

# Introducing the VIA Water Project Owners



VIA Water Café

21<sup>st</sup> March 2019

# Project Owners

## Alfred Adongo, Kenya

Local Financing for Sustainable Water and Sanitation in Lake Victoria Region

## Lawrence Kimaru, Kenya

Waste to Energy (W2E):  
Adoption of Clean Green Energy

## Bernard Muendo, Kenya

Sponge Towns Kitui

## Fiona Mwaura, Kenya

Kenya Aquaponics

## Teresia Njuguna, Kenya

Maji Mkononi, Helping Communities in Kibera

## Lucio Cumbe, Mozambique

Nhartanda Valley Waste Water Inflow Reduction

## Chris Dodzo, Mozambique

Brick and Bag Gardening Maputo

## Baba Faradji N'Diaye, Mali

Water Quality Data of the Niger River

## Bakary Mangane, Mali

Mali Meteo: Mapping and Monitoring Critical Drought Developments

## Askanda Bachabi, Benin

Warning System for Water Shortages

## Mark Agyepong, Ghana

Using Wastewater to Improve Sanitation and Produce Fish

## Valentin Mucyomwiza, Rwanda

Urban EcoSan for Kigali and Musanze

## Gashaye Chekol Yihunie, Ethiopia

Multiple Projects

**VIA**Water

a programme of Aqua for All



**Alfred Adongo, Kenya**  
**Financing for Sustainable  
Water and Sanitation in Lake  
Victoria Region**

Due to a large financing gap and weak targeting in the sector, access to safe water and proper sanitation remains critical in Kenya. To overcome this challenge, a PPP-based financing model with huge scaling potential is adopted within this project, which is to provide more sustainable WaSH services in secondary schools and their immediate surroundings. This model requires contributions from County governments, the banking sector, civil society, secondary schools, and development partners.

**Project Lead**

Sustainable Aid in Africa (SANA)

**Project Partners**

County Governments of Kisumu and Homabay, Maseno University, Stanbic Bank



**Lawrence Kimaru, Kenya**  
**Waste to Energy (W2E): Adoption of  
Clean Green Energy**

We are transforming water hyacinths from Lake Victoria – Africa’s most invasive water weed – into fuel pellets that can be adopted by the local community in Kisumu as an energy source for cooking and heating. This way we are satisfying the needs and access for sustainable and affordable fuel sources that contribute to decreased deforestation, reduced respiratory health issues (that result from the use of traditional cooking fuels and stoves) and increased economic activity.

**Project Lead**

SNV Netherlands Development organization

**Project Partners**

Greenergia K Ltd, Deltares



**Bernard Muendo, Kenya**  
**Sponge Towns Kitui**

We are making sure that the people of Kwa Vonza in Kitui County can tap into the untapped potential of water in their booming town. This is done by turning the town into a sponge, soaking up the water, buffering it, and releasing it in times of drought. By doing this we are increasing the town's natural buffer capacity to hold, clean and drain water. This means less flooding and more storage, reduced damage and health hazards, and increased recharge and water availability.

**Project Lead**  
MetaMeta

**Project Partners**  
SASOL, SEKU



**Fiona Mwaura, Kenya**  
**Kenya Aquaponics**

Our innovation revolves around the introduction and piloting of innovative, low-cost, multi-loop aquaponics adapted to conditions in Africa. Through this innovation, we are stimulating food production for urban areas and arid zones where traditional agriculture is not feasible, creating new or better income opportunities for lower-middle income farmers whilst increasing the availability of organic vegetables.

**Project Lead**  
Tinder Ltd

**Project Partners**  
WUR, TGS, Developonics



**Teresia Njuguna, Kenya**  
**Maji Mkononi, Helping  
Communities in Kibera**

Kiswahili for 'Water in the Hand, Maji Mkononi is an innovative model that aims to enable community members to use their mobile phone to acquire information about location and real-time availability at water points while providing water providers with essential information and water level data from their water points. When the water levels are low, the system sends SMS alarms, giving water providers ample time to refill the tanks and ensure consistency in water supply.

**Project Lead**

MobiTech Water Solutions

**Project Partners**

Umande Trust & Upande Ltd



**Lucio Cumbe, Mozambique**  
**Nhartanda Valley Waste Water  
Inflow Reduction**

We are reducing the inflow of polluted waste water to the Nhartanda valley by providing public sanitation facilities, intercepting run-off of polluted streams by small dams and by treating the water using biological treatment of plant root systems. Through these means, we are preserving the quality of groundwater that supplies drinking water to the city of Tete, as well as enhancing agricultural options, reducing flooding and improving the general quality of life.

**Project Lead**

ARA-Zambeze

**Project Partners**

Municipality of Tete, FIPAG, Waterschap de Dommel



**Chris Dodzo, Mozambique**  
**Brick and Bag Gardening Maputo**

Brick and bag gardening is turning urban trash into vermicast (worm manure), raised bed panels and gardening tools while channeling grey water into vegetable- and fruit gardening. The use of the raised vegetable beds made with bricks, woven polyester bags and plastic containers allows for vegetables and fruits to be grown with limited space, water, chemicals, and money. This means the project brings efficient ecologic, sustainable and economic ways of gardening to the urban poor.

**Project Lead**

Global Industrial Marketing and Distribution Agency (GIMDA)

**Project Partners**

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**Baba Faradji N'Diaye, Mali**  
**Water Quality Data of the Niger River**

We are improving knowledge on the water quality of the Niger River, by collecting physico-chemical and bacteriological pollution indicators of the water from the Niger River. We are using new technologies for data collection, storage, and analysis (underwater drones and smart phones) and share it in appropriate formats for various target groups. The generation of reliable and continuous data enables policy makers to make informed decisions to improve the water quality.

**Project Lead**

Agence du Bassin du Fleuve Niger (ABFN)

**Project Partners**

Akvo, Indymo, CNU, Laboratoire National des Eaux



**Bakary Mangane, Mali**  
**Mali Meteo: Mapping and Monitoring  
Critical Drought Developments**

This project focuses on the flood- and drought-related problems in the Niger Delta in Mali and the impact of these problems on food production. Our innovation works by big data analysis of the longer term drivers and effects of floods and droughts, by using and combining new online media, remote sensing and user-generated data sources. Both historic and actual data is used to improve drought models. Mali Meteo, the local meteorological agency, will have easy access to analyzed data, thus better helping their clients.

**Project Lead**

FloodTags

**Project Partners**

Akvo, Satelligence, Radboud University, Mali Meteo



**Askanda Bachabi, Benin**  
**Warning System for Water  
Shortages**

This project establishes a warning system for water shortages in the SONEB water company network by using ICT. An internet- and SMS-based alert system informs clients about planned and unplanned cuts in the water supply and possible options for storing, treating, and acquiring water. Furthermore, SONEB is setting up a call centre to improve communication with water subscribers.

**Project Lead**

Benin Country Water Partnership (PNE-Bénin)

**Project Partners**

Société Nationale des Eaux du Bénin (SONEB), Eau et Assainissement pour l'Afrique (EEA), SOLUTIS Sarl



## **Mark Agyepong, Ghana** **Using Wastewater to Improve Sanitation and Produce Fish**

TriMark is growing fish for consumption, through the nutrients found in wastewater. The revenue generated through the sale of fish is being ploughed back to cover operation- and maintenance costs of the treatment plant. This means the project addresses both the lack of funds for operation and maintenance of wastewater treatment plants, and the disposal of untreated wastewater into the environment.

### **Project Lead**

TriMark Aquaculture Centre

### **Project Partners**

Kumasi Metropolitan Assembly, International Water Management Institute, Waste Enterprisers Ltd



## **Valentin Mucyomwiza, Rwanda** **Urban EcoSan for Kigali and Musanze**

EcoSan is turning waste into gold by implementing a new design of an ecological toilet and using the waste as a farm fertilizer for agricultural yield growth. EcoSan toilets will be installed in public restrooms and a professional collection facility and farmer demo site will be built to collect the EcoSan fertilizer products, showcase the products and train the farmers using the products. By doing this we are setting up a business model that combines toilet services and farm fertilizers, which is hugely important in a country where 90% of the population depends on farming.

### **Project Lead**

Rwanda Environment Care (REC)

### **Project Partners**

Sanitation Development Ltd, EFP Ltd, SNV





## Gashaye Chekol Yihunie, Ethiopia Multiple Projects

Gashaye Chekol is the Aqua for All representative for multiple projects in Ethiopia. Among others, this includes, firstly, an innovative household water treatment and safe storage (HWTS) program, in which household water filters are distributed through water utilities, using carbon credits to finance the project. Secondly, Gashaye is involved as an advisor to VIA Water, specifically to a fecal sludge extraction project in Adama, in the centre of Ethiopia, which is run by WASTE.

### Household Water Treatment and Safe Storage (HWTS) program:

#### **Project Lead**

Aqua for All

#### **Project Partners**

Tulip Addis, Ethiopian Water Utilities

### Fecal Sludge Extraction Project Adama:

#### **Project Lead**

WASTE

#### **Project Partners**

Yassin Industries, BBBC, Aqua for All