

REVOLUTIONIZING SUSTAINABILITY IN WATER SERVICE DELIVERY

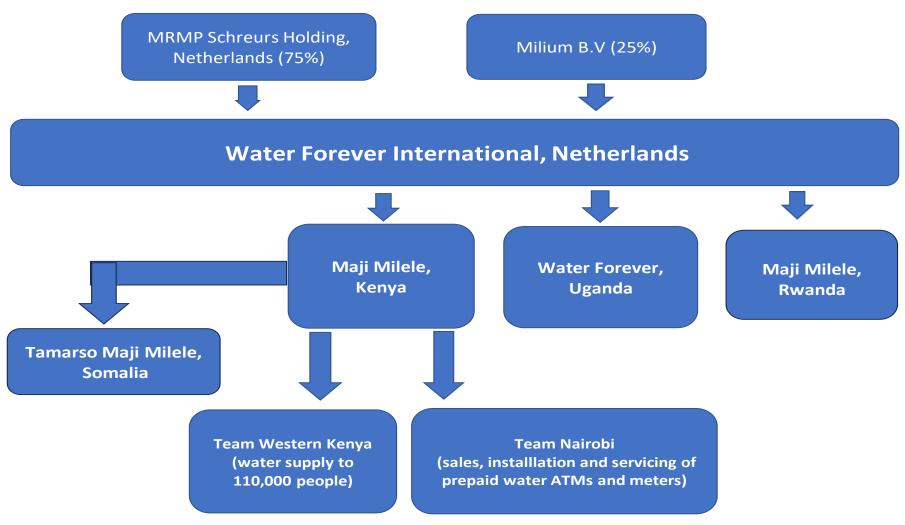
Increase your revenue with 50-200% and get access to data

Over 2,500 units installed in Kenya, Uganda, Rwanda





ORGANOGRAM WATER FOREVER INTERNATIONAL AND SUBSIDIARY COMPANIES





THE WATER CRISIS

The Challenge:

After 3-5 years 42% of water supply systems are non-operational

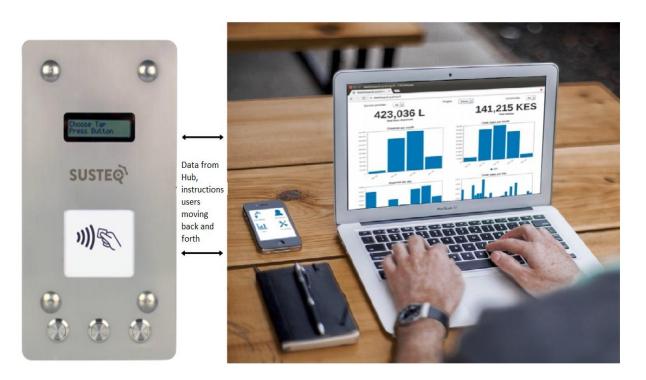
Main Causes

- Lack of revenue collection
- High Operating Costs
- NRW is 45% (urban) and 70% (rural). We reduce to <10%
- Lack of transparency



Our all-in-one solutions

- 1. Prepaid water ATMs for communal water points
- 2. Prepaid & Smart water meters for individual connections







1) PREPAID METERS FOR COMMUNAL USE



- No operator needed: SAVE Kes 100,000 per year
- 24/7 access to water
- Improved revenue collection
- Online monitoring
- SMS alerts in case of problems
- Remote control

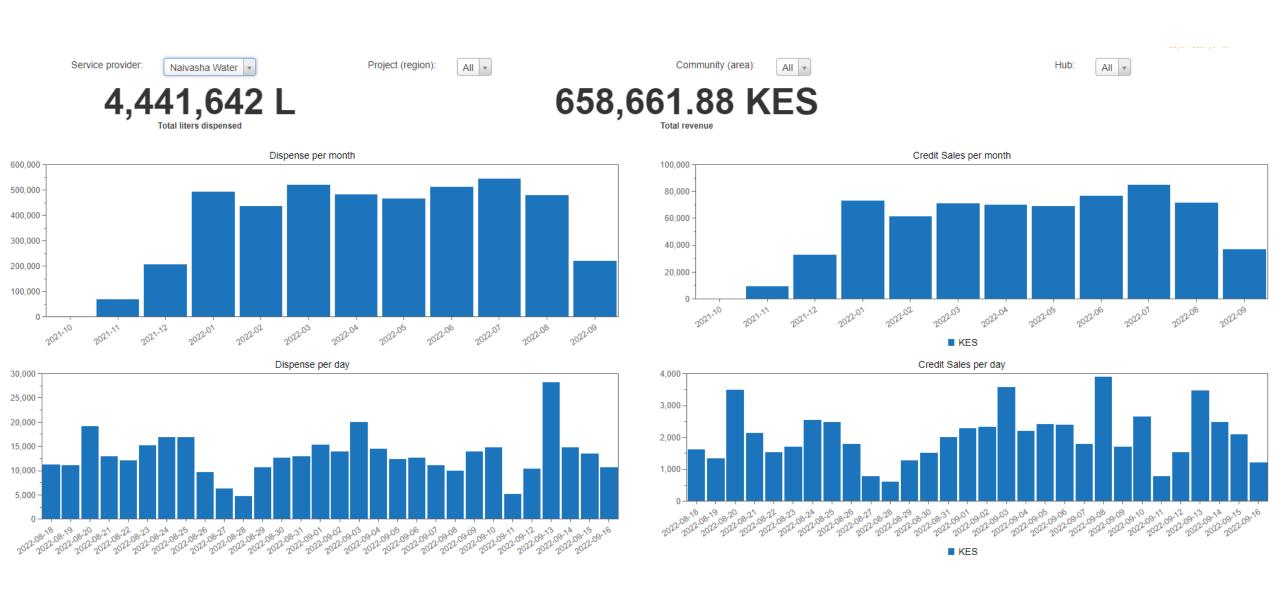


Data from
Hub,
instructions
users
moving
back and
forth



Online dashboard water ATMs





Water ATMs for communal use



Standpipe, Kampala, Uganda



Mini Kiosk, Siaya, Kenya







1 ATM - 2 WATER QUALITIES

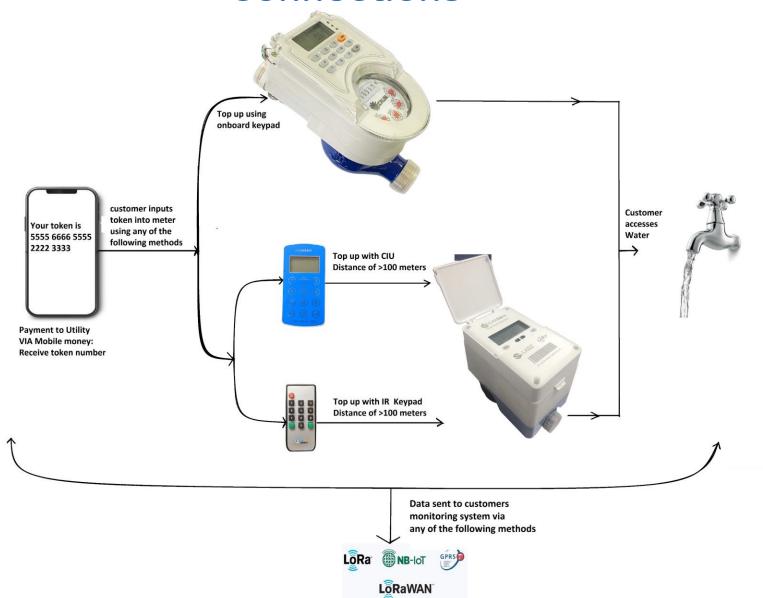
- One tap for non-purified water at a low price
- Another tap for purified water at a higher.
- Water purification at kiosk level

And: different taps for different customers

- ✓ Small tap for purified water
- ✓ Medium tap for low-demand customers
- ✓ Big tap for cattle troughs, water bowsers

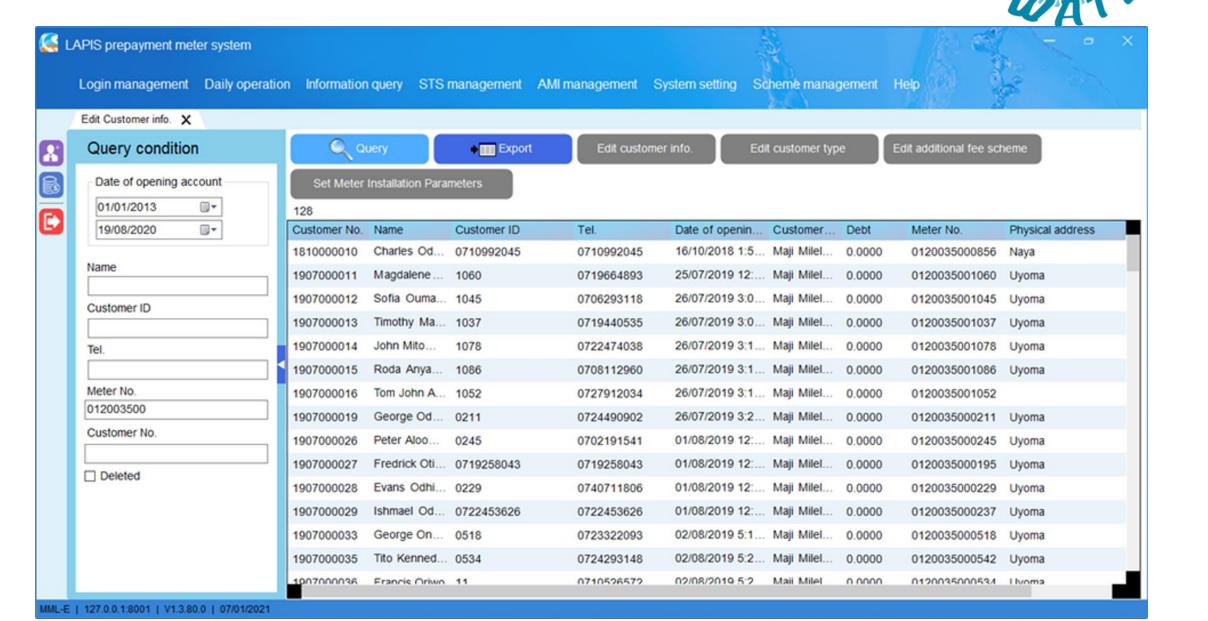
2) Prepaid & postpaid meters for individual connections





Dashboard meters for individual connections

forever





(LoRa) STS Prepaid Meter

- Collection of old debts
- Can collect other monthly charges like rent, service charges, tax, etc.
- 6-years battery life



GPRS/NB-IOT/Lorawan STS Prepaid Smart Meter

- Online monitoring & control function
- Automatic push of token to the meter





Integrated STS Prepaid Water Meter



- On-board keypad on the meter
- Mobile Payment integrated
- Plastic and brass version
- Can be made Smart via Lora/Lorawan

Split STS Prepaid Water Meter







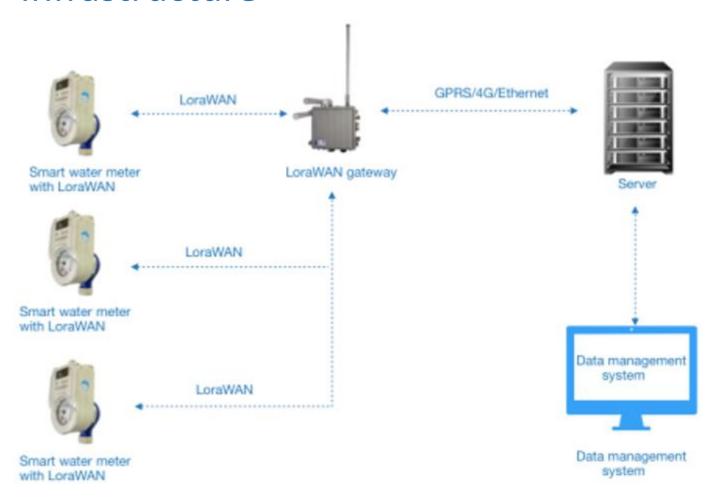
- Meter and CIU separated (CIU >150 meter)
- Mobile Payment integrated
- Plastic and brass version
- Can be made Smart via Lora/Lorawan

Smart Prepaid Individual Water Metering

- Remote automatic meter top up after token purchase
- Remote monitoring data
- Inbuilt leak detection ability
- LoRaWAN enables remote meter management efficiently (up to 5km radius)



LoRaWAN Prepaid Water AMI Infrastructure



forever

Bulk Prepaid and Postpaid Smart Watering



RF Lora Woltman STS Prepaid Bulk Water Meter

- Sizes: DN 32-150
- For bulk dispensing points, e.g. water bowser dispensing points and industrial consumers



Laison IoT MIU Woltman Postpaid Bulk Water Meter 1

Online monitoring data



Portable solar irrigation pumps for small holder farmers

Put the pump in a shallow well, stream or pond and let the sun do the work.



3 minutes video: : https://jacana.help/news/portable-solar-pump-for-small-scale-farmers

Key Features

- Powered by solar energy no fuel or electricity required
- Daily capacity: 5,000-11,000 liter per day
- Easy to install, carry, and maintain
- Suitable for rivers, wells, streams, and ponds
- Super portable. Use the pump today, rent it out tomorrow.
- Suitable for rivers, open wells, streams etc.
- Weight Approx. 15 kg (pump + panels + hose pipe)
- Requires minimal servicing, ensuring long-term reliability.

Portable Solar Pump Fasy watering Fasy to operate Fasy to carry Including 2 x 80 watt solar panels Technical Specifications



Maji Milele is also a Water Service Provider

Quick facts about Maji Milele as a WSP

- We provide water to 4 water schemes(90,000 people) in Siaya
 County
- We provide water to 1 water scheme (8,000 people) in Homabay county

Our prepaid meters in the media and in independent reports. Some web-links



KTN news

Marsabit Project: https://youtu.be/bPQEFg9Yjz4?si=tdhGyiqvh1xzo27j
Interview with MD Maji Milele: https://youtu.be/iCJboZOPBtM?si=pTzqCj-BiTxji6JQ

Dutch TV & Youtube

Company profile (7 minute) https://youtu.be/T1R50J5EAOc?si=gnmwv_WCwWob5RVw
Documentary (43 minutes, Dutch) https://www.youtube.com/watch?v=r27ohzvohd8&t=1290s
Prepaid water meters for individual connections www.youtube.com/watch?v=ExACcaKaHzE&t=89s

Literature on prepid water ATMs

Study: https://tinyurl.com/26t3rk4n

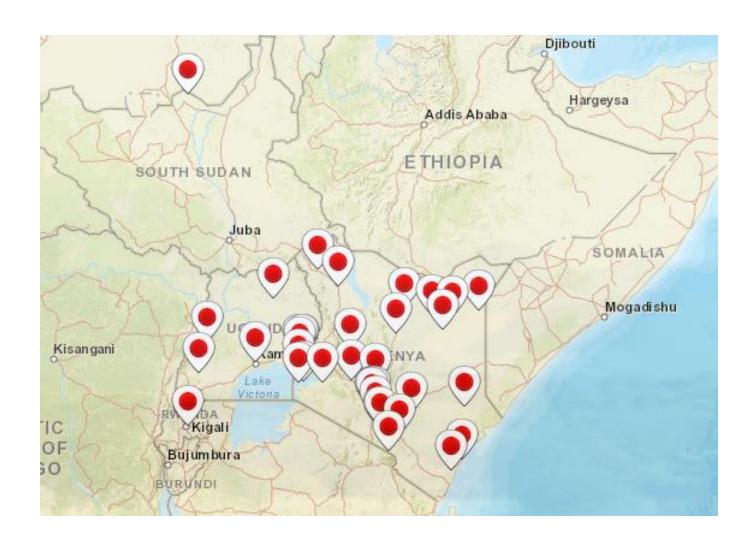
A short article: https://www.oxfamamerica.org/explore/stories/atms-can-now-dispense-drinking/

A short article: https://www.fh.org/2019/03/22/kenya-clean-water-atm/

Revenue recovery in Zimbabwe: https://allafrica.com/stories/202201180108.html

Where we work







Maji Milele is also a Water Service Provider

Quick facts about Maji Milele as a WSP

- We provide water to 4 water schemes(90,000 people) in Siaya
 County
- We provide water to 1 water scheme (8,000 people) in Homabay county

In Kenya































Outside Kenya











Thank you!

Marcel Schreurs, MD, +254-708386994, <u>marcel@water-forever.com</u> Kenneth Wendo, Director, +254-712197542, <u>kenneth@water-forever.com</u>

Parklands Road 25, Nairobi







Maji Milele profile video

https://www.youtube.com/watch?v=RdLvy_j79iQ