35th SuSanA Meeting

Saturday 23. August 2025

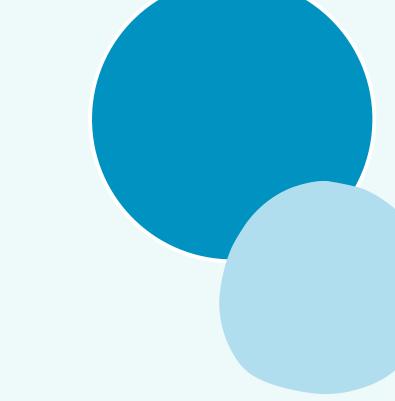
sustainable sanitation alliance



WASH in Institutions



WASH in Institutions



Next Presentation:

Sandra van Soelen - Simavi





Building South-South Learning Ecosystems for Sustainable School WASH

Sandra van Soelen

Project Leads WASH, Learn & Share - Simavi



WASH, Learn & Share project

Ensure sustainable access to safe water supply, safe sanitation and hygiene education in 18 schools and 36 villages in Uganda (2024-2026).

The project works on 3 objectives

- 1. Establish WASH model schools resulting in a healthy environment for girls and boys
- Improve WASH conditions at community level linking with school initiatives
- 3. Provide sustainable WASH products and services at school & communities through local government and private sector initiatives

Cross-cutting: Learning and innovation for sustainable change







How do we facilitate learning?

Multi-modal Learning Approach

- Learning week to establish exchange of knowledge and experiences between the implementing partners in the project
 - Co-designed and co-facilitated with implementing partners
 - Including interactive field visits for experience sharing
- WhatsApp group for direct linkages
 - With project partners
 - On thematic basis WhatsApp group for participants on budget advocacy training
- Google Drive as a space for collective learning
 - Space for sharing key documents
 - Tracking tools around jointly defined learning questions



Example - Hackathon Process: A Framework for Innovation

Participants

40+ participants including:

- WASH entrepreneurs: Hand pump mechanics, Plumbers, Reusable pad manufacturers
- Teachers and pupils
- Water utility and local government officials

Goals

- To show participants several opportunities in the WASH sector
- To empower participants to become a WASH change makers in their community, innovators in this programme.

Methodology and Approach

3-day format combining learning and innovation:

- Day 1: Capacity building (technical and entrepreneurial)
- Day 2: Ideation and team problem-solving
- Day 3: Prototyping, pitching, and jury feedback
- Tools: Trainer's guide, participants booklet, structured workshops, and prototyping kits





Example – Cost Recovery Planning

A full system to plan, finance and sustain WASH in schools long term.

Combines:

- Risk Management
- Life-Cycle Costing
- Revenue Mobilization
- WASH SME Engagement
- Monitoring, Evaluation & Learning

Involvement of different stakeholders, including Parents-Teachers Association, School Management Committee, Parents, Pupils, District Local Government and Local WASH SMEs/entrepreneurs.







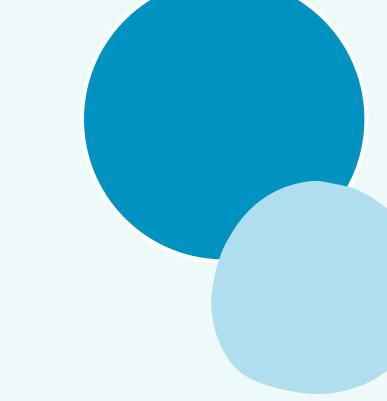
Thank you!

For more information contact: Sandra van Soelen Email: <u>sandra.vansoelen@simavi.nl</u>





WASH in Institutions



Next Presentation:

Shivangi Jain - Economist Impact



Toilet Loss: a hidden problem globally

The existence of toilets alone is not enough. Toilets are "lost" when they are built but become unusable due to lack of operations and maintenance.

427 million

school children globally without access to a usable school toilet (2023)

222 million

have no access to any school toilet

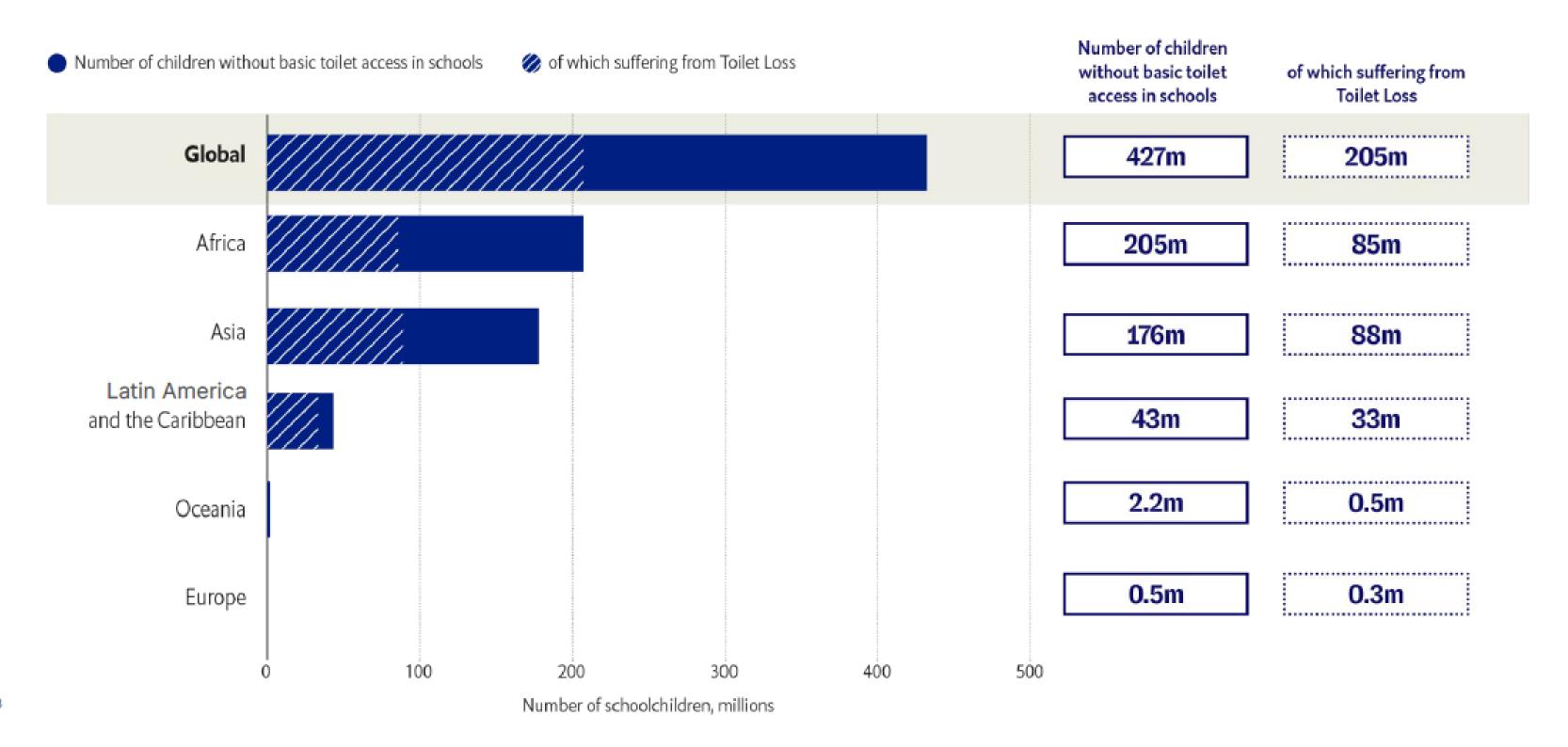
205 million

impacted by Toilet Loss Toilet Loss is the economic and societal cost we face when we build toilets but fail to maintain them



Toilet Loss is most prominent in developing regions, but is a global phenomenon

Number of schoolchildren without basic toilet access in schools, by region (2023)



6.2m school toilets built since 2015 have been "lost" due to lack of maintenance, equivalent to lost investment of US\$18.5bn

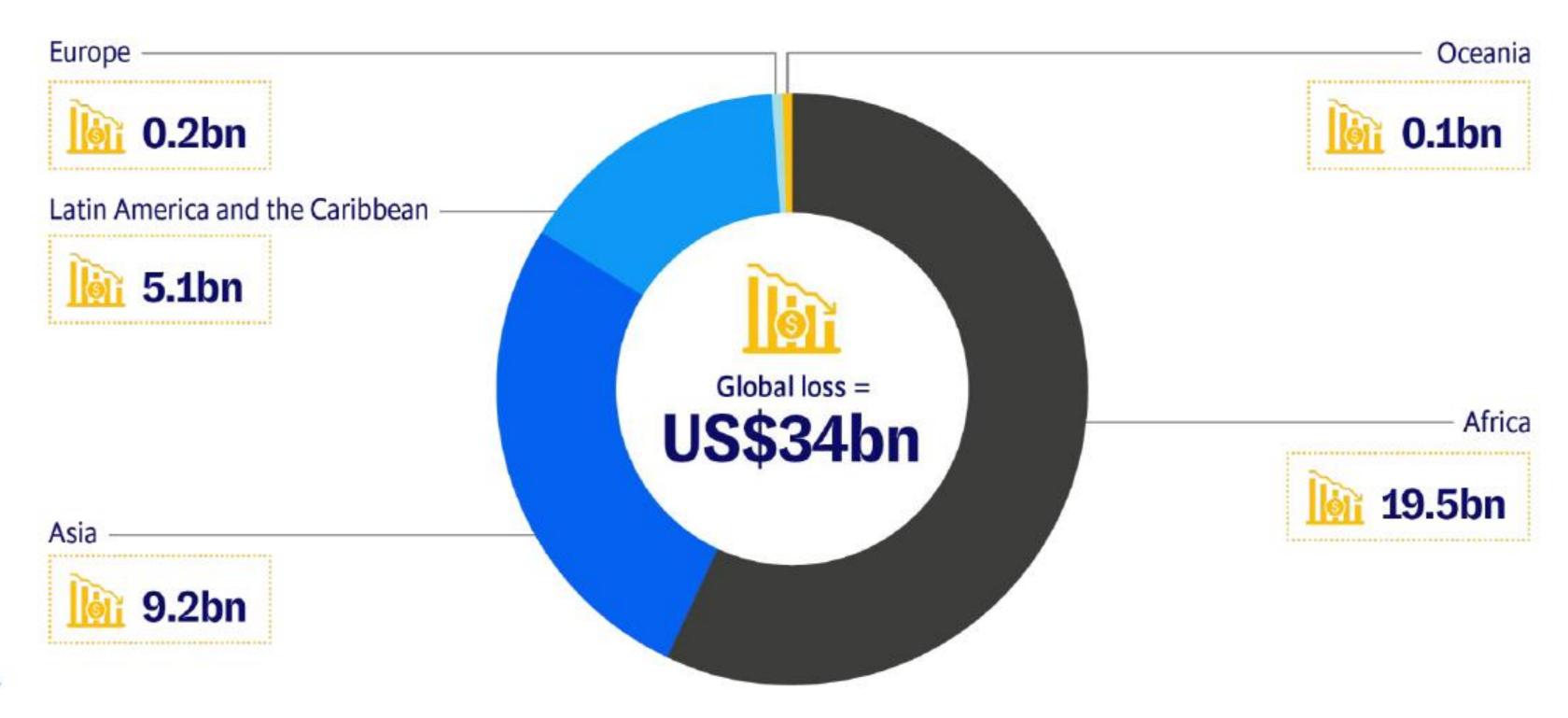
Total financial loss from neglecting school toilets, by region (2015-23)





In addition to the financial losses, the global economy has suffered a US\$34bn hit from higher healthcare costs and reduced economic output

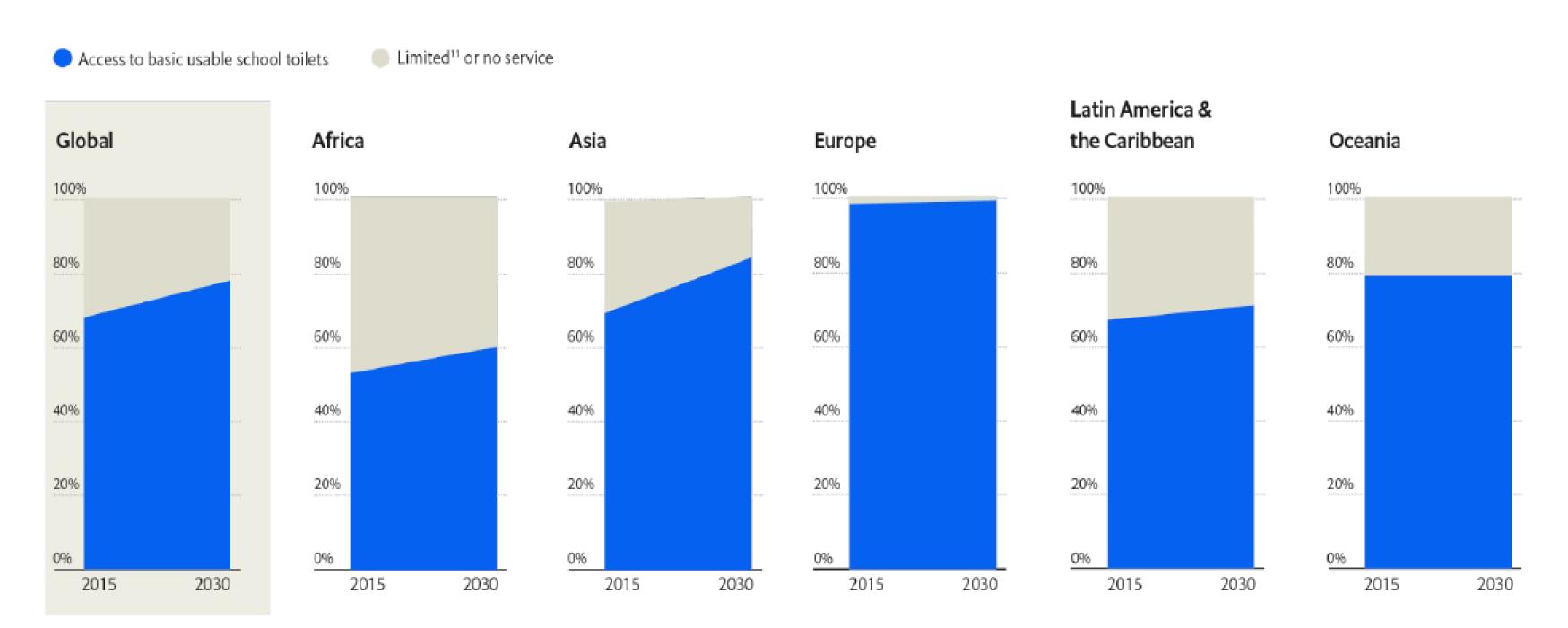
Total socio-economic loss from neglecting school toilets, by region (2015-23)





Progress is being made: 162m more children now have access to basic school toilets than in 2015

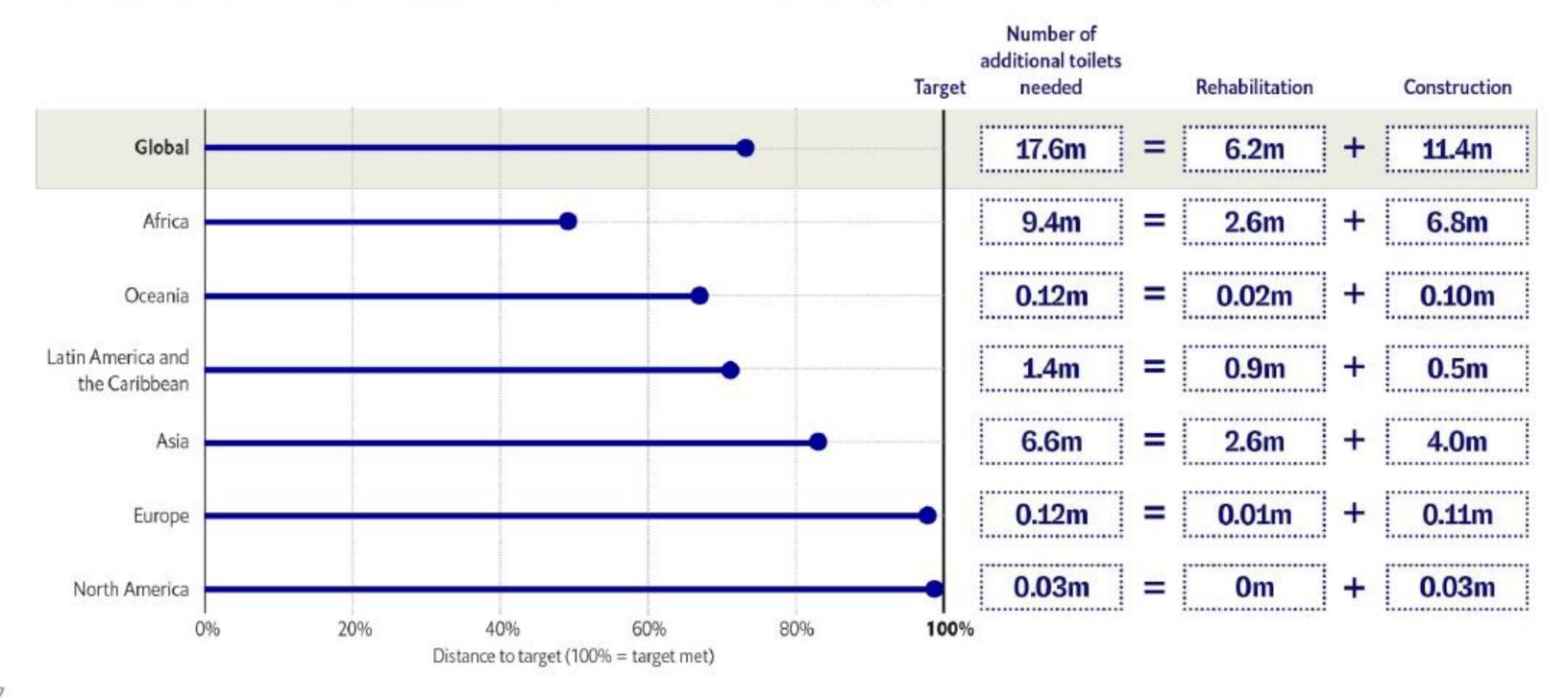
Comparing the share of access to school sanitation services (2015 versus 2023)





But it is not fast enough: 17.6m more basic toilets will be needed by 2030—a 40% increase in existing toilets

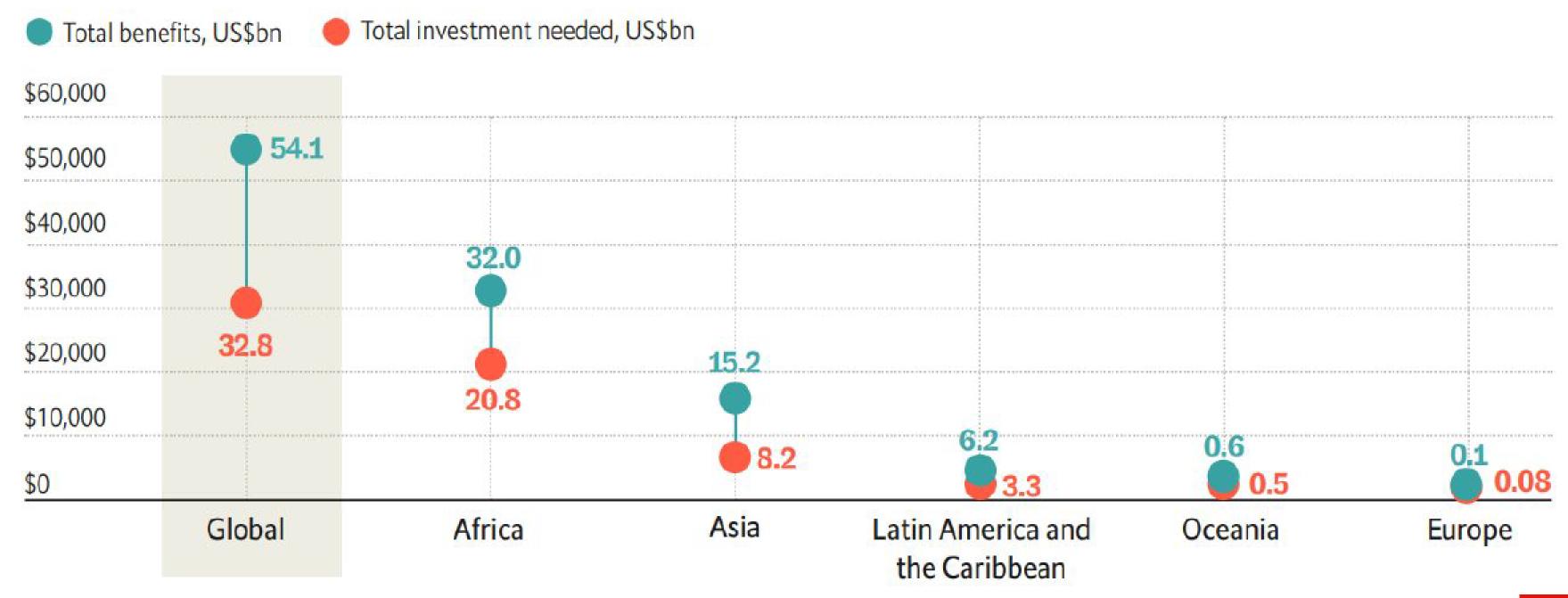
Additional school toilets needed to eliminate Toilet Loss by 2030





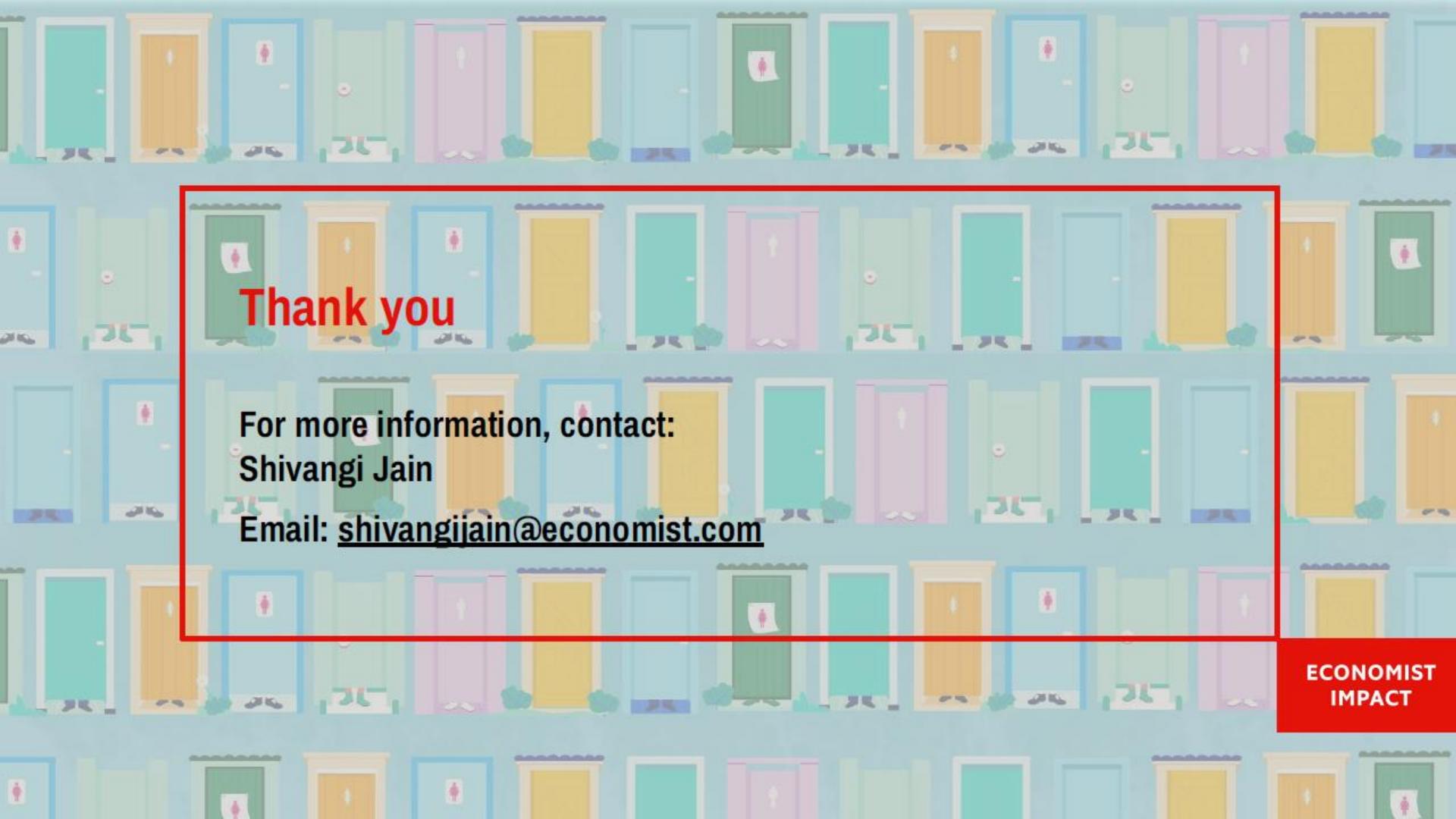
Closing this gap by investing in construction and O&M will cost US\$33bn globally, but will deliver higher benefits of US\$54bn

Costs and benefits from providing access to school toilets (2023-30)



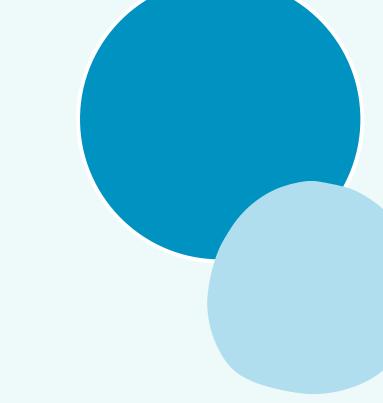
A three-step action plan for enhancing how school sanitation services are planned, delivered and managed







WASH in Institutions



Next Presentation:

Christian Wiebe - Viva con Agua



UNCONVENTIONAL BEHAVIOUR CHANGE APPROACHES WITH INFLUENCERS ON SOCIAL MEDIA



Tackling behaviour change



NOEL & GHETTOKIDS:

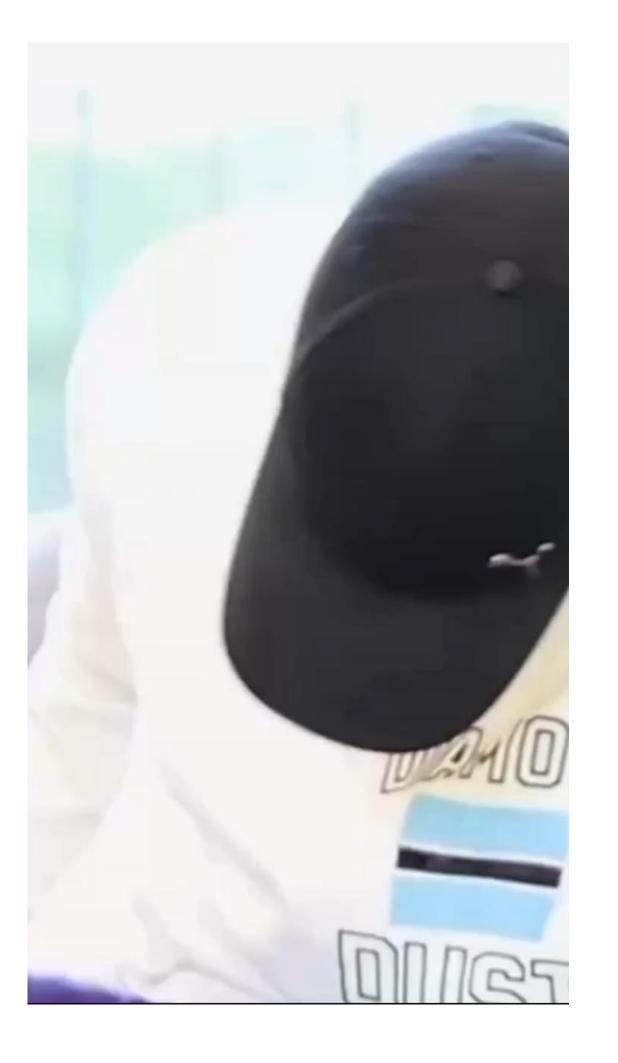
DANCE4WASH







CANDICE: CRAMPIN' MY STYLE







SOLUTIONS..



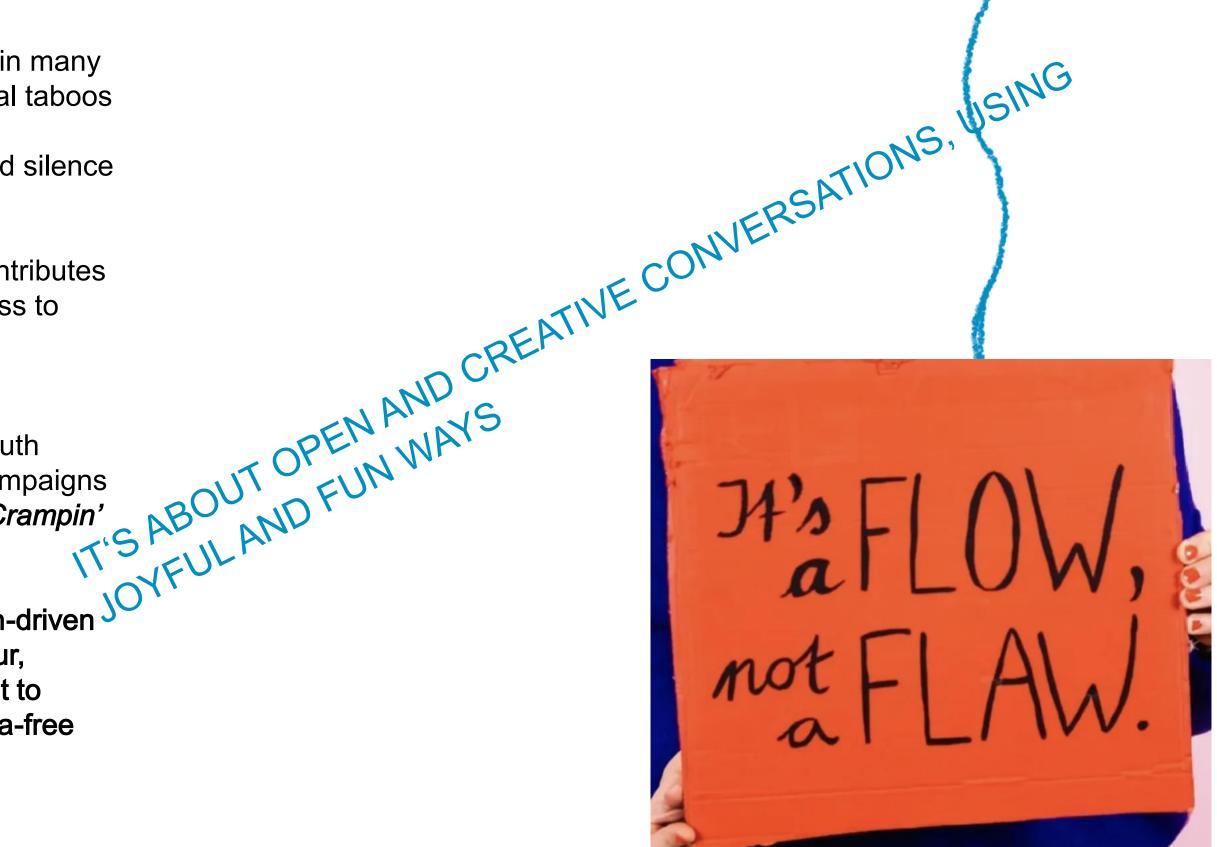
... IN SOUTH AFRICA

Menstruation remains stigmatized in many South African communities. Cultural taboos and misinformation hinder open conversations, fostering shame and silence around this natural process.

This stigma impacts self-worth, contributes to school absenteeism, limits access to menstrual products, and hampers menstrual health education.

To challenge these norms, VcA South Africa proposes dynamic digital campaigns like Let's Talk Period Louder and Crampin' my style.

Leveraging social media and youth-driven content, the campaigns use humour, music, and community involvement to dispel myths and encourage stigma-free discussions about menstruation.

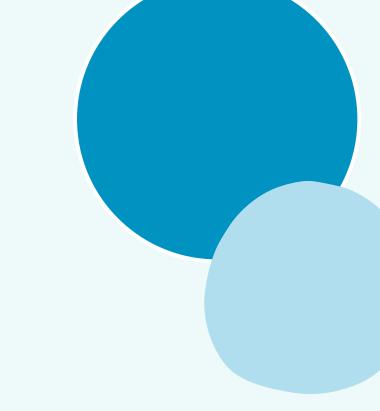




Sector Updates



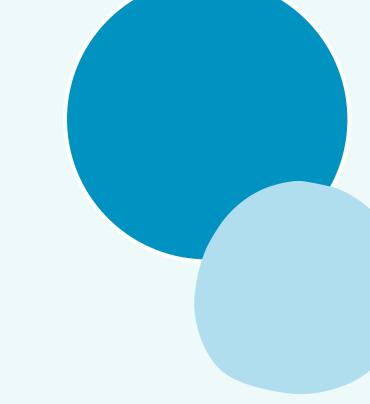
Sector Update



Next Presentation:

Sareen Malik - ANEW on behalf of AMCOW

Sector Update



Next Presentation:

Pierre Flamand - Japan Sanitation Consortium

sustainable sanitation alliance

35th SuSanA Meeting



Towards sustainable sanitation services through knowledge dissemination: role & activities of JSC

Dr. Pierre Flamand

Manager – International Affairs

Japan Sanitation Consortium



SEI OfficesStockholm, Sweden



Sanitation in the Asia-Pacific Region

1.7 billion people in the region lack access to modern sanitation facility with tens of millions of people moving every year into slums or other areas with poor infrastructure (ADB 2014)

About 780 million people still defecate in the open and 80 % of wastewater is discharged with little or no treatment (ADB 2014)

Around half of the rural population in Asia and the Pacific has no access to improved sanitation, while the region's urban population has more than doubled between 1950 and 2000, creating a huge demand for water and wastewater treatment systems (UN Asia-Pacific Knowledge Management Hub)

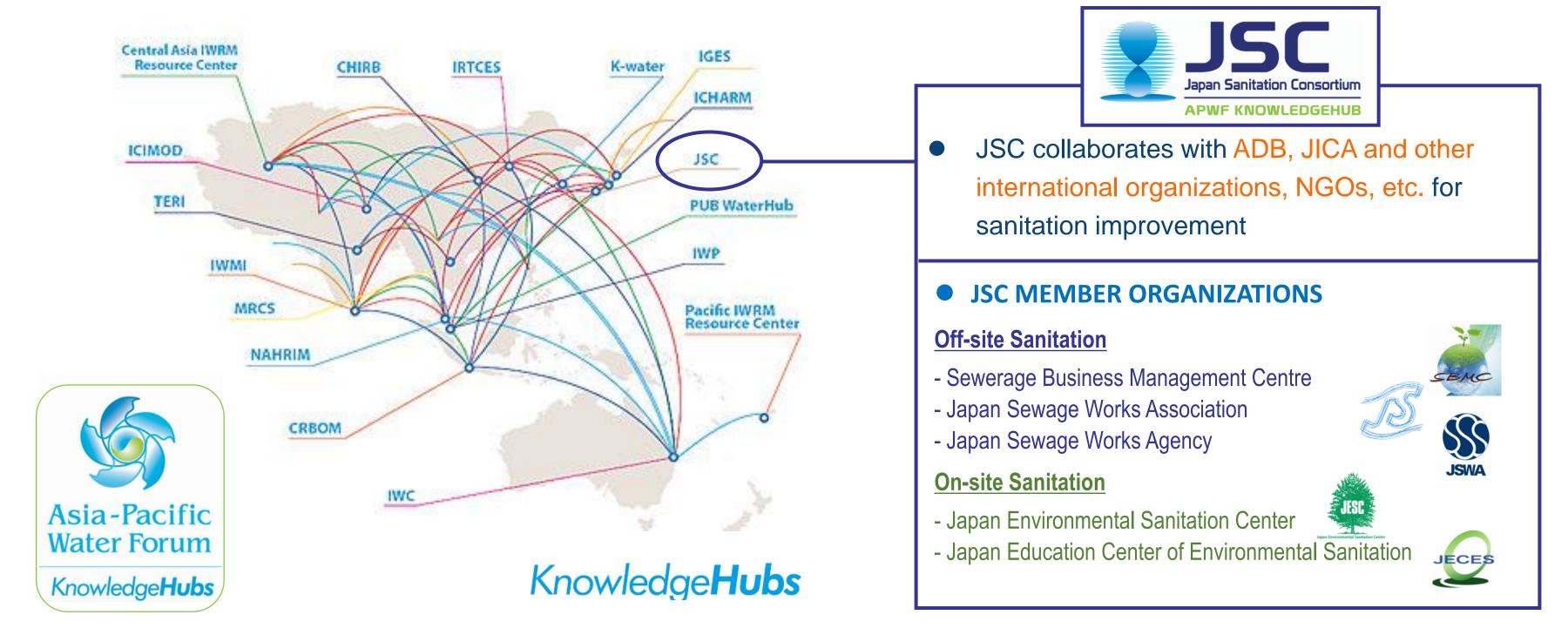
347 million children under 18 are exposed to high or extremely high water scarcity in South Asia (UNICEF 2023)

Even if access to sanitation is achieved, poor management practices unable adequate use of sanitation facilities

Region with high disparities: some countries have achieved universal access to sanitation services/safe wastewater treatment while other are struggling to provide access or even face a stagnating or worsening situation



- The Japan Sanitation Consortium (JSC) was launched on 16 October 2009
- JSC gathers 5 professional institutions with more than 50 years of experience, specializing in on-site and off-site sanitation contributing to the safe and sustainable management of wastewater and sludge in Japan
- JSC covers a wide range of knowledge (from toilet-to-river) drawing on Japan's expertise in sanitation as well as success stories and good practices from other countries



Human resource development from JSC members for sustainable sanitation services in a standardized manner

Institutions for the training and national certification of technicians/engineers involved in sanitation

Japan Sewage Works Agency (JS) [for off-site sanitation (sewerage) systems]

- Established in 1972 to address the shortage of human resources for sewerage system management
- Training mainly for employees from local governments \rightarrow 2,500 trainees/year
- Courses for master planning, management, detail design, construction supervision, O&M, and PPP/global activities (certification courses according to Article 22 of Sewerage Act)
- Residential facilities at training center in Toda City, Saitama Prefecture to accommodate trainees
- Supports small municipalities for master planning

<u>Japan Education Center of Environmental Sanitation (JECES)</u> [for on-site sanitation systems]

- Established in 1966 to address the shortage of human resources for Johkasou system management
- Conducts the training courses and national examinations of various Johkasou technicians
 → more than 3,000 trainees/year
- Certification courses for Johkasou operators, Johkasou installation workers,
 Johkasou technical supervisors, Johkasou inspectors, and special seminars for Johkasou technicians
- Organizes the yearly 'International Workshop on Decentralized Domestic Wastewater Treatment in Asia'

<u>Japan Environmental Sanitation Center (JESC)</u> [for on-site sanitation systems]

- Established in 1954
- Conducts since 1966 the training courses and national examinations for desludging and night soil/sludge treatment plant operators (mainly for local governments)
- Has trained more than 120,000 professionals
- Organizes the yearly JICA training course on: 'Introduction and Dissemination of Decentralized
 Wastewater Treatment Systems'













JSC core activities

Networking

connect with sanitation-related institutions to create a network of professionals for long-term collaboration

Information gathering

conduct research and field studies in different countries to accurately understand local sanitation contexts and issues, and identify success stories

 Knowledge dissemination and information sharing convey knowledge and information on good practices in sanitation (on-site and off-site) from Japan and other countries

Support to int'l donor organizations and other int'l institutions, through

- the dispatch of experts in capacity development training programs, field studies, technical reports with improvement strategies, publications, and
- the organization of workshops, seminars and sessions at international events

(collaboration with organizations such as ADB, JICA, ADBI, BMGF, APWF, SNV and ASCI)





Organization of workshops, seminars & sessions at international events











Organization of workshops, seminars & sessions at international events

DATE: 08.23 • 9:00-10:30 a.m. CEST

Session ID: 11010

BREAKING WITH BUSINESS AS USUAL

Sanitation Innovations in the Asia-Pacific

To shift the paradigm and accelerate sanitation progress, different innovations and new approaches such as Citywide Inclusive Sanitation are needed.

This session will explore on how to ensure access to sustainable sanitation services for the poor and vulnerable.



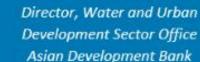
Brian Arbogast

Director, Water, Sanitation, and Hygiene
Bill & Melinda Gates Foundation



G. Asok Kumar
Director General,
National Mission for Clean Ganga

Speakers



Satoshi Ishii

Panelists



Kate Medlicott Team Lead, Sanitation and Wastewater, World Health Organization



V. Srinivas Chary Centre director and Professor, Administrative Staff College of India



Genevieve Kelly
Program Director,
Partnership for Better Living,
SATO, part of LIXIL

Moderators



Mitzi Borromeo

Director and Executive Producer,

Mind S-Cool TV



Pierre Flamand

Manager of International Affairs,

Japan Sanitation Consortium







Patrick Lester N. Ty

Chief Regulator, Metropolitan

Waterworks and Sewerage System

Regulatory Office, Philippines







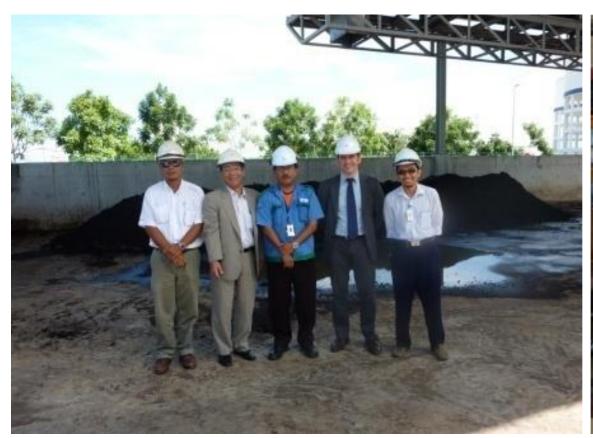


Information gathering & knowledge dissemination: field studies









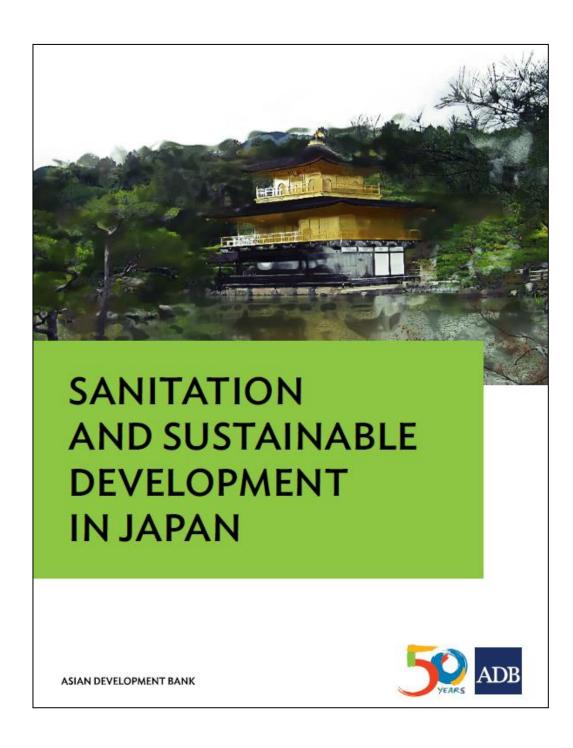


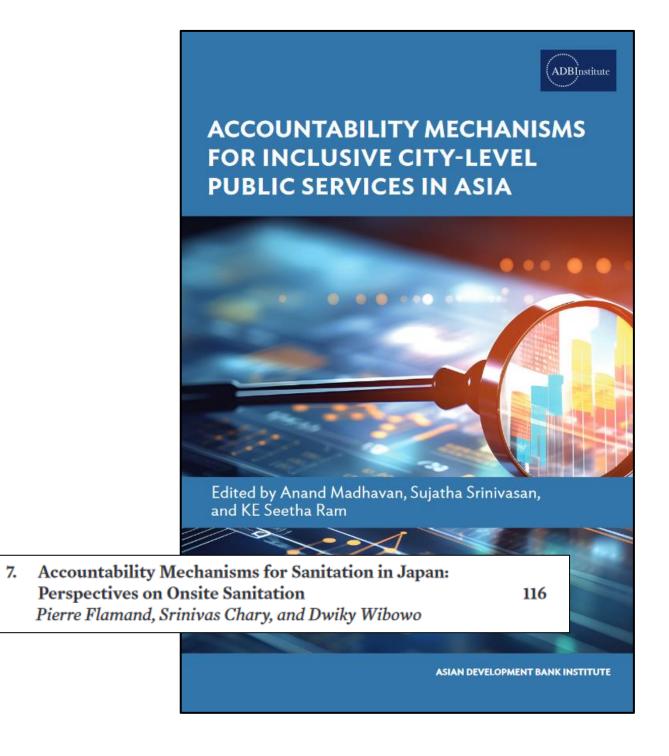






Knowledge diffusion: publications (support to int'l donor organizations)





https://www.adb.org/sites/default/files/publication/209511/s anitation-sustainable-dev-japan.pdf

https://www.adb.org/publications/accountability-mechanismsfor-inclusive-city-level-public-services-in-asia





Knowledge diffusion: publications (support to int'l donor organizations)

4 working papers from JSC-ADBI joint study: 'Preparatory field studies for on-site wastewater management improvement projects in India'



ADBI Working Paper Series

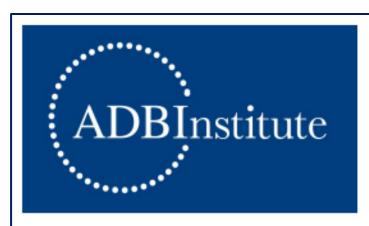
WASTEWATER MANAGEMENT AND REUSE IN HYDERABAD, INDIA: COMPARISON OF THE RELATED REGULATIONS BETWEEN JAPAN AND INDIA



BI Working Paper Series

OGRESS OF FECAL SLUDGE
ANAGEMENT FOR ON-SITE
INITATION AND WASTEWATER
EATMENT SYSTEMS IN WARANGAL
IY AND HYDERABAD METROPOLITAN
GION, TELANGANA STATE, INDIA

https://doi.org/10.56506/AVPO8023



ADBI Working Paper Series

OPERATION AND MAINTENANCE AND PERFORMANCE MONITORING OF ON-SITE WASTEWATER TREATMENT SYSTEMS IN JAPAN: A PROPOSAL FOR INDIA

https://doi.org/10.56506/BWTF7138



ADBI Working Paper Series

REGULATION AND MONITORING OF THE DESIGN AND INSTALLATION OF ON-SITE WASTEWATER TREATMENT SYSTEMS IN INDIA

https://doi.org/10.56506/GNRJ3042

https://doi.org/10.56506/TJRY1633

International activities: member of ISO international committees as experts in TC 224 & PC 305











ISO/TC 224

Secretariat: AFNOR

Voting begins on: **2016-05-13**

Voting terminates on: 2016-07-07

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

Activités relatives aux services de l'eau potable et des eaux usées — Lignes directrices pour la gestion sur site des services d'eaux usées domestiques de base



Strengths of **JSC**

- consists of 5 member organizations with more than 50 years of experience in environmental sanitation and human resource development
- provides 'easy-to-understand' information on the sewerage financial system and the institutional/regulatory frameworks for on-site sanitation and wastewater management in Japan → Sanitation and Sustainable Development in Japan
- brings together technical and management experts in both centralized wastewater management (off-site sanitation) and on-site wastewater management. In Japan, JSC is the only organization of its kind, both in the public and private sectors
- Taking advantage of the above characteristics, JSC can analyze the sanitation issues faced by developing countries and provide advice and improvement strategies to local/central governments and int'l donor organizations
 - → Preparatory field studies for on-site wastewater management improvement projects in India





Japan Sanitation Consortium (JSC)

Water Knowledge Hub for Sanitation in the Asia-Pacific Region

JSC Expertise

- Member of a regional network of water expert organizations, committed for sanitation improvement in the Asia-Pacific Region
- Member organizations specialized in on-site and off-site sanitation

JSC Services

• Networking, information gathering & knowledge sharing, support to international donor organizations, NGOs

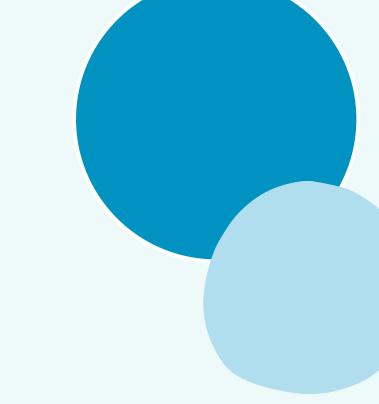
JSC Partners

ADB, JICA, Asia-Pacific Water Forum, Japan Water Forum, UNICEF, etc.



Thank you for your attention

pierre@jsanic.org
www.jsanic.org



Next Presentation:

Sanyu Lutalo - The World Bank

The Global Sanitation Crisis

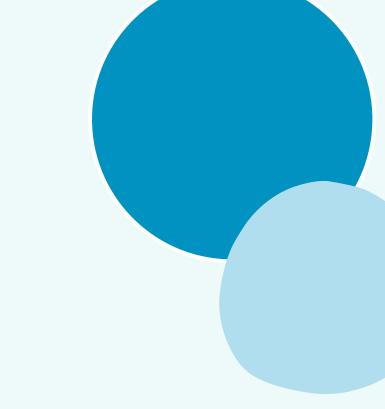
Pathways to Urgent Action



World Bank Group, August 2025

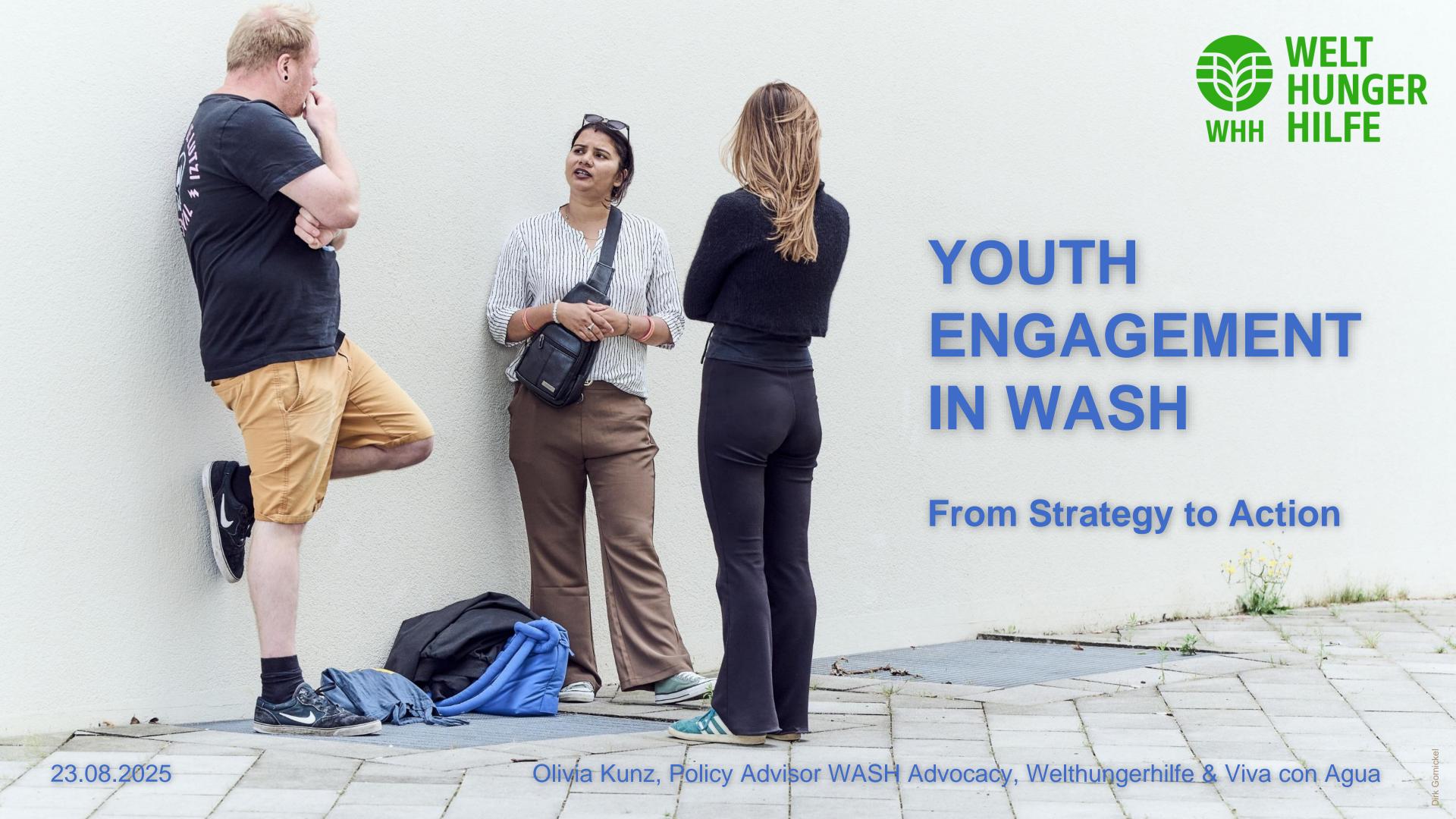


Sector Update



Next Presentation:

Olivia Kunz - Deutsche Welthungerhilfe



YOUNG PEOPLE ARE CENTRAL TO SHAPING WASH SYSTEMS

Yet their potential is often limited



Youth drive innovation, energy & creative WASH solutions, and are one of the largest population groups



Despite their size, they often lack meaningful roles in decision-making, often limited by lack of access to quality education and decent jobs



The gap is visible beyond the policy level and extends to the community-level, where engagements focus on elders and adults



If we want resilient WASH systems that are equitable and future proof, we must ensure young people are involved



YOUTH ENGAGEMENT ISN'T OPTIONAL, IT'S EMBEDDED IN OUR GLOBAL STRATEGY

Young people are catalysts of change

Approach

Youth = 15 - 24

- Locally led, rights-based, inclusive, gender transformative
- We seek diverse pespectives, especially from the Global South, Indigenous youth, and marginalized communities
- Through a Global Youth Network within WHH, young people from project countries can share their perspectives, connect across borders, and directly shape our work

Welthungerhilfe Strategy 2025–2030

ZERO HUNGER ON A HEALTHY PLANET





YOUTH ENGAGEMENT IN WASH IS VITAL FOR ACCOUNTABLITY, EQUITY & SUSTAINABILITY

Engagement Mechanisms

- Young leaders are deeply connected to their communities
- They mobilise peers, bridge divides and champion human rights



This approach aligns with **Universal Languages for Change**, using art, music, and sport to reach people in ways youth excel at creating authentic and lasting impact.

ARCHANA YADAV

Youth activist & MEAL Officer at WHH

- Co-designed #Cricket4WASH sport as BC tool
- Faciliates safe spaces for adolescent girls on MHM and shapes the programmes that affect them
- Uses global platforms to share their messages and inspires others
- Archana's work is our strategy in action: youth-led, locally driven, and creating lasting WASH impact







Sector Update



Next Presentation:

Amelia Wenger - Wildlife Conservation Society





Wastewater Pollution, Coastal Ecosystems, and Climate Change: Synergistic Impacts and Pathways Forward

Dr. Amelia Wenger

Water Pollution Program Lead, Wildlife Conservation Society

Senior Research Fellow, University of Queensland





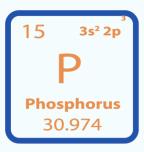


~80% of the world's industrial and municipal wastewater is discharged without treatment to surface waters, equaling about **300–400 million tons*** of pollution each year (IPBES, 2019; UNESCO, 2021). This proportion is even higher in developing countries due to a lack of infrastructure.



An estimated **4.3-7.1 million tons of nitrogen** from wastewater enter coastal environments every year, from both unsafely and safely managed sanitation (Wear et al., 2023).

An estimated **1.5 million tons of phosphorus** from wastewater
enter surface waters every year (Van
Puijenbroek et al., 2019).



wcs.org/coral/coastal-health-guide



55% of coral reefs are exposed to wastewater pollution (Tuholske et al., 2021), and ~15% of coral reefs are exposed to only wastewater pollution and no agricultural or sediment pollution (Andrello et al., 2022; Tuholske et al., 2021).



Wastewater pollution has been documented in **104 out of 108** coral reef regions with human populations present (Wear & Vega Thurber, 2015).



An estimated **88% of all seagrass ecosystems** (both tropical and temperate) are exposed to wastewater pollution (Tuholske et al., 2021).

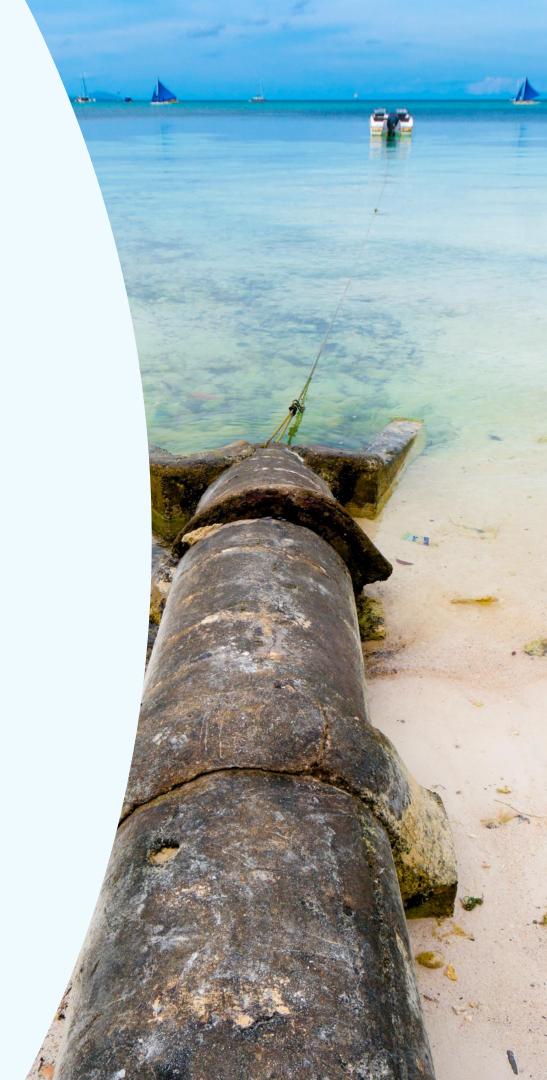


Globally, 26 classes of pharmaceutical drugs have been recorded in the marine environment of 34 countries, with several instances of bioaccumulation in a wide range of species, which is likely a vast underestimation of their prevalence (Dehm et al., 2021; Fabbri & Franzellitti, 2015; Greene, 2022; Madikizela et al., 2020; Madikizela & Ncube, 2022).



Wastewater pollution and coastal ecosystems

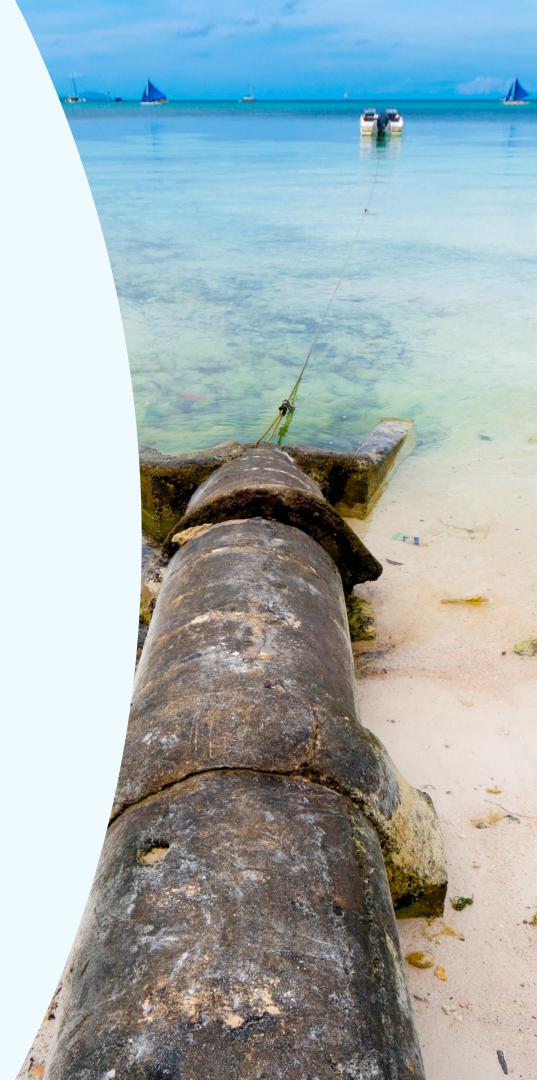
- Pathogens present in wastewater cause coral disease and mortality
- Nutrient pollution has lethal and sub-lethal impacts on mangroves, seagrass, and corals
- Wastewater pollution has caused large scale fish mortality events
- Pharmaceuticals significantly alter fish behavior

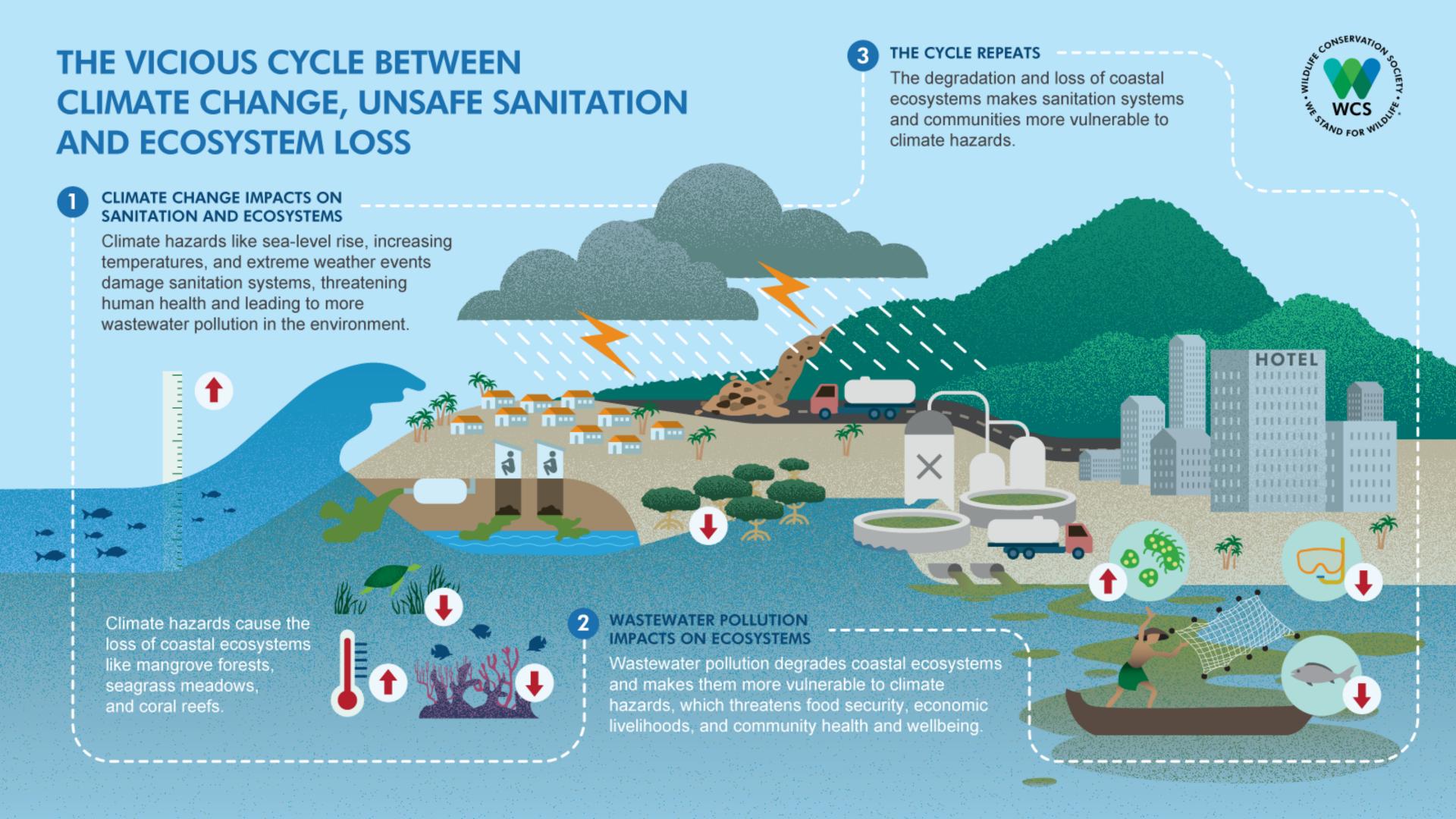


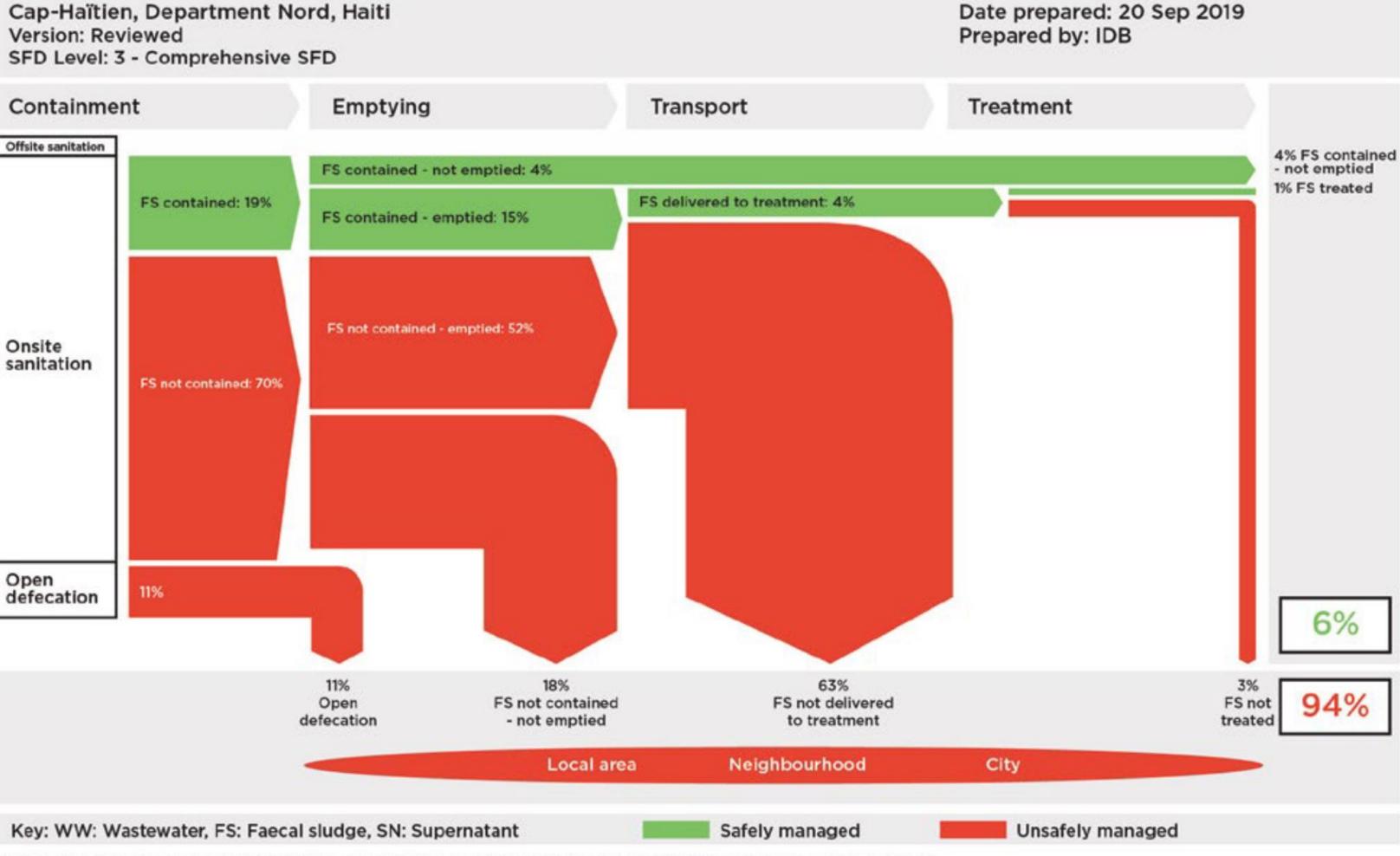


Wastewater pollution and climate change

- Wastewater pollution increases the prevalence and severity of coral bleaching.
- Wastewater pollution inhibits the recovery of coral reefs following bleaching events.
- Nutrient enrichment makes mangroves more vulnerable to sea-level rise and more likely to die from climate-related drought.
- Wastewater reduces the ability of mangroves and seagrass to store carbon, undermining blue carbon initiatives.







Produced with support from the SFD Promotion Initiative with funding from the Bill & Melinda Gates Foundation.

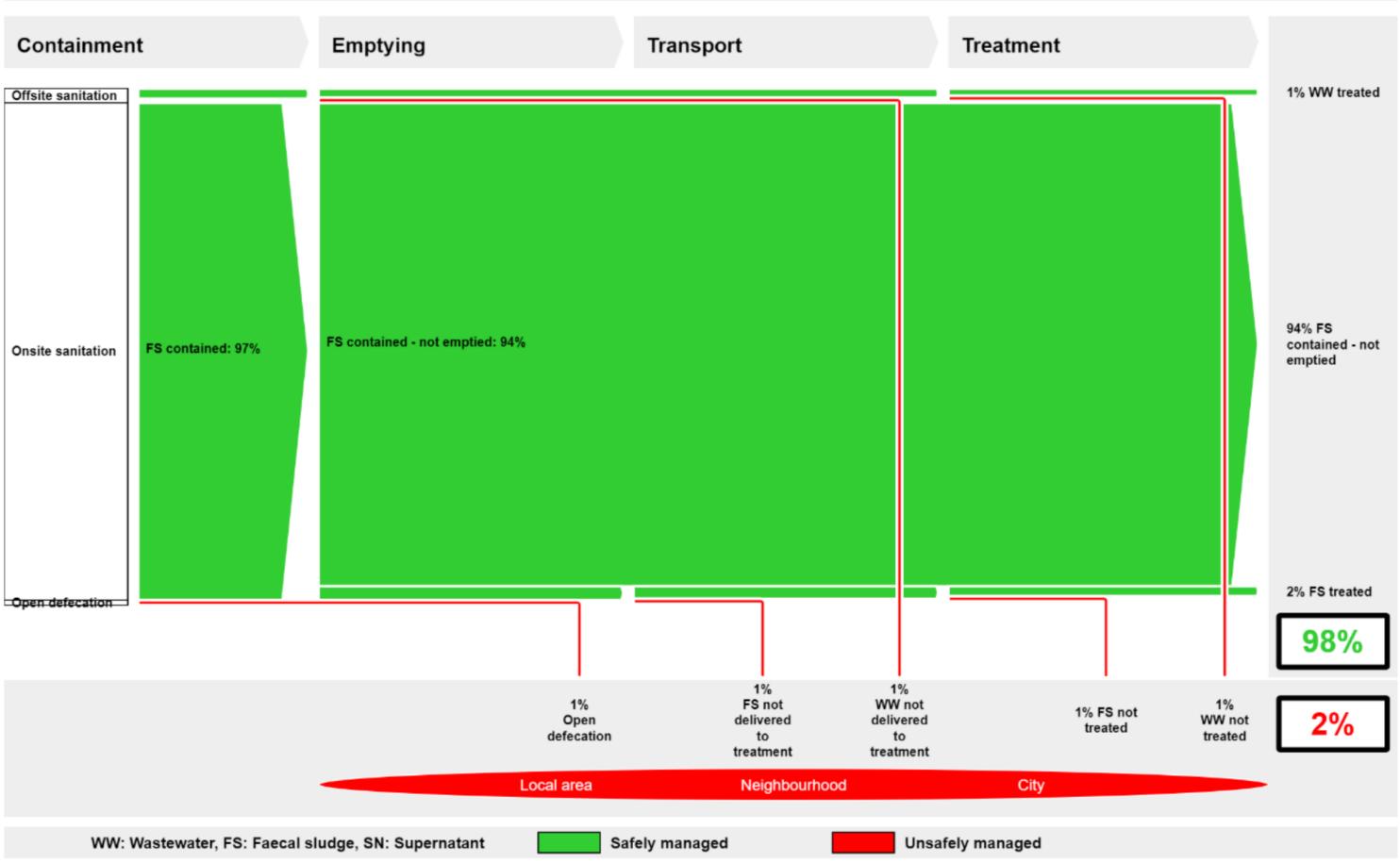
The SFD Promotion Initiative recommends that this graphic is read in conjunction with the city's SFD Report which is available at: sfd.susana.org

Saint Mary, Middlesex County, Jamaica

Version: Reviewed SFD Level: SFD Lite

Date prepared: 7 Aug 2022

Prepared by: CSE, GWP-Caribbean + GE



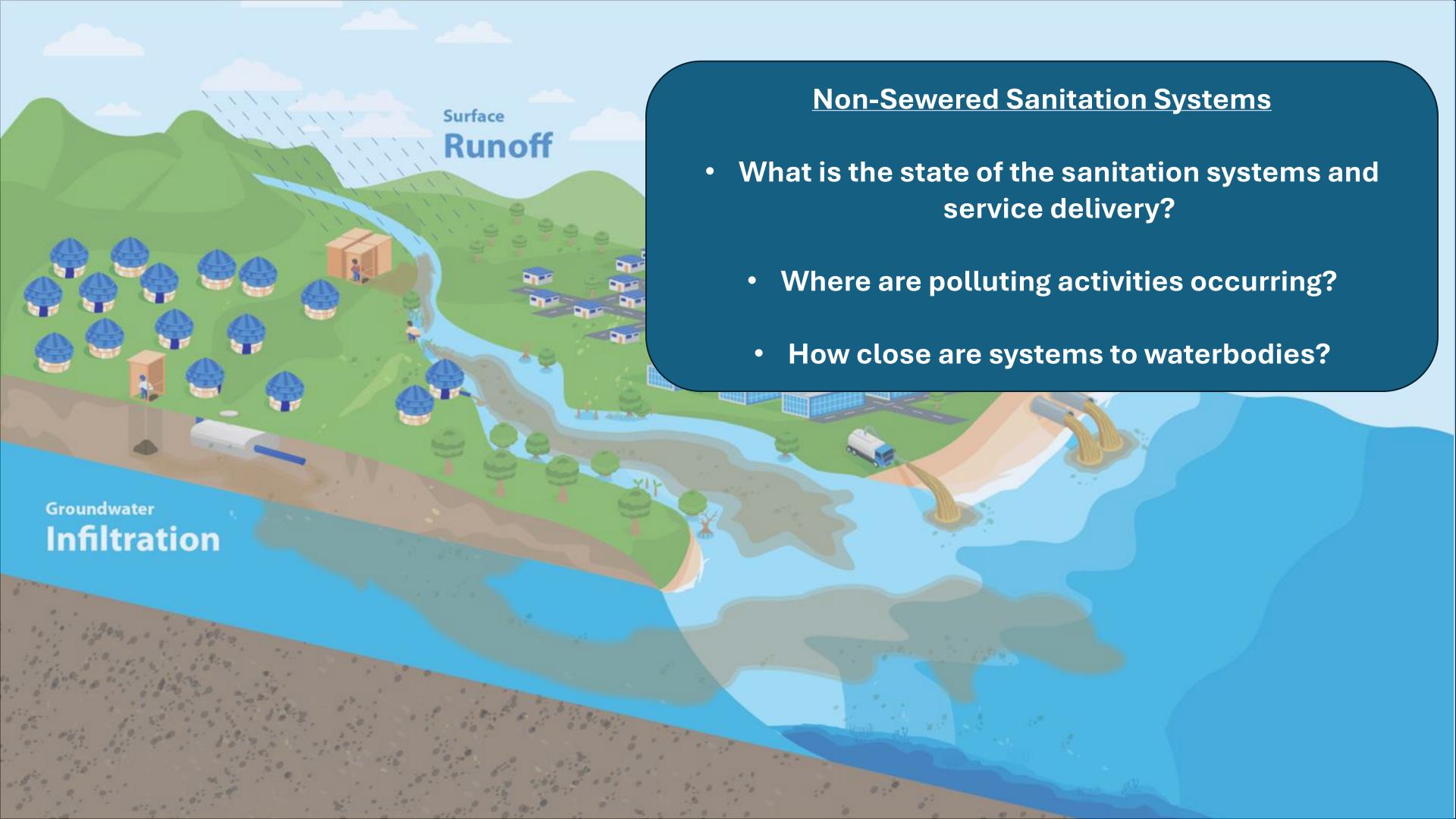


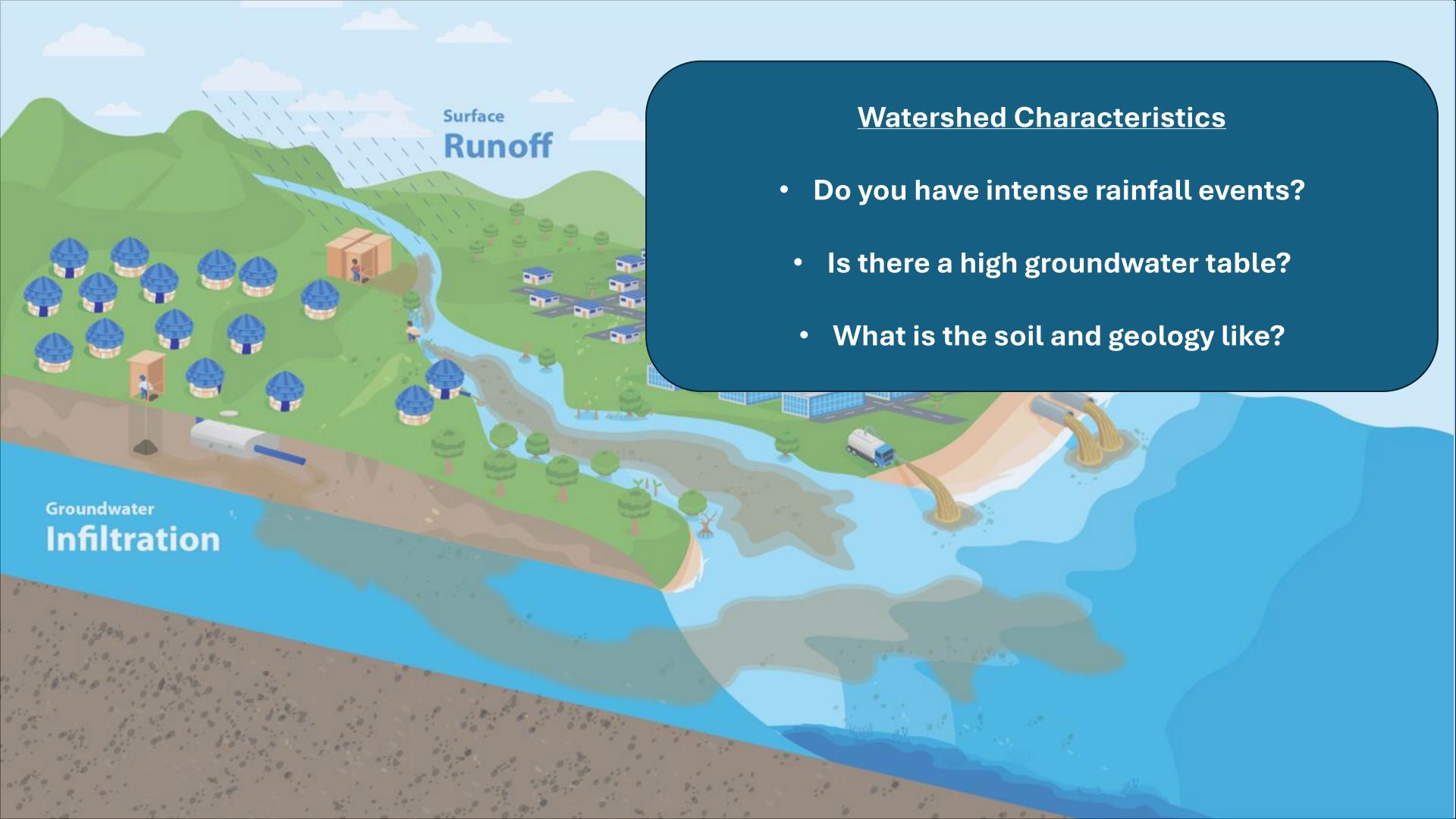


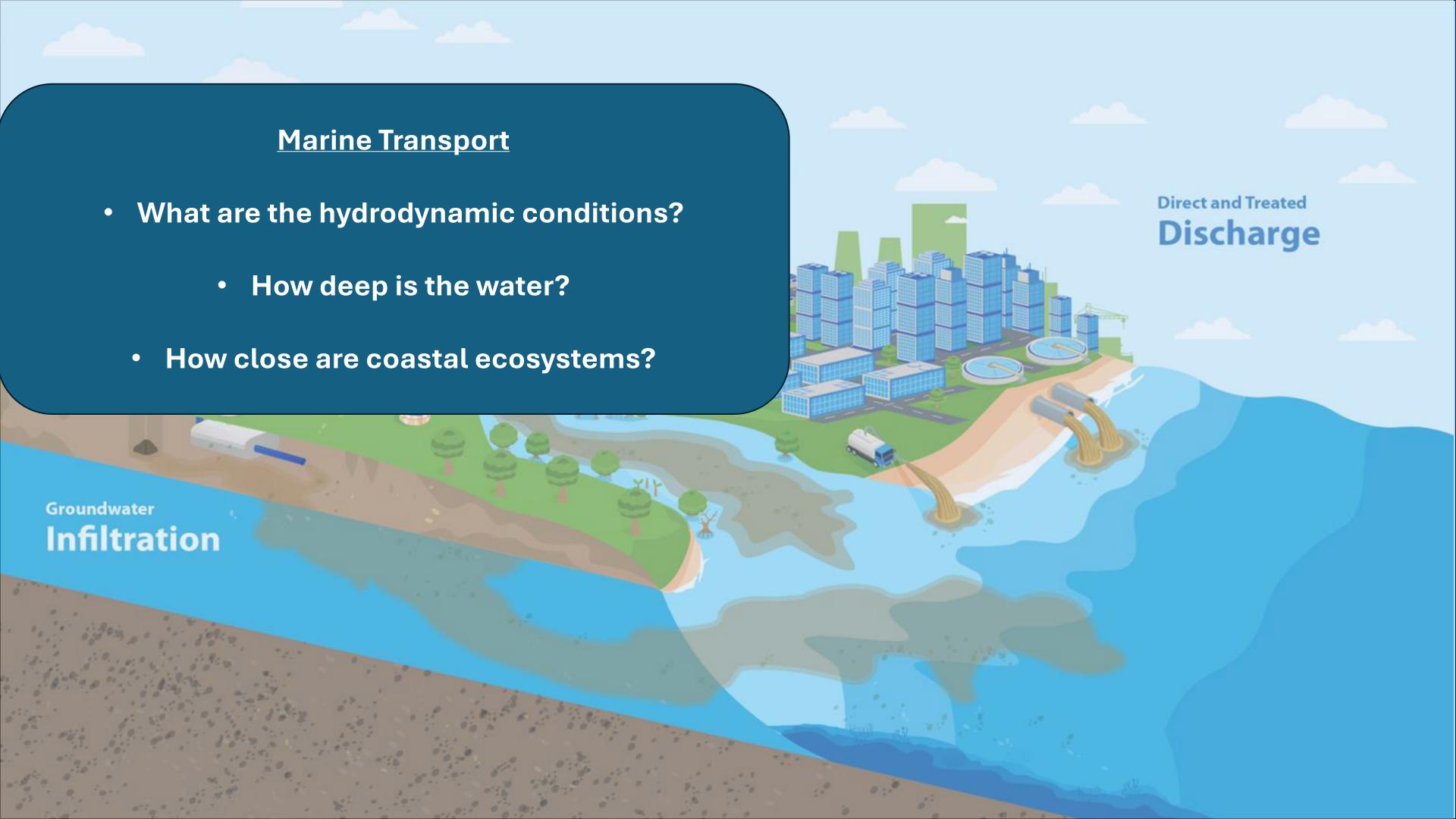
Sewered Sanitation System

- Does the wastewater treatment plant discharge to an area of interest?
 - What type of treatment is present?

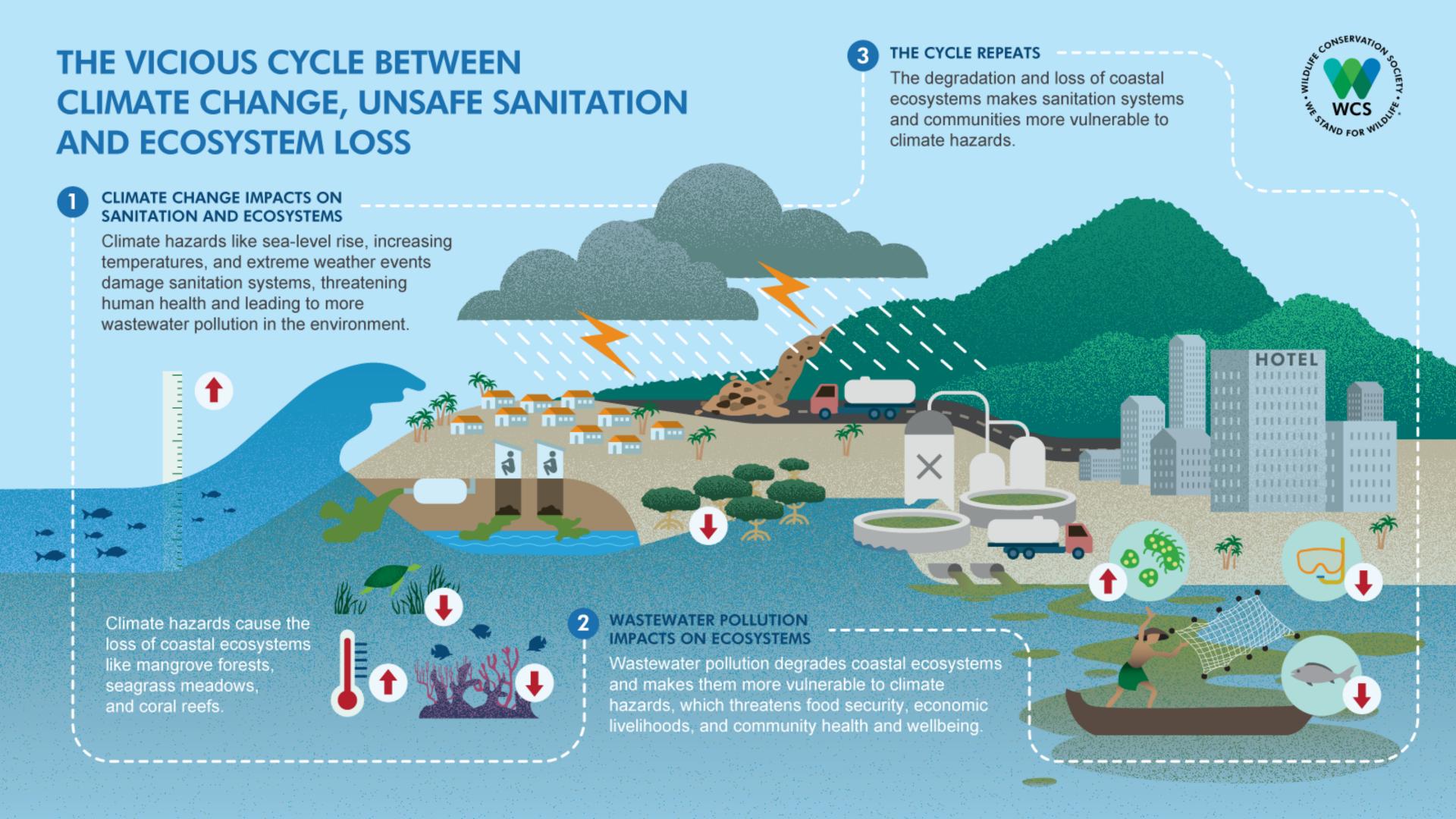
Direct and Treated
Discharge







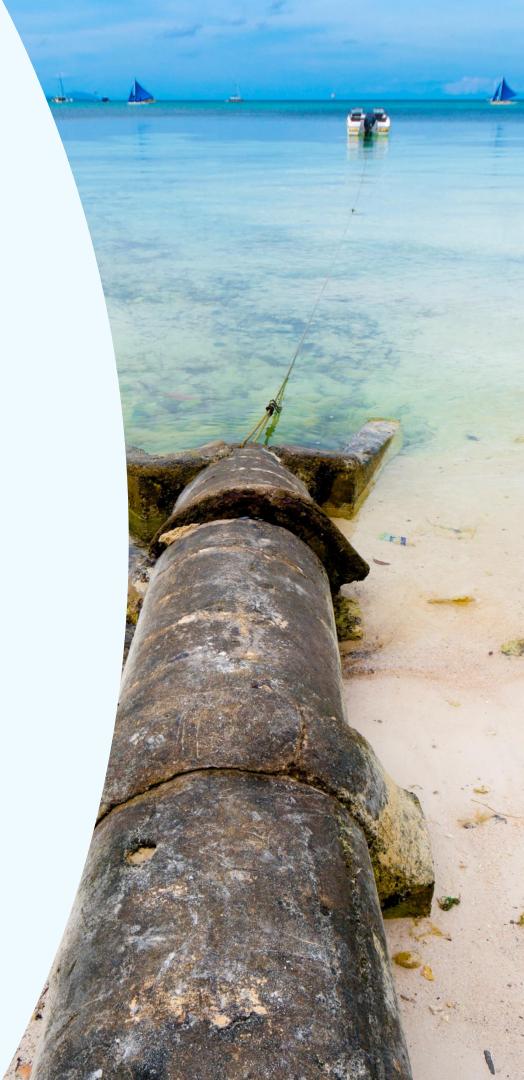






Innovative Finance Mechanisms for Sanitation

- Global Fund For Coral Reefs deploys catalytic grants and investments to implement market-based solutions that address the causes of ecosystem stress and degradation
- Ocean Risk and Resilience Action Alliance- multi-sector collaboration connecting the international finance and insurance sectors, governments, multilateral organizations, civil society, and local partners to pioneer finance and insurance products that incentivize investment into coastal and ocean resilience,
- **Green Climate Fund** Accelerates transformative climate action in developing countries through a country-owned partnership approach and use of flexible financing solutions and climate investment expertise.





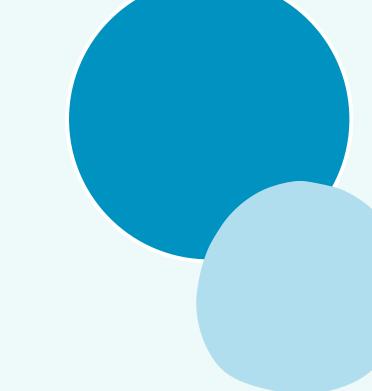




WCS.ORG/WATER-POLLUTION

Session 4

WASH in Institutions & Sector Updates



Q&A and Discussion

Outlook and Closing Remarks



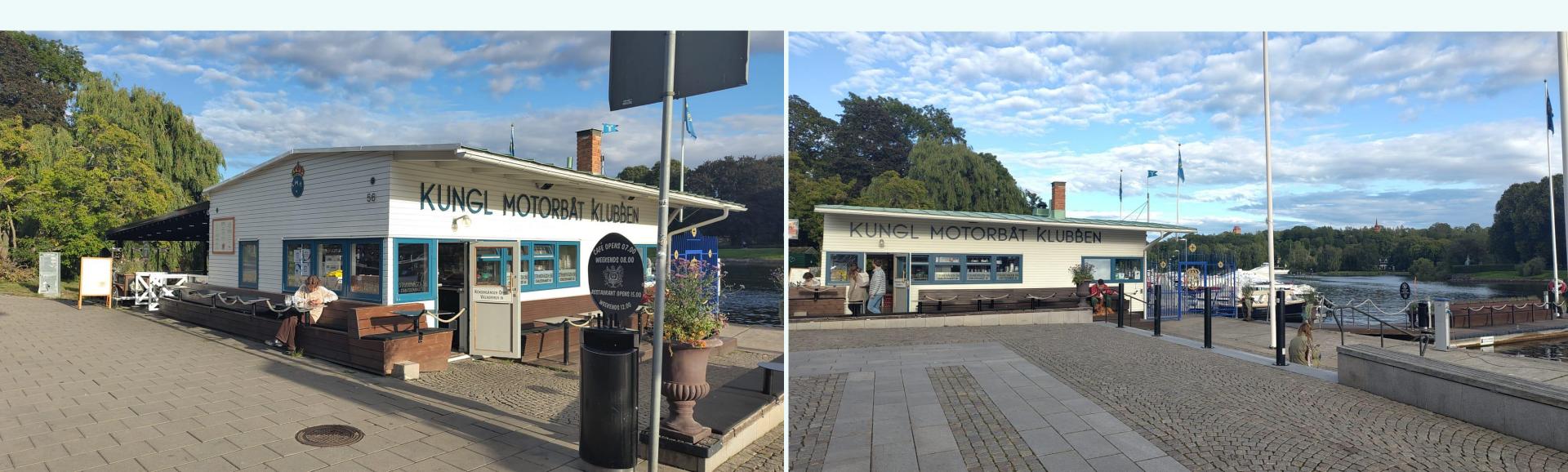
Barbara Evans



Arne Panesar

17:00 - 19:00 Mingle at SEI

from 19:30 Joint dinner at Strandvägen 56



How to reach "Strandvägen 56" restaurant

