

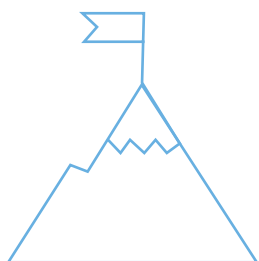


## Case study

# Smart Water Utilities Management for Engineering and Construction Major in India

## Client

The client is a major engineering and construction company in India with global operations. It constructs water supply network, operate, and maintains on Build, Own, Operate, and Transfer basis.



## Challenges

- ☑ Low visibility of the assets outside the plant leading to less efficient water management.
- ☑ Lack of integrated view of operational performance of the water network.
- ☑ Over allocation because of uneven utilization of machineries and hence, lesser productivity.
- ☑ Unable to monitor and control consumption of treatment chemicals, energy, and labor expenses.

## LTIMindtree Solution

LTIMindtree's Smart Water Utility Management Solution on AWS IoT improves visibility of entire water network to bring actionable insights from the operational data. The solution enhances operational efficiency by providing reliable supply network to water treatment plants and optimizes distribution network by accurately forecasting availability of treated water to suffice the demand. The solution enables reduced maintenance expenses by performing real-time asset condition monitoring, and hence, operationalizes predictive maintenance.

### Solution Highlights

Implemented **AWS-powered solution** for real-time monitoring of pump stations, providing complete visibility into the water network.

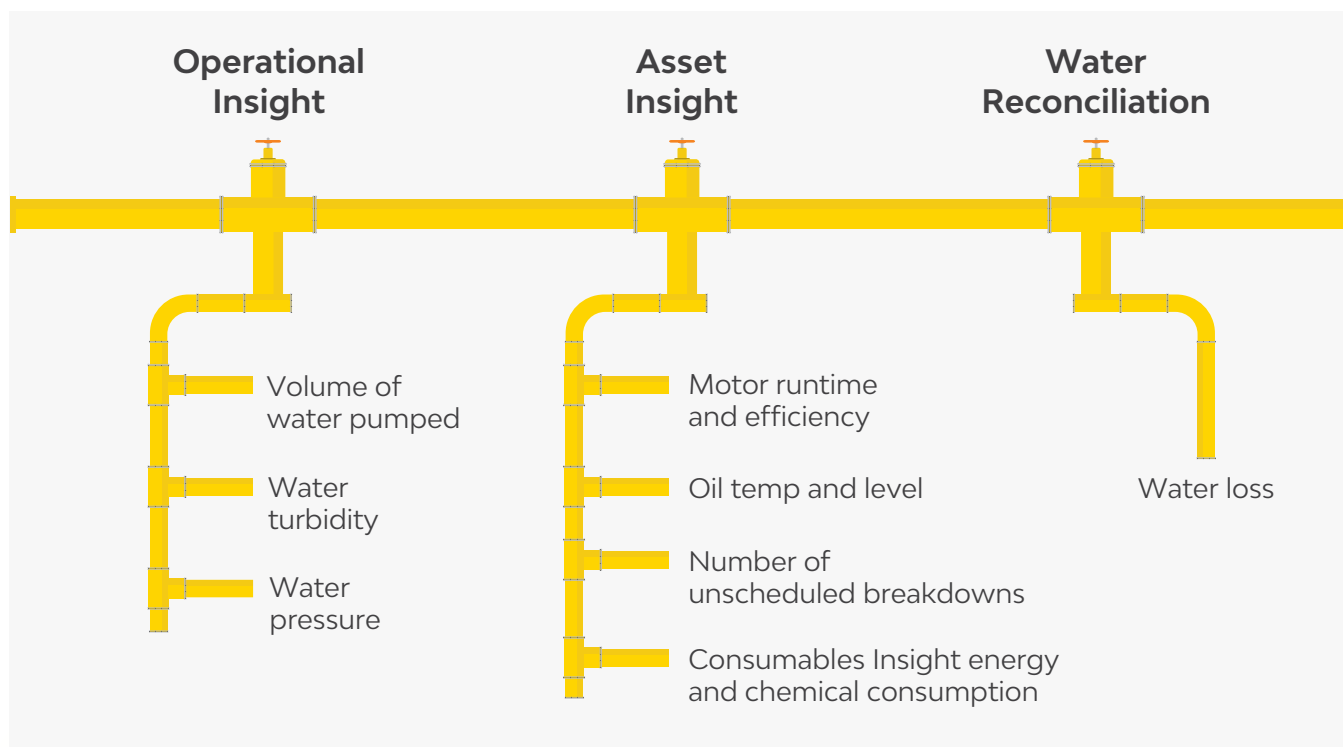
Simulated operation scenarios specific to water supply management for **optimal performance**.

**Integrated with sensors** at pump stations, treatment plants, storage tanks, pipelines, bulk, and domestic water meters, providing real-time equipment information for the complete network.

**Map integration to bring locational analysis** across water supply network and detect probability of leakage based on patterns of water consumption.

Operationalize **predictive maintenance** schedules for maintenance of pumps.

## KPIs monitored



## Business Benefits



**LTIMindtree** is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 84,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree – a Larsen & Toubro Group company – combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit <https://www.ltimindtree.com/>