



FundiFIX

Maintaining Rural Water Services



COMPANY PROFILE



Fundi*FIX*

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Our Brand Story

FundiFix is a Kenyan-owned and registered social enterprise, established in 2014, and provides repair and maintenance service for rural water infrastructure serving communities, schools and health facilities.



Why Rural Water Maintenance?



The 2030 Agenda for Sustainable Development commits UN Member States to take bold and transformative steps to 'shift the world onto a sustainable and resilient path', 'realize the human rights of all', 'end poverty in all its forms', and ensure 'no one will be left behind'.

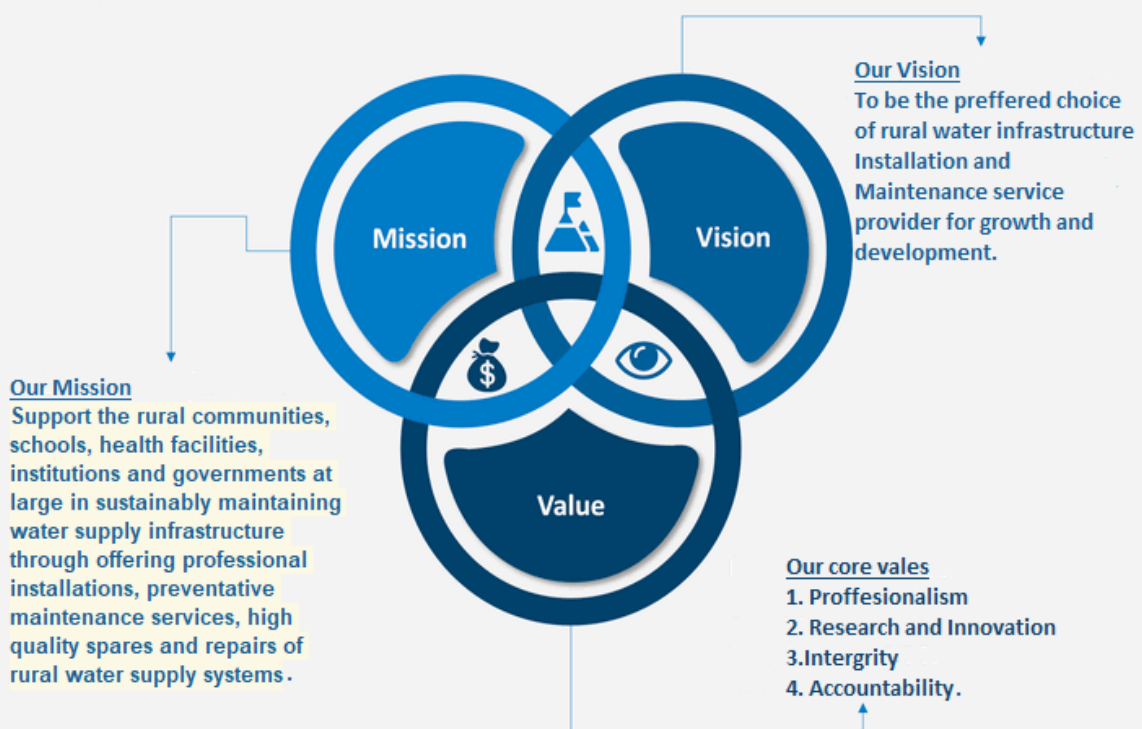
Globally, in 2017, 628 million of the 785 million people who still spent more than 30 minutes per day collecting water, used unimproved sources or surface water lived in rural areas.

In Kenya, **one in two people living in rural Kenya** (or 17 million people) **lack access to a basic water services** and one in three people rely on surface water for drinking needs. High non-functionality of rural water supply infrastructure is a major drag on drinking water access and country-wide statistics show that 24% of the rural water points are not working at any given time.

To achieve Kenya's goal of ensuring universal access to basic water services by year 2030, new models of rural water service delivery are required. FundiFix Model is an approach for preventive maintenance and repair of rural water infrastructure to guarantee 24/7 functionality.



MISSION, VISION & VALUES



Our Expertise

Water Pumping Solutions



Solar Water Pumping Solutions

Borehole pumps, Shallow well and surface pumps powered by Solar Energy.

Electric Water Pumps - Booster, Centrifugal, Submersible drainage and Borehole Pumps for domestic, industrial, irrigation and water supply applications.

Hand Pumps - Afridev, India Mark II, Blue pump, Mark III, Force Lift Hand operated Pumps for shallow wells.

Engine Powered Pumps - Diesel and Petrol driven pumps for irrigation or water supply. (Honda, Briggs & Stratton, Lister).

Engine Power Solutions



Power Generators

Diesel- and Petrol-powered generators for domestic commercial and pumping applications. (Honda, Lister Petter, Briggs and Stratton, Perkins).

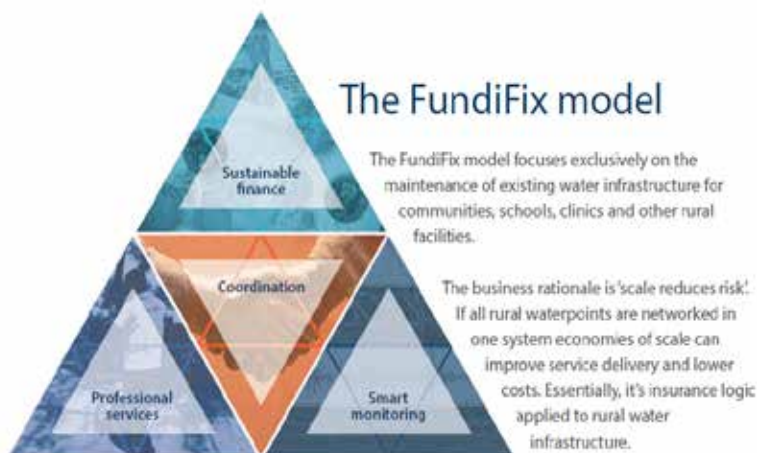
Welding Generators

Welding generators for small applications.

Engines

Diesel- and petrol-powered engines for driving Agricultural machinery.

Repair and Maintenance of Rural Water Infrastructure



Through our technical division, we have held more than 130 maintenance contracts for water supply equipment/networks. This includes an extensive network of hand pumps, solar water pumping systems, electrical and diesel water pumping systems, power generators, storage tanks, and pipelines for drinking water supply.

Our client base is drawn from rural communities, schools, and health facilities.

Our technical division is always on stand-by for alerts and responsible for ensuring 24/7 functionality of the water supply facilities/equipment.



We respond promptly to breakdown alerts, diagnose, and fix arising issues within 3-5 days for reliable drinking water access to local communities. We deploy smart monitoring technologies to flag failures and to validate completed repairs.

Water Pipeline Installations, Rehabilitation and Maintenance

With our experienced team of engineers and plumbers, we design, install, rehabilitate, and maintain water supply networks including pumps, solar equipment, generators, storage tanks, pipelines, and appurtenances.

We have an in-house team of qualified engineers and technicians who steer our assignments.

We own various assets including electrical and plumbing equipment/tools that enable us to serve you professionally.



Smart Monitoring, Research and Innovation

FundiFix is at the forefront of water research and innovation to deliver solutions for rural water services.

FundiFix provides OxWater Sensors for remote monitoring of hand pumps functionality and usage, and the service includes a live dashboard.

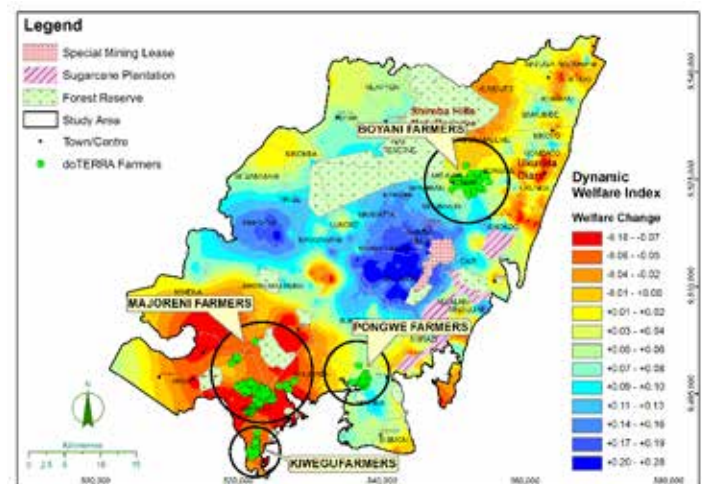
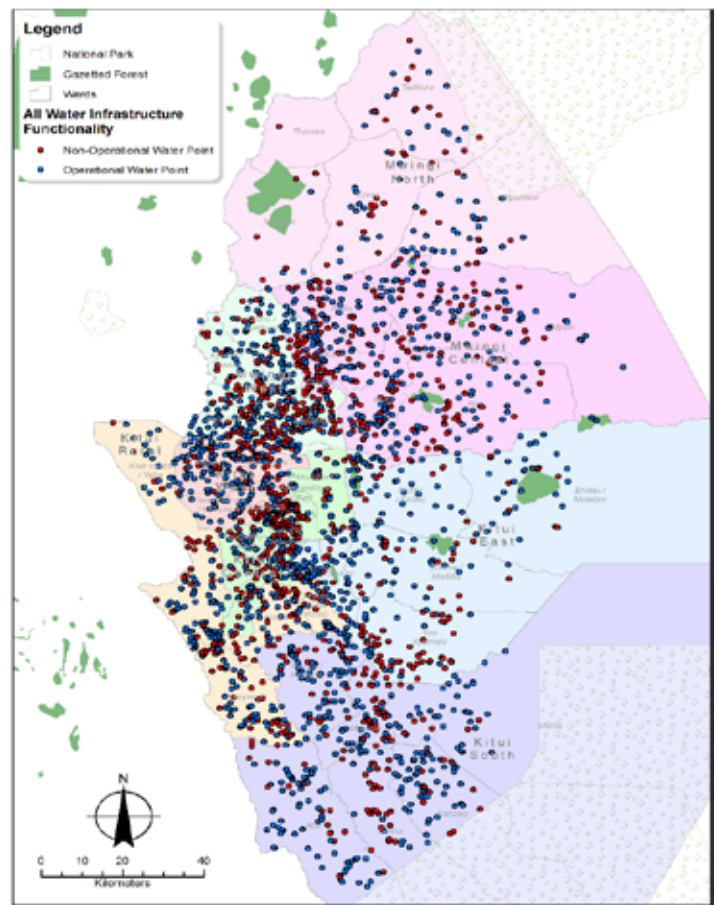


FundiFix team has taken part in deployment of >350 sensors in Kwale, Busia, Machakos, and Kitui counties in Kenya.

FundiFix has installed Water ATMs at rural water collection points to ensure communities have access to drinking water 24 hours a day. The Water ATMs allow remote monitoring of water point operations including water volumes and revenues, and integrate to M-PESA payment platform for efficient revenue collection and accountability.

In conjunction with its partners, FundiFix has managed large scale data collection and studies on rural water in Turkana, Kitui, and Kwale Counties of Kenya, e.g.

- In 2017 FundiFix was contracted by Do Terra Ltd to conduct a study of local farmers to understand household welfare status and inform better targeting of its support to local communities for improved livelihoods.
- In 2018, FundiFix was contracted by Rural Focus Ltd to conduct a study of Mwingi North households on water access, affordability, quality, and reliability and policy preferences.
- In 2018, FundiFix provided logistical support for a study in Lodwar and Ukunda towns in Kenya, aimed at generating evidence for a global audience on market size/extents and potential impact of informal water vending.



Our Achievements/Projects Done

Maintaining Rural Water Infrastructure

Since its inception in 2014, FundiFix has to date provided repair and preventive maintenance services to over 130 piped schemes and hand pumps in Kwale and Kitui, Kenya, through annual and renewable repair and preventive maintenance contracts with FundiFix.

95% of all breakdowns reported in these projects have been repaired within 3 days and 99% of all breakdowns reported by hand pump communities have been repaired within 3 days.

The rural water systems maintained by FundiFix serve a population of more than 86,000 people, including approximately 25,000 children in 74 primary and secondary schools.



Rehabilitation and Maintenance of Rural Water Infrastructure

Tharaka Womens Water Project, in Mwingi, Kitui: FundiFix managed a KES 1.4 Million rehabilitation of the water project in 2019.

The rehabilitation of Tharaka Womens Water Project entailed repair of >50km pipeline and valves, production metering, construction of 20no valve chambers repair of storage tanks and installation of a water ATM. The works benefited up to 15,000 users with improved drinking water service.



Ikathima Community Piped Scheme, in Mwingi, Kitui:
 FundiFix partnered with *Sharewater Foundation*, in 2018, to rehabilitate and optimise Ikathima Community Piped Scheme in Kitui County at cost of KES 0.62 Million. The works entailed expansion of solar water pumping, installation of a Water ATM, and rehabilitation of a water kiosk. FundiFix also provided 6 months of repair and maintenance service at the scheme, leading to reliable water access for over 3,000 people.



Ivonangya Piped Scheme, in Mwingi, Kitui:
 FundiFix partnered with *Hardcore Foundation* in 2019 to rehabilitate the Ivonangya Community Piped Scheme in Mwingi North, at a cost of KES 0.45 Million. The work package included rehabilitation of the community water Kiosk and installation of a water ATM to allow 24/7 access to water, benefiting up to 2,000 people/users.



Our Staff Capacity



Dr. Jacob Katuva, Director, FundiFix Limited.

- PHD, Groundwater and Welfare, University of Oxford, UK.
- M.Sc. Environmental and Biosystems Engineering (Irrigation and Natural Resources engineering), University of Nairobi, Kenya.
- BSc. Soil, Water and Environmental Engineering, Jomo Kenyatta University of Agriculture and Technology, Kenya
- WASH Specialist: Trained at Registered Engineers for Disaster Relief-UK (REDR UK, People and Skills for Disaster Relief) - Water, Hygiene and Sanitation in emergencies.
- GIS Flood Tool: Trained at Regional Centre for Mapping of Resources for Development under United States Geological Survey (USGS) on GIS Flood Tool for Mapping Extend of Inundation.
- NEMA: Associate Expert (6203).
- HSK: Registered with Hydrological Society of Kenya as a Hydrologist.
- Other skills: Water supply engineering, Hydrological assessments & Modelling, Run-of-the River Hydropower, Geo-statistical Analysis.



Cliff Nyaga, Director, FundiFix Ltd

Cliff has nine years of work experience in urban and rural water services delivery in Kenya and leads the incubation of FundiFix into a sustainable social enterprise.

Before joining FundiFix Cliff was a Water Sanitation and Hygiene (WASH) Advisor to SNV Netherlands Development Organization (SNV) in Kenya, and implemented interventions sought to support urban water utilities to mobilize private sector for financing, technology and skills transfer to address infrastructure losses/non-revenue water. Prior to joining SNV Cliff was a Projects Coordinator at Rural Focus Ltd, where he managed implementation of DFID/ESRC funded research in Kitui and Kwale Counties. Cliff also provided professional management services to a community-owned piped water supply scheme - Kiamumbi Water Supply (KWS) that serves over 6,000 people, in a novel initiative that demonstrated pivotal role of private sector in improving operation and management of community – owned water supplies in Kenya.

Cliff holds a degree in Bsc. Soil, Water and Environmental Engineering from Jomo Kenyatta University (Kenya), and a postgraduate degree in Msc. Water Science, Policy and Management from the University of Oxford (UK). He is trained in and has implemented the 'making markets work for the poor' (M4P) approach.



Peter Mugo, Water Engineer, Fundifix Ltd.

Qualifications

- Bachelor of Engineering in Civil Engineering from Technical University of Kenya.
- Design and Installation of water pumping projects including solar water pumping, submersible, surface and centrifugal pumps
- Design, Sizing and installation of generators and engine pump systems
- Formerly Sales and Service engineer at Epicenter Africa during which period he designed and supervised the installation of various water projects funded by KIWASH, Care Kenya, World Vision, UNHCR and I.O.M South Sudan.



Annastacia Kalee, Office Manager, Fundifix Ltd, Kitui, Kenya.

Annastacia manages Fundifix’s office administrative and logistical functions, including financials, human resources and customer relations. Annastacia has over four years of work experience in business management, field research and accounting roles.

Annastacia recently held the position of a Procurement Assistant at Wide-Range Limited, a supplies Company in Nairobi. Previously, Annastacia served as an enumerator for FAO, UNICEF and IMC funded socio-economic surveys, conducted in various parts of Kenya. She also worked as a Claims Officer for the NHIF in Kenya.

Annastacia holds a Bachelor of Science degree in Actuarial Science from the Meru University of Science and Technology. She is skilled in computer programming and very experienced in application of mobile survey tools including the *Open Data Kit (ODK)* and *survey CTO*.



Reuben Nduvi Musyoka, Business Development Manager, Fundifix Ltd., Kwale, Kenya

Reuben holds the position of Business Development Manager at Fundifix in Kwale (Kwale Handpump Services Ltd (KHSL)). Reuben’s role at Fundifix involves the coordination of repair operations, development and implementation of strategies for expanding services to more rural communities. Other roles include building partnerships with local stakeholders, including NGOs, County Government, and Community Based Organizations. In addition, Reuben is responsible for office management, operations monitoring, and reporting on performance of the repair service offered by Fundifix.

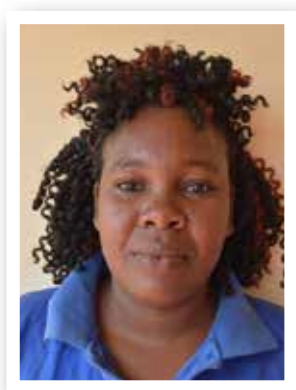
Reuben has a degree in Business Administration (Accounting) from the Technical University of Mombasa. He has over three years’ work experience and formerly conducted longitudinal social-economic household surveys in Kwale county.

**Muimi Kivoko, Technical Officer, FundiFix Ltd., FundiFix, Kitui**

Muimi is in charge of day to day management of repair and maintenance work at FundiFix. He assigns duties to FundiFix field technicians and ensures quality control.

Before joining FundiFix, Muimi worked with several organizations in different parts of Kenya specifically on water matters. This includes the Kenya Red Cross in North Eastern Kenya on a programme to reclaim Arid and Semi-arid areas, National Irrigation Board on agricultural land preparation and construction of water canals, and Tanathi water Service Board on planning, and construction of earth pans. Muimi also worked with Magochi Investment Company Ltd as a foreman on a water supply and road development project, and with Valley Drillers Company Ltd as a site agent for water/borehole drilling and equipping works. Muimi is also experienced in water point mapping surveys, from an Oxford University-led water infrastructure audit exercise in Kitui County.

Muimi holds a Diploma in Irrigation and Drainage Engineering from Kenya Water Institute and a Certificate in Horticultural Production from the Tel-Aviv Institute of Horticultural Production (Israel).

**Annah Kavata, Technical Officer, FundiFix Ltd., Kitui, Kenya**

Annah's role within FundiFix is leading business development for Kitui operations. The role involves community mobilization, marketing of FundiFix services, and ongoing liaison with both local government and communities.

Annah has worked with the Kitui County Ministry of Water and Irrigation as a Trainee Water Technician. She has also worked with Rural Focus Ltd as an enumerator for household surveys on water and health, water affordability diaries/survey, and rural water infrastructure mapping survey under a USAID/Oxford Programme. She is experienced in the used of GIS/GPS tools, Enketo and ODK platforms.

Annah holds a Certificate in Water Resources Management and Technology from Kenya Water Institute, and a Post-graduate Diploma in Water Resources Management and Technology from the Kenya Water Institute (KEWI).

**Rufus Mwaniki, Consultant Technician, FundiFix Ltd., Kitui, Kenya**

Rufus is in charge of coordinating delivery of timely and quality Handpump repair and maintenance activities at FundiFix in Kitui.

Rufus has over 30 years of work experience as a Water Technician. He has worked for the Government of Kenya (Ministry of Water) in this capacity in various parts of Kenya. Part of Rufus's role was to oversee the construction of new water infrastructure and repair of broken water supply schemes. Rufus also trained water operators and village level technicians on repairs and maintenance of water infrastructure in partnership with various development organisations in Kenya, including ActionAid Kenya and World Vision.

Rufus holds a certificate level training from the Ministry of Water in Kenya.

**Idd Mbaruku Mwaropia, Senior Technician, FundiFix Ltd., Kwale, Kenya**

Idd holds the position of Senior Technician at FundiFix in Kwale. He has over 20 years' experience in Handpump construction, repair, and maintenance. His current role at FundiFix involves community engagement/marketing of FundiFix's repair and maintenance services for growth in coverage, responding to reported breakdowns, and conducting preventive maintenance circuits.

Idd has worked under various drinking water access programmes in Kwale, including with the Kenya Water for Health Organisation (KWAHO) on issues relating to training and capacity building of community and women groups on water facilities management, and participated in monitoring of post-construction performance of water investments. Idd also worked under a Swedish international Development Cooperation Agency (SIDA) rural programme on construction of Handpumps for community and schools water supply, which included rehabilitation works.

**James Okoti Ayiega, Senior Technician, FundiFix Ltd., Kwale, Kenya**

Okoti is a Senior Technician at FundiFix in Kwale and his role is primarily customer care/community engagement, responding to reported breakdowns, and conducting preventive maintenance circuits.

Okoti has over 25 years' work experience in construction, repair, and maintenance of water infrastructure. He has worked with the Kenya Water for Health Organisation (KWAHO) and Swedish International Development Agency (SIDA) rural water access programmes.

James has also trained water operators and village level technicians on repairs and maintenance of water infrastructure in partnership with various non-governmental organisations in Kenya, including Action Aid Kenya and World Vision Kenya.

**Jackson Komu, Technician, FundiFix Ltd., Kitui, Kenya**

Jackson is a Senior Technician at FundiFix and leads the repair and maintenance of Piped Schemes in Kitui. He has over 18 years work experience in plumbing and associated water infrastructure maintenance works, including at the Ngomeni Rock Catchment Piped Scheme, which is one of the biggest schemes in Mwingi, Kitui.

Jackson holds a certificate in Sustainable management, operation, and maintenance of Rural Water Supplies from the Kenya Water Institute (KEWI) and a second certificate in Internal control systems for organic certification of forest and farm products from ICIPE Kenya.

**Mwasi Kanyaga, Plumber, FundiFix Ltd., Kitui, Kenya**

Mwasi is a Technician at FundiFix in Kitui. His forms parts of the FundiFix repair team, which responds to reported breakdowns at registered Piped Schemes and Handpump managed by communities and schools.

Mwasi has over five years of work experience in water related installation works. He formerly worked for Colombia Ltd, a Water Company that deals in construction/rehabilitation of water supply infrastructure. Mwasi has also worked on Kenya Red-Cross-funded rural irrigation development projects in Kitui where he held the position of Plumber.

**Harrison Kimanzi, Plumber, FundiFix Ltd., Kitui, Kenya**

Mwasi is a Technician at FundiFix in Kitui, and leads repair and preventive maintenance of registered Handpumps. He also supports repair and preventive maintenance works at Piped Schemes registered with FundiFix.

Harrison has over 10 years of work experience in rural water (drinking and irrigation) projects development. He formerly worked on World Vision Kenya funded irrigation projects in Kitui and Machakos Counties, and on a Red Cross funded irrigation project in Mwingi North as the Plumber.

Our Partners

REACH

Improving water security for the poor



share








Maintaining Rural Water Services

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