

| Data Source Key: Technology | Telcos Public Website Consumer Su Availability/Coverage |
|-------------------------------|---|
| Copper | <ul style="list-style-type: none"> • Spatial data for where copper is available. • Where wholesale services are available: UCLL/UBA/UCLFS/CMAR/commercial/other • Where all cabinets, cell towers etc. are located. • TSO Addresses (sourced from Chorus). • Standby battery capacity available (resilience) |
| Wireless Broadband (cellular) | <ul style="list-style-type: none"> • Spatial data for where wireless broadband is available. RCG/CIP? |
| Satellite (Geo/Leo) | <ul style="list-style-type: none"> • Spatial data for where satellite data is available. |

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| Survey MBNZ Stats NZ Connections | Price (for affordability calculation) |
|--|--|
| <ul style="list-style-type: none"> Absolute number of connections. Geographical distribution of connections. | <ul style="list-style-type: none"> Plan type by land parcel. Pricing information by land parcel. |
| <ul style="list-style-type: none"> Absolute number of connections. Geographical distribution of connections. | <ul style="list-style-type: none"> Plan type by land parcel. Pricing information by land parcel. |
| <ul style="list-style-type: none"> Absolute number of connections. Geographical distribution of connections. | <ul style="list-style-type: none"> Plan type by land parcel. Pricing information by land parcel. |

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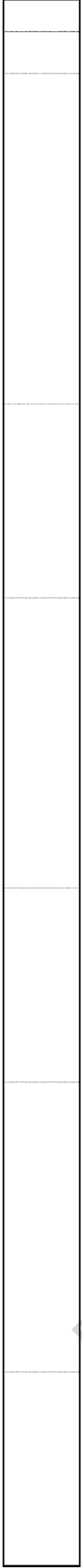
| Affordability | Performance |
|---|---|
| <ul style="list-style-type: none"> • Pricing and availability data. | <ul style="list-style-type: none"> • Retailers service plan and price. • Headline speed (cabinet level + each land parcel connected to cabinet). <ul style="list-style-type: none"> - EIR speed (fixed connection based). - expected speed (telcos). • CIR (min speed). • Outage data (frequency/duration in last 2 years). • Standby battery capacity available. |
| <ul style="list-style-type: none"> • Income data from Stats NZ (on a meshblock level). | <ul style="list-style-type: none"> • MBNZ performance data (24/7 and peak). <ul style="list-style-type: none"> - Download - Upload - Latency - Outages |
| <ul style="list-style-type: none"> • Pricing and availability data. | <ul style="list-style-type: none"> • Retailers service plan and price. • Headline speed (cabinet level + each land parcel connected to cabinet). <ul style="list-style-type: none"> - EIR speed (fixed connection based). - expected speed (telcos). • CIR (min speed). • Outage data (frequency/duration in last 2 years). • Standby battery capacity available. |
| <ul style="list-style-type: none"> • Income data from Stats NZ (on a meshblock level). | <ul style="list-style-type: none"> • MBNZ performance data (24/7 and peak). <ul style="list-style-type: none"> - Download - Upload - Latency - Outages |
| <ul style="list-style-type: none"> • Pricing and availability data. | <ul style="list-style-type: none"> • Retailers service plan and price. • Headline speed (cabinet level + each land parcel connected to cabinet). <ul style="list-style-type: none"> - EIR speed (fixed connection based). - expected speed (telcos). • CIR (min speed). • Outage data (frequency/duration in last 2 years). • Standby battery capacity available. |
| <ul style="list-style-type: none"> • Income data from Stats NZ (on a meshblock level). | <ul style="list-style-type: none"> • MBNZ performance data (24/7 and peak). <ul style="list-style-type: none"> - Download - Upload - Latency - Outages |

| Consumer Experience | Consumer Usage |
|--|---|
| <ul style="list-style-type: none"> • Usability data <ul style="list-style-type: none"> - does it meet consumers need? - can consumers do what they want with their connection? • Reliability data <ul style="list-style-type: none"> - disconnections / outages • Technology and location data | <ul style="list-style-type: none"> • Usage - (provision of data, provision of voice) |
| <ul style="list-style-type: none"> • Usability data <ul style="list-style-type: none"> - does it meet consumers need? - can consumers do what they want with their connection? • Reliability data <ul style="list-style-type: none"> - disconnections / outages • Technology and location data | <ul style="list-style-type: none"> • Usage - (provision of data, provision of voice) |
| <ul style="list-style-type: none"> • Usability data <ul style="list-style-type: none"> - does it meet consumers need? - can consumers do what they want with their connection? • Reliability data <ul style="list-style-type: none"> - disconnections / outages • Technology and location data | <ul style="list-style-type: none"> • Usage - (provision of data, provision of voice) |

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| Fixed Wireless (WISPs) | <ul style="list-style-type: none"> • Spatial data for where Fixed Wireless (WISPs) is available. |
| Backhaul | <ul style="list-style-type: none"> • By node (cabinet or cell site), derived by end user by understanding coverage... |
| Landline - ask is it VOIP/POTS | |
| Technology | Spark |
| Copper | Retail copper but getting out. Obligations under TSO. |
| Wireless Broadband (mobile) | Yes |
| Satellite (Geo/Leo) | No |
| Fixed Wireless (WISPs) - 37 | No |
| Backhaul (national or inter-regional?) | Yes - Spark Wholesale |

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|--|--|
| <ul style="list-style-type: none"> • Absolute number of connections. • Geographical distribution of connections. | <ul style="list-style-type: none"> • Plan type by land parcel. • Pricing information by land parcel. |
| <ul style="list-style-type: none"> • Cabinet (ie specific cabinet area) • Cell site • WISP Tower | <p>Highly variable - Backhaul Study, Get info from Chorus questionnaire. Do we want it from every provider? To DISCUSS.</p> |
| | |
| <p>One NZ</p> | <p>2Degrees/Vocus</p> |
| <p>Yes</p> | <p>Yes</p> |
| <p>Yes</p> | <p>Yes</p> |
| <p>No</p> | <p>No</p> |
| <p>No</p> | <p>No</p> |
| <p>Yes</p> | <p>Yes - Vocus</p> |

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|---|---|
| <ul style="list-style-type: none"> • Pricing and availability data. | <ul style="list-style-type: none"> • Retailers service plan and price. • Headline speed (cabinet level + each land parcel connected to cabinet). - EIR speed (fixed connection based). - expected speed (telcos). • CIR (min speed). • Outage data (frequency/duration in last 2 years). • Standby battery capacity available. |
| <ul style="list-style-type: none"> • Income data from Stats NZ (on a meshblock level). | <ul style="list-style-type: none"> • MBNZ performance data (24/7 and peak). - Download - Upload - Latency - Outages |
| <ul style="list-style-type: none"> • Not applicable | <ul style="list-style-type: none"> • Backhaul capacity connected |
| | |
| Chorus | WISPs(?) |
| Yes | No |
| | No |
| | No |
| | Yes |
| Yes | No |

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|--|---|
| <ul style="list-style-type: none"> • Usability data <ul style="list-style-type: none"> - does it meet consumers need? - can consumers do what they want with their connection? • Reliability data <ul style="list-style-type: none"> - disconnections / outages • Technology and location data | <ul style="list-style-type: none"> • Usage - (provision of data, provision of voice) |
| | |
| <ul style="list-style-type: none"> • Not applicable (TBC) | <ul style="list-style-type: none"> • Not applicable |
| | |
| Starlink | RCG |
| No | No |
| No | Yes |
| Yes | No |
| No | No |
| No | No |

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| Other Backhaul Providers | LFCs | Copper Retail? | Satellite Retail? | Satellite Wholesale? Kacific |
|--------------------------|------|----------------|-------------------|---------------------------------|
| No | No | Yes | No | No |
| No | No | No | No | No |
| No | No | No | Yes | Yes |
| No | No | No | No | No |
| Yes - Kordia | Yes | No | No | No |

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| CIP |
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| Unique identifier | Telco | Technology | Category |
|-------------------|----------|-------------------------------|-----------------------|
| 1.1 | Chorus | Copper | Availability/Coverage |
| 1.2 | Chorus | Copper | Availability/Coverage |
| 1.3 | Chorus | Copper | Availability/Coverage |
| 1.4 | Chorus | Copper | Availability/Coverage |
| 1.5 | Chorus | Copper | Availability/Coverage |
| 1.6 | Chorus | Copper | Connections |
| 1.7 | Chorus | Copper | Connections |
| 1.8 | Chorus | Copper | Price/Affordability |
| 1.9 | Chorus | Copper | Price/Affordability |
| 1.10 | Chorus | Copper | Price/Affordability |
| 1.11 | Chorus | Copper | Price/Affordability |
| 1.12 | Chorus | Copper | Performance |
| 1.13 | Chorus | Copper | Performance |
| 1.14 | Chorus | Copper | Performance |
| 1.15 | Chorus | Copper | Performance |
| 1.16 | Chorus | Copper | Performance |
| 1.17 | Chorus | Copper | Performance |
| 1.18 | Chorus | Copper | Performance |
| 1.19 | Chorus | Copper | Performance |
| 1.20 | Chorus | Copper | Consumer Experience |
| 1.21 | Chorus | Copper | Consumer Experience |
| 1.22 | Chorus | Copper | Consumer Experience |
| 1.23 | Chorus | Copper | Consumer Usage |
| 2.1 | Spark NZ | Wireless Broadband (cellular) | Availability/Coverage |
| 2.2 | Spark NZ | Wireless Broadband (cellular) | Availability/Coverage |
| 2.3 | Spark NZ | Wireless Broadband (cellular) | Availability/Coverage |
| 2.4 | Spark NZ | Wireless Broadband (cellular) | Connections |
| 2.5 | Spark NZ | Wireless Broadband (cellular) | Connections |
| 2.6 | Spark NZ | Wireless Broadband (cellular) | Price/Affordability |
| 2.7 | Spark NZ | Wireless Broadband (cellular) | Price/Affordability |
| 2.8 | Spark NZ | Wireless Broadband (cellular) | Price/Affordability |
| 2.9 | Spark NZ | Wireless Broadband (cellular) | Price/Affordability |
| 2.10 | Spark NZ | Wireless Broadband (cellular) | Performance |
| 2.11 | Spark NZ | Wireless Broadband (cellular) | Performance |
| 2.12 | Spark NZ | Wireless Broadband (cellular) | Performance |
| 2.13 | Spark NZ | Wireless Broadband (cellular) | Performance |
| 2.14 | Spark NZ | Wireless Broadband (cellular) | Performance |
| 2.15 | Spark NZ | Wireless Broadband (cellular) | Performance |
| 2.16 | Spark NZ | Wireless Broadband (cellular) | Performance |
| 2.17 | Spark NZ | Wireless Broadband (cellular) | Performance |
| 2.18 | Spark NZ | Wireless Broadband (cellular) | Consumer Experience |
| 2.19 | Spark NZ | Wireless Broadband (cellular) | Consumer Experience |
| 2.20 | Spark NZ | Wireless Broadband (cellular) | Consumer Experience |
| 2.21 | Spark NZ | Wireless Broadband (cellular) | Consumer Usage |
| 3.1 | One NZ | Wireless Broadband (cellular) | Availability/Coverage |
| 3.2 | One NZ | Wireless Broadband (cellular) | Availability/Coverage |

| Description |
|--|
| Spacial data for where copper is available. |
| Where wholesale services are available: UCLL/UBA/UCLFS/CMAR/commercial/other |
| Where all cabinets, cell towers etc. are located. |
| TSO Addresses (sourced from Chorus). |
| Standby battery capacity available (resilience) |
| Absolute number of connections. |
| Geographical distribution of connections. |
| Plan type by land parcel. |
| Pricing information by land parcel. |
| Price data from public telco websites. |
| Income data from Stats NZ (on a meshblock level). |
| MBNZ performance data (24/7 and peak).- Download- Upload- Latency- Outages |
| Retailers service plan and price. |
| Headline speed (cabinet level + each land parcel connected to cabinet). |
| EIR speed (fixed connection based). |
| Expected speed (telcos). |
| CIR (min speed). |
| Outage data (frequency/duration in last 2 years). |
| Standby battery capacity available. |
| Usability data- does it meet consumers need?- can consumers do what they want with their connection? |
| Reliability data - disconnections / outages |
| Technology and location data |
| Usage - (provision of data, provision of voice) |
| Spacial data for where wireless broadband is available |
| Where all cabinets, cell towers etc. are located. |
| Standby battery capacity available (resilience) |
| Absolute number of connections. |
| Geographical distribution of connections. |
| Plan type by land parcel. |
| Pricing information by land parcel. |
| Price data from public telco websites. |
| Income data from Stats NZ (on a meshblock level). |
| MBNZ performance data (24/7 and peak).- Download- Upload- Latency- Outages |
| Retailers service plan and price. |
| Headline speed (cabinet level + each land parcel connected to cabinet). |
| EIR speed (fixed connection based). |
| Expected speed (telcos). |
| CIR (min speed). |
| Outage data (frequency/duration in last 2 years). |
| Standby battery capacity available. |
| Usability data- does it meet consumers need?- can consumers do what they want with their connection? |
| Reliability data - disconnections / outages |
| Technology and location data |
| Usage - (provision of data, provision of voice) |
| Spacial data for where wireless broadband is available |
| Where all cabinets, cell towers etc. are located. |

| Granularity | Source | | | | |
|----------------------|-----------------|--|--|--|--|
| Land parcel | Chorus | | | | |
| Land parcel | Chorus | | | | |
| Land parcel | Chorus | | | | |
| Land parcel | Chorus | | | | |
| Cabinet | Chorus | | | | |
| Aggregate | Chorus | | | | |
| ? | Chorus | | | | |
| Land parcel | Chorus | | | | |
| Land parcel | Chorus | | | | |
| Plan | Public website | | | | |
| Meshblock | Stats NZ | | | | |
| Address | MBNZ | | | | |
| Land parcel | Chorus | | | | |
| Cabinet/Land parcel | Chorus | | | | |
| Land parcel | Chorus | | | | |
| Land parcel | Chorus | | | | |
| Land parcel | Chorus | | | | |
| Cabinet/Land parcel? | Chorus | | | | |
| Cabinet | Chorus | | | | |
| Region | Consumer Survey | | | | |
| Region | Consumer Survey | | | | |
| Address? | Consumer Survey | | | | |
| ? | Chorus | | | | |
| Land parcel | Spark NZ | | | | |
| Land parcel | Spark NZ | | | | |
| Cabinet | Spark NZ | | | | |
| Aggregate | Spark NZ | | | | |
| ? | Spark NZ | | | | |
| Land parcel | Spark NZ | | | | |
| Land parcel | Spark NZ | | | | |
| Plan | Public website | | | | |
| Meshblock | Stats NZ | | | | |
| Address | MBNZ | | | | |
| Land parcel | Spark NZ | | | | |
| Cabinet/Land parcel | Spark NZ | | | | |
| Land parcel | Spark NZ | | | | |
| Land parcel | Spark NZ | | | | |
| Land parcel | Spark NZ | | | | |
| Land parcel | Spark NZ | | | | |
| Cabinet/Land parcel? | Spark NZ | | | | |
| Cabinet | Spark NZ | | | | |
| Region | Consumer Survey | | | | |
| Region | Consumer Survey | | | | |
| Address? | Consumer Survey | | | | |
| ? | Spark NZ | | | | |
| Land parcel | One NZ | | | | |
| Land parcel | One NZ | | | | |

| | | | |
|------|----------|-------------------------------|----------------------|
| 3.3 | One NZ | Wireless Broadband (cellular) | Availabilty/Coverage |
| 3.4 | One NZ | Wireless Broadband (cellular) | Connections |
| 3.5 | One NZ | Wireless Broadband (cellular) | Connections |
| 3.6 | One NZ | Wireless Broadband (cellular) | Price/Affordability |
| 3.7 | One NZ | Wireless Broadband (cellular) | Price/Affordability |
| 3.8 | One NZ | Wireless Broadband (cellular) | Price/Affordability |
| 3.9 | One NZ | Wireless Broadband (cellular) | Price/Affordability |
| 3.10 | One NZ | Wireless Broadband (cellular) | Performance |
| 3.11 | One NZ | Wireless Broadband (cellular) | Performance |
| 3.12 | One NZ | Wireless Broadband (cellular) | Performance |
| 3.13 | One NZ | Wireless Broadband (cellular) | Performance |
| 3.14 | One NZ | Wireless Broadband (cellular) | Performance |
| 3.15 | One NZ | Wireless Broadband (cellular) | Performance |
| 3.16 | One NZ | Wireless Broadband (cellular) | Performance |
| 3.17 | One NZ | Wireless Broadband (cellular) | Performance |
| 3.18 | One NZ | Wireless Broadband (cellular) | Consumer Experience |
| 3.19 | One NZ | Wireless Broadband (cellular) | Consumer Experience |
| 3.20 | One NZ | Wireless Broadband (cellular) | Consumer Experience |
| 3.21 | One NZ | Wireless Broadband (cellular) | Consumer Usage |
| 4.1 | 2degrees | Wireless Broadband (cellular) | Availabilty/Coverage |
| 4.2 | 2degrees | Wireless Broadband (cellular) | Availabilty/Coverage |
| 4.3 | 2degrees | Wireless Broadband (cellular) | Availabilty/Coverage |
| 4.4 | 2degrees | Wireless Broadband (cellular) | Connections |
| 4.5 | 2degrees | Wireless Broadband (cellular) | Connections |
| 4.6 | 2degrees | Wireless Broadband (cellular) | Price/Affordability |
| 4.7 | 2degrees | Wireless Broadband (cellular) | Price/Affordability |
| 4.8 | 2degrees | Wireless Broadband (cellular) | Price/Affordability |
| 4.9 | 2degrees | Wireless Broadband (cellular) | Price/Affordability |
| 4.10 | 2degrees | Wireless Broadband (cellular) | Performance |
| 4.11 | 2degrees | Wireless Broadband (cellular) | Performance |
| 4.12 | 2degrees | Wireless Broadband (cellular) | Performance |
| 4.13 | 2degrees | Wireless Broadband (cellular) | Performance |
| 4.14 | 2degrees | Wireless Broadband (cellular) | Performance |
| 4.15 | 2degrees | Wireless Broadband (cellular) | Performance |
| 4.16 | 2degrees | Wireless Broadband (cellular) | Performance |
| 4.17 | 2degrees | Wireless Broadband (cellular) | Performance |
| 4.18 | 2degrees | Wireless Broadband (cellular) | Consumer Experience |
| 4.19 | 2degrees | Wireless Broadband (cellular) | Consumer Experience |
| 4.20 | 2degrees | Wireless Broadband (cellular) | Consumer Experience |
| 4.21 | 2degrees | Wireless Broadband (cellular) | Consumer Usage |
| 5.1 | RCG | Wireless Broadband (cellular) | Availabilty/Coverage |
| 5.2 | RCG | Wireless Broadband (cellular) | Availabilty/Coverage |
| 5.3 | RCG | Wireless Broadband (cellular) | Availabilty/Coverage |
| 5.4 | RCG | Wireless Broadband (cellular) | Connections |
| 5.5 | RCG | Wireless Broadband (cellular) | Connections |
| 5.6 | RCG | Wireless Broadband (cellular) | Price/Affordability |
| 5.7 | RCG | Wireless Broadband (cellular) | Price/Affordability |

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|--|
| Standby battery capacity available (resilience) |
| Absolute number of connections. |
| Geographical distribution of connections. |
| Plan type by land parcel. |
| Pricing information by land parcel. |
| Price data from public telco websites. |
| Income data from Stats NZ (on a meshblock level). |
| MBNZ performance data (24/7 and peak).- Download- Upload- Latency- Outages |
| Retailers service plan and price. |
| Headline speed (cabinet level + each land parcel connected to cabinet). |
| EIR speed (fixed connection based). |
| Expected speed (telcos). |
| CIR (min speed). |
| Outage data (frequency/duration in last 2 years). |
| Standby battery capacity available. |
| Usability data- does it meet consumers need?- can consumers do what they want with their connection? |
| Reliability data - disconnections / outages |
| Technology and location data |
| Usage - (provision of data, provision of voice) |
| Spacial data for where wireless broadband is available |
| Where all cabinets, cell towers etc. are located. |
| Standby battery capacity available (resilience) |
| Absolute number of connections. |
| Geographical distribution of connections. |
| Plan type by land parcel. |
| Pricing information by land parcel. |
| Price data from public telco websites. |
| Income data from Stats NZ (on a meshblock level). |
| MBNZ performance data (24/7 and peak).- Download- Upload- Latency- Outages |
| Retailers service plan and price. |
| Headline speed (cabinet level + each land parcel connected to cabinet). |
| EIR speed (fixed connection based). |
| Expected speed (telcos). |
| CIR (min speed). |
| Outage data (frequency/duration in last 2 years). |
| Standby battery capacity available. |
| Usability data- does it meet consumers need?- can consumers do what they want with their connection? |
| Reliability data - disconnections / outages |
| Technology and location data |
| Usage - (provision of data, provision of voice) |
| Spacial data for where wireless broadband is available |
| Where all cabinets, cell towers etc. are located. |
| Standby battery capacity available (resilience) |
| Absolute number of connections. |
| Geographical distribution of connections. |
| Plan type by land parcel. |
| Pricing information by land parcel. |

| | | | | | |
|----------------------|-----------------|--|--|--|--|
| Cabinet | One NZ | | | | |
| Aggregate | One NZ | | | | |
| ? | One NZ | | | | |
| Land parcel | One NZ | | | | |
| Land parcel | One NZ | | | | |
| Plan | Public website | | | | |
| Meshblock | Stats NZ | | | | |
| Address | MBNZ | | | | |
| Land parcel | One NZ | | | | |
| Cabinet/Land parcel | One NZ | | | | |
| Land parcel | One NZ | | | | |
| Land parcel | One NZ | | | | |
| Land parcel | One NZ | | | | |
| Cabinet/Land parcel? | One NZ | | | | |
| Cabinet | One NZ | | | | |
| Region | Consumer Survey | | | | |
| Region | Consumer Survey | | | | |
| Address? | Consumer Survey | | | | |
| ? | One NZ | | | | |
| Land parcel | 2degrees | | | | |
| Land parcel | 2degrees | | | | |
| Cabinet | 2degrees | | | | |
| Aggregate | 2degrees | | | | |
| ? | 2degrees | | | | |
| Land parcel | 2degrees | | | | |
| Land parcel | 2degrees | | | | |
| Plan | Public website | | | | |
| Meshblock | Stats NZ | | | | |
| Address | MBNZ | | | | |
| Land parcel | 2degrees | | | | |
| Cabinet/Land parcel | 2degrees | | | | |
| Land parcel | 2degrees | | | | |
| Land parcel | 2degrees | | | | |
| Land parcel | 2degrees | | | | |
| Cabinet/Land parcel? | 2degrees | | | | |
| Cabinet | 2degrees | | | | |
| Region | Consumer Survey | | | | |
| Region | Consumer Survey | | | | |
| Address? | Consumer Survey | | | | |
| ? | 2degrees | | | | |
| Land parcel | RCG | | | | |
| Land parcel | RCG | | | | |
| Cabinet | RCG | | | | |
| Aggregate | RCG | | | | |
| ? | RCG | | | | |
| Land parcel | RCG | | | | |
| Land parcel | RCG | | | | |

| | | | |
|------|----------|-------------------------------|---------------------|
| 5.8 | RCG | Wireless Broadband (cellular) | Price/Affordability |
| 5.9 | RCG | Wireless Broadband (cellular) | Price/Affordability |
| 5.10 | RCG | Wireless Broadband (cellular) | Performance |
| 5.11 | RCG | Wireless Broadband (cellular) | Performance |
| 5.12 | RCG | Wireless Broadband (cellular) | Performance |
| 5.13 | RCG | Wireless Broadband (cellular) | Performance |
| 5.14 | RCG | Wireless Broadband (cellular) | Performance |
| 5.15 | RCG | Wireless Broadband (cellular) | Performance |
| 5.16 | RCG | Wireless Broadband (cellular) | Performance |
| 5.17 | RCG | Wireless Broadband (cellular) | Performance |
| 5.18 | RCG | Wireless Broadband (cellular) | Consumer Experience |
| 5.19 | RCG | Wireless Broadband (cellular) | Consumer Experience |
| 5.20 | RCG | Wireless Broadband (cellular) | Consumer Experience |
| 5.21 | RCG | Wireless Broadband (cellular) | Consumer Usage |
| 6.1 | Starlink | LEO Satellite | Connections |
| 6.2 | Starlink | LEO Satellite | Connections |
| 6.3 | Starlink | LEO Satellite | Connections |
| 6.4 | Starlink | LEO Satellite | Price/Affordability |
| 6.5 | Starlink | LEO Satellite | Price/Affordability |
| 6.6 | Starlink | LEO Satellite | Price/Affordability |
| 6.7 | Starlink | LEO Satellite | Price/Affordability |
| 6.8 | Starlink | LEO Satellite | Performance |
| 6.9 | Starlink | LEO Satellite | Performance |
| 6.10 | Starlink | LEO Satellite | Performance |
| 6.11 | Starlink | LEO Satellite | Performance |
| 6.12 | Starlink | LEO Satellite | Performance |
| 6.13 | Starlink | LEO Satellite | Performance |
| 6.14 | Starlink | LEO Satellite | Performance |
| 6.15 | Starlink | LEO Satellite | Performance |
| 6.16 | Starlink | LEO Satellite | Consumer Experience |
| 6.17 | Starlink | LEO Satellite | Consumer Experience |
| 6.18 | Starlink | LEO Satellite | Consumer Experience |
| 6.19 | Starlink | LEO Satellite | Consumer Usage |
| 7.1 | TBC | GEO Satellite | Connections |
| 7.2 | TBC | GEO Satellite | Connections |
| 7.3 | TBC | GEO Satellite | Connections |
| 7.4 | TBC | GEO Satellite | Price/Affordability |
| 7.5 | TBC | GEO Satellite | Price/Affordability |
| 7.6 | TBC | GEO Satellite | Price/Affordability |
| 7.7 | TBC | GEO Satellite | Price/Affordability |
| 7.8 | TBC | GEO Satellite | Performance |
| 7.9 | TBC | GEO Satellite | Performance |
| 7.10 | TBC | GEO Satellite | Performance |
| 7.11 | TBC | GEO Satellite | Performance |
| 7.12 | TBC | GEO Satellite | Performance |
| 7.13 | TBC | GEO Satellite | Performance |
| 7.14 | TBC | GEO Satellite | Performance |

Price data from public telco websites.

Income data from Stats NZ (on a meshblock level).

MBNZ performance data (24/7 and peak).- Download- Upload- Latency- Outages

Retailers service plan and price.

Headline speed (cabinet level + each land parcel connected to cabinet).

EIR speed (fixed connection based).

Expected speed (telcos).

CIR (min speed).

Outage data (frequency/duration in last 2 years).

Standby battery capacity available.

Usability data- does it meet consumers need?- can consumers do what they want with their connection?

Reliability data - disconnections / outages

Technology and location data

Usage - (provision of data, provision of voice)

Spacial data for where satellite data is available.

Absolute number of connections.

Geographical distribution of connections.

Plan type by land parcel.

Pricing information by land parcel.

Price data from public telco websites.

Income data from Stats NZ (on a meshblock level).

MBNZ performance data (24/7 and peak).- Download- Upload- Latency- Outages

Retailers service plan and price.

Headline speed (cabinet level + each land parcel connected to cabinet).

EIR speed (fixed connection based).

Expected speed (telcos).

CIR (min speed).

Outage data (frequency/duration in last 2 years).

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Retailers service plan and price.

Headline speed (cabinet level + each land parcel connected to cabinet).

EIR speed (fixed connection based).

Expected speed (telcos).

CIR (min speed).

Outage data (frequency/duration in last 2 years).

| | | | | | |
|----------------------|-----------------|--|--|--|--|
| Plan | Public website | | | | |
| Meshblock | Stats NZ | | | | |
| Address | MBNZ | | | | |
| Land parcel | RCG | | | | |
| Cabinet/Land parcel | RCG | | | | |
| Land parcel | RCG | | | | |
| Land parcel | RCG | | | | |
| Land parcel | RCG | | | | |
| Cabinet/Land parcel? | RCG | | | | |
| Cabinet | RCG | | | | |
| Region | Consumer Survey | | | | |
| Region | Consumer Survey | | | | |
| Address? | Consumer Survey | | | | |
| ? | RCG | | | | |
| | Starlink | | | | |
| Aggregate | Starlink | | | | |
| ? | Starlink | | | | |
| Land parcel | Starlink | | | | |
| Land parcel | Starlink | | | | |
| Plan | Public website | | | | |
| Meshblock | Stats NZ | | | | |
| Address | MBNZ | | | | |
| Land parcel | Starlink | | | | |
| Cabinet/Land parcel | Starlink | | | | |
| Land parcel | Starlink | | | | |
| Land parcel | Starlink | | | | |
| Land parcel | Starlink | | | | |
| Cabinet/Land parcel? | Starlink | | | | |
| Cabinet | Starlink | | | | |
| Region | Consumer Survey | | | | |
| Region | Consumer Survey | | | | |
| Address? | Consumer Survey | | | | |
| ? | | | | | |
| | | | | | |
| Aggregate | | | | | |
| ? | | | | | |
| Land parcel | | | | | |
| Land parcel | | | | | |
| Plan | Public website | | | | |
| Meshblock | Stats NZ | | | | |
| Address | MBNZ | | | | |
| Land parcel | | | | | |
| Cabinet/Land parcel | | | | | |
| Land parcel | | | | | |
| Land parcel | | | | | |
| Land parcel | | | | | |
| Cabinet/Land parcel? | | | | | |

| | | | |
|------|----------|---------------------------|-----------------------|
| 7.15 | TBC | GEO Satellite | Performance |
| 7.16 | TBC | GEO Satellite | Consumer Experience |
| 7.17 | TBC | GEO Satellite | Consumer Experience |
| 7.18 | TBC | GEO Satellite | Consumer Experience |
| 7.19 | TBC | GEO Satellite | Consumer Usage |
| 8.1 | WISPs | Wireless Broadband (WISP) | Availability/Coverage |
| 8.2 | WISPs | Wireless Broadband (WISP) | Availability/Coverage |
| 8.5 | WISPs | Wireless Broadband (WISP) | Connections |
| 8.6 | WISPs | Wireless Broadband (WISP) | Connections |
| 8.7 | WISPs | Wireless Broadband (WISP) | Connections |
| 8.8 | WISPs | Wireless Broadband (WISP) | Price/Affordability |
| 8.9 | WISPs | Wireless Broadband (WISP) | Price/Affordability |
| 8.10 | WISPs | Wireless Broadband (WISP) | Price/Affordability |
| 8.11 | WISPs | Wireless Broadband (WISP) | Price/Affordability |
| 8.12 | WISPs | Wireless Broadband (WISP) | Price/Affordability |
| 8.13 | WISPs | Wireless Broadband (WISP) | Performance |
| 8.14 | WISPs | Wireless Broadband (WISP) | Performance |
| 8.15 | WISPs | Wireless Broadband (WISP) | Performance |
| 8.16 | WISPs | Wireless Broadband (WISP) | Performance |
| 8.17 | WISPs | Wireless Broadband (WISP) | Performance |
| 8.18 | WISPs | Wireless Broadband (WISP) | Performance |
| 8.19 | WISPs | Wireless Broadband (WISP) | Performance |
| 8.20 | WISPs | Wireless Broadband (WISP) | Performance |
| 8.21 | WISPs | Wireless Broadband (WISP) | Consumer Experience |
| 8.22 | WISPs | Wireless Broadband (WISP) | Consumer Experience |
| 8.23 | WISPs | Wireless Broadband (WISP) | Consumer Experience |
| 8.24 | WISPs | Wireless Broadband (WISP) | Consumer Usage |
| 1.24 | Chorus | Backhaul | Availability/Coverage |
| 1.25 | Chorus | Backhaul | Connections |
| 1.26 | Chorus | Backhaul | Connections |
| 1.27 | Chorus | Backhaul | Connections |
| 1.28 | Chorus | Backhaul | Price/Affordability |
| 1.29 | Chorus | Backhaul | Performance |
| 2.23 | Spark NZ | Backhaul | Availability/Coverage |
| 2.24 | Spark NZ | Backhaul | Connections |
| 2.25 | Spark NZ | Backhaul | Connections |
| 2.26 | Spark NZ | Backhaul | Connections |
| 2.27 | Spark NZ | Backhaul | Price/Affordability |
| 2.28 | Spark NZ | Backhaul | Performance |
| 3.22 | One NZ | Backhaul | Availability/Coverage |
| 3.23 | One NZ | Backhaul | Connections |
| 3.24 | One NZ | Backhaul | Connections |
| 3.25 | One NZ | Backhaul | Connections |
| 3.26 | One NZ | Backhaul | Price/Affordability |
| 3.27 | One NZ | Backhaul | Performance |
| 9.1 | Vocus | Backhaul | Availability/Coverage |

Standby battery capacity available.

Usability data- does it meet consumers need?- can consumers do what they want with their connection?

Reliability data - disconnections / outages

Technology and location data

Usage - (provision of data, provision of voice)

Spacial data for where wireless broadband is available

Where all cabinets, cell towers etc. are located.

Spacial data for where satellite data is available.

Absolute number of connections.

Geographical distribution of connections.

Plan type by land parcel.

Pricing information by land parcel.

Price data from public telco websites.

Price data from WISPA.

Income data from Stats NZ (on a meshblock level).

MBNZ performance data (24/7 and peak).- Download- Upload- Latency- Outages

Retailers service plan and price.

Headline speed (cabinet level + each land parcel connected to cabinet).

EIR speed (fixed connection based).

Expected speed (telcos).

CIR (min speed).

Outage data (frequency/duration in last 2 years).

Standby battery capacity available.

Usability data- does it meet consumers need?- can consumers do what they want with their connection?

Reliability data - disconnections / outages

Technology and location data

Usage - (provision of data, provision of voice)

Connections by cabinet (ie specific cabinet area)

Cell site

WISP Tower

Highly variable - Backhaul Study

Backhaul capacity connected

Connections by cabinet (ie specific cabinet area)

Cell site

WISP Tower

Highly variable - Backhaul Study

Backhaul capacity connected

Connections by cabinet (ie specific cabinet area)

Cell site

WISP Tower

Highly variable - Backhaul Study

Backhaul capacity connected

| | | | | | |
|----------------------|-----------------|--|--|--|--|
| Cabinet | | | | | |
| Region | Consumer Survey | | | | |
| Region | Consumer Survey | | | | |
| Address? | Consumer Survey | | | | |
| ? | | | | | |
| Land parcel | WISP | | | | |
| Land parcel | WISP | | | | |
| | WISP | | | | |
| Aggregate | WISP | | | | |
| ? | WISP | | | | |
| Land parcel | WISP | | | | |
| Land parcel | WISP | | | | |
| Plan | Public website | | | | |
| Plan | WISPA website | | | | |
| Meshblock | Stats NZ | | | | |
| Address | MBNZ | | | | |
| Land parcel | WISP | | | | |
| Cabinet/Land parcel | WISP | | | | |
| Land parcel | WISP | | | | |
| Land parcel | WISP | | | | |
| Land parcel | WISP | | | | |
| Cabinet/Land parcel? | WISP | | | | |
| Cabinet | WISP | | | | |
| Region | Consumer Survey | | | | |
| Region | Consumer Survey | | | | |
| Address? | Consumer Survey | | | | |
| ? | WISP | | | | |
| Node | Chorus | | | | |
| Cabinet | Chorus | | | | |
| Cell site | Chorus | | | | |
| WISP Tower | Chorus | | | | |
| | Chorus | | | | |
| Node | Chorus | | | | |
| Node | Spark NZ | | | | |
| Cabinet | Spark NZ | | | | |
| Cell site | Spark NZ | | | | |
| WISP Tower | Spark NZ | | | | |
| | Spark NZ | | | | |
| Node | Spark NZ | | | | |
| Node | One NZ | | | | |
| Cabinet | One NZ | | | | |
| Cell site | One NZ | | | | |
| WISP Tower | One NZ | | | | |
| | One NZ | | | | |
| Node | One NZ | | | | |
| Node | Vocus | | | | |

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| | | | |
|------|------------|----------|----------------------|
| 9.2 | Vocus | Backhaul | Connections |
| 9.3 | Vocus | Backhaul | Connections |
| 9.4 | Vocus | Backhaul | Connections |
| 9.5 | Vocus | Backhaul | Price/Affordability |
| 9.6 | Vocus | Backhaul | Performance |
| 10.1 | Kordia | Backhaul | Availabilty/Coverage |
| 10.2 | Kordia | Backhaul | Connections |
| 10.3 | Kordia | Backhaul | Connections |
| 10.4 | Kordia | Backhaul | Connections |
| 10.5 | Kordia | Backhaul | Price/Affordability |
| 10.6 | Kordia | Backhaul | Performance |
| 11.1 | Northpower | Backhaul | Availabilty/Coverage |
| 11.2 | Northpower | Backhaul | Connections |
| 11.3 | Northpower | Backhaul | Connections |
| 11.4 | Northpower | Backhaul | Connections |
| 11.5 | Northpower | Backhaul | Price/Affordability |
| 11.6 | Northpower | Backhaul | Performance |
| 12.1 | Enable | Backhaul | Availabilty/Coverage |
| 12.2 | Enable | Backhaul | Connections |
| 12.3 | Enable | Backhaul | Connections |
| 12.4 | Enable | Backhaul | Connections |
| 12.5 | Enable | Backhaul | Price/Affordability |
| 12.6 | Enable | Backhaul | Performance |
| 13.1 | Tuatahi | Backhaul | Availabilty/Coverage |
| 13.2 | Tuatahi | Backhaul | Connections |
| 13.3 | Tuatahi | Backhaul | Connections |
| 13.4 | Tuatahi | Backhaul | Connections |
| 13.5 | Tuatahi | Backhaul | Price/Affordability |
| 13.6 | Tuatahi | Backhaul | Performance |

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Connections by cabinet (ie specific cabinet area)

Cell site

WISP Tower

Highly variable - Backhaul Study

Backhaul capacity connected

Connections by cabinet (ie specific cabinet area)

Cell site

WISP Tower

Highly variable - Backhaul Study

Backhaul capacity connected

Connections by cabinet (ie specific cabinet area)

Cell site

WISP Tower

Highly variable - Backhaul Study

Backhaul capacity connected

Connections by cabinet (ie specific cabinet area)

Cell site

WISP Tower

Highly variable - Backhaul Study

Backhaul capacity connected

Connections by cabinet (ie specific cabinet area)

Cell site

WISP Tower

Highly variable - Backhaul Study

Backhaul capacity connected

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| | | | | | |
|------------|------------|--|--|--|--|
| Cabinet | Vocus | | | | |
| Cell site | Vocus | | | | |
| WISP Tower | Vocus | | | | |
| | Vocus | | | | |
| Node | Vocus | | | | |
| Node | Kordia | | | | |
| Cabinet | Kordia | | | | |
| Cell site | Kordia | | | | |
| WISP Tower | Kordia | | | | |
| | Kordia | | | | |
| Node | Kordia | | | | |
| Node | Northpower | | | | |
| Cabinet | Northpower | | | | |
| Cell site | Northpower | | | | |
| WISP Tower | Northpower | | | | |
| | Northpower | | | | |
| Node | Northpower | | | | |
| Node | Enable | | | | |
| Cabinet | Enable | | | | |
| Cell site | Enable | | | | |
| WISP Tower | Enable | | | | |
| | Enable | | | | |
| Node | Enable | | | | |
| Node | Tuatahi | | | | |
| Cabinet | Tuatahi | | | | |
| Cell site | Tuatahi | | | | |
| WISP Tower | Tuatahi | | | | |
| | Tuatahi | | | | |
| Node | Tuatahi | | | | |
| | | | | | |

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| Field |
|--|
| End-user location |
| Coverage of available plans |
| Plan connected |
| Voice/Broadband |
| Residential/Business |
| Bundle |
| Antenna installed (FWA only) |
| TSO/Non-TSO (Chorus only) |
| Traffic |
| Voice |
| Number of faults |
| Duration of faults |
| Cell site location |
| Coverage (3G/4G/5G) – mobile |
| Coverage (3G/4G/5G) – FWA with antenna |
| Capacity of backhaul (cell site) |
| Technology of backhaul (cell site) |
| Hours of battery backup installed |
| Satellite coverage |
| Backhaul technology |
| Backhaul capacity |
| Standby battery capacity installed |
| Fixed network cabinet name |
| Technologies available |
| Wholesale plans offered |
| Regulated service L1/L2? |
| Headline speed |
| EIR |
| CIR |
| Number of cabinet faults |
| Duration of cabinet faults |
| Number of cell site faults |
| Duration of cabinet faults |

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| Description (Data Dictionary) |
|--|
| Location of end-user as per 'location information' |
| Coverage map of each available retail plan |
| The plan(s) currently connected at that location |
| Voice only, voice and broadband bundle, naked broadband |
| Business or residential customer |
| If the current plan has been sold as a bundle, and what type of bundle the plan is sold with e.g. electricity, Netflix |
| Whether an external antenna has been installed for FWA (Yes/No) |
| Monthly data (GB) used by end-user (if providing monthly data) or average monthly data use over the last 12 months by end |
| Monthly voice minutes used by end-user (if providing monthly data) or average monthly data use over the last 12 months by |
| Total number of reported faults for the last two years |
| Total duration in minutes of reported service outages due to faults for the last two years |
| Location as per 'location information' |
| Aligned with CIP methodology (Polygons – Vector format) |
| Aligned with CIP methodology (Polygons – Vector format) |
| Gbps |
| Fibre, DMR etc |
| Total time site expected to keep working if power goes down |
| Polygons – Vector format |
| For each ground station |
| Capacity available to each ground station |
| Total time site expected to keep working if power goes down |
| Only for active cabinets - leave blank if none |
| eg fibre, VDSL, ADSL, Broadband IP |
| eg fibre 100, hyperfibre, UBA etc |
| Regulated services are anchor service (L2), DFAS and PONFAS (L1), UCLL (L1) and UBA (L2) |
| Sync speed for copper, PIR for fibre services |
| Excess information rate |
| Committed Information Rate |
| Total number of reported faults in the last 2 years that were not reported against individual end-users (eg backhaul faults, e |
| Duration of reported faults in the last 2 years that were not reported against individual end-users (eg backhaul faults, equip |
| Total number of reported faults in the last 2 years that were not reported against individual end-users (eg backhaul faults, e |
| Duration of reported faults in the last 2 years that were not reported against individual end-users (eg backhaul faults, equip |

| Data Format Req'd | Priority | Reason |
|-------------------|----------|---|
| | 1 | Key to reporting on location-based data |
| | 1 | Copper review and AMR |
| | 1 | Copper review and AMR |
| | 2 | Advice and possibly AMR |
| | 2 | AMR |
| | 2 | AMR |
| | 2 | Advice and AMR |
| | 1 | Copper review, AMR and advice |
| l-user | 1 | AMR |
| y end-user. | 2 | AMR |
| | 2 | AMR |
| | 2 | AMR |
| | 1 | Copper review, AMR, advice |
| | 1 | AMR, advice |
| | 1 | Copper review, AMR, advice |
| | 3 | AMR, advice |
| | 3 | AMR, advice |
| | 3 | AMR, advice |
| | 1 | Copper review, AMR |
| | 3 | Advice |
| | 3 | Copper review, AMR, advice |
| | 3 | Advice, AMR |
| | 1 | Copper review, AMR, advice |
| | 1 | Copper review |
| | 1 | Copper review |
| | 1 | Copper review |
| | 2 | AMR, advice |
| | 2 | AMR, advice |
| | 2 | AMR, advice |
| quipment faults) | 2 | AMR, advice |
| ment faults) | 2 | AMR, advice |
| quipment faults) | 2 | AMR, advice |
| ment faults) | 2 | AMR, advice |

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| Use |
|---|
| All |
| Knowing where copper plans are connected will be key to analysis for the review |
| TSO is a voice-only obligation currently |
| Separate bus and res reporting |
| Commentary on the trends in the way telco services are sold |
| For comparing coverage maps with EU site performance |
| If we manage to connect copper and TSO reviews with MBIE |
| Reporting on traffic, comparisons between technologies |
| Reporting on voice traffic trends |
| Comparison of technologies and fault rates |
| Comparison of technologies and fault rates |
| Part of coverage analysis |
| Mobile coverage commentary |
| Part of coverage analysis |
| Mobile coverage commentary |
| Mobile coverage commentary |
| Resilience summaries |
| Part of coverage analysis |
| Resilience summaries |
| Coverage analysis |
| Resilience summaries |
| Coverage analysis and resilience summaries |
| Coverage analysis |
| Coverage analysis |
| Coverage analysis |
| Speed analysis |
| Speed analysis |
| Speed analysis |
| Resilience and downtime analysis |
| Resilience and downtime analysis |
| Resilience and downtime analysis |
| Resilience and downtime analysis |

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Competition analysis, where connections are, what they are connected to, allows us to use location data to compare with other
Close economic substitutes. What options consumers have. Coverage is the first step of the analysis. Stop-sells vs coverage.
Services that end-users have that are not available

Inform advice on the TSO review. Spark do not know where the TSO boundary is. Chorus now have some information.
Comparison between copper and fixed wireless - Competition analysis. Are they substitutes? Urban Fibre vs other technologies

Feeds into other metrics we are capturing. Backhaul, resilience. Co-location of fixed wireless. Where multiple MNOs same site
Close economic substitutes. What options consumers have. Coverage is the first step of the analysis. Stop-sells vs coverage.
Close economic substitutes. What options consumers have. Coverage is the first step of the analysis. Stop-sells vs coverage.

Close economic substitutes. What options consumers have. Coverage is the first step of the analysis. Stop-sells vs coverage.

Feeds into other metrics we are capturing. Backhaul, resilience. Co-location of fixed wireless. Where multiple MNOs same site
Close economic substitutes. What options consumers have. Coverage is the first step of the analysis. Stop-sells vs coverage.
Close economic substitutes. What options consumers have. Coverage is the first step of the analysis. Stop-sells vs coverage.
Help us with the copper review analysis. We know what regulated services are actually there.

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| Granularity |
|--|
| her data collected. Comparison to income data. Who is paying for what and the price they are paying. What is available |
| Will need a list of sites with stop sells. Indication of when this will change (planned date) and reason. |
| At address level |
| At address level |
| Address point |
| By Address |
| Address point |
| Address point |
| What is available - Land parcel |
| te. |
| Don't consider a service available where there is a stop sell. |
| Test at the workshop |
| |
| |
| |
| Don't consider a service available where there is a stop sell. |
| |
| |
| te. |
| Don't consider a service available where there is a stop sell. |
| Don't consider a service available where there is a stop sell. |
| |
| Address point |
| Address point |
| Address point |
| |
| |
| |

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| Comment |
|---|
| lable. Close economic substitutes. Ehat else is available. Plans and featur, data caps, key features. Are the alterna |
| |
| |
| |
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| |
| |
| |
| |
| |
| |
| |
| Either option - needs to be full month if only joined in June. Average for last three months |
| |
| |
| |
| Does the tower have a stop-sell? |
| Does the tower have a stop-sell? Question for the workshop - how do we do this? Remaining capacity |
| |
| |
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RSP Plans offered

Description (Data Dictionary)

- List of plans available
- Prices of plans available ex-GST and not including variable components (usage or additional discretionary equipment charge)
E.g. Fibre, HFC, ADSL, VDSL, 4G Fixed Wireless, 5G Fixed Wireless, Satellite, CMAR
- Initial fees paid an end-user when they entered into the plan (\$NZD, ex GST) e.g. Installation costs
- Term of plan offered
- Advertised download speed of the broadband plan (Mbps)
- Monthly data allowance (GB)

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Close economic substitutes. What options consumers have. Coverage is the first step of the analysis. Stop-sells vs coverage.

Close economic substitutes. What options consumers have. Coverage is the first step of the analysis. Stop-sells vs coverage.

Price or average (POA)

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| ID | Term | Definition / Data Parameters |
|-----|--|---|
| D01 | Network coverage | Whether an end-user has the ability to connect to the relevant network. Cellular networks will have separate coverage information for mobile (ie handheld) and fixed (house antenna) coverage. |
| D02 | Retail coverage | Whether an end-user has the ability to purchase retail services on an available network. |
| D03 | Connections | Number of working connections to a voice or broadband (voice and broadband connections to the same land parcel count as one connection). |
| D04 | Price | The retail price of the connected service. Will include the connection fee payable for the service (one-off) and the ongoing rental (monthly). |
| D05 | Affordability | We will collect data on service connected and its price and household income. Household income will be sourced from the Department of Statistics and will likely be at a meshblock level, so each household in the block will be assigned the average meshblock. Users of the data will then be able to calculate affordability based on their own criteria. |
| D06 | Performance | Service performance can be impacted by different components of the broadband network, starting with the devices in the home and ending with the world wide web. The main factors that affect the performance of the connections are: a.Headline download speed (EIR); b.Headline upload speed (EIR) c.Minimum download speed under congested conditions (CIR); and d.Latency e.Outage profile (frequency/duration of outages in last 24 months). |
| D07 | Consumer experience (satisfaction/quality) | The overall user experience of consumers broadband connection. Consumer satisfaction with the service they are getting from their broadband/mobile provider. Typically measured by surveys e.g. Overall satisfaction with their service, quality of their service, number of problems with the service they have experienced over the past two years. |
| D08 | Consumer usage | The amount of data that a consumer uses over a defined period of time (Usually per month). |
| D09 | Granularity of data | All data will be based on a 'per premises' view. Data that is collected on a per cabinet or per cell site basis will be able to be attributed to the individual premises in their coverage area. |
| D10 | Currency of data | We will specify the date which we will require data to be 'as at'. This will not always be possible. |
| D11 | Resilience | |

Comments

Note: coverage is relevant whether a customer is connected or not.

Agree definition of resilience (David Quaid - lifted from acts / rule book
Investigate what other agencies are capturing in this space now, that we may draw on
Incorporate findings from the resilience project
David Quaid - ensure two projects are aligned philosophically

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| | | |
|-----|------------|--|
| D12 | Investment | |
| D13 | | |

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Hard to get data on, what do we want to report on, what do we want to know - have to ask the questions in the right way.

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| ID |
|-----|
| A01 |
| A02 |
| A03 |
| A04 |

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Assumption

All data that comcom is currently in possession is not required for this study as is either out of date or not at the required level of granularity. It used to 'sanity check' the data collected as part of the study, but will not be used explicitly for this study. Therefore, no permission is required to be sought to use the data.

Data that we have received AND is publicly available is OK to use for this study, without seeking explicit permission from the source.

List of providers we will seek data from = AMR list + additional RSPs from FedFarmers survey - any RSP with less than 1% market share. TO BE VALIDATED.

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| | | | | |
|--|--|---|--|--|
|  <p>UFONE</p> |  <p>Vital Vital NZ</p> |  <p>vGRID Layerx Cloud Limited</p> | | |
| <p>Velocitynet Ltd</p> | <p>Morepark Online Ltd A Kaitiaki-based internet service provider supported by our team of night owls.</p> |  <p>Inspire Net Ltd</p> | | |
| <p>WombatNET</p> |  <p>Accelerate Wireless Ltd A locally owned and operated wireless ISP in sunny Marlborough.</p> |  <p>Kordia Ltd</p> | | |
|  <p>Voyager Internet Ltd</p> |  <p>Xtreme Networks Xtreme Networks is a Wellington owned and operated ISP and Data Centre.</p> |  <p>Compass Communications Ltd</p> | | |
|  <p>RexNetworks Limited</p> |  <p>Primo Wireless</p> |  <p>AeNet Financed Solutions Ltd</p> | | |
|  <p>martinborough.net.nz xDSL, Fibre and Rural Wireless Service Provider.</p> |  <p>WheroNet Ltd Rural wireless internet to South Auckland and North Waikato.</p> |  <p>BRYTE Internet Solutions MediaTribes Limited</p> | | |
|  <p>WIZwireless Ltd</p> |  <p>TrustPower</p> | <p>InternetNZ</p> | | |
| <p>Prodigi Technology Services Ltd</p> |  <p>Ezykonekt Rural Broadband</p> |  <p>DTS Ltd</p> | | |
|  <p>New Zealand Technology Group</p> | <p>The Connectivity Group (TCG)</p> |  <p>Gravity internet Ltd</p> | | |

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| anna Internet | | | | | | | | | |
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| Party | Draft Sent | box.com sent | Final Sent | Received | Via | Date received |
|---|------------|--------------|------------|----------|-----|---------------|
| 2degrees | 20-Jun | 29-Jun | | No | | |
| Chorus | 20-Jun | 29-Jun | | No | | |
| Compass (ISPANZ) | 20-Jun | | | No | | |
| Contact Energy | | | | No | | |
| Enable | 22-Jun | 29-Jun | | No | | |
| Gravity (ISPANZ) | 20-Jun | | | No | | |
| Inspire Net (ISPANZ) | 20-Jun | | | No | | |
| Kordia (ISPANZ) | 20-Jun | | | No | | |
| Lightwire (WISP) | 20-Jun | | | No | | |
| MyRepublic | | | | No | | |
| Northpower | 22-Jun | 29-Jun | | No | | |
| Nova Energy | | | | No | | |
| NowNZ | | | | No | | |
| Sky Broadband | | | | No | | |
| Spark | 20-Jun | 29-Jun | | No | | |
| Starlink | 20-Jun | 29-Jun | | No | | |
| Trustpower (ISPANZ) | 20-Jun | | | No | | |
| Tuatahi First Fibre | 22-Jun | 29-Jun | | No | | |
| Vector | 28-Jun | | | No | | |
| Vital (ISPANZ) | 20-Jun | | | No | | |
| Vocus (2 Degrees) | 20-Jun | | | No | | |
| One NZ | 20-Jun | 29-Jun | | No | | |
| Voyager (ISPANZ) | 20-Jun | | | No | | |
| Warehouse | | | | No | | |
| Wireless Nation (WISPA) | 20-Jun | | | No | | |
| WOi | | | | No | | |
| WISPA | 20-Jun | 29-Jun | | | | |
| ISPANZ | 20-Jun | 29-Jun | | | | |
| Unifone | 20-Jun | | | | | |
| Ultimate Broadband | 20-Jun | | | | | |
| Stratanet | 20-Jun | | | | | |
| Go Wifi - sells products, not services? | 20-Jun | | | | | |
| WizWireless | 20-Jun | | | | | |
| Telco2 (out of scope?) | 20-Jun | | | | | |
| Yrless | 20-Jun | | | | | |
| Waimawharf (in scope?) | 20-Jun | | | | | |
| Uber Group | 20-Jun | | | | | |
| Primo | 20-Jun | | | | | |
| KiwiWifi | 20-Jun | | | | | |
| Ashley Communications | 20-Jun | | | | | |
| BP Computers (in scope?) | 20-Jun | | | | | |
| Rex Networks | 20-Jun | | | | | |
| Blast Internet NZ | 20-Jun | | | | | |
| Purelink | 20-Jun | | | | | |
| Wireless Dynamics | 20-Jun | | | | | |
| Mercury | 28-Jun | 29-Jun | | | | |

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