



# Transform your water network

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# Introduction



## Transforming your water network

Managing and maintaining infrastructure is becoming more complex and expensive. At the same time as consumers expect more from their utilities, water itself is becoming scarcer. That's why forward-thinking water utilities are examining how they can use innovative technologies to overcome strategic challenges throughout the water network.

We can help you digitalise your existing assets to give you visibility into your water network and household water consumption. Our Internet of Things (IoT) solutions provide the insights you need to manage your assets more effectively, reduce non-revenue water, predict and prevent faults, and plan for a more sustainable future.

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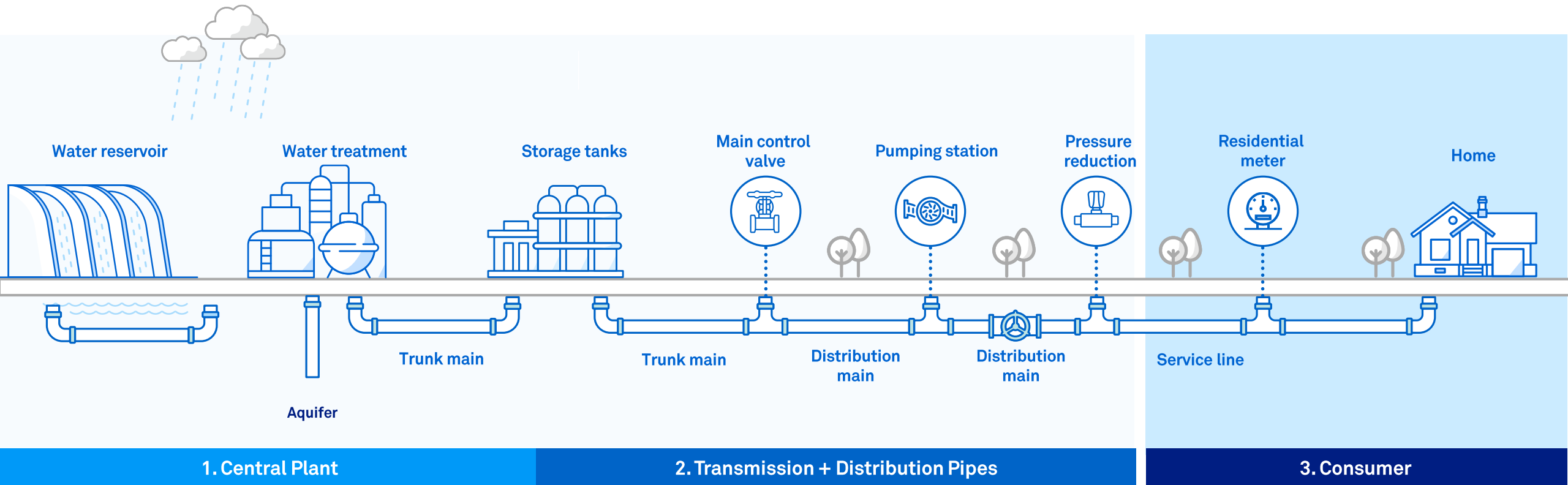
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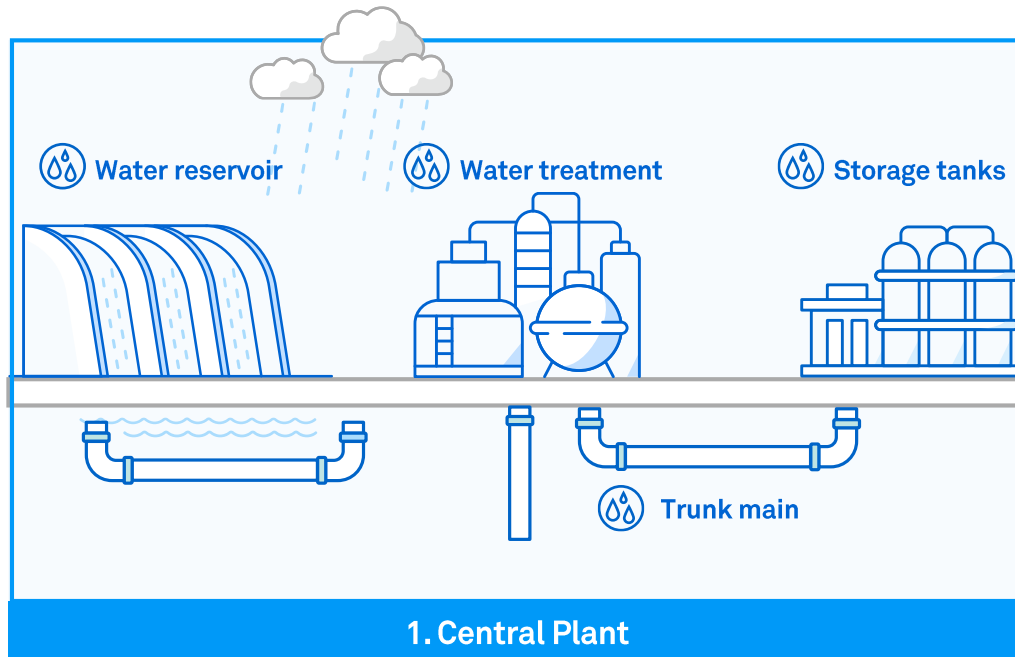
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# The water network

Click on the parts of the water network in the graphic to discover the benefits of IoT.



# Central Plant



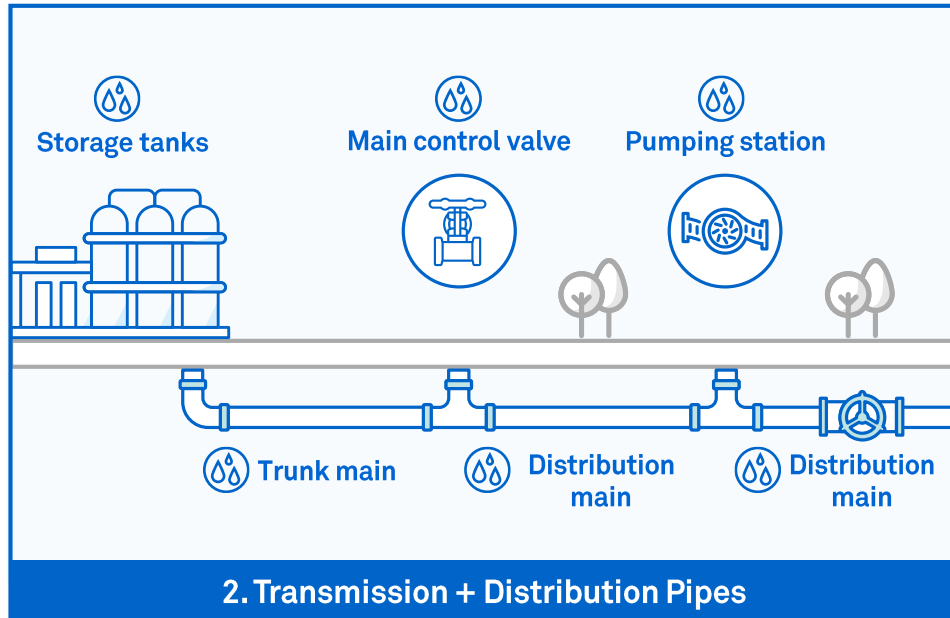
## Managing assets and infrastructure

It can be challenging to monitor and maintain large water networks which include treatment plants and reservoirs. Leaks and equipment failures can be difficult to identify before they become much bigger problems, while upgrade programs typically cost millions of dollars in capital expenditure.

IOT sensors like Telstra Captis devices and sensors can detect leaks and water quality problems before they reach a critical status. Devices can be fitted along the water supply chain from reservoirs, treatment plants to storage tanks. You can capture data such as water quality, water temperature, and water levels necessary for effective water management of this area. Other devices are made to monitor equipment condition, providing the insights you need to plan equipment maintenance and predict and prevent faults.

The result of IoT-enabled infrastructure is a reduction in non-revenue water, longer lifetimes for equipment such as pumps, fewer disruptions to critical water supply, reducing impact to businesses and communities.

# Transmission and distribution pipes

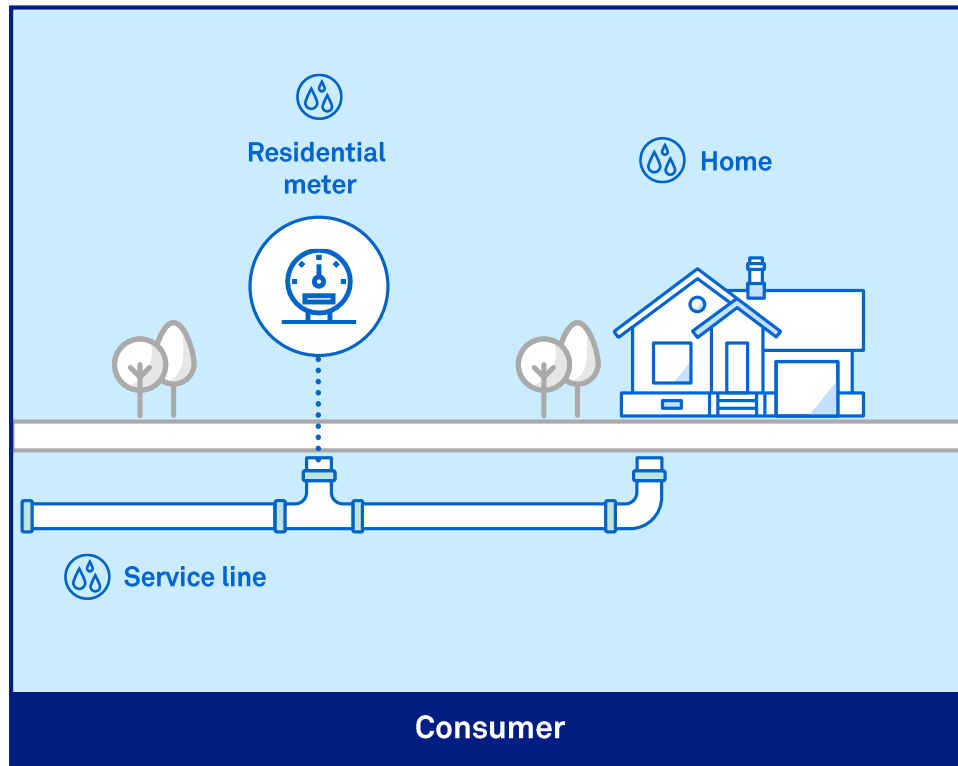


## Keep the water flowing

Often the first time you know about a problem is when your call centre receives a complaint from a consumer. Then finding the cause of a pipe blockage, overflow or a leak in a network of pipes thousands of kilometres long is a little like finding a needle in a haystack.

Telstra Captis devices and sensors can be deployed along your water network to detect leaks and water flow problems. Near real time analysis of information on specialised platforms with advanced algorithms can help you monitor water levels, consumption, blockages, temperature and more across your network, all from your desk. It means you are better placed to predict and prevent problems before they affect consumers, businesses and the environment.

# The consumer



## Delivering a better end user experience

Leaks in or around the home range from being a minor annoyance to catastrophic. Even when leaks are invisible, consumers can be deeply frustrated when they experience bill shock without understanding why the household's water consumption was so high.

Digital water metering solutions can help reduce non-revenue water and improve the experience you offer customers while also providing rich insights about their consumption to inform your future water strategies.

You will be able to see daily or weekly water consumption, aggregated consumption over time, flow and trend analysis, as well as peak and non-peak consumption, with intuitive dashboards. Gaining such an advanced understanding of your customers' usage will help you to plan for a more sustainable future.

# Conclusion



## **Making water management more efficient**

When you are accountable for making every drop count, non-revenue water, incidents in your water network and equipment failure can come at a huge cost to your organisation and the community.

Don't wait for information on faults to trickle through— our IoT water solution can give you insights on your water network to help get you on the front foot when problems arise.

For more information [contact us](#).