



MEDIA RELEASE

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Hunter Water IoT trial to detect leaks and protect water infrastructure

A digital innovation trial by Hunter Water and NNNCo will assist in detecting leaks and predicting water main bursts before they occur.

The 12-month trial will test a range of sensors to monitor the water pressure and flow in parts of the Hunter Water network in the Lake Macquarie area. It will use NNNCo's carrier-grade LoRaWAN network and N2N-DL data platform to connect devices and deliver essential data.

The trial deploys 30 pressure sensors to monitor water pressure in real time across 25 km of pipe mains and five Water Flow meters to monitor flow in Hunter Water's pipes. NNNCo's multi-purpose N-sen device will provide connectivity to both sensor types to the network.

The sensors will alert Hunter Water to reductions in water pressure and flow, enabling the utility to respond quickly to fix leaks and prevent pipe bursts.

Hunter Water's Chief Information and Technology Officer, Richard Harris, said the trial was an exciting opportunity for Hunter Water.

"These devices, combined with the use of advanced analytics, will give us greater visibility into how the system is performing. Having that visibility will allow us to more quickly find and respond to breaks if they occur, particularly those in remote locations."

"Leaks can sometimes be a precursor to a water main break, so the sooner we find leaks, the sooner we can fix them and minimise any potential impact on our customers and community. "

NNNCo Founder and CEO Rob Zagarella said the trial was particularly relevant to infrastructure-rich organisations like utilities.

"This is about implementing a system to better monitor and manage existing assets in order to prevent issues and prolong the life of the asset."

"The potential is to be smarter with the management of existing assets and reduce spend on new or replacement infrastructure," Mr Zagarella added. "That has positive impacts for the utility as well as the broader community by reducing cost and environmental impacts."

The trial uses NNNCo's LoRaWAN network in the Hunter Region, providing secure connectivity from the devices through to analytics.



Mr Zagarella said, “This is a standards-based carrier-grade system, with built-in end-to-end security, that is ideally suited to IoT projects involving critical infrastructure. We see enormous potential for it to be applied to a wide range of use cases across asset-rich organisations.”

“I’m really pleased to see this trial get underway, which has been made possible through the collaboration of various sections of our business,” Mr Harris added.

“Intelligent networks will help transform the way we do business, driving better outcomes for our customers and community. If successful, we hope to expand it to other parts of our network and apply the learnings to future projects.”

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About Hunter Water

Hunter Water provides drinking water, wastewater, recycled water and some stormwater services to a population approaching 600,000 people in homes and businesses across the Lower Hunter. It manages an asset base of more than \$2.5 billion worth of water, wastewater and recycled water infrastructure, ensuring a sustainable water future for the Lower Hunter.

About NNNCo

NNNCo is a leading Australian IoT Enterprise provider and LoRaWAN network operator. The company provides the network layer and technology-agnostic data platform that makes IoT accessible across any industry to enable enterprise-grade solutions for business and government. NNNCo’s Enterprise IoT service is deployed using LoRaWAN technology, the globally-adopted open standard for secure, carrier-grade IoT connectivity. For more information, visit www.nnnco.com.au