Operational Insights using IoT

CGI

Improve your operational resilience through IoT monitoring and advanced analytics

Water companies operate large numbers of assets at remote sites with limited visibility. These assets provide an essential service and they need to be operated efficiently and resiliently. CGI's Operational Insight proposition provides access to real-time information on how those assets are performing and allows deeper insight to be gained from advanced analytics.

BUSINESS AND MARKET CHALLENGES

Water companies are heavily reliant on aging infrastructure. These assets must be operated and maintained to optimise their performance and value. They must also be operated resiliently in the face of environmental, extreme weather and other events.

Lack of visibility presents a challenge for companies in understanding how these remote assets are performing. But the availability of low cost sensing devices provides an opportunity that can be exploited.

CGI SOLUTION

CGI's SensorInsights360 product is a device agnostic Internet of Things (IoT) data platform. It is specifically engineered for real-time monitoring for asset intensive organisations. The solution can be used to support a number of operational uses cases, including:

- Water Treatment Watch for real-time monitoring of unattended water treatment plants

- River Water Quality for continuous monitoring and predictive analytics in water catchments

- Smart Water Meter – Top Reader supporting per capita consumption and leakage reduction

SensorInsights360 allows water companies to collect real-time data on asset performance. It is device agnostic and allows the integration of data from different device types. CGI's advanced analytic techniques for predictive analytics, machine learning, and video analytics, generate actionable insight. SensorInsight360 is based on CGI's 30+ year heritage in delivering Operating Technology solutions for the water industry.

Key Success Factors

- A device agnostic IoT data platform to take advantage of the proliferation of low cost sensors.
- Brings visibility to previously unmonitored sites.
- Generates valuable insight from advance analytics
- Can be integrated with OT and work management applications to act upon the insight

BUSINESS BENEFITS

- Provides a low cost monitoring solution to extend visibility to sites where traditional SCADA solutions may be cost-prohibitive.

- Reduces personnel costs for operating remoted sites.

- Increases cost-efficiency in asset maintenance.

- Supports the realisation of environmental targets, improved water quality, and increased societal reputation.

Exploiting the opportunity offered by low cost sensing devices to bring increased visibility of asset operation

About CGI

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world.
We are insights-driven and outcomes-based to help accelerate returns on your investments. Across 21 industry sectors in 400 locations worldwide, our 77,000 consultants provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

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2