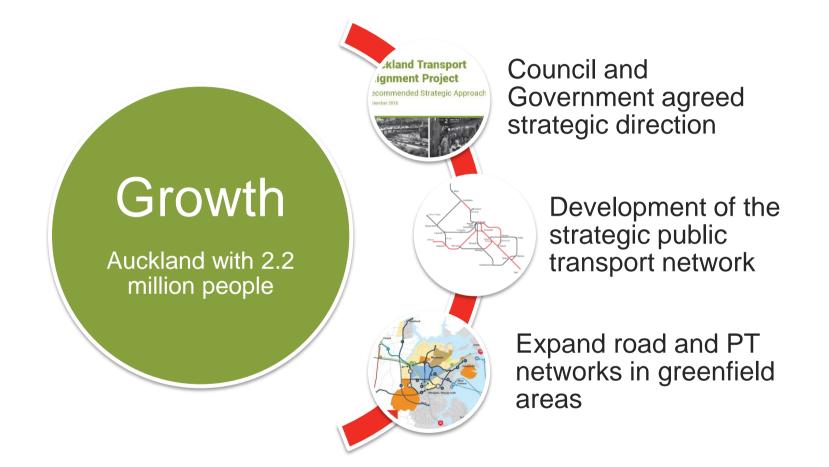
# Auckland Transport

Moving Auckland forward

February 2017

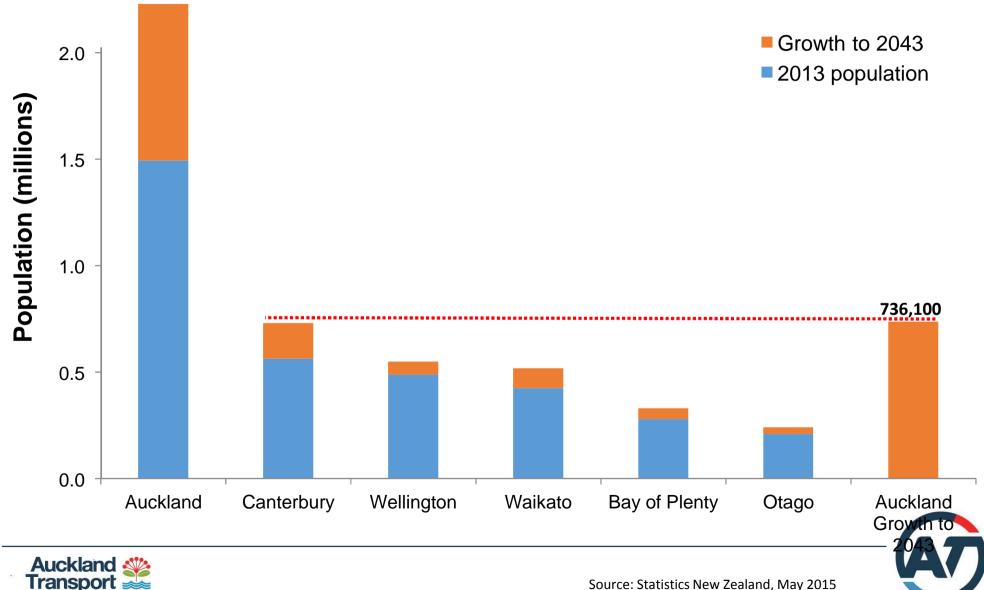


#### Enable and support growth

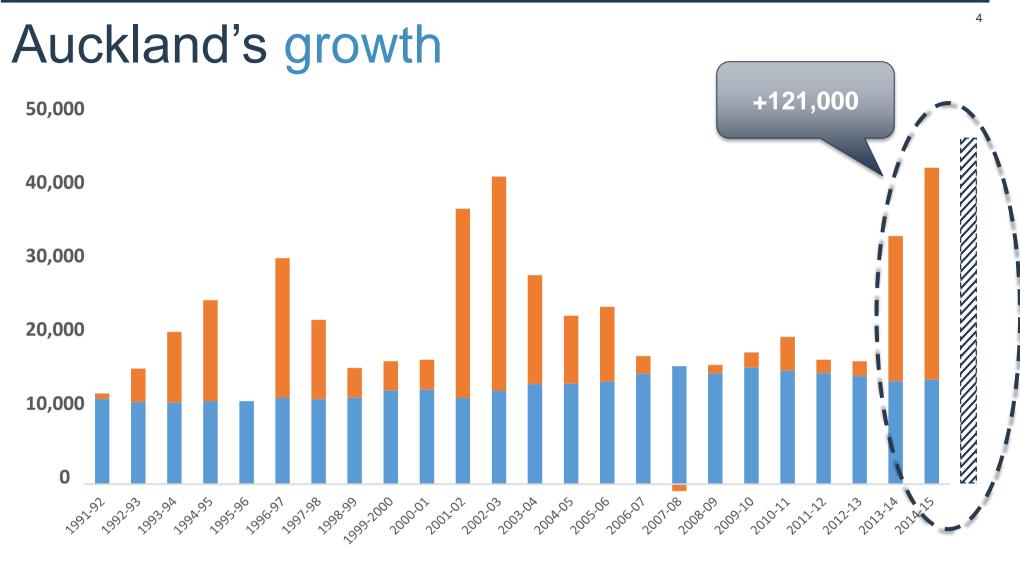








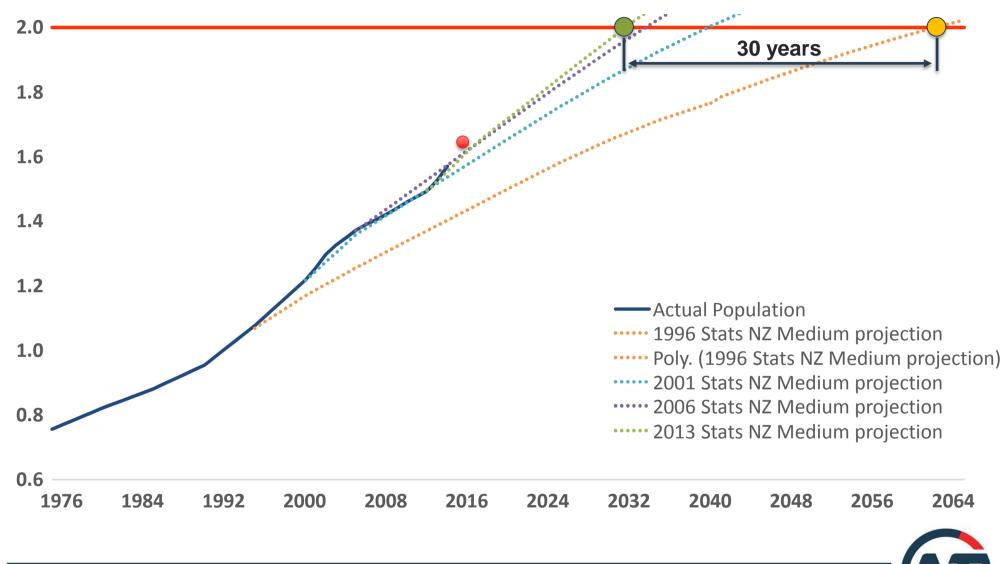
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Natural Increase Estimated Migration

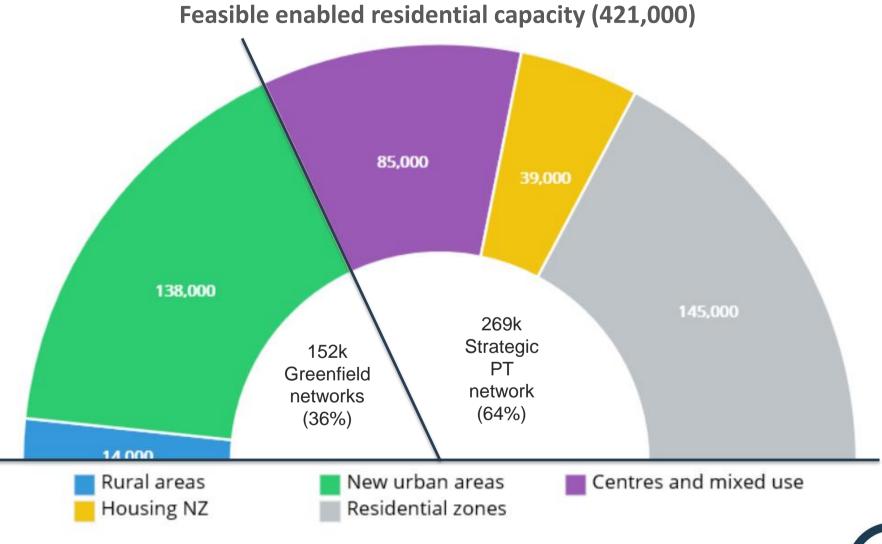






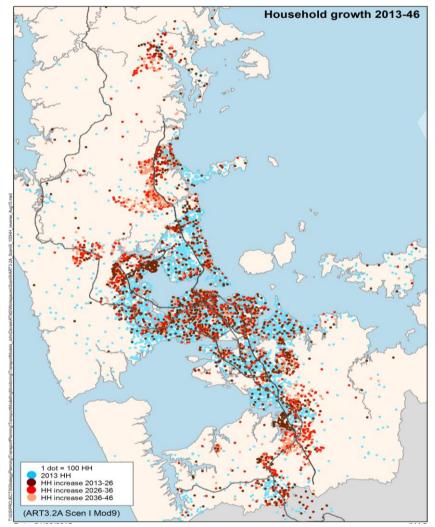


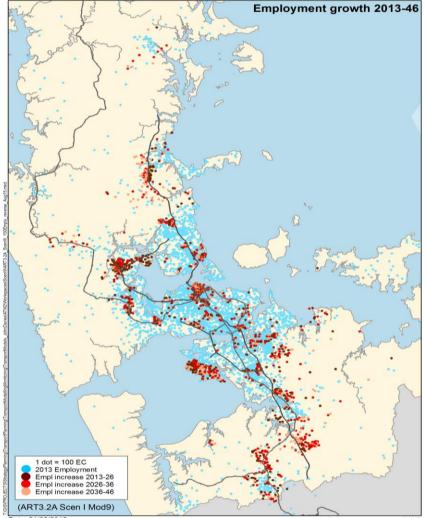
















#### Auckland's growth – trends

Population growth (2013 – 2016)	+121,000 (8.1%)
People employed (2013 – 2016)	+102,000 (13.8%)
Total PT Boardings (2013 – 2016)	+15 million (22%)
Light vehicle fleet (2013 – 2015)	+122,000 (12%)
Vehicle kilometres travelled (2012 – 2015)	+1 billion (10%)
Regional fuel consumption (2013 – 2016)	+123 million (8%)





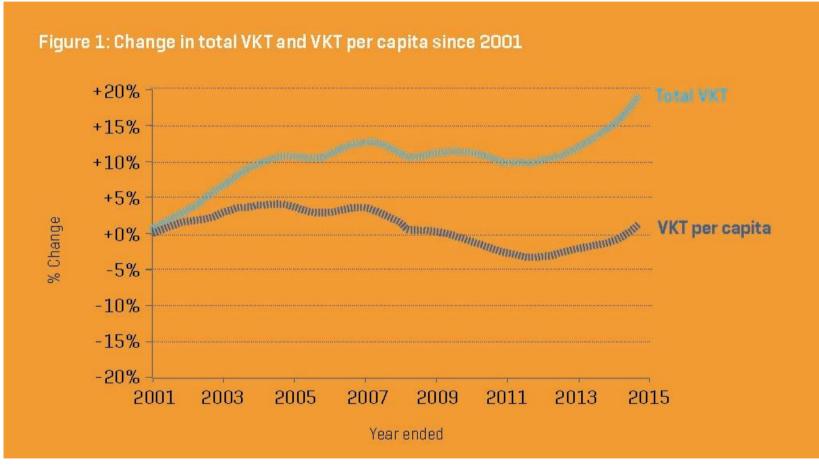


Chart from Draft 2017 GPS (for all New Zealand)





#### Auckland's transport challenges

- How to support faster rate of housing growth
- How to prevent a decline in access to jobs (west and south)
- How to slow the increase in congestion on the motorway (peak and other times)
- How to increasing public transport mode share, particularly along high volume, congested corridors.



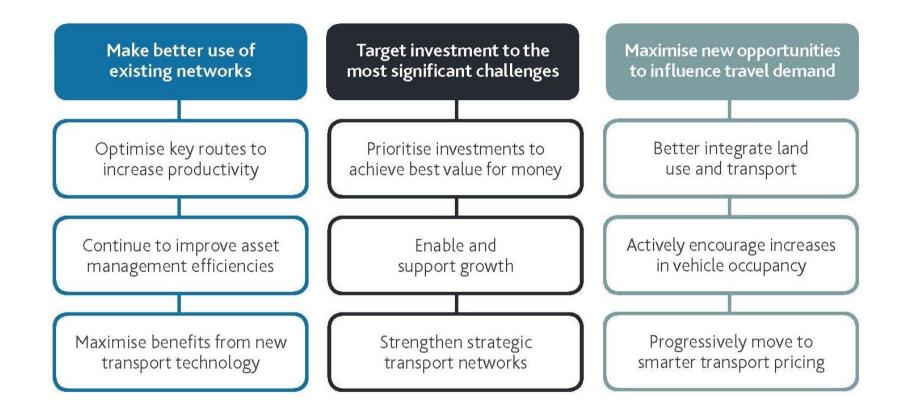




Council and Government agreed strategic direction

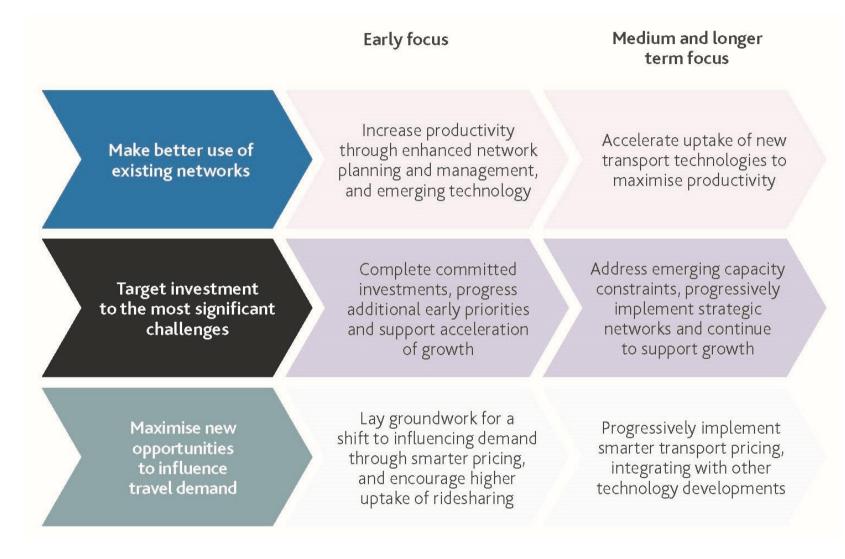






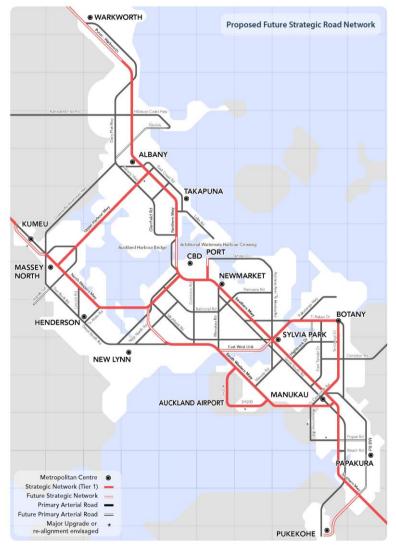








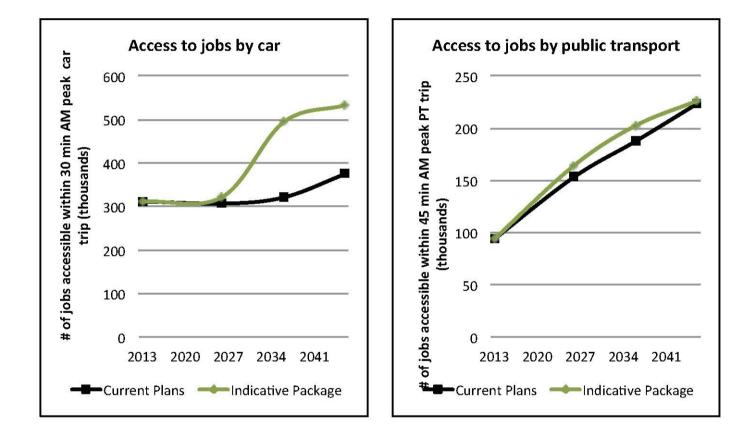






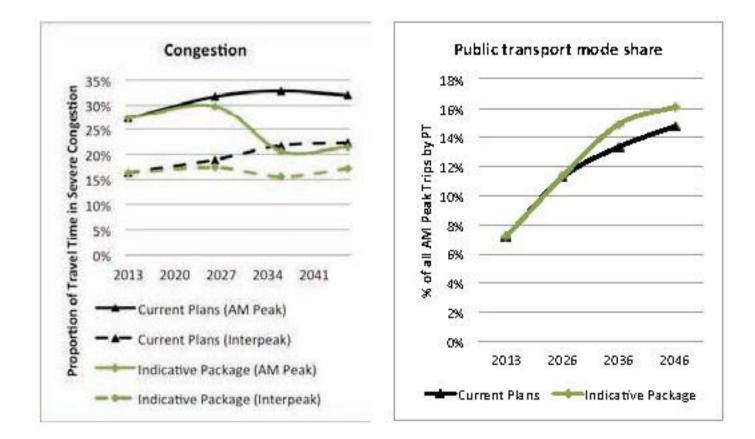






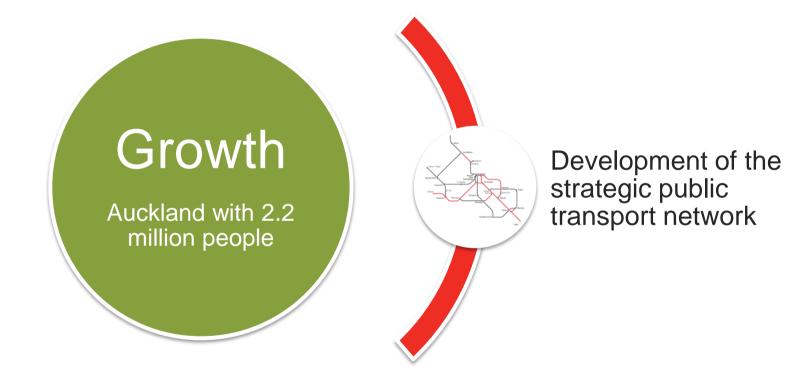






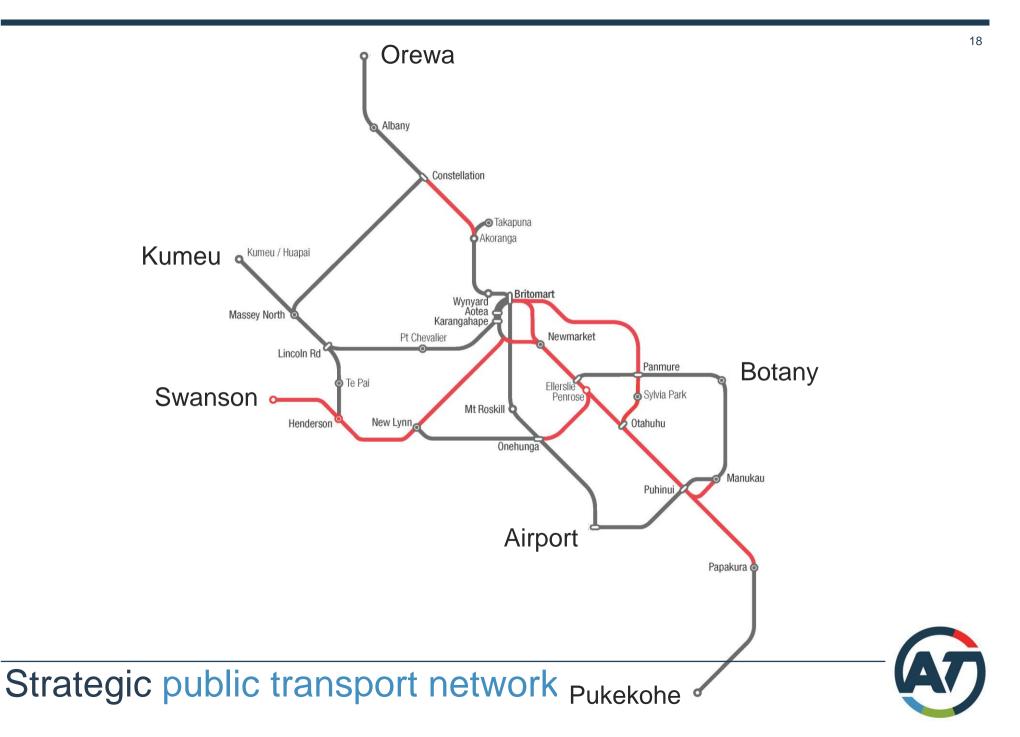


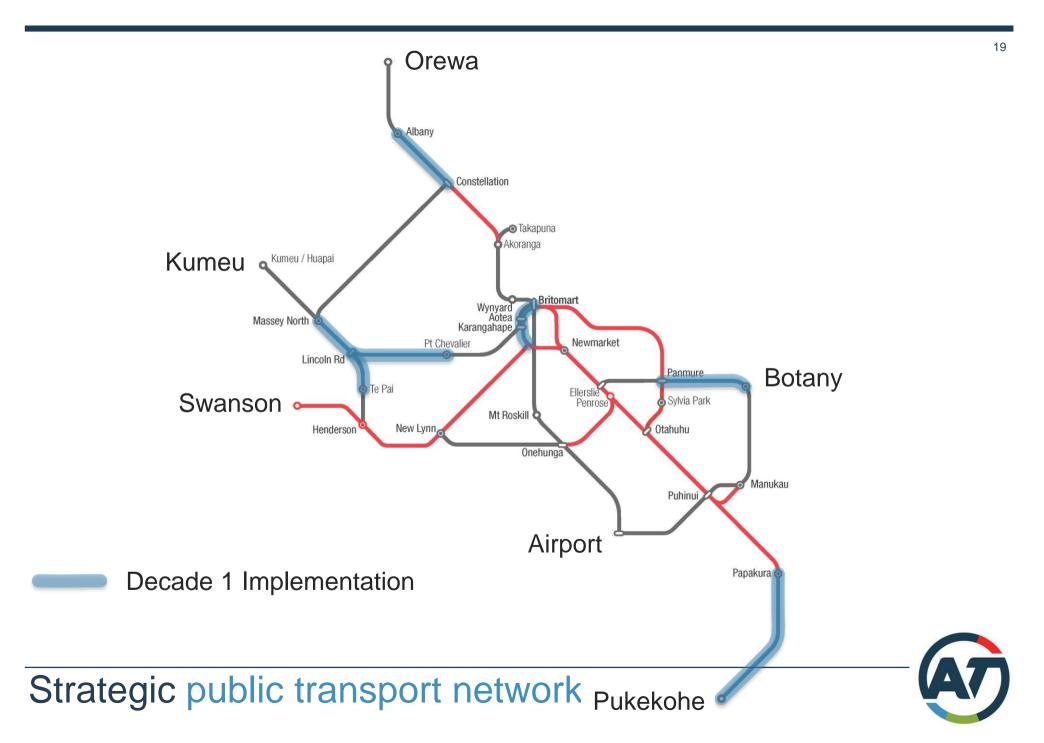


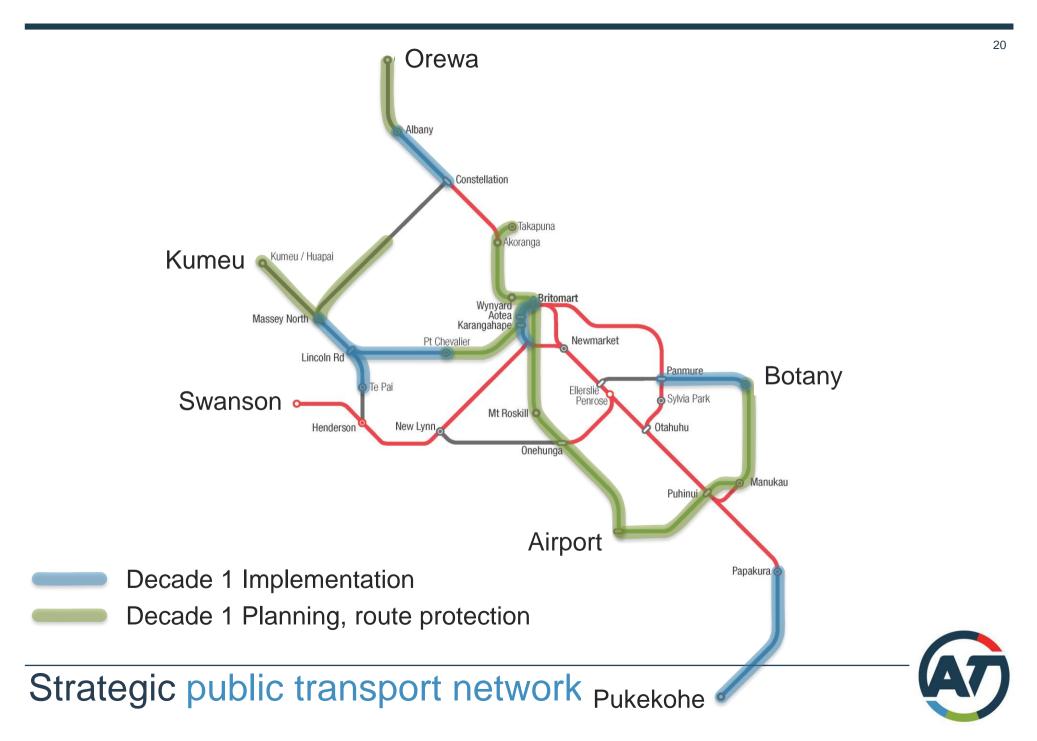


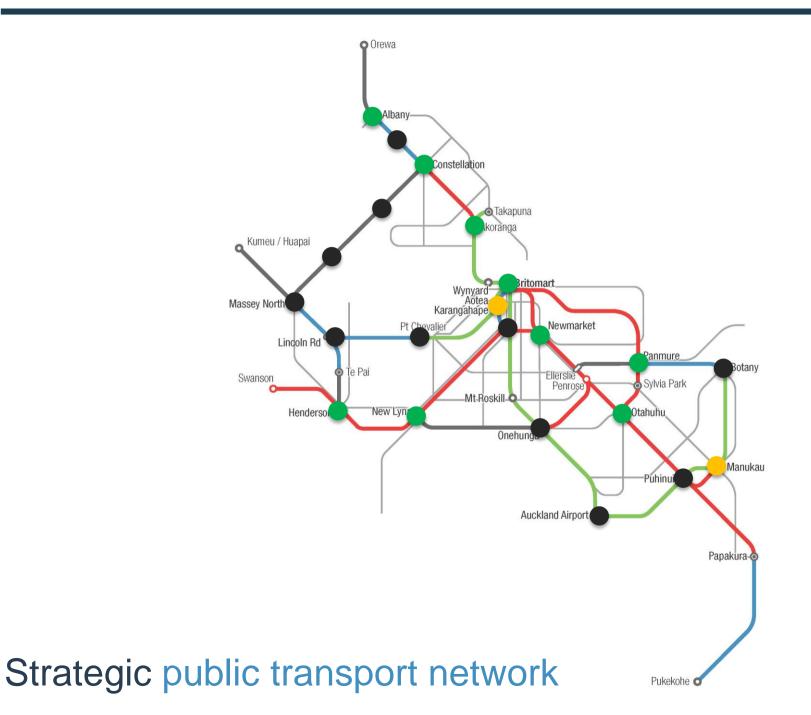












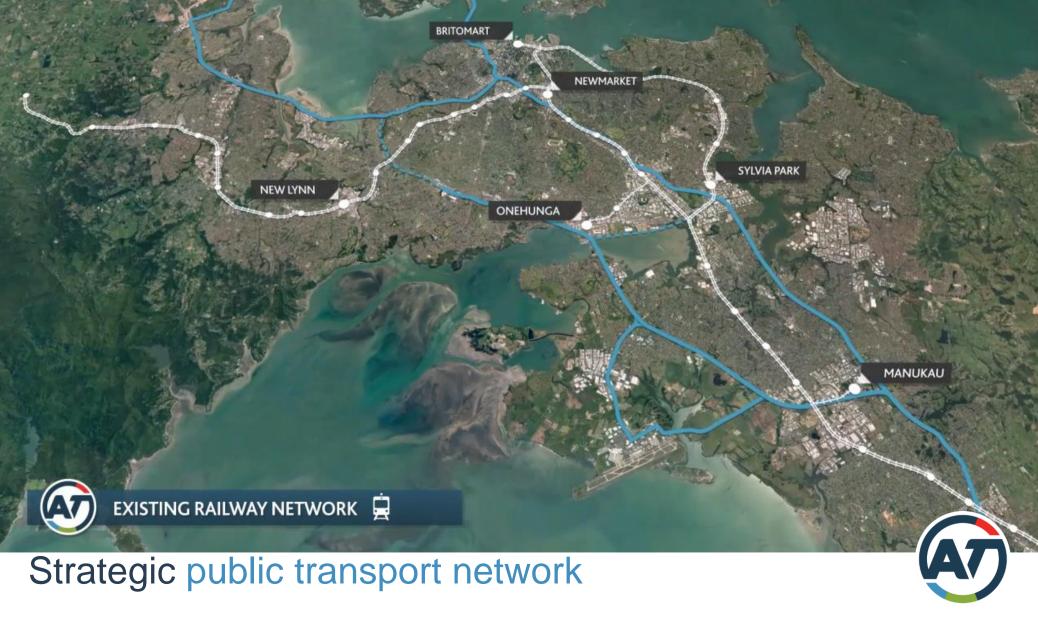


## Enabling easy connections

#### Strategic public transport network



#### Enabling easy connections



### Key highlights 2016



84.8 million boardings on PT network (+3.9%)

- 60.6 million on bus (0.2%)
- 18.1 million on rail (+17.8%)
- 6 million on ferry (5.6%)

32.4 million boardings on the rapid and frequent network

Approximately 1,200 buses in the fleet

#### Strategic public transport network



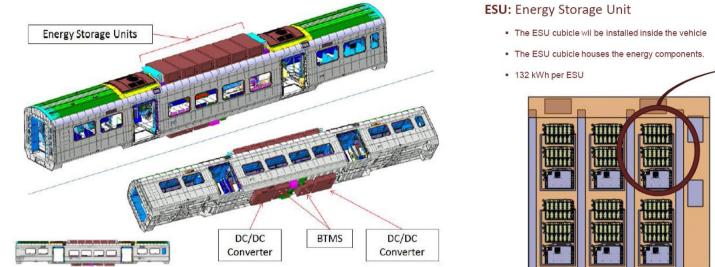
#### Electric buses: trial



#### Strategic public transport network

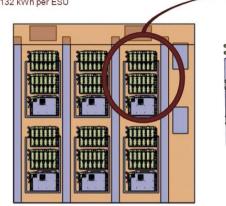


## Independently powered EMU



- Papakura to Pukekohe? .
- Restrict to 70 km/h (key trade-off mixture of energy and power)
- Order time 1 3 years
- Concept phase only some international trials.

#### Strategic public transport network





26

- 6 energy branches per ESU. Each branch 22 kWh Liquid cooled
- Each branch is composed of:
  - 20 energy modules
  - Control electronics
- Electro-mechanical structure







#### The Auckland Unitary Plan identifies

# over 15,000 hectares

of land as

## future urban

(potential to accommodate 150,000 dwellings)

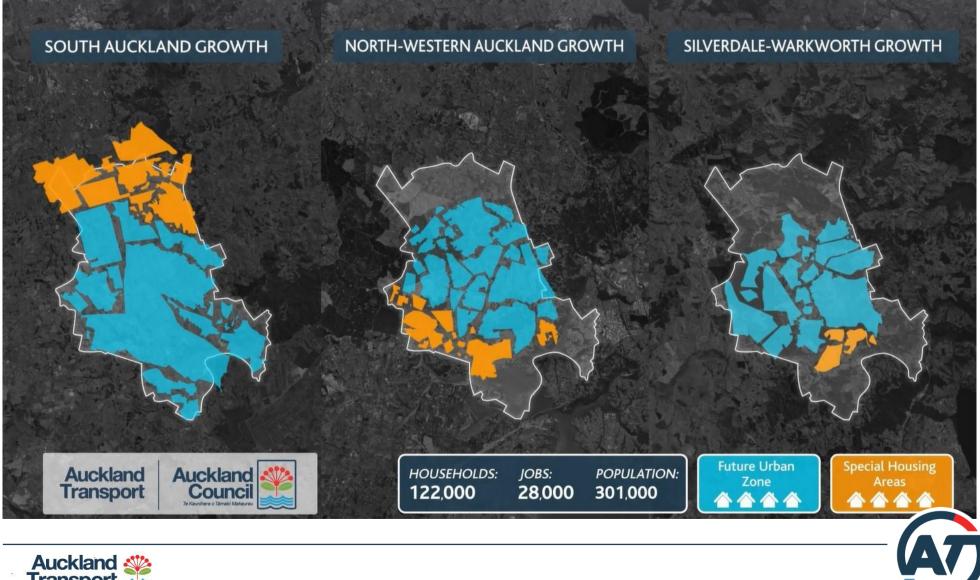




# Expand networks in greenfield areas

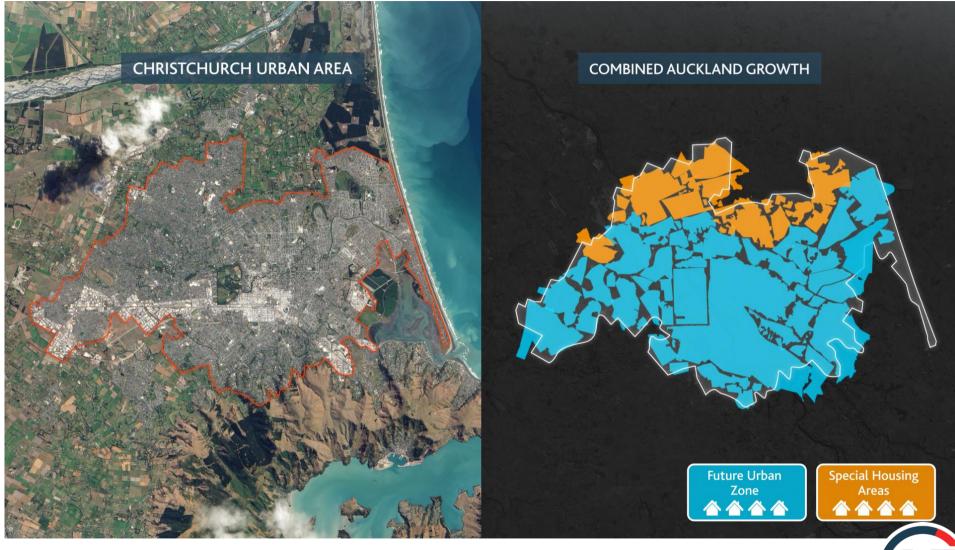


### Expand networks in greenfield areas



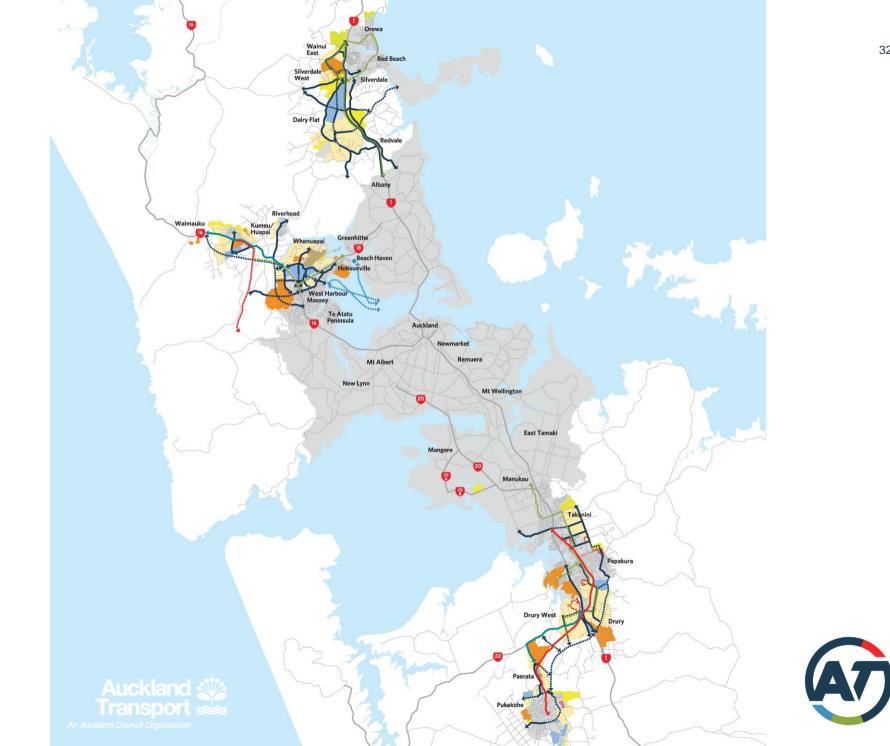
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### Expand networks in greenfield areas

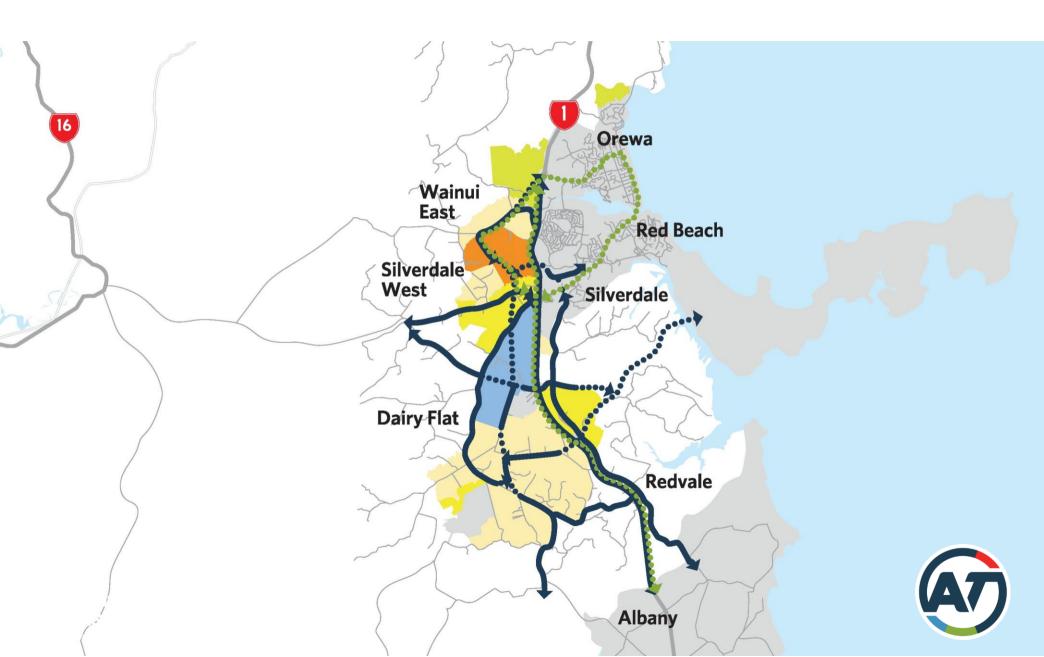




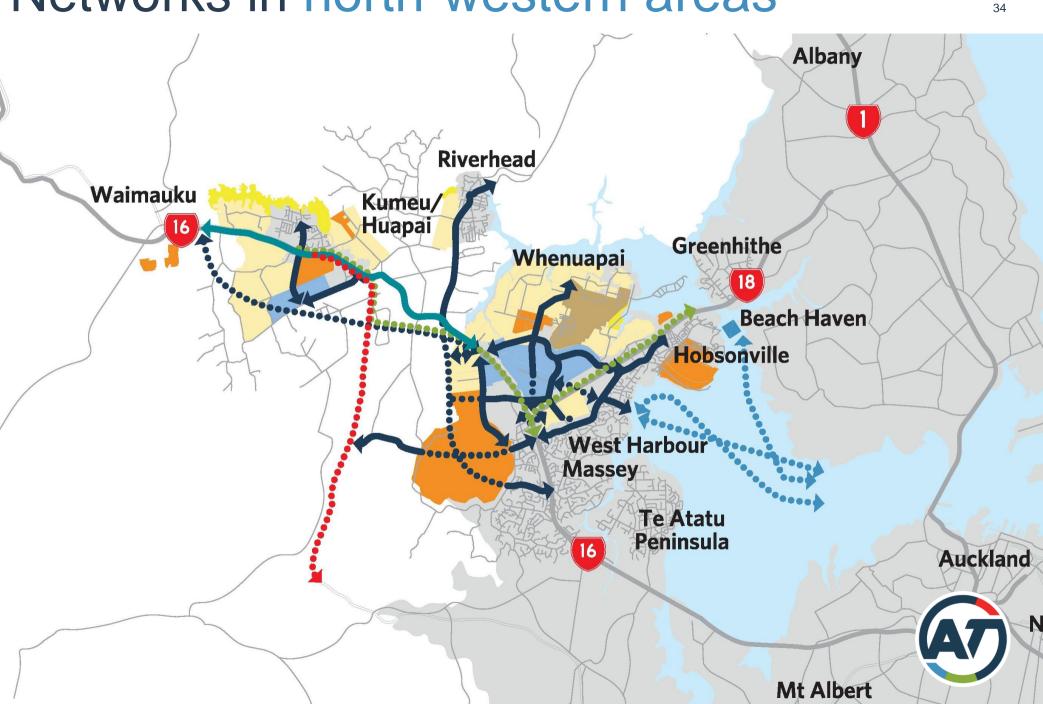




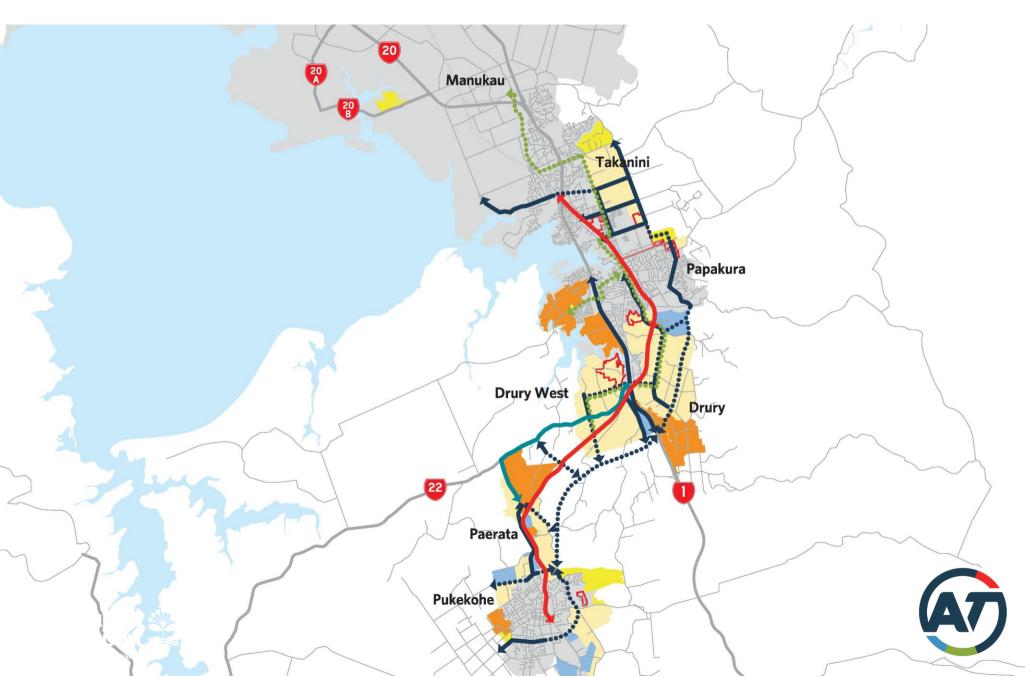
#### Networks in northern greenfield areas



#### Networks in north-western areas



#### Networks in southern greenfield areas



# Next priorities in transport infrastructure for Auckland

# Growth

Auckland with 2.2 million people

kland Transport

ecommended Strategic Approach

Council and Government agreed strategic direction

Development of the strategic public transport network

Expand road and PT networks in greenfield areas





# Thank you.



