

# THINK FIBRE FOR YOUR IoT SOLUTION

## Future-proof your IoT application or digital transformation project with reliable connectivity.

We know that towns and cities today need continued future thinking and planning to ensure they work safely and reliably 24/7. It's a job that increasingly requires automation and real-time management to keep everything running smoothly – especially when considering the multiple demands for:

- **Public security and safety**
- **Road and traffic management**
- **Waste management**
- **Environmental needs**
- **Public transport mobility.**

The Chorus fibre network has transformed how we live and work through digital technology. Now, thanks to Smart Locations, Chorus fibre is increasingly being used to shape the future of our smart cities and towns.

A Smart Location enables a place or structure that typically does not have a fixed address, like a bus stop or streetlight, to connect to the fibre network (now covering 87% of the population and 412 New Zealand towns and cities).

A central fibre point provides reliable, flexible, and scalable high bandwidth connectivity to critical real-time, data-hungry IoT applications and devices like CCTV cameras or traffic sensor monitoring. Smart Locations are designed to help facilitate safer, more streamlined and efficiently run towns and cities – now and into the future.

Learn more:

[chorus.co.nz/smartlocations](https://chorus.co.nz/smartlocations)

**SMART LOCATIONS  
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# Here's how the Public Sector is using Chorus Smart Locations

## Outdoor CCTV security and safety



Safer communities need secure and reliable CCTV cameras designed to help prevent and detect incidents. Smart Locations enables digital monitoring with real-time data capture through reliable and scalable bandwidth, meaning nothing goes unseen and helps with prevention.

## Improved traffic management



With increasing focus on traffic monitoring and congestion management due to urban intensification, improving traffic flow through automation is critical as cities' mobility needs grow. [Discover here](#) how Chorus fibre and Smart Locations helped Palmerston North City Council take traffic flow to the next level.

## Outdoor public Wi-Fi



Smart Locations is helping councils provide improved public spaces and campuses with high-speed community Wi-Fi and other Smart Park sensor opportunities. [Discover here](#) how Far North District Council has launched free public Wi-Fi in the Bay of Islands, which has brought many benefits to the tourism industry and local communities.

## Environmental – outdoor electric charging stations, waste and weather management monitoring



With more Kiwis looking for sustainable fuel alternatives, Smart Locations has helped enable outdoor electric car charging stations with improved power monitoring and public Wi-Fi.

Smart Locations can also support the connectivity needs for critical infrastructure with pollution sensors, weather sensors, waterway and wastewater monitoring.

## Improved public transport mobility



Smart Locations can help enable an improved public transport experience at bus stops with real-time CCTV for vandalism prevention monitoring and real-time bus timetable visual information screens.

See more:

[chorus.co.nz/smartlocations](https://chorus.co.nz/smartlocations)

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# Why Chorus fibre is the smartest choice

Turning your smart city IoT project into a Smart Location connects it to New Zealand's world-class fibre network. We work hard to ensure our network is congestion free and has plenty of capacity, providing you with connectivity that future-proofs your decisions. This also gives your project scale to accommodate the shifting environmental, social and political landscape.



## Fibre is available in nearly all of NZ

With 87% of the population and 412 New Zealand towns and cities now being able to access fibre, there is a good chance a fibre access point is nearby to enable your big bandwidth IoT project.



## A more sustainable option

For speeds over 50 Mbps, fibre has a lower carbon footprint than any competing technology by as much as 96%. Every IoT connection we have on fibre is a win for the environment.\*



## Reliability and resilience

With fibre, you can expect consistent performance regardless of demand or peak use. As a lines technology with cables in the ground, fibre also offers longevity and weather protection benefits.



## Fast upstream speeds

Fibre offers the fastest broadband plans available but there's a lot that contributes to actual speeds experienced. Learn more at

[chorus.co.nz/broadband-performance](https://chorus.co.nz/broadband-performance)



## Scalability and flexibility

A single fixed fibre Smart Location can connect to multiple devices providing you with the flexibility to add other IoT applications in the future. Fibre plans come in a range of bandwidth options giving you plenty of capacity to meet your total data needs.

There is flexibility with two Optical Network Sensor (ONT) options – a standard ONT and an SFP (small factor pluggable ONT). An SFP allows you to connect fibre in small spaces where a standard ONT may not work or has limited power options.



## Long term operational efficiencies

With fibre, there are long term cost efficiencies as you can amortise the upfront connection cost over multiple years and limit the need for investing in replacement hardware.

\*Assessing the emissions footprint of the fibre networks relative to other fixed broadband options in New Zealand Source: [Sapere, 2021](#)

## Contact us:

[chorus.co.nz/smartlocations](https://chorus.co.nz/smartlocations)

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