

National Broadband Map

About NZRS

- Wholly owned subsidiary of InternetNZ:
“to promote the Internet’s benefits and uses, and protect its potential.”



Jay



Jordan



Debbie

NZRS services

- .nz registry (not at 650,000 domains)
- national NTP network
 - *ntp.net.nz*
- test RPKI validator
 - *validator.rpki.net.nz*
- IP topology map
 - *ip.topology.net.nz*
- BGP topology map
 - *bgp.topology.net.nz*
- National Broadband Map
 - *broadbandmap.nz*

Type address or drop pin



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NZRS

an
InternetNZ
company

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Type address or drop pin

Search by
address

Search by
dropping a pin

Switch to
aerial view

Browse

- ☒ Fibre
- ☐ - planned
- ☐ Cable
- ☐ VDSL
- ☐ ADSL
- ☐ Wireless

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80 Boulcott Street, Wellington Central, Wellington 6011



Availability Report

80 Boulcott Street, Wellington Central, Wellington 6011

Fibre is Available



Data from
Chorus

Speeds

 50-1000 Mbps  10-1000 Mbps

Next steps

Contact a retailer of the [Chorus](#) network, who will check to confirm availability and determine the actual speeds that you are likely to get.

Cable is Not Available



VDSL is Not Available

ADSL is Available



Data from
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Speeds

 10-21 Mbps  1-1.4 Mbps

Next steps

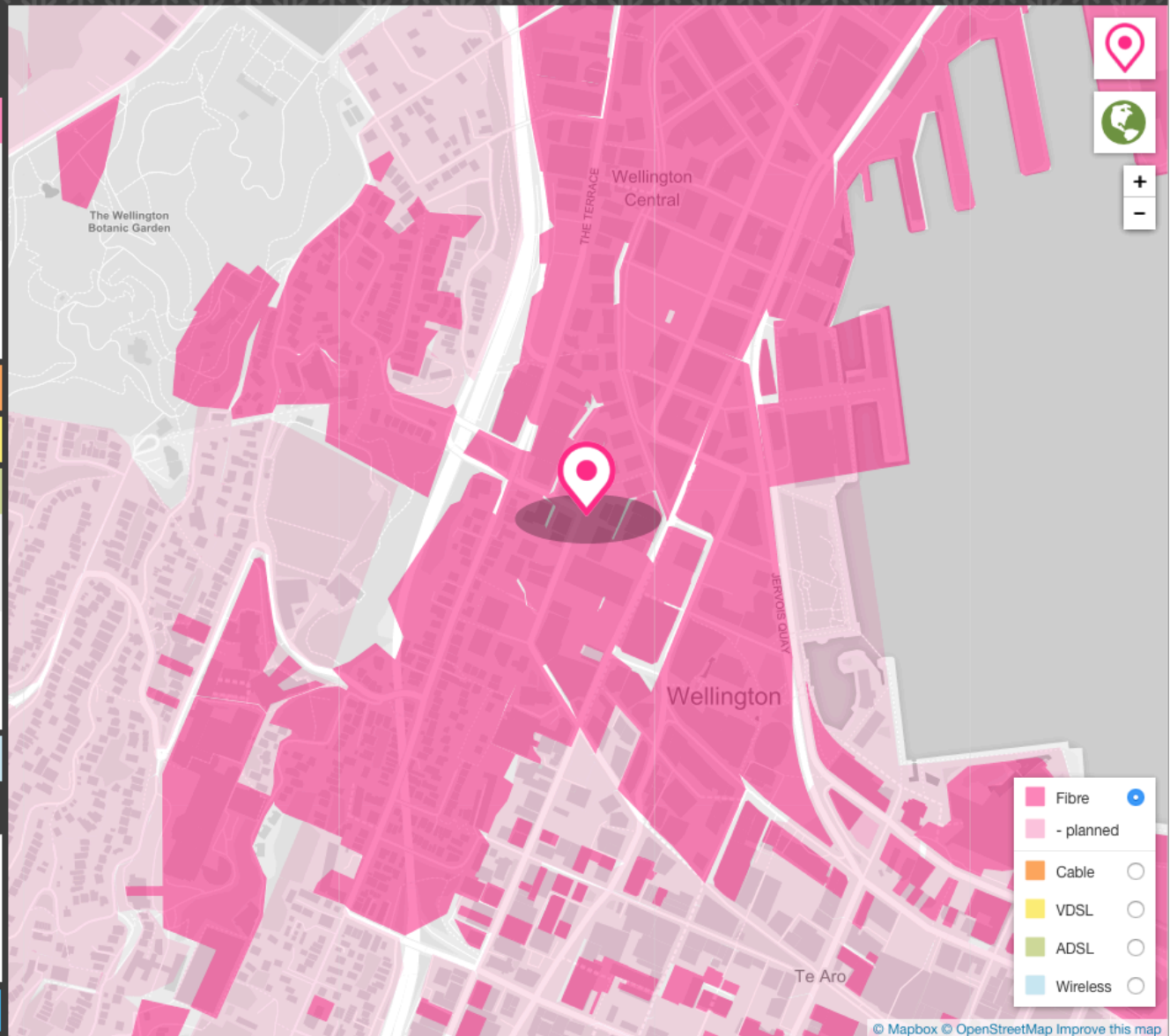
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Wireless is Not Available

Feedback Form

Help us improve this site by giving feedback here...

[Send feedback](#)



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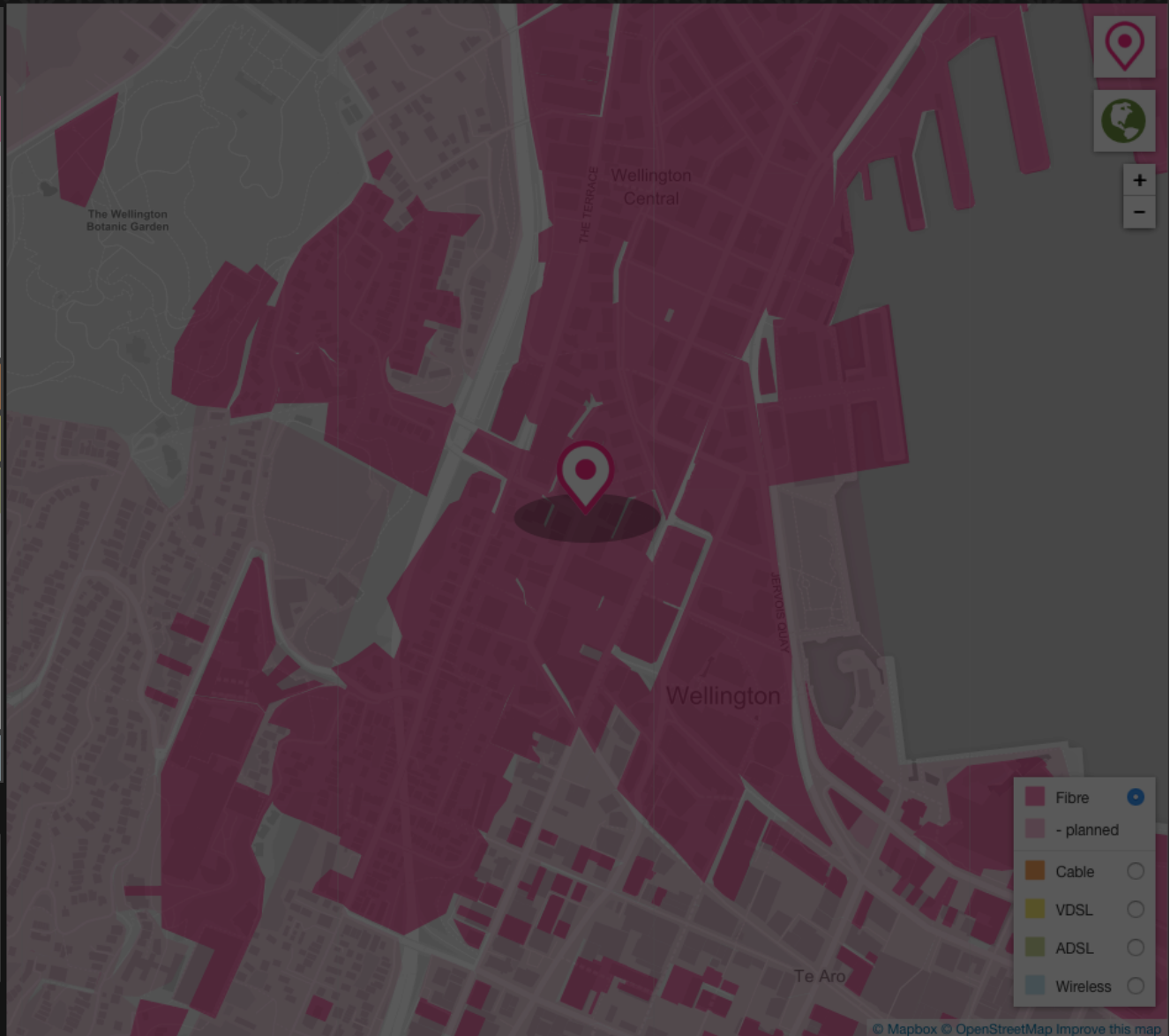
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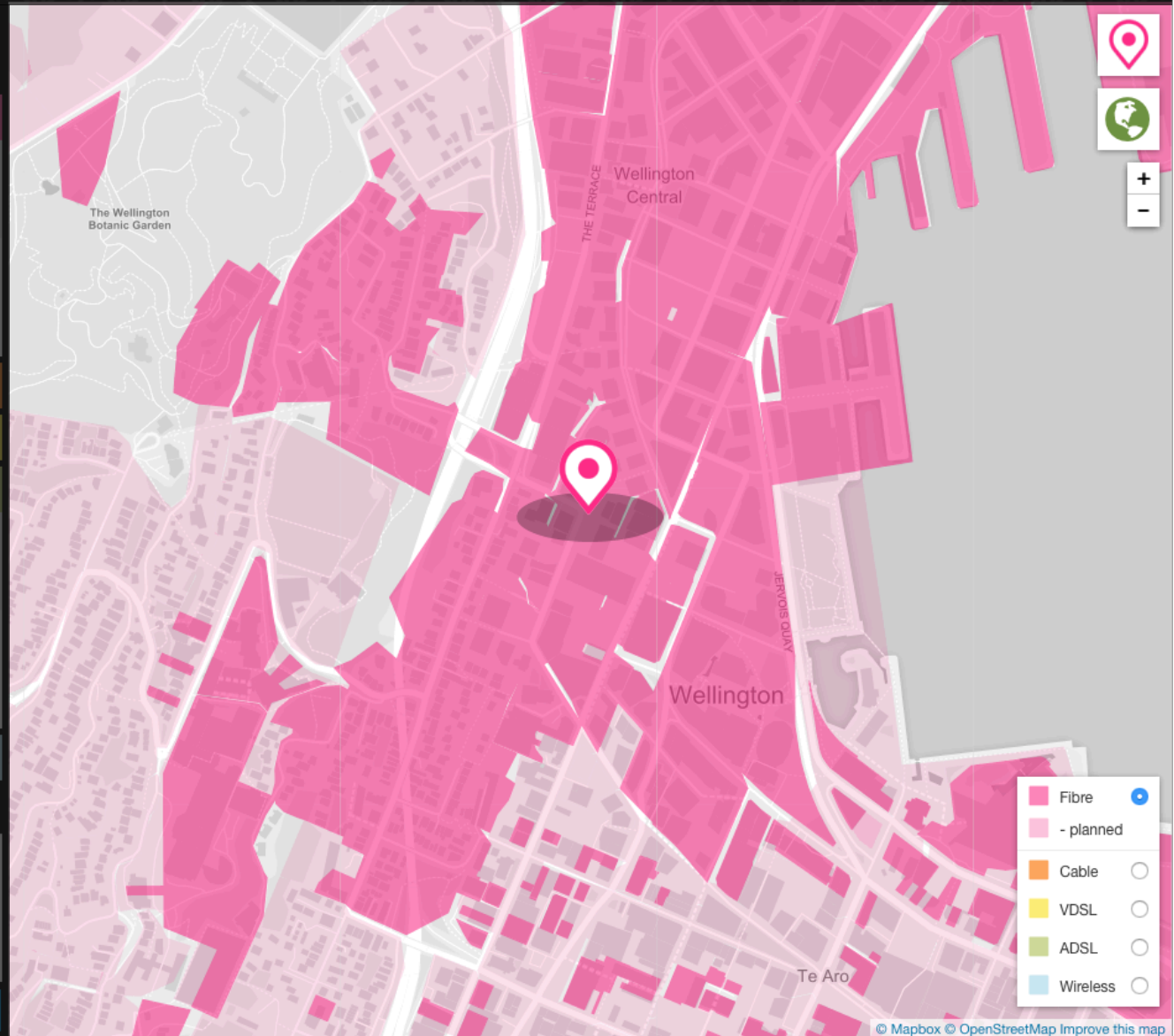
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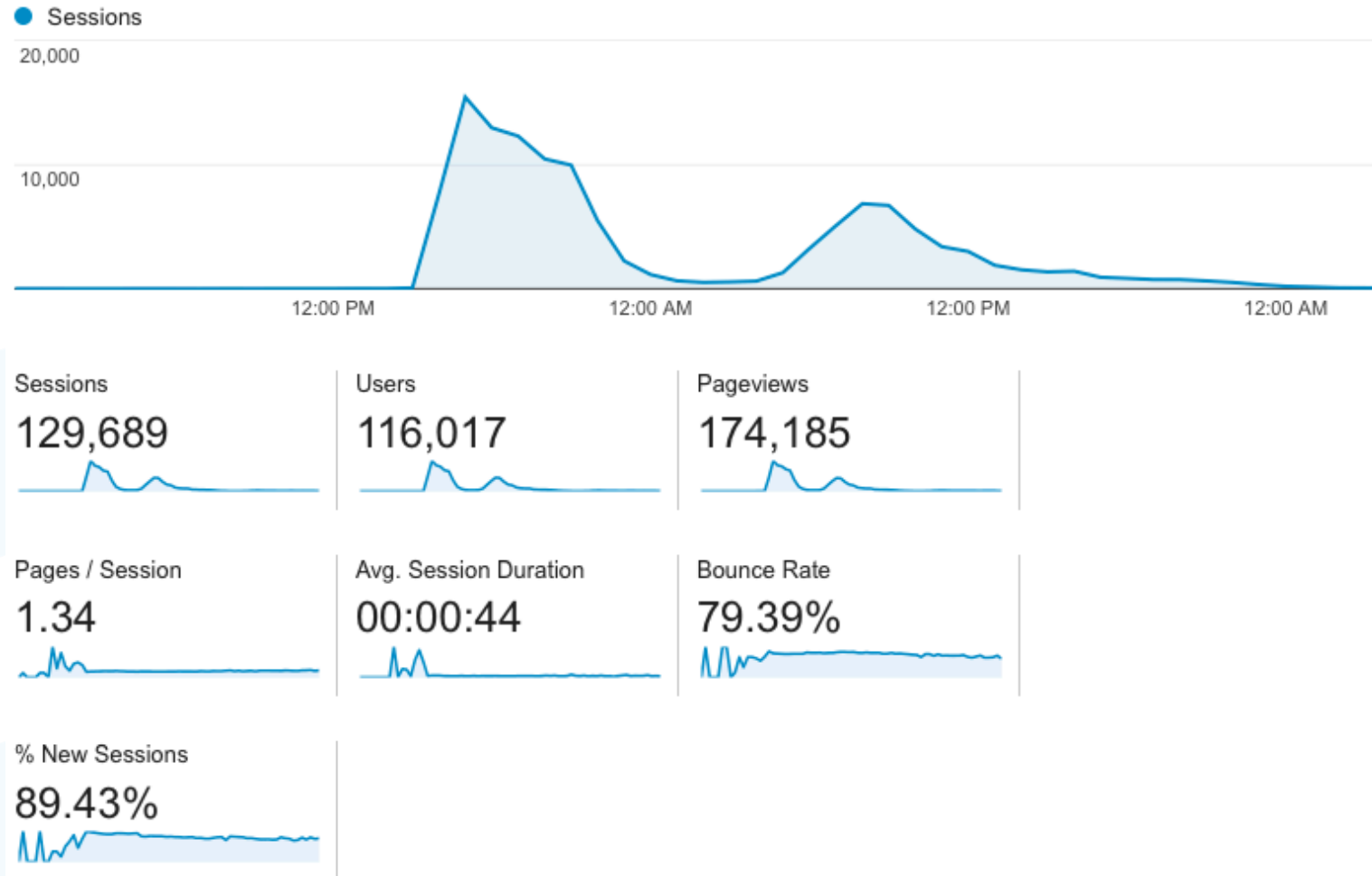
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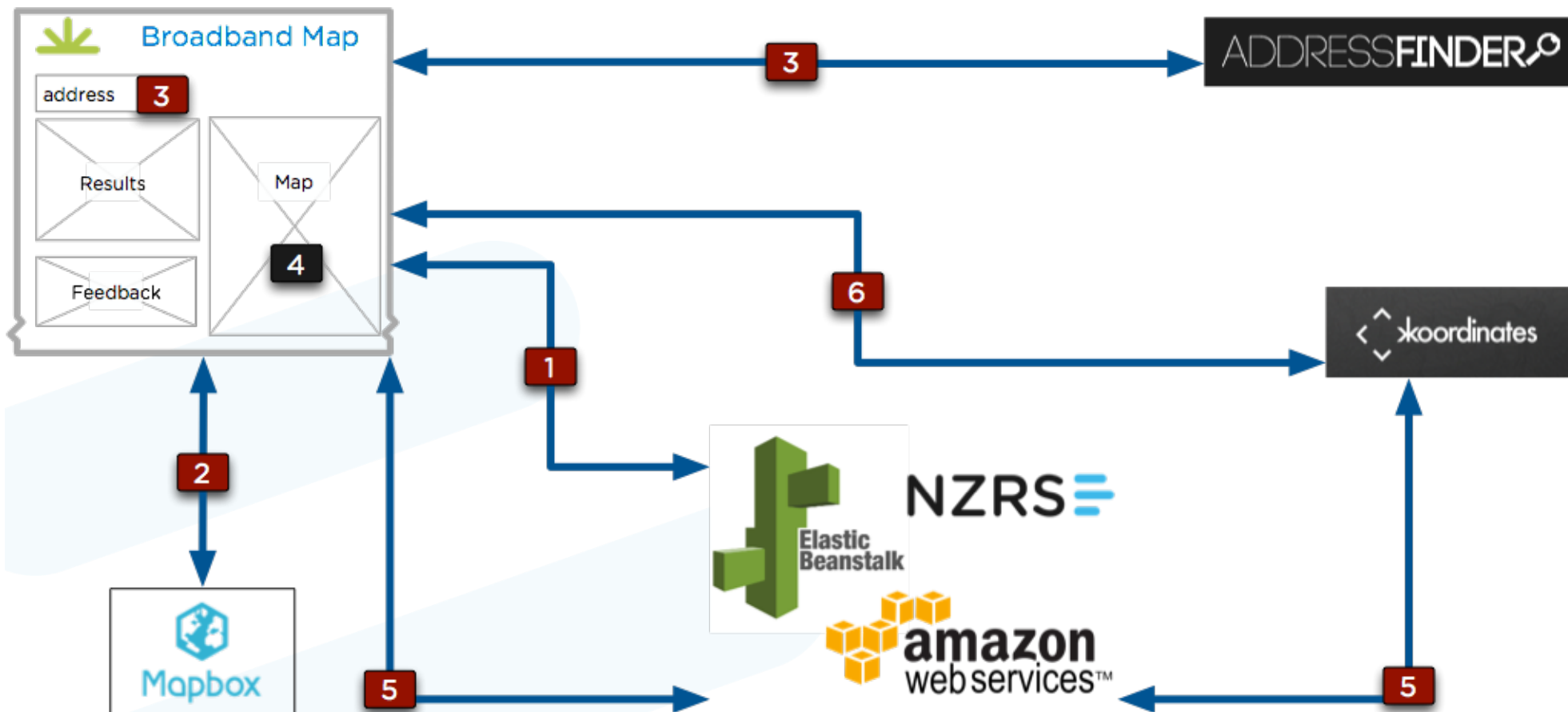
Successful launch



- Launched July 23 2015 by the Minister of Communications
- Major news sites embedded it on their front pages



National Broadband Map - Basic Architecture



- 1 Static page and Javascript served from Amazon Elastic Beanstalk
- 2 Base map tiles served by Mapbox (soon to be LINZ)
- 3 User inputs an address and AddressFinder called to get XY coordinate; or
- 4 User drops a pin and XY determined by that

- 5 Query to NZRS API which queries Koordinates to find available networks at that coordinate, supplementary data augmented to the Koordinates response and returned
- 6 Network coverage tiles requested and served by Koordinates to update the map

Why NZRS?

- Public Benefit Entity – Charity
- Core InternetNZ objects
 - *2.1 To promote the competitive provision of Internet access, services and facilities in an open and uncaptureable environment.*
 - *2.9 To promote widely and generally available access to the Internet.*
- Trusted – data is precious
- Neutral – represent data honestly
- Resourced – can do a good job

History

- Broadband Map
 - Third incarnation
 - One incarnation similar to this
 - Another more of an infrastructure map
- NZRS involvement
 - Initially to share info on fixed wireless
 - Jamie Horrell employed on this
 - Gap spotted
 - Agreement with MBIE
 - Entirely new tool developed

The data

- Over 20 providers
 - Some very sensitive about their data
 - Awkward formats
 - High cost for them to provide
- Our approach
 - Ask nicely – no payment
 - Demonstrate security – gain trust
 - Sell the vision
 - Be patient
 - Help with tools
 - Built a tool to generate wireless coverage
 - Adopted another tool to convert files to right format

Limitations on the data

- Mix of licensing / usage – still not clear picture
- Only be used for this purpose:
 - *Provide info to owner/occupier or prospective owner/occupier on availability*
- Missing providers
 - No Spark fixed wireless (coming soon)
 - Velocity.net
 - Others for sure
- Missing technologies
 - No satellite (is it broadband?)
 - No other forms of WiFi
 - No cellular

Using the site

- Embedding full site
 - Designed for this
 - Fully responsive
- New widget
 - Small embeddable widget
 - Restrict search by technology or provider
- API
 - Commercially supplied (cost recovery)
 - Same restrictions on use
 - Works on XY location
 - Used by switching sites and property info sites

Future plans

- More regular updates
- Comprehensive coverage
 - One stop shop for all access technology
 - But clear on customer expectations!
- Data back to providers
 - Data on usage, queries made, etc
 - Better survey of users
- Fibre that can be “cut into”
 - Priority for MBIE and Minister
 - Complex to represent
 - More than one way of “cutting in”

Value to ISPs

- Access network builders
 - Info on your network widely shared
 - Attract RSPs
 - Customer acquisition
- RSPs with no access network
 - Discover new networks to resell
 - Better info to give customers

Thanks

Contact: [Jay Daley – jay@nzrs.net.nz](mailto:jay@nzrs.net.nz)
www.nzrs.net.nz