Digital Water

A Global Issue

Globally, nearly all countries face a growing **funding gap** as they try to keep up with the rehabilitation, operation, and maintenance of aging water infrastructures.

New water systems must be built to cope with **growing populations**, shifting **consumption patterns**, and a changing **climate**.

In developing countries, public and private investment has not kept up with **demand for water infrastructure**, which increases costs in the long-run.

Sources:
American Water Works Association[1]
American Society of Civil Engineers[2]
Deloitte[3]

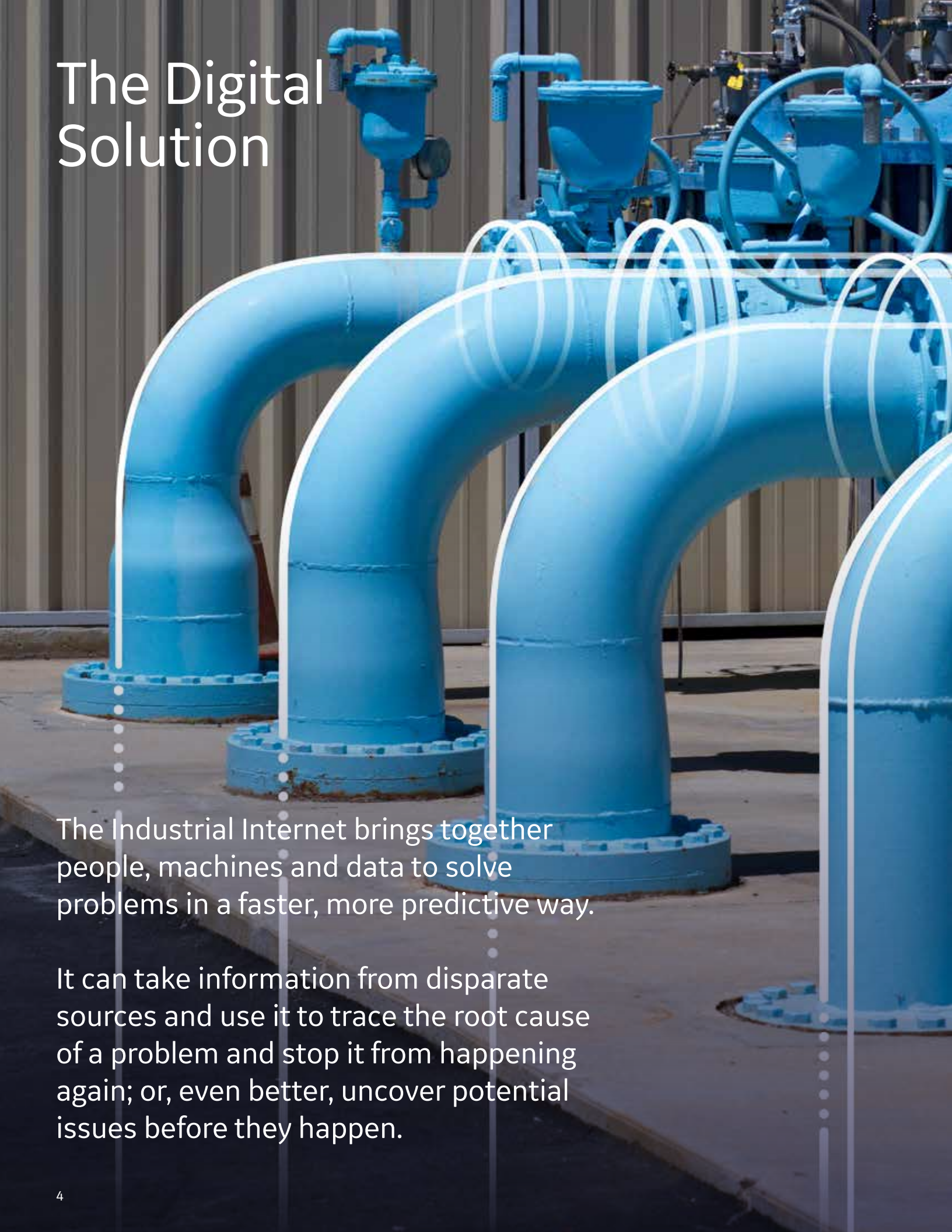
Challenges and Costs

Some inherent qualities of water infrastructure have allowed it to be neglected over time:

- Most obvious, the **physical assets are invisible**, often buried underground. Further, there is a lack of baseline data/knowledge on pipelines – including mapping, piping material, size, or installation dates. This forces water utilities to operate in a very reactionary way.
- The majority of assets are managed at the local/municipal level. This **highly decentralized network** makes **data collection and information sharing** a challenge. This is compounded by the aging workforce that presents risk to institutional knowledge for these disparate systems.
- Providers are often unaware of an issue, such as a pipe burst, until it literally surfaces. **Without real-time insight** into network infrastructure conditions, **operators are trapped in a negative reactive cycle**.

Sources:
African Development Bank Group[1]
Water & Wastewater International[2]
China Water Risk[3]

The Digital Solution



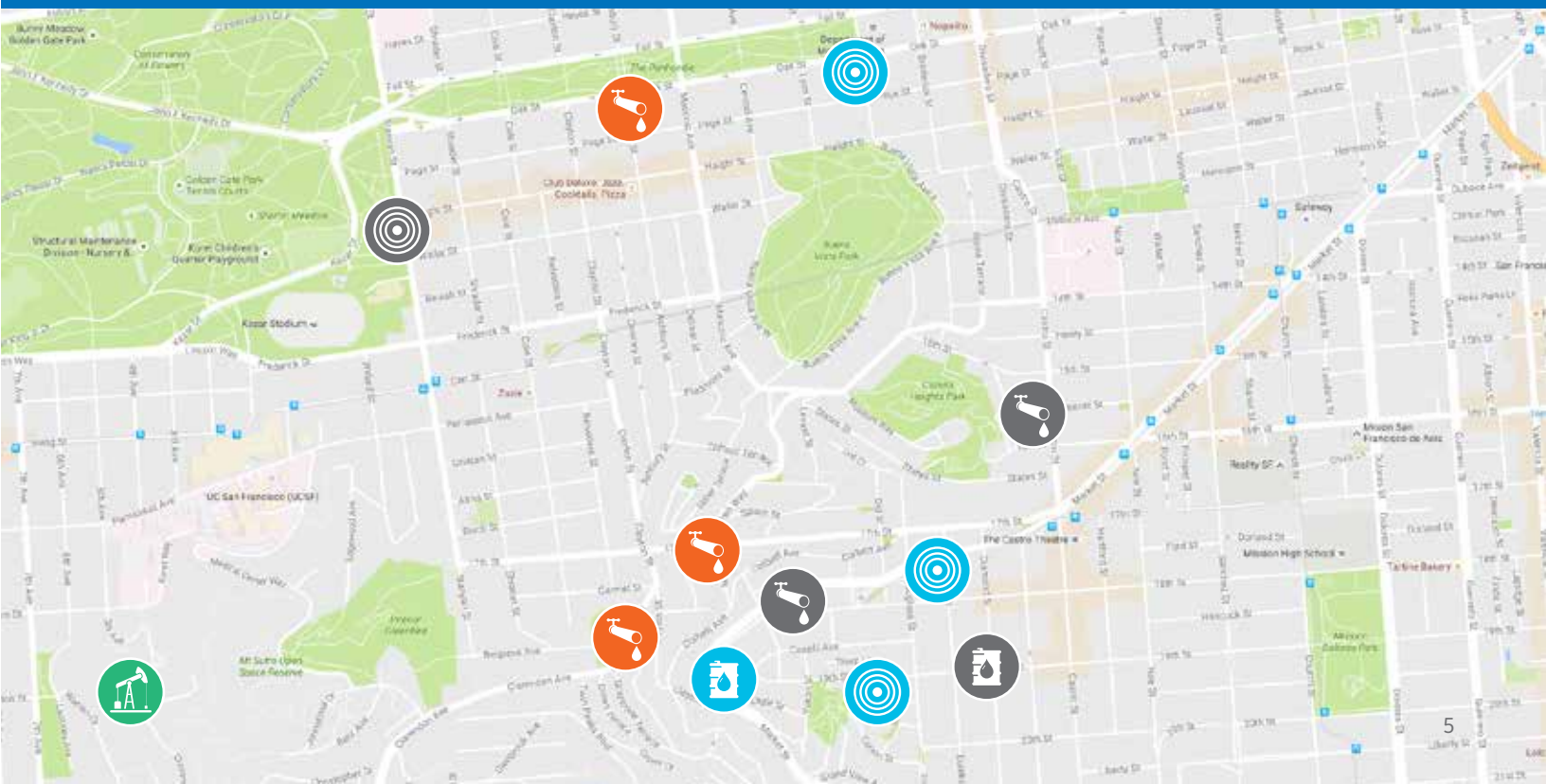
The Industrial Internet brings together people, machines and data to solve problems in a faster, more predictive way.

It can take information from disparate sources and use it to trace the root cause of a problem and stop it from happening again; or, even better, uncover potential issues before they happen.

Customer Benefits

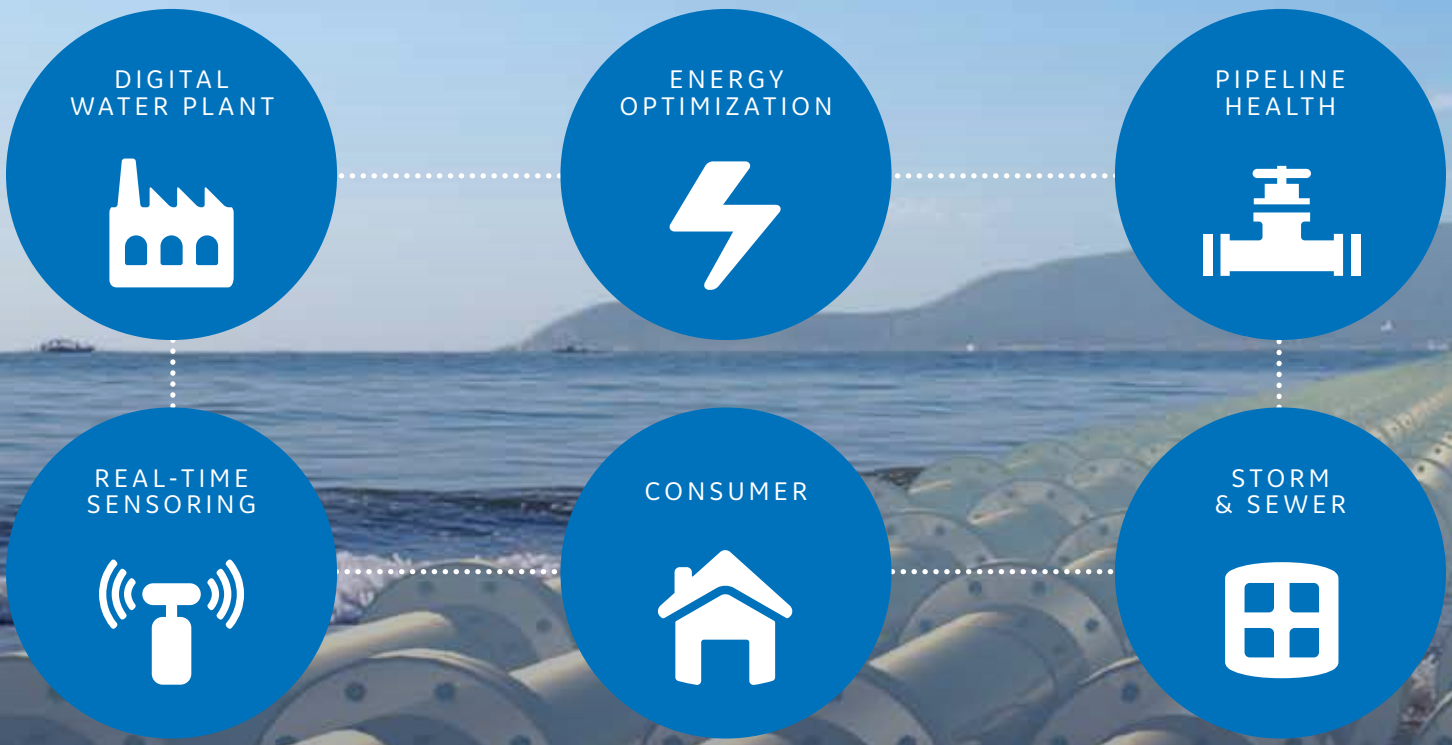
Our goal is to **build a more sustainable water future** by delivering software-as-a-service (SaaS) through a single platform to produce operational efficiencies that **improve water quality and availability** worldwide. By utilizing a **single-platform approach** for data collection, management and analysis, we are able to help water utilities shift to a **proactive** service model.

Utility Priorities	Opportunities
Deliver Drinking Water • Reliability + Security • Public perception and transparency	**Deliver real time network overview without additional CAPEX**
Reduce Non-Revenue Water • Leakage Management	**Next generation software that goes beyond simple anomaly detection**
Reduce Operating Costs • Labor + Energy	**Leverage predictive analytics to proactively deploy resources**
Join Disparate Data Sources • Flow + Pressure + Demand + Labor + Network Mapping	**Streamlined data management – device agnostic data aggregation**



Our Suite of Software-Enabled Solutions

Water & Process Technologies combines our **decades of experience** in water treatment and digital asset optimization with **cutting-edge Industrial Internet solutions** to address the biggest water infrastructure challenges across the globe.



Our Digital Water solutions connect “inside the fence” plant operations with “outside the fence” distribution networks to **optimize the holistic treatment and delivery lifecycle** for drinking and waste waters.

Municipalities and water utilities worldwide can use a seamless **software solution set** to put their data to work, addressing aging infrastructure, manpower constraints, and water conservation.

To learn more, visit **www.gewater.com/digital**

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