

# Taranaki Regional Transport Committee



CIP connectivity programmes update

11 September 2019

# Overview – Taranaki region

## *Funding*

- Crown Infrastructure funding: **~\$47 million**
  - UFB: ~\$37 million
  - Rural broadband/mobile: ~\$10 million

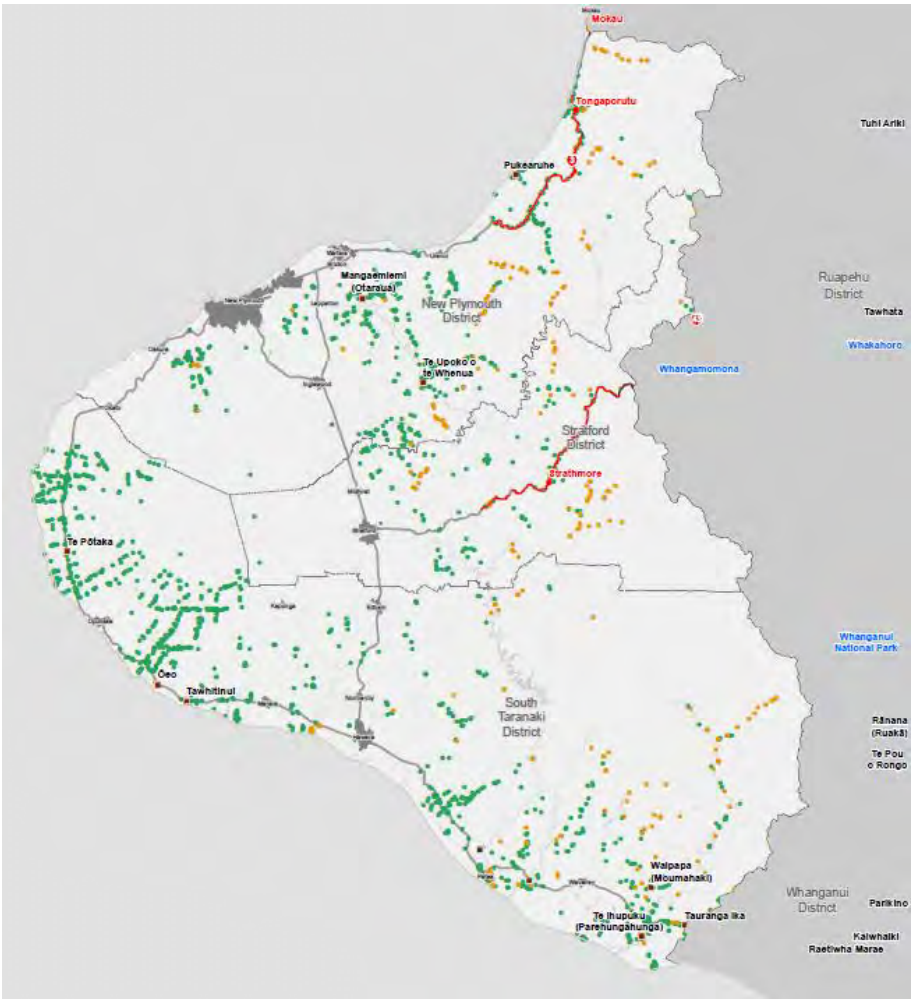
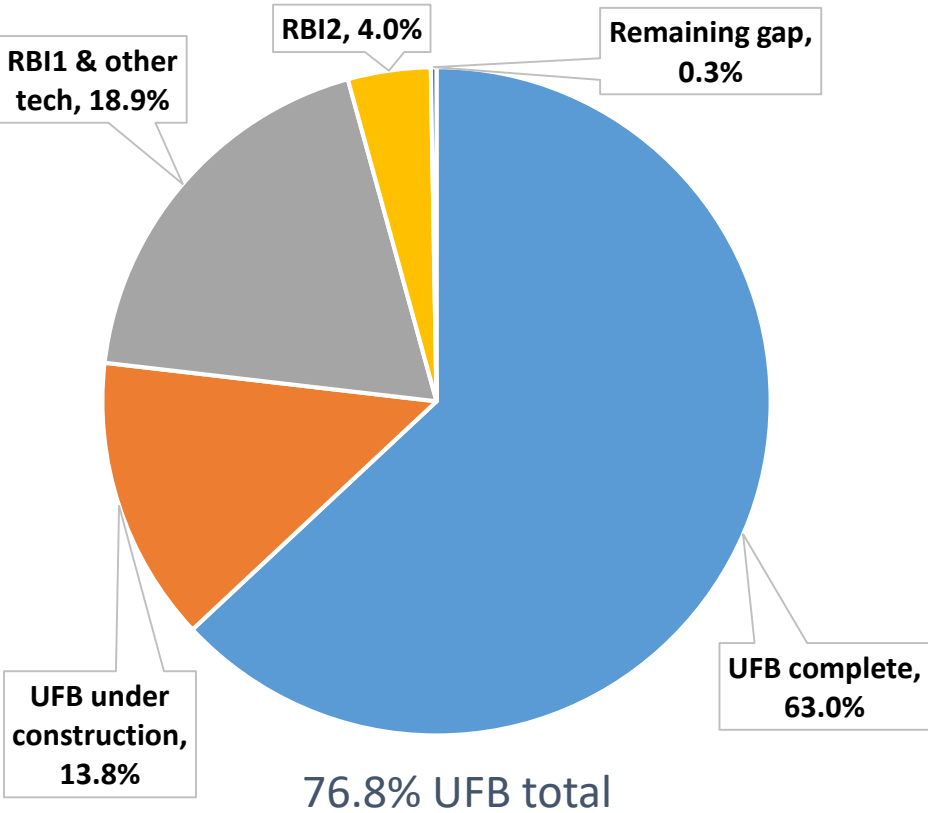
## *Coverage*

- UFB
  - ~77% Taranaki population
  - 17 cities/towns
- Rural Broadband
  - ~-2,415 end users
  - only 0.3% of regional population left
- Mobile black spots:
  - 78 km new State Highway
  - 3 tourism sites
  - 17 new mobile towers
- 41 Marae eligible for broadband coverage

**Overall, 99.8% of New Zealand's population will have access to broadband**

# New coverage in Taranaki by programme

Including the recently announced RBI2/MBSF expansion, the Taranaki region will have the following broadband coverage, by programme:



**Taranaki**  
Regional Council



# Progress – UFB programme

|                 | Town               | District/City          | End User      | Pop Est       | Completion | Partner |
|-----------------|--------------------|------------------------|---------------|---------------|------------|---------|
| TARANAKI REGION | New Plymouth       | New Plymouth           | 25,593        | 56,512        | COMPLETE   | UFF     |
|                 | Oakura             | New Plymouth           | 680           | 1,976         | COMPLETE   | UFF     |
|                 | Inglewood          | New Plymouth           | 1,546         | 3,535         | 2H_2019    | UFF     |
|                 | Lepperton          | New Plymouth           | 109           | 247           | 1H_2020    | Chorus  |
|                 | Waitara            | New Plymouth           | 2,863         | 7,133         | 1H_2020    | UFF     |
|                 | Okato              | New Plymouth           | 284           | 594           | 2H_2020    | Chorus  |
|                 | Urenui             | New Plymouth           | 229           | 344           | 1H_2021    | Chorus  |
|                 | Hawera             | South Taranaki         | 4,494         | 9,756         | COMPLETE   | UFF     |
|                 | Normanby           | South Taranaki         | 418           | 1,253         | COMPLETE   | UFF     |
|                 | Opunake            | South Taranaki         | 847           | 1,326         | COMPLETE   | Chorus  |
|                 | Eltham             | South Taranaki         | 1,018         | 1,791         | COMPLETE   | UFF     |
|                 | Manaia             | South Taranaki         | 668           | 1,014         | 2H_2019    | Chorus  |
|                 | Waverley           | South Taranaki         | 422           | 688           | 2H_2019    | Chorus  |
|                 | Kaponga            | South Taranaki         | 174           | 271           | 1H_2020    | Chorus  |
|                 | Patea              | South Taranaki         | 689           | 1,020         | 1H_2020    | Chorus  |
|                 | Stratford          | Stratford              | 2,804         | 5,758         | COMPLETE   | UFF     |
|                 | Midhirst           | Stratford              | 86            | 163           | 1H_2020    | Chorus  |
|                 | <b>Grand Total</b> | <b>Taranaki Region</b> | <b>42,924</b> | <b>93,380</b> |            |         |

Inglewood has  
just been  
handed over

REGION COMPLETED TO DATE:

34,836 EU

82% BUILD COMPLETE

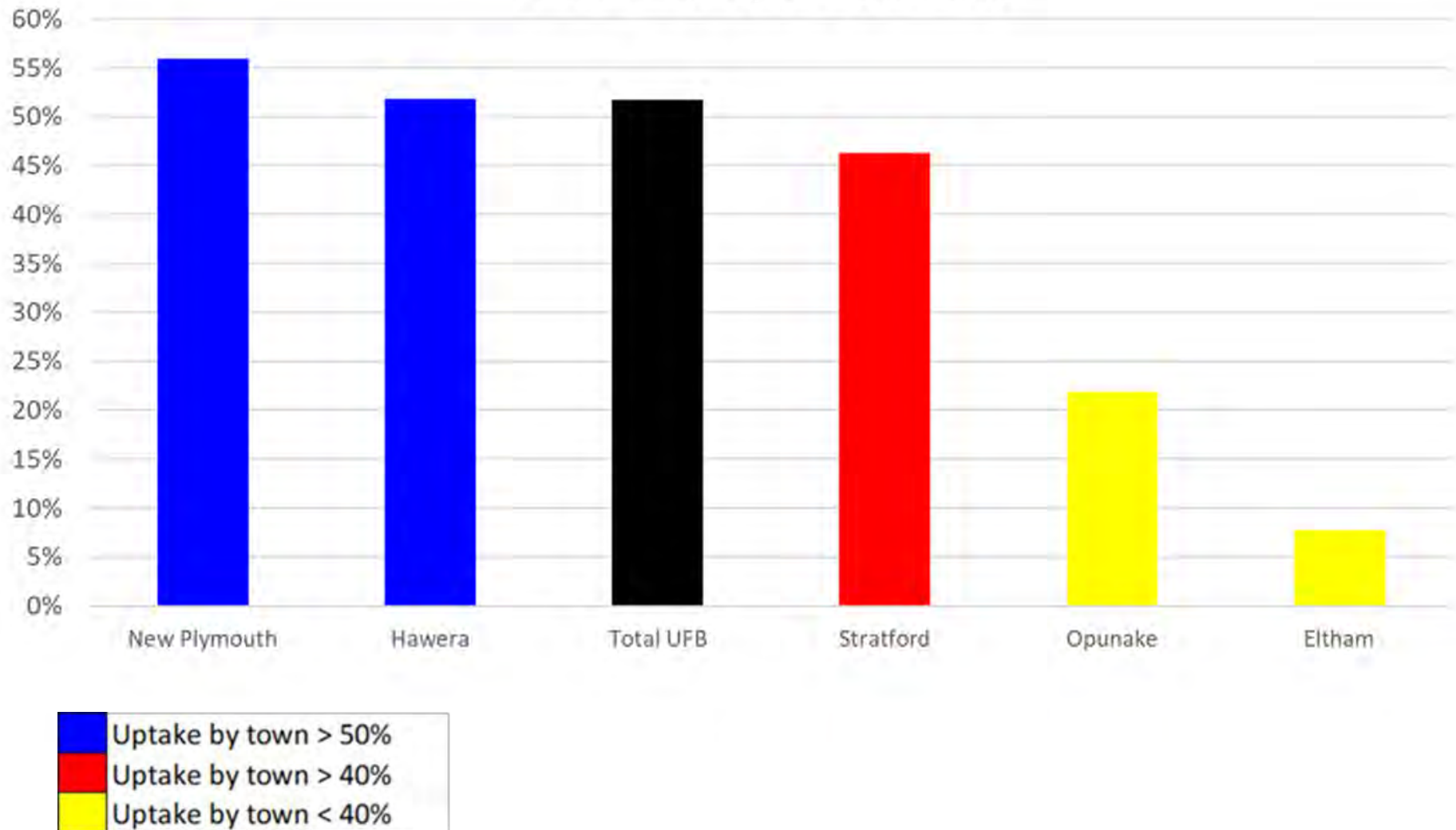
## UFB coverage in Taranaki

- 7 cities/towns (~32,800 premises) completed
- 3 towns underway, 7 to go
- ~42,900 premises total



# UFB uptake

*Taranaki - UFB Uptake by town/city*



# Progress – RBI2/MBSF programme

## RBI2/MBSF coverage to date in Taranaki

- ~1,065 rural households and businesses with new RBI2 broadband coverage
- RCG and mobile network operators have been building this summer, and a number of sites in Taranaki under way:
  - Junction Rd (**just completed**)
  - Te Wera
  - Douglas
- Primo Wireless build underway (~270 sites so far)



Primo site at Kaitake



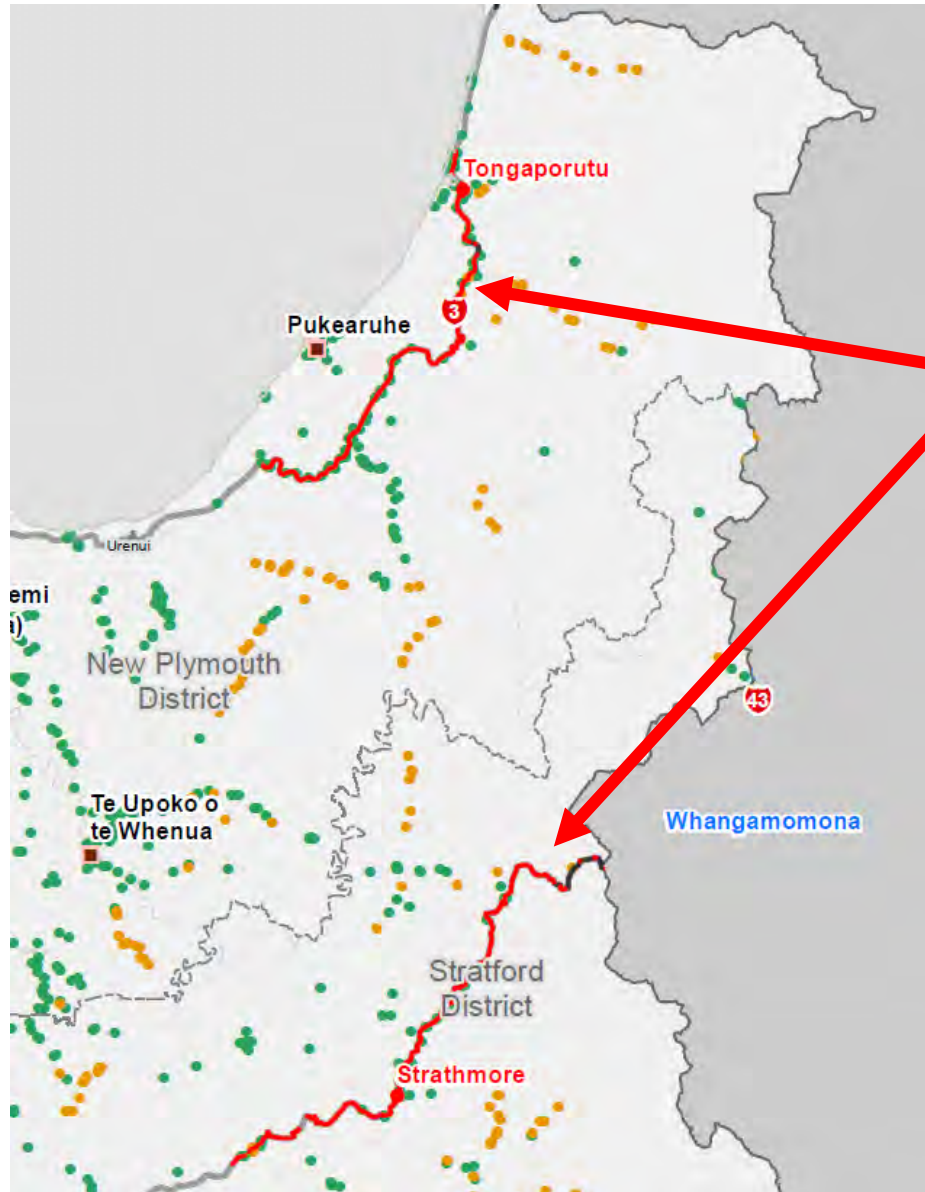
**PRIMO**  
WIRELESS  
CONNECTING TARANAKI



Rural  
Connectivity Group



# MBSF – State Highway coverage

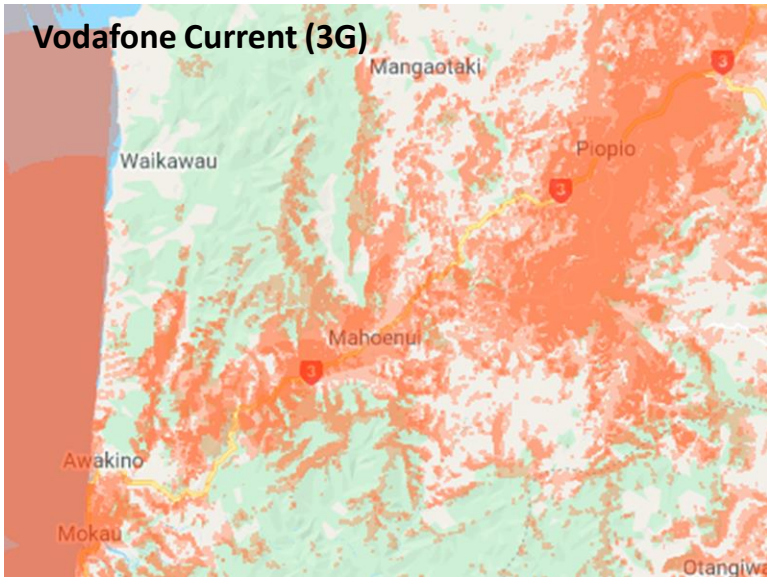
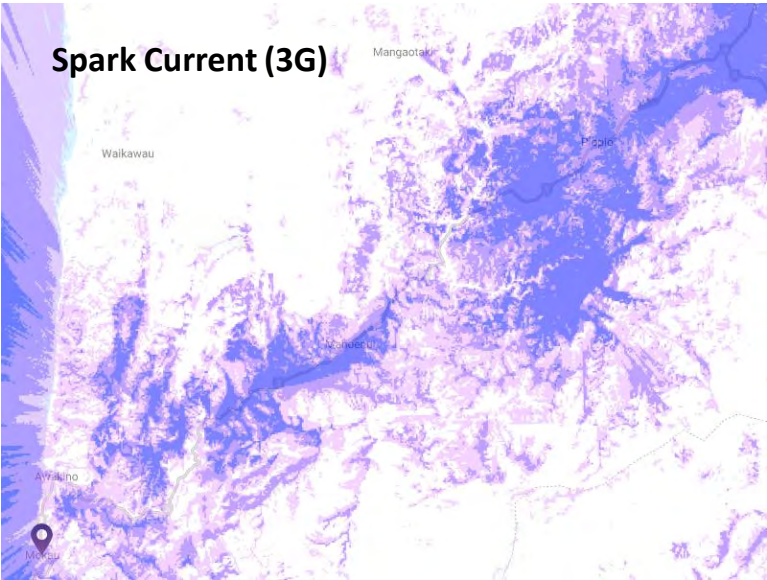


78 km new State Highway coverage

- State Highway New Coverage Expansion Contracts\*
- State Highway New Coverage Base Contracts\*
- State Highway Remaining

31 km remaining

# Existing Mobile Coverage State Highway 3

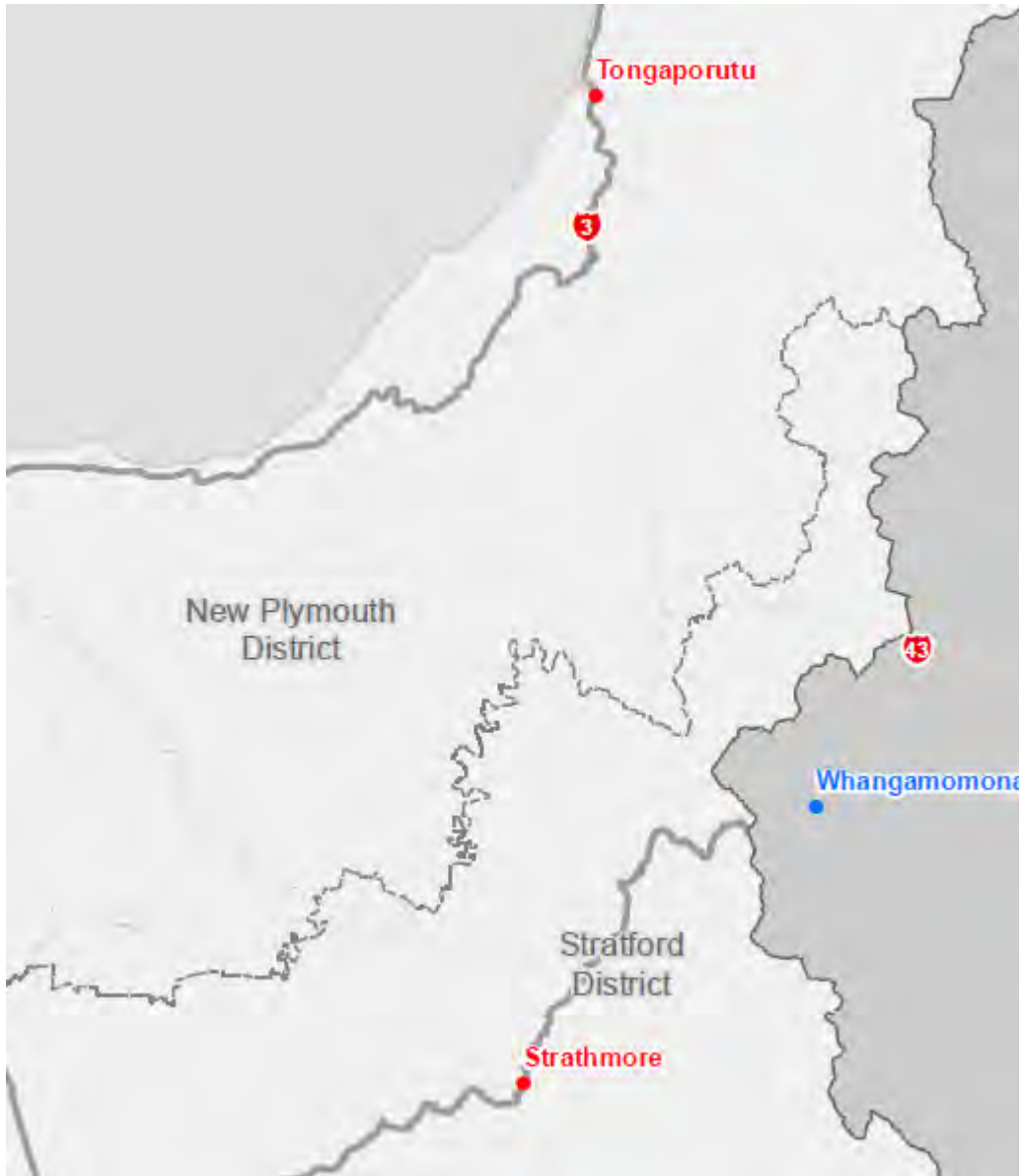


| HIGHWAY BLACK SPOT ZONE ID | STATE HIGHWAY LOCATION | STATE HIGHWAY | APPROXIMATE START AND END POINTS | REGION/S          | MAXIMUM DRIVETIME FROM COVERAGE (MINUTES) | AVERAGE DAILY TRAFFIC | APPROXIMATE LENGTH OF STRETCH (KM) |
|----------------------------|------------------------|---------------|----------------------------------|-------------------|-------------------------------------------|-----------------------|------------------------------------|
| 34                         | North Taranaki         | 3             | Awakino River, Mangamaio Road    | Taranaki, Waikato | 10                                        | 2,509                 | 68                                 |

- ~ 31 Km of SHW 3 will receive mobile coverage from 5 mobile towers



# MBSF – Tourism site coverage



3 tourism sites

- Tourism New Coverage Expansion Contacts\*
- Tourism New Coverage Base Contracts\*



# Progress – RBI2/MBSF programme



Source:  
Primo  
Wireless



# Progress – RBI2/MBSF programme



Rural Connectivity Group –  
Junction Road tower



# Rural broadband offers



|                                                                                                              |                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>FREE OFF PEAK DATA</b><br><b>80GB</b><br><small>80GB of data<br/>Up to 50+ Mbps</small><br><b>\$79</b>    | <b>FREE OFF PEAK DATA</b><br><b>130GB</b><br><small>130GB of data<br/>Up to 50+ Mbps</small><br><b>\$99</b>  |
| <b>FREE OFF PEAK DATA</b><br><b>180GB</b><br><small>180GB of data<br/>Up to 50+ Mbps</small><br><b>\$119</b> | <b>FREE OFF PEAK DATA</b><br><b>250GB</b><br><small>250GB of data<br/>Up to 50+ Mbps</small><br><b>\$139</b> |



## Rural Wireless Broadband and Landline

This package comes with a landline. Local and national

| Charge                 | Monthly data allowance |
|------------------------|------------------------|
| <b>\$95.99</b> /month  | <b>60GB</b>            |
| <b>\$105.99</b> /month | <b>120GB</b>           |

## Naked Rural Wireless Broadband

Rural Wireless Broadband without the landline.

| Charge                | Monthly data allowance |
|-----------------------|------------------------|
| <b>\$95.99</b> /month | <b>120GB</b>           |



| Rural Broadband 120GB and Calling                                                                                                                                                                                                                                                                                                          | Rural Broadband 200GB and Calling                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>120GB</b><br><small>of wireless data</small><br><ul style="list-style-type: none"> <li>✓ Get \$10 off your On Account plan*</li> <li>✓ Home calling line</li> <li>✓ National landline calling</li> <li>✓ Superfast wireless 4G capable modem</li> <li>✓ Flexi Data 15GB for \$20</li> </ul> <b>\$105.99</b><br><small>per month</small> | <b>200GB</b><br><small>of wireless data</small><br><ul style="list-style-type: none"> <li>✓ Get \$10 off your On Account plan*</li> <li>✓ Home calling line</li> <li>✓ National landline calling</li> <li>✓ Superfast wireless 4G capable modem</li> <li>✓ Flexi Data 15GB for \$20</li> </ul> <b>\$165.99</b><br><small>per month</small> |
| Rural Broadband 120GB                                                                                                                                                                                                                                                                                                                      | Rural Broadband 200GB                                                                                                                                                                                                                                                                                                                      |
| <b>120GB</b><br><small>of wireless data</small><br><ul style="list-style-type: none"> <li>✓ Get \$10 off your On Account plan*</li> <li>✓ Superfast wireless 4G capable modem</li> <li>✓ Flexi Data 15GB for \$20</li> </ul> <b>\$95.99</b><br><small>per month</small>                                                                    | <b>200GB</b><br><small>of wireless data</small><br><ul style="list-style-type: none"> <li>✓ Get \$10 off your On Account plan*</li> <li>✓ Superfast wireless 4G capable modem</li> <li>✓ Flexi Data 15GB for \$20</li> </ul> <b>\$155.99</b><br><small>per month</small>                                                                   |

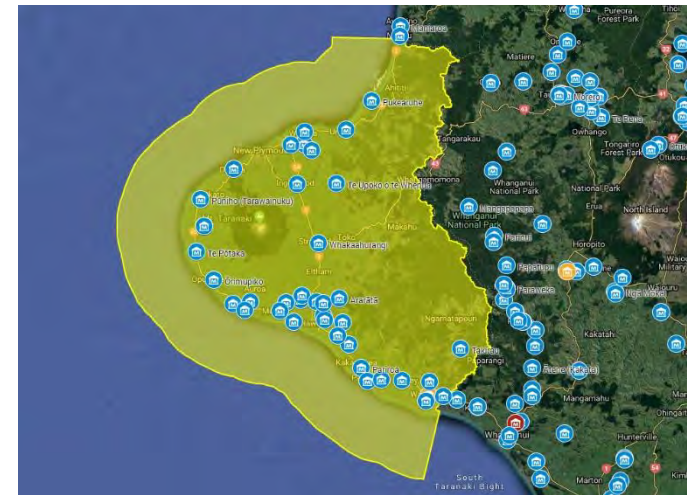
# PGF Marae Digital Connectivity programme



- 41 eligible Marae in Taranaki region
- 112 applications
- ~57 in progress
- RFP in July



## Taranaki region eligible Marae



- Infrastructure coverage
- Assisting connectivity package
- Assisting equipment package

# On-farm mobile solutions

## Let our Sure Signal device give you a boost

What does it cost?

What you will need



- \$199 incl GST
- Boosts the 3G signal throughout your house by up to 30 metres
- Allows up to eight people to be on their Vodafone mobiles at the same time
- Easy to install - connects to your Vodafone fixed broadband line
- 30-day money-back guarantee

Buy now

## Large farm



### Outdoor Femtocell

Outdoor Femtocell uses your Vodafone VDSL, Fibre or Satellite broadband to boost the 3G mobile signal throughout your medium sized office. It also creates outdoor 3G coverage in remote locations, giving you more bars on your mobile and enhanced call quality.

Provide up to 500 metres of 3G indoor and outdoor coverage with up to 32 users. Peak speeds of 21 Mbps download and 5.7 Mbps upload.

Mobile data and calling coverage solution.

Recommended for outdoor use.



#### Requirements

Vodafone fixed line connection with a minimum upload & download speed of 2 Mbps or satellite connection.

Price on application and costs will vary by location and backhaul. Indicative costs are around \$1600 for hardware, \$3000 for installation and ongoing annual backhaul costs of \$1200 per year.



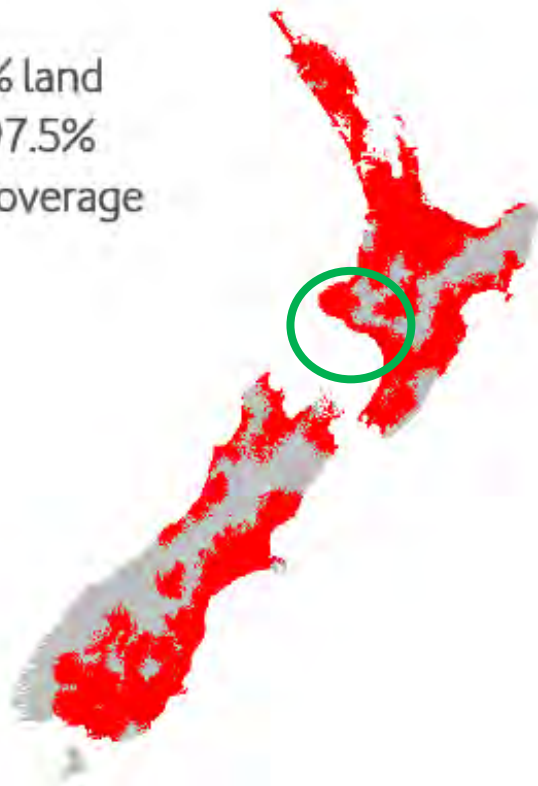


IoT  
Solutions

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# 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

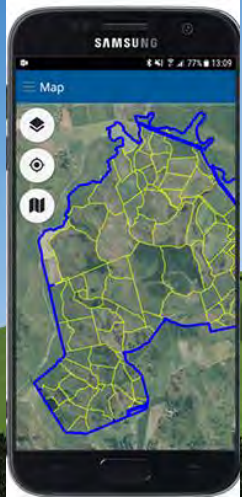


Note: DOC land/national parks: 30% of NZ's land mass



Internet of Things  
in rural New Zealand

HARVEST.com  
REMOTE MONITORING 0800 HARVEST



TANK MONITORING



SILO MONITORING

EFFLUENT MONITORING  
& FAILSAFE

PIVOT MONITORING

SOIL MOISTURE MONITORING

WEATHER STATION

POND MONITORING &  
PUMP CONTROL

WATER METER  
MONITORING

MILK VAT MONITORING

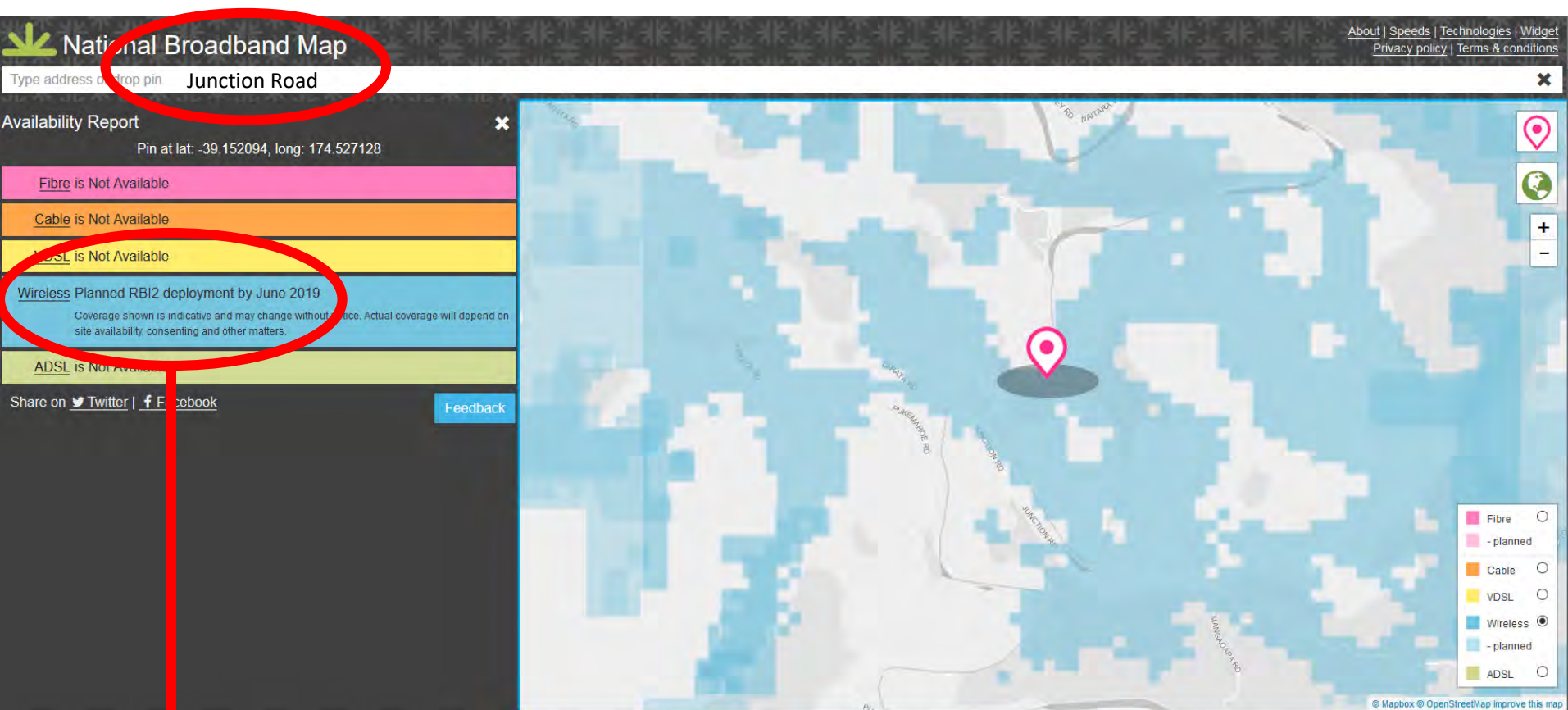
ELECTRIC FENCE MONITORING

SOIL MOISTURE MONITORING





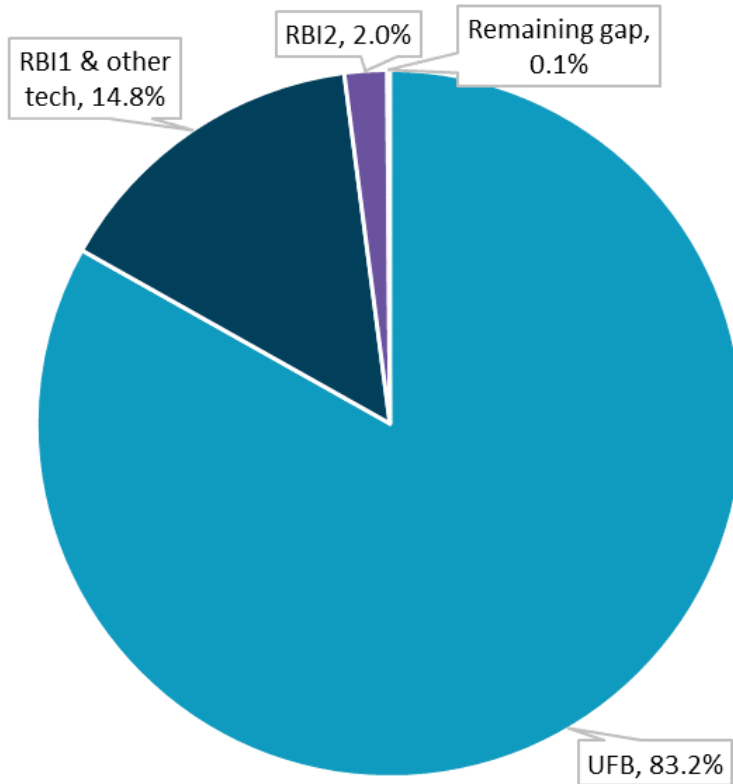
# National Broadband Map: Wireless coverage



Junction Road tower now complete



# NPDC



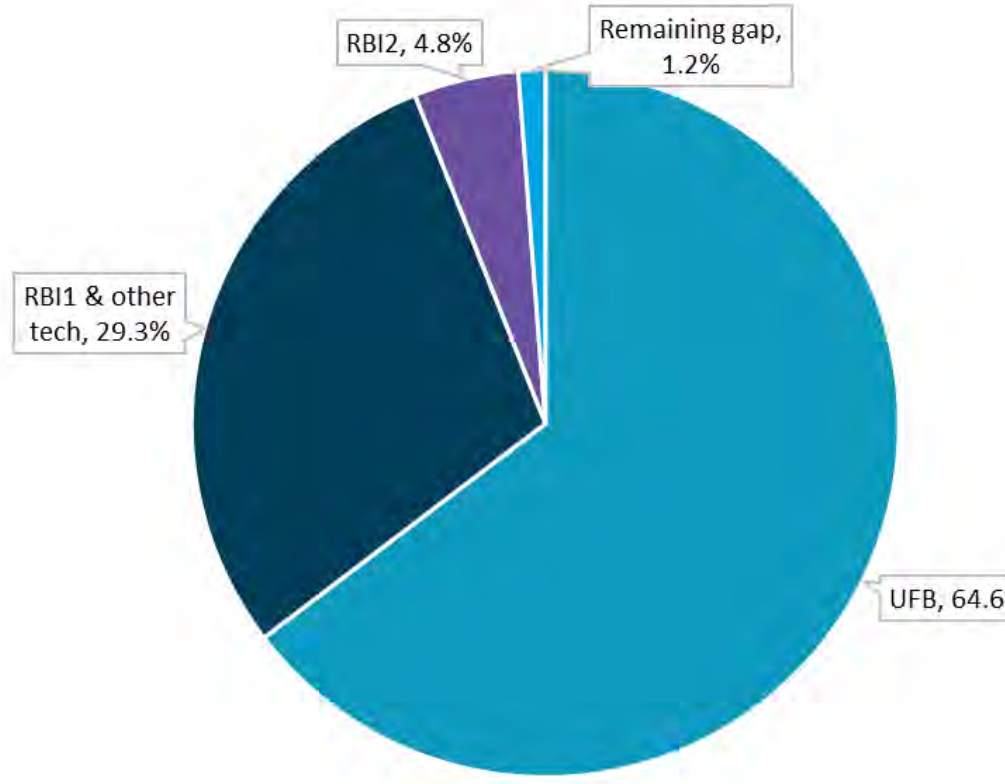
State Highway km: 30

Tourism sites: 1

Mobile towers: 6

## Stratford District

In the heart of Taranaki



State Highway km: 48

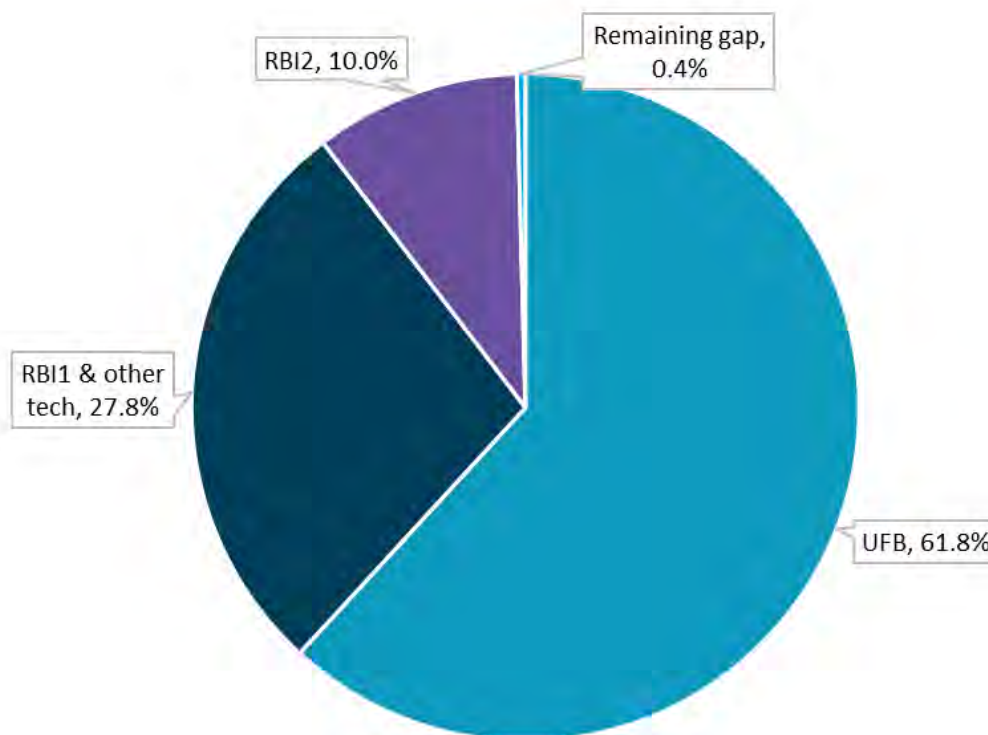
Tourism sites: 2

Mobile towers: 5



# South Taranaki

## Alive with Opportunity



State Highway km: 0

Tourism sites: 0

Mobile towers: 6

# Questions?



RCG MOCN tower – Fisher Riley, Northland