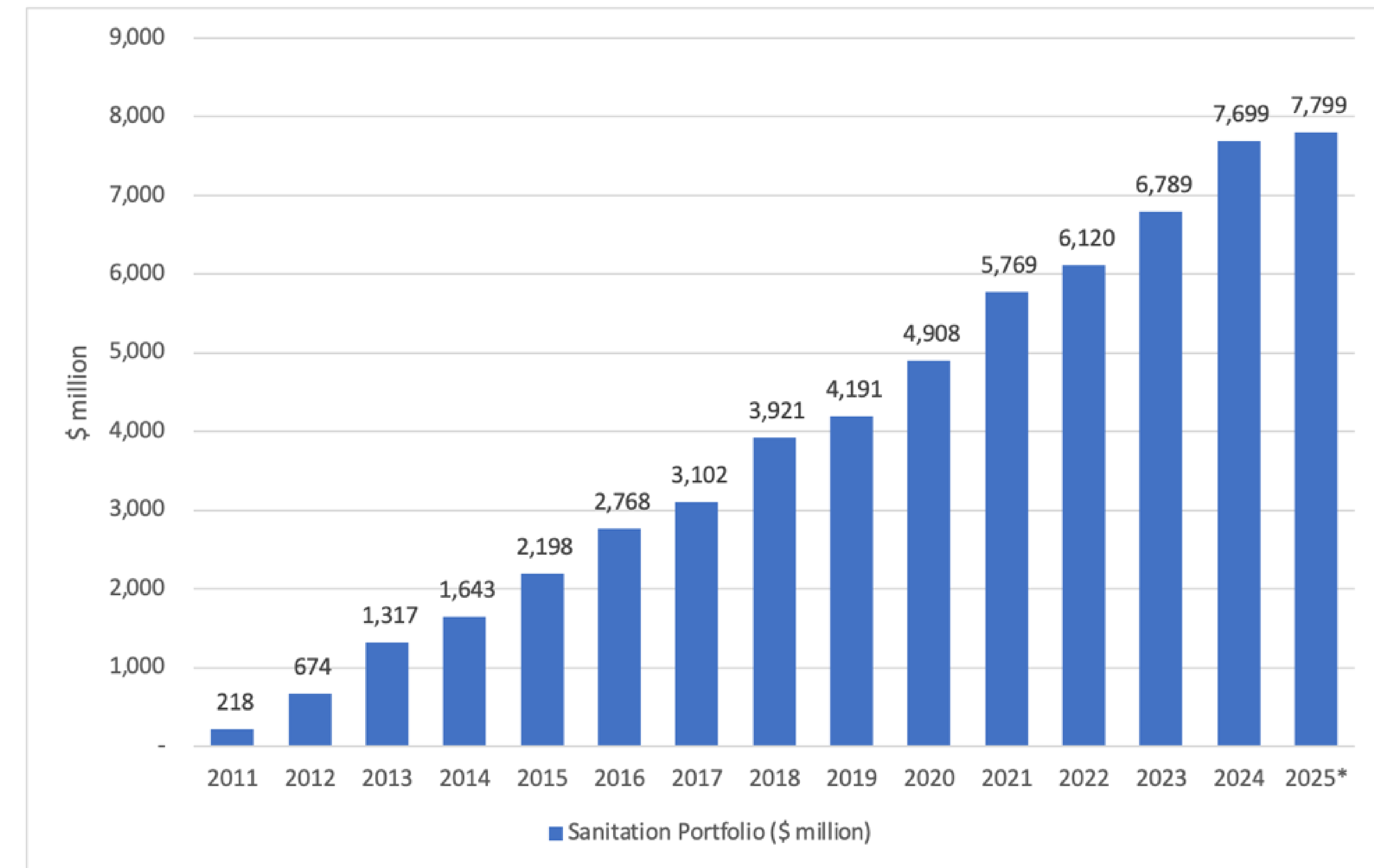
TA Hub Projects



ADB INVESTMENT FOR SANITATION



Total Sanitation Portfolio, 2011–2025



*as of 30 June 2025

- Sanitation investments **totaling \$3 billion** incorporate the principles of CWIS.
- **\$718 million** in investments in non-sewered sanitation and FSM.
- **22.3 million beneficiaries from sanitation projects** developed through the CWIS strategy, of which 10% of the new beneficiaries belong to the economically disadvantaged population.

BMGF TEAM & PARTNERS IN SOUTH/SOUTHEAST ASIA (2021 TO 2023)

CORE TEAM



ROSHAN SHRESTHA

Deputy Director, India & Asia Region



SAKSHI GUDWANI

Senior Program Officer, India Capacity Building & State Support



VENKAT MUKUNDARAJAN

Senior Program Officer, Industry Development



DANIELLE PEDI

Deputy Director, CWIS Initiative Team



ERIC MOMANYI

Policy Advocacy & Comms for WSH
Senior Program Officer, East Africa Lead

ILLUSTRATIVE GRANTEES & PARTNERS

GLOBAL, REGIONAL & NATIONAL PLATFORMS

Center of Excellence and Global Sanitation Alliance



Civil Society



Municipalities



COUNTRY & CITY PARTNERS



UN AGENCIES



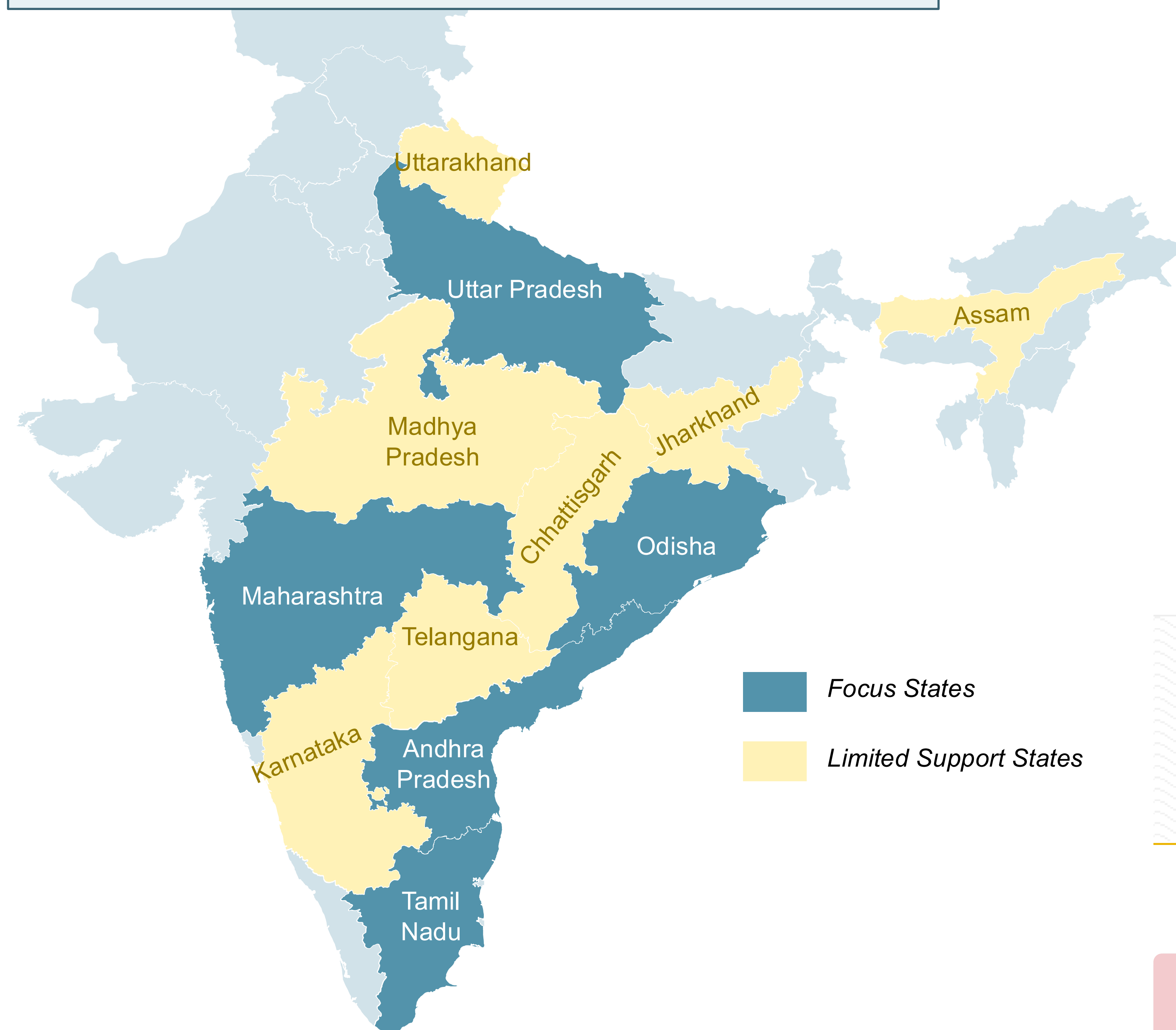
OTHER DEVELOPMENT BANKS & PARTNERS



CAPACITY & TA



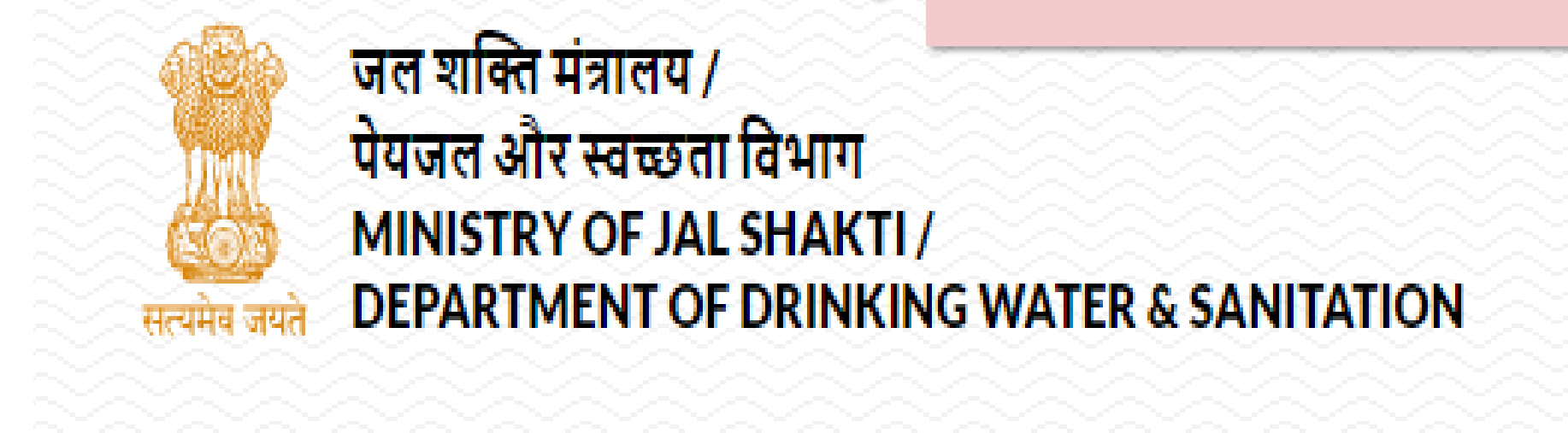
Our partnership extends with multiple states across the country through intensive technical support units in 5 states and additional lean support in 7 states



Partnerships with central ministries and departments



Program Management Unit supports SBM Urban at MoHUA



Lean support to DDWS on SBM Rural

Center of Excellence being set up with Hon' Principal Scientific Advisor of India

Successes in India driven by national and state governments



National Policy on FSM was issued by Ministry of Urban Development in February 2017 and has been adopted by 20 states in India

SBM 2.0 launched in October 2021 – prioritizing treatment of wastewater and fecal sludge beyond access to toilets



Over 350 Fecal Sludge Treatment Plants (FSTPs) Operational in cities and towns of India

National and select state governments focusing on safety and welfare of sanitation workers



BANGLADESH, AN EXEMPLAR OF ECOSYSTEM & SYSTEMS-BASED APPROACH



JOURNEY OF SCALING CWIS IN BANGLADESH

PHASE 0 PREPARATORY PHASE

Preparing ground for strategic investments

- Government begins to shift focus from achieving Open Defecation Free status to safely managed sanitation/ FSM solutions

2013

PHASE 1 DEMONSTRATION PHASE

Policy, Institutional, Regulatory

- Integration of FSM in National Strategy for Water & Sanitation
- Preparation of Institutional & Regulatory Framework (IRF)
- FSM Network established for policy advocacy & awareness

Resources & Capacity

- Cities Partnership with DFID and ADB
- Capacity building of relevant stakeholders

Pro-poor, sustainable FSM services

- FSM solutions established in Khulna, Faridpur, Jenaidah, and Khustia
- 4 large-scale FSTPs established

2014

PHASE 11 REINFORCEMENT PHASE

Policy, Institutional, Regulatory

- Approved IRF and associated National Action Plan
- BMGF MoU with Dept. of Public Health Engineering for implementation of National Action Plan CWIS/FSM components
- National Data Dashboard initiated for MLE

Resources & Capacity

- IFIs (WB, AIIB, ADB, IsDB) confirmed \$1.4B for sanitation
- Establishment of TA Hub to mainstream CWIS in projects of IFIs and Gov't
- Capacity Building Hub established to enhance knowledge & skills at public and private sectors
- Development of IMIS system

Pro-poor, sustainable FSM services

- CWIS project underway in Khulna; replication initiated in 11 cities
- 11 FSTPs established and 117 units are in planning for implementation
- Humanitarian, disaster-response based sanitation planning & implementation in Rohingya camps, J-OP procured by the Gov't

2016

2017

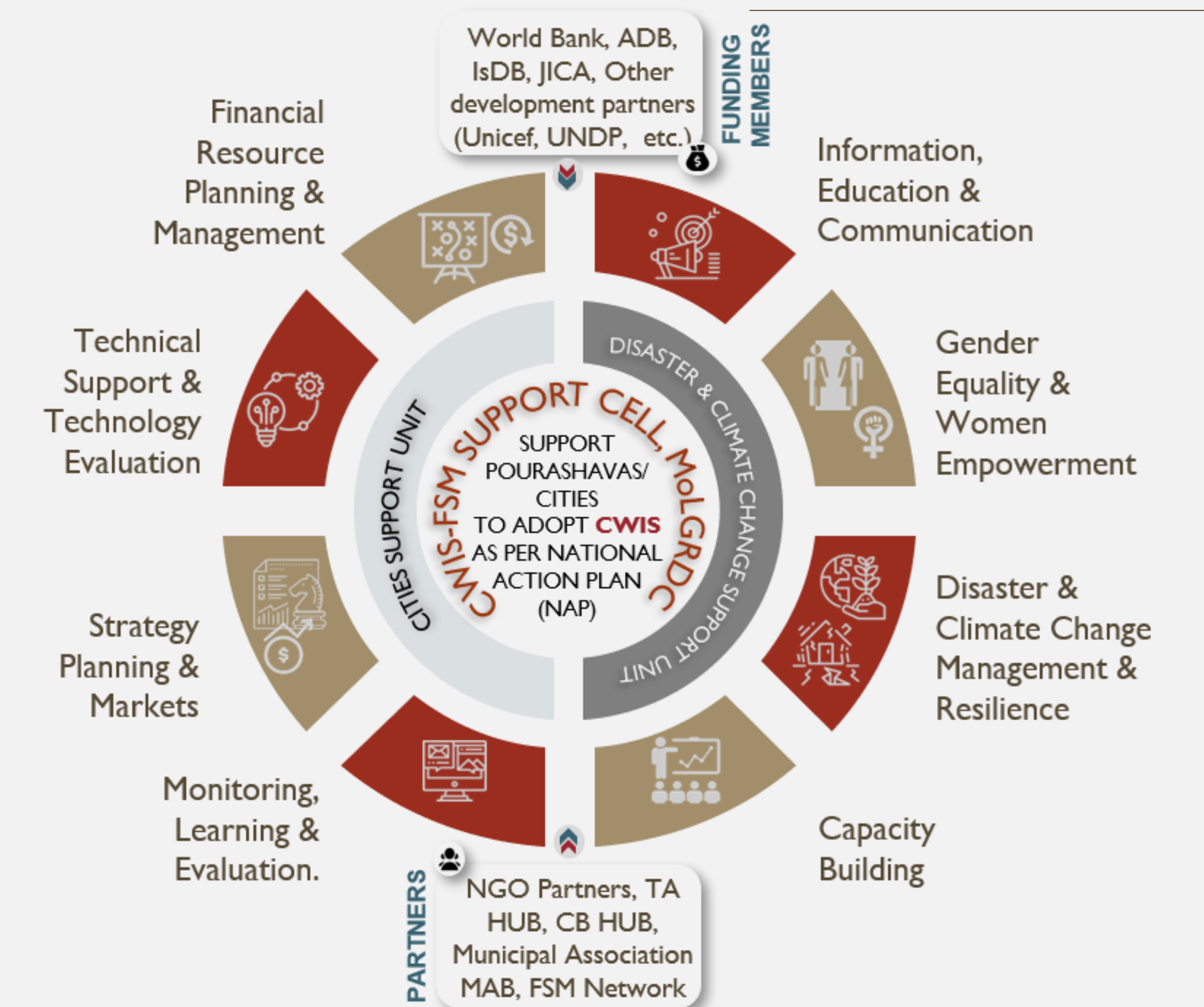
2019

2020

2025

PHASE I11 SCALING PHASE

ILLUSTRATIVE CWIS CELL



CWIS FSM Support Cell Established in Ministry of Local Government. In collaboration with other hubs plans the following outcomes:

- Government** and IFIs integrate CWIS Principles in all sanitation projects; at least 75 cities are in CWIS replication mode
- At least **50 FSTPs in operation** with sustainable service
- City** and national level IMIS/M&E systems with KPIs established
- Ecosystem** established to introduce innovative sanitation technologies including RT and OPs
- Sector** coordination mechanism established to ensure effective efforts of all stakeholders, with special focus on emergency & climate change

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

500B solutions



USAID Karnali Water Activity



27th December 2021

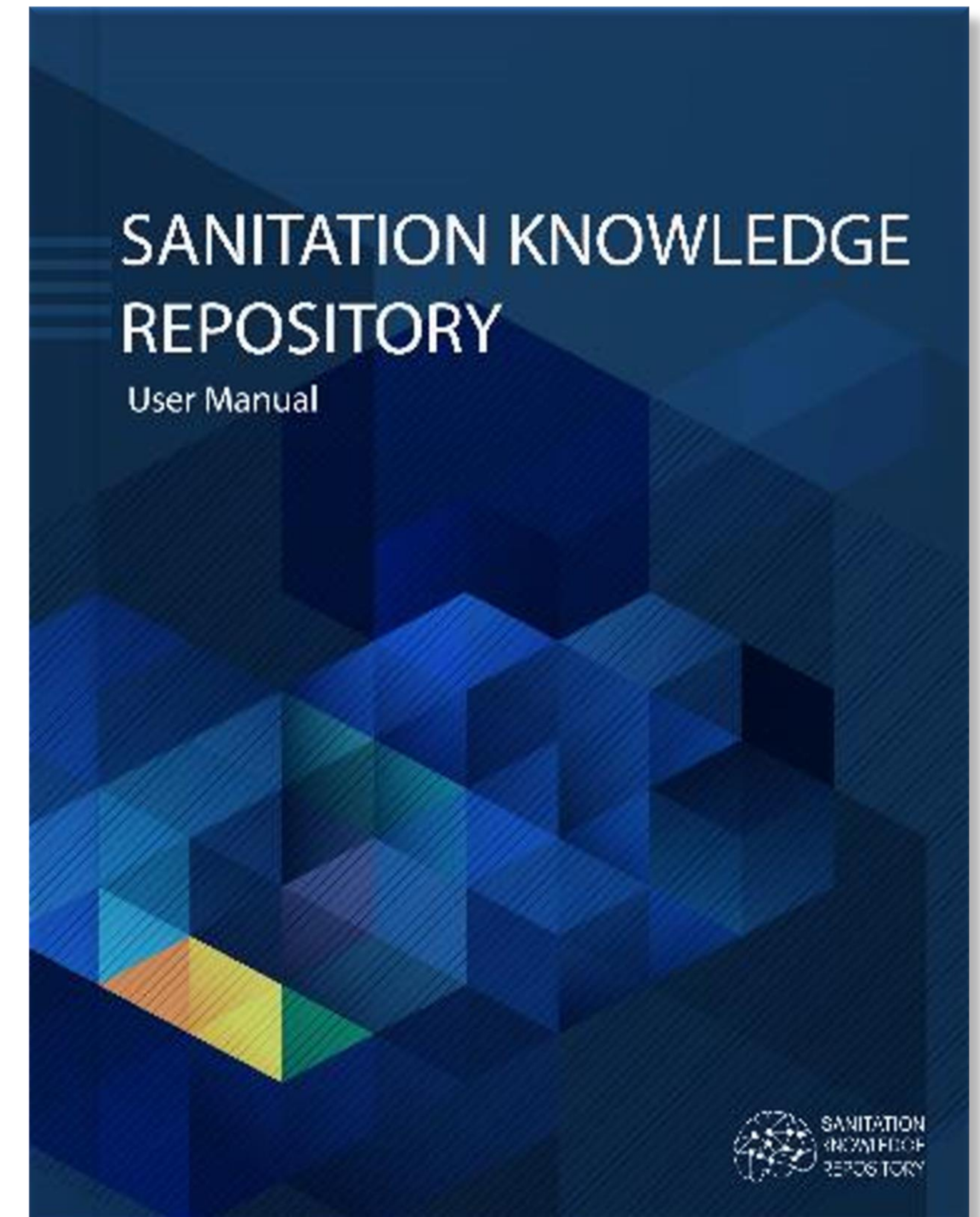
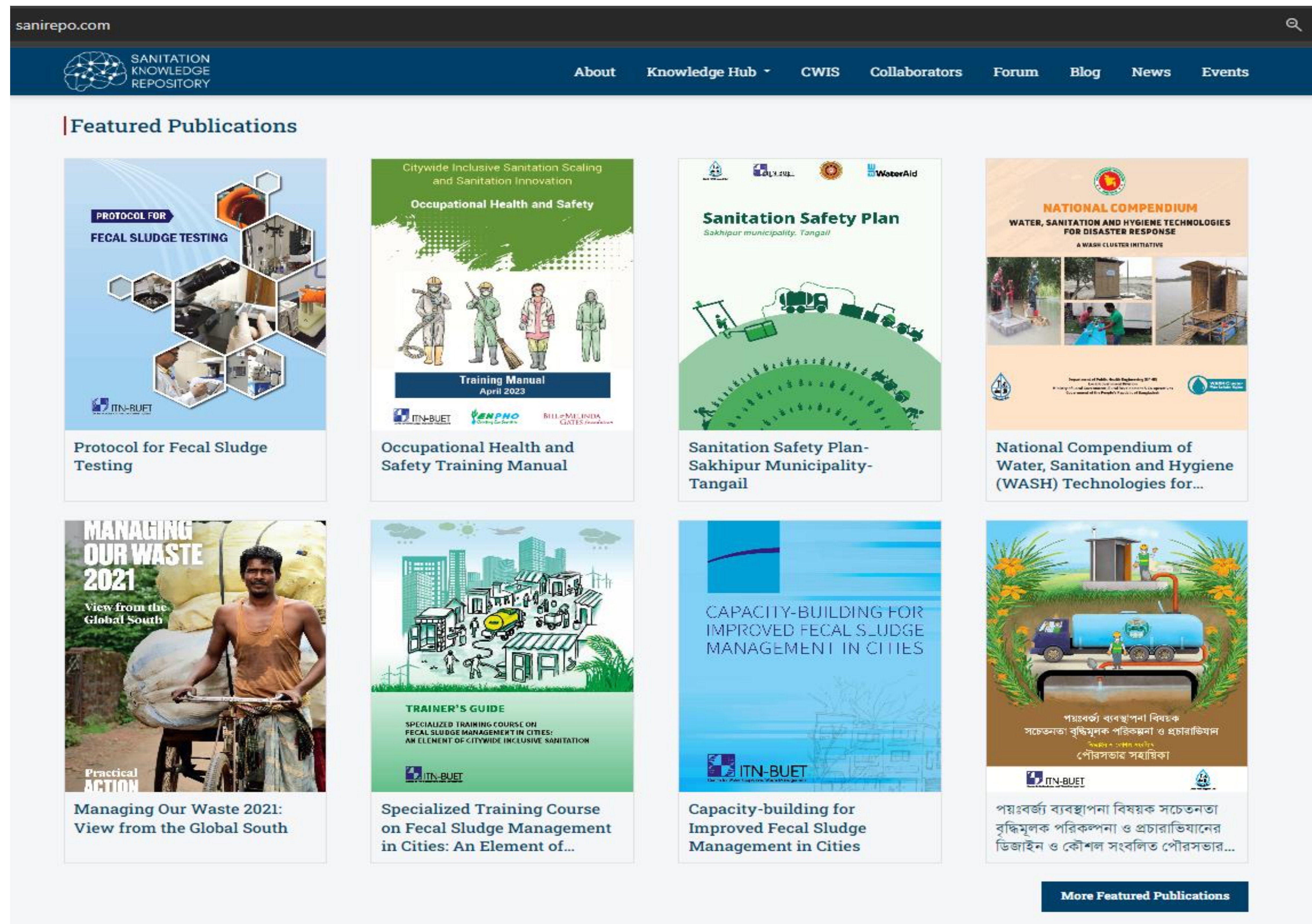
National & Regional Capacity Building Hub



CAPACITATE GOVERNMENT, AGENCY AND
CITY OFFICIALS



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ONE PERSON CAN TAKE ACTION TO CHANGE THE WORLD



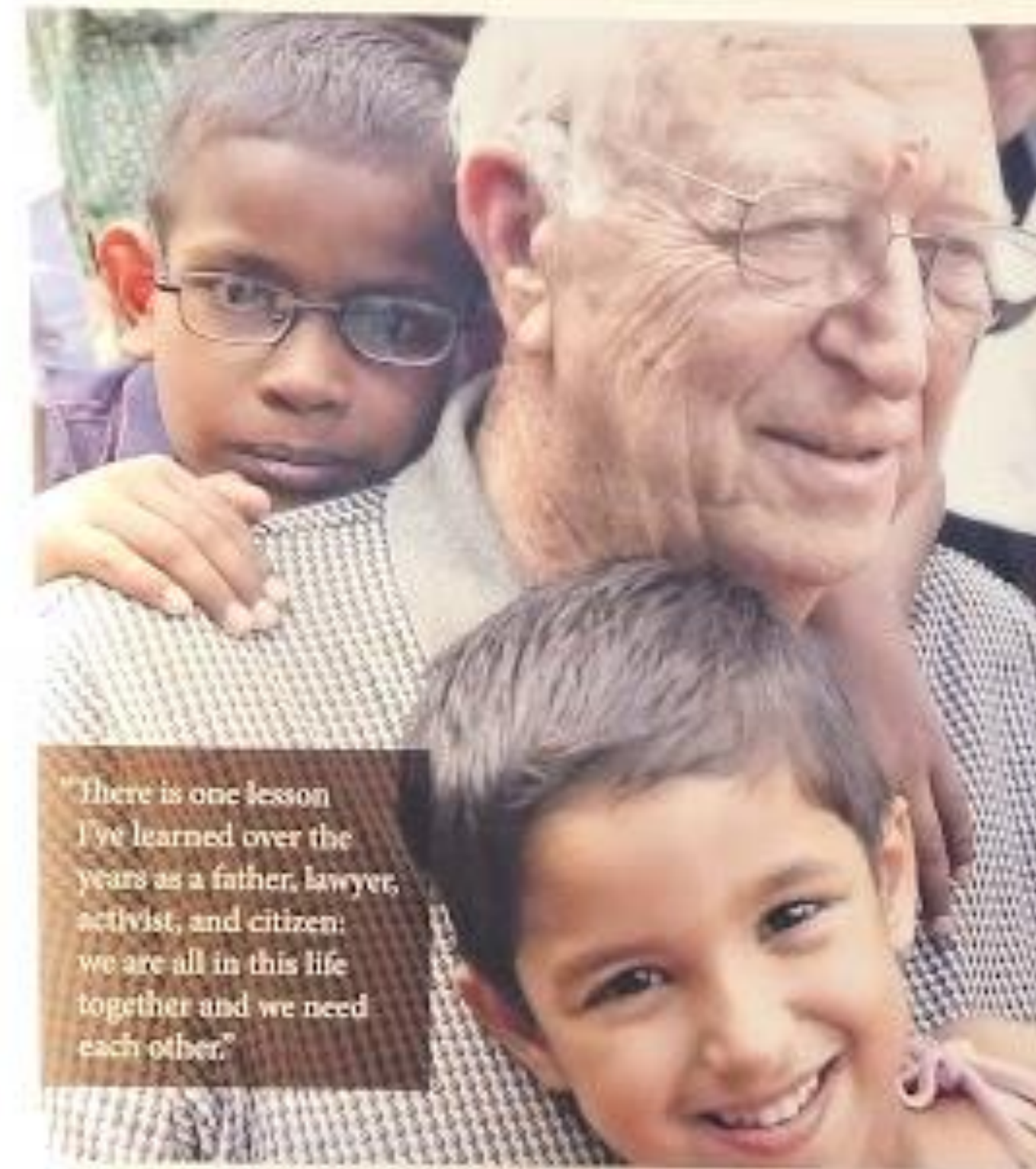
Bill Gates Sr.

Co-chair of the Gates Foundation
Seattle, Washington
1925 - 2020

“

I believe the actions of one person
can make a meaningful, lasting difference
in the lives of others.

”



"There is one lesson
I've learned over the
years as a father, lawyer,
activist, and citizen:
we are all in this life
together and we need
each other."

“

I grew up in the small town of
Bremerton, Washington. It was
there that I learned to 'show up'
in life. It was my mother who
taught me that lesson.

”



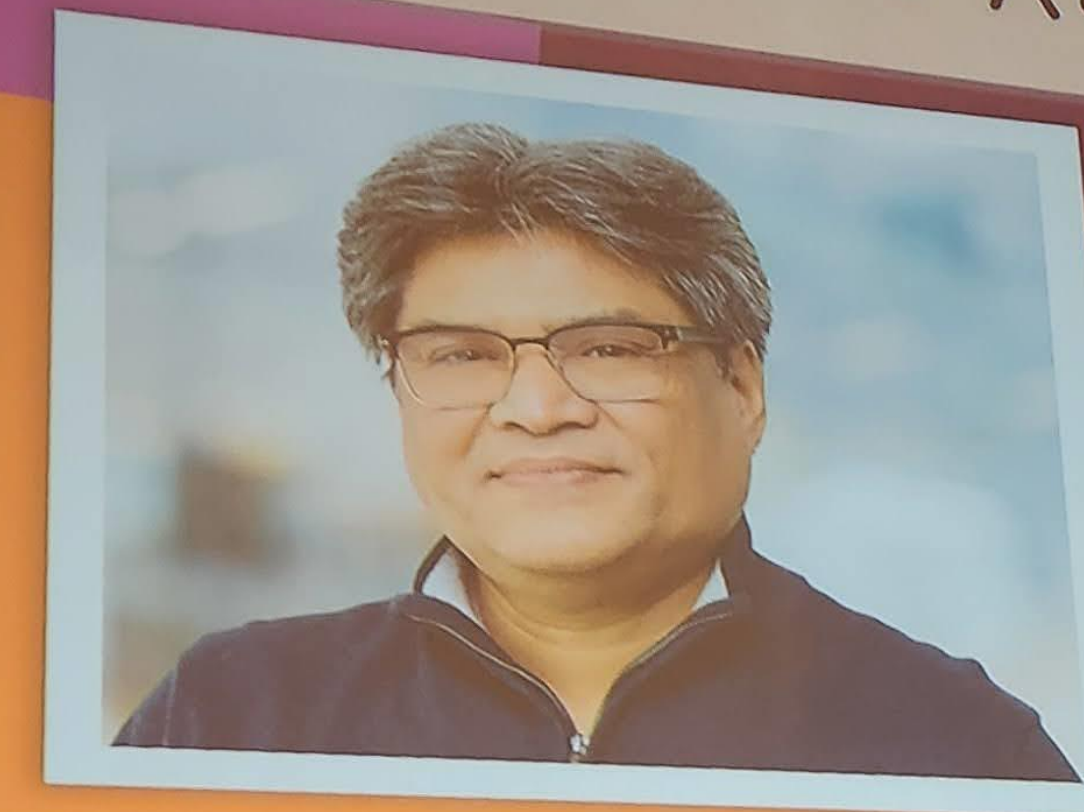
“

To me, global poverty is a humanitarian issue.
People are dying, and we can save them,
and that ought to be enough.

”



2023 Award Recipient



Roshan Shrestha

Deputy Director
Water, Sanitation,
and Hygiene



If you want to go fast,
go alone.

If you want to go far,
go together.

—African Proverb