

# SANITATION SYSTEMS CHANGE: WHY WE NEED A RADICAL RETHINK TO ACHIEVE SDG 6.2

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## WHAT WE DO

The foundation has four missions that help us achieve our vision of a world where every person has the opportunity to live a healthy, productive life:



Ensure more children and young people survive and thrive



Empower the poorest, especially women and girls, to transform their lives



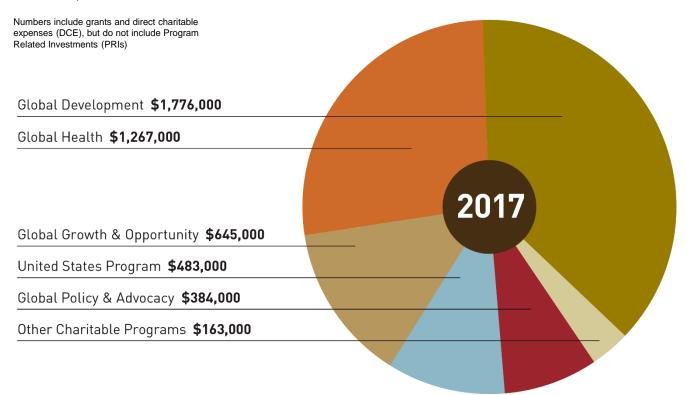
Combat infectious
diseases that particularly
affect the poorest



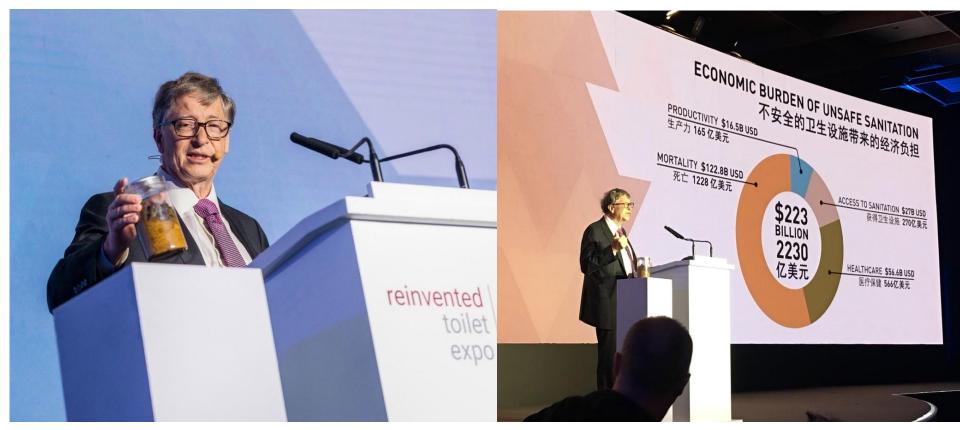
Inspire people to take action to change the world

## FOUNDATION FUNDING SUMMARY

#### In 2017, the foundation invested US \$4.7 billion in these areas



# WHY BILL GATES IS CARRYING A JAR OF POO?



## THE CHALLENGE



4.1B people globally lack access to safely managed sanitation

- At least 53% of people in urban areas, do not use toilets which provide full sanitation services
- 14% do not have access to even basic sanitation services

# 2017 JMP REPOF

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# COUNTRY, AREA **OR TERRITORY**

SDG REGIONS

Asia

Eastern and South-Eastern Asia

Australia and New Zealand

Central and Southern

Europe and Northern America

Latin America and the Caribbean

Northern Africa and Western Asia

Sub-Saharan Africa

Oceania

NATIONAL

Proportion of population

using improved

sanitation facilities

(excluding shared)

Proportion of

population using

improved

sanitation facilities

(including shared)

Latrines and other

<1

Sewer connections

RURAL

Proportion of population

using improved

sanitation facilities

(excluding shared)

Disposed of in situ

<1 

<1

<1

Proportion of

population using

improved

sanitation facilities

(including shared)

Latrines and other

URBAN

Proportion of population

using improved

sanitation facilities

(excluding shared)

Safely managed

Proportion of

population using

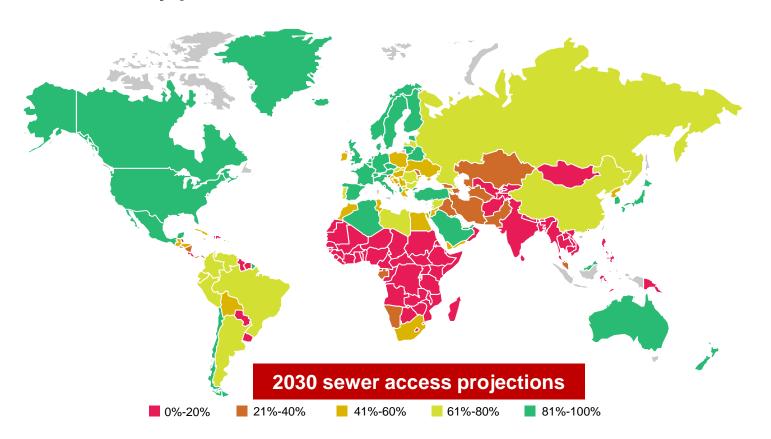
improved

sanitation facilities

(including shared)

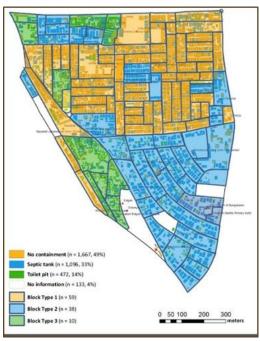
Latrines and other

## Many parts of the world will continue to lack access to sewers



## INCREASED SANITATION COVERAGE - BUT STILL UNSAFE

#### Khulna - Bangladesh





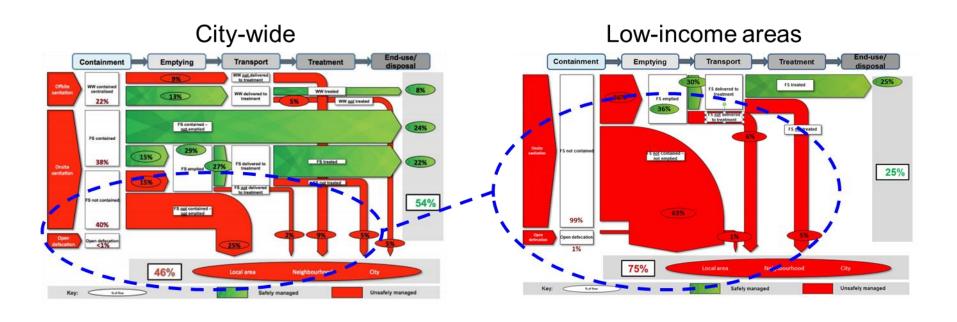


India – CPR Report, August, 2019

- Septic Tanks are dominated by 81% in urban India only 2 % comply the Indian Standard.
- 65% of the septic tanks discharge their effluent into open drain
- Only 13% HHs emptied their septic tank once in their lifetime.

...Safely Managed Sanitation starts with safe containment

# AREA-SPECIFIC SANITATION ISSUES – KAMPALA, UGANDA



# IF INVESTMENTS AND SERVICES DO NOT TARGET THE POOR THEY WILL NOT REACH THE POOR

- Most(?) of the sanitation spending was for urban conventional sewers in very limited areas of metropolitan areas
- The urban poor still fall outside of many utilities' mandates.
- OBA in sanitation targets poor but is often projectized
- Few government entities have a mandate much less targets or resources to serve these communities, adding to targeting challenges



# WHAT GETS MEASURED GETS MANAGED















# GENDER MISSING IN SANITATION SERVICE DESIGN

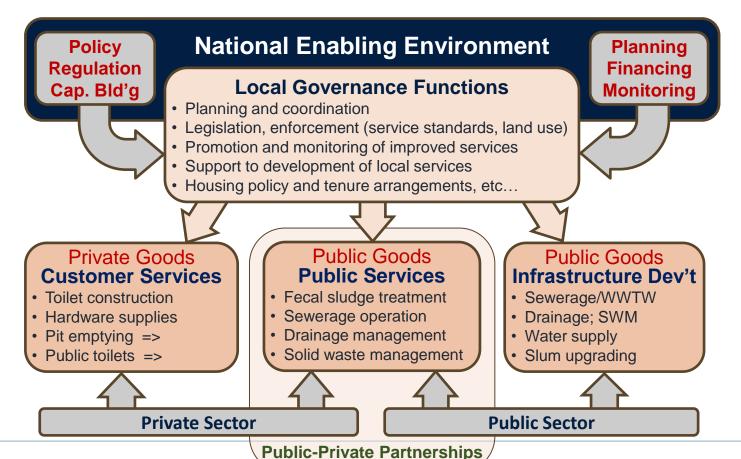
Service systems do not address women's roles in emptying and maintenance, resulting in increased





Lack of gender disaggregated data inhibits inclusive sanitation policy making and planning
Only 10% of 152 WB Projects tracked gender indicators
Women largely missing from WSH leadership and technical roles in public & formal private sectors\*

# WE MUST QUESTION FINANCING NORMS



# WSH TEAM STRATEGY

# **WSH VISION**



Enable widespread use of safely managed, sustainable sanitation services, contributing to positive health, economic, and gender equality outcomes for the world's poorest.

#### **FOCUS AREAS**



TRANSFORMATIVE TECHNOLOGIES & COMMERCIALIZATION



MEASUREMENT, EVIDENCE AND DISSEMINATION FOR SCALE



URBAN SANITATION MARKETS



POLICY AND ADVOCACY

**Strategy Overview Brief here**: <a href="https://www.gatesfoundation.org/What-We-Do/Global-Growth-and-Opportunity/Water-Sanitation-and-Hygiene">https://www.gatesfoundation.org/What-We-Do/Global-Growth-and-Opportunity/Water-Sanitation-and-Hygiene</a>

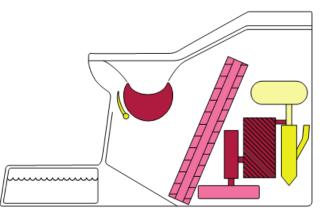
# THE TRANSFORMATIVE TECHNOLOGY AND COMMERCIALIZATION (TTC) INITIATIVE IS DESIGNED TO ADDRESS TODAY'S LIMITATIONS

#### **ELIMINATE PATHOGENS**

- Eliminate safety concerns via handling
- Reduce disease burden
- Improve environmental safety

#### **OPERATE OFF GRID**

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

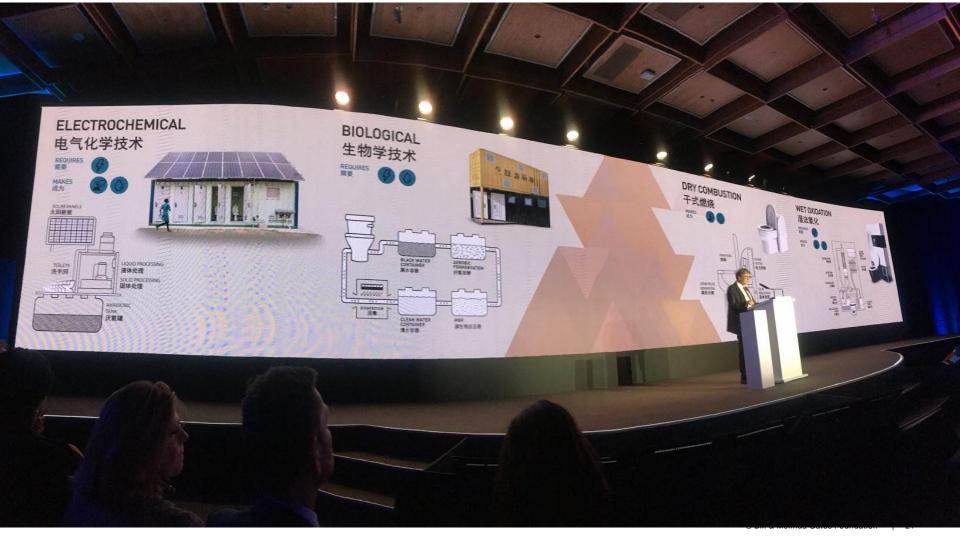


#### **CONVEY LOW LIFE-CYCLE** COSTS

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

#### PRESENT MODULAR, ATTRACTIVE INTERFACE

- Reduce / eliminate construction costs
- Provide clean and dignified product
- Eliminate odors and waste



## TRANSFORMATIVE TECHNOLOGIES: 3 SUB-PORTFOLIOS

#### **REINVENTED TOILET**



Single-unit (SURT)



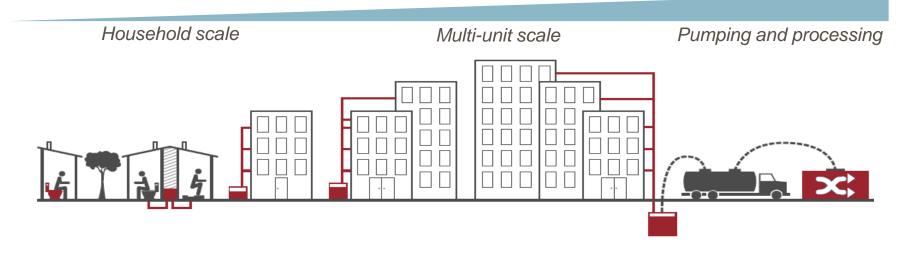
*Multi-unit (MURT)* 

#### **OMNI INGESTOR**

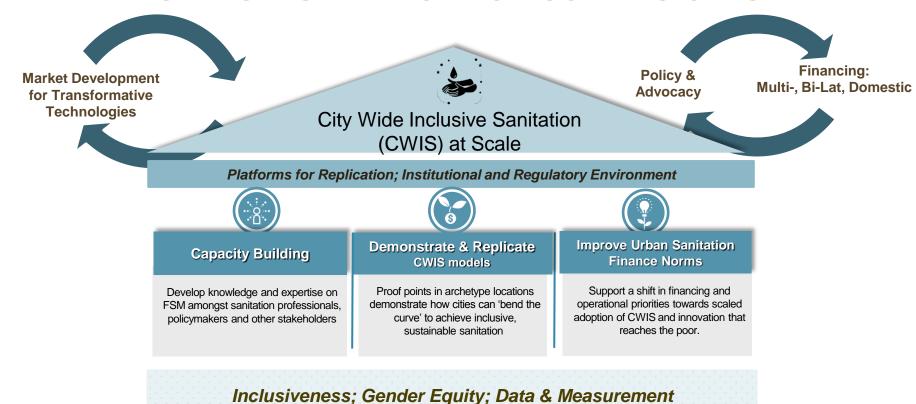


#### **OMNI PROCESSOR**





# BMGF-WSH: STRATEGY FOR SCALING CWIS



## A NEW WAY FORWARD

# TRADITIONAL APPROACHES

- Master planning/ investment only for centralized systems
- Financed by central gov't/loans
- Wealthy/business districts prioritized
- Limited coverage
- Sustainability challenges for O&M
- Resource recovery not considered
- No performance management
- On-site, small network not considered

#### CITY WIDE INCLUSIVE SANITATION

- 1. Everyone benefits from safe services and public investment equitably, with a focus on reaching the poorest
- **2. Gender and social equity** are designed into planning, management, monitoring
- 3. Human waste is **safely managed along the sanitation chain**, starting with containment
- 4. Authorities operate with a clear, inclusive mandate, performance targets, resources, and accountability
- 5. Authorities deploy range of hardware, funding and business models to meet goals
- Comprehensive long-term planning fosters innovation, pro-poor financing; informed by analysis of needs, resources
- 7. Political will and accountability incentivizes improvements in capacity, leadership, outcomes

#### NSS / FSM APPROACHES

- Often standalone pilots, not mainstream
- NGO / pilot financed
- FSM value chain/fecal sludge treatment plants
- Poor communities targeted but often missed
- Informal businesses,
   NGOs independent
   from service authorities
- Business models often unable to scale
- Limited professional capacity



# **CWIS FRAMEWORK: WHAT DOES GOOD LOOK LIKE?**

# Service Outcomes

System unctions

#### **EQUITY:**

'Fairness' in distribution and prioritization of service quality, service prices, and public finance/subsidies

#### **RESPONSIBILITY:**

Authority or authorities have clear mandate for ensuring inclusive, safe sanitation services

#### SAFETY:

Human waste is safely managed to protect public goods

#### **SUSTAINABLITY**:

Resources and revenues sustain performance

#### **ACCOUNTABILITY:**

Performance is transparently monitored and managed with +/-incentives

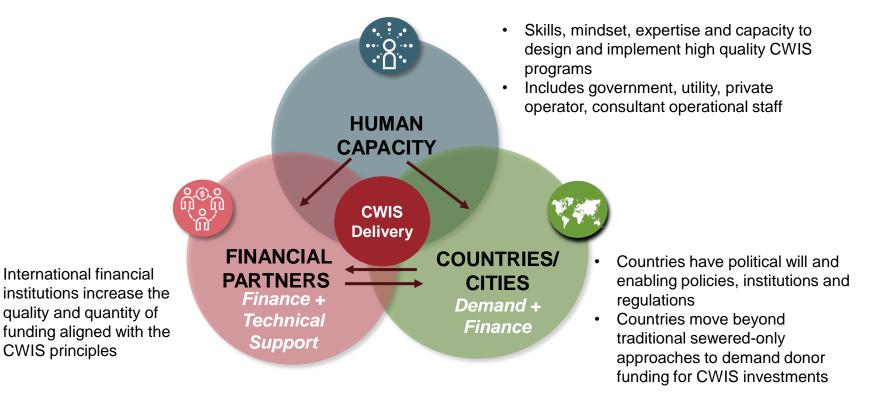
# RESOURCE PLANNING & MANAGEMENT:

Resources are managed to support implementation and achieve goals across

time / space

- 1. In your city, what authority has the mandate to ensure sanitation services are delivered? Are they executing that mandate?
- 2. For your city's sanitation authority, what agency monitors how well the authority performs its mandate?
- 3. What financing framework can it reference if seeking public capex finance?

## WHAT WILL IT TAKE TO SCALE CWIS?



#### **NOVEMBER 2018: NEW COMMITMENTS FOR CWIS & NSS**











- New five year WB/BMGF Urban Sanitation Innovation Partnership (USIP)
- Commitment to CWIS principles and aligning on CWIS metrics
- New CWIS window in Global Water Security & Sanitation Partnership Multi-Donor Trust Fund
- \$1B lending amount dedicated to CWIS-aligned urban sanitation programs
- Utilization of foundation funded TA hubs for project support in priority geographies

- Five year African Urban Sanitation Investment Fund (AUSIF) partnership
- Commitment to CWIS principles aligning on CWIS metrics
- Target of \$500M for the AUSIF, reaching 8M people, of which at least 30% will be in poor communities
- Foundation grant supporting preparation of seven CWIS projects
- Utilization of foundation funded TA hubs for project support in priority geographies

- New five year phase of ADB/BMGF Sanitation Financing Partnership
- Commitment to CWIS principles aligning on CWIS metrics
- Support demonstration (and, if successful, scale) of innovative technologies
- \$1B lending for CWIS and double NSS investments by 2023 to 400M and number of countries from 9 to 18, reaching to approx. 26 million people
- Incorporate CWIS into Livable Cities Operational Priority Plan
- Utilization of foundation funded TA hubs for project support in priority geographies

- Announcement of new \$70M project to support Senegal sanitation scale-up
- Commitment to CWIS principles aligning on CWIS metrics
- Other projects to promote innovation: new \$75M Cote D'Ivoire project and ongoing Guinea and Bangladesh projects
- Utilization of foundation funded TA hubs for project support in priority geographies

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# WE NEED MORE PROFESSIONALS IN THE SECTOR TO FULFIL INCREASING DEMAND



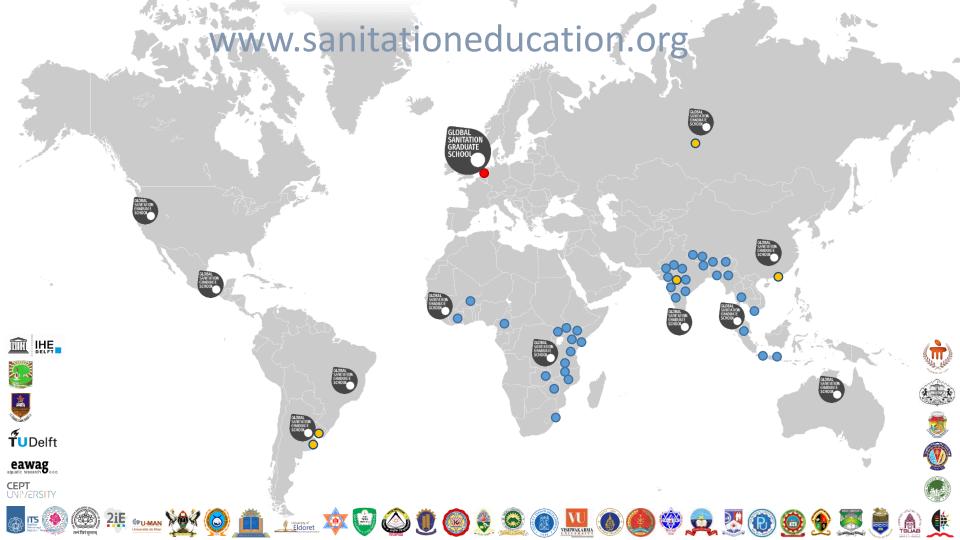














# The FSM toolbox offers a suite of tools to assess the overall FSM ecosystem in the city and plan for infrastructure improvements

LEARN MORE





# INTERNATIONAL STANDARD

ISO 24521

> First edition 2016-09-01

Activities relating to drinking water and wastewater services — Guidelines for the management of basic on-site domestic wastewater services

Reference number ISO 24521:2016(E)

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# CATALYZING CWIS SCALE VIA A THREE-PRONGED APPROACH LED BY LEVERAGED IFI ENGAGEMENT

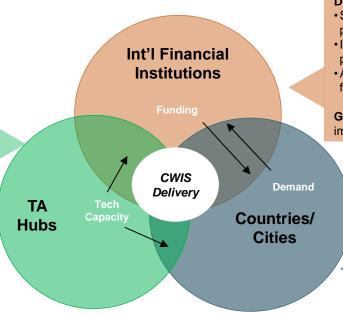
Vision

To catalyze CWIS implementation at scale such that: 1) IFIs increase the quality and quantity of funding aligned with the CWIS principles 2) recipient countries move beyond traditional approaches to 'demand' donor funding for CWIS investments and 3) skills and capacity exists to support donors and countries to design and implement high quality CWIS projects

#### **Technical Assistance hubs will:**

- Improve quality of project preparation and implementation
- Accelerate project cycle timelines & remove pain points
- Incorporate innovation to drive adoption of RTs & OPs
- Build networks of qualified and experienced firms to bid on projects
- Provide consistent metrics and knowledge sharing

Establishing two hubs in 2019 to serve SSA and South Asia, initially supporting at least 7 projects while developing regional expertise



#### Direct engagement with key IFIs in order to:

- Secure funding commitments and alignment with CWIS principles (including \$2.5B announced at RTE)
- Influence shifts in internal processes & incentives and provide enhanced skills & capacity for operational staff
- Align on key metrics, tools, knowledge sharing, and cofinancing opportunities

**Goal**: Priority donors double funding for CWIS by 2025 with improved quality of implementation

#### 'Follow the money' to influence demand at scale:

- CWIS embraced by all levels of government as a viable, long-term solution for sanitation service delivery
- Appropriate institutional frameworks, policies and domestic funding allocated for sustainability
- Scale achieved through networks & advocacy platforms
- Direct investment in 8 cities and 3 focus countries to demonstrate what good looks like

Goal: CWIS replication in at least 10 countries by 2025

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# IF YOU WANT TO GO FAST, GO ALONE. IF YOU WANT TO GO FAR, GO TOGETHER.

African proverb