Overcoming challenges

How water utilities can use data and **lloT** devices



72%

of utilities report that aging infrastructure is the biggest challenge they face.

Civil Engineers report

The American Society of

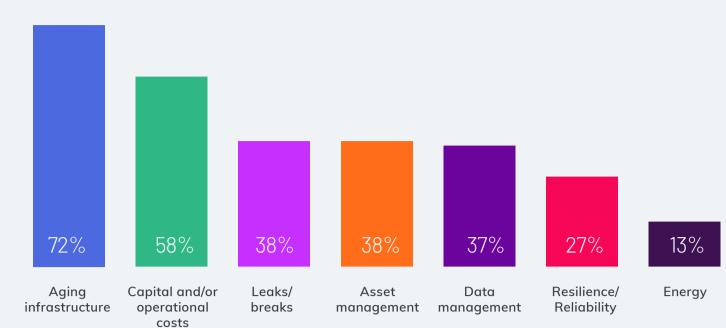
water main breaks every year, with a cost of over \$2.6 billion a year.

can Society of Civil Engineers 2017 Infrastructure Re

\$1 trillion

in investment is needed over the next twenty-five years to maintain and expand services to meet demand.

Primary challenges facing water utilities

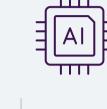


data to tackle challenges like maintenance, water safety, asset health, and operational efficiency.

Utilities are increasingly turning to software, IIoT devices, and









Data

visualization





management

Data

analysis

Data



optimization

As with any newer technology there are still concerns around IIoT devices and data.

Areas of concern for IIoT devices

The biggest concerns around the deployment of IIoT devices are network security (67%) and data privacy (62%). Data analysis capabilities (54%), realistic efficiency opportunities (51%), and sufficient budget (47%) concerns also highlight utilities' uncertainty about enough investment and properly managing data to drive sufficient ROI.

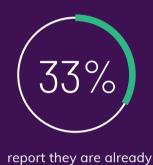


technology.

IIoT is an important



success.



using it.



With such a large delta between the number of utilities that recognize the importance and the number that are already using IloT, it is clear utilities need more education about the benefits.

IIoT device deployment is a cost-effective way to improve asset management, extend asset life, and optimize capital expenditures.

Benefits of deploying IIoT devices

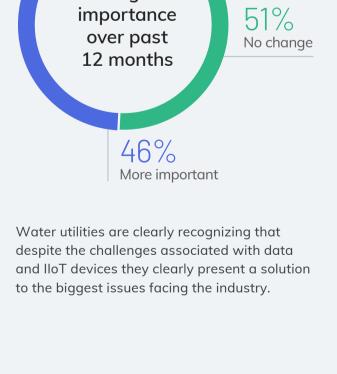
To answer the challenges around aging infrastructure and capital investment,

Operational efficiency 62% Analytics-based decision making 43%

Increased security



No change Less important Change of



3%



43%

Develop a coordinated strategic Create a digitally enabled roadmap that is centered around workforce. Analytics and IIoT

Recommendations



IloT data.

using AI to maximize the benefits of



Training the existing workforce and hiring top quality data professionals will be essential for utilities to thrive. Develop strong relationship with

require skilled people and processes

to execute effectively.



key vendor partners that can help optimize data management and analytics.



