



What we will cover

- **Updates**
 - Rural broadband Update
 - Mobile Black Spots Updates
 - Marae connectivity Update
 - Fibre links
 - Ultra-Fast Broadband (UFB) programme and rural fibre
- **Topics of interest**

Amuri Net Mount Grey tower



RCG 400th tower



Rural Broadband Initiative



78,708
RURAL HOMES &
BUSINESSES WITH
ACCESS TO
BROADBAND
93% COMPLETE



43%
UPTAKE ON
RCG TOWERS



+ 6,034
since last year



Local > Reliable > Fast > Broadband

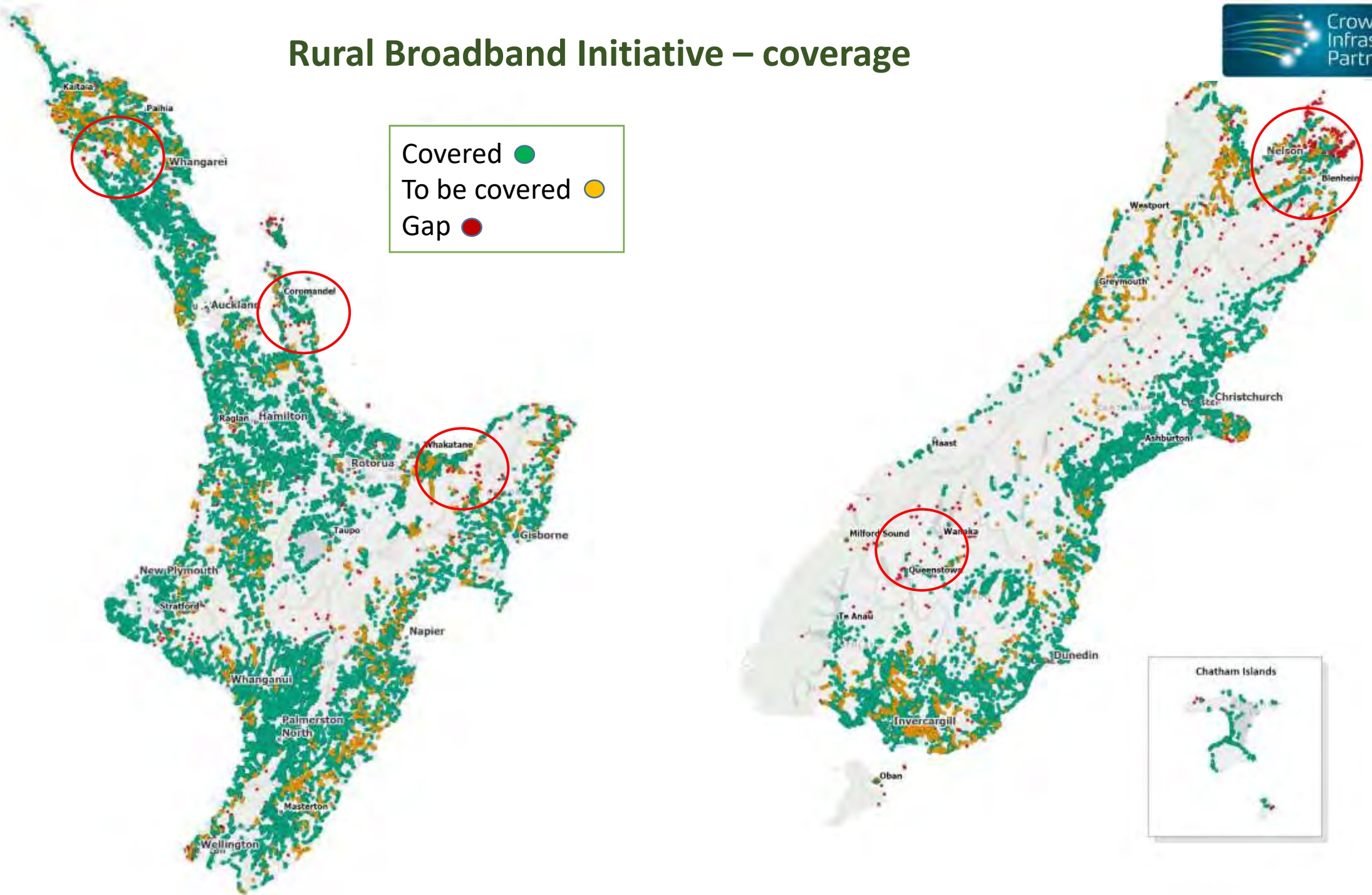


Some photos !



Rural Broadband Initiative – coverage

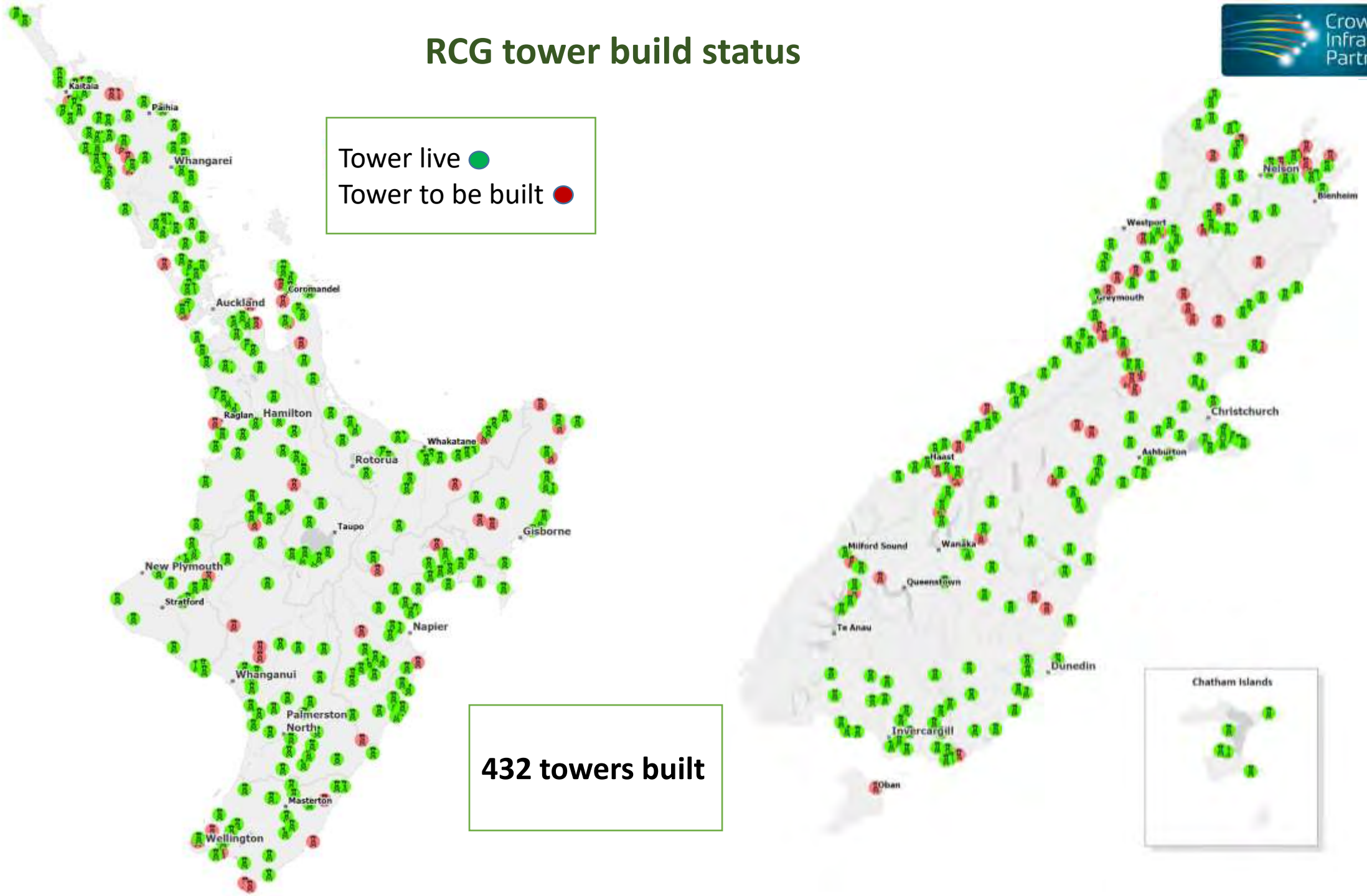
Covered ●
To be covered ●
Gap ●



RCG tower build status

Tower live ●
Tower to be built ●

432 towers built



Rural Capacity Upgrades



24,793

HOUSEHOLDS WITH IMPROVED BROADBAND CAPACITY

35% COMPLETE (CONSTRAINED CAPACITY)



7,700

HOUSEHOLDS WITH IMPROVED BROADBAND CAPACITY

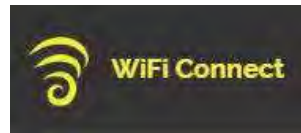
56% COMPLETE (STOP SELL)



69,869

Target

HOUSEHOLDS WITH IMPROVED BROADBAND



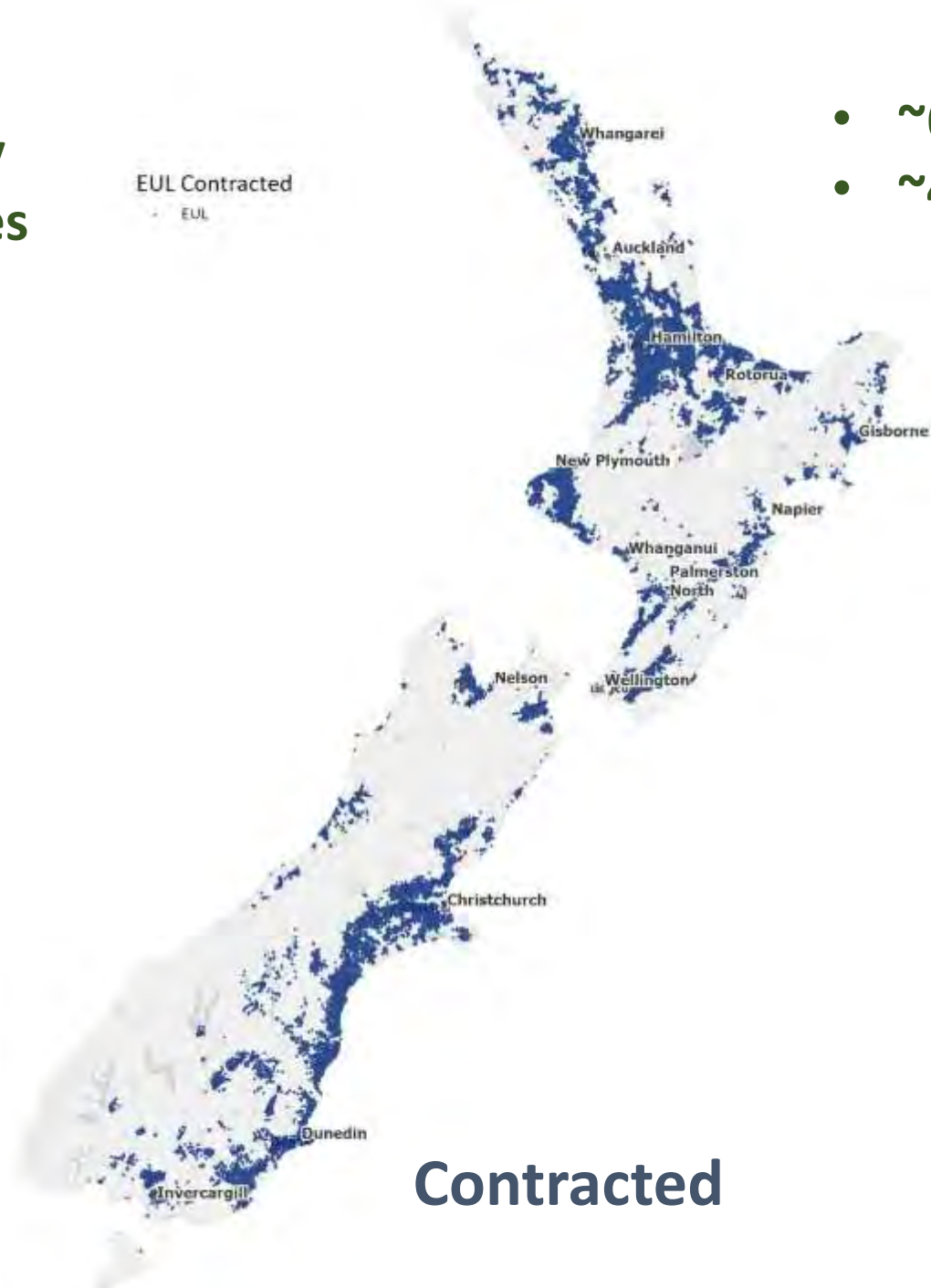
0800 000 945

ultimatebroadband.co.nz



Rural Capacity Upgrades

- ~69,869 contracted
- ~46,120 not contracted



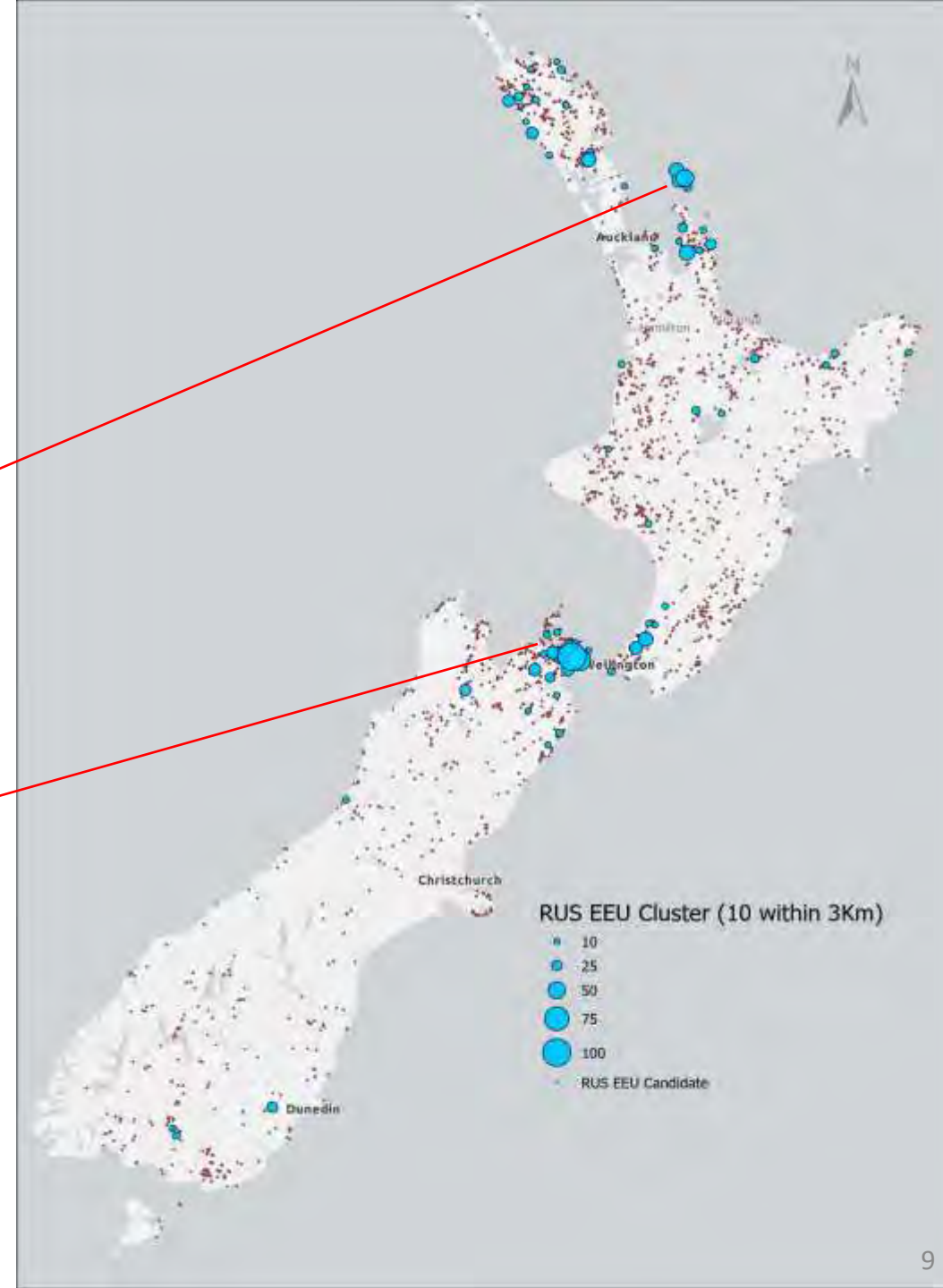
Contracted



Remaining

Remote Users Scheme

- Targeting up to ~3,800 remote users
- Infrastructure RFP closed 12 May
- Phase 2 grant up to \$2,000 per user
 - Installation and equipment



Mobile Black Spots programme



117

NEW TOURISM
SITES COVERED
70% COMPLETE

31

Since last year



1,228 km

STATE HIGHWAY
KILOMETRES
COVERED
87% COMPLETE

244km

Since last year



Mobile Blackspots Programme – State Highways



Mobile Blackspots Programme – tourism sites

Covered ▲
To be covered ▲
Remaining ▲



5G spectrum funded rural mobile

- State Highways Black spots left > 10 km
- Regional Roothing Black Spot > 10 km
- Tourism location “Great Walk” or “Great Ride”
- State Highway black spots left > 5km < 10Km
- Settlements without mobile voice coverage



Marae digital connectivity



670

MARAE APPLICATIONS RECEIVED



616

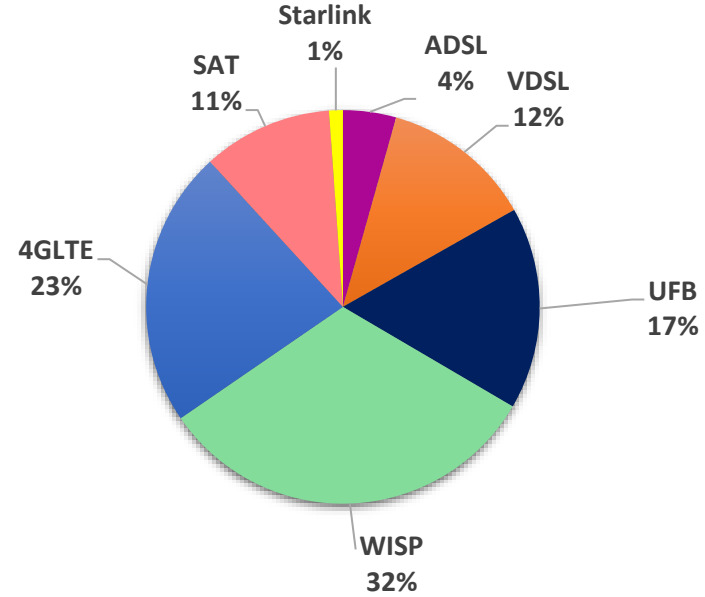
MARAE BROADBAND CONNECTED



609

MARAE HARDWARE INSTALLED

Total Marae Connections by type

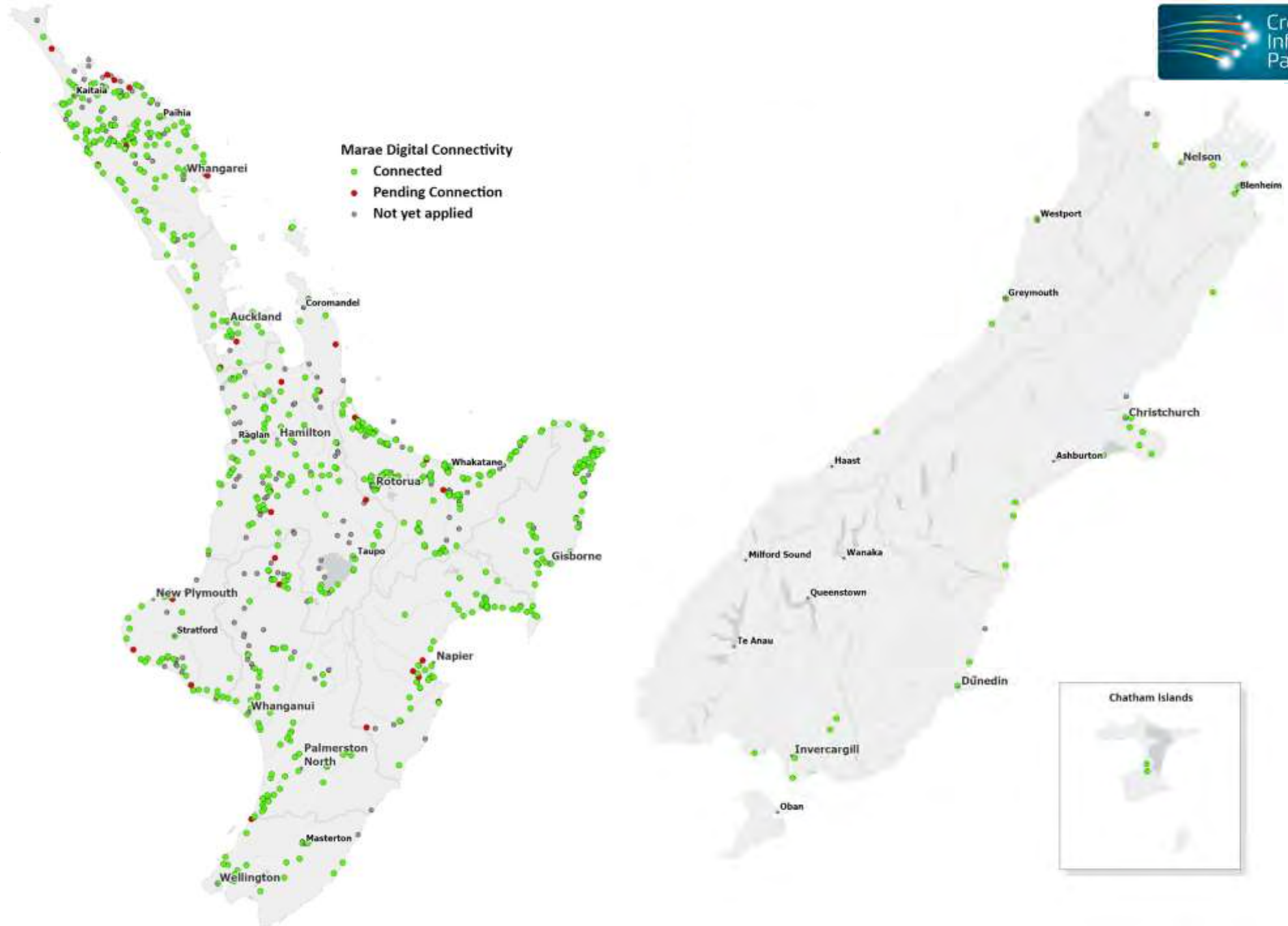


Ngatokowaru Marae Horowhenua



Matahiwi (Ohotu) Marae on the banks of the Whanganui River (connected to Starlink by Gravity in September 2022)

Marae digital connectivity



Fibre links

394 KM built



Rock saws cutting a road trench and installing the Chorus green duct ready for fibre.

Trench ready for backfill and re-instatement of the road surface.



Completed RCG tower, The Neck, on SH6 near Wanaka.



Ultra-Fast Broadband – complete !

OVERALL PROGRESS ULTRA FAST BROADBAND (UFB)



412

UFB TOWNS
AND CITIES
complete



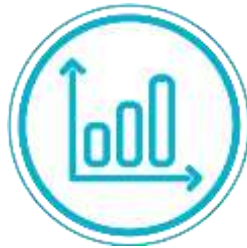
1,834,051

HOMES AND
BUSINESSES
with UFB available
(100%)



1,324,071

HOMES AND
BUSINESSES
connected to UFB



UPTAKE

72.2%

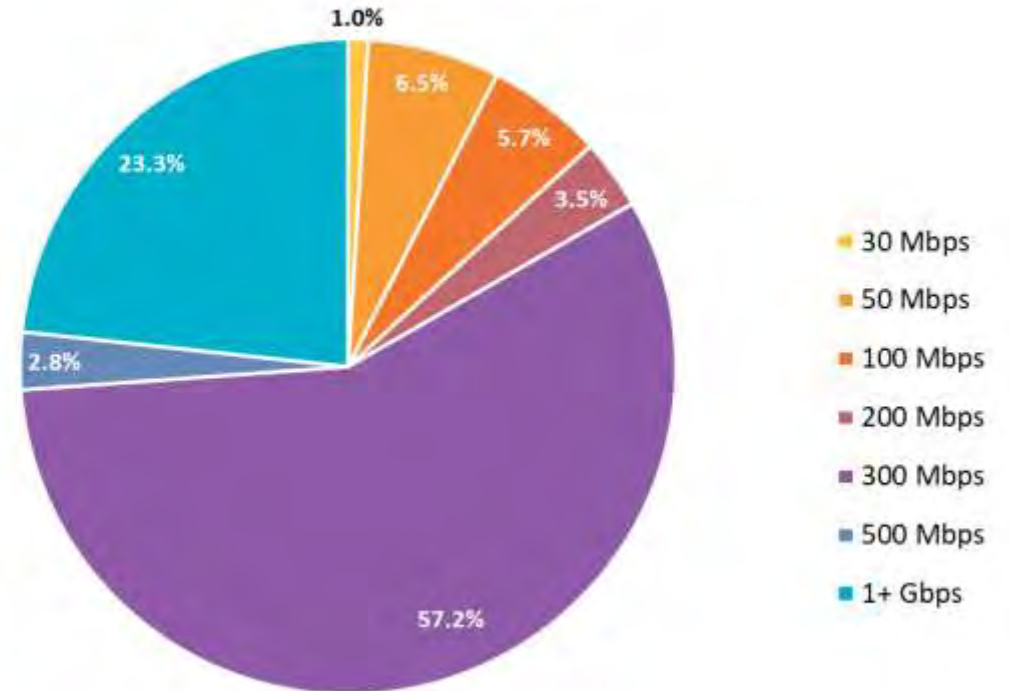


87%

OF NEW ZEALANDERS
CAN NOW ACCESS UFB

Invested \$1.725bn
Returned to date \$390m

UFB PRODUCT MIX



445 Mbps
Average UFB Speed

Lots of New Zealand rural towns got UFB: 309 towns !

- **< 100 homes : 13 towns** e.g. Whangapoua, Moana, Haast, Mokau, Brightwater
- **> 100 < 500 homes: 161 towns** e.g. Maheno, Kuaotunu, Te Teko, Hihi, Kurow, Doyleston
- **> 500 < 1,000 homes: 63 towns** e.g. Patumahoe, Mamaku, Te Awanga, Raetihi, Te Awanga
- **> 100 < 3,000 homes: 72 towns** e.g. Patea,, Hikurangi, Kihikihi, Okura



Mokau



Te Teko



Raetihi



Patumahoe



Hihi



Kuaotunu



Doyleston



Te Awanga

Rural fibre

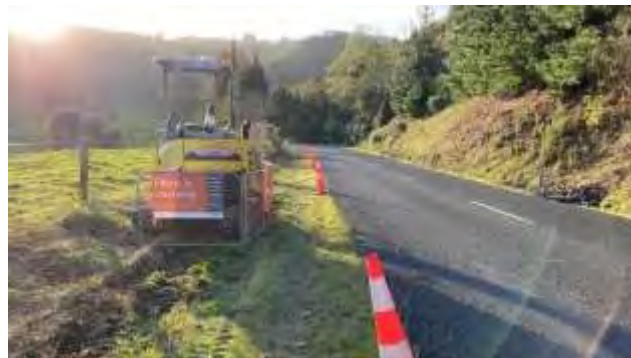
- ~5,170 premises contracted
- ~2,005 passed already



Amuri fibre blow



Enable Rangiora North



Tuatahi deployment



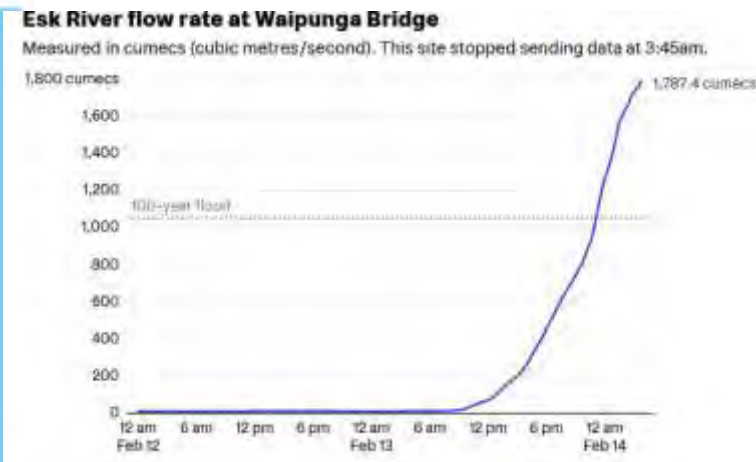
Chorus rural cabinet



GisborneNet Makarori

Cyclone Gabrielle – industry mobilisation

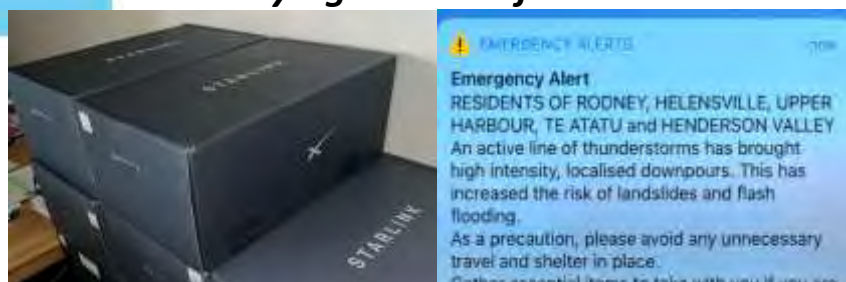
RCG Operational Status 15 February 2023 - 1300



“7 of the 10 sites monitoring river flows and rainfall in the Esk Valley went offline from 1am Tuesday, after a repeater station relaying the data failed”



upgrades to stopbanks near Taradale prevented "catastrophic" flooding in Napier – funding from IRG.

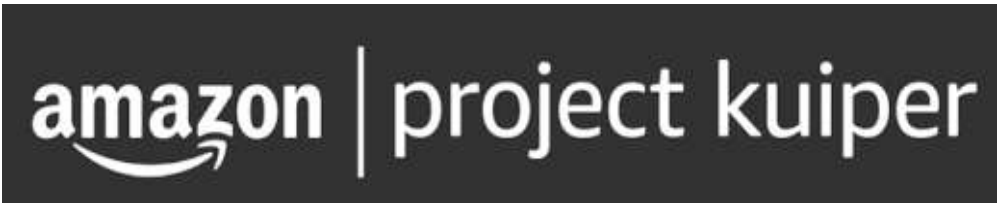
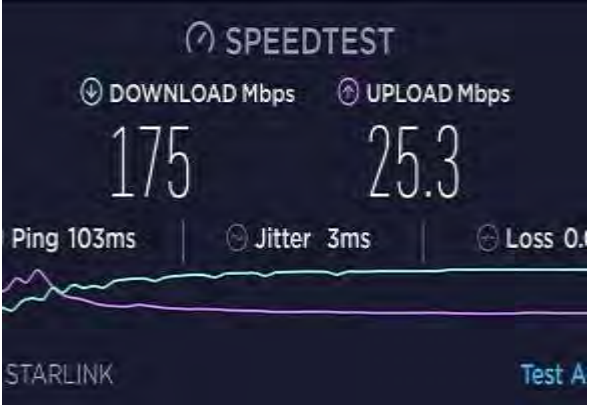
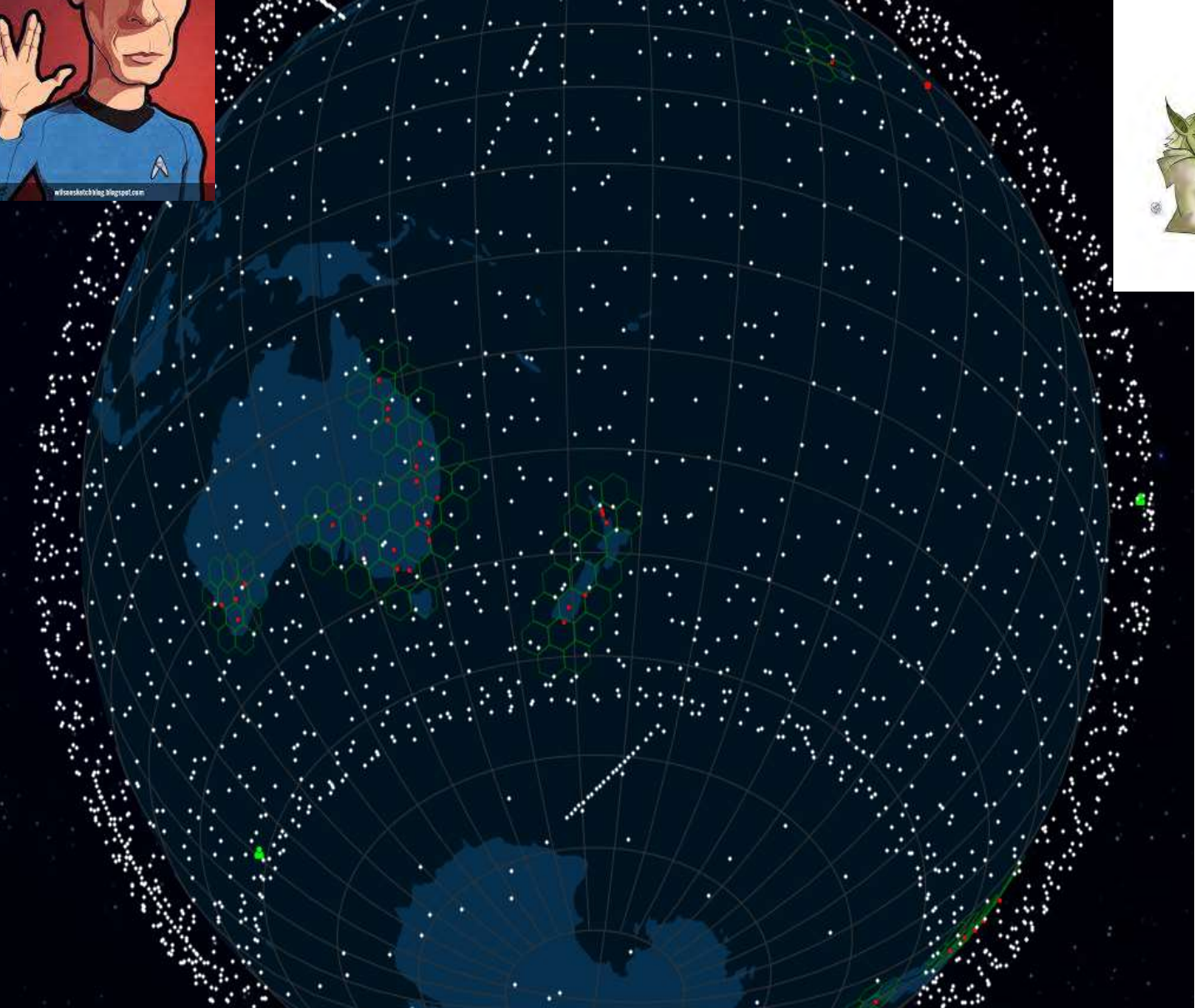


Esk Valley rescues 111 mobile ceased operating before rescues

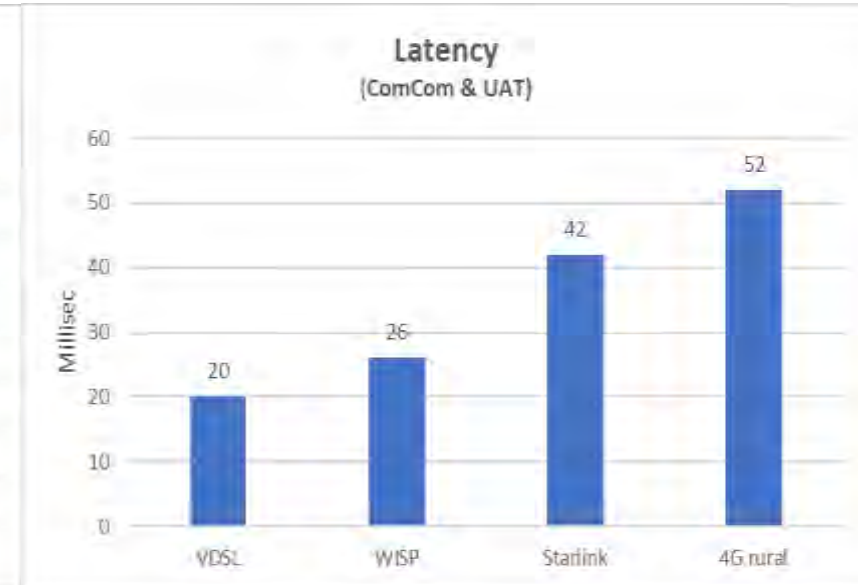
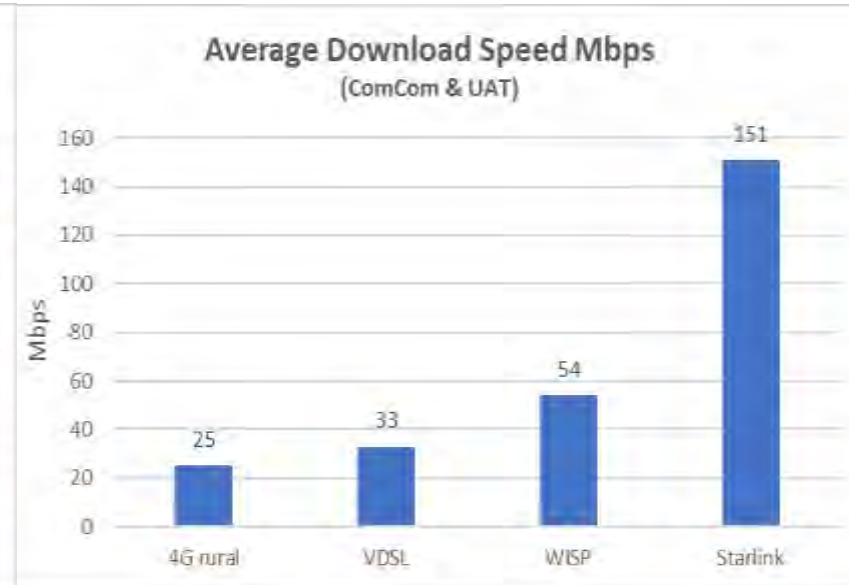
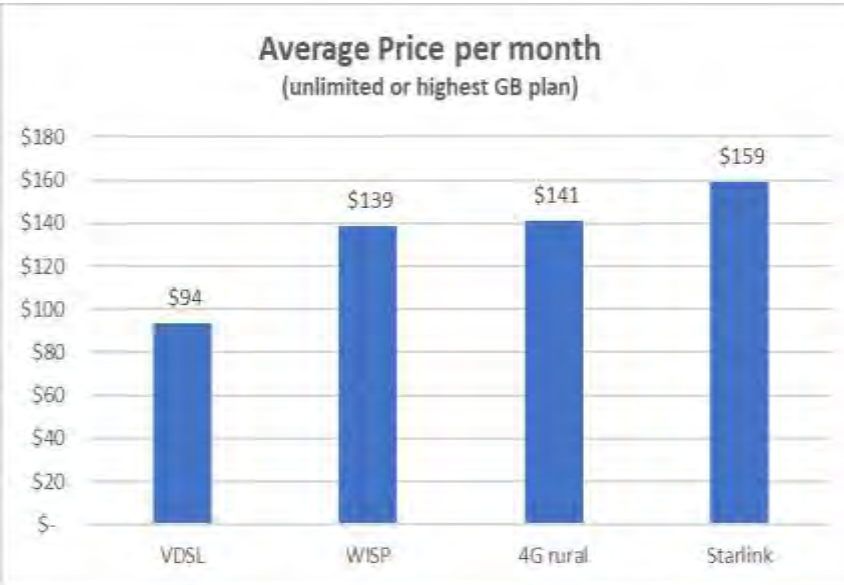


Helicopter generator delivery to cell site

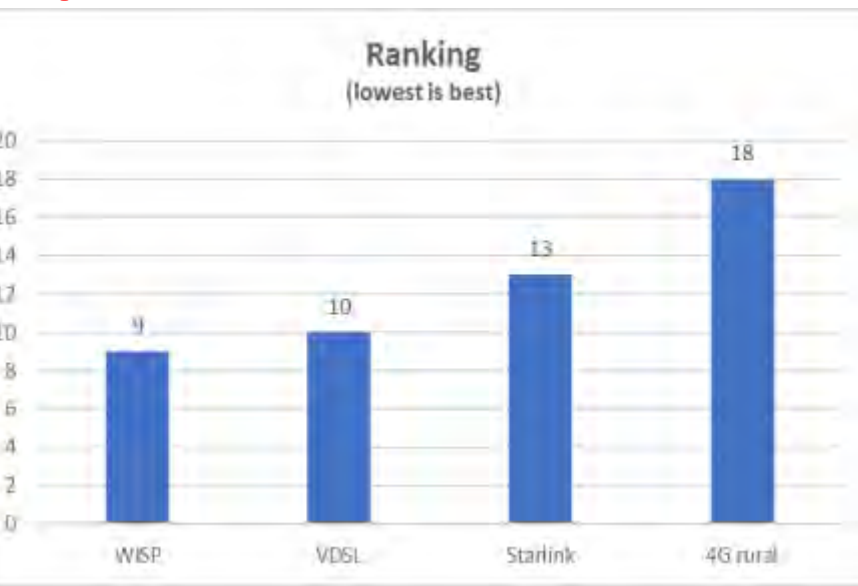
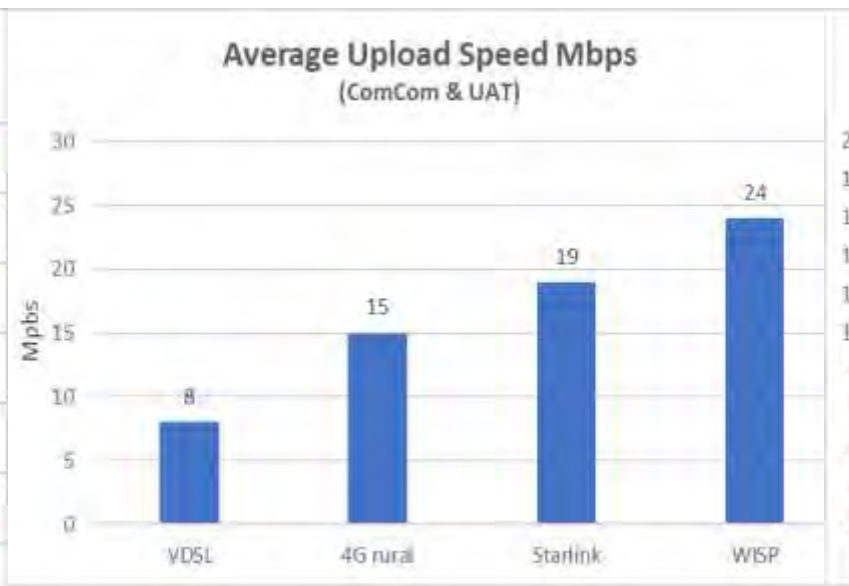
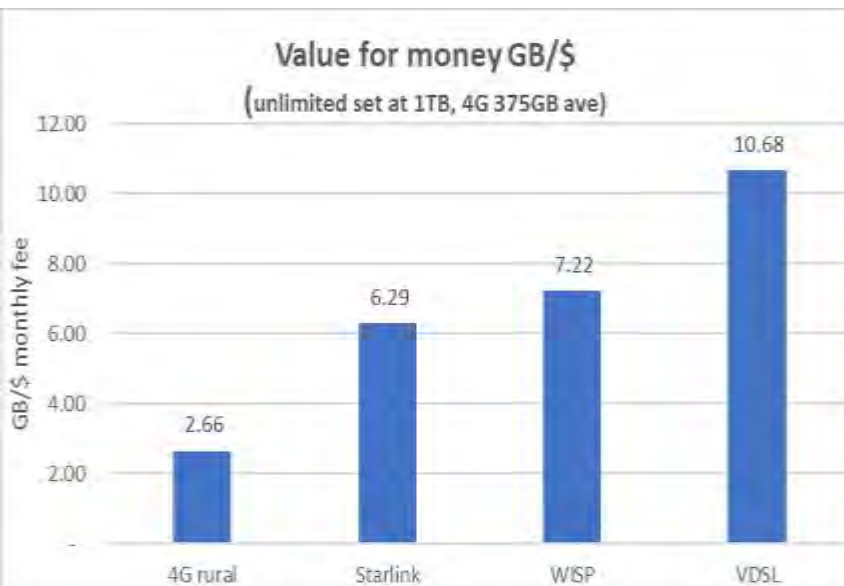
Low Earth Orbit satellite broadband



Starlink vs Terrestrial rural broadband



So which service is best.....well that depends...

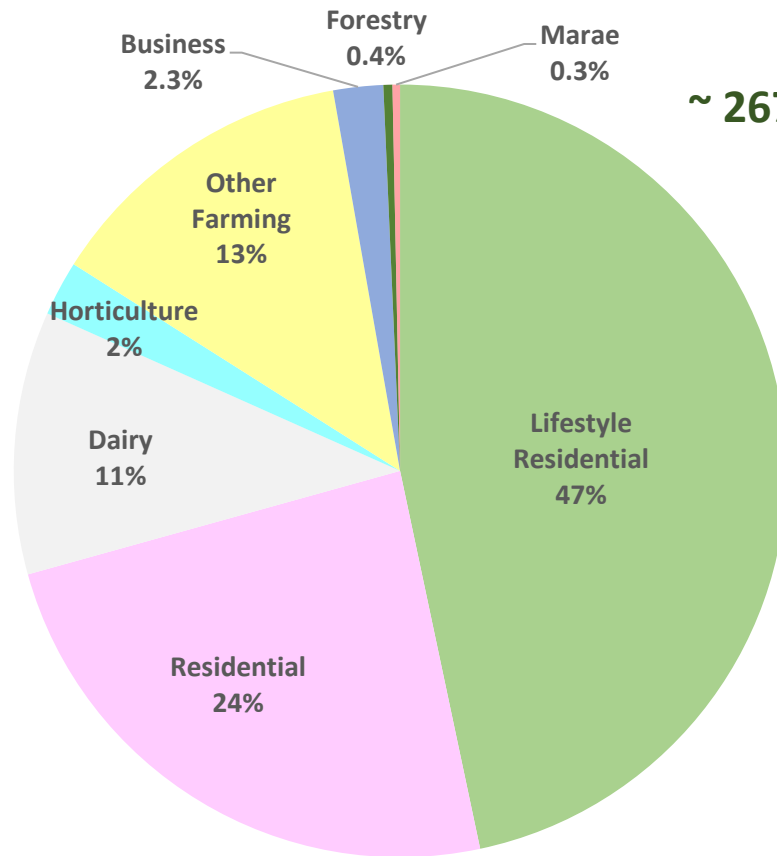


Who are rural customers?



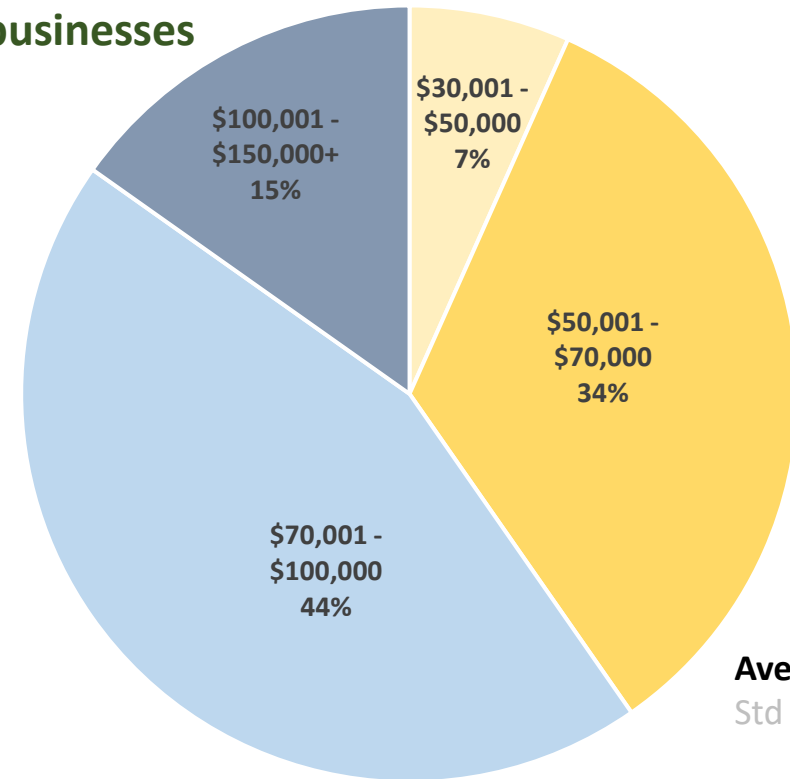
Who are rural customers?

Rural End Users non-UFB
Land Use Category



~ 267,000 households/businesses
13% of pop

Rural End Users non-UFB
Median Household Income Distribution



Average \$78,700
Std Dev \$21,800

National \$75,700

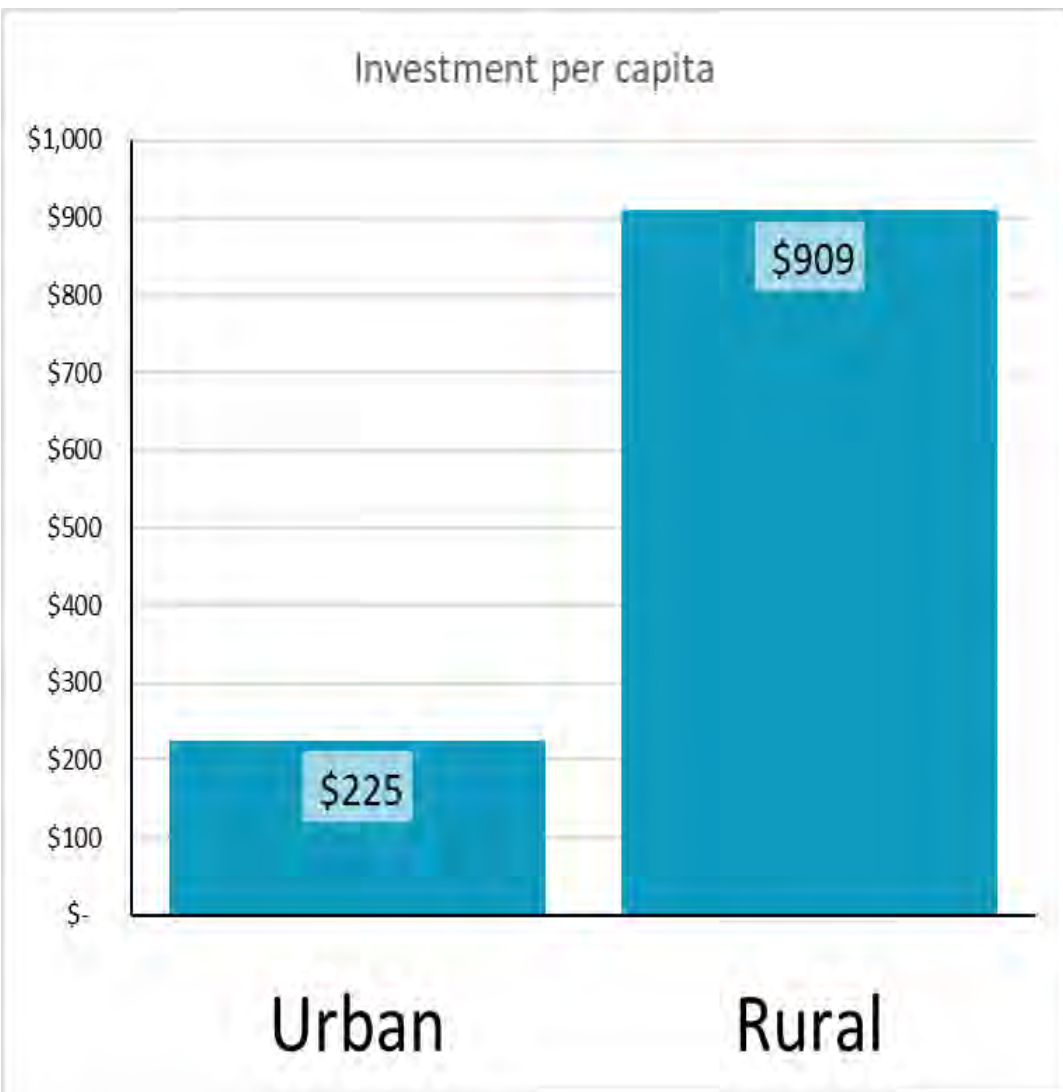
End User Category	Count
Lifestyle Residential	124783
Residential	64184
Dairy	29408
Horticulture	6154
Other Farming	35394
Business	5576
Forestry	1004
Marae	845

Affordable broadband defined as 2% of Household income

Source: Broadband Commission for Sustainable Development

Rural affordable Broadband should be ~\$126/month

Rural vs Urban government investment per capita



\$323m
invested to date

\$268m
total committed

\$591m
total spend*

* excludes RBI1 \$300m