



CIP connectivity programmes update

23 June 2019

Broadband - UFB

Mobile - 4G LTE



SPEEDTEST

DOWNLOAD Mbps: **939**

UPLOAD Mbps: **471**

Ping 1 ms | Jitter 0.082 ms | Loss - %

GO

Vocusgroup NZ
Auckland
[CHANGE SERVER](#)

LTE 4/02/19 7:32 AM **78.7** **11.1**

DOWNLOAD **78.7** Mbps Data used 127.3MB

UPLOAD **11.1** Mbps Data used 18.7MB

Ping **31** ms Jitter **8.8** ms Packet Loss **0** %

National Broadband Map: RBI2 wireless coverage


 National Broadband Map

Te Wharau 5883

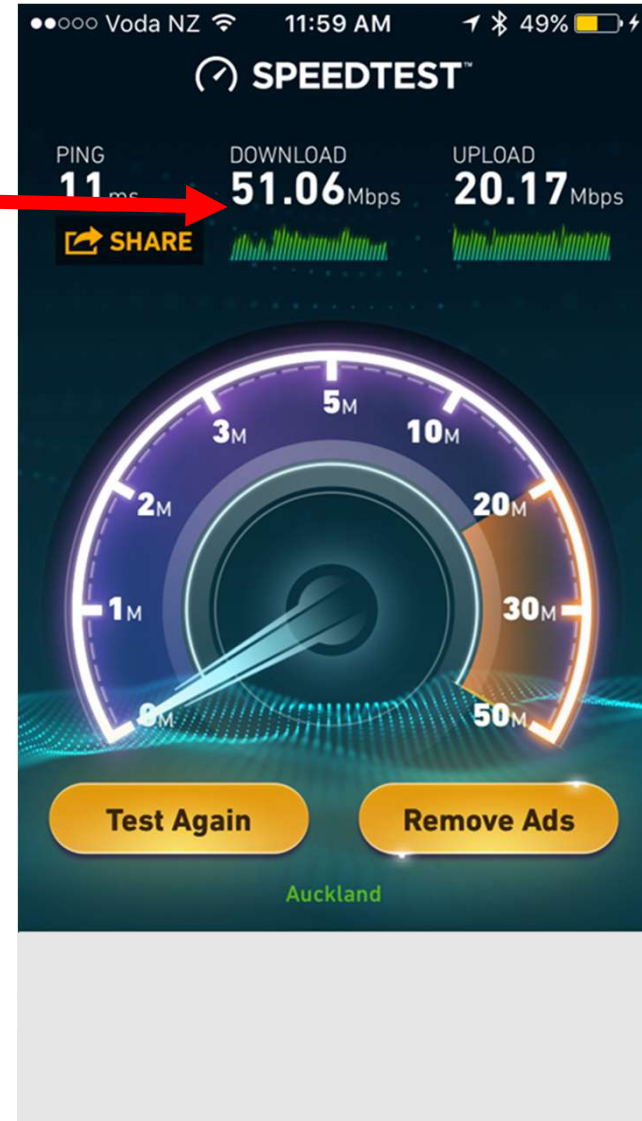
Availability Report

2977 Te Wharau Road, Te Wharau 5883

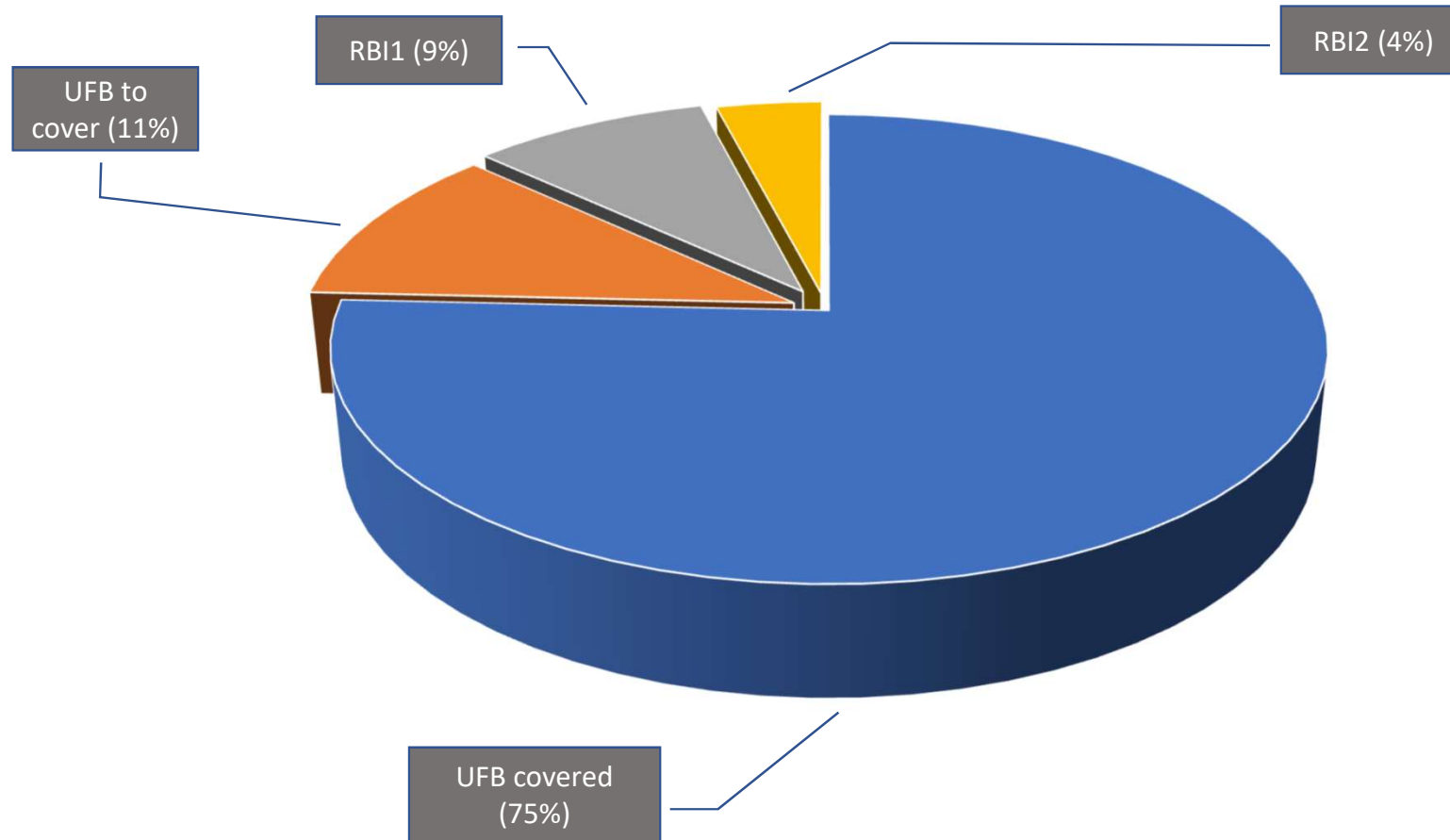
- Fibre is Not Available
- Cable is Not Available
- VDSL is Not Available
- Wireless is Not Available
- ADSL is Not Available



What can rural users expect?

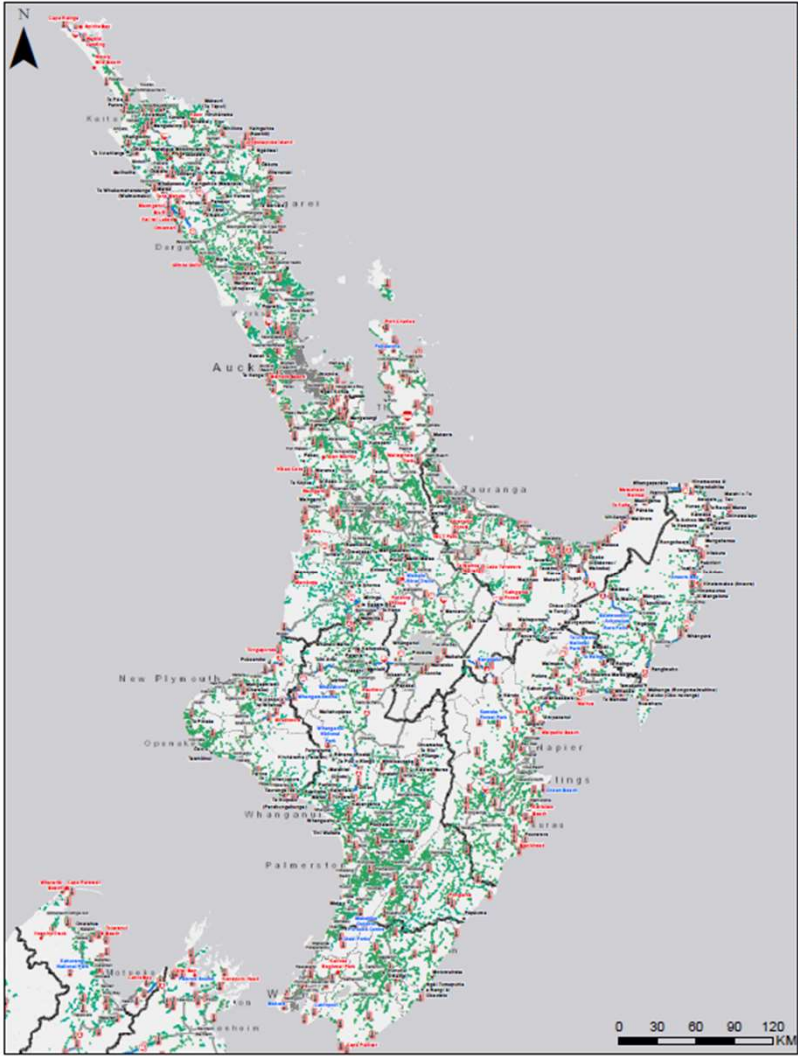


Broadband programmes nationally



National population coverage by broadband programme

RBI2/MBSF national coverage



- Tourism New Coverage
- RBi2 Households and Businesses
- Marae New Coverage
- State Highway New Coverage
- State Highway Remaining
- RCG mobile towers
- UFB Coverage

North Island
Rural Broadband Initiative Phase Two/
Mobile Black Spot Fund Coverage



- Tourism New Coverage
- RBi2 Households and Businesses
- Marae New Coverage
- State Highway New Coverage
- State Highway Remaining
- RCG mobile towers
- UFB Coverage

South Island
Rural Broadband Initiative Phase Two/
Mobile Black Spot Fund Coverage

RBI2/MBSF programme: ~\$300 million



- ~84,000 rural households and businesses
- ~1,405 km State Highways
- ~163 Tourism sites
- ~ 570 cell towers
- Pop % ~3.5%
- Total pop with broadband 99.8%



Local > Reliable > Fast > Broadband



0800 000 945

ultimatebroadband.co.nz

STRATANET



Evolution Networks



RBI2/MBSF planned schedule for roll-out



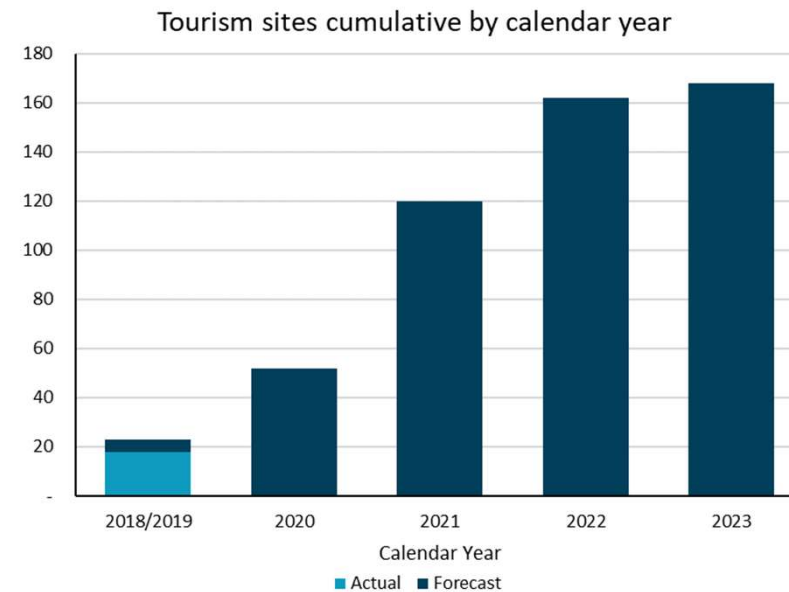
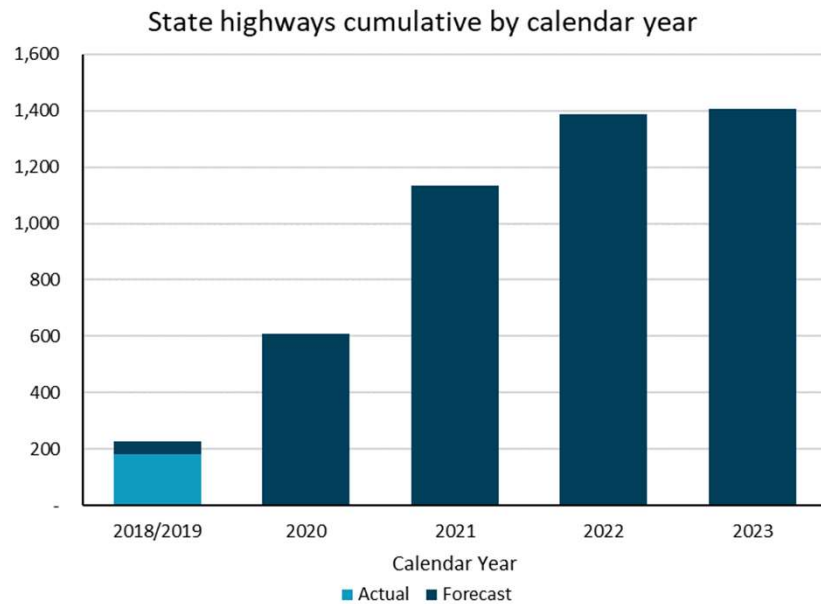
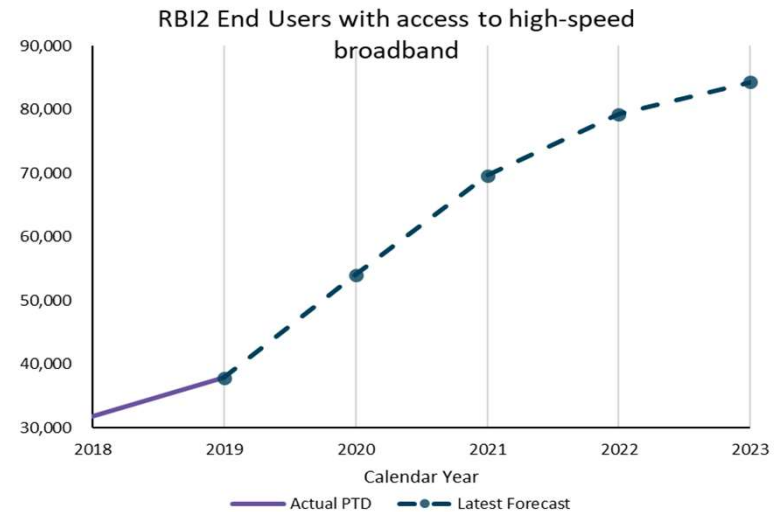
Targets for RBI2/MBSF rollout:

RBI2

- Substantially complete by 2021

MBSF

- Substantially complete by 2022



RBI2/MBSF programme progress – March 2019



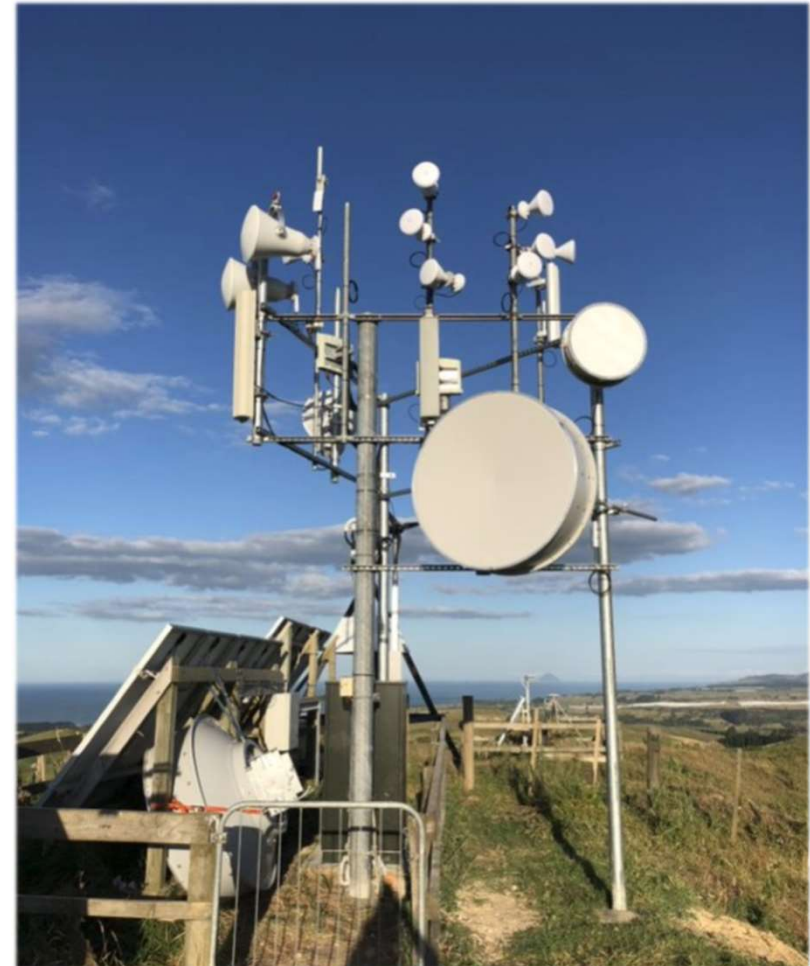
% Complete
**~33,804 rural
broadband end
users** **40%**



**~166 kilometres
mobile coverage** **12%**

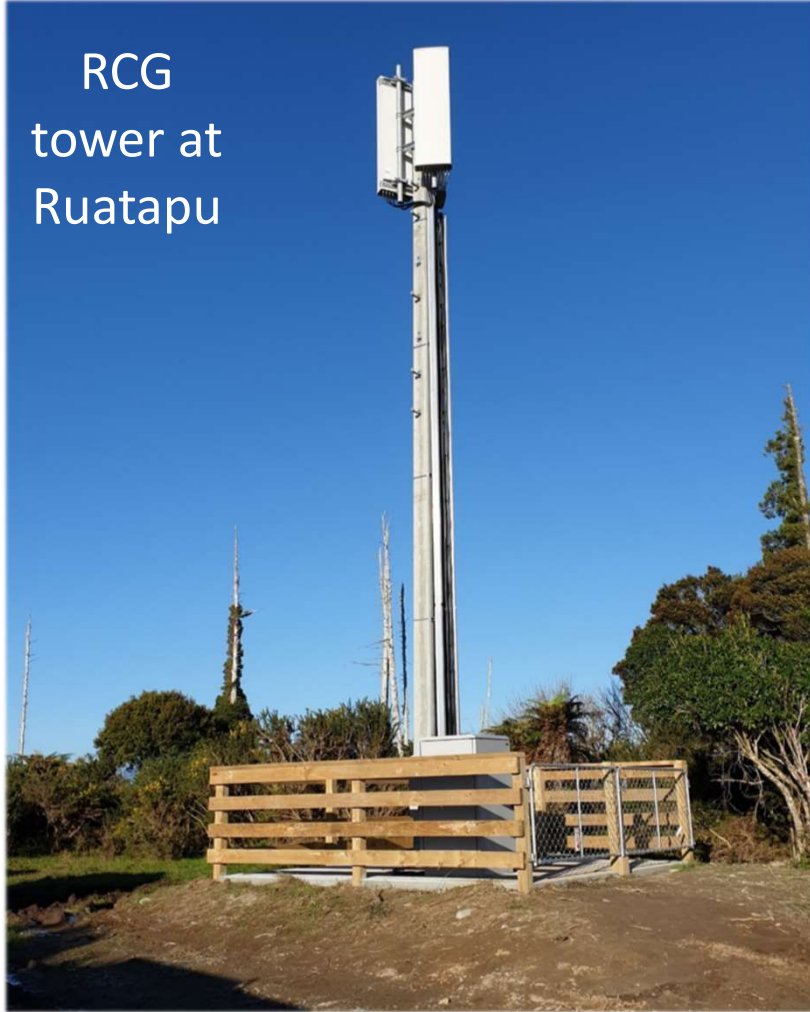


**~19 tourism areas
mobile coverage** **12%**



Lightwire tower - Pukehina

RCG
tower at
Ruatapu



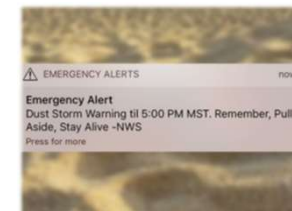
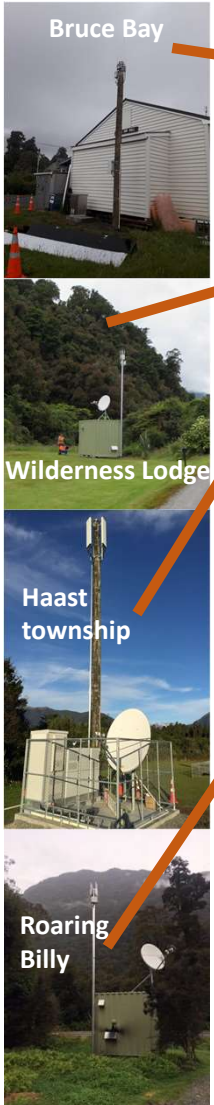
All 3 mobile operators share:

- Towers
 - Radios
 - Antennae
 - Spectrum
- } • Lowest cost
• All 3 mobile operators' customers can use

RCG tower
being erected
at Te Arai



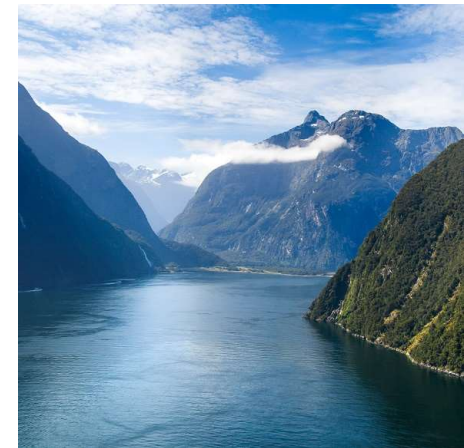
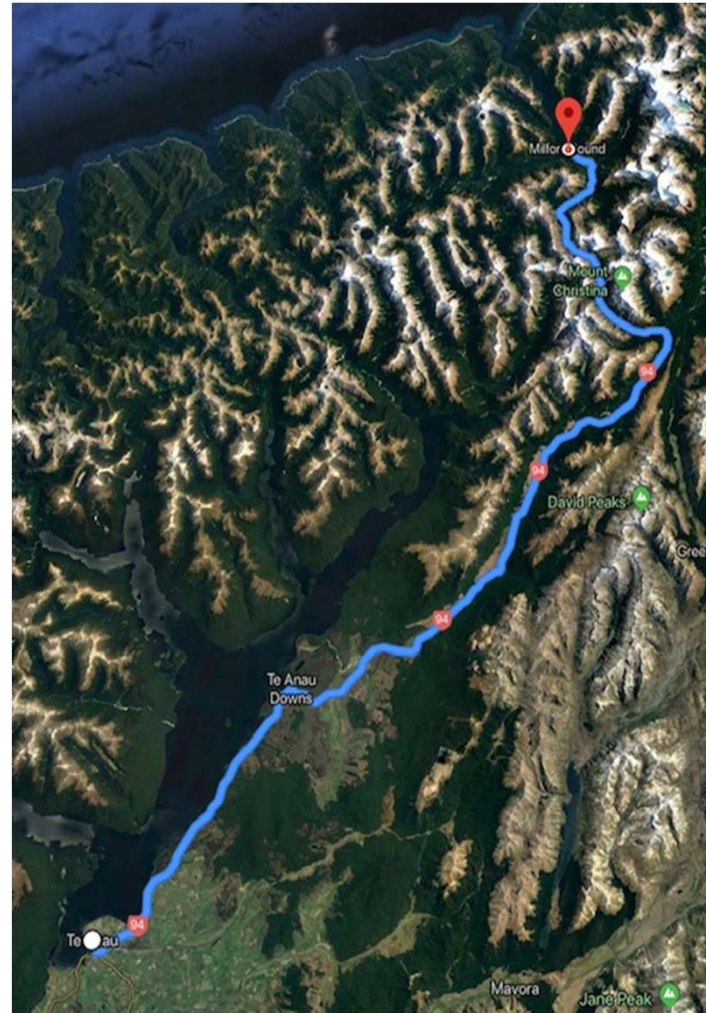
MBSF/PGF Haast Highway – significant connectivity improvements



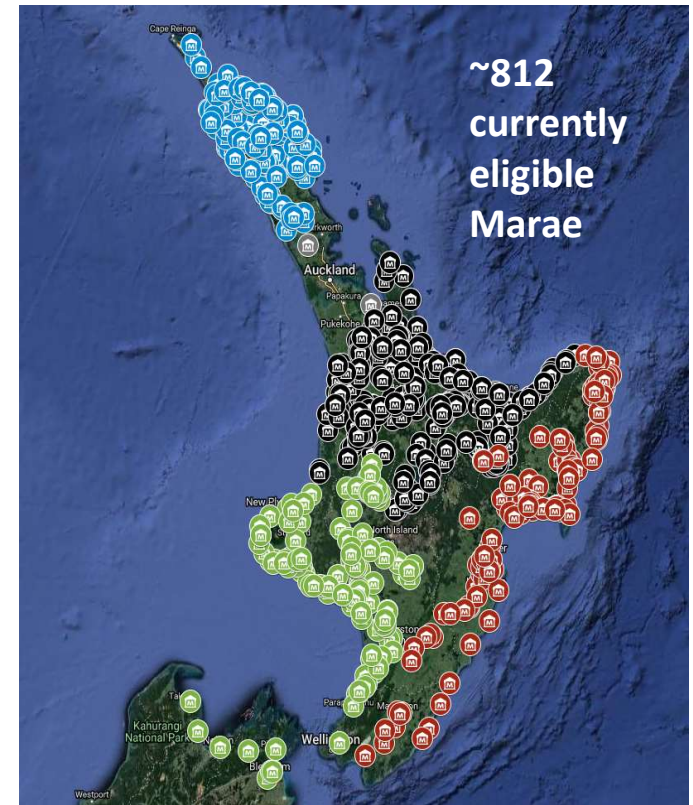


MBSF/PGF Tourism

Milford Sound - 120km fibre; 8 mobile towers



PGF Marae Digital Connectivity programme



- 112 applications
- ~57 in progress
- RFP in July

- Infrastructure coverage
- Assisting connectivity package
- Assisting equipment package

Remaining rural gap – what's left to be covered ?

- ~4,000 rural households and businesses
- ~0.2% of pop
- **Largest:** Northland, Bay of Plenty, Waikato:
- **Mid-size:** Auckland, Taranaki, “top of the South”, Canterbury, Otago & Southland
- **Done:** Gisborne, Manawatu, West Coast, Wellington



Rural health benefits from broadband



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Faster internet speed benefits rural health centres

The first stage of the government's Rural Broadband Initiative (RBI) has brought faster internet connection and resulting benefits to a number of rural hospitals and family health centres around New Zealand.

Doctor visits go online with Doctor2Go

Tom Pullar-Strecker · 12:37, Jan 16 2015

Doctor visits will be the latest service to go online with the launch next month of Doctor2Go, a premium-priced "medical concierge" service that lets patients consult GPs by video through their web browser.

Doctor2Go is targeting corporate clients as well as individuals, arguing companies that enroll executives can expect improved productivity as a result of staff getting medical advice early and spending less time travelling to and sitting around in waiting rooms.

The service is a joint venture between Waitemata-registered GP clinic Third Age Health and private equity firm Hatch Equity and will initially only be available to Auckland residents.

But Third Age Health's American-born chief executive and Hatch Equity investor Michael Haskell later hopes to license its technology to the Health Ministry or district health boards (DHBs) who he believes could subsidise the service for low income or rural patients. Discussions are also taking place with a possible customer in Britain, he says.

Benefits

- Remote monitoring/diagnostics
- Health & safety (e.g. on farm)
- Improved contact for District Nurses/ambulance

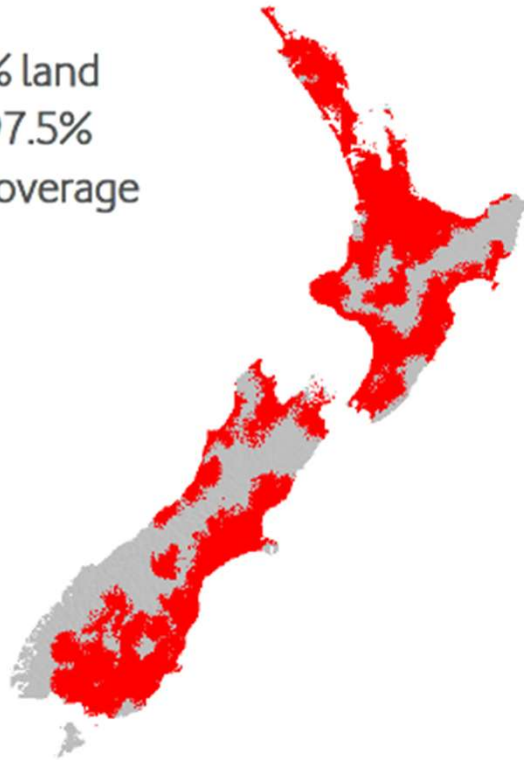




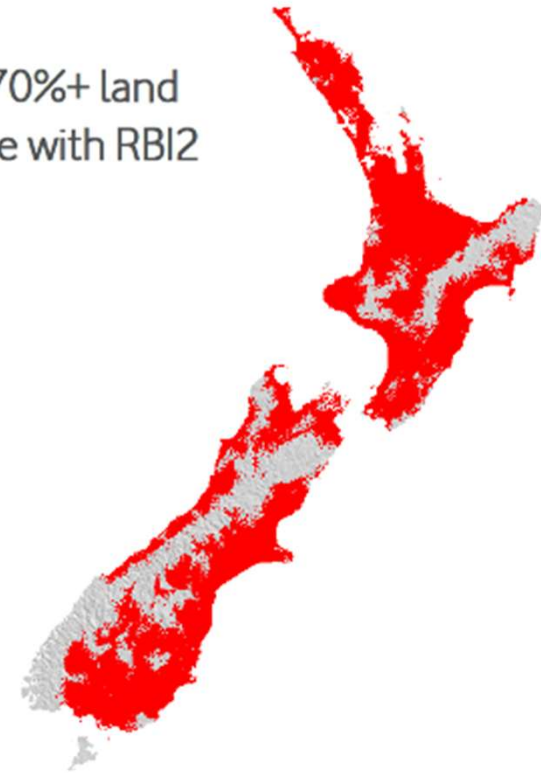
IoT
Solutions

Expansion of IOT coverage due to RBI2/MBSF

NB-IoT 48.2% land
coverage & 97.5%
population coverage



NB-IoT 70%+ land
coverage with RBI2



Note: DOC land/national parks: 30% of NZ's land mass

Internet of things

HARVEST.com

REMOTE MONITORING 0800 HARVEST



UFB rural towns



Picton



Ongaonga



Summerhill



Reefton



Opunake



Waihi

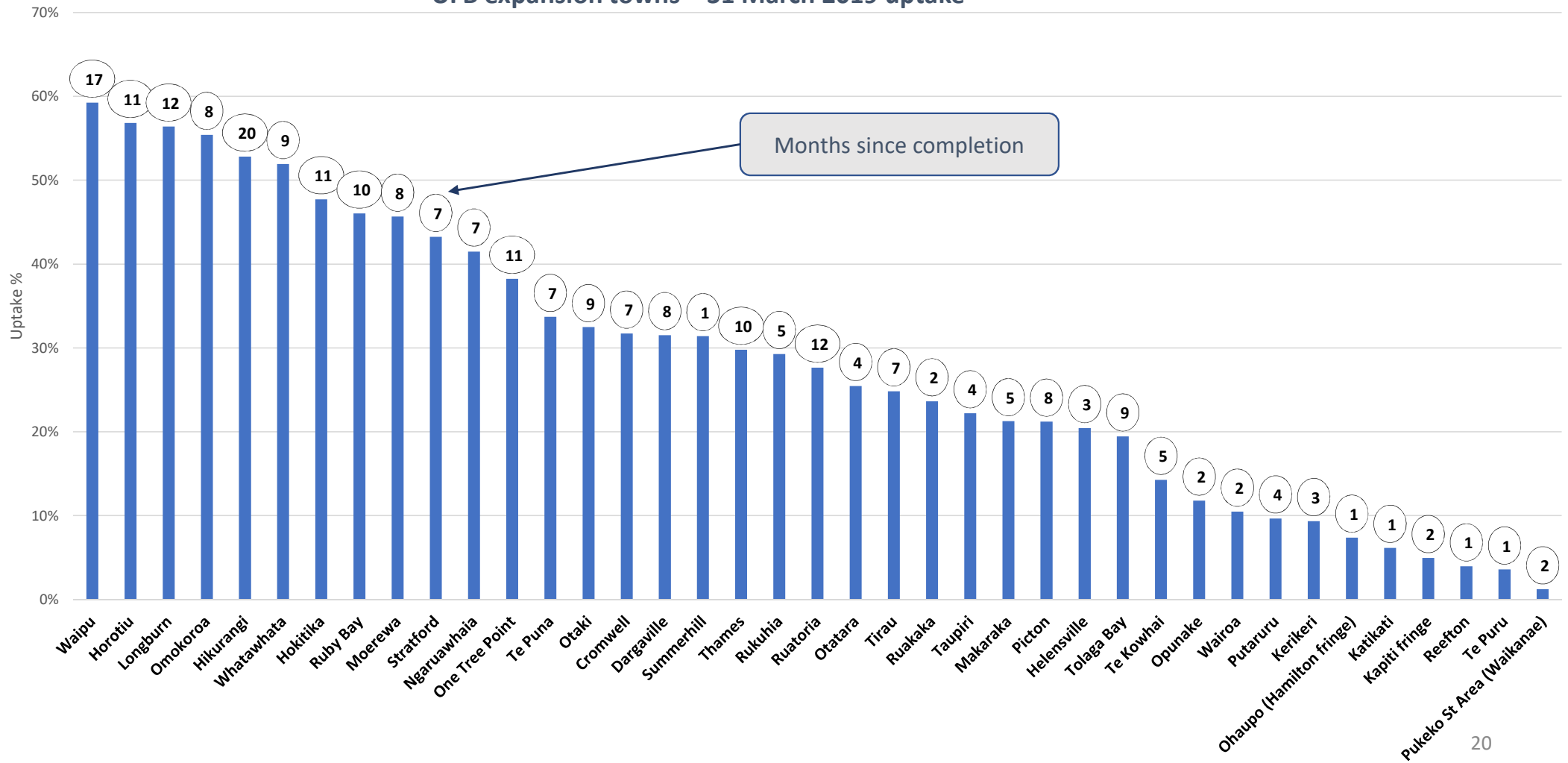
There are 45 UFB expansion towns complete, with 65,400 residential and business end users able to connect

Expansion towns complete include:

- Hikurangi
- Waipu
- Longburn
- Ruatoria
- One Tree Point
- Thames
- Ruby Bay
- Otaki
- Tolaga Bay
- Picton
- Ngaruawaia
- Moerewa
- Tirau
- Cromwell
- Stratford
- Summerhill
- Makaraka
- Runanga
- Putaruru
- Taupiri
- Helensville
- Kerikeri
- Ruakaka
- Opunake
- Wairoa
- KatiKati
- Reefton
- Te Puru
- Eltham
- Waihi
- Motueka
- Mangawhai
- Hokio Beach
- Manapouri
- Waimauku
- Baylys Beach
- Pareora
- Takapau
- Waikawa Beach
- Ongaonga
- Maungakaramea
- Omokoroa,
- Te Puna
- Matapihi
- Horotiu
- Ohaupo
- Rukuhia
- Whatwhata
- Te Kowhai
- Tamahere-Matangi
- Hautapu
- Parkdale

Uptake strong in UFB expansion towns

UFB expansion towns – 31 March 2019 uptake



latest site photos





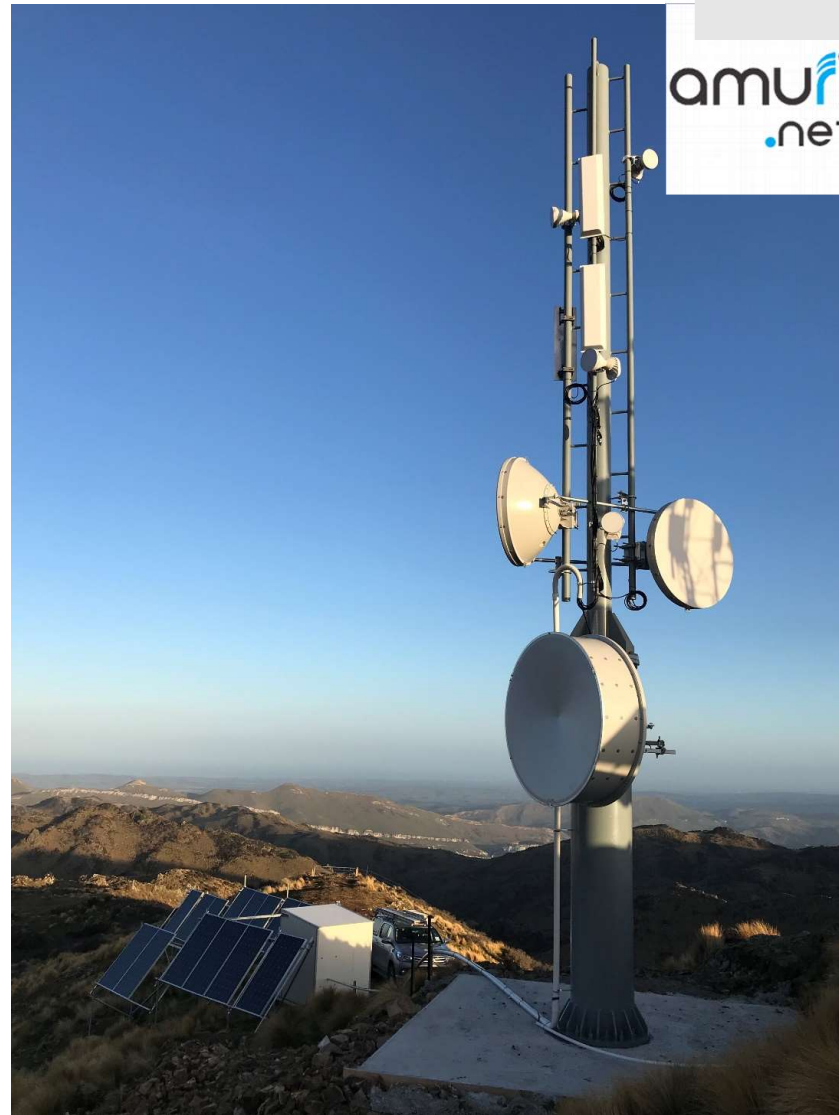
WISP RBI2 latest site photos



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WISP RBI2 latest site photos



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Crown
Infrastructure
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