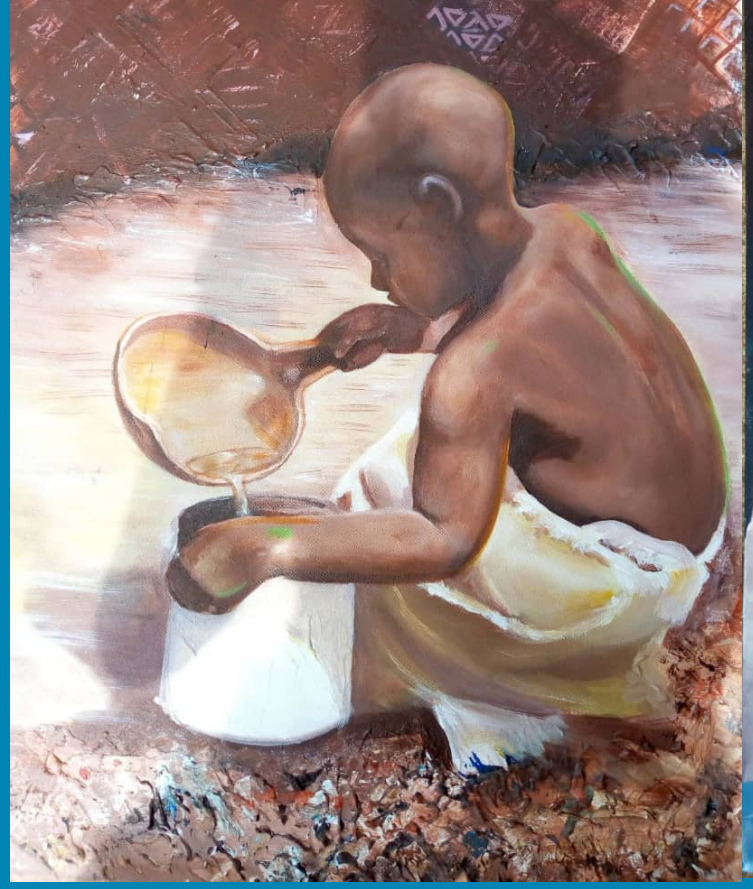


Water Access Rwanda

www.warwanda.com

Who We Are

Water Access Rwanda is a youth led social enterprise that provides simple affordable and durable water solutions, using young people as providers.

132,000 + People Serviced

8+ Farms irrigating from our boreholes

AFRICAN ENTREPRENEURSHIP AWARD
Powered by BMCE Bank of Africa

AFRICA edf pulse

NEW FACES NEW VOICES
WOMEN IN FINANCE

IFC International Finance Corporation
WORLD BANK GROUP

KORA

YOUTH SOLUTIONS REPORT 2018
50 #YouthSolutions for the SDGs
www.youthsolutionsreport

ONE ACRE FUND

Matelas Dodoma

Water4

Made in Rwanda

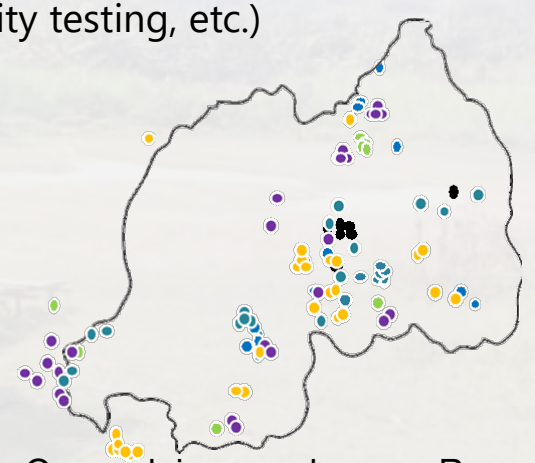
VIVA PRODUCTS

Spadel

fh RWANDA

Services

- **INUMA ™**
- Borehole drilling
- Pump and Filters sales and installation
- WASH Trainings
- Geo-surveys (Seismic and VES)
- Water point management
- Water Sales
- Other borehole related services (yield testing, maintenance, pumps, water quality testing, etc.)



Our work is spread across Rwanda, DRC, Uganda and Burundi with a focus on Rwanda.

Since 2014

159 Million Globally

Our traditional solutions do not provide permanent solutions

More than 50% of rural water infrastructure is non-functional

Kiosk 1
Rwintare Water well
Kiosk 2
© 2017 Google
Image © 2017 CNES / Airbus

Environmental Justice

Water Is A Human Right

"Water is a limited natural resource and a public good fundamental for life and health.
The human right to water is indispensable for leading a life in human dignity. It is a prerequisite for the realization of other human rights."

General comment No.15
Adopted January 2003
Compliments 1966 ICESCR
Economic, social, and cultural rights

The Opportunity

Under-utilized Groundwater Resources

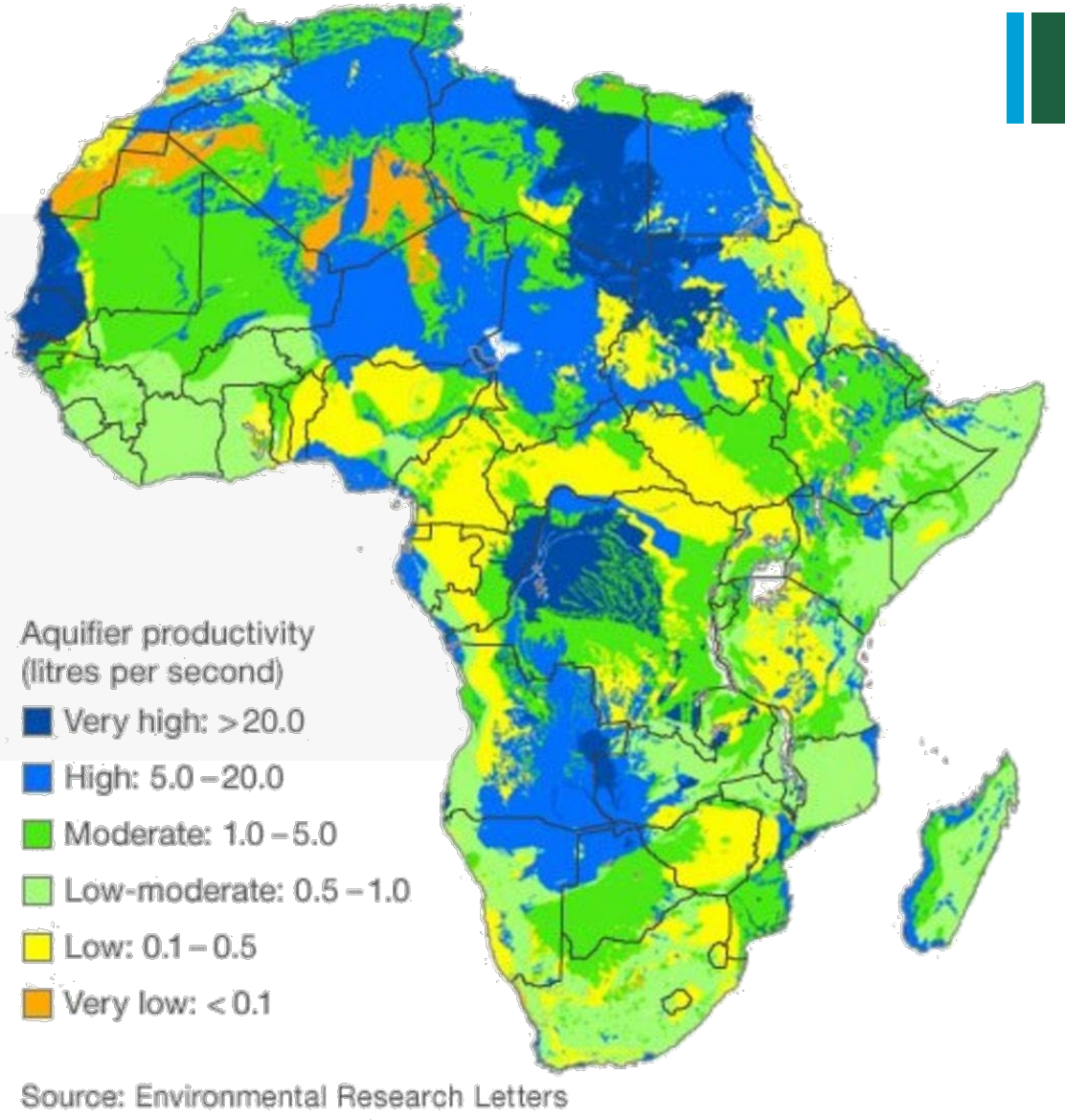
Example: Boreholes and Dug wells in Rwanda

580

boreholes and dug wells are not functional (out 784 mapped)

78.3%

Use handpumps with yield limited to 20LPM



The African Continent is sitting on huge, under-utilized aquifer waters.

Economic Water Scarcity

Source: mWater Rwanda Borehole Dashboard done from 250 Rwandan users.

Collaboration to Ensure Sustainability

2016

Ndejuru farm with a public tap

2017

Brick Kiosk in a Nyamata Farm

Farmers

Collaboration to Ensure Sustainability

2019

Community Point One Acre Fund Seed Multiplying project

2019

Some boreholes are managed through a carbon project.

ONE ACRE FUND

Businesses

Spadel

2017

Reliable
Affordable
Convenient
Aspirational

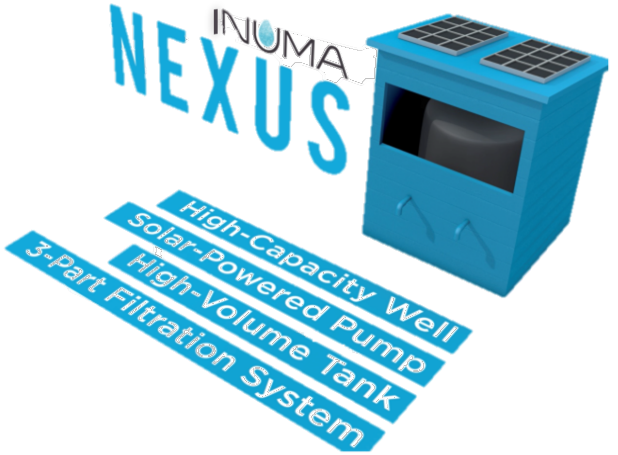
Since 2017

By
Water Access Rwanda

www.warwanda.com

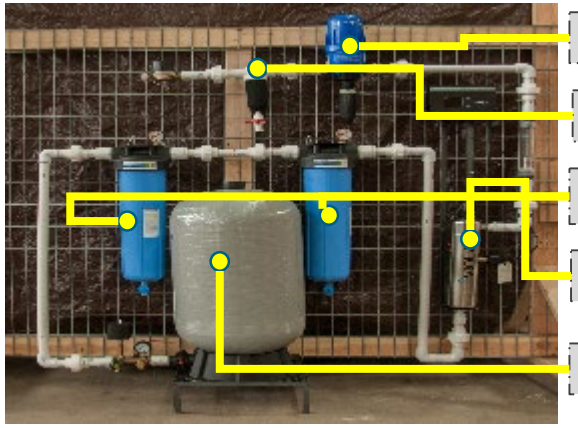
The INUMA™ Nexus

The Central part of the INUMA Network is the Nexus.
It is where the filtration and pump controls are housed.
The Nexus is the first step to any INUMA™ Network



60 Liters per Minute of Completely Purified Clean Water under pressure ready for distribution.

Filtration



- Dosatron Chlorinator
- Lakos Twist Clean
- Pentek Sediment Filter
- UltraViolet Purifier
- Pressure Tank

Power and Controls

Simple switch between solar/wind and Grid electricity/back-up generator

Smart Revenue management through prepaid meter

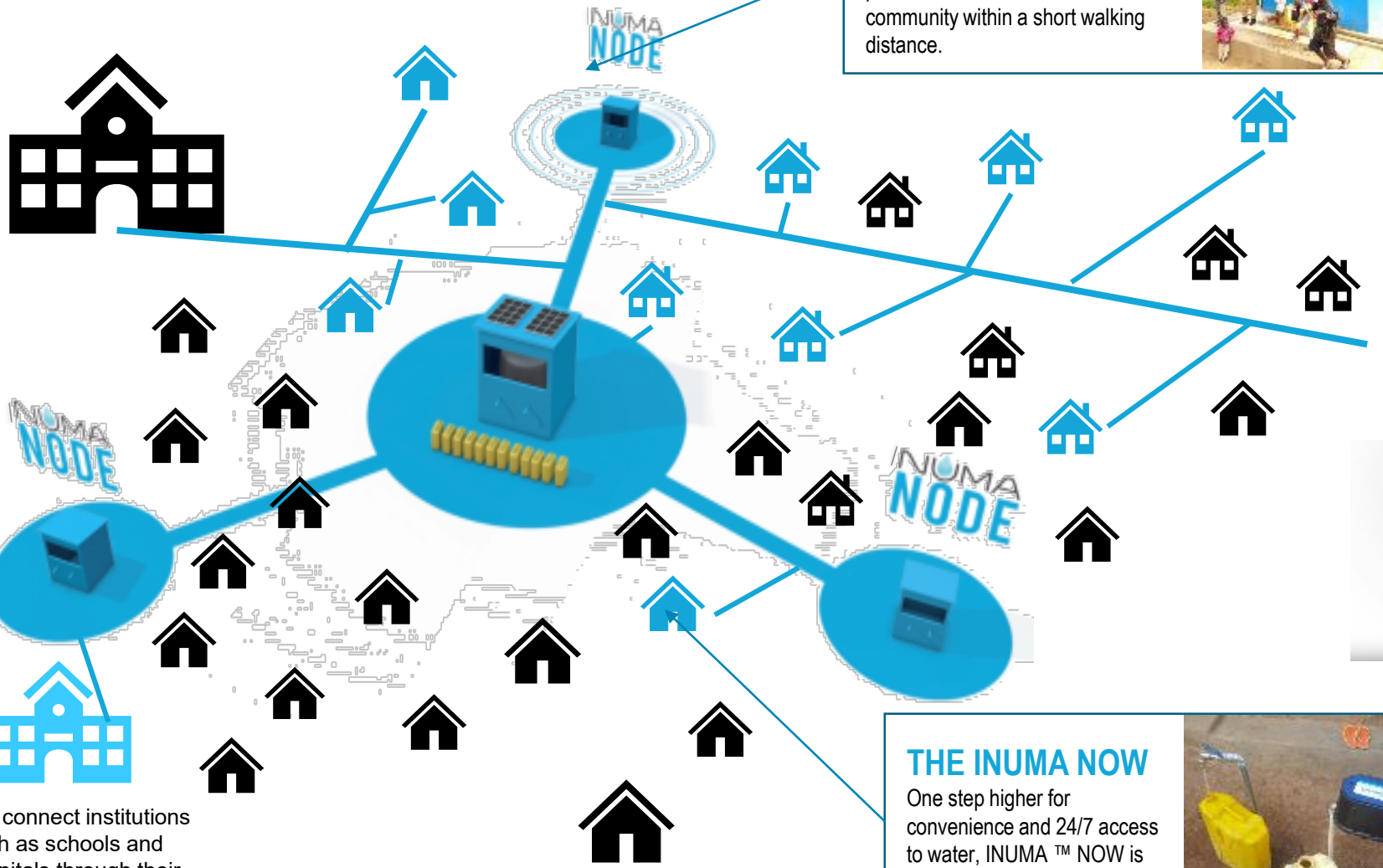
RFID

A prepaid meter with good integrations and controls to reduce water revenue losses.

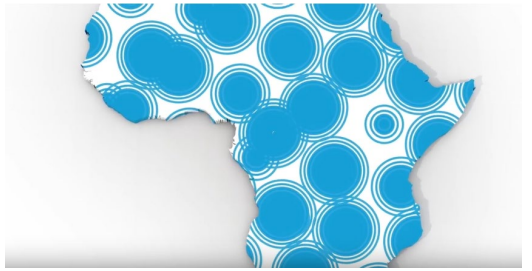
The INUMA™ Vision

THE INUMA NODE

Up to 800m away from the nexus, the INUMA™ Node allows for public water points to be closer to more of the community within a short walking distance.



We connect institutions such as schools and hospitals through their own access points.



THE INUMA NOW

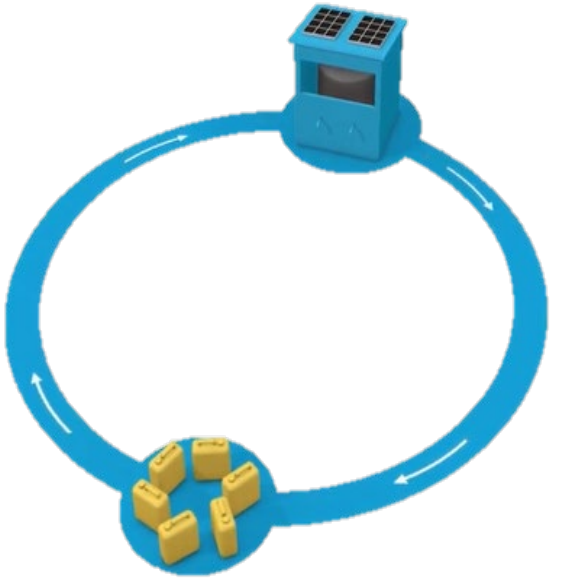
One step higher for convenience and 24/7 access to water, INUMA ™ NOW is running water at home.

The Nexus in Numbers

$22,698	1,500	16 mo.
Current Cost in Rwanda	Recommended hhs within 500m	To recoup initial investment when at 100% capacity

43,200	$0.023	$42.02	$1,278
Daily Yield (100%), 12hrs	Price of 20 liters in Rwanda	Daily Gross Revenue	Monthly revenue after COGS

43,200	$0.023	$42.02	$1,785
Daily Yield (100%), 12hrs	Price of 20 liters in Rwanda	Daily Gross Revenue	Monthly revenue after COGS



Job Creation aspects

Kiosk Attendant and Night Guard.

Regional mobile repair technician

Pro-Poor tariff for the BoP

INUMA
PURIFIED CLEAN WATER

Piped water at Home

RIGHT
TO PLAY

INUMA

Professionally
Ran by Youth

Job creation for the youth

1% of world's workforce in Water

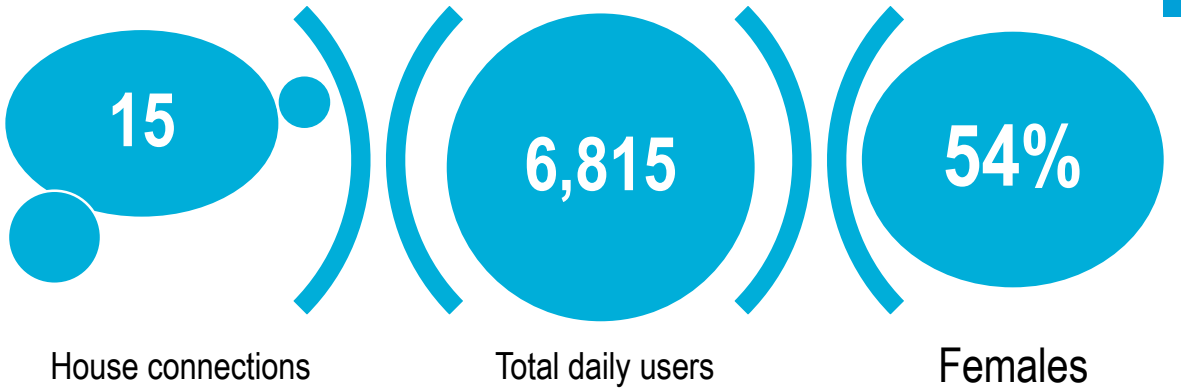
75% of jobs are water-dependent

Increase of access points leads to less lines

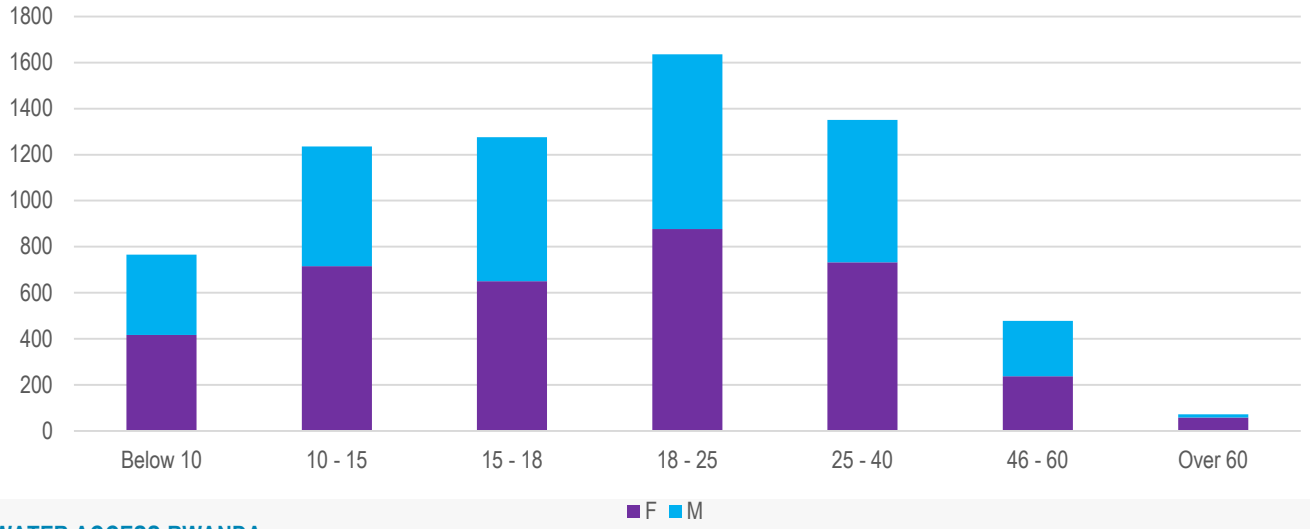
INUMA Users

12,675

people live within 500m of an INUMA.



INUMA Customers by Age and Gender

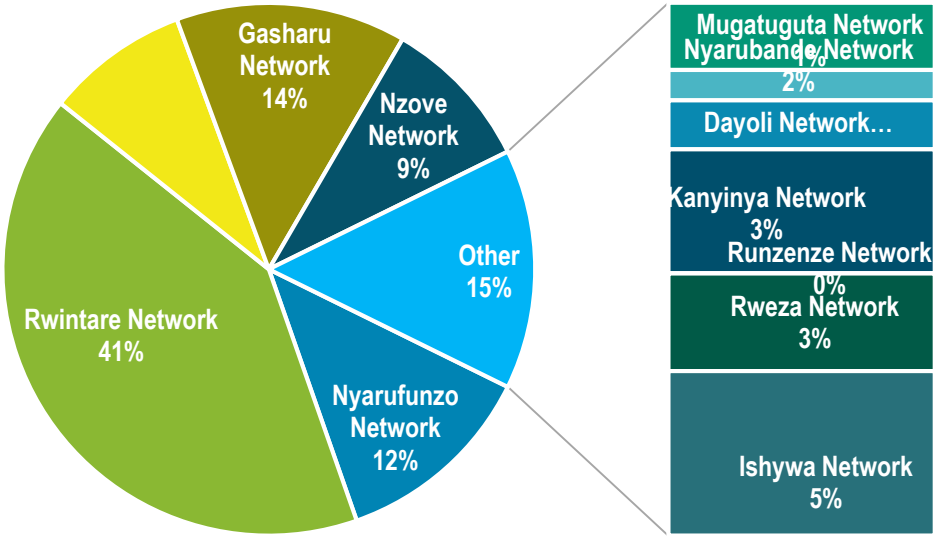


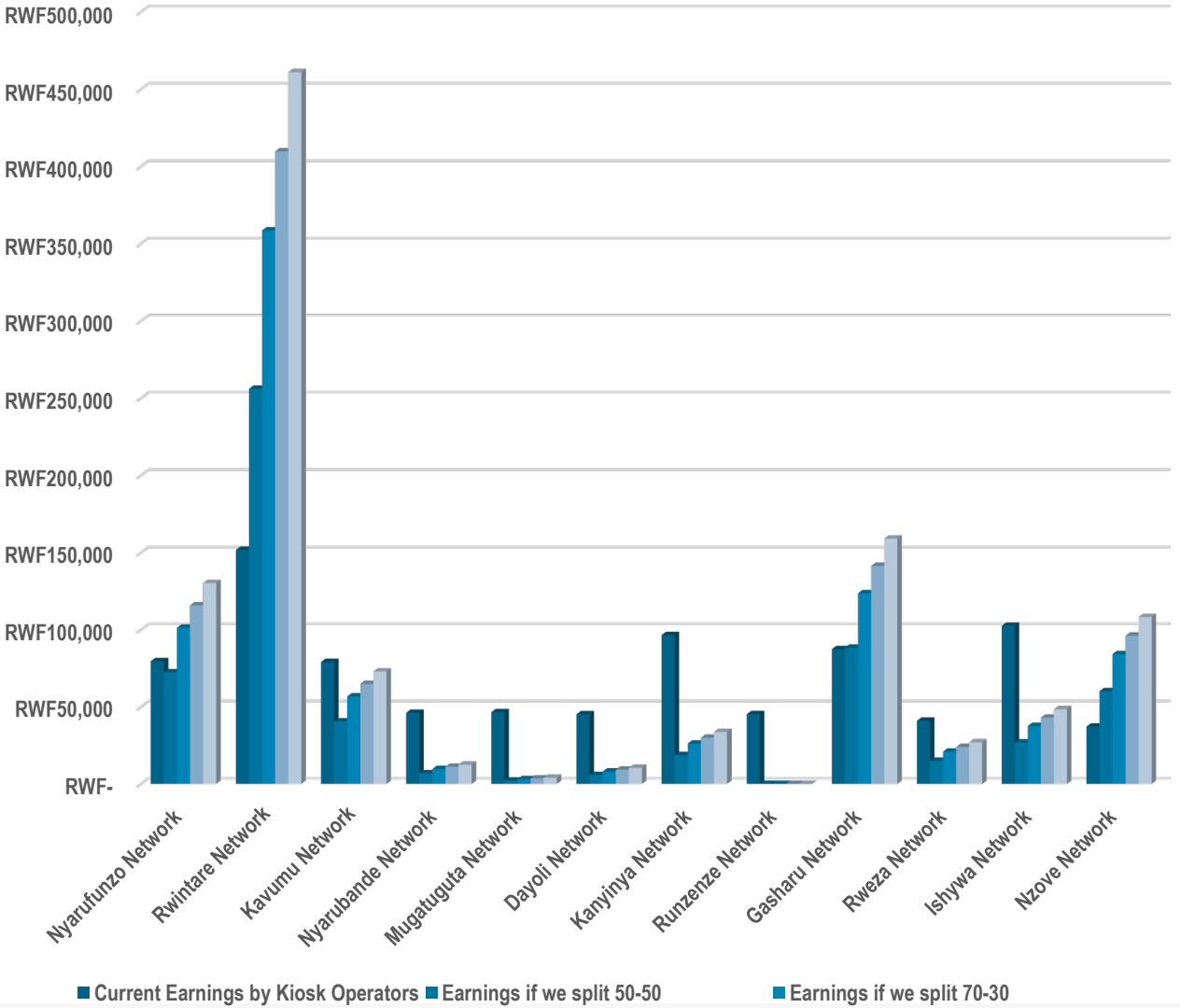
Superior Quality - Great Taste
93.2% of our customers agree

Aspiration Model works for Gender Equality

There is a Need for Cross-Subsidizing to Service BoP

5 networks contribute 85% of the total volume sales. (12 networks considered). While one of them (Rwintare) contributes 41% of all the volume sales. The top 3 performers represent 77% of all volume sales.





Future Milestones

2019 Targets

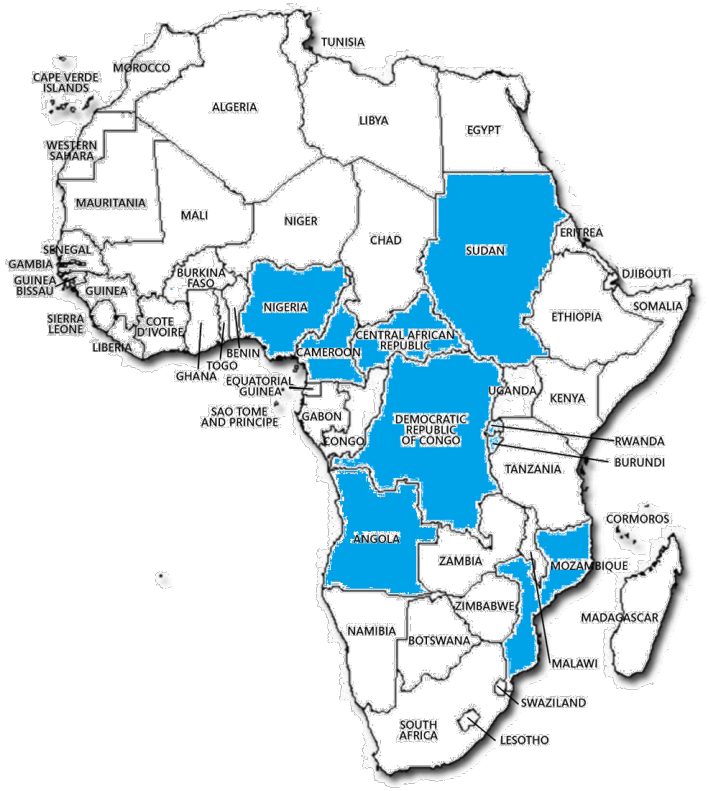
- Connect 100 people in their homes
- Improve individual kiosk performance at above 10% by September 2019
- Break-even on all Kiosks through diversified income generating activities

103

Boreholes to be upgraded to INUMA™ before 2020

490

Systems to cover Rwanda 100% With other providers



Planned Expansion across Africa

BY 2030

جمعية العون المباشر
DIRECTAID

ONE ACRE FUND

Water4

REPUBULIKA Y'U RWANDA
UBUMWE - UMURIMO - GUKUNDA IGIHUGU

LALA SALAMA
SLEEP WELL
Matelas
Dodoma®

Spadel