

Commercial Water Metering. IIoT Solution.

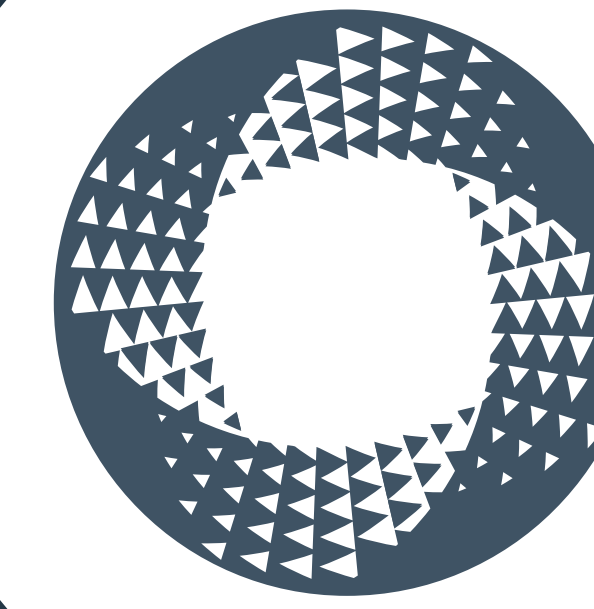
The Need

A major Australian water utility based in New South Wales supplies over 1.5 billion litres of drinking water to over 5.3 million people across residential and commercial premises every day.

With such a sizeable network, the water utility required a scalable, yet cost effective solution to monitor domestic water usage, accurately detect leaks and reduce non-revenue water.

The water utility sought to segment their distribution network into District Metering Areas (DMA) and measure water supply against customer water usage.

Every year the utility saw up to 9% non-revenue water due to leaks. They needed to implement a smart water solution to help reduce that figure, without interruption to their network during the installation.



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Transforming water management through digitisation and intelligent monitoring.



The Solution

1,000 Captis Pulse Lite devices were installed across their commercial network to monitor the largest water users. The device was chosen for its ease of installation and ability to integrate with a range of water meters through different sensors.

The Captis Pulse Lite was able to digitise readings from mechanical water meters, creating a smart water network. It was also able to register if a backflow event occurred, proactively notifying the utility through alarms and reducing the risk of water contamination.

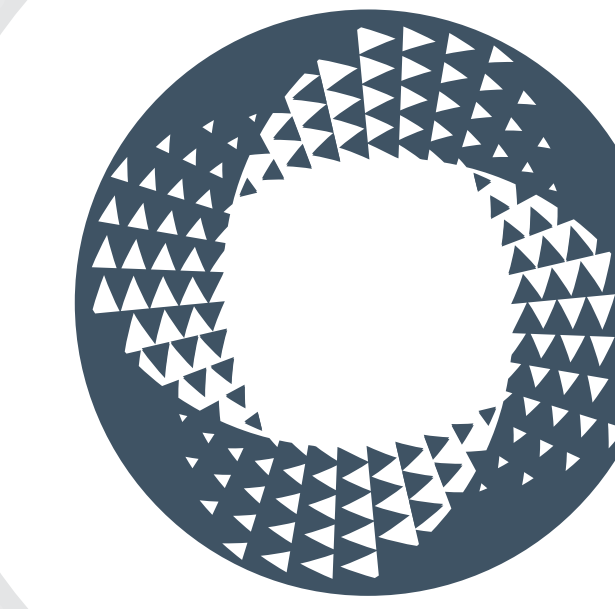
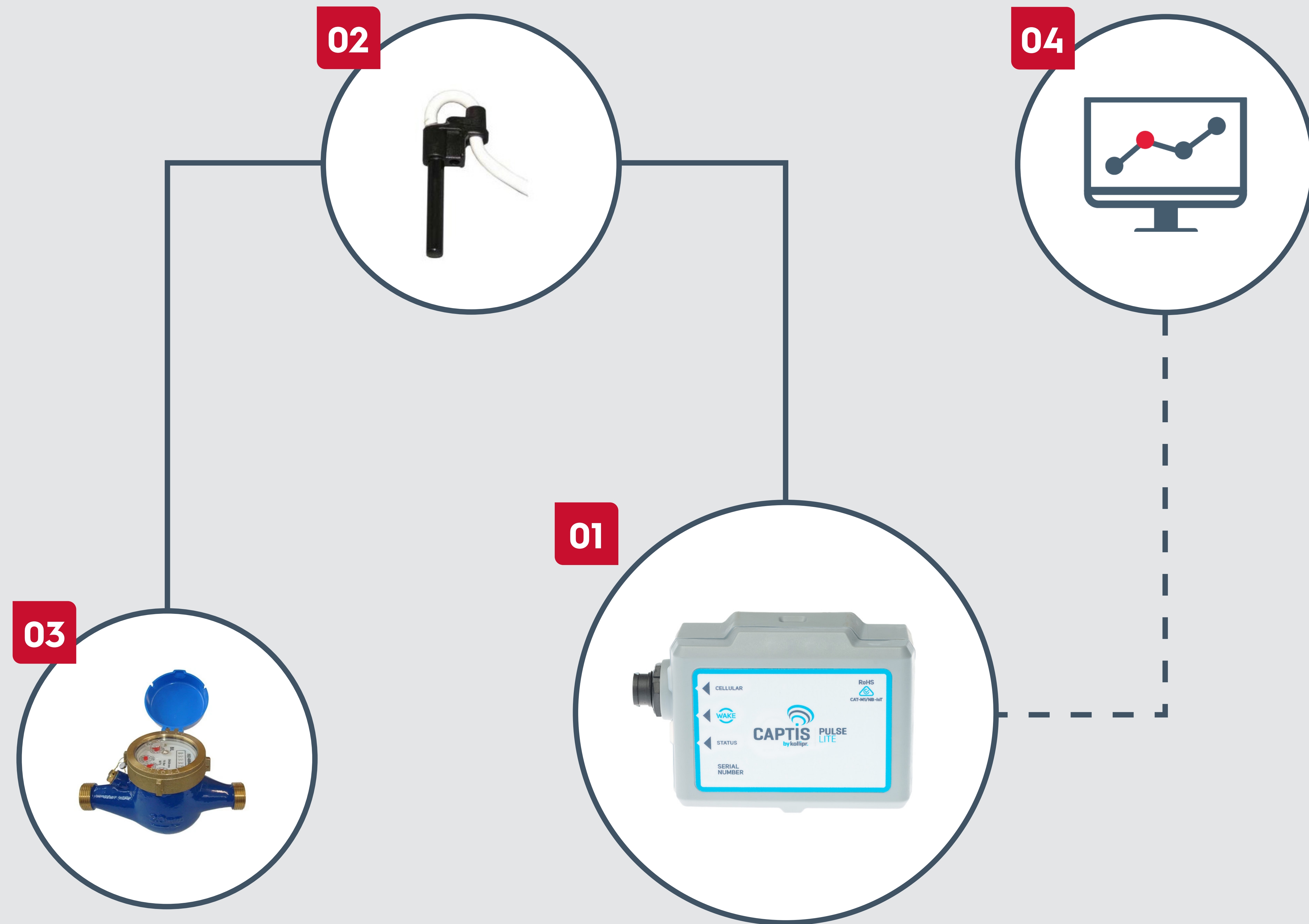
From the data Captis provided, the water utility was

able to see gradual increases in water usage over several months and identify leaks. In particular, the water utility identified leaks on large commercial water meters in low population density areas, which if left unresolved, could cost upwards of half a million dollars in non-revenue water per leak.

Through the solution, they were also able to improve response times to major leaks and have also used the data for water education initiatives with their customers.

Solution Architecture

COMMERCIAL WATER METERING



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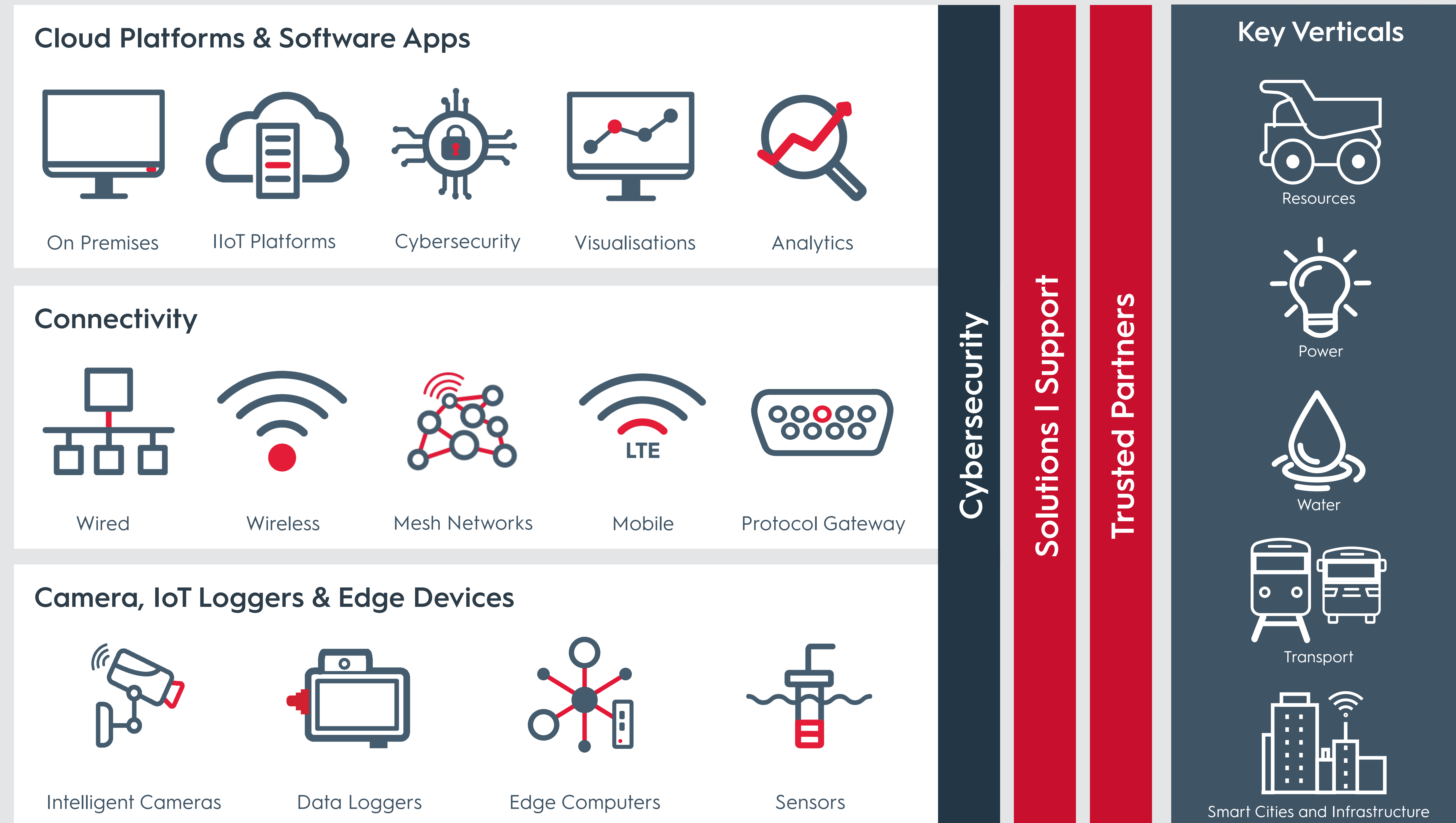
- 01** **CAPTIS PULSE LITE DATA LOGGER**
Incredibly versatile, economical, and ideal for deployment at scale, the Captis Pulse Lite provides the edge in water and wastewater industry applications.
- 02** **HALL EFFECT SENSOR**
Hall effect sensors leverage magnetic fields to determine factors such as positioning, proximity, displacement, speed, and current.
- 03** **PULSE WATER METER**
Pulse head water meter for measuring the volume of water passing through pipeline systems.
- 04** **MT COCKPIT IOT MANAGEMENT PLATFORM**
IoT platform for remotely managing all your devices, giving you visibility and intelligence from data visualisation and reporting.



Critical operational environments require specialist understanding



Technology Stack



With a 30-year legacy of providing resilient industrial technology solutions, we're familiar with many of the challenges the industrial sector faces as it embraces digital transformation to better understand and manage resources, improve safety, and increase efficiencies.

Our experience connecting and protecting people, assets and the environment, combined with our industry leading technology portfolio, means we're the preferred partner for IIoT, industrial networking, cybersecurity, asset management and asset visibility, giving our customers digitally transformed critical operating environments that unlock data insights and business intelligence.

