

WEBINAR SERIES

Water Utility Engagement in Urban Sanitation

WEBINAR #01



Enriching Life

organized by



Webinar Series on utility engagement in sanitation

Co-conveners



African Water and
Sanitation Association
Association Africaine de
l'Eau et de l'Assainissement



sustainable
sanitation
alliance



UN-HABITAT

AquaFed



Objective

Facilitate the exchange of knowledge, experiences and lessons learned among water operators across Africa, showcasing diverse case studies and approaches to improving urban sanitation access.

WEBINAR #01

From challenges to successes - Kenyan Water Utilities' Sanitation Transformation in Nakuru and Malindi



DATE
13 Sept, 2023



TIME
12:00 - 13:00 CEST



ONLINE PLATFORM
MS TEAMS



LANGUAGE
English and French



MODERATOR

Chaiwe Sanderse -
SuSanA Africa
Chapter



SPEAKER 1

Zaituni Kanenje - Nakuru
Water and Sanitation Services
Company - NAWASSCO



SPEAKER 2

Priscillah Oluoch - Malindi
Water & Sewerage
Company Ltd - MAWASCO

WEBINAR #01

From challenges to successes - Kenyan Water Utilities' Sanitation Transformation in Nakuru and Malindi

Agenda

Nr	Time	Input	Speaker / Moderator
1	15min	The Sanitation Journey of Nakuru Water and Sanitation Services Co	Zaituni Kanenje
2	15min	The Sanitation Journey of Malindi Water and Sewerage Co Ltd.	Priscillah Oluoch
3	25min	Q&A followed by an open discussion	Chaiwe Sanderse
4	5min	What's next?	Ajith Edathoot

Webinar series on utilities and sanitation



Enriching Life

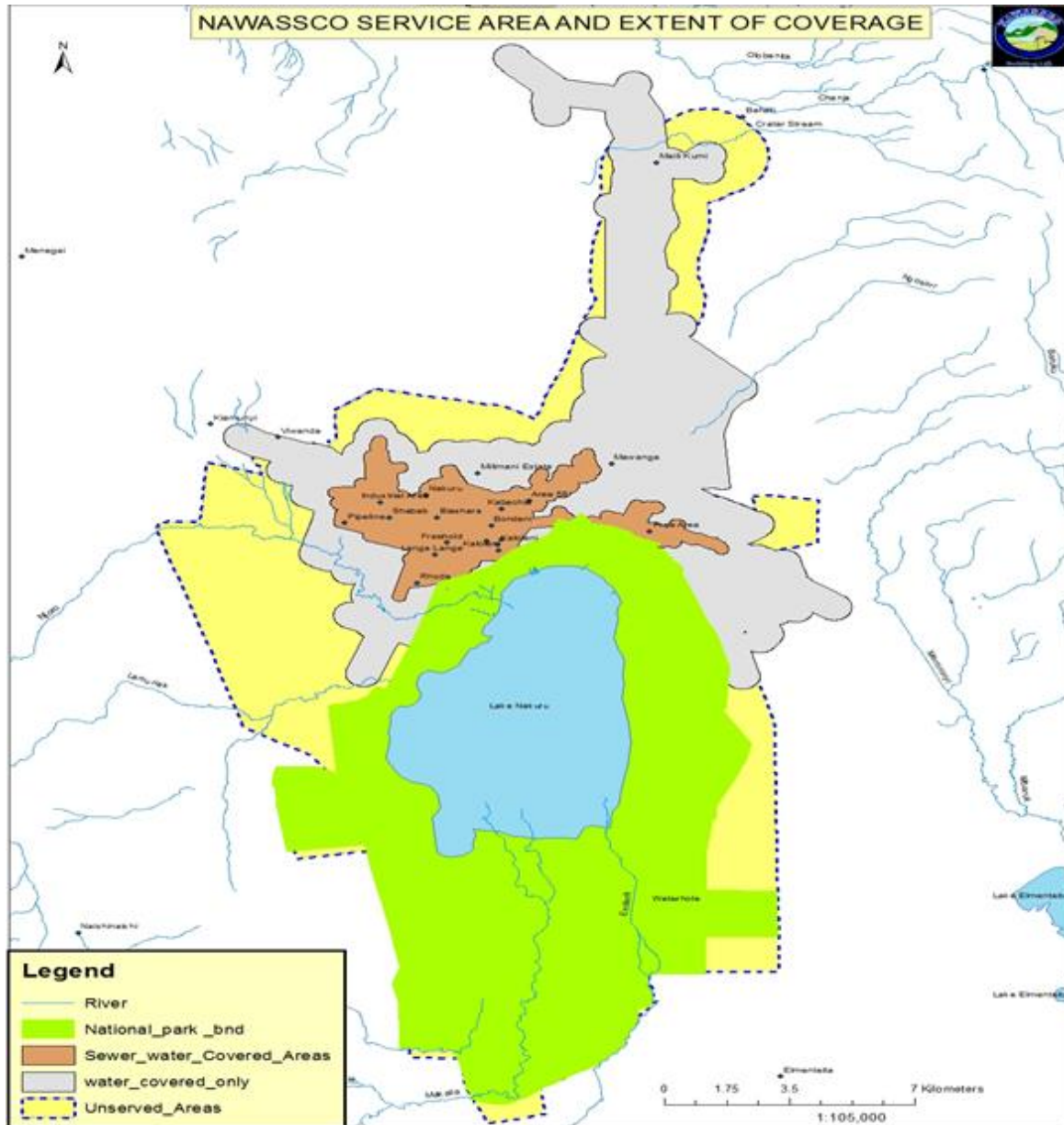
Nakuru Water and Sanitation Services Co

Presentation by:

Zaituni Kanenje - Low Income Consumer's Manager - Nakuru Water

ABOUT NAWASSCO

<https://ackuruwater.co.ke/service-area/>

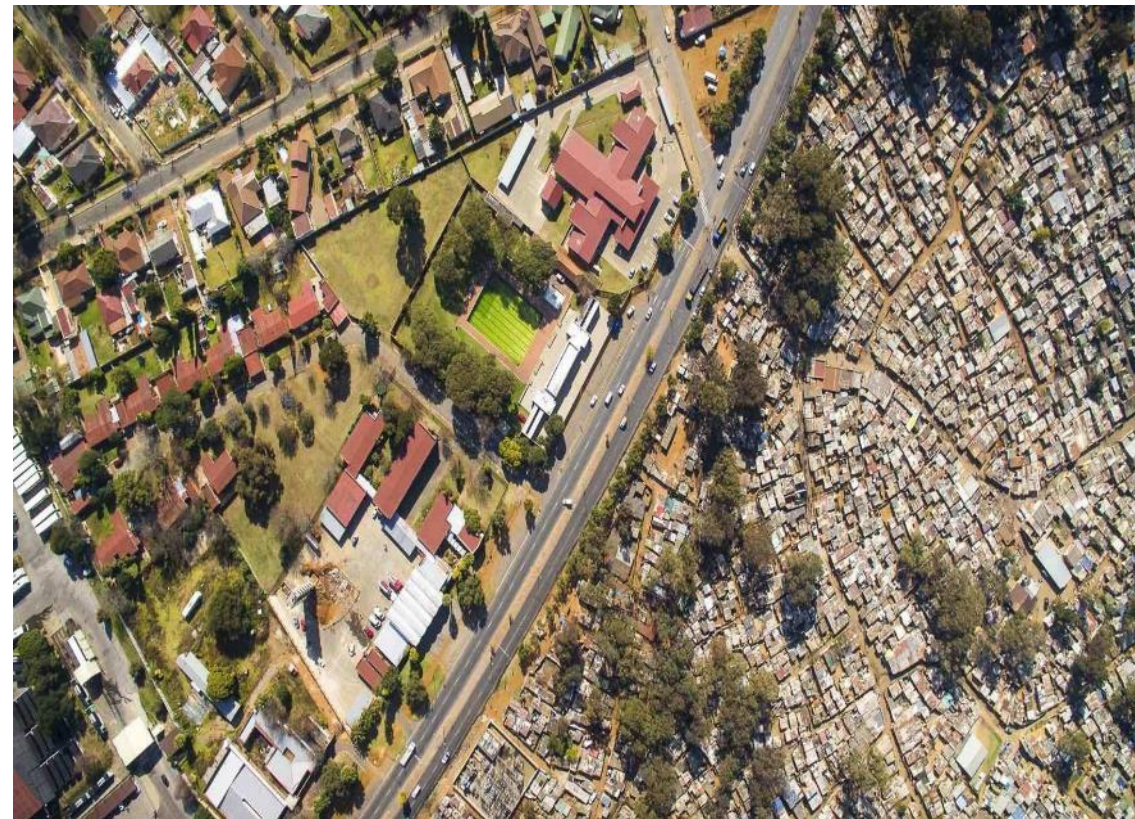


- Nakuru City's estimated population is 552,420
- Maintaining a sewer line of approx. 200Km with 18,000 sewer connections serving about 29% of the population.
- 71% of the population dependent on various on-site sanitation solutions.
- In the city of Nakuru, Kenya, there is a shared understanding among decision-makers of the urgent requirement to bridge the sanitation data gap.

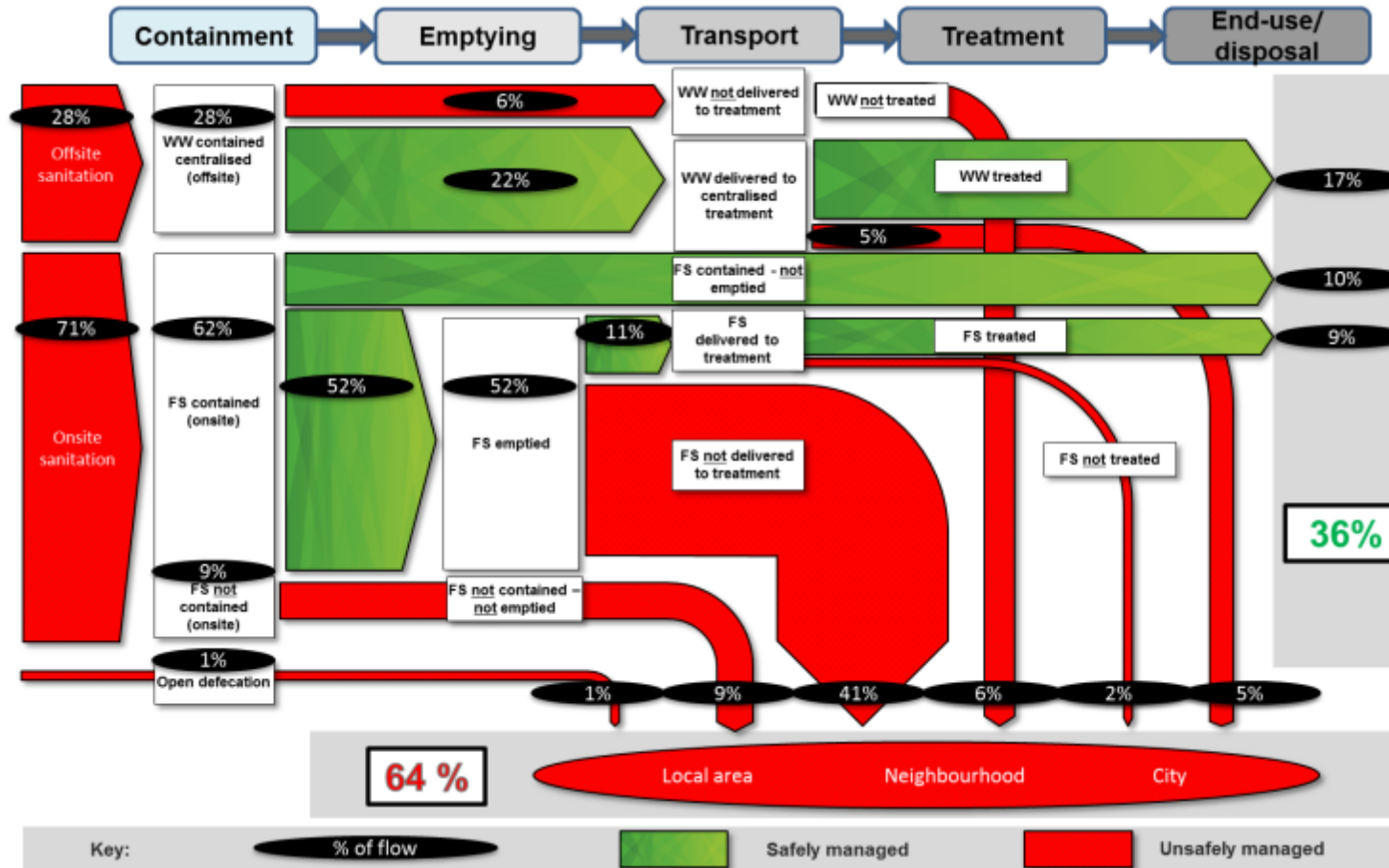
Low income settlement in Nakuru



Rapid Urbanization and Service Inequalities



Sanitation situation in Nakuru



BARRIERS TO INCLUSIVE URBAN SANITATION

- Limited political-will
- Weak policy, regulatory and enforcement mechanisms
- Inadequate public participation



- High urban population growth



- Rapid expansion of informal/ low-income communities with poor service coverage and quality is increasing urban inequalities

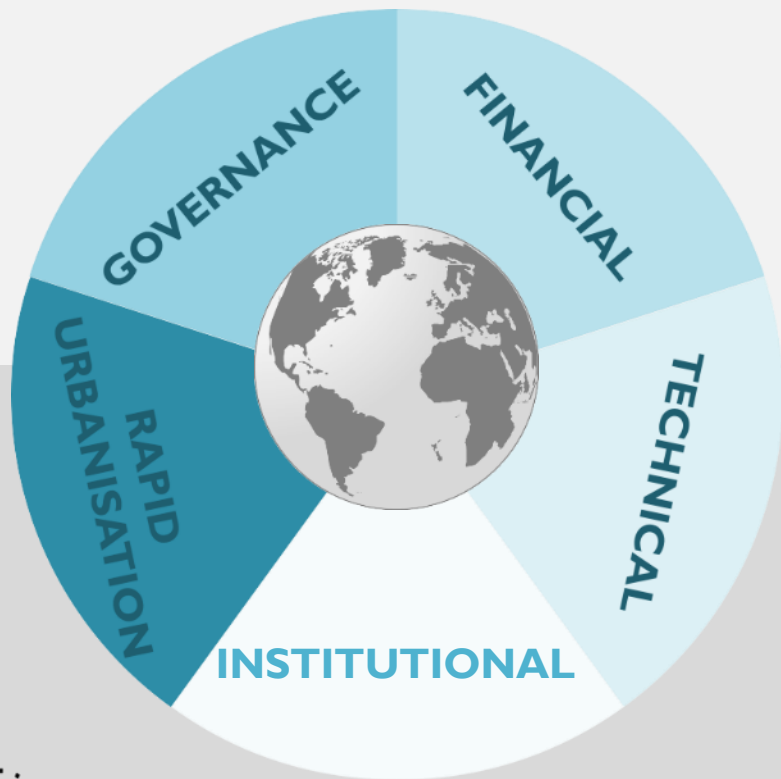


- Unclear mandates, responsibilities and accountability mechanisms
- Inadequate capacity (human and financial resources) to deliver effective and efficient citywide



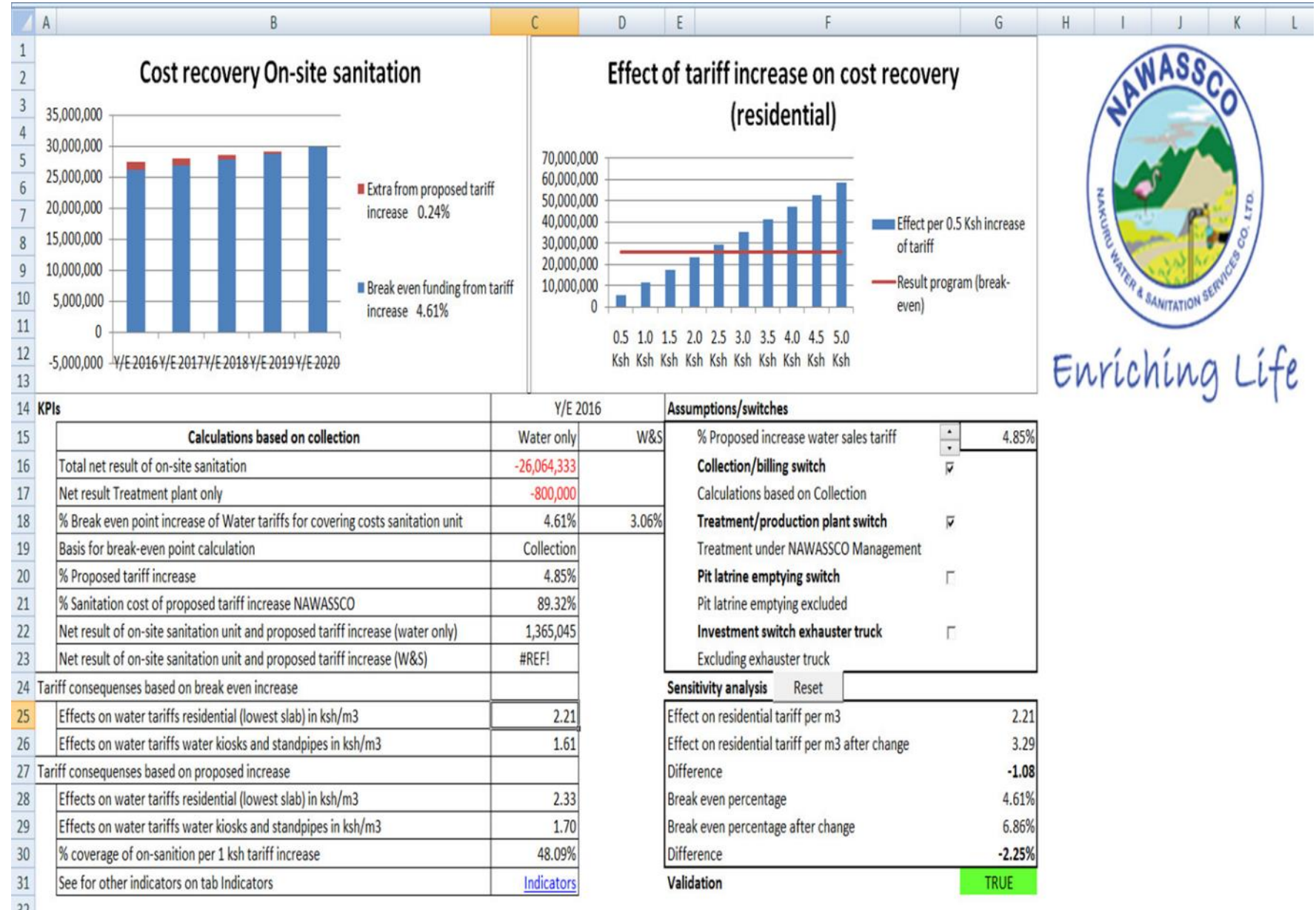
- Limited diversification of existing and potential funding sources
- Inadequate financing for Non-sewer sanitation services that serve majority of the urban population
- Limited involvement, low incentives and inadequate enabling environment for private sector financing
- Lack of, or low-cost recovery mechanisms for urban sanitation services

- Inadequate technical capacity
- Focus on technical and infrastructure solutions with limited prioritization of inclusive citywide services
- Limited scaling of resource recovery and end-use technologies
- Poor operation and maintenance of sanitation systems



NAWASSCO FINANCING ONSITE SANITATION

- Household financing at containment
- Government/donor subsidies at containment
- Tariff adjustment from conveyance to safe disposal
- Partners support on innovations
- Resource recovery and re use



Enriching Life

Sanitation Practices before

Traditional pit Latrines



Manual emptying



Disposal in the rivers



Sanitation marketing through collaboration with WASH actors



FS Emptying/Conveyance: What has been developed?

A waste collection system developed which:



Emptying



Well equipped and trained MEs

From informal to formal

Removes waste safely

Eases the workload,

Reducing hauling distances

Provides clean collection points

CURRENT TECHNOLOGIES FOR PIT EMPTYING

- Waste is collected at the households by the Mechanical desludging unit (MDU) or the pupu pump or Gulper and then transferred to the Primary Collection Point (PCP) which is then transported to the treatment plant for recycling



TECHNOLOGIES USED FOR PIT EMPTYING



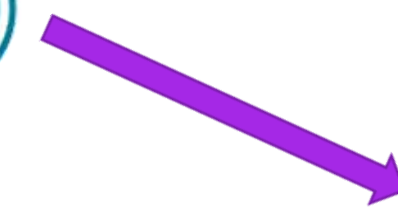
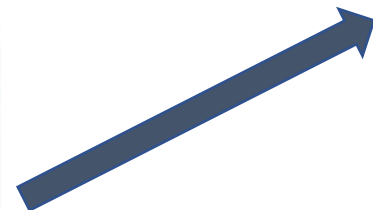
GULPER

PCP



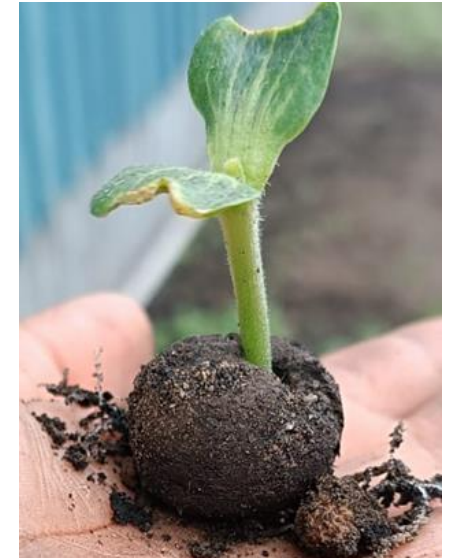
From house to house/home

MakaaDotcom
Briquettes



CAPTURE CONTAINMENT EMPTYING TRANSPORT TREATMENT SAFE REUSE OR DISPOSAL

IkoMizizi Seed
balls



Webinar series on utilities and sanitation



**MALINDI WATER &
SEWERAGE CO. LTD**

Priscillah Oluoch
Head of Sanitation, Mawasco
13th September 2023

OUR MANDATE

Water and Sanitation Services



Total Population	-	540,000
Population served	-	430,000
Water Coverage	-	72%
Sewerage Coverage	-	0%

To provide adequate quality water and proper sanitation services to customers in the most efficient and affordable way

Malindi is known for its beautiful beaches. However, the existing Wastewater Master Plan **only addresses 35% of the population**, leaving most of the city without a plan for sanitation services. The CEC & Mawasco recognized that environmental tourism is a driving force of Malindi's economy, and that they couldn't risk **polluting the environment**.

+ 300,000 residents

Relied on onsite sanitation

No sewer connections and no waste treatment.

+ 25%

Safely managed waste leaving 75% untreated.

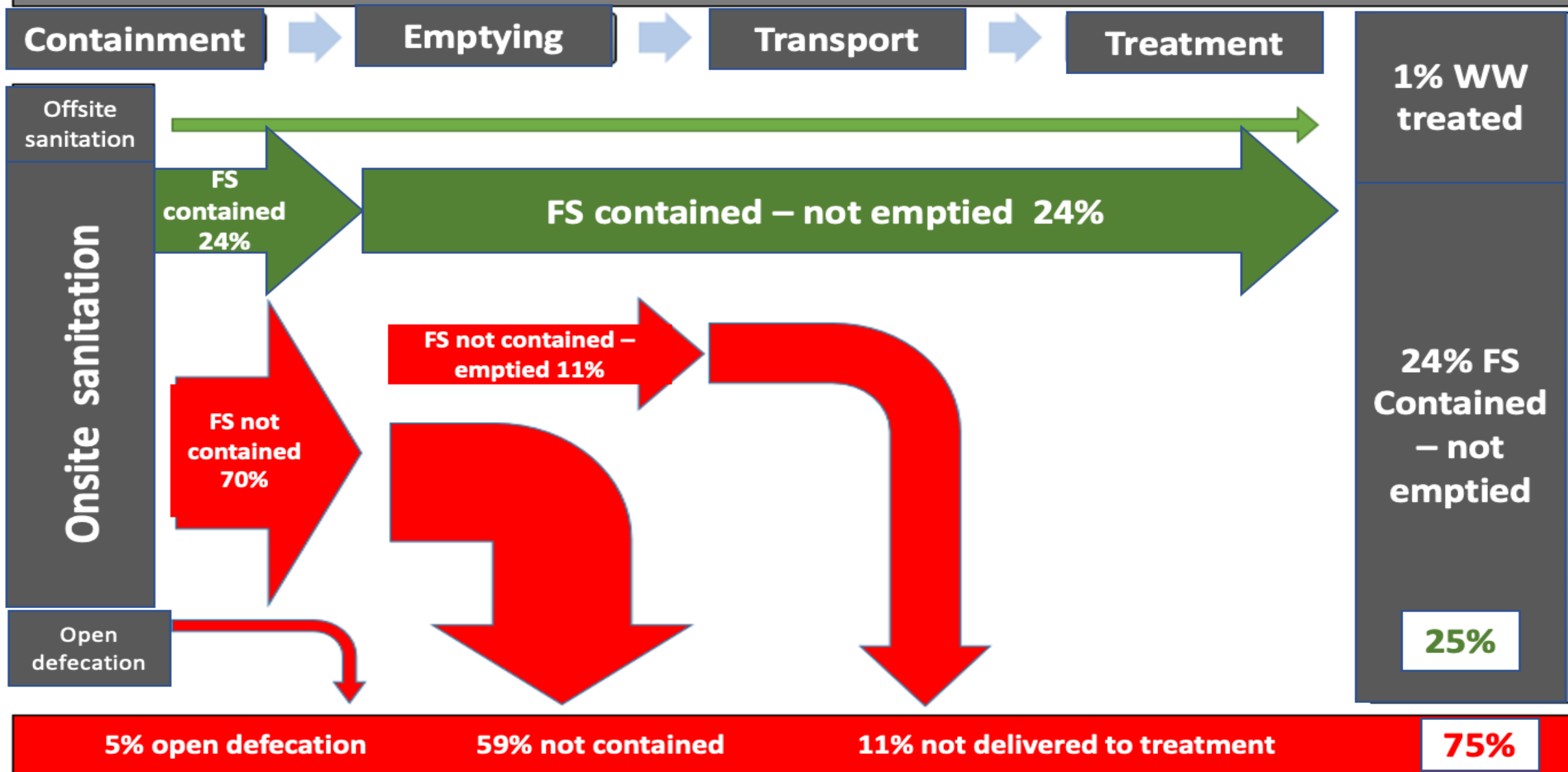
+ 3.4%

Population growth expected per year.

Malindi

CHALLENGE:
SAFE WASTE
MANAGEMENT





Key: FS: Feecal Sludge



Safely managed



Unsafely managed

A multi-sectoral planning Approach

Malindi Water created a **city-wide inclusive sanitation and investment plan** in partnership with County government WSUP and Sanivation.



"Fecal sludge management is our mandate."

Gerald Mwambire
Managing Director at Malindi Water

+
\$95 million

Investment in sanitation outlined



WSUP | Water & Sanitation
for the Urban Poor



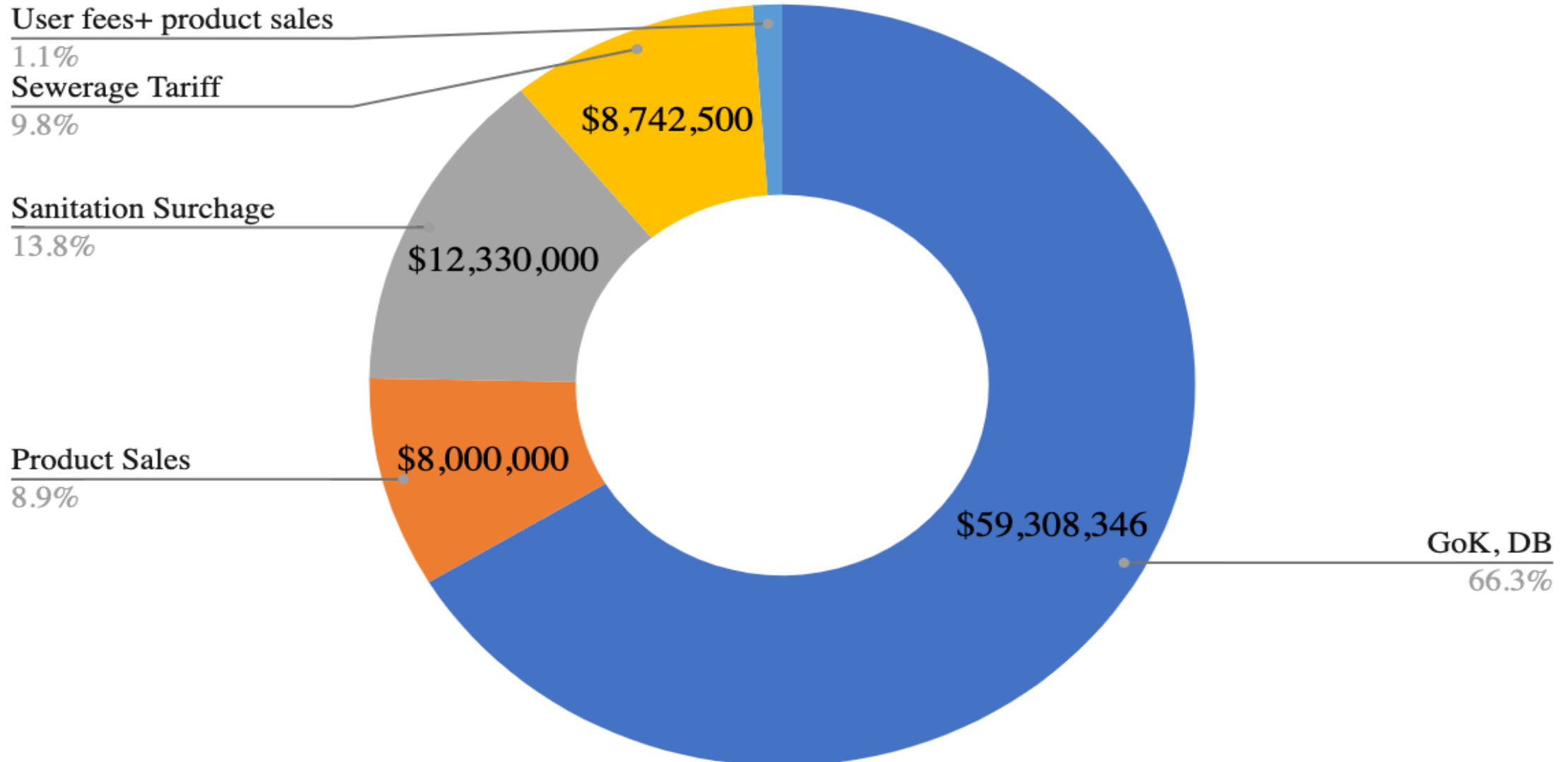
eawag
aquatic research



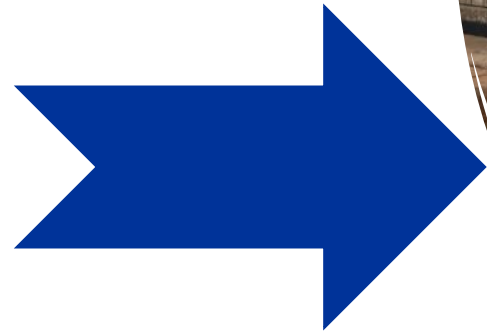
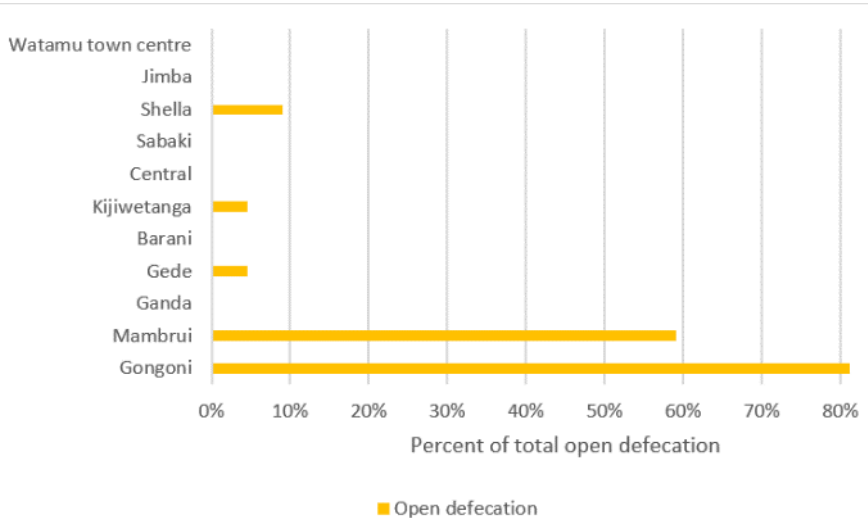
Blended Financing to get to >80% Safely Managed Sanitation



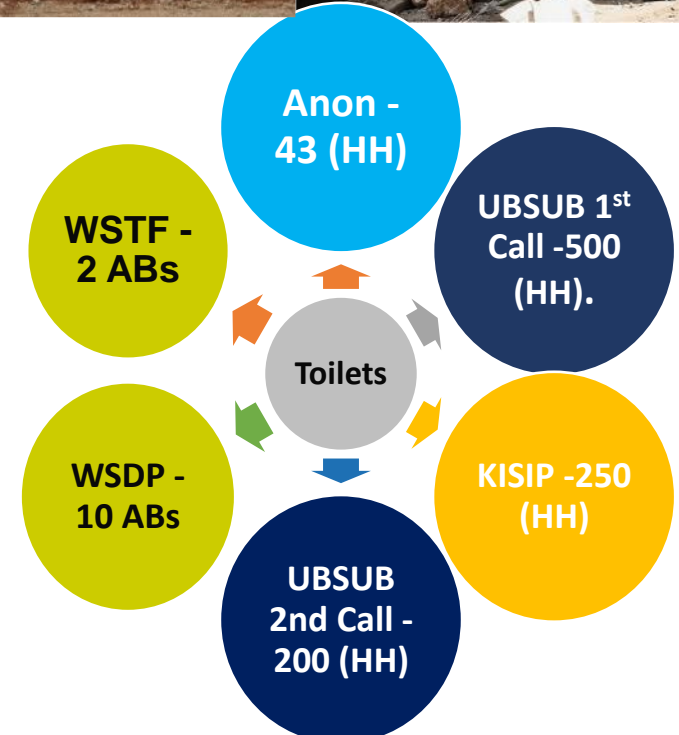
SUM of Projected Cost vs. Source of Funds



Containment



- User Fee
- Public investment
- Household Investment
- Grant funding



Waste Collection



Waste Collection



- User Fee
- Grant funding
- Mawasco budget



Treatment and Reuse



Treatment and Reuse: Waste to Value Plant



FINANCING
DEVELOPMENT PROJECT N OF
THE REPUBLIC OF KENYA
CO-FINANCED BY
THE WORLD BANK

CONTRACT
CONSTRUCTION OF FAECAL SLUDGE
TREATMENT PLANT IN WATAMU
TOWN - LOT 3B
CONTRACT NO. KE-MAWASCO-236797-CW-RFB

CLIENT
MANAGING DIRECTOR
MALINDI WATER AND AND SEWERAGE COMPANY
(MAWASCO)
P. O. BOX 410-80200, Malindi- Kenya

CONSULTANT
S G I STUDIO GALLI INGEGNERIA IN JOINT VENTURE WITH Design Master Plan
P. O. BOX 584380-80200, Malindi - Kenya

CONTRACTOR
PINNIE AGENCY LIMITED
P. O. BOX 104080-00100, Nairobi- Kenya

LICENSES
NEMA LICENSE NO: EIA/PSL/16243
NCA REG NO: 6921/W/0214

ZERO TOLERANCE
FOR SEXUAL EXPLOITATION AND ABUSE

STOP THE SPREAD OF COVID-19!
FACIAL COVERING PLEASE WEAR MASK!
KEEP YOURSELF AND OTHERS SAFE!



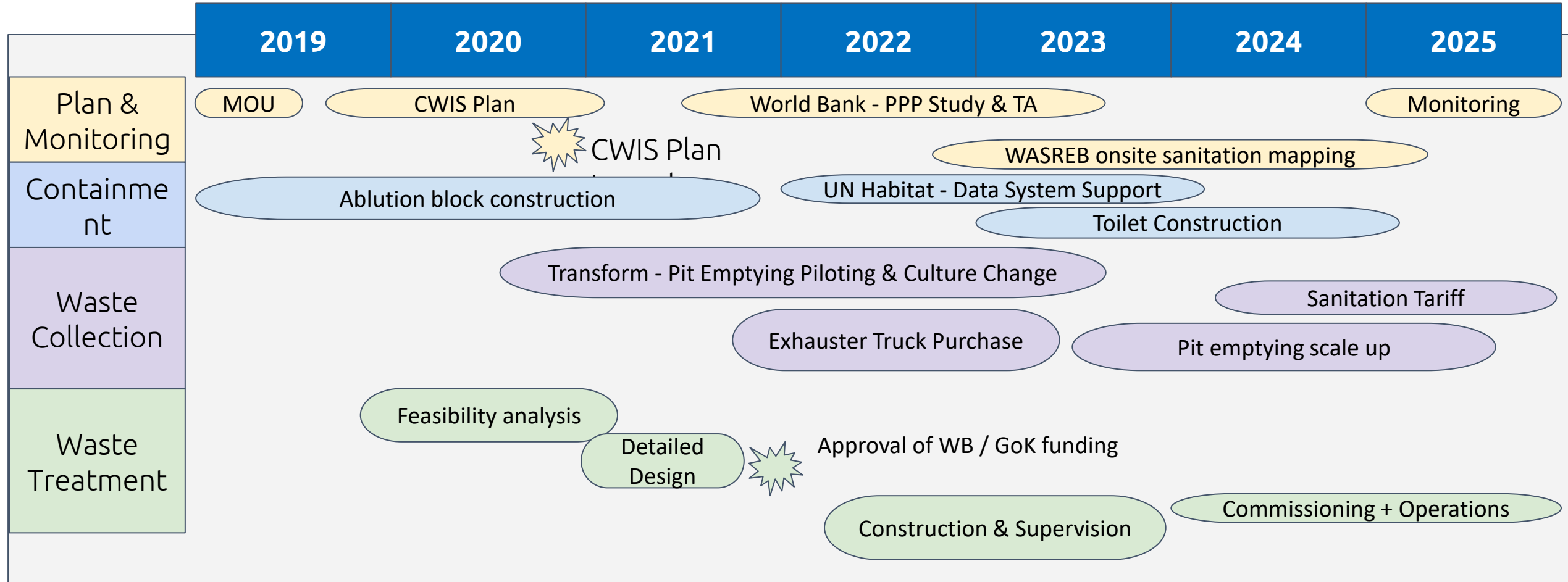
• \$8M Public Funding

Cross Cutting issues

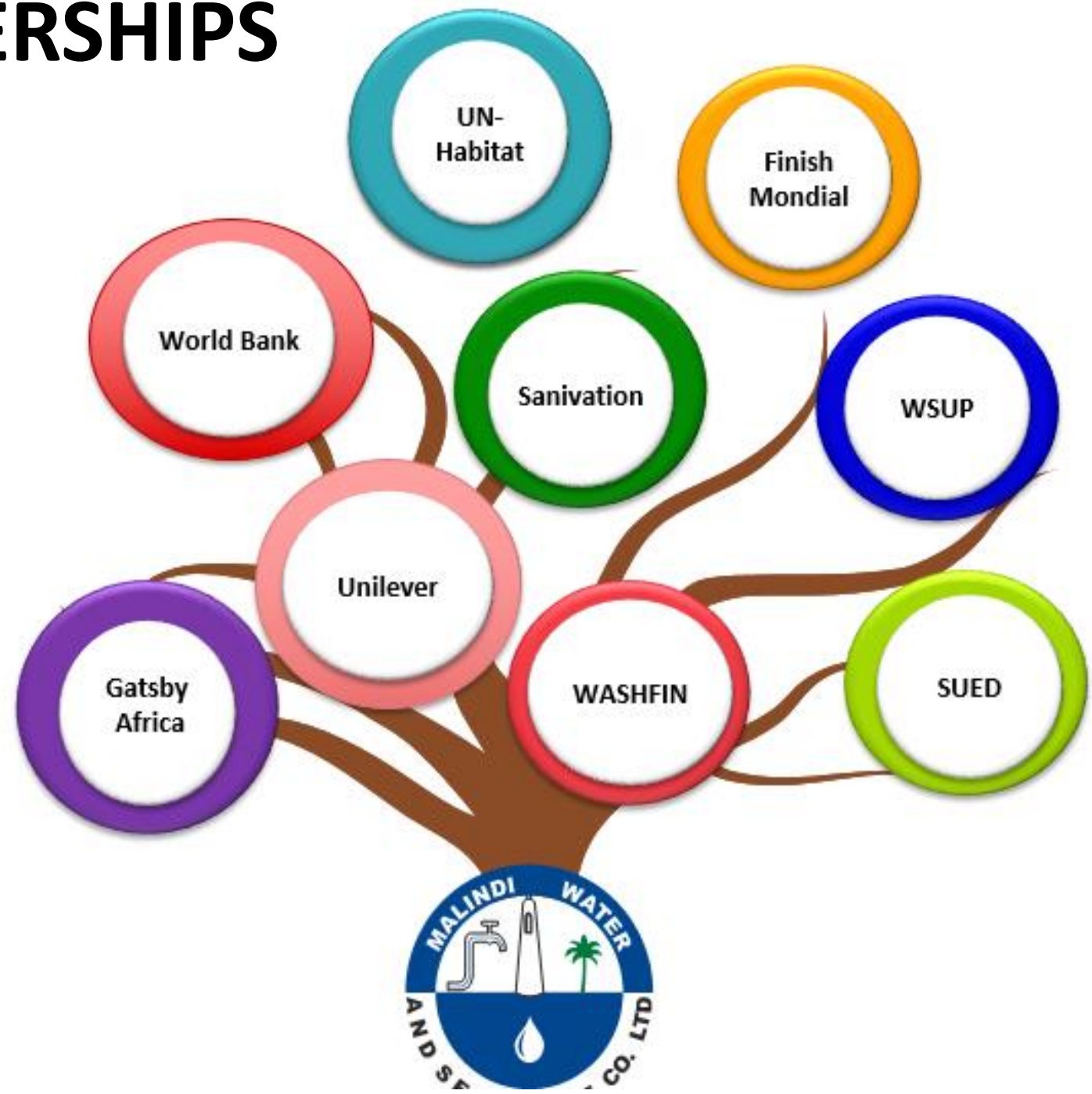


- ✓ Dedicated sanitation function in the utility
- ✓ Marketing and behavior change approach
- ✓ Effective partnerships with the County Government
- ✓ Monitoring and Evaluation systems

MALINDI SANITATION JOURNEY SUMMARY



CROSS SECTOR PARTNERSHIPS



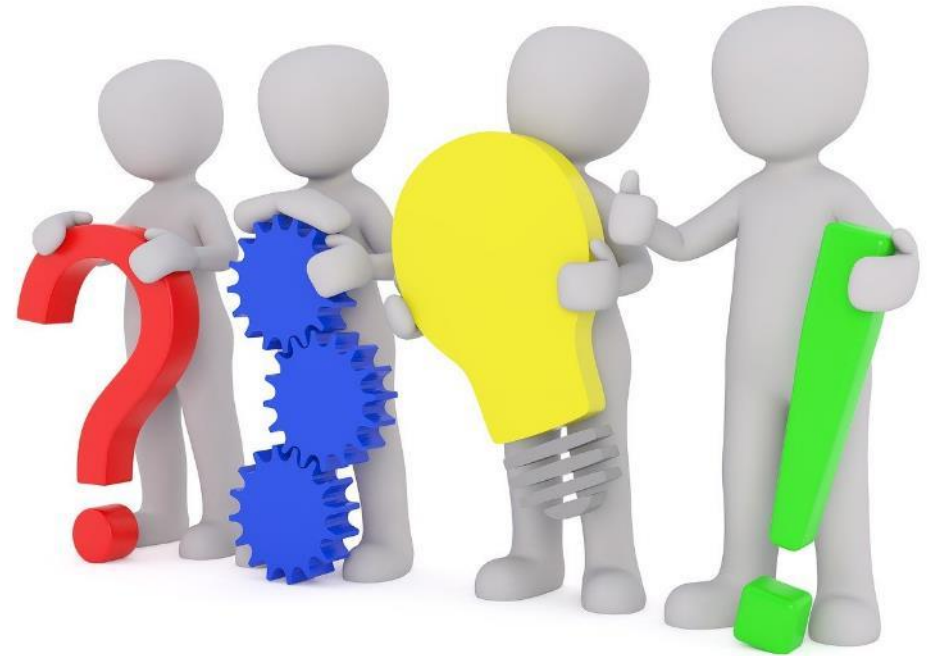


Thank You

Q&A

-

Open Discussion



Webinar Series on utility engagement in sanitation

Calendar

Webinar	Speakers	Date
WEBINAR #01: From challenges to successes - Kenyan Water Utilities' Sanitation Transformation in Nakuru and Malindi	NAWASSCO and MAWASSCO in Kenya	Wednesday 13 September 12:00 – 13:00 CEST
WEBINAR #02: Managing sanitation effectively: two models of national utilities in Senegal and Burkina Faso	ONEA in Burkina Faso and ONAS in Senegal	Wednesday 25 October 12:00 – 13:00 CET
WEBINAR #03: Innovative alliances for advancing on-site sanitation - Water utilities partnering with CBS private service providers	Sanergy in Lusaka and Kisumu and CleanTeam in Kumasi	Wednesday 22 November 12:00 – 13:00 CET
WEBINAR #04	Case studies from Nigeria, South Africa, Mali, Zambia, Tanzania	Wednesday 24 January 12:00 – 13:00 CET
WEBINAR #05		Wednesday 21 February 12:00 – 13:00 CET

Webinar Series on utility engagement in sanitation

How to follow-up and get involved



- Through the [SuSanA Africa Chapter](https://forum.susana.org/) and the dedicated [Forum discussion thread](https://forum.susana.org/)

SuSanA Forum



Global WOPs
Community



- Through the WOPs Sanitation COP

FSM toolkit



AfWaSa



- Through the FSM Alliance's toolkit around non-sewered sanitation



- Stay tuned for information about the AfWaSa's specialist group to work with peers from utilities