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SUSTAINABLE DEVELOPMENT GOALS

Improving Access to Water and Sanitation through DIGITAL FINANCIAL INCLUSION

2.1 billion people lack access to consistently safe drinking water.1

THE OPPORTUNITY

Digital finance enables water and sanitation providers to serve low-income households, while also supporting the sustainable expansion of utility networks.





In many countries, water providers who rely on cash struggle to serve rural customers because **metering**, **billing**, **and payment collections are slow**, **costly**, **and insecure**.²

Utilities in many countries barely cover their
costs: The ratio of revenue to operating expenses
in 2014 was just 1.09 in low-income countries
pay

People in some emerging economies face **prohibitively high costs** to access basic sanitation or safe water in their homes. Upfront costs can often equal the monthly income of poorer households.⁶

compared to 1.42 in high-income countries.4

Using digital channels for metering, billing, and collections **lowers operating expenses**, **secures cash flows**, and enables providers to expand **safe water** access to rural customers.³

Pay-as-you-go water ATMs and smart meters can help utilities to **reduce late** payments, reduce water use that is not paid for, and sustainably expand access.⁵

Micro-loans and *layaway* products can help bring safe, **sustainable services** within reach for low-income households. Digital wallets can make it easier to save and pay for water and sanitation upgrades, ultimately saving lives.⁷



"Ensure availability and sustainable management of water and sanitation for all."

GHANA By introducing digital payments and prepaid smart meters, Safe Water Network more than **doubled its per-liter payment collection rate** between 2016 and 2017, helping the company sustainably expand access to safe drinking water.⁸

KENYA Digital billing and payment services developed by software company Wonderkid helped a Kenyan water utility to increase its revenue collected by 28% in 18 months.⁹



TANZANIA A water payment's digitization project resulted in tripling water utility payments and reducing water collection waiting time from 3 hours to 10 minutes

on average within a year, benefiting women in particular. 10,11,12

BANGLADESH The national government and the World Bank have partnered to support micro-financed installation of hygienic toilets, leveraging mobile money for loan repayments. 16,500 toilets were installed in 2017, with a long-term goal to reach 170,000.¹³

 * These represent only a few of the many important challenges and solutions. They should not be read as an exhaustive list.







