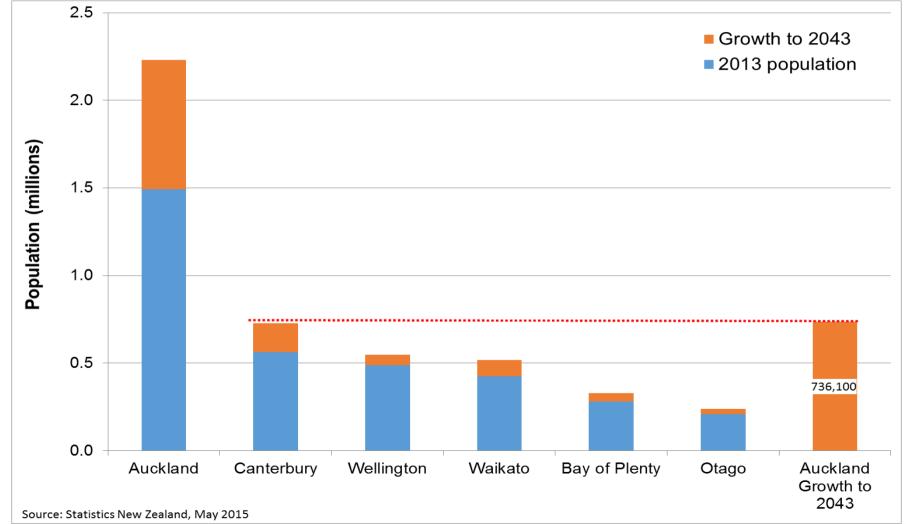
Auckland Transport

Smarter, Integrated Transport Networks

November 2016

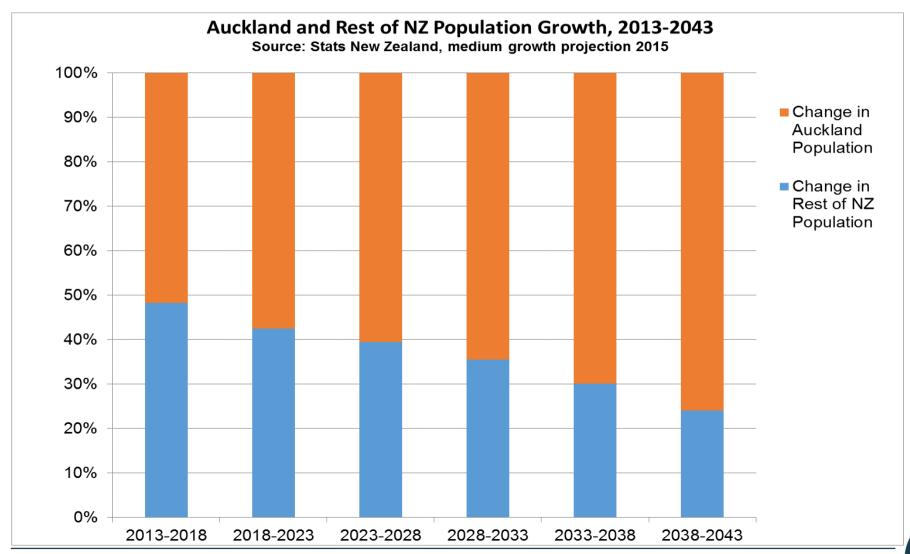


Regional growth

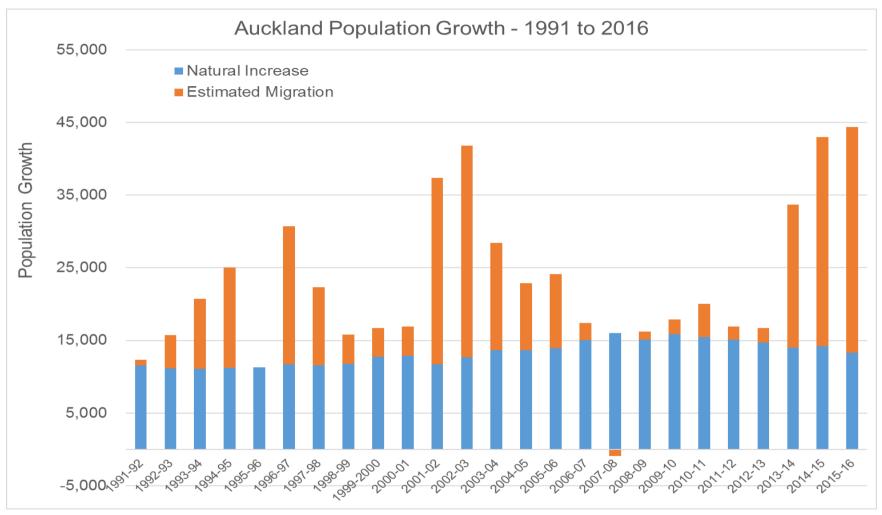








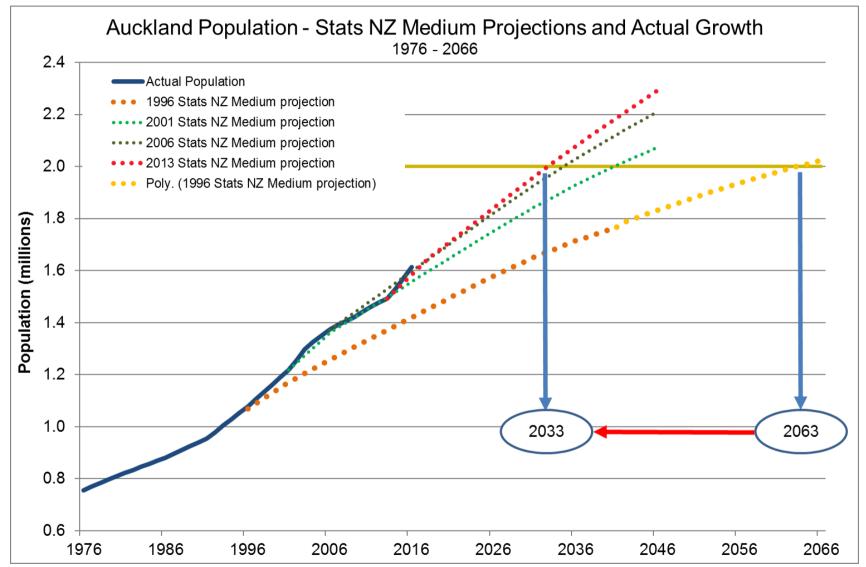




Source: Jackson & Pawar/Complied from Statistics New Zealand ERP, Births, Deaths Datasets (NB. Changes in timing and method of estimating Resident Population between 1995 and 1996 mean that only natural increase can be shown for that year)

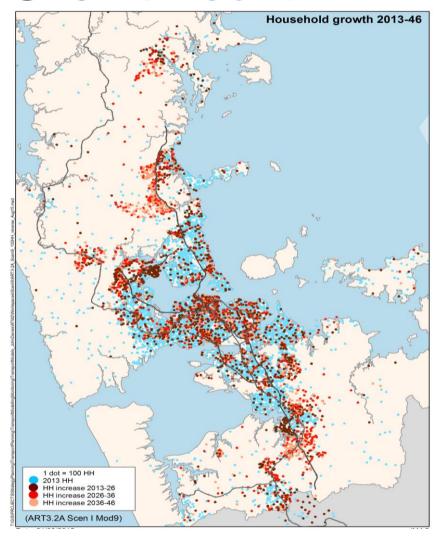


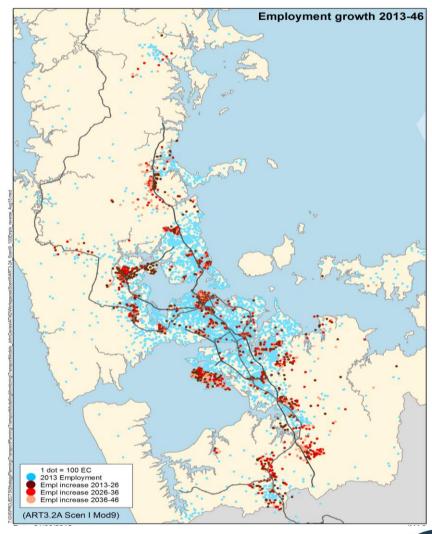












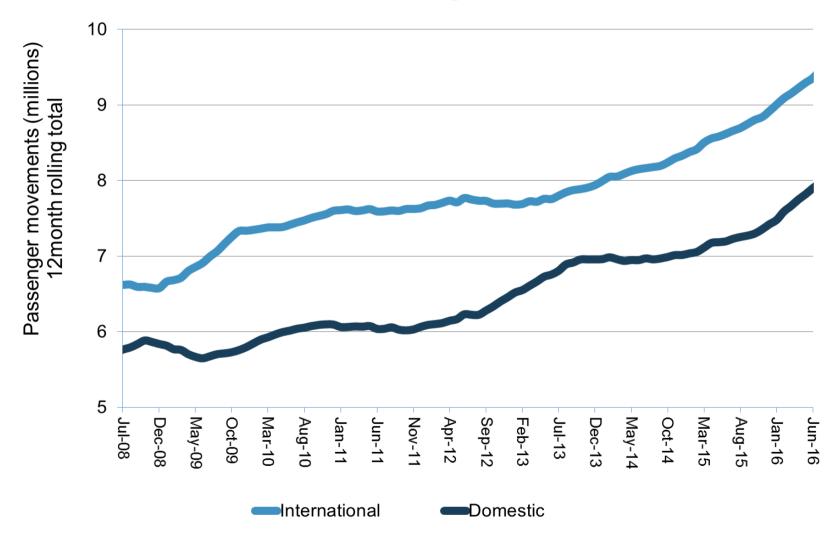








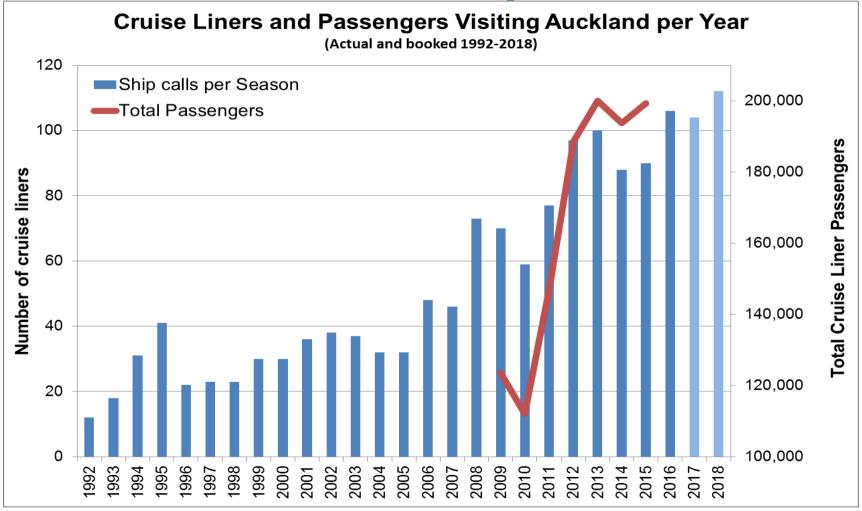
Growth - Air Passenger Movements







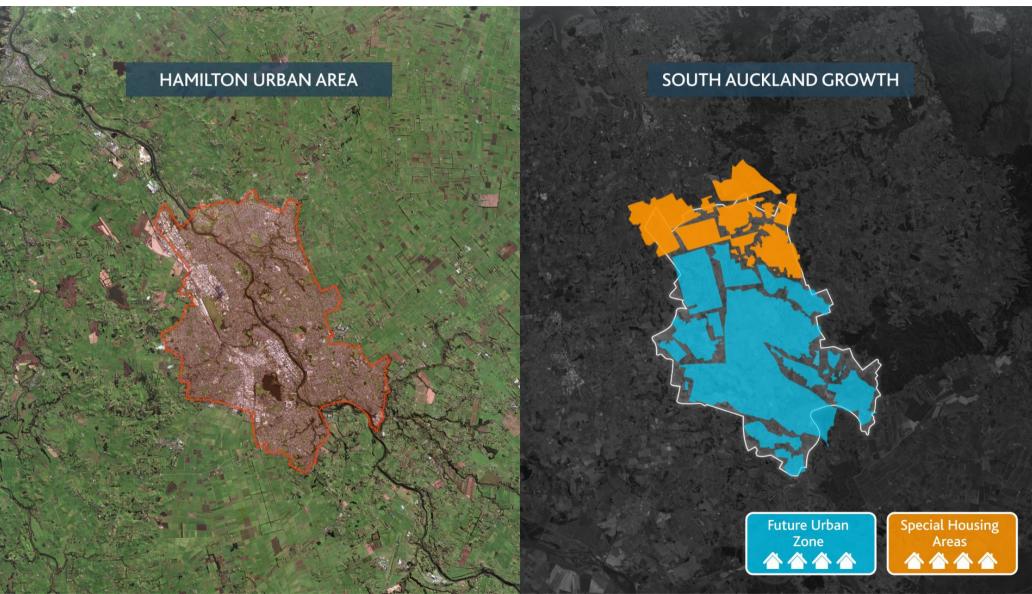
Growth – Cruise Ships



Ships are getting larger so passenger growth even more significant

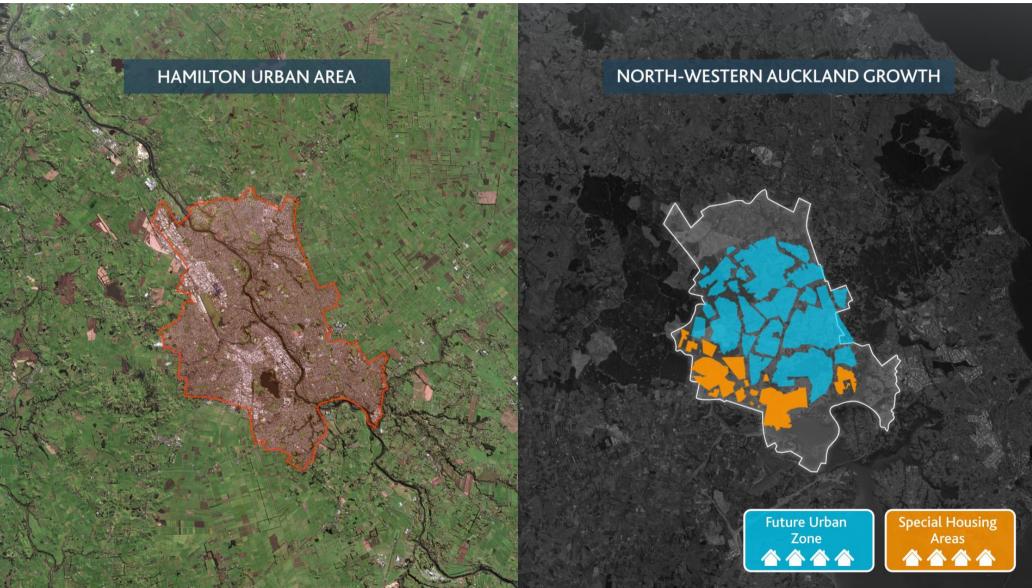






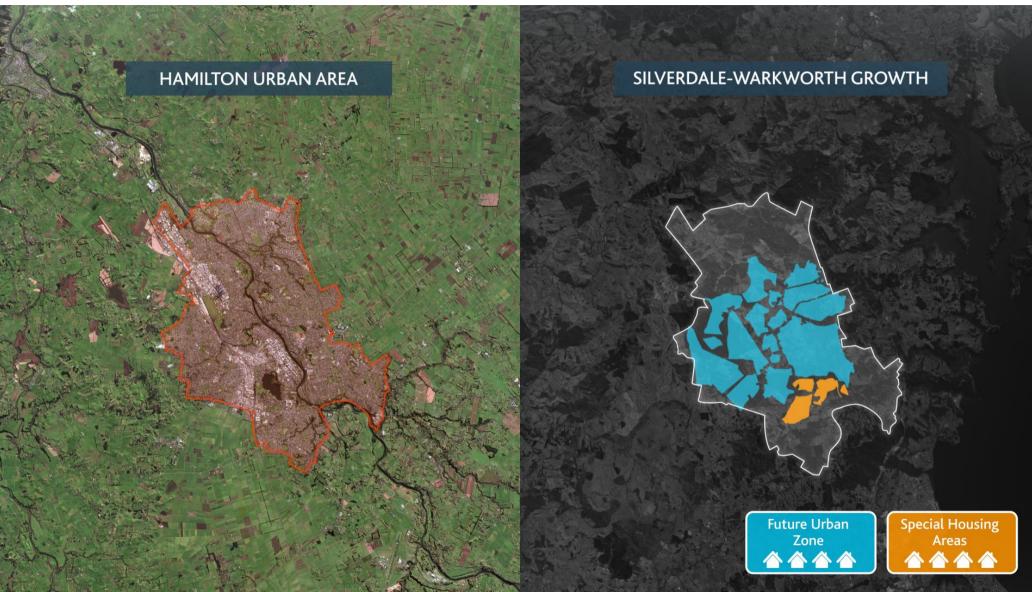








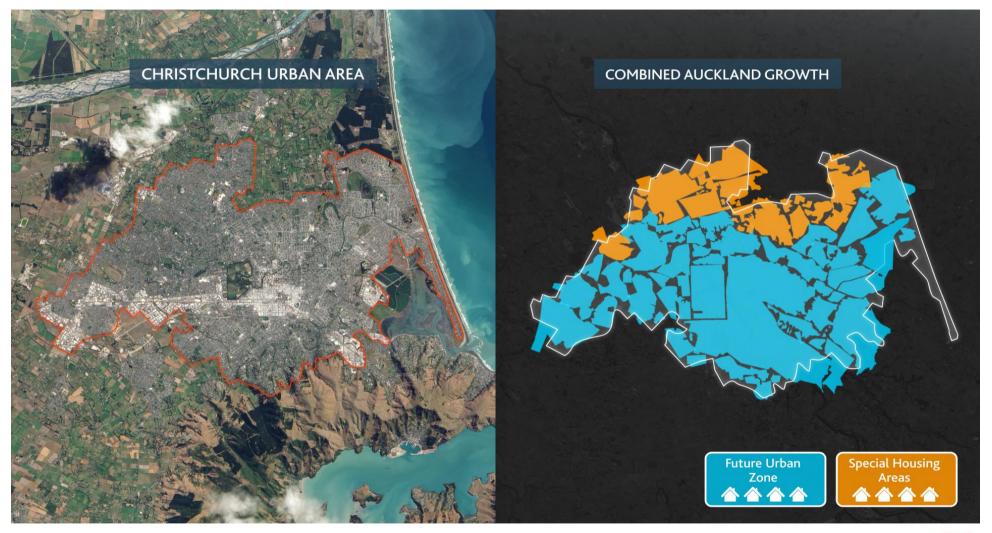






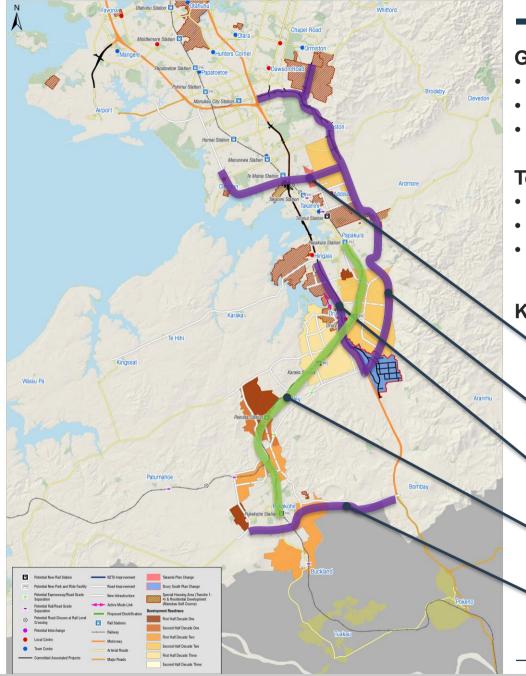


Greenfield Growth cont...









Growth in household numbers:

- Approved through SHAs 11-14,000
- Further release in FULSS 26-39,000
- Total 40-50,000

Total transport infrastructure requirements:

- Arterials and public transport \$2.4-\$3.1 billion
- State highways \$0.5-\$0.7 billion
- Total \$2.8-\$3.7 billion

Key projects

Provide east west connection between Takanini and Te Mahia road

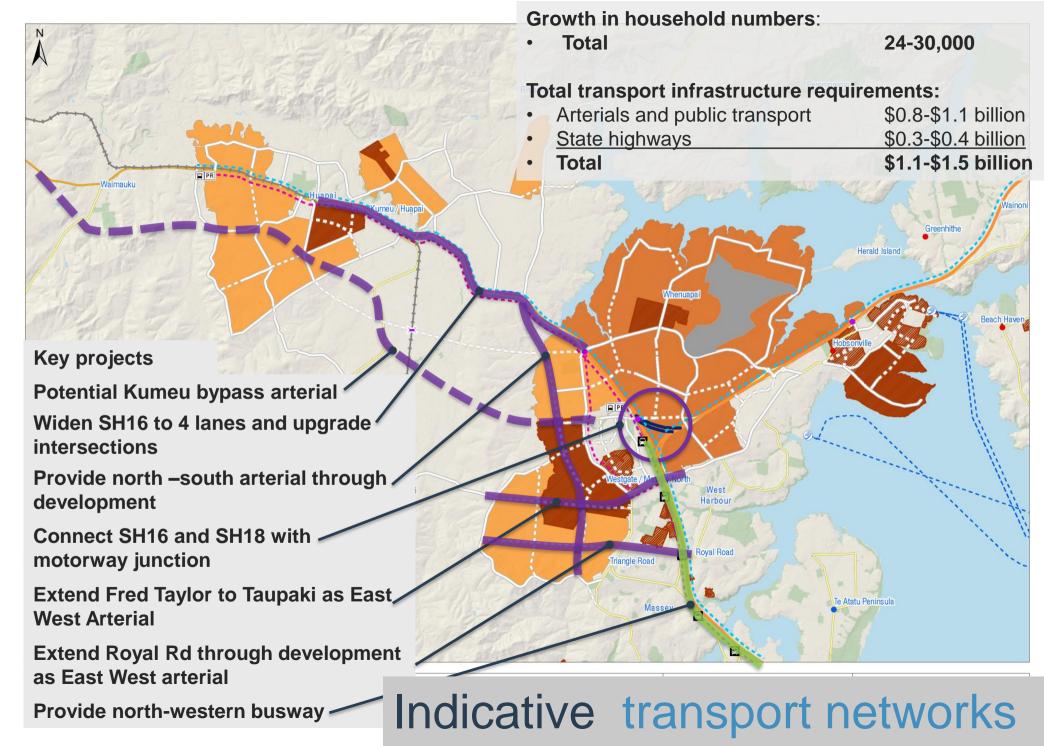
Extend Mill Road corridor to connect Flat Bush, Takanini, Papakura and Drury South

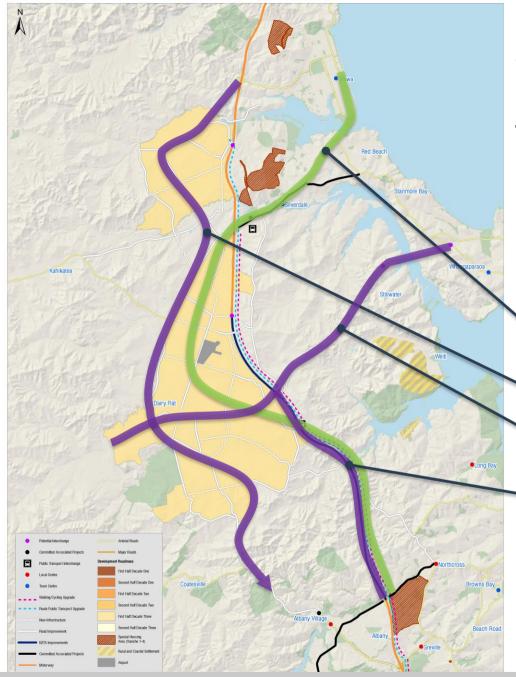
Widen SH1 to 6 lanes between Papakura and Drury South

Electrify the rail line between Papakura and Pukekohe, plus provide 3 additional stations

Provide Pukekohe bypass plus upgrade of arterial to SH1

Indicative transport networks





Growth in household numbers:

Total 25-30,000

Total transport infrastructure requirements:

Arterials and public transport \$1.5-\$1.9 billion

State highways \$0.3-\$0.4 billion

Total \$1.8-\$2.3 billion

Key projects

Extend busway from Albany to Orewa

Upgrade/connect Wainui/Dairy Flat with parallel arterial

Provide Penlink and extend into Dairy Flat

Widen SH1 to 6 lanes between Albany and Penlink



Indicative transport networks



Total

5 - 6,500

Total transport infrastructure requirements:

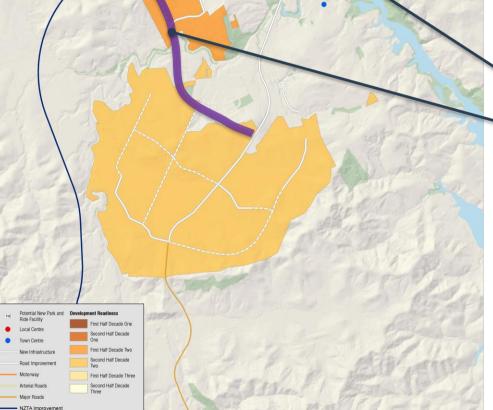
Arterials and public transport

\$200 - \$260 mil

Key projects

Matakana Link Road

Western Collector



In diseasement, worked as due to be too be seen to the compared about the process of the compared about t







Public transport

- Significant tool for reducing congestion – but not silver bullet
- PT growth faster than population
- PT expenditure more than balanced by expenditure in other areas
- Key is reliability of travel time

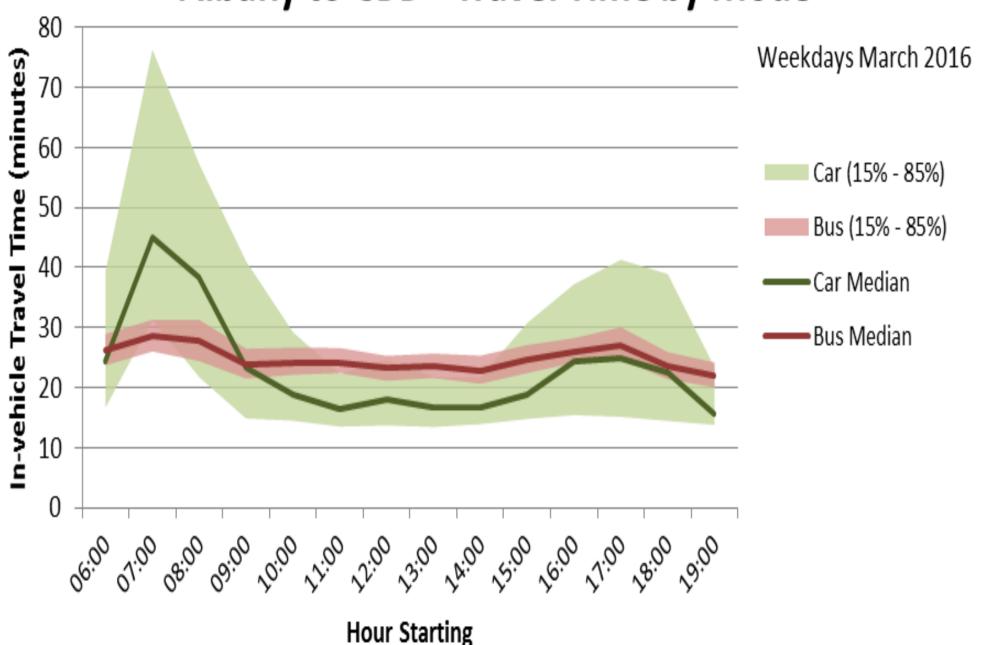


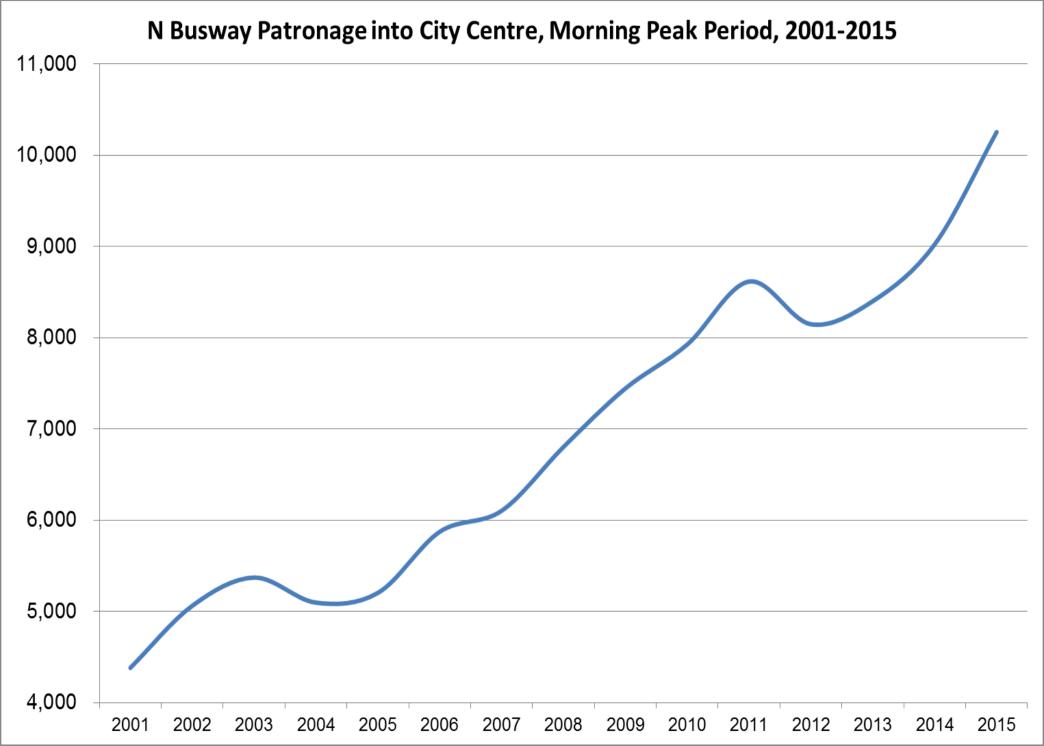




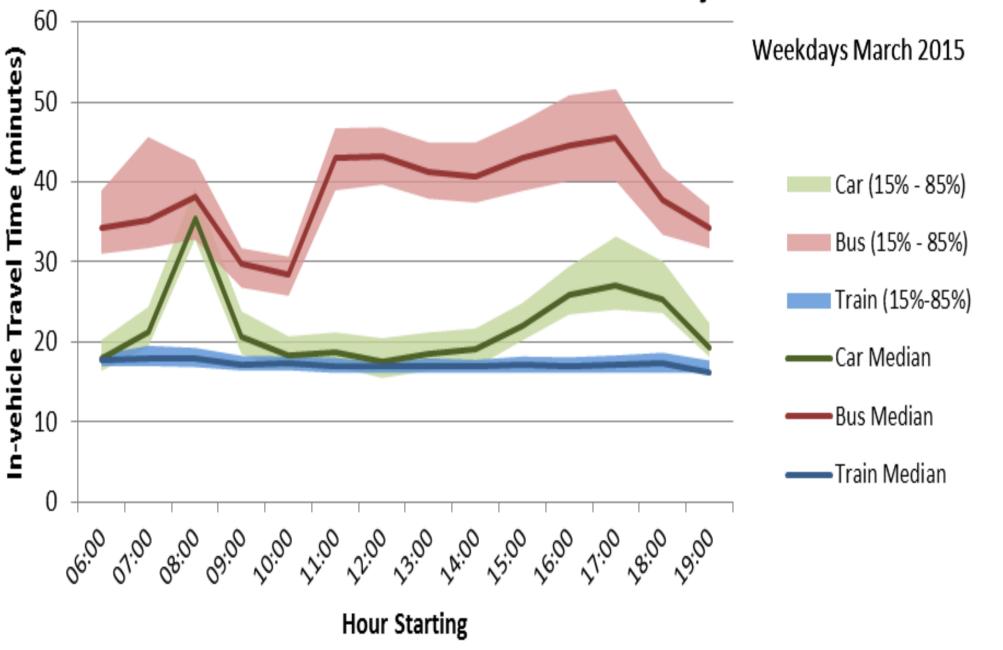
People Entering The City Centre by Car and PT: 2001-2016 (Morning Peak Period, 7am-9am) 90,000 Number of People travelling into the City Centre ■ Public Transport 80,000 ■ Private Vehicle 70,000 60,000 50,000 40,000 30,000 20,000 10,000 0 2001 2016

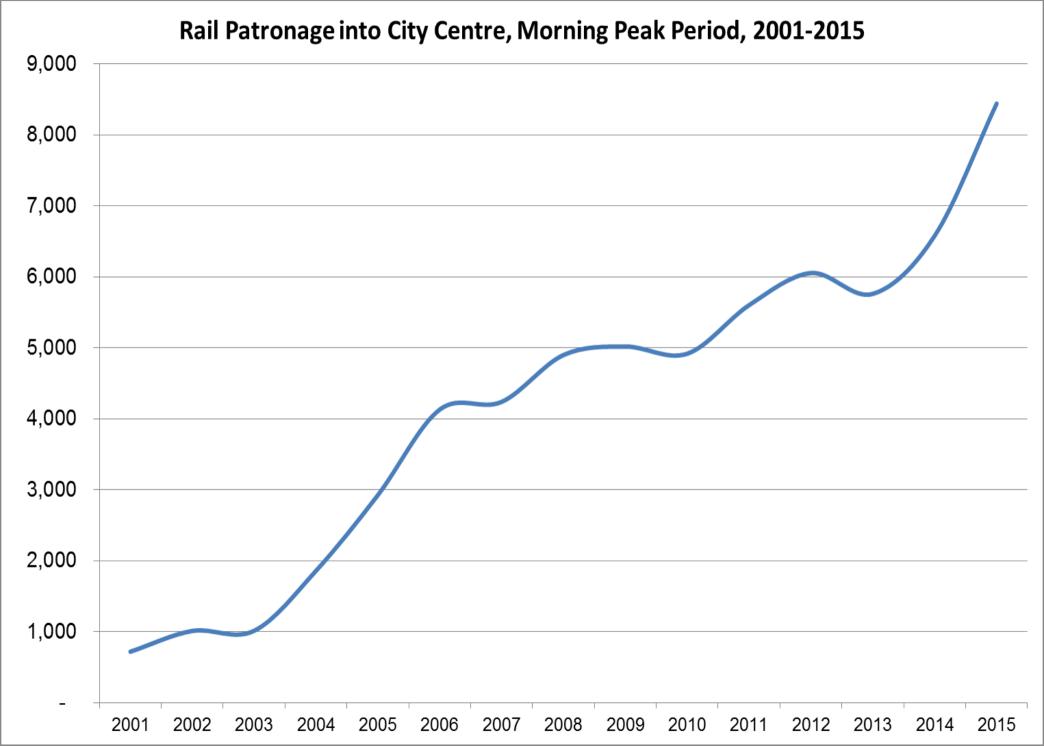
Albany to CBD - Travel Time by Mode





Panmure to CBD - Travel Time by Mode

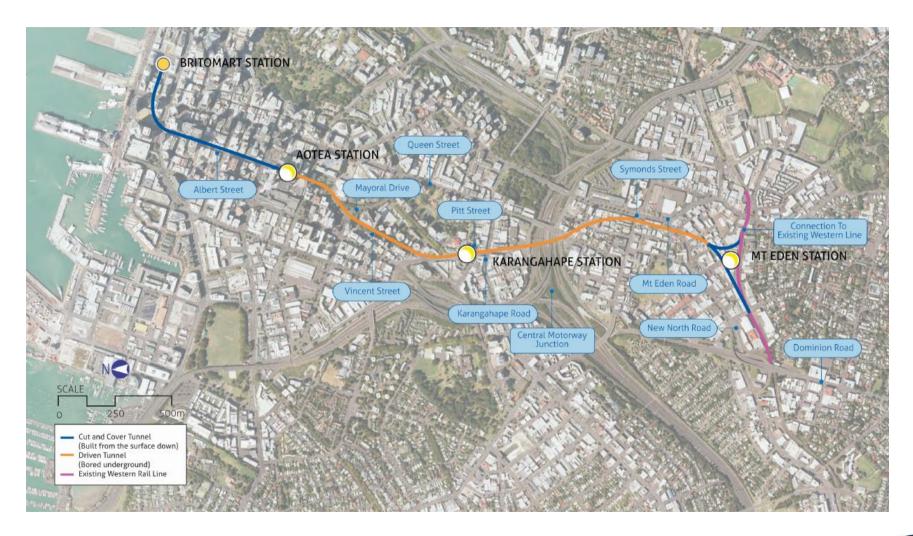




Rapid Public Transit



CRL alignment

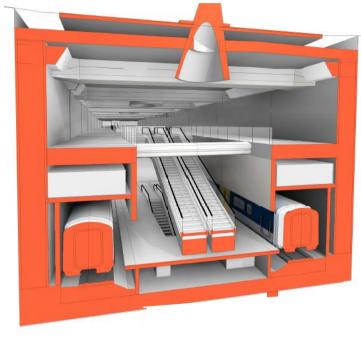






Aotea station













Aotea







Aotea

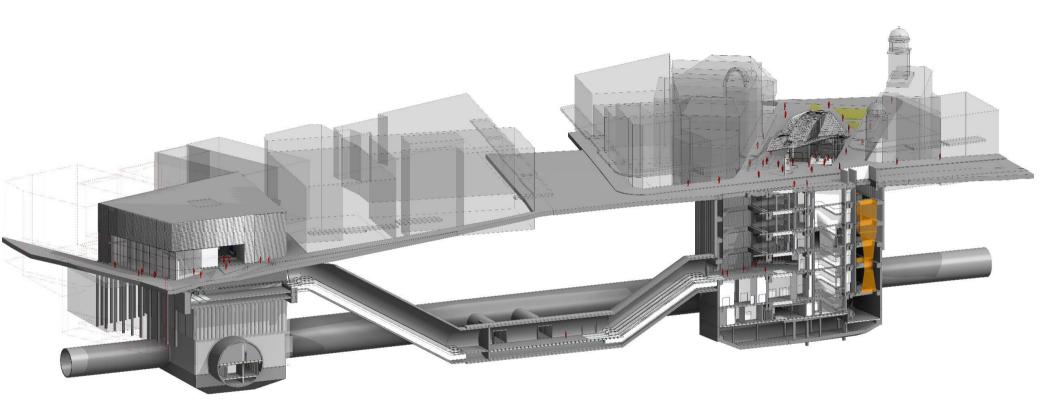






Karangahape Station

Cutaway Section











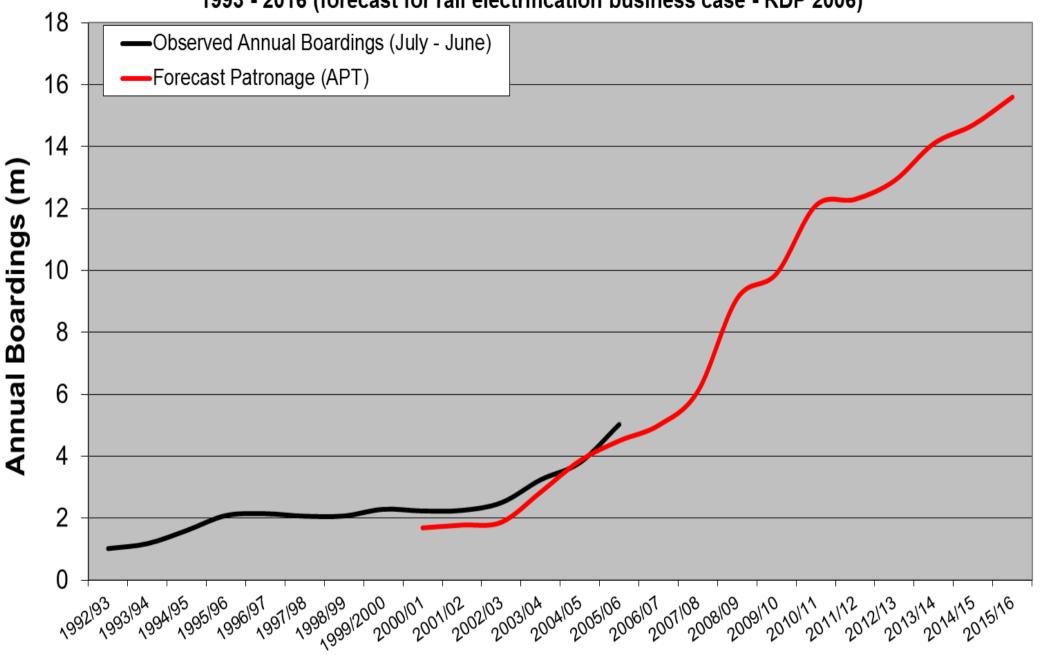
Karangahape Road



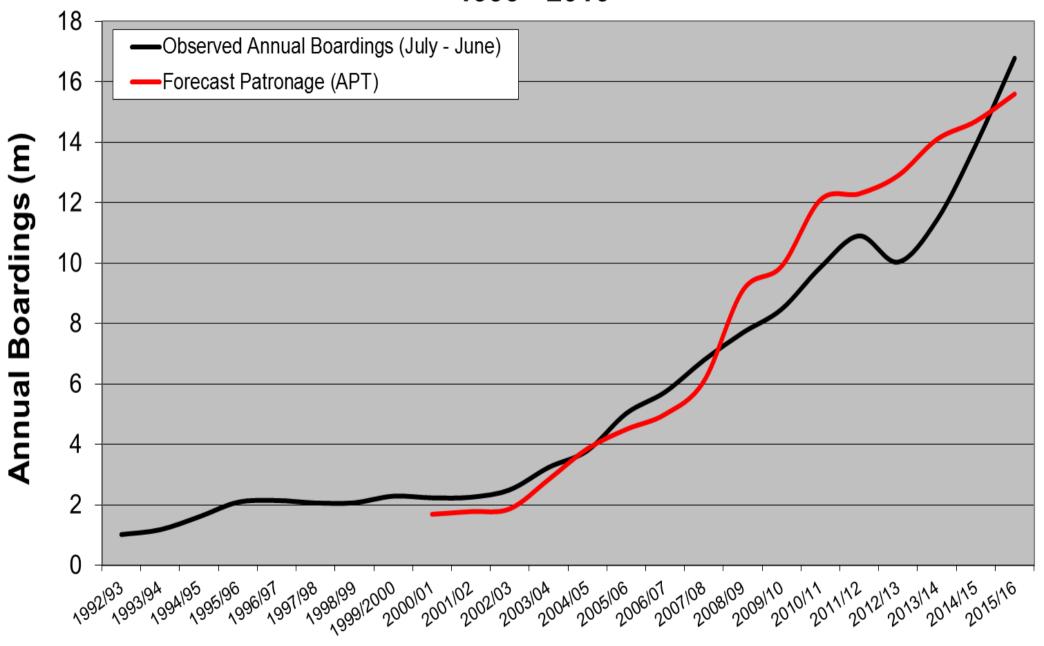


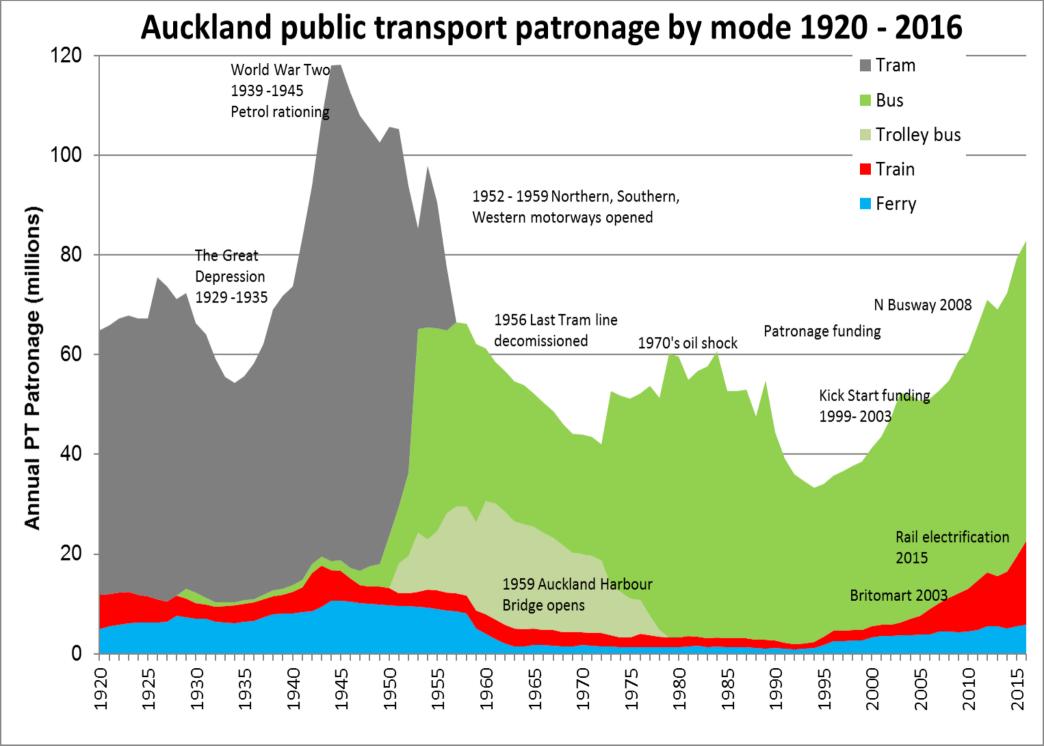
Auckland Observed and Forecast Rail Patronge Trends

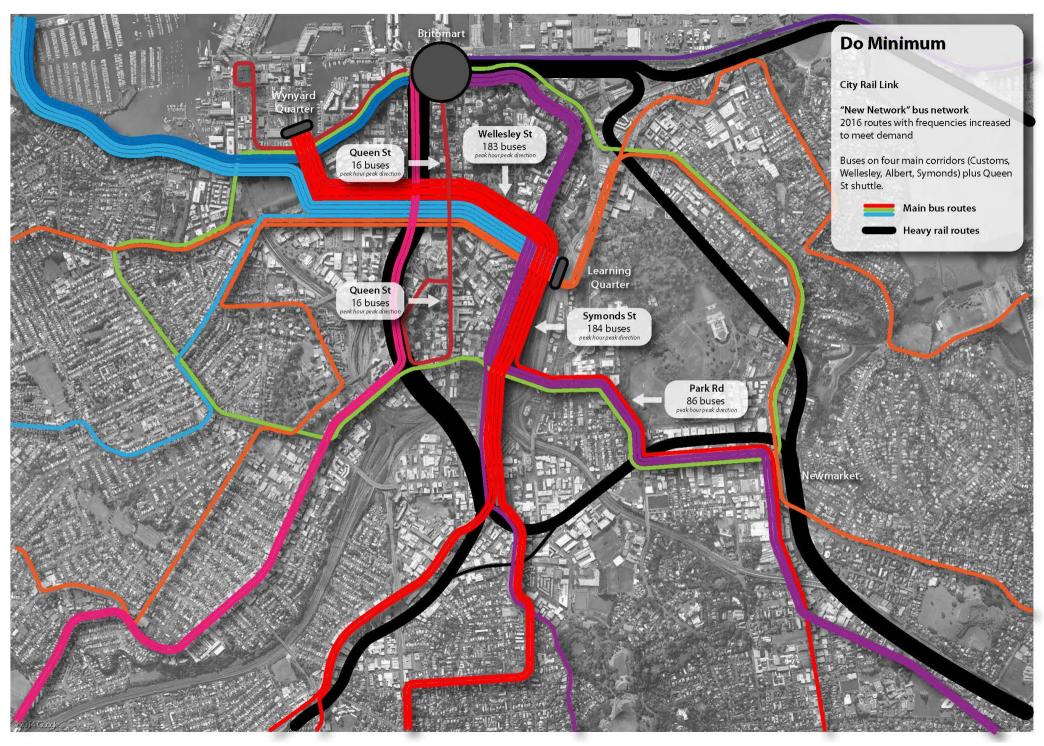
1993 - 2016 (forecast for rail electrification business case - RDP 2006)

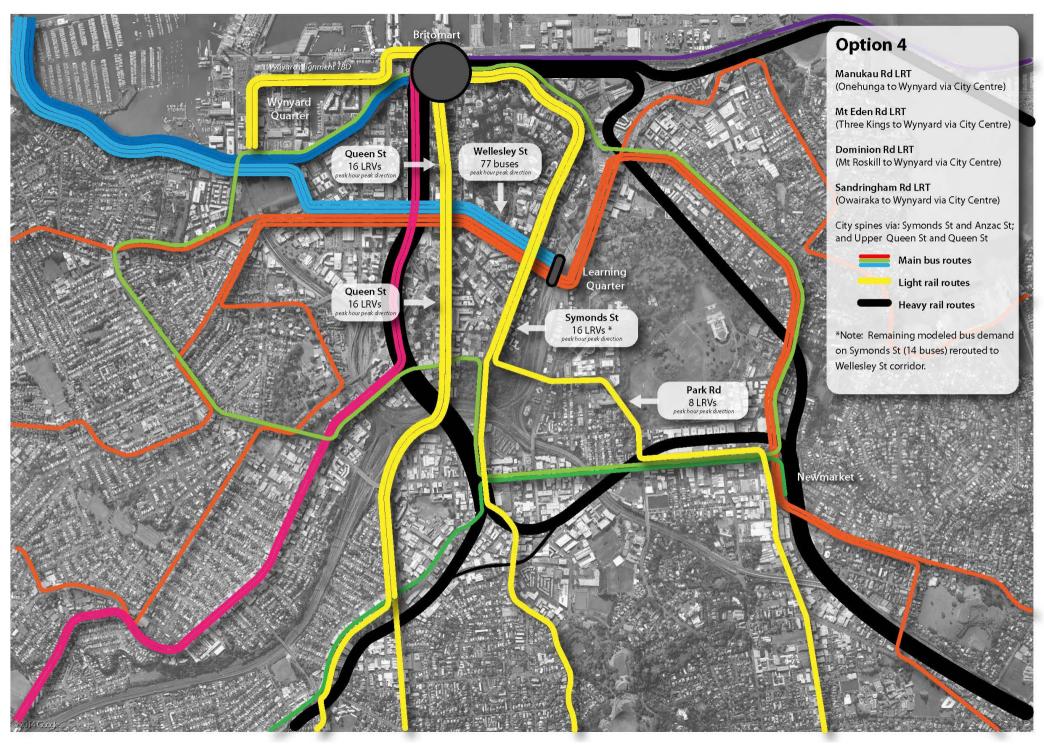


Auckland Observed and Forecast Rail Patronge Trends 1993 - 2016















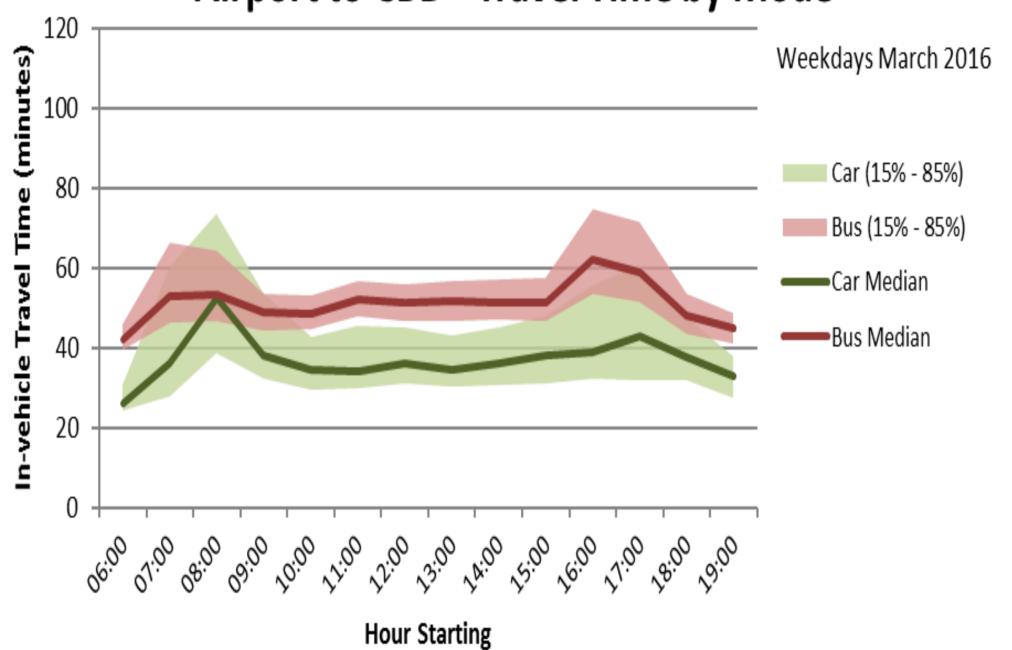
Airport heavy and light rail evaluation – preliminary findings

video clip (stills taken from video clip)

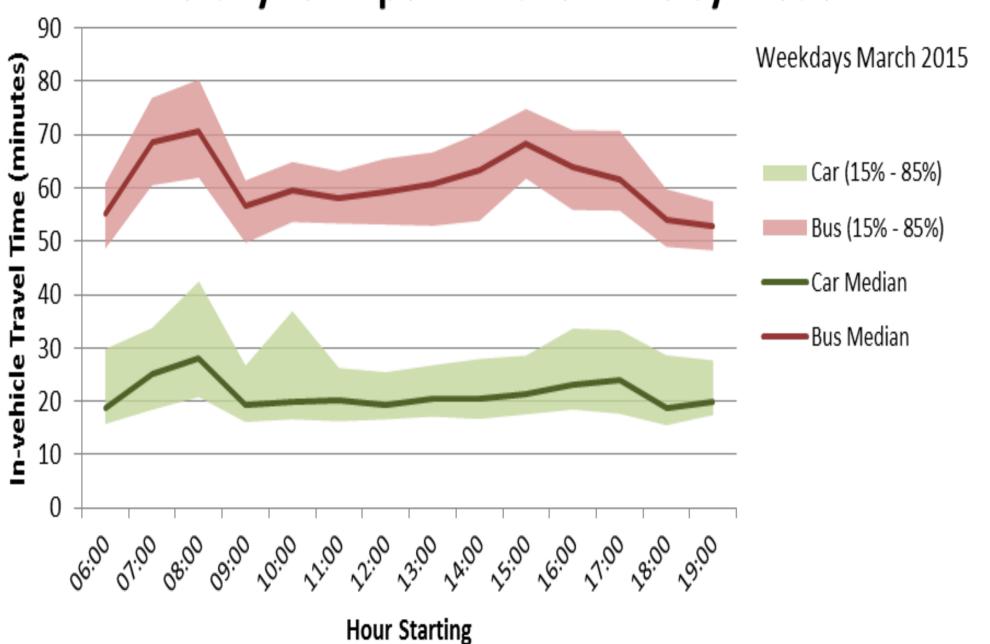




Airport to CBD - Travel Time by Mode

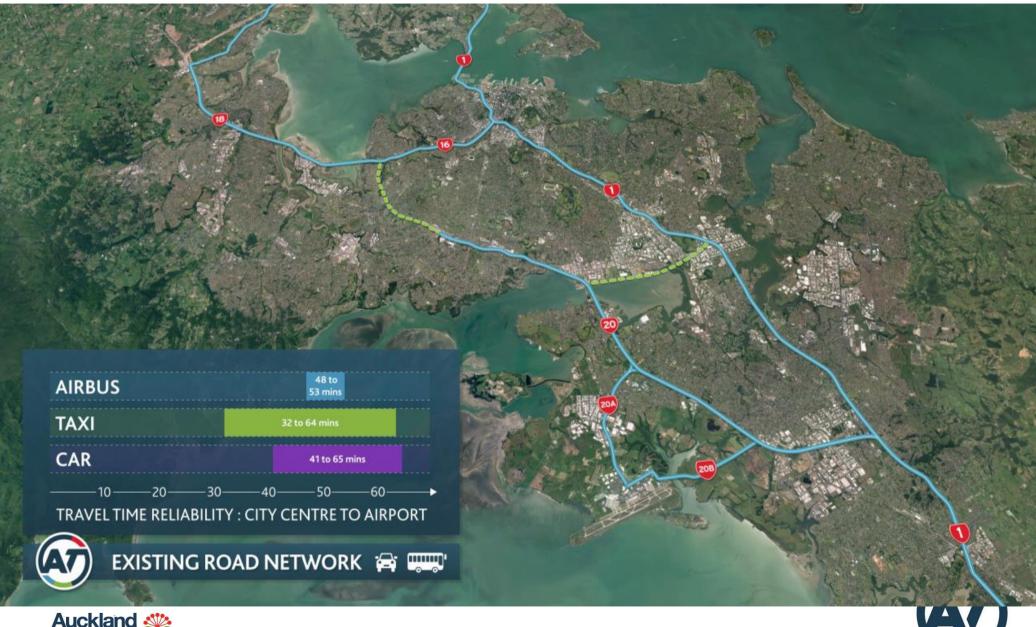


Botany to Airport - Travel Time by Mode









































































ATAP Emerging Phases

Inform Strategy 2015 /16

Funding Tools 2016 /17

Update Strategy 2016 /18

Better Strategic Alignment

Alignment agreed Confirm funding need, agree funding sources and implementation

Agreement reached

- AC Akl. Plan, LTP
- NZTA NLTP, ITP
- AT RLTP, ITP
- MoT GPS, legislation (?)





Major projects

Additional motorway lanes

Penlink **Strategic Transport Network: Northern Busway Extension** Northern Corridor Highv Additional motorway lanes **Upper Harbour Third** nzac Street Kumeu to Brighams Creek 4 laning H18 3rd lane Eastbound Additional Waitemata Harbour Crossing decade lestern Ring North Western Bu **Port Access Improvements** Route

AMETI

East West Connections

Pukekohe ctrification

us RTN

Removal of level crossings Efficiency and resiliency improvements Increased capacity and services

Key

Local road and public transport projects

State highway projects

Light Rail

Heavy Rail network improvements



Papakura-Drury 6 laning

(SH20B)

Additional

EVELOPMENT STRATEGY MAP

with the relevant text in the Auckland Plan development strategy

> Removal of level crossings Third / fourth main (Wiri to Pukekohe)

Arterial improvement

supporting Southern Growth Area

Additional

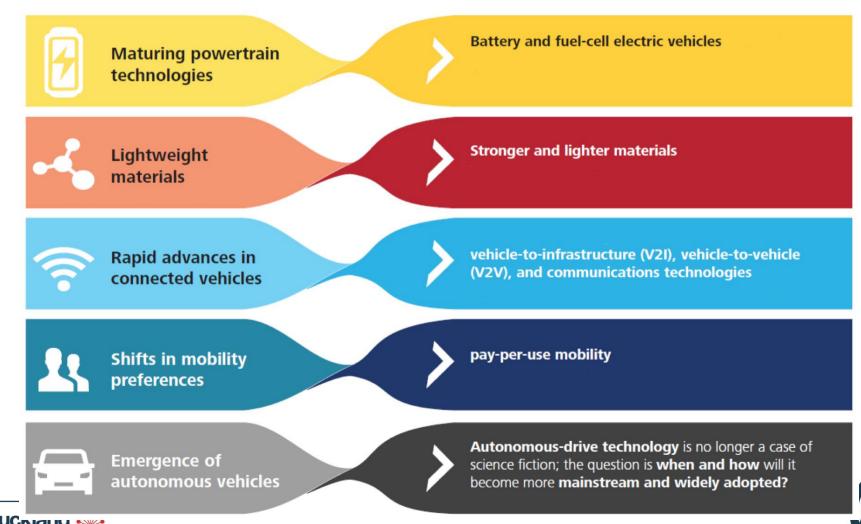
motorway lanes

Efficiency and resiliency improvements Increased capacity and services **Freight efficiency improvements**

(cumulative)



The next wave: transportation and mobility is converging



Transport Source: Scott Corwin, Joe Vitale, Eamonn Kelly, Elizabeth Cathles; The Future of Mobility, 2016, Deloitte LLP

The next wave

The Sharing Economy – Mobility as a

Service

The road map to autonomous vehicles

- Car Share
- Car pooling
- Ridesharing
- Bike share/cycle hire
- Uber
- Passenger transport on demand
- First and last leg linking with PT









ATAP STRATEGY FOR AUCKLAND

- Invest in strategic rapid transit, road and active networks
- Optimise use of existing transport networks
- Remove barriers to new technology and mobility sharing
- Introduce first stage of network pricing
- Deliver infrastructure in growth areas

Decade 1



Thank you.





