

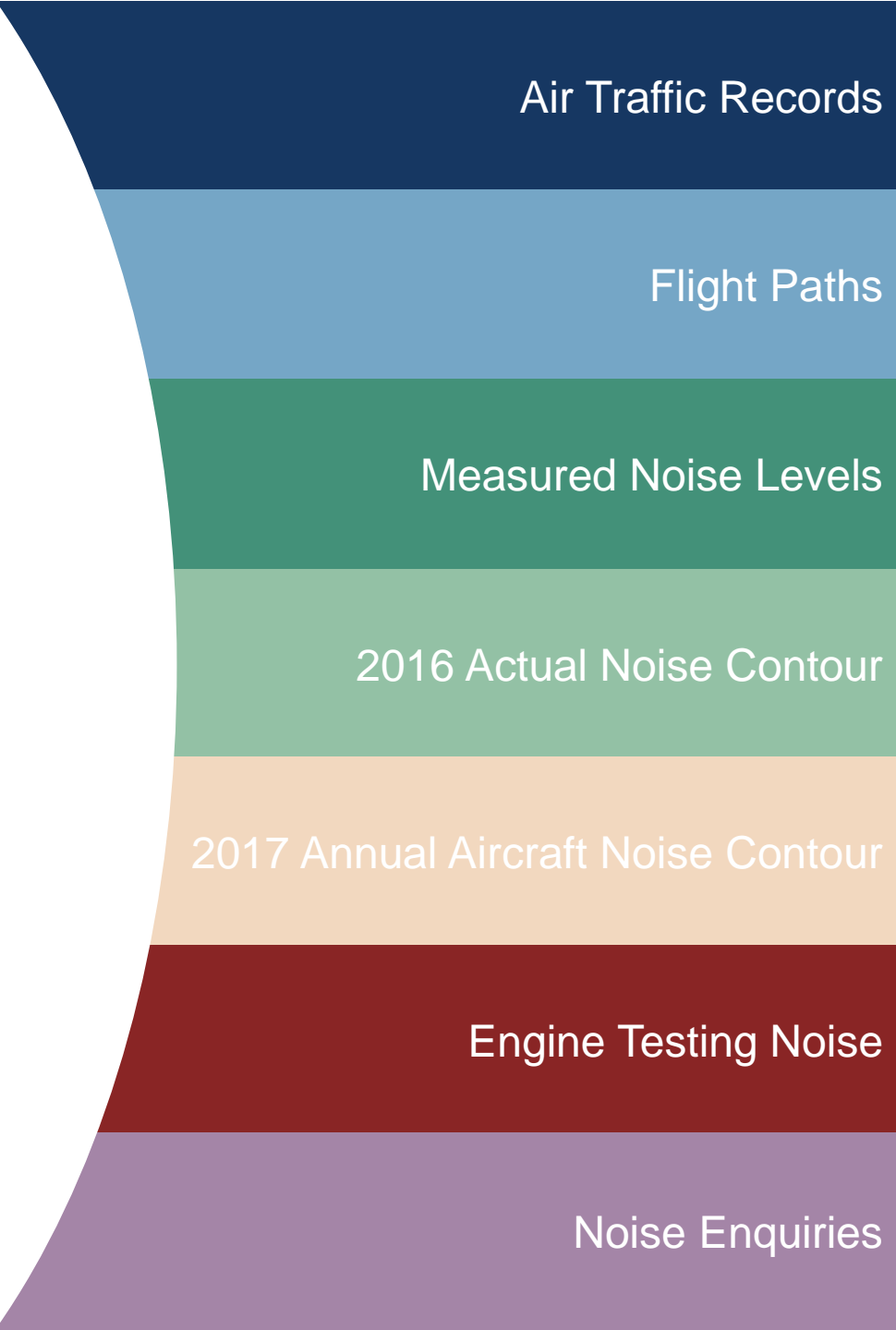
ANCCG Meeting Sept 17

FY16 Noise Management Report

By Laura McNeill



FY16 Noise Management Report



Air Traffic Records

Flight Paths

Measured Noise Levels

2016 Actual Noise Contour

2017 Annual Aircraft Noise Contour

Engine Testing Noise

Noise Enquiries

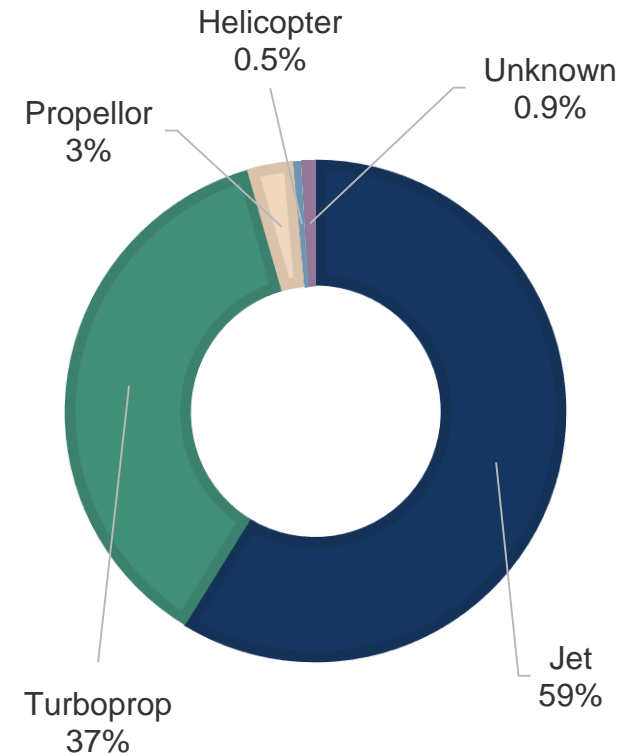
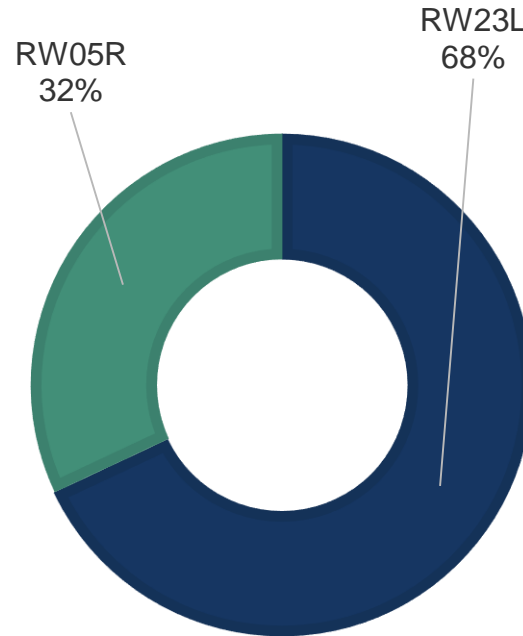
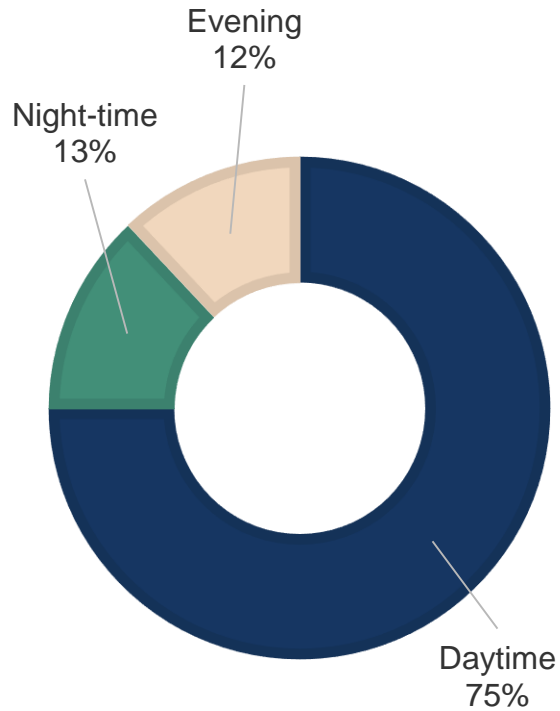
FY16 Air Traffic Records

Air Traffic
↑ 9% to
159,043
Since FY15

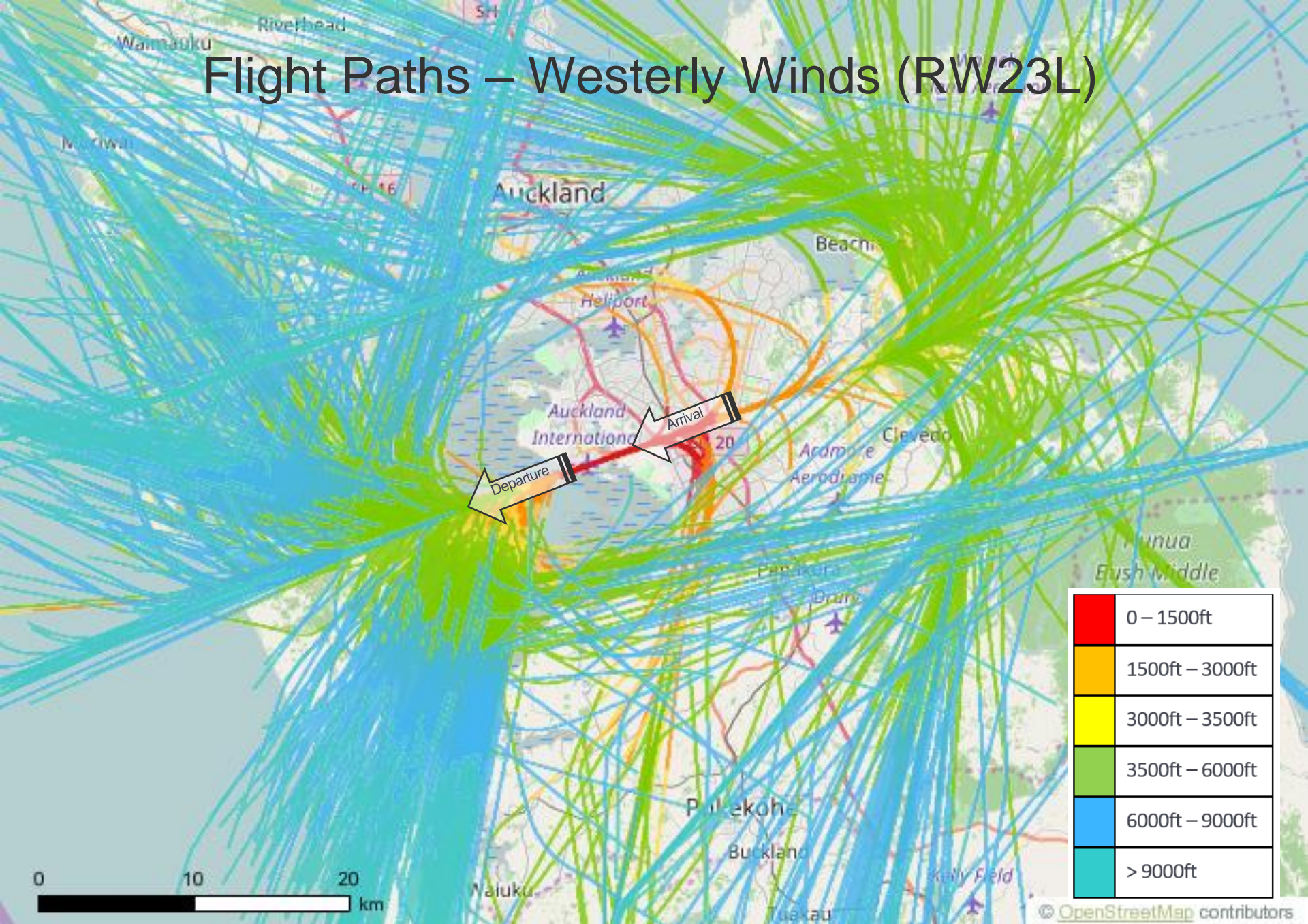
Daytime
↑ 10% to
138,671
Since FY15

Night-time
↑ 5% to
20,372
Since FY15

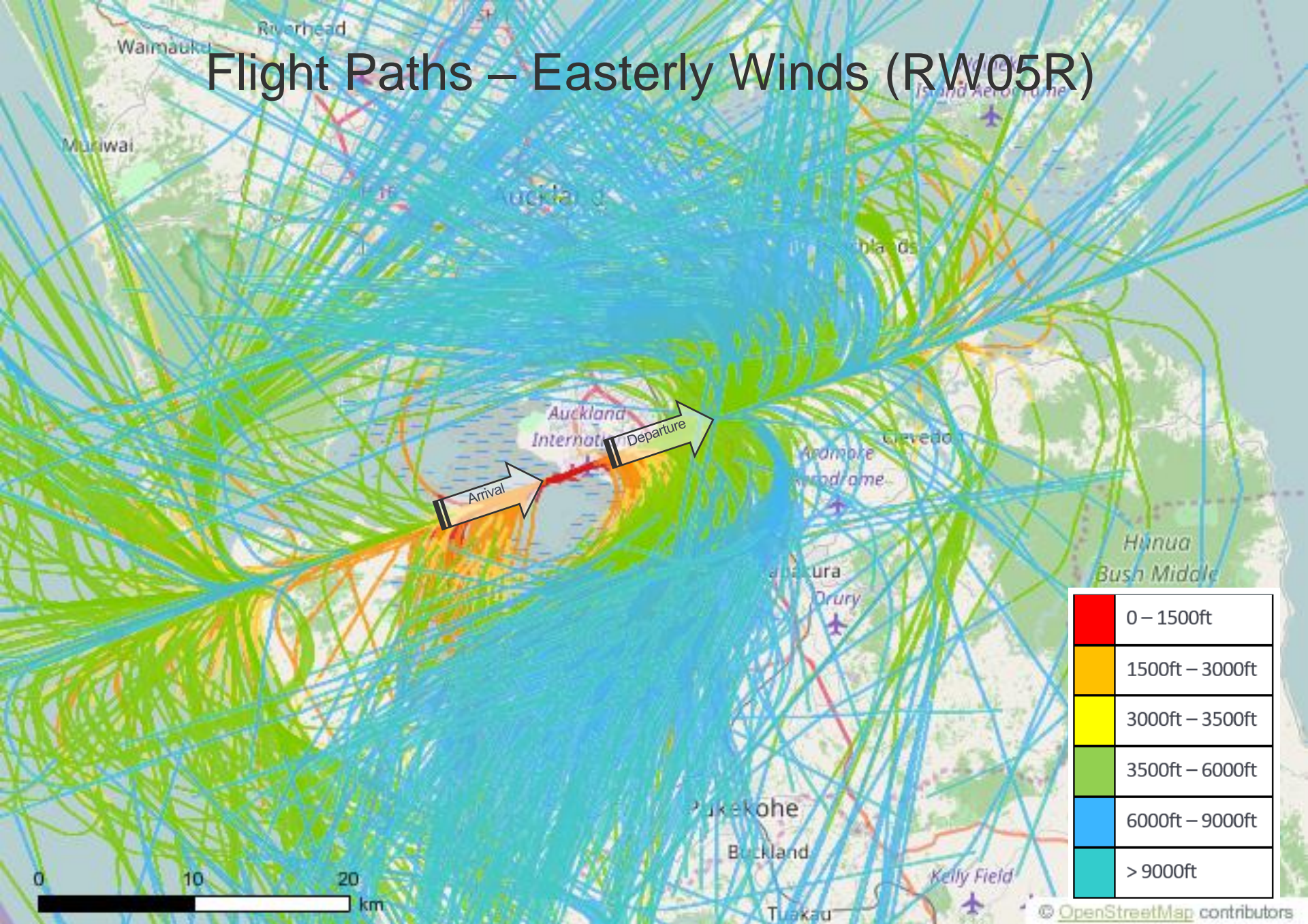
Breakdown – Air Traffic FY16



Flight Paths – Westerly Winds (RW23L)



Flight Paths – Easterly Winds (RW05R)



Measured Noise Levels FY16

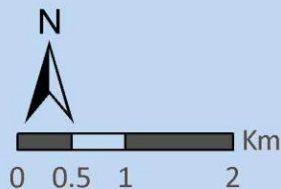
Puhinui School Monitor | 60.8 dB L_{dn}
Rolling 365 Day L_{dn} | 60.8 - 61.6
Monthly L_{dn} | 55 - 62
Change from last year | Down 0.3 dB
Calibration Checks | No issues

Velodrome Monitor | 61.8 dB L_{dn}
Rolling 365 Day L_{dn} | 61.3 - 62.0
Monthly L_{dn} | 59 - 63
Change from last year | Up 0.5 dB
Calibration Checks | No issues

Prices Road Monitor | 63.1 dB L_{dn}
Rolling 365 Day L_{dn} | 62.2 - 63.1
Monthly L_{dn} | 61 - 64
Change from last year | Up 0.9 dB
Calibration Checks | No issues

Aircraft Noise Areas

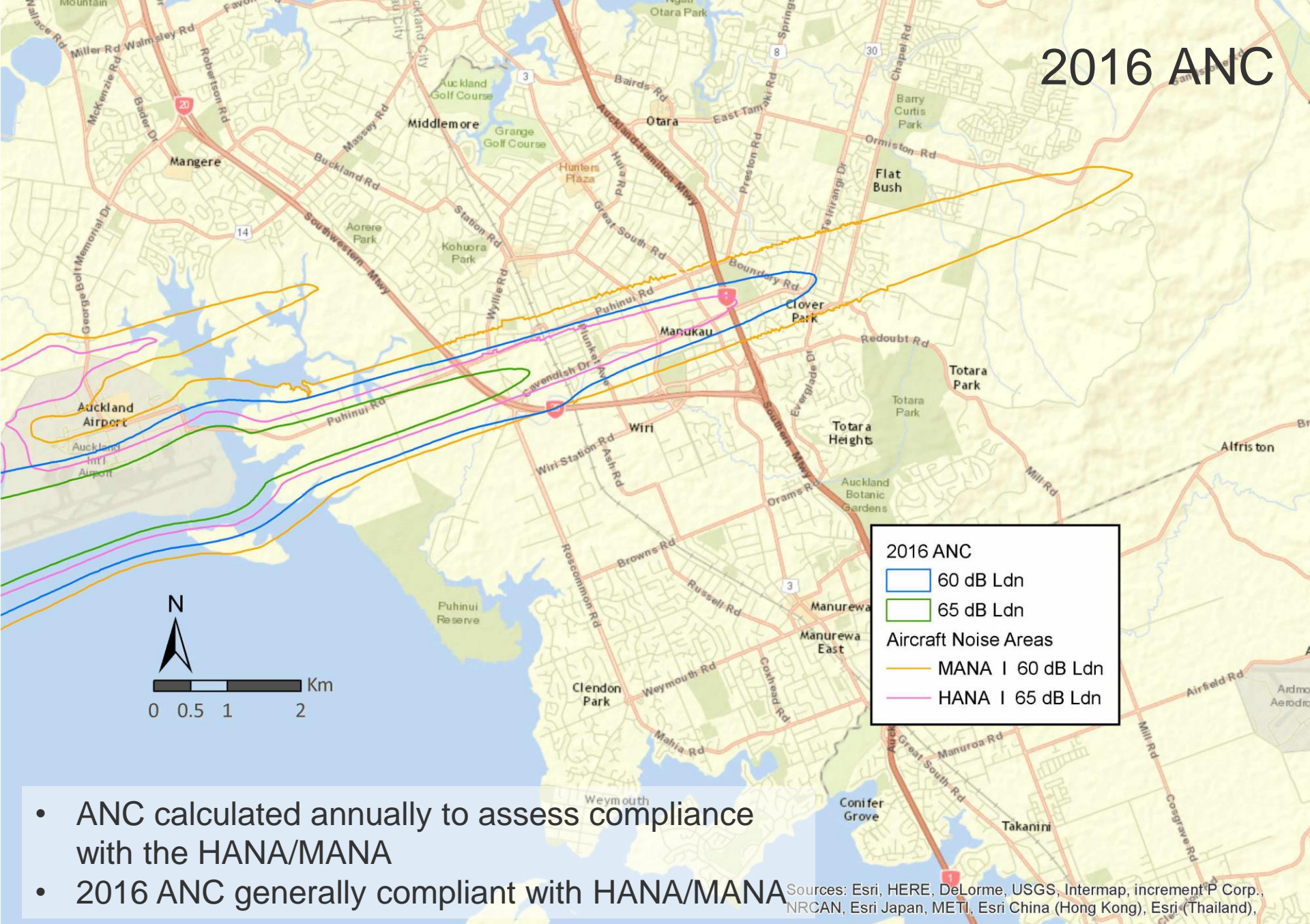
- ANNA | 55 dB L_{dn}
- MANA | 60 dB L_{dn}
- HANA | 65 dB L_{dn}



- Noise Monitors Located on the HANA Boundary
- Subject to a Noise Limit of 65 dB L_{dn}
- Noise Levels for FY16 3-4 dB below the limit

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand),

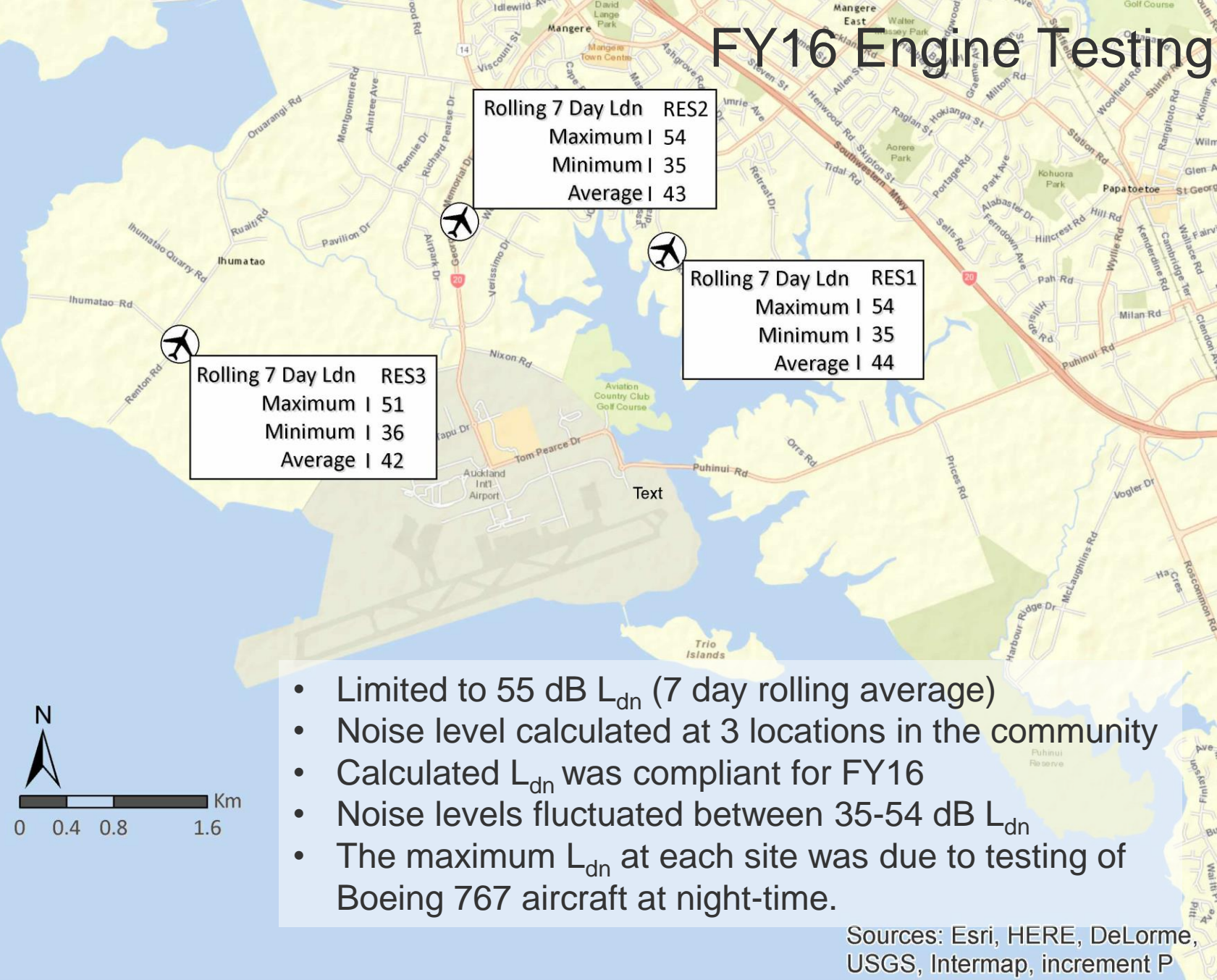
2016 ANC



- ANC calculated annually to assess compliance with the HANA/MANA
- 2016 ANC generally compliant with HANA/MANA

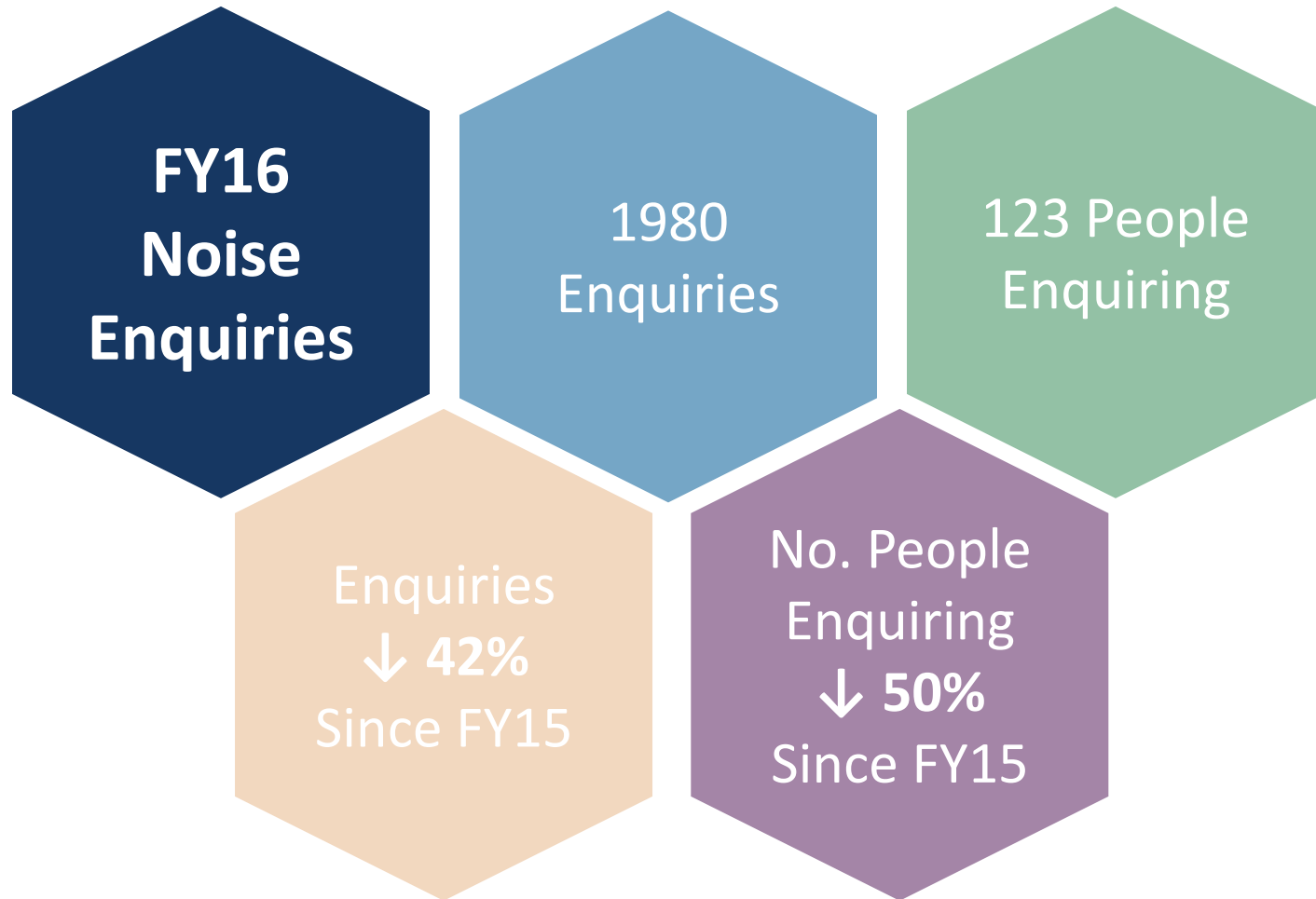
Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand),

FY16 Engine Testing

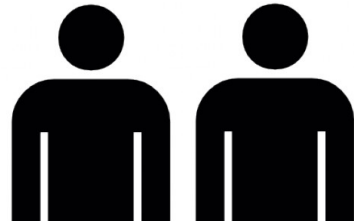


- Limited to 55 dB L_{dn} (7 day rolling average)
- Noise level calculated at 3 locations in the community
- Calculated L_{dn} was compliant for FY16
- Noise levels fluctuated between 35-54 dB L_{dn}
- The maximum L_{dn} at each site was due to testing of Boeing 767 aircraft at night-time.

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P



50%



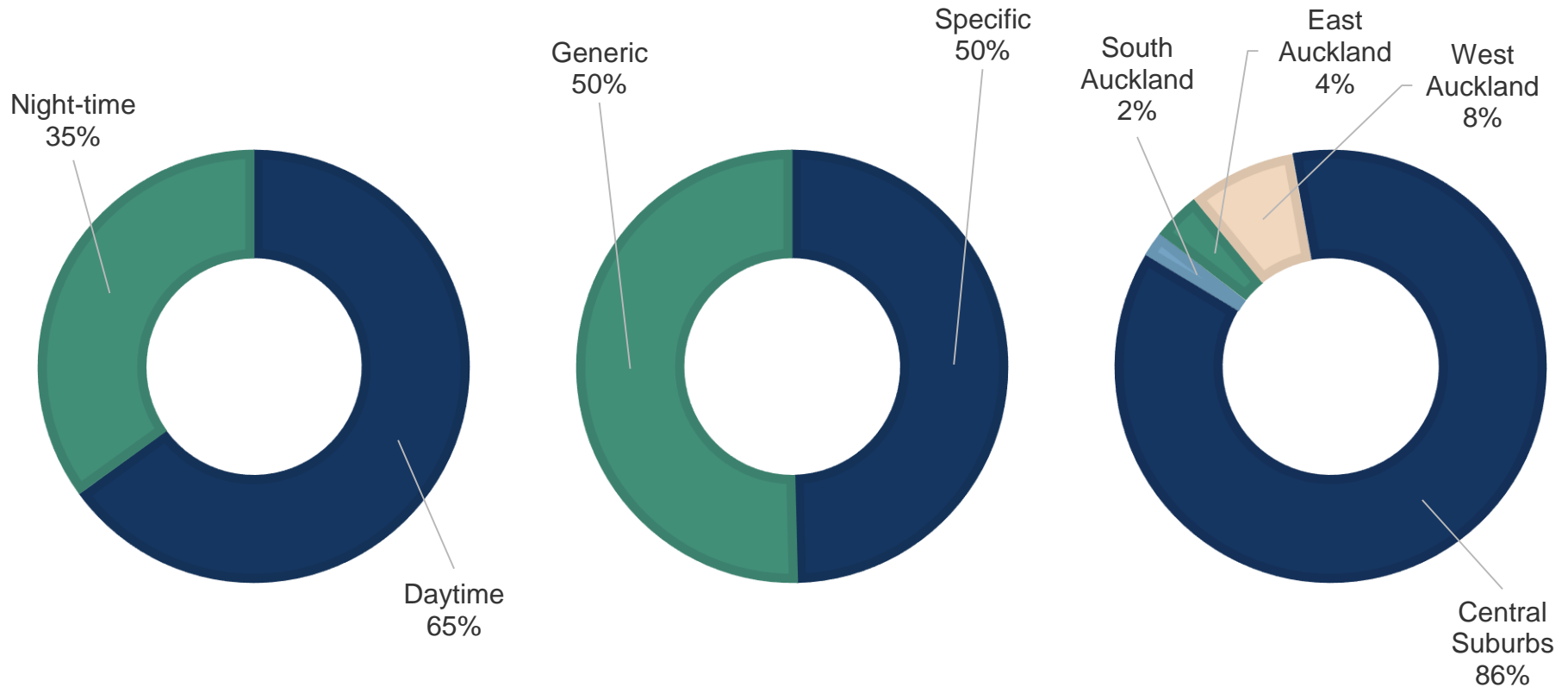
of enquiries made by 2 people

82%

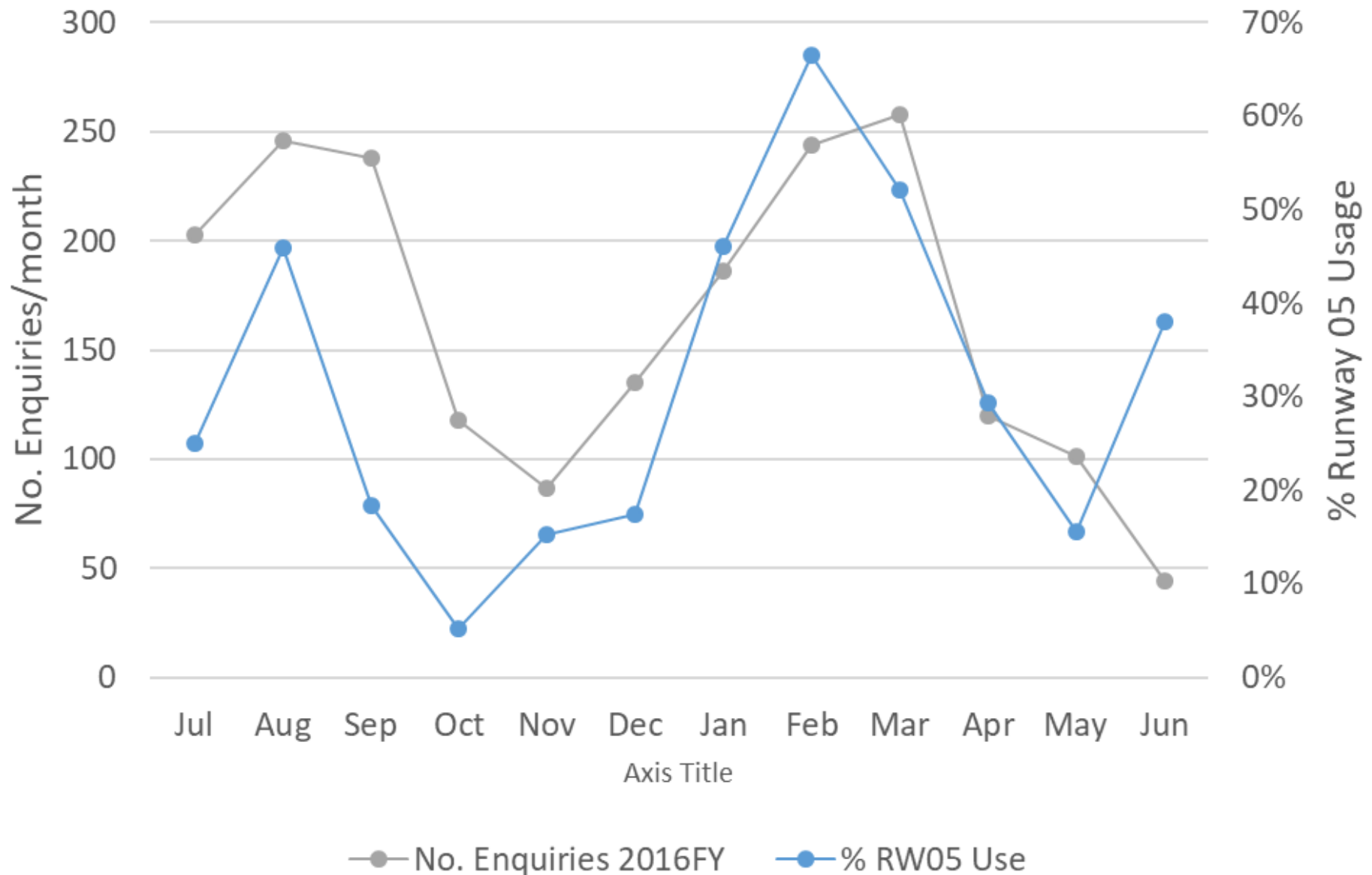


of enquiries made by 7 people

Breakdown – Noise Enquiries FY16



Enquiries vs Runway 05R Usage

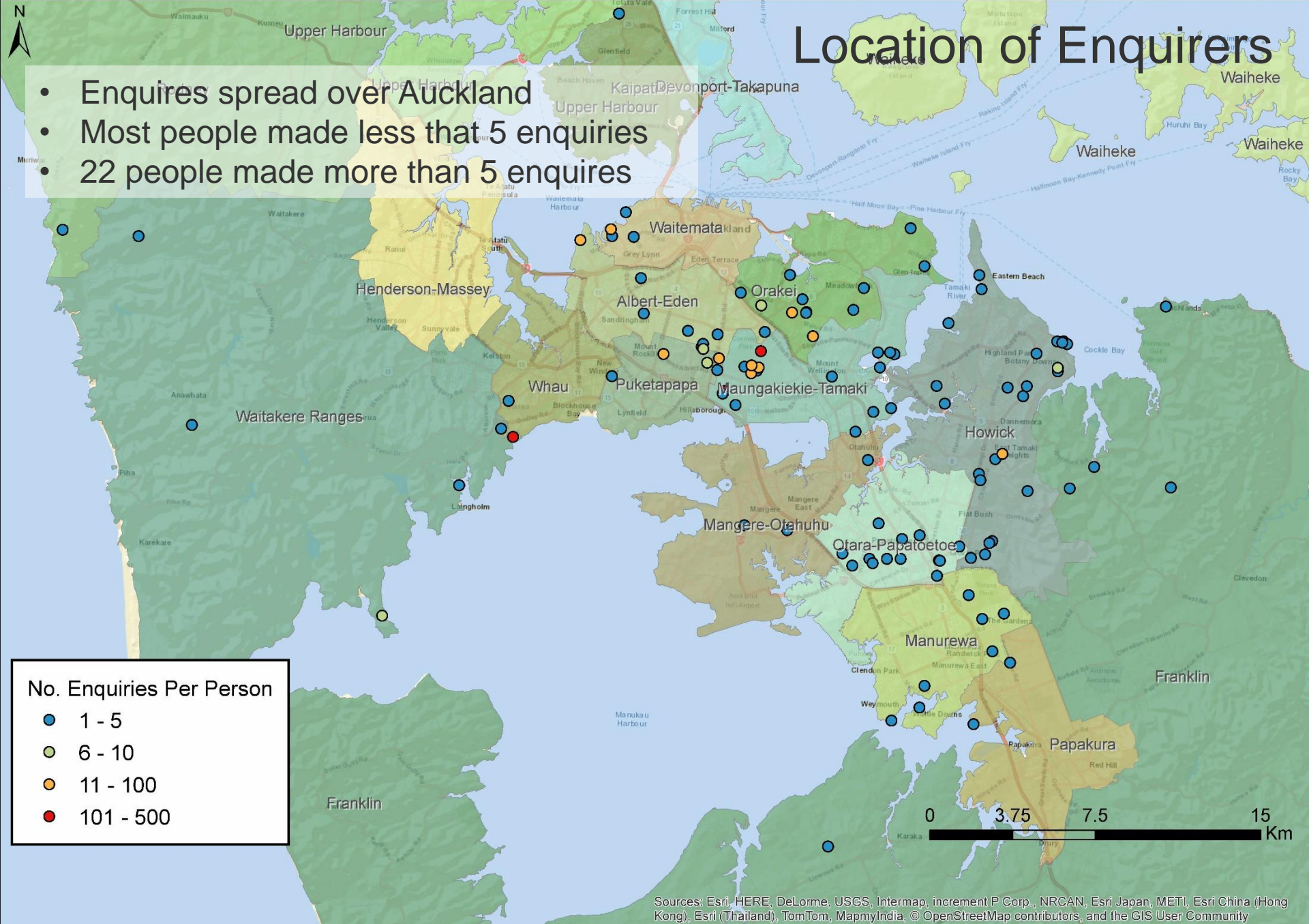


—●— No. Enquiries 2016FY —●— % RW05 Use

Note: 05R usage means departures over Manukau and arrivals over the Manukau Harbour.

Location of Enquirers

- Enquires spread over Auckland
- Most people made less than 5 enquiries
- 22 people made more than 5 enquiries





Questions?