



REALNZ

# REANNZ NETWORK & OPTICAL TRANSPORT

JAMES WIX

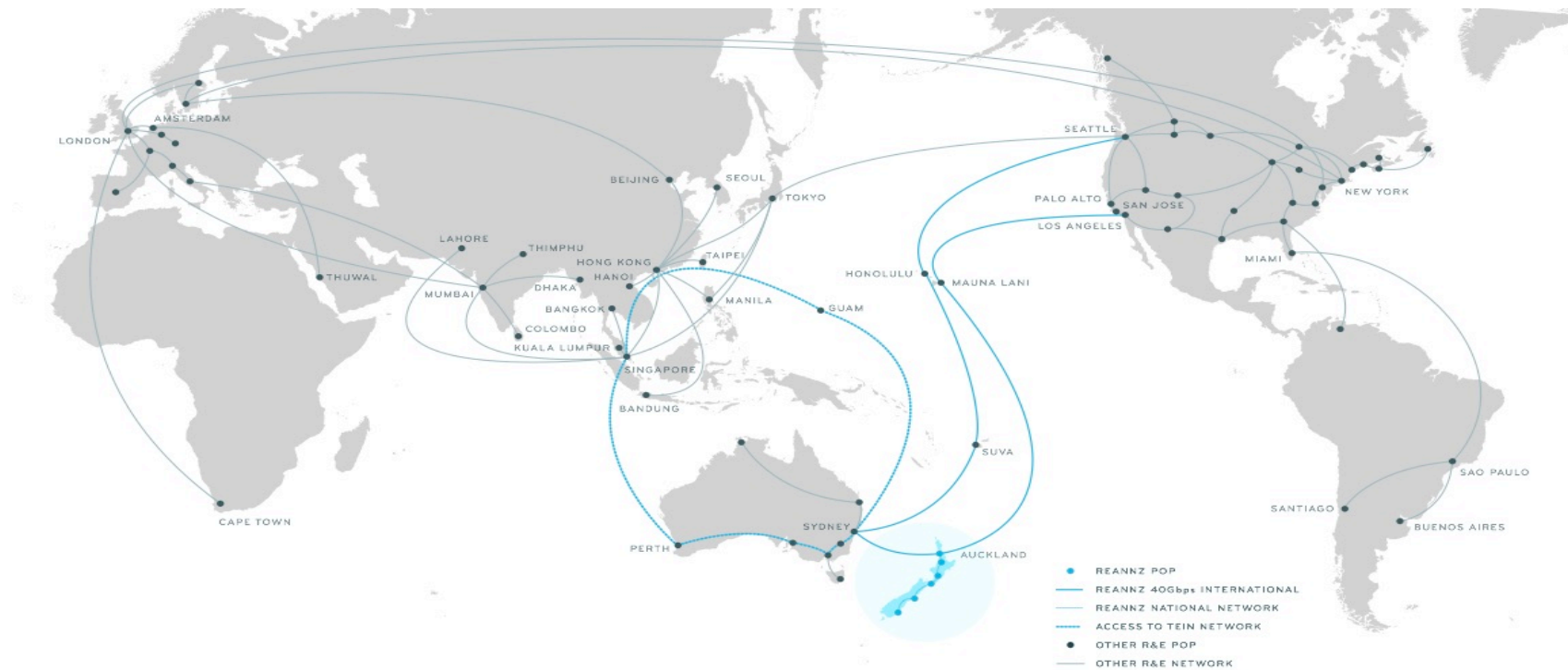
HEAD OF MANAGED SERVICES

GLIF, MIAMI, 29<sup>TH</sup> SEPTEMBER, 2016

REANNZ



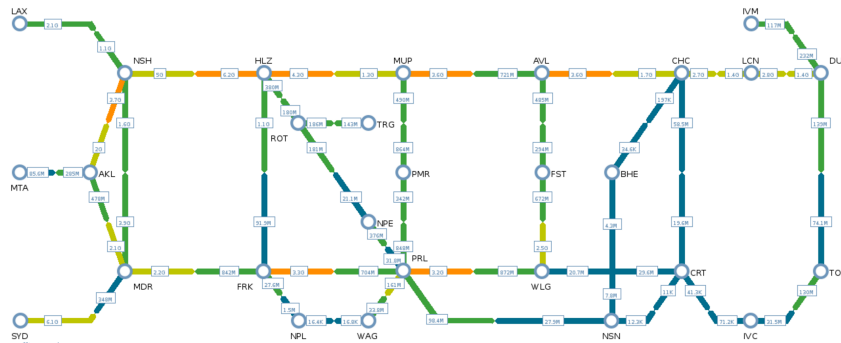
## RESEARCH AND EDUCATION ADVANCED NETWORK NEW ZEALAND



# REANNZ

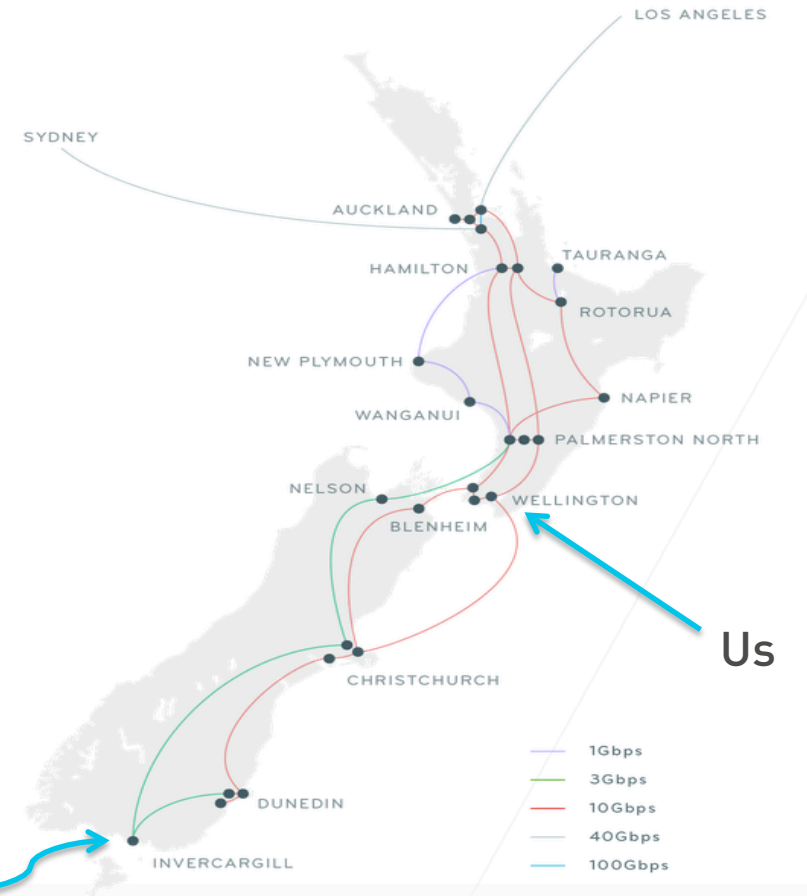
## Overview

- 28.5 people, 2.5 remote
- Ladder network



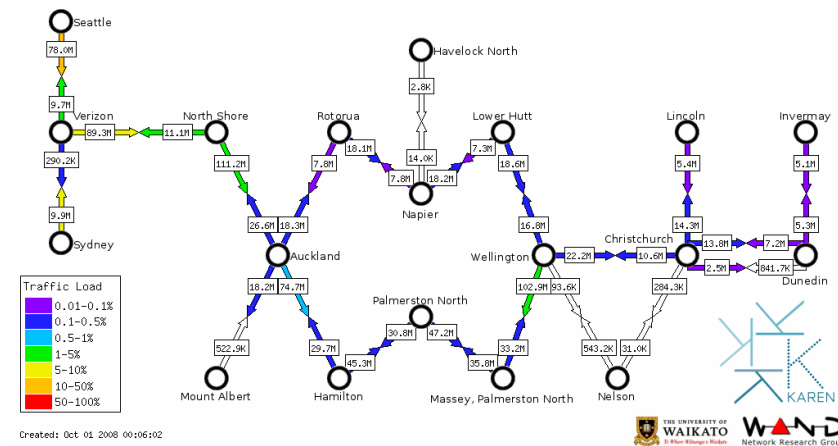
- Engineer in Residence  
<http://www.nren-eir.info/>

World's southernmost permanent R&E connection



# History

- Just had our 10 year anniversary
- Began with a service lit and managed by a big telco
- 2012/13 began moving to provider lit, but REANNZ managed hardware
- 2014 – entered into a Joint Operating Agreement with FX networks
- Current JOA footprint is the North Island plus a spur to Christchurch in the South Island
- We also purchased 2200 kilometres of fibre w/ 20 year IRUs

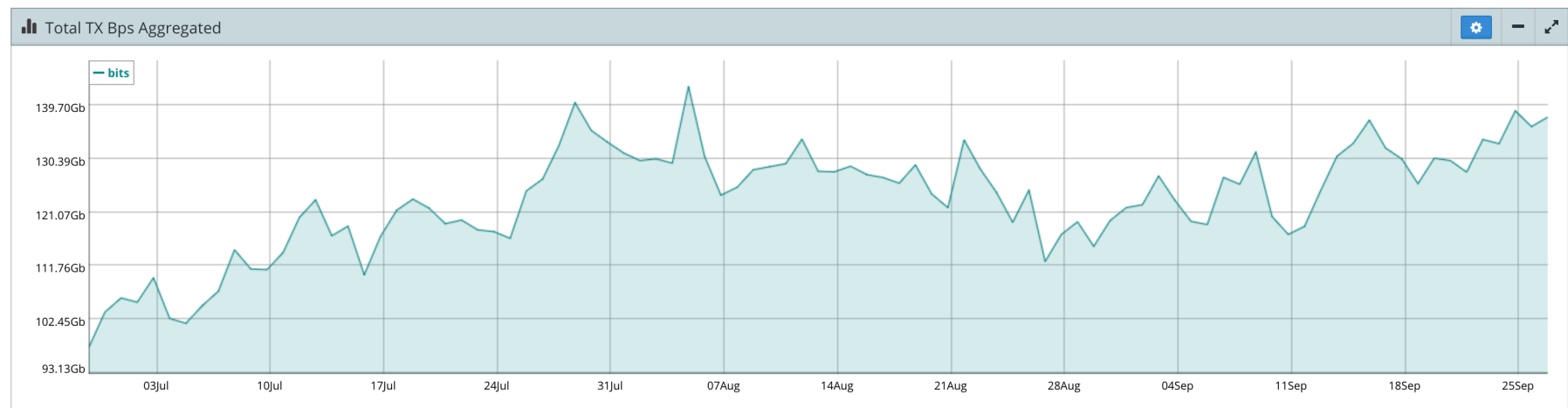




# Hardware

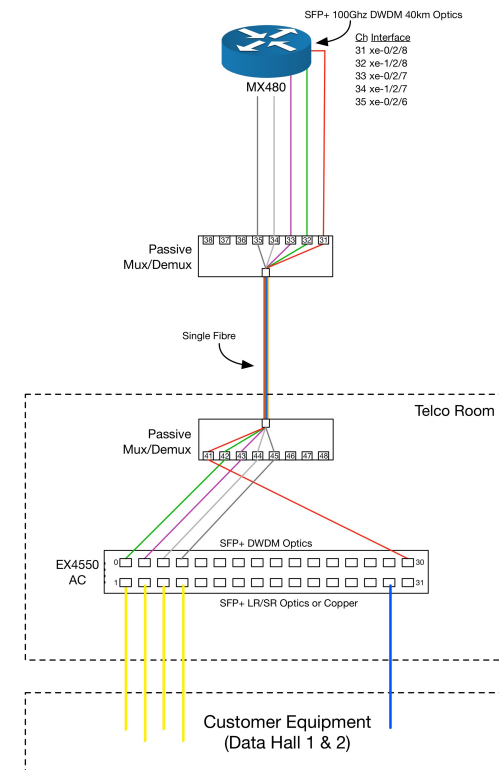
- Infinera DTN-X platform
- 8 XTC-10 Chassis', 6 XTC-4's
- 500G currently lit on each path
- Future proofed to 8Tb
- ~300 10G TOMs installed
- Currently running 8.2, going to 10.0.1, then straight to 16.x





# Other Services

- DC Connect
  - Push into Datacentres (IaaS, DR, etc)
  - Dual, diverse, single fibres with a passive De-/Mux at each end
  - Still under development
- Future plans
  - Express path?
  - Selective Augmentation
  - Cloud Providers
  - SDN (Faucet, REANNZ)



# Thanks