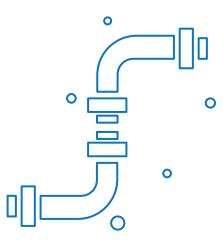


CityTaps' vision is running water in every urban home.

IN PARTNERSHIP WITH MAWASCO, CITYTAPS HAS INSTALLED 600 WATER METERS



Introduction:

CityTaps was established in 2015 to solve a global issue: over 2 billion urban people live without access to running water at home. CityTaps developed CTSuite, which leverages innovative technology - a smart and prepaid water meter and software - and existing mobile money systems. CityTaps and Malindi Water and Sewerage Company (MAWASCO), piloted CTSuite in 2020 in Watamu, Kilifi County, Kenya. This pilot project in Kenya, implemented in partnership with MAWASCO, was fully funded by the FASEP, French General Directorate of the Treasury.

Founded in 2006, **MAWASCO's** mandate is to provide adequate quality water and proper sanitation services to its customers within the Malindi District, in the most efficient and cost effective way.



Research 8020 conducted this quantitative survey to evaluate the impact of the water solution for beneficiaries.

Through this pilot, 600 water connections are now equipped with CTSuites in Malindi.

Main Conclusions:





30% of MAWASCO subscribers feel that their water budget management has improved.



88% said the solution was easy to use.



89% said it was easy to pay by phone/USSD.



User **Profiles**

600
water
connections
equipped with
CTSuite





3010 Direct beneficiaries

(households on average are made up of 5 family members).



758 Indirect beneficiaries

(21% of households share their water with 2 to 10 other people).

3768 people now have sustainable access to water, using CTSuite PAYGO system.

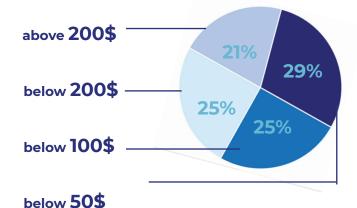
54% of the people impacted earn less than US\$100/month.

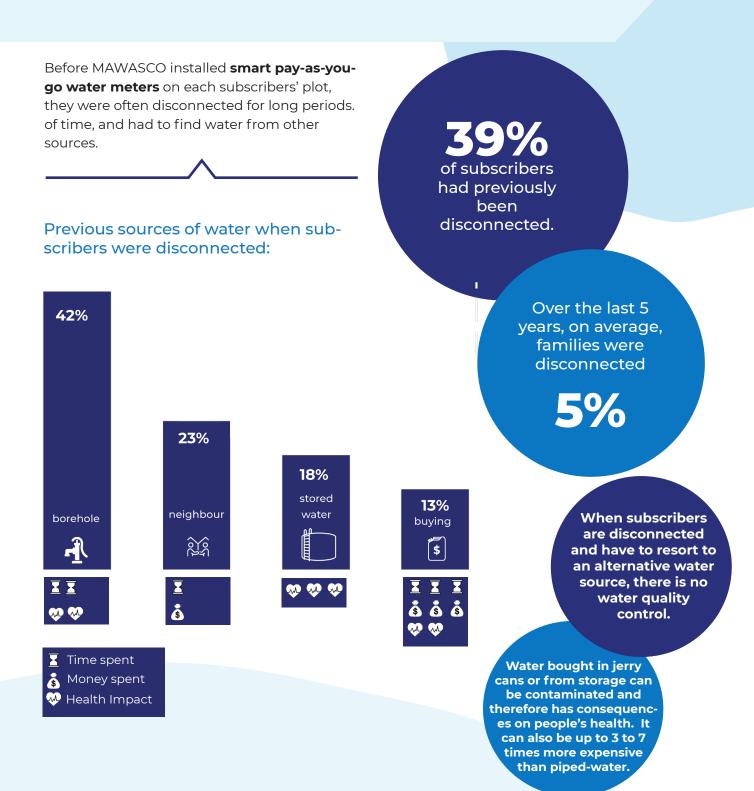
Households disconnected for high arrears can pay up to 3 to 7 times more for alternative water sources than regulated, utility piped water tariffs. Water access at home is both cheaper and of better quality. CTSuite guarantees upfront payment in a way that subscribers can sustainably afford (any amount, any time, with any phone). This solution is ideal for MAWASCO subscribers who do not have consistent or disposable incomes.

Subscriber Monthly Income:



The endline survey was administered to **215 subscribers**, of which:





With reliable water access now at home, MAWASCO subscribers save time. Over the past five years, for the 18% who have been disconnected for more than 4 days because of accrued arrears, this means they no longer have to fetch water with heavy jerrycans from the borehole (42%) or from their neighbours (23%). With CTSuite, water is easily available, more convenient, less stressful and means subscribers do not find themselves without water for any period of time.



Global Satisfaction with the PAYGO Solution

By switching to MAWASCO's PAYGO solution, subscribers see the advantages: they gain time, money, and peace of mind.

Positive impacts:



Better Budget Management



PAYGO solution is free of charge

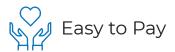


Automatic disconnection and reconnection after payment (no human intervention)



Less Stress





With CityTaps' CTSuite solution, beneficiaries are able to use mobile money to prepay for running water at home with any mobile phone, at any time, for any amount, and improve their household budget. At-home water is available to even the poorest residents who can buy water as and when they need.



COVID and the **Importance of Water Access** At Home and the **Digitalization of Water Services**

Safely managed water, sanitation, and hygiene (WASH) services are an essential part of preventing and protecting human health during infectious disease outbreaks, including the current **COVID-19 pandemic.**

Water access at home means improved hygiene and better health. Water from alternative sources (tankers, delivery services, standpipes, unimproved sources) is often untreated or becomes contaminated after being stored in dirty containers.



Tap water means subscribers have more water available for different uses (drinking water, cooking, bathing, laundry, cleaning..)



Access to handwashing facilities at home - one of most effective ways of keeping diseases like COVID at bay



To fight viruses, families have highlighted their increased desire and need to have water at home to slow the spread of contamination by avoiding contact



By using Mobile Money for sustainable access to water at home, sub scribers do not have to go to the water utility office, bank, post office or agents to pay for their water which means less contact with people and less risk of infection

Digitalization of Water Services



Automatic meter reading allows for utilities to monitor water consumption remotely, without exposing their field staff to the risk of contamination.



The remote meter reading also means that invoice collection is fully automated.



Payment by Mobile Money reduces over-the-counter payments and reduces exposure of cashiers and population to the risk of infection.



From the central software platform, the system allows rapid water tariff change implementation. For example, during the COVID pandemic, it was easy to comply with government requests and make the first six meter cubes of water free.

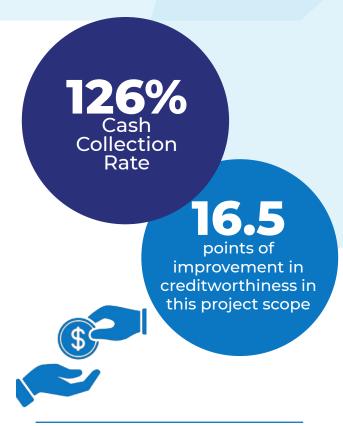


Pay-As-You-Go leads to a Positive Cash-Flow



Thanks to subscribers' pre-payments, MAWASCO is able to improve its financials to serve 100% of its subscribers, 100% of the time by helping them reduce accounts receivable from low-income households.

Subscribers disconnected for high arrears have been reconnected to the network and make small daily micropayments towards their accrued debts.



Potential to Optimize Operational Expenses

CTSuite avoids manual monthly meter readings, manual water access opening and closing, invoicing, and payment collection. Through an Automated Metering Infrastructure, smart meters ensure automatic data collection in near real-time which reduces the OPEX, avoids data errors and identifies non-revenue water causes more rapidly (meter inaccuracies, fraud attempts, leaks etc..). Improving the efficiency of a utility like MAWASCO helps them to save money and time which they can invest more appropriately. Studies to quantify OPEX savings resulting from CTSuite deployment are still underway as of this report's publication.

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We had good technical support from CityTaps and good financial support from Untapped. Now our meter readers have turned into problem solvers. The customer care have become data analysts and experts. The debt collectors are now focusing on repayment plans.

Kingston Mulewa Audit Manager and PAYGO Project Manager, MAWASCO



Adapting the PAYGO solution to the local environments and to each individual utility's special needs



Today, CityTaps is running projects in **Niger, Namibia, Senegal, Burkina Faso, Rwanda & Kenya**.