







World Bank Digital Water Program and its Cases

Jean-Martin Brault

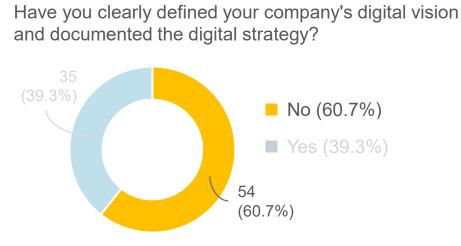
Senior Water Supply and Sanitation Specialist World Bank

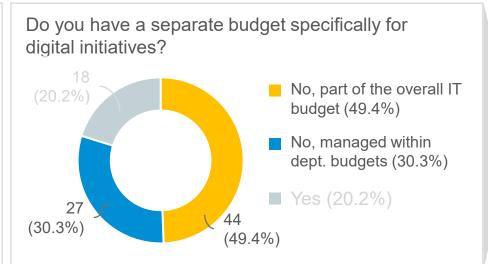


Current State

Most utilities are still in early stages of digitalization







Key message 1

The majority of WSS utilities in LMICs have yet to formalize their digital strategies and allocate dedicated budgets



*This data comes from the World Bank Digital Water team's 2022 Global Digital Maturity Survey, conducted among 89 water supply and sanitation utilities worldwide—primarily in low- and middle-income countries (LMICs), with the inclusion of five high-income countries in Europe.

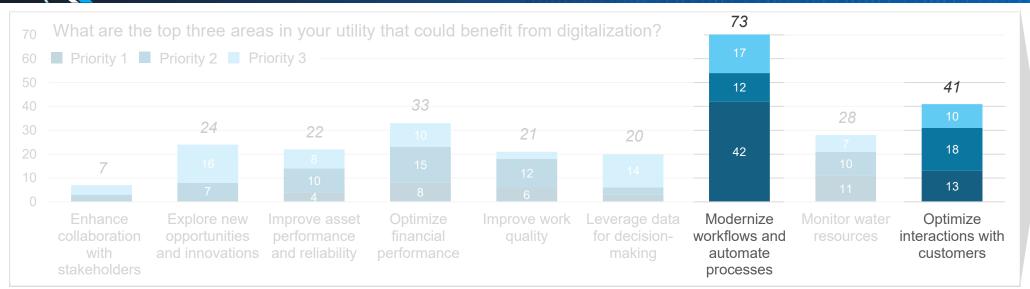
Key message 2

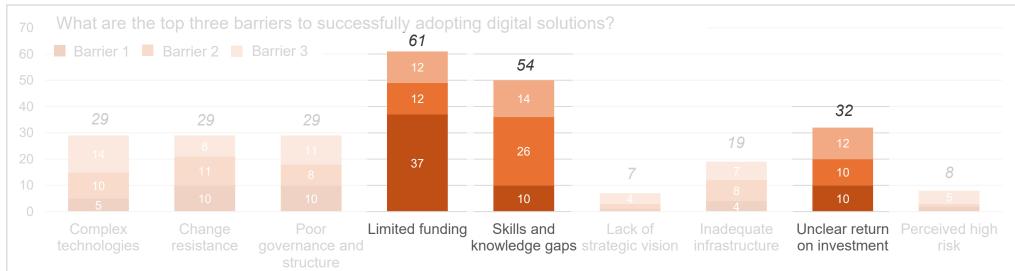
Nearly three-quarters of WSS utilities are at either the tactical or limited stages of digitalization, with only a few achieving full integration

Benefits and Challenges

Most utilities are still in early stages of digitalization







Key message 3

Modernizing
workflows and
customer interactions
are the highestpriority areas for
digital investment

Key message 4

Limited funding, skills gaps, and unclear ROI are the leading obstacles to successful digital transformation



Digital Water Journey: WB's structured support for LMIC utilities on the path to digital maturity





Digital Maturity Survey

15-minute survey and a brief benchmarking report to identify starting points for digital transformation



Digital Maturity Deep Dive

Customized roadmap for digital transformation based on pre-identified sub-dimensions, which includes priority activities, budget and timeline







Engaging with the Clients

Digital Initiator

3-hour assessment to identify digital sub-dimensions for roadmap development using Digital Maturity-Deep Dive tool

Digital Water Training

1-Week Training

In-person 1-week training among the utilities that completed the Digital Initiator, joined by digitally advanced partner utilities

Digital Recipes

Digital recipes (guidance notes) for current and future challenges (e.g. NRW) using best practices and solutions



Capacity Building Essential for Strengthened Project Support (including K-water collaboration)





Participating utilities

AySA (Argentina), CORAAMOCA (Dominican Republic), ANDA (El Salvador), SEDAPAR and OTASS (Peru), REGIDESO (Burundi), REGIDESO (DRC), SEG (Guinea) and Kafubu Water and Sanitation Co. (Zambia).

Training in Daejeon, South Korea (Dec 2024)

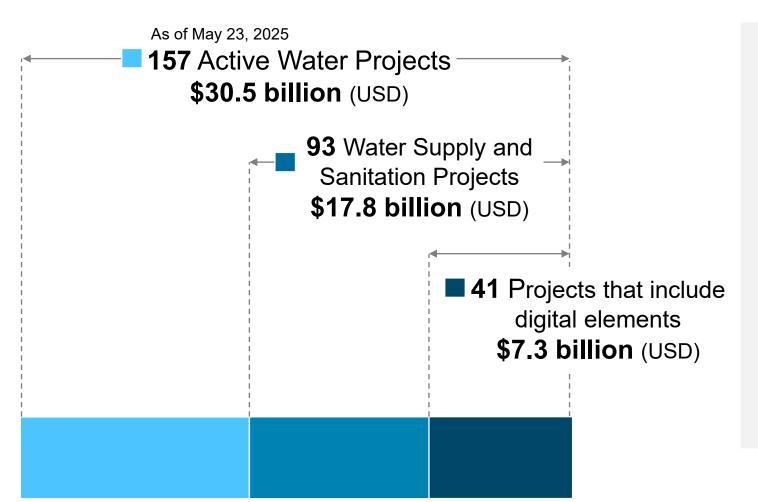
Participating utilities

MAWASCO (Kenya), SODECI (Côte d'Ivoire), UKT (Albania), BWSA (Cambodia), Solomon Islands Water Authority (Solomon Islands) and the National Water Supply and Drainage Board (Sri Lanka), Ludhiana (India)

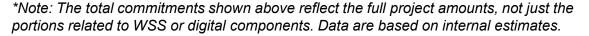


What we've built so far

Operational Insights from World Bank Water



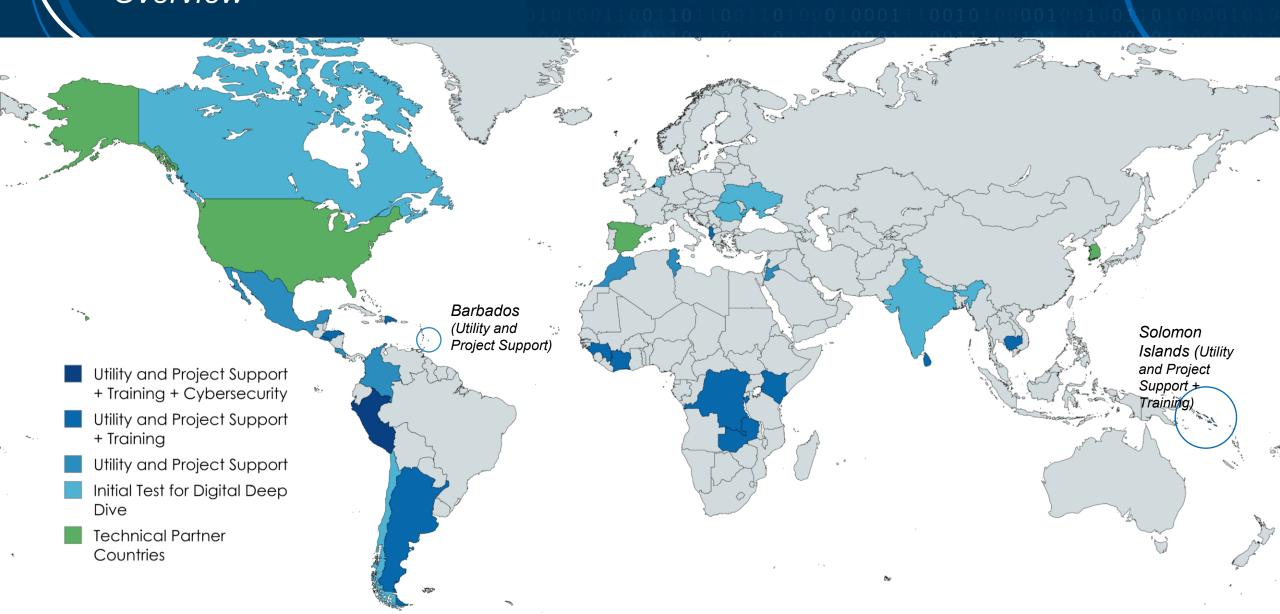
Out of 157 active World Bank water projects, about 41 include digital components for water supply and sanitation, most of which focus on SCADA and GIS upgrades. **The Digital Water Program emphasizes** building integrated digital infrastructure and governance, covering data management and governance, institutional and legal frameworks, workforce and capacity development, customer engagement, and automated operations and maintenance.





Integrated Operational Support under the Digital Water Program Overview





Integrated Operational Support under the Digital Water Program *Examples 1*



Country	Project	Scalable Solution	Details of Engagement
Peru	Modernization of Water Supply and Sanitation Services project (P157043)	Scaling Digital Strategies Nationwide through Multi- Level Engagement with Utilities and National Entities (Regulators, ministries, etc.)	 The support began by helping Cusco's utility (SEDACUSCO) in developing its first Digital Strategy, which led to successful engagement with three additional utilities and Peru's technical regulator, OTASS. OTASS was trained to replicate this approach nationwide and played a key role in scaling the digital strategy across the country. Additionally, collaboration with the Ministry of Housing, Construction, and Sanitation (MVCS) is underway to implement the first Water Sectoral Cybersecurity Maturity Model (SCMM).
Guinea	Guinea Water and Sanitation Project (P179017)	Digital master plan/roadmap implementation, revenue management, mobile-based payments	 SEG participated in the digital training in Spain The project implements a comprehensive digital transformation for SEG (national water utility in Guinea), including smart meters, SCADA/remote monitoring, NRW reduction, data-driven operations, and digital corporate tools. It also strengthens mobile payments, digital customer platforms, staff capacity, digital governance, and stakeholder communication to enhance service delivery and transparency.

Integrated Operational Support under the Digital Water Program *Examples 2*



Country	Project	Potential Solution	Details of Engagement
Solomon Islands	Solomon Islands Urban Water Supply and Sanitation Sector Project (P165872)	Digital solutions for NRW covering technical losses, commercial inefficiencies, and data-driven improvements	 SIWA participated in the digital training in Korea training program The program guides SIWA (Solomon Islands Water Authority) in applying a structured digital "recipe" for NRW management, covering GIS and hydraulic models, pressure and leak monitoring, network sensorization, DMA/PMA management, and remote control systems. The program also supports staff training, strengthens digital governance, centralizes operational data, and facilitates stakeholder collaboration to improve service delivery and reduce water losses.
Tanzania	Sustainable Rural Water Supply and Sanitation AF (P177128) and Phase II (P508698)	Centralized data governance solution for water supply and sanitation sector operations and decision-making	Support to the Government of Tanzania in developing and managing a centralized Data Monitoring and Visualization (DMV) tool that integrates nationwide data on rural water and sanitation services across households, schools, and health facilities to monitor PforR targets, performance, and impact, while strengthening data governance, security, stewardship, and analytical capacity across RUWASA, MoW, MoH, PO-RALG, and MoEST for sustainable tool management and sector decision-making.







KGID Green Growth:
The Path to
Sustainable Jobs

Thank you!

