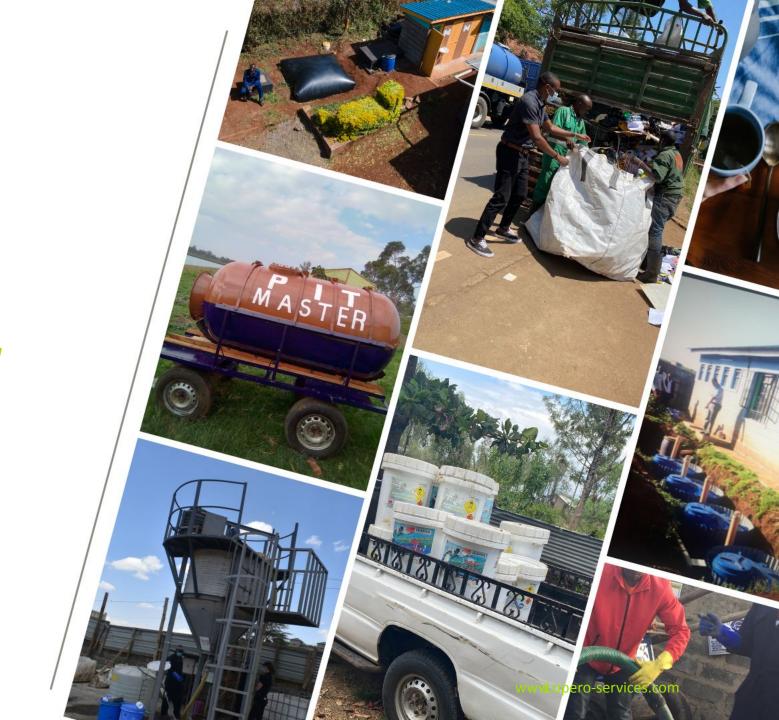


OPERO

Scaling WASH Enterprise and Innovation

Project Portfolio

www.opero-services.com





OPERO Offerings

Founded in 2019, OPERO Services is an **engineering and business development firm** that offers practical expertise in **water**, **sanitation and hygiene** technologies and business models that work in the East African context.



Scaling WASH Innovation



Scaling WASH Enterprise



Market research



Clients & Partners







































Core Team



Nicola Greene Director



Patricia Omondi
Project Support & Learnings



Robert Gitachu
Business Development
Lead



Aggrey Osogo Operations Lead



Edwin Mariita Technical Lead



Lisa NgoweAdmin & Finance



Jeff Walcott Startup Business Consultant



Stacy Oduk
Sanitation Business
Development



\$

\$1,100,000
Facilitated investment in WASH businesses



17
WASH enterprises trained

Our Impact



Projects successfully completed



WASH Business Accelerator Designed and Delivered



New & existing WASH technologies designed & tested



Increased
Access to safe water & sanitation systems

www.opero-services.com





PuPu Pump

A small scale, mobile sludge pump. www.pupupump.com

Year: 2022-2023

Client: PRACTICA

Highlights

- Field testing of the technology in Kisumu using manual pit emptiers
- Market insight and product improvement support to position for larger scale deployment to the East African market
- Standardized testing and information dissemination under the sanitation technology centre









Humanitarian Sanitation Solution

A modular human waste treatment system for use in humanitarian settings

Year: 2022 -2023

Client:



ETH4D

Highlights

- Installation of a pilot under the WASH Technology Hub in Kisumu, Kenya
- Monitoring the performance of the treatment line
- Optimization of the treatment unit by integrating the user experience feedback into the design
- Expansion to live trial in Uganda









Honey Dipper

A technology that automatically and incrementally extract & dries waste from pit latrines for safe and cost-effective transport

Year: 2021/22

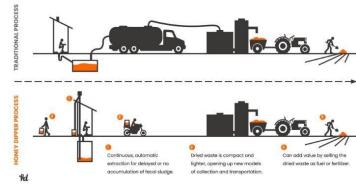
Client: FACTOR [e]

Project Highlights

- Installed and tested the technology in Kisumu, Kenya under the Sanitation technology centre
- Technical feedback on product improvement
- Market research and sizing to determine suitability of the technology in the Kenyan market



INNOVATING ON THE SANITATION VALUE CHAIN









Green Latrine

Efficient and low-cost solution for treating effluent and leachate from domestic sources using Vetiver grass

Year: 2021

Client:

FINISH MONDIAL

- Installation of a pilot in Busia, Kenya
- Monitoring the performance of the treatment line
- Development of design manual and M&E framework
- Expansion to launch as product in Western Kenya









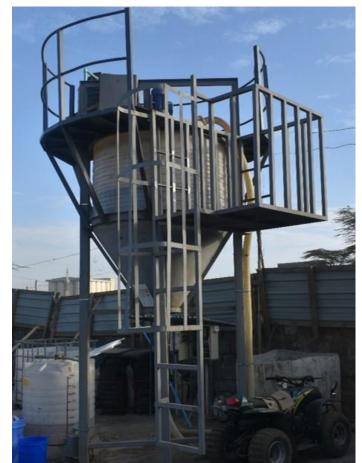
Dewatering Test Rig

A simple and low cost fecal sludge dewatering rig.

Year: 2019 -2021

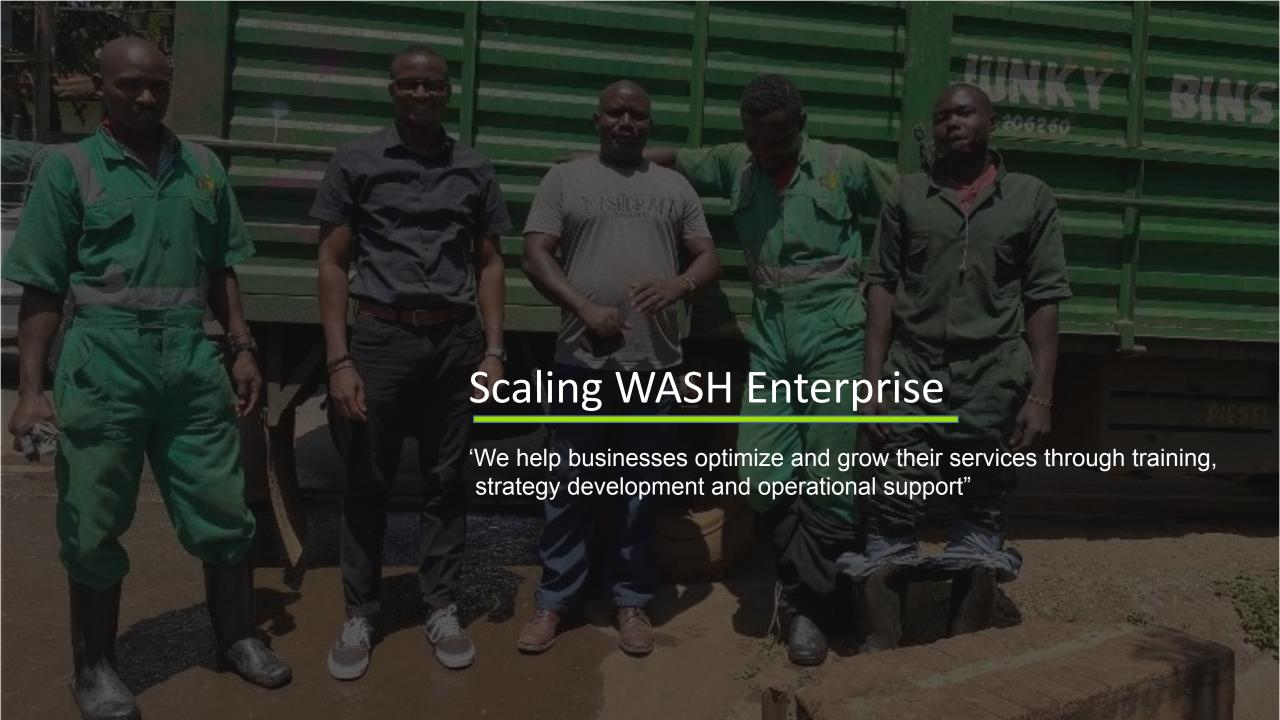
Client: SANERGY

- Designed and installation a dewatering trial process for fecal pit latrine sludge
- Conducting of sludge dewatering trials
- Guided dewatering research and decision making strategy











Sanitation Enterprise Centre

A centre that aids in the training, launch and growth of service providers increasing safe access to emptying and transport of faecal waste.

Year: 2021-

Highlights

- Worked with sanitation enterprises to enhance their operations & customer base
- 70,000 + people serviced
- Purchase of vehicle and innovative pump for private sector under lease to won model









WAKE UP Accelerator program

A business accelerator program providing concerted, sector and context-specific business development support for scaling-up WASH & water resource management (WRM)businesses in Kenya.

Year: 2021

Partners:





- 10 WASH businesses trained
- \$1.000,000 raised to support the 2021 cohort
- Enterprises connected to investors















Rural Water Accelerator

A business accelerator program providing concerted, sector and context-specific business development support for scaling-up rural water businesses in Kenya and Uganda.

Year: 2023

Partners:









- 9 businesses with focus on rural water supply accelerated
- Cross country collaboration Kenya, Uganda
- Climate emphasis





Sanitation Accelerator

A business accelerator program providing concerted, sector and context-specific business development support for scaling-up sanitation businesses in Kenya and Uganda.

Year: 2023

Partners:









- 10 sanitation businesses accelerated
- Cross country collaboration Kenya, Uganda
- Goal to reach 250,000 people with improved sanitation products and services







Alternatives for Non Sewer Sanitation Systems

A countrywide assessment of Public-Private Partnership (PPP) models for non-sewer sanitation (NSS) services.

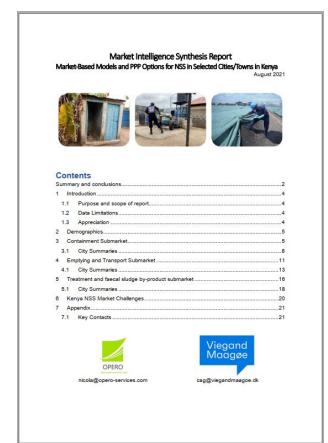
Year: 2021-2022

Clients:





- Development of 5 Market Intelligence Briefs
- Recommendation on potential PPP business models across 5cities in Kenya
- PPPs to be implemented starting in Malindi (2023)









On-site Sanitation Learning Series

Development of a knowledge base of on-site sanitation technologies to enable service providers, practitioners, and policy makers alike to select, trial and implement the technologies that are most technically and financially appropriate for their context.

Year: 2023-



Highlights

Development of high quality communication and learning materials for the Gulper and PuPu pump









Fecal Sludge Treatment Review

A technology selection matrix for managing faecal sludge.

Year: 2021

Client: SANERGY

- Guided the strategy for sludge treatment, disposal and reuse.
- Developed recommendation of systems & technologies for fecal sludge treatment sites in Nairobi.









Sanitation Market Assessment of Western Kenya

A market research study to understand the faecal sludge management chain in Western Kenya

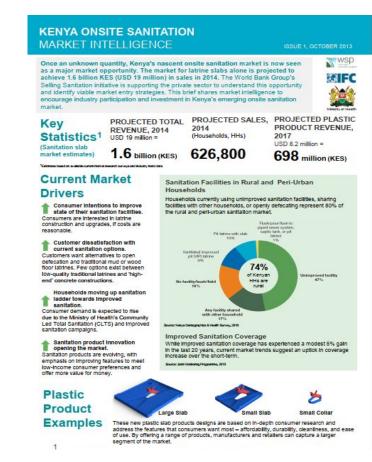
Year: 2020

Clients:



Project Highlights

 Development of a report with recommendations for interventions to enhance market-based approaches to sanitation provision in the region.









Scaling WASH Enterprise & Innovation

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