Water Network Monitoring

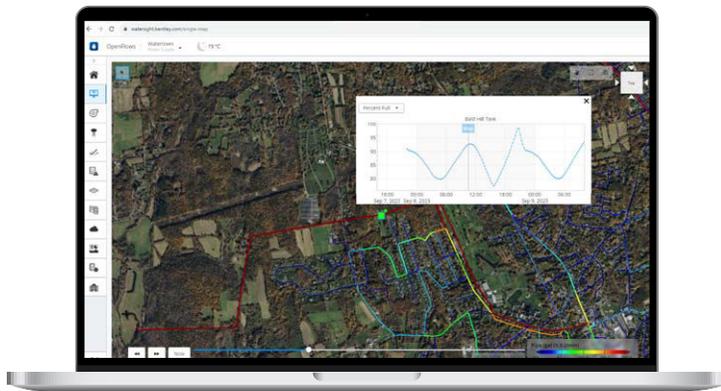### DIGITAL TWIN SOLUTION FOR WATER DISTRIBUTION SYSTEMS

Does your water utility rely on vast amounts of data spread across siloed systems and different departments to make informed decisions? By implementing a digital twin solution for your water distribution system, you can integrate systems, analyze disparate data, and gain actionable insights to improve network monitoring, optimize operations and energy consumption, deploy effective maintenance and capital plans, and ensure safe and reliable services.

DATA SILOS AND MANUAL PROCESSES

Lacking centralized data impacts water utility operators' ability to efficiently manage emergencies and network events. It also keeps them from effectively prioritizing repairs, preventing delays, and making quick and informed decisions. When a network event occurs, such as a pipe break, operators often need to access critical data from multiple, separate environments and then manually analyze this data, sometimes taking hours or days.

IMPROVE VISIBILITY, MAKE BETTER, FASTER DECISIONS

A digital twin can help water utilities simplify operations and overcome the complexity of siloed systems by integrating and analyzing disparate data sources—SCADA, Internet of Things (IoT), GIS, hydraulic modeling, client information, and historical data—into an evergreen digital twin – a virtual replica of the physical world. The result is an effective and efficient operations strategy that prioritizes interventions, aids long-term capital planning decisions, decreases risk, and ensures the delivery of safe, reliable water supply to customers.

KEY BENEFITS

- Centralization of critical data in a single environment
- Analysis of real-time and historic system performance
- Operational insights and predictive analytics for smart decisions
- Reduction of nonrevenue water, energy use, and service interruptions
- Faster response to any anomaly and consequently increasing customer service
- Ability to share data quickly and smoothly between teams to improve collaboration
- Prioritization of assets to replace with proactive network management

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