



# WATER SECTOR TRUST FUND

Financial support for improved access to water and sanitation

# NEWSLETTER

January – December 2016 | Volume 25



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## CEO'S MESSAGE

ISMAIL FAHMY  
M. SHAIYE

The year 2016 provided great impetus to the Water Sector Trust Fund as an institution, giving us the motivation required to forge forward with transformation and reforms.

During the period, the President assented to the Water Act 2016, which was then operationalized later in April 2017. The operationalization of the Water Act changed WSTF's name and mandate to Water Sector Trust Fund, with a wider mandate in financing water services, water resources management and sector related research among other significant stipulations.

WSTF organized and executed the first ever Kenya Water Week with the theme From Aid to Trade: Enhancing Business Partnerships and Innovation for Sustainable Water and Sanitation Provision and Irrigation in Africa. The event attracted over 600 participants, of whom 30% were from other countries. This provided for a rich global dialogue on efficient financing and business models for the water sector. Various local innovations from academic and research in-

stitutions, developed to respond to local challenges, were featured as part of the exhibition. Innovation and performance awards were given out through the Water Services Trust Fund Innovation Award (WICA 2016) facilitated by WSTF and Maji Performance and Innovation Awards (MaPIA 2016) facilitated by Kenya Water & Sanitation Civil Society Network (KEWASNET).

The first ever Maji Insight Report was published and circulated to participants at the Kenya Water Week. The report was a result of the first operational monitoring exercise of all projects financed by WSTF since the year 2010. Overall, the report revealed a sustainability index of 70%.

Water Sector Trust Fund remains dynamic in innovative financing and implementation mechanisms, partnership development and enabling environment for collaboration.

Our investments in rural water supply and sanitation, urban water supply and sanitation, as well as water resources management picked momentum and at the moment every County in Ken-

ya is implementing at least one WSTF project. Household sanitation in urban low income areas has improved through the Safisan toilets facilitated by WSTF in collaboration with the Water Companies, as well as construction of at least ten (10) Decentralized Treatment Facilities (DTF) in various towns. This has raised the profile of sanitation and is helping to unlock its economic value.

I wish to appreciate The Government of Kenya, our Development as well as Implementing Partners for their unrelenting support to WSTF and its investment programmes, resulting in increased access to water and sanitation in keeping with the Vision 2030 and the Sustainable Development Goals (SDGs).

WSTF is proud to be part of positive change in our country as we transform the lives of Kenyans one project at a time.

*God bless you, &  
God bless Kenya.*

# 2016 KENYA WATER WEEK



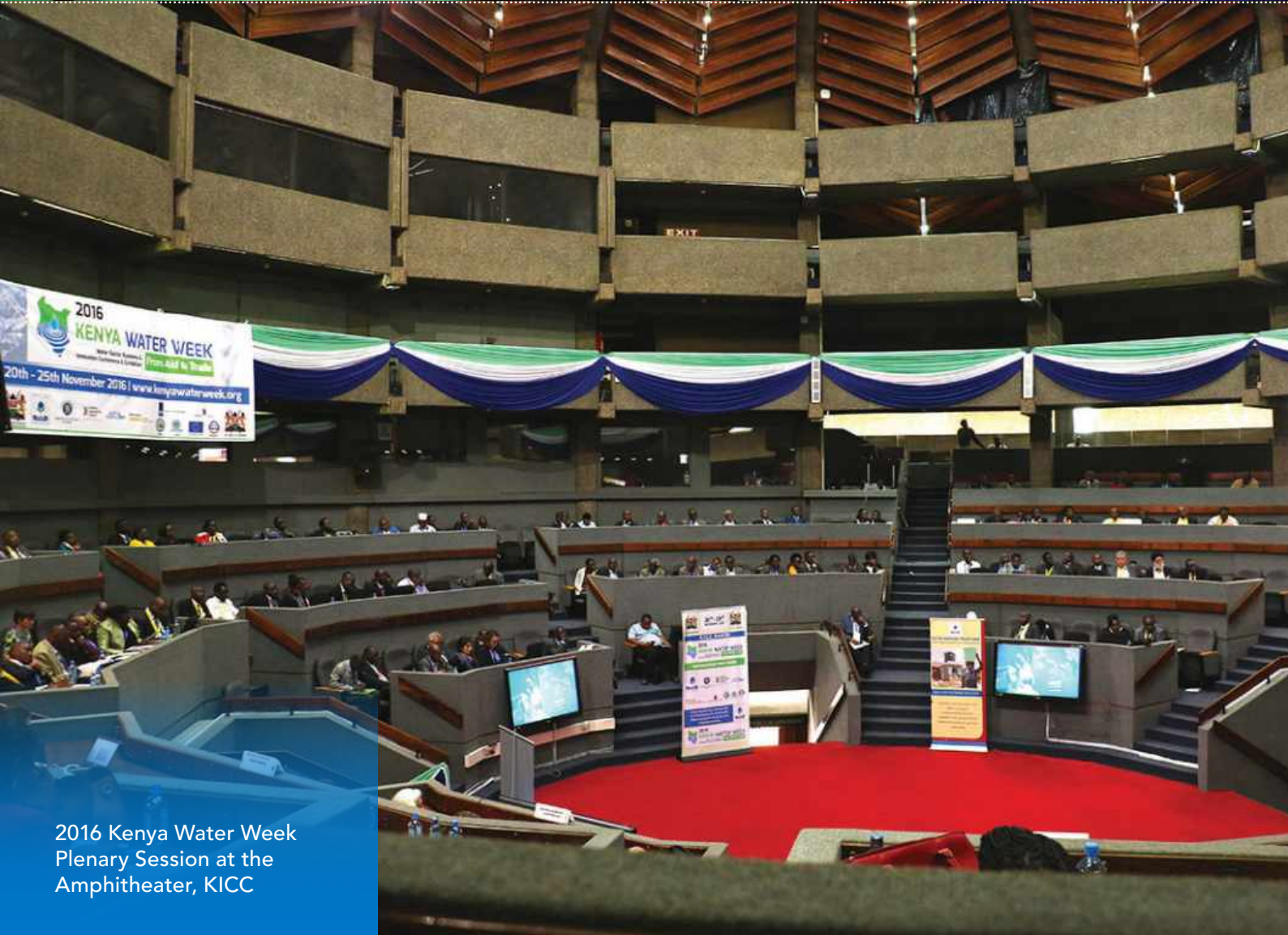
*2016 Kenya Water Week brand shines at KICC*

The 2016 Kenya Water Week organized by the Water Services Trust Fund together with collaborating Partners lived up to expectations as a worthwhile inaugural event which compelled both Kenyan and international participants to deliberate on water issues for one week starting on 21st of November 2016.

When the idea was first introduced, it sounded exciting yet daunting at the same time. We all wanted it to succeed, but were also aware of the overwhelming effort required to put together such a riveting international event.

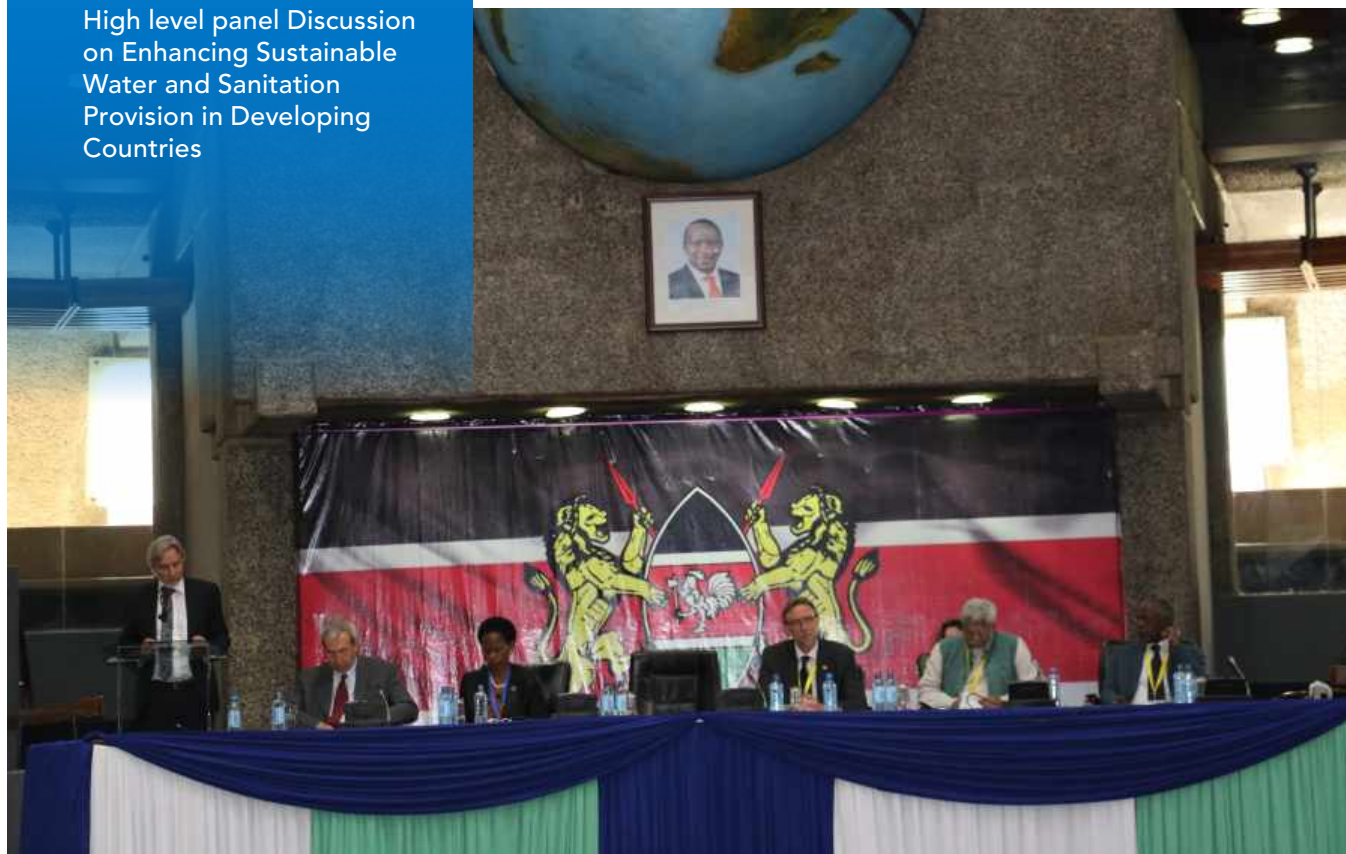
Today we can proudly say that the 2016 Kenya Water Week was a resounding success. The week provided a rich forum for global discussions and deliberations on key water and sanitation issues, and specifically, the shift from Aid to Trade in water sector financing and service delivery.

Hon. Eugene Wamalwa  
Cabinet Secretary, Ministry  
of Water and Irrigation  
giving his speech during  
the official opening of the  
2016 Kenya Water Week,  
KICC



2016 Kenya Water Week  
Plenary Session at the  
Amphitheater, KICC

High level panel Discussion  
on Enhancing Sustainable  
Water and Sanitation  
Provision in Developing  
Countries



Kenyans participated in large numbers, and at least a third of the participants were from other countries.

The theme From Aid to Trade: Enhancing business Partnerships and Innovation for sustainable water and sanitation provision and irrigation in Africa, demonstrated Kenya's desire to move on to the new platform of a middle-income economy. WSTF is doing her part to contribute towards the growth of our country into a fully developed economy.

The 2016 Kenya Water Week provided a platform for knowledge and technological transfer, business partnerships, policy formulation and advocacy among others. This was made possible through conference sessions and presentations, exhibitions, innovations and networking.

Chairperson, Parliamentary Committee on Water and Environment, receives Water Ambassador Award from Deputy President and the Cabinet Secretary for Water and Irrigation



Water Sector Trust Fund Exhibition Stand during Kenya Water Week

Nine (9) finalists won the Water Services Trust Fund Innovation Challenge (WICA 2016) and received awards during the Gala Award dinner, presided over by the Deputy President and the Cabinet Secretary Ministry of Water and Irrigation, Hon. Wamalwa.



*The 2016 WICA Awards winners with Key VIP guests during the Awards Ceremony*

Through Maji Performance Awards (MaPIA 2016) facilitated by KEWASNET, many water sector institutions also received performance and innovation awards.

This is expected to provide many local solutions to local challenges, and we are aware that some of the innovations awarded are already being considered for business ventures.

This event would not have been a success without the immense organizing support from: the Embassy of Finland, KEWASNET, Kenya Markets Trust (KMT), Royal Danish Embassy, Kenya Water Institute (KEWI), Water Resources Authority (WARA), Embassy of Sweden, Embassy of the Kingdom of the Netherlands, International Water Association (IWA), Water Services Regulatory Board (WASREB), and the European Union (EU), among others.



*Gala Dinner at Kenya Water Week*

The Ministry of Water and Irrigation and the Council of Governors provided leadership and steering oversight to the event. The national and global support to the 2016 Kenya Water Week warmed fueled the fire and contributed to an event which will remain etched in our history, and which we hope to propagate for posterity.

*Author: Ruth Nganga,  
Manager Resource Mobilization and Corporate Communication*



Pit latrines in Maina Village prior to construction of the SafiSan toilets

## UPSCALING BASIC SANITATION FOR THE URBAN POOR (UBSUP)

Nyahururu Water & Sanitation Company - Maina Household Sanitation Project

Transformation of Maina village to Maina estate, a life of dignity

Maina village is located approximately 2km from Nyahururu town in Laikipia County, Kenya. The village has been identified under Majidata as a low income area characterized by dense population (with a population of approximately 10,000 people in an area covering 2km<sup>2</sup>), poor housing with semi-permanent structures, low levels of access to quality water and sanitation, poor road and drainage networks among others. Prior to the project intervention, 5% of the residents had good pour flush toilets connected to sewer or septic tanks, 70% had operational pit latrines and 25% did not have toilets or had filled up pit latrines. In addition, the area has a high water table whereby, whenever it rained pit latrines were filled up with ground water which would eventually overflow into the open drains within plots, along the roads and eventually drain into the nearby Gathara stream.

Samuel Kibaara, a resident landlord of Maina village, is the proud owner of four (4) SafiSan toilets. He registered and constructed the 4 SafiSan toilets. He noted, "It's such a relief now that tenants do not queue at the toilet!" Previously, his plot which took a capacity of 58 people had only one toilet (Pit latrine). The toilet would get filled up every 3 months. The SafiSan toilet is now easier to clean and manage and makes savings on exhausting costs. Prior to SafiSan toilet construction, he used to exhaust 4 times a year at a cost of 4,500 each but now only pays Kshs. 150 monthly sewer charge, saving Ksh.16,200 a year!

Water Sector Trust Fund (WSTF) through support from Bill and Melinda Gates Foundation and German Development Bank (KfW) sought to finance low income urban areas towards improved sanitation under Upscaling Basic Sanitation in the Urban Poor (UBSUP) program. The aim of the program was to improve sanitation at household and plot level in low income urban areas. In the 1st Phase of the project, two hundred and eight (208) Safisan toilets were successfully completed between May 2015 and December 2016. Nyahururu Water and Sanitation Company (NYAHUWASCO) was the first Water Service Provider (WSP) in the whole country to successfully complete the project and is currently implementing the 2nd phase with a target of 300 toilets.



Prior to the project implementation, most plots in Maina village did not have a toilet or were severely underserved. The water company has also benefitted from eleven (11) new water and twenty two (22) sewer connections as well as eight (8) reconnections of old customers. It has also improved working relationship with Maina residents whereby the WSP made special arrangements to lower connection fee and allow them to pay in affordable installments. This will translate to increased revenue for the company in the near future.

### Factors contributing to the success of the project

The success of this project has been contributed by the stakeholder participatory approach including the local administration- Chiefs office, Public health and the county government and WSTF, in addition to immense support by the NYAHUWASCO management, technical team, and social animators. NYAHUWASCO management

initiated and supported to extend sewer network of 808 meters within Maina village from their internal resources. This was extremely helpful and encouraged more customers to construct SafiSan toilets as they would be connected to the sewer.

The technical and finance team ensured timely technical supervision and subsidy payments for quality checks and building confidence to the customers respectively. Continuous sensitization, awareness creation through barazas and door to door marketing by social animators worked well to recruit potential customers. It also boosted good working relationship between the water company, social animators and the customers.

Other success factors include use of locally available materials for construction, creating linkages with suppliers, whereby customers would buy in bulk and reap from economies of scale. The WSP made use of few but reliable artisans and peer influence amongst satisfied customers.

### Facts! Saying it in numbers

- » 57 - The number of reduced cases of diarrhea in Maina village (2014-2016)
- » 208 - The number of SafiSan toilets constructed in Phase 1
- » Kshs 5, 346,500 - The amount WSTF channeled in the first phase of the project.
- » Kshs 15,000 - The amount rehabilitated toilets got.
- » 808 - The number of meters that NYAHUWASCO extended sewer in Maina village
- » 10,000 - The number of people living in Maina village
- » 16,200 - The savings in a year, that a landlord in Maina made from connecting to sewer

Author: Martha Wambui, CRM - Laikipia County



Newly constructed SafiSan toilets in Maina Village

# Catchment & Water Resources Conservation

## A success story of Kuywa Water Resources Users Association in Bungoma County, Kenya.

Kuywa Water Resources Users Association (WRUA) was established in 2006 as an environmental conservation group that focuses on tree planting for the sustainability of Kuywa River within the Kuywa River Catchment Area.

The WRUA specializes in general environmental conservation work, especially promotion of tree planting to help ensure the survival of the Kuywa River in the Kuywa River Catchment area. The group was later registered as one of the pioneer WRUAs around Mt. Elgon region in the then Bungoma District. Presently the Kuywa catchment hosts a population of over 86,000 people.

In the year 2012, Kuywa WRUA received financial support totaling KES 1,767,645 from Water Sector Trust Fund (WSTF) which went towards capacity building of its members, spring protection as well as development of a Sub Catchment Management Plan (SCMP). From the savings, the group was able to protect 8 springs from an initial plan of 5. The capacity building was coordinated with the help of the Water Resources Management Authority (WRMA) regional office in Kakamega and Kitale as well as other players in the conservation realm. The group was formed to tackle emerging environmental issues facing the Kuywa River such as; high silt load in the river, rampant deforestation, increasing and catastrophic erosion experienced in some sections of the catchment and the disappearance

of plant products such as fuelwood, fruits and building materials.

Presently the WRUA has a main focus in catchment conservation work especially spring protection, riverbank protection, soil conservation including putting up cut-off drains and various livelihood projects including livestock keeping. The WRUA has in the recent past received financial support from other players in conservation work especially the Western Kenya World Bank Project and the German Technical Cooperation (GIZ) to help implement the SCMP developed with the help of WSTF.

This WRUA has succeeded in keeping an operational office for her activities, actively involving young people in its projects. They have successfully protected 20km of riverbank on River Kuywa through tree planting, sensitization and mapping of the legally provided riparian zone. They also protected a total of 8 springs which have been very helpful in ensuring that the residents of Kuywa catchment get

good water for domestic uses.

The current WRUA chairman Mr. Donald Wafula is a very active grassroots mobilizer and is now the chair of all the WRUAs in Bungoma County. He is also consulted by the County Water Ministry and the regional WRMA offices in Kitale and Kakamega on matters to do with catchment conservation and Water Resources.



Author: Eugene Lusweti CRM Bungoma

1 Tree planting activity along Kuywa River (In the background), by Kuywa WRUA

2 Mrs Redempta Mubbuya (Left) a Kuywa WRUA member who started her livelihood-livestock project after receiving capacity building training through the WRUA.

3 Rehabilitated Kuywa Bridge Spring which provides water to the Kuywa community members.

# Boka Water Project:

## A Success Story in Tana River County.

When the Water Sector Trust Fund team arrived a year ago in Boka community center, the local community were dependent on unprotected hand dug wells and other various forms of surface water, located some few meters outside the community to sustain their growing water needs. Because of this, families were suffering from water borne diseases and severe dehydration among other preventable water related illnesses.

To access water at the dry river beds, the community members dug scoop holes to have water for both domestic and livestock use. In order to fetch water from a scoop hole, an individual had to scoop away stagnant water and allow the water to recharge. However, degradation of the river reduced the amount of time that water flows, so recharging a scoop hole took long. During the dry seasons, the situation was worse, having community members spend more time in line as people waited for the scoop holes to refill.

Therefore, Water Sector Trust Fund (WSTF) under the Medium-Term Arid and Semi-Arid Lands Programme (MTAP), funded the Boka Water Project aimed at providing clean and safe water to the community. The project was implemented by BOKAWAN Water Users Association Community Based Organization. The project serves a human population of 660 households, and livestock population of about 38,200 herd of cattle.

Earlier this year, 2017, WSTF funded additional projects for the community such as : a Hydro geological survey/combined study for One (1) Borehole Drilling & equipping of the same; Construction of an 10m<sup>3</sup> elevated plastic tank on a 10 meter high RC tower; Construction of a 800 meter distribution pipelines to kiosks in the area; Construction of pump house & fence; Construction of 2 Water Kiosks and piping; Construction of 2 Animal troughs; Construction of three 2 door VIP latrines; Training the community members on Operations and Monitoring of the project, of which was completed at the end of July, 2016.

As Hakima Mahamud, a community member recalls, the impact of the borehole/ project has been significant for the Boka community. The project is providing cheap, portable, clean, accessible & reliable water closer to the community for both household and livestock usage. Time taken in fetching water has reduced from 3 hours during dry season to 5 minutes.

“We knew water was not clean & makes our children sick, but we didn't have any other choice until this water center was built. It's a miracle to us” said Moulid Abdi, one of the community elders.

*Author: Affey Abdi, Programme Assistant, Rural Investment Programme.*



Boka Water Kiosk in Tana River County.

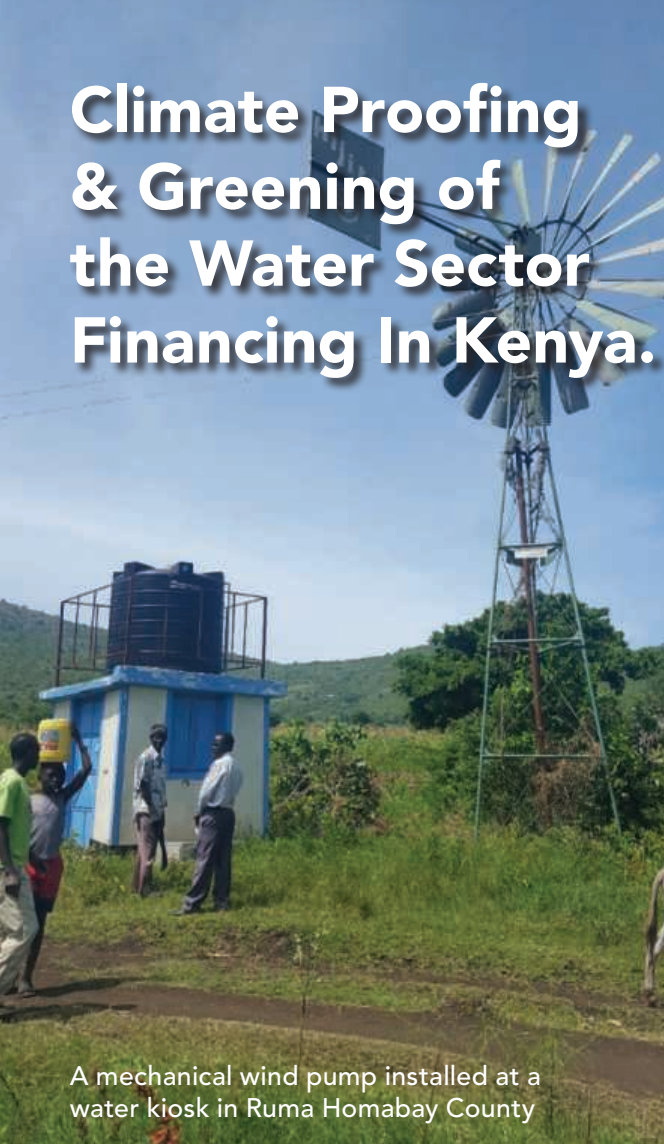
The main entrance to the Boka Water Project Kiosk

Cattle drinking water from the constructed animal water troughs

Commissioning of the Boka Water Project

A contaminated scoop well in Boka Community, Tana River County

# Climate Proofing & Greening of the Water Sector Financing In Kenya.



A mechanical wind pump installed at a water kiosk in Ruma Homabay County



Solar power panels water pumps.



Constructed 10,000m<sup>3</sup> Water pan in Lambwe West, Homabay County in response to WSTF's strategic direction of financing climate resilience measures to take care of our diminishing national water resources

The story of climate change and water is an old adage, with not only climatic trends changing, but the effects being felt upon businesses levels and all kinds of investments across various sectors around the globe. Kenya and the water sector is not an exception.

Water Sector Trust Fund (WSTF) aims at sustainable development through financing of Solar powered pumps, gravity schemes for energy efficiency, research on renewable and green technologies in partnership with the Climate Technology Centre Network (CTCN) and climate proofed infrastructure. WSTF is also working with a number of partners to promote Green water sector development among them the Danish International Development Agency (DANIDA) and European Union (EU).

Climatic modelling from the World Bank group knowledge base shows a general increase in temperature for Kenya and fluctuating rainfall patterns in the time periods shown below.



## Rainfall & temperature trends 1960-1990

The fluctuating trends means that Kenya, will in the near future not only witness incidences of droughts, floods, high and low temperatures but also an increase in landslides. Due to this, Kenya will have to put in place effective measures that are sector specific to still deliver effective services to its citizens. Such climate scenarios have informed the current WSTF's strategic direction of investing in renewable energy options in water supply services as well as adaptation of financing climate resilience measures to take care of our diminishing national water resources.

WSTF is in the near future gearing towards mobilization of resources to finance water and sanitation investments along climate change and low carbon emission technologies. By WSTF taking this bold and new direction, the institution aims towards contributing to the Climate Change Act 2016 and ensuring its coordination and effective implementation while financing water and sanitation projects in Kenya.

The impacts expected in the long run include but not limited to; an increase in direct and indirect green jobs, increase in water generated incomes, reduction of carbon emissions, increase in water sector financing in partnerships with the private sector and sustainable water and sanitation projects.

*Author: Ann Nabangala Obae,  
Programme Officer- Environment,  
Water Resources Investment Programme*

# JOINT ANNUAL OPERATIONS MONITORING

Monitoring and Evaluation remains a critical element for the Water Sector Trust Fund (WSTF) as it works to ensure 5 years after commissioning of a project, 95% of all infrastructures are still fully operational and in good technical and operational condition.

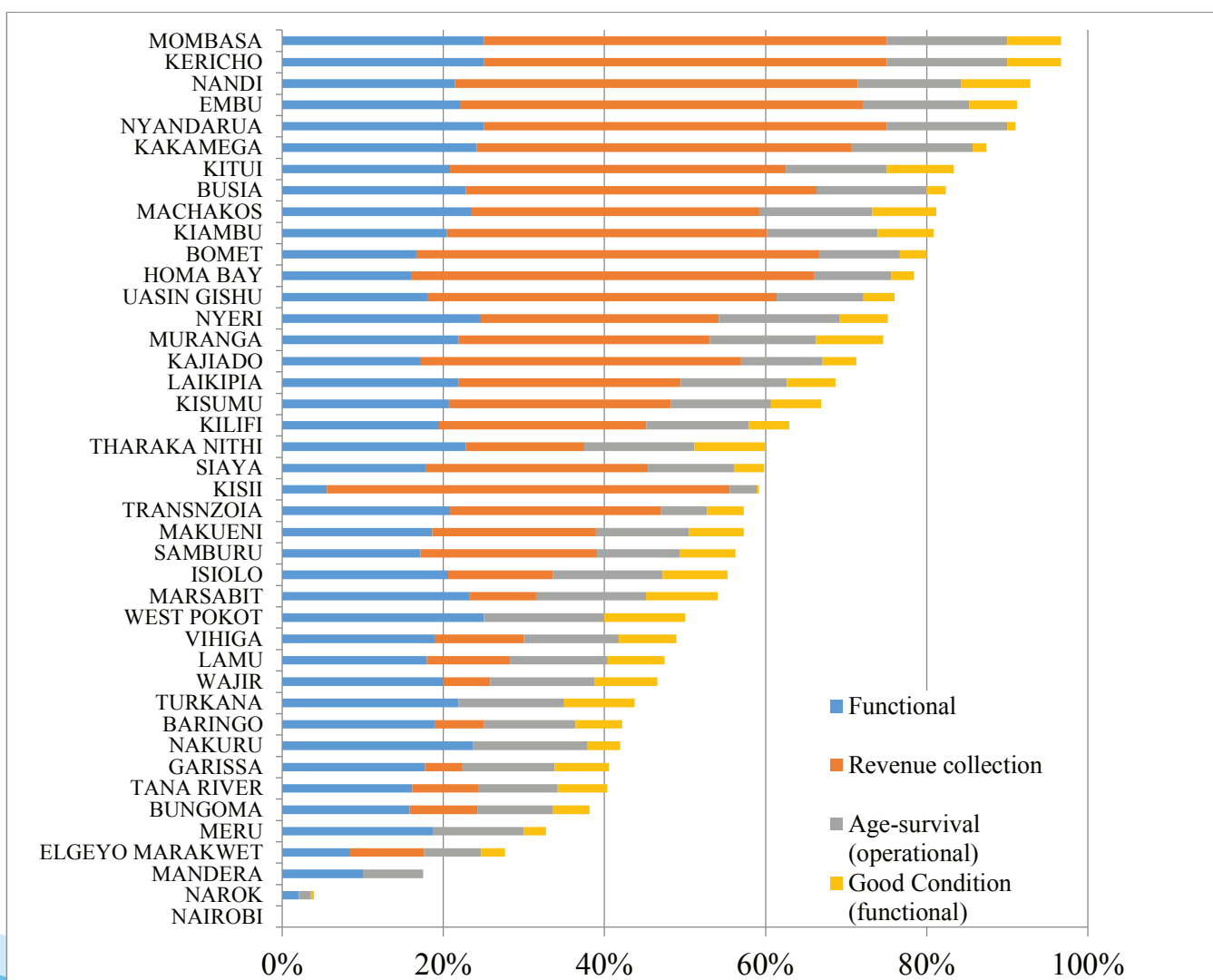
In 2016, the Fund conducted the Joint annual operations monitoring for its investments in order to establish the operational status of WSTF-funded infrastructure, monitor access and coverage and identify supply and service gaps, get detailed, reliable and complete geo-referenced data on the operational status of WSTF-funded infrastructure and prepare the Fund for evaluation.

This was a resource intensive process that required

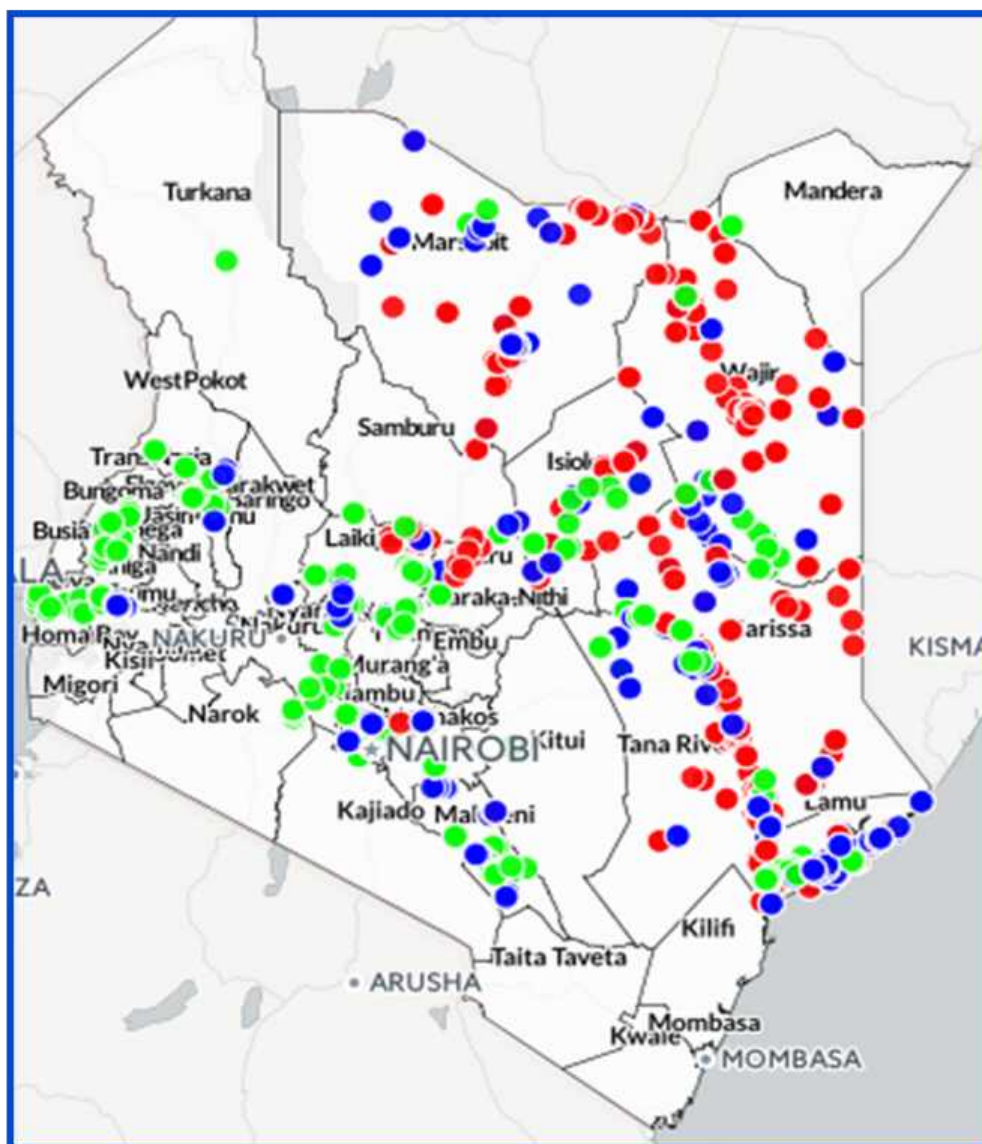
close collaboration and support from the Fund and its implementing partners.

Upon its successful completion, the exercise resulted to updated county specific fact sheets, geo-referenced data for WSTF investments, Projects Issues logs and a sustainability index for its investments in 42 counties in Kenya. Through the operations monitoring, the Fund not only got a feel of its contribution towards Sustainable Development goal no. 6 but also gathered valuable statistics to guide investment decisions and concrete lessons to use in future investments. The overall sustainability for the Fund's investments stands at 63% while 78% of its investments are operational within 5 years after commissioning.

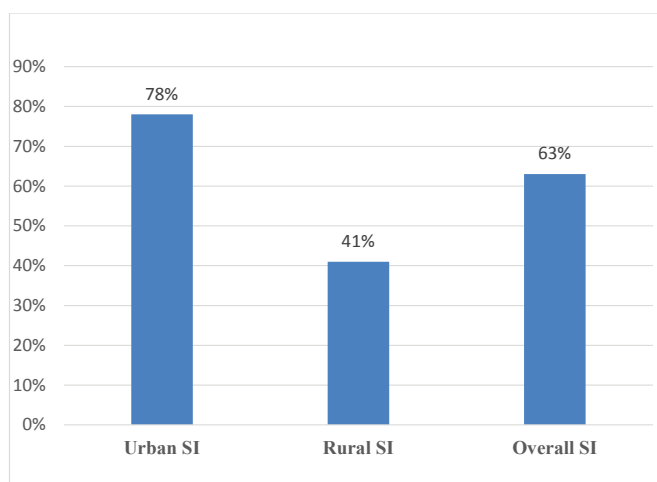
## Overall County sustainability index for WSTF Investments



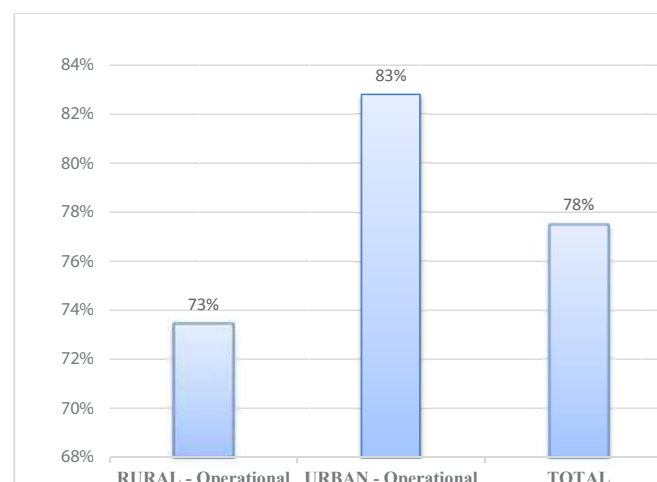
## Georeferenced Data for WSTF Investments



### Sustainability for Individual Investments



### Operational Status for Individual Investments



## County Monitoring and Evaluation Concept

Sustainability is the organizing principle for the Fund's investment in Water, Sanitation and Water Resources. The Funds works to ensure that its investments continually offer services in the long run while also respecting the integrity and stability of the natural environment. Based on this premise, the Fund developed the County Monitoring and Evaluation System which offers real time monitoring and reporting of investments across different counties in Kenya. In 2016, the Fund engaged 27 County Resident Monitors (CRMs) to monitor and support projects implementation in 47 counties. On evaluation, the system has had the following successes;

- » Improved quality of investments since the CRMs offer technical support to projects implementation and ensure projects are implemented as per the standard designs
- » Enhanced the relationship (communication) between the Fund, implementing partners and the counties
- » Ensured real time monitoring and reporting of projects
- » Improved efficiency in projects implementation
- » Decentralised some WSTF services to the counties

Therefore the County Monitoring and Evaluation system remains core to the of the Funds mandate.

*Author; Dennilson Musau, Monitoring and Evaluation Assistant*

## My Internship Experience at Water Sector Trust Fund



As a student and a trainee, I have not had any opportunity to work with any organization and it is a great milestone and an insightful experience to work in WSTF. For my ongoing one and a half months attachment at the Fund, under the Urban Investment Programme Unit, I have been given the opportunity to apply practical skills that I obtained during my study, as well as make use of many resources not as readily available elsewhere.

This internship has given me an opportunity to participate in project monitoring which was an enriching and inspiring experience. I got to observe how Urban Investments, through Up-Scaling Basic Sanitation to the Urban Poor program (UBSUP), is a response to sanitation challenges faced by

households. The end result of this response is the construction of toilets in urban low income areas hence making decent sanitation a reality to the urban poor and eventually improving their living standards. Having a chance to meet and interact with experts on ground during our field monitoring exercises, gained me an all-round experience and exposure in project coordination, social marketing, technical and project management. With the guidance, support and patience from my supervisor and valuable assistance from the staffs, I am able to acquire supplementary practical experiences and in-depth knowledge. In addition, I am learning that communication, interpersonal skills, punctuality and teamwork are key values in an organization and I am certain that the skills I have acquired here will benefit me in my future career as an environmentalist and a community developer.

Overall, it is a fruitful and enjoyable experience working in the organization, as the environment is extremely conducive for teamwork and allows interns to freely express their enquiries. With this positive experience, interning at WSTF has been an eventful, memorable and stimulating experience as I work closely with experts from different disciplines. I highly appreciate their enthusiasm and collaboration while working with interns.

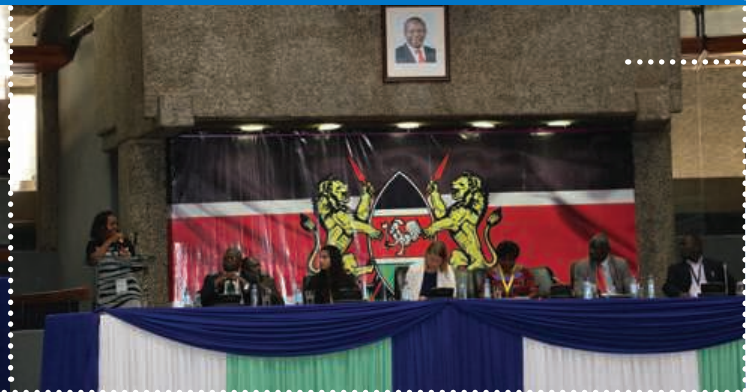
*By Valary Oyoo  
Urban Investment Programme Intern*

# GALLERY

2016 Kenya Water Week



High level panel discussions and break-out sessions during the Kenya Water Week



2016 WICA / MaPIA Awards Dinner





Exhibition Arena at the Kenya Water Week



2016 WICA Finalists Pavilion at The Kenya Water Week Exhibition Arena



# Events of the Year

WSTF 2016 End of Year Party



Stockholm World Water Week, SIWI



World Water Day



Council of Governors Devolution Conference



Kakamega Half Marathon



World Bank Open Day



CIC Plaza, 1st Floor Upper Hill, Mara Road Nairobi, Kenya  
Email: [info@waterfund.go.ke](mailto:info@waterfund.go.ke) | Website: [www.waterfund.go.ke](http://www.waterfund.go.ke)  
P. O. Box 49699 - 00100, Nairobi. Tel: (020) 272 9017, 18, 19

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