

CGI SensorInsights360 for Utilities

Improving  
the lives and  
wellbeing of  
citizens and  
consumers

**CGI**

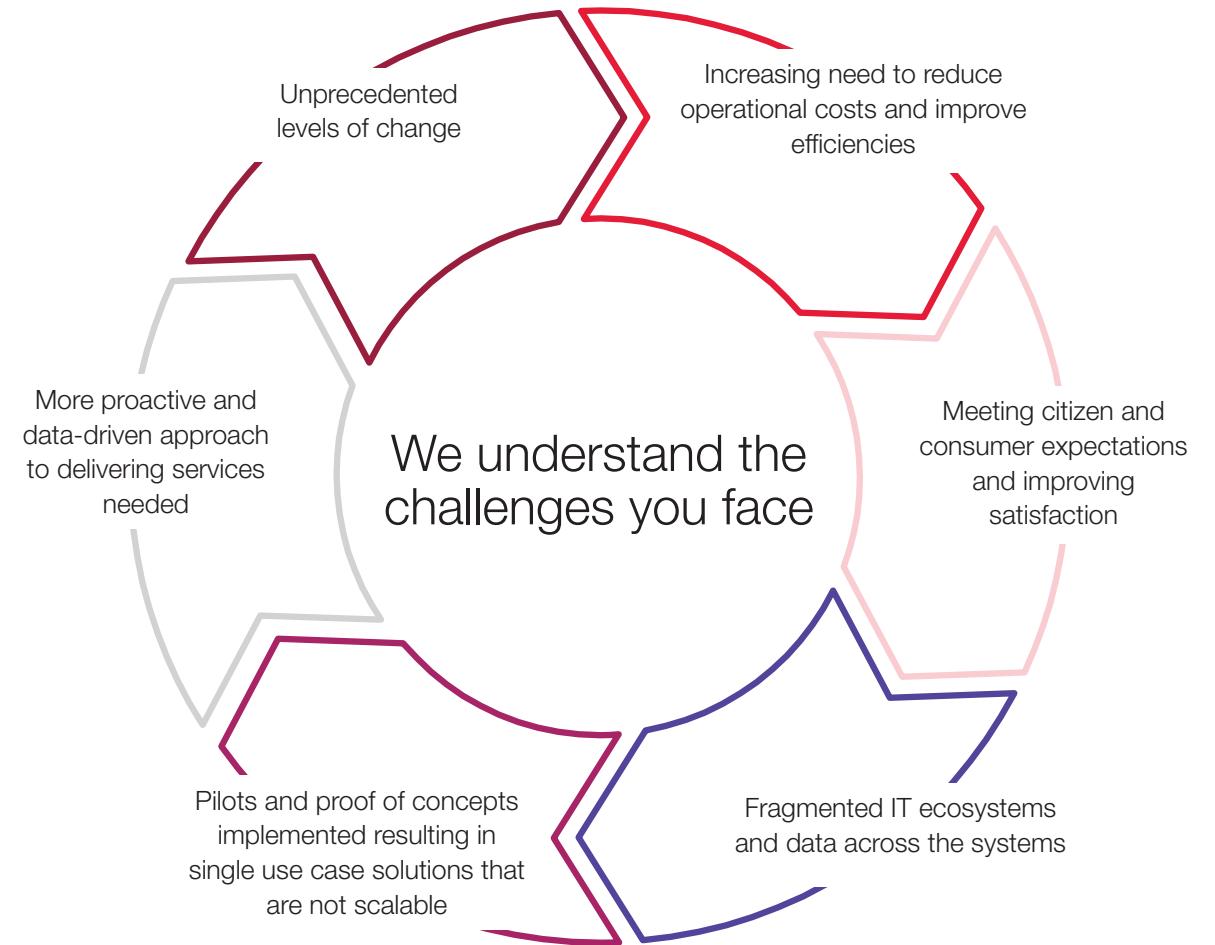


# Challenges

Utility organisations are increasingly expected to deliver more with less.

CGI SensorInsights360 helps energy and water providers achieve their smart utility ambitions and improve outcomes for citizens and consumers. It is a scalable real-time data platform that delivers an end-to-end approach to Internet of Things (IoT) sensors, asset data collection and asset management.

This means you can avoid creating data silos and introducing operational complexity when implementing IoT solutions. SensorInsights360 will allow your utility organisation to easily identify ways to improve operational efficiency whilst proactively monitoring and managing your critical services.



# Our solution

CGI SensorInsights360 is a flexible real-time data platform that delivers an end-to-end approach to IoT, asset data collection and asset management.



# Delivering successful outcomes for citizens and consumers



## Water wastage

Reduce water wastage through leak detection driving preventative maintenance.



## Physical intrusion management

Reduce unauthorised on site presence.



## Work health and safety

Reduce dangers in high risk energy and water production and processing environments.



## Street lighting

Optimise electricity usage for street lighting.



## Waste management

Reduce manual costs and improve quality of waste treatment.



## Asset monitoring

Increase predictive maintenance, reduce costs by monitoring assets in real-time.



## Flooding and blockages

Detect flooding and blockages in real-time to reduce disruption and impact.



## Air quality

Prevent or intervene in real-time to increase safety and reduce complaints.

# Why choose CGI SensorInsights360?

CGI SensorInsights360 can accelerate your organisation's smart utility ambitions, improve operational efficiency and improve citizens' and consumers' lives. Our agnostic and scalable real-time data platform delivers the following key benefits:



Provides more reliable energy and water services and reduced bills for consumers.



Improves consumer health, wellbeing and satisfaction through the optimisation of essential services.



Enables healthier and safer homes with increased sustainability and regulatory compliance.



Rapidly delivers measurable business value, and scale this across the organisation.



Enables real-time responses and adopt predictive and proactive operational models.



Generates new insights that inform data-driven strategic and operational plans.



Reduces costs, improve asset utilisation, and increase operational efficiencies.



Flexible, extendable solution and commercial model that is technology and network agnostic.



Developed and supported by trusted experts with over 40+ years experience.

# Our experience

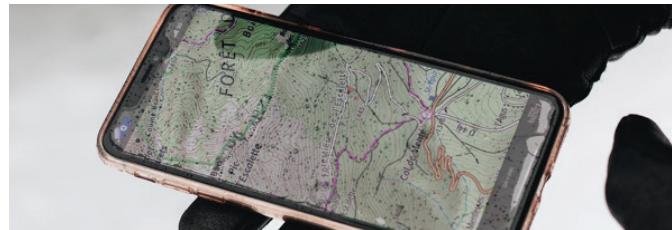
CGI has over 40+ years improving efficiency and citizen/consumer service at the heart of the Utility organisation. Highlights include:

## Real-time monitoring of remote water treatment plants



Water companies have large numbers of unmonitored remote sites. CGI's Machine Vision capability uses neural net AI technology to interpret and recognise videos and photos in a human-like way, allowing specific equipment failure or maintenance issues, and events like site intrusion to be notified in real-time. CGI Water Treatment Watch is a cost effective, way to monitor unmanned sites 24/7, identify potential root causes and take appropriate incident response decisions. Integrated with CGI's IoT platform SensorInsights360, notifications and alerts can be actioned in real-time, reducing operational costs by dispatching teams to incidents with the necessary information and helping the environment by reducing the risk of pollution incidents.

## Using augmented reality and precision data to the relocation of a city



To enable the world's largest municipal relocation, Kiruna required a thorough understanding of the city's infrastructure. CGI created a proof of concept for the "Hidden City." Using GPS-enabled data sources, GIS data from the city, augmented reality and HoloLens glasses, the city could envision underground infrastructure in three dimensions. The Hidden City capabilities continue to be extended to smartphone technology enabling fast, precise, proactive city planning and public works management.

## Project Barnacle: driving innovation in the water industry



An innovative solution exploiting smart technology to improve customers' lives that stemmed from CGI's Design Sprint at the Northumbrian Water Innovation Festival in 2018, Barnacle is a low cost smart monitoring device installed in toilet cisterns that monitors water quality, pressure and temperature. Linked to CGI's IoT platform for visualisation and advanced analytics, it alerts about leakages and the risk of freezing pipes as well as network issues, reducing water bills and overall water usage, and preserving previous resources.

## About CGI

### Insights you can act on

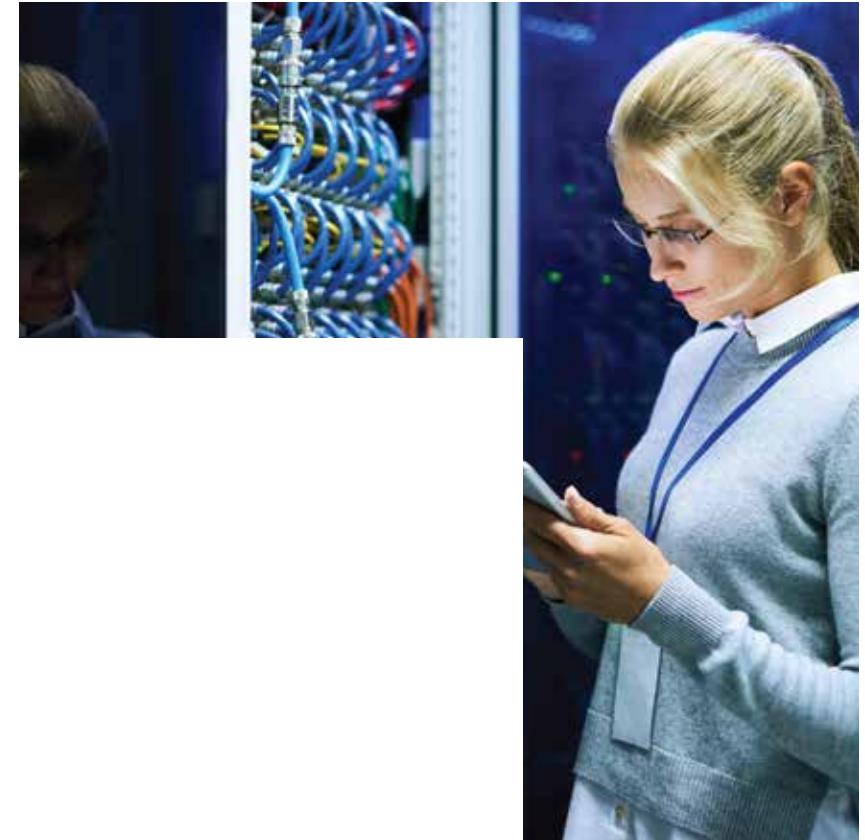
Founded in 1976, CGI is among the largest IT and business consulting services firms in the world.

We are insights-driven and outcomes-based to help accelerate returns on your investments. Across 21 industry sectors in 400 locations worldwide, our 82,000 professionals provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

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