waterfall
the intelligent water solution

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Waterfall vs traditional smart
meter comparison

# The next generation smart meter

Smart meter initiatives are helping to meet PR19 and industry targets, but can only go so far. Even top of the range AMI products, have to batch and relay communications a few times a day to save on battery life. They also need a lot of technical attention to ensure they can communicate in down-hole difficult conditions.

A Waterfall unit does not have these limitations. It is installed inside the property, near the stopcock, not hidden in the road. It utilises a combination of supply sensors, an ultrasonic billing-grade meter from Axioma, a shut-off valve from Polypipe, and real-time cloud analytics from Microsoft. Also, freed from the limitations of batteries, it provides near-real time communications.

Importantly – unlike smart meters – Waterfall utilises a Water Event Meter, giving water companies and consumers never-before-seen benefits including pressure, temperature, and billing-grade data. And the customer gets instant feedback on their water use, which makes a huge difference to their behaviour.

Through machine learning the Waterfall unit profiles usage events and looks for anomalies to provide early warning of water escapes. Crucially, building occupants receive a fully itemised bill, making it easier to identify where savings of water and money can be made.

They are also alerted to potential problems and at the first sign of a leak or flood, can remotely shut down the supply with a mobile app–or the system itself can automatically make the decision to do that.

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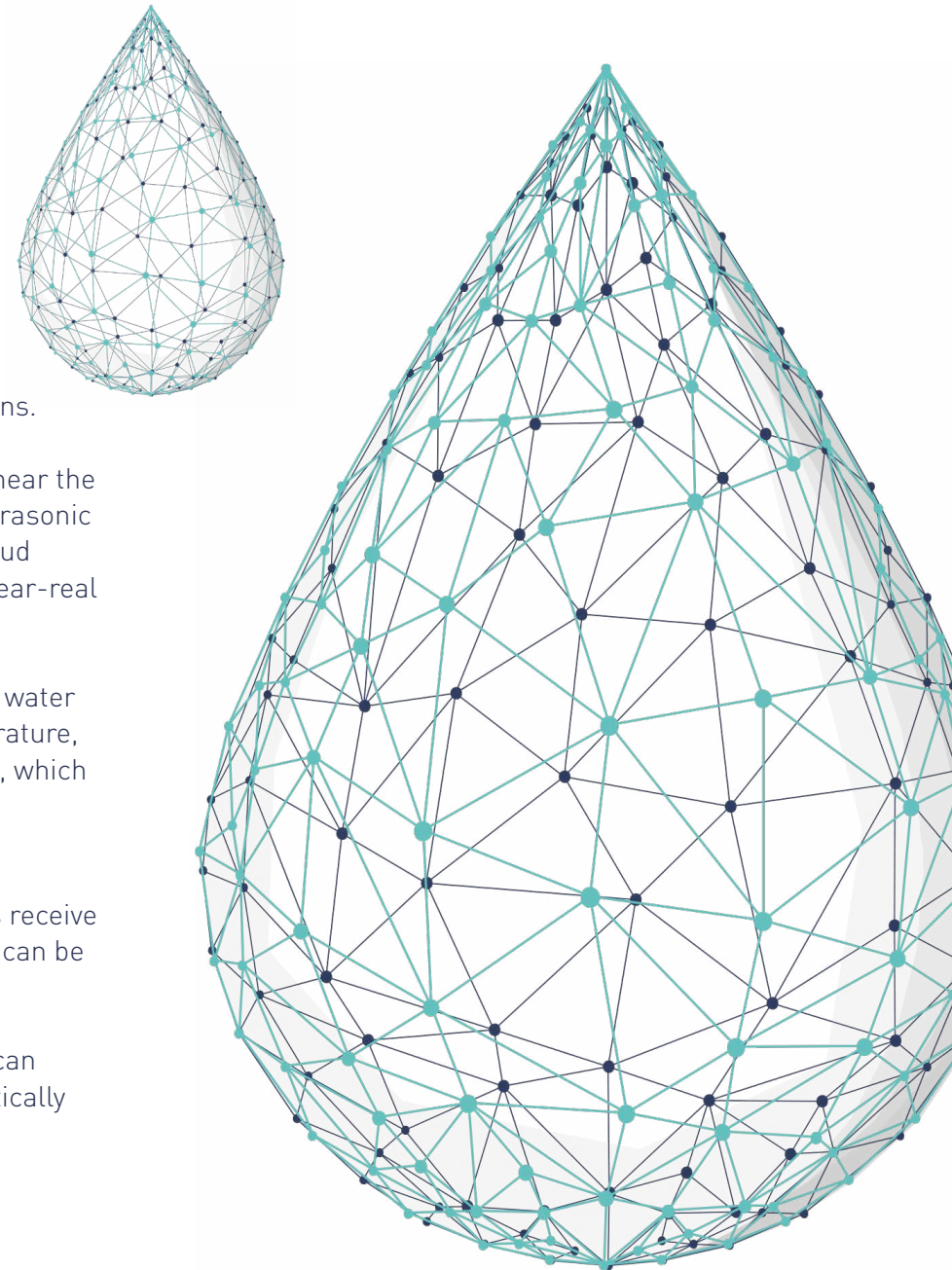
KEY: 🔴 functionality not included   🟢 functionality included   🟢🟢 enhanced functionality

	Smart Meter/ AMI effect on these factors	Waterfall effect on these factors	How does Waterfall achieve this?
Low Pressure complaints resolution	🔴	🟢	Integrated Pressure sensor coupled with near real time reporting enabling alerts and swift action.
Leakage Reduction	🟢	🟢🟢	Ability to monitor leaks down to a few millilitres per minute. Cloud intelligence turns data into insight, highlighting persistent problems that are largely invisible to standard meters. Mobile App that enables property owners to shut off water supply.
Water supply interruption duration	🔴	🟢	Pressure drop triggers alerts well before a customer reports an issue, driving swifter resolution. In turn, RWC can proactively communicate with end customer.
Water supply grid improvement	🔴	🟢	High resolution insight into mains pressure performance across thousands of points in each DMA.
PCC Reduction	🟢	🟢🟢	Engaging out-of-box consumer app included as standard to encourage insight and behavioural change.
Lower bills and affordability	🔴	🟢	Opportunity to provide variable tariffs based on time of day. Delivers detailed per water event insight into consumer usage.
Innovation	🟢	🟢🟢	Sets a new gold standard for functionality including billing grade metering, DMA pressure sensing, stop valve control, smart hub and multi radio support in one highly secured device. Advanced secure cloud based services that incorporate machine learning and open APIs to integrate with existing systems. Flexible BI dashboarding and out of box mobile app end user experience.

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