

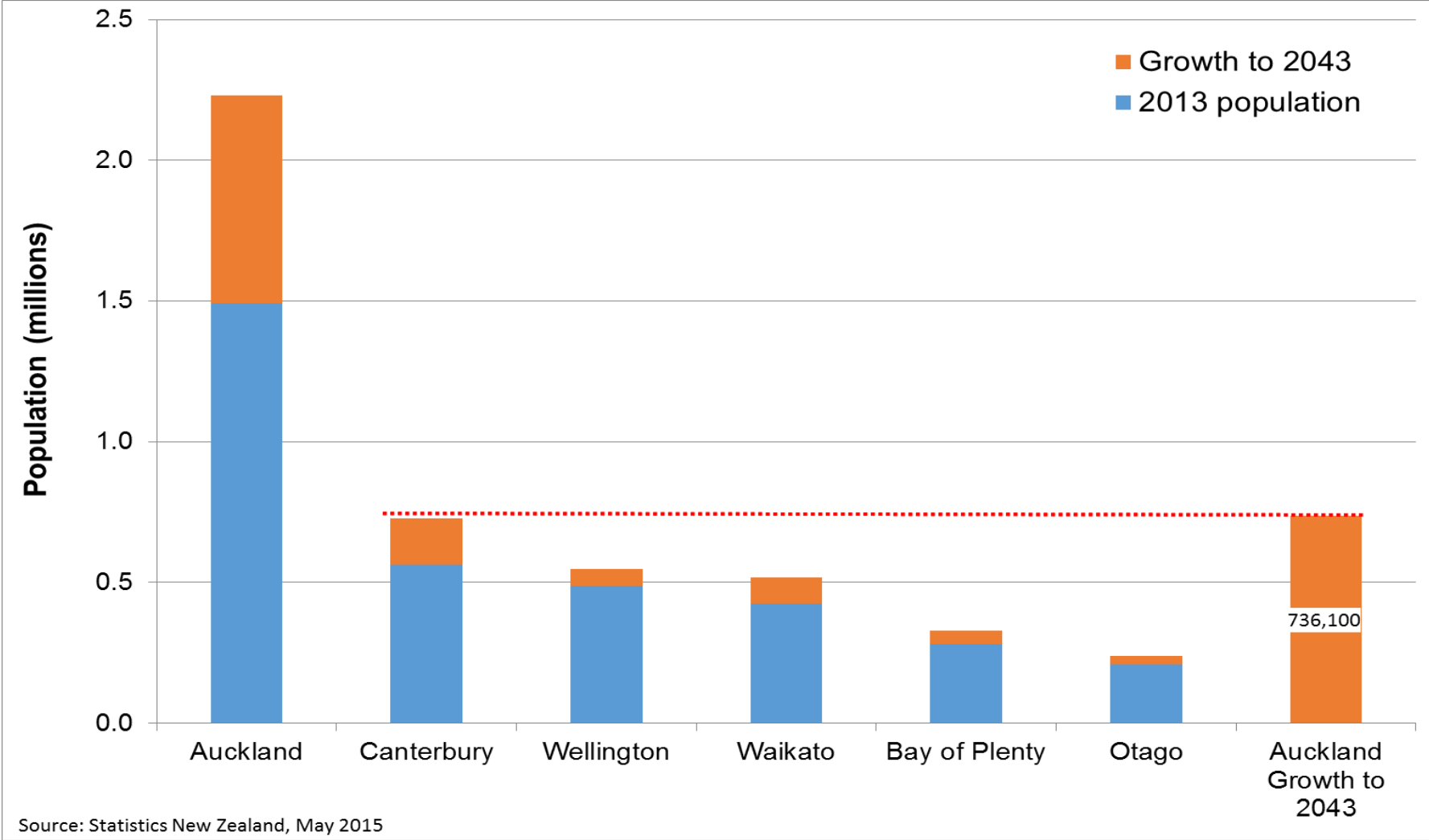
Auckland Transport

Smarter, Integrated Transport Networks

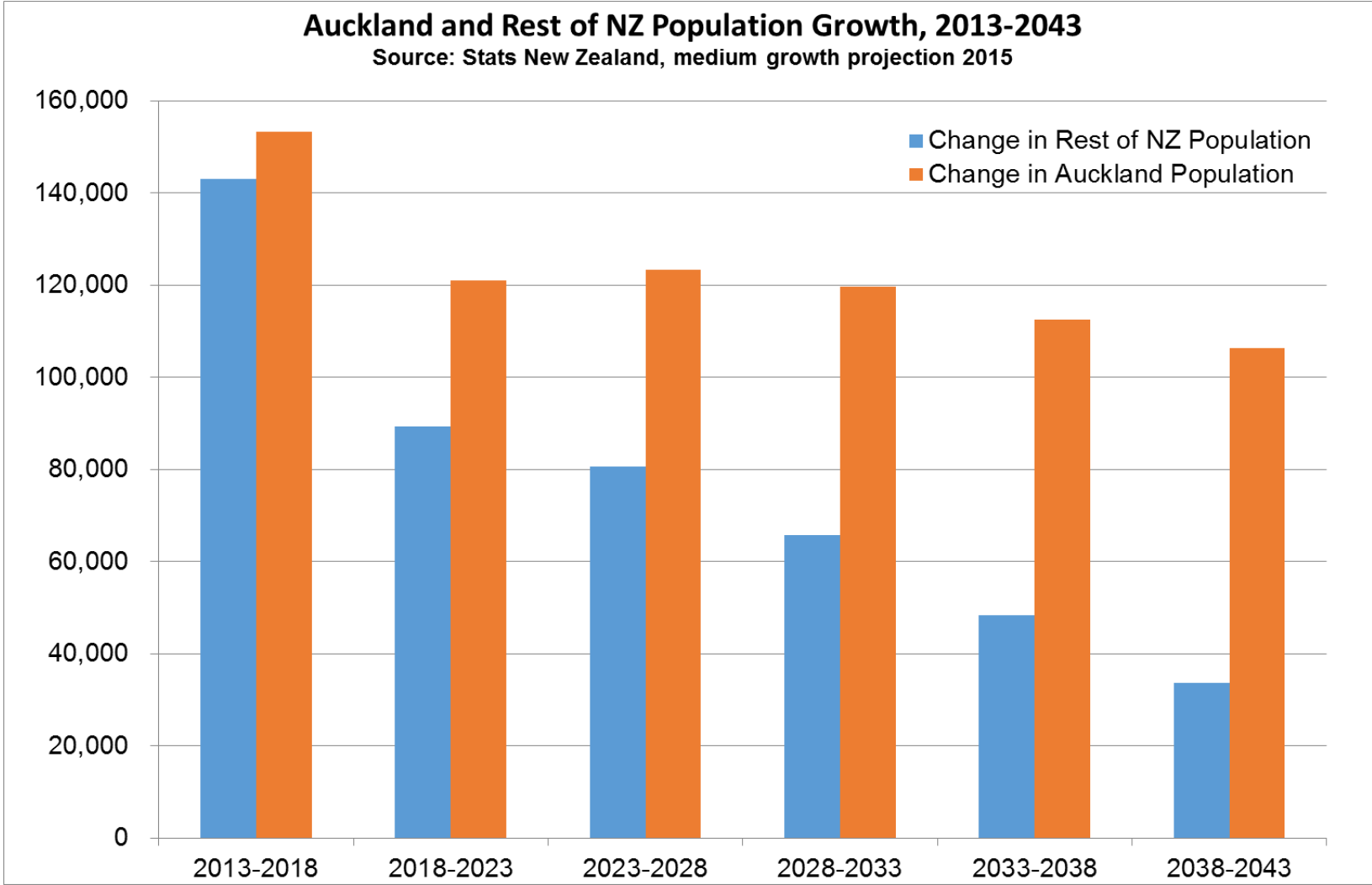
March 2016



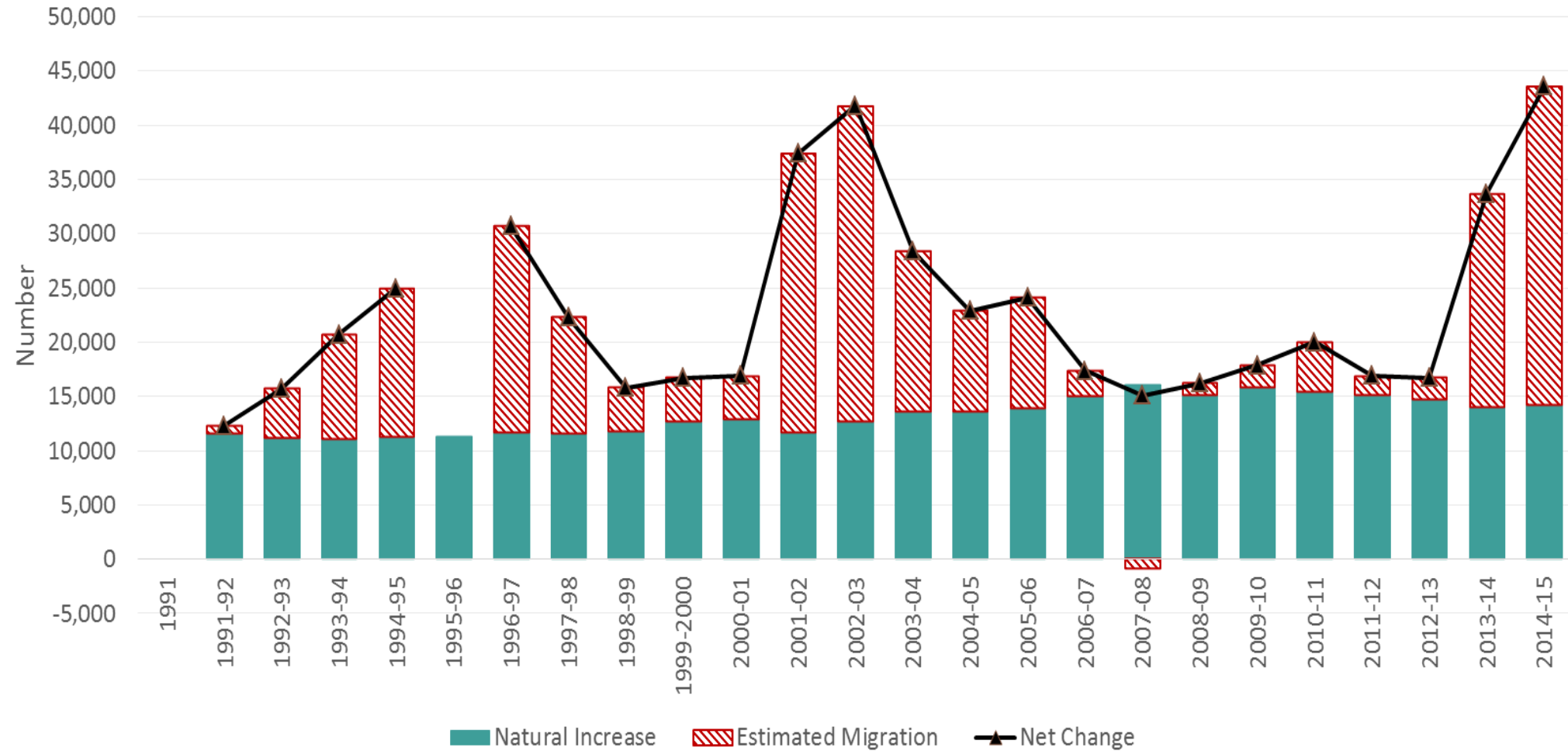
Regional growth



Regional growth



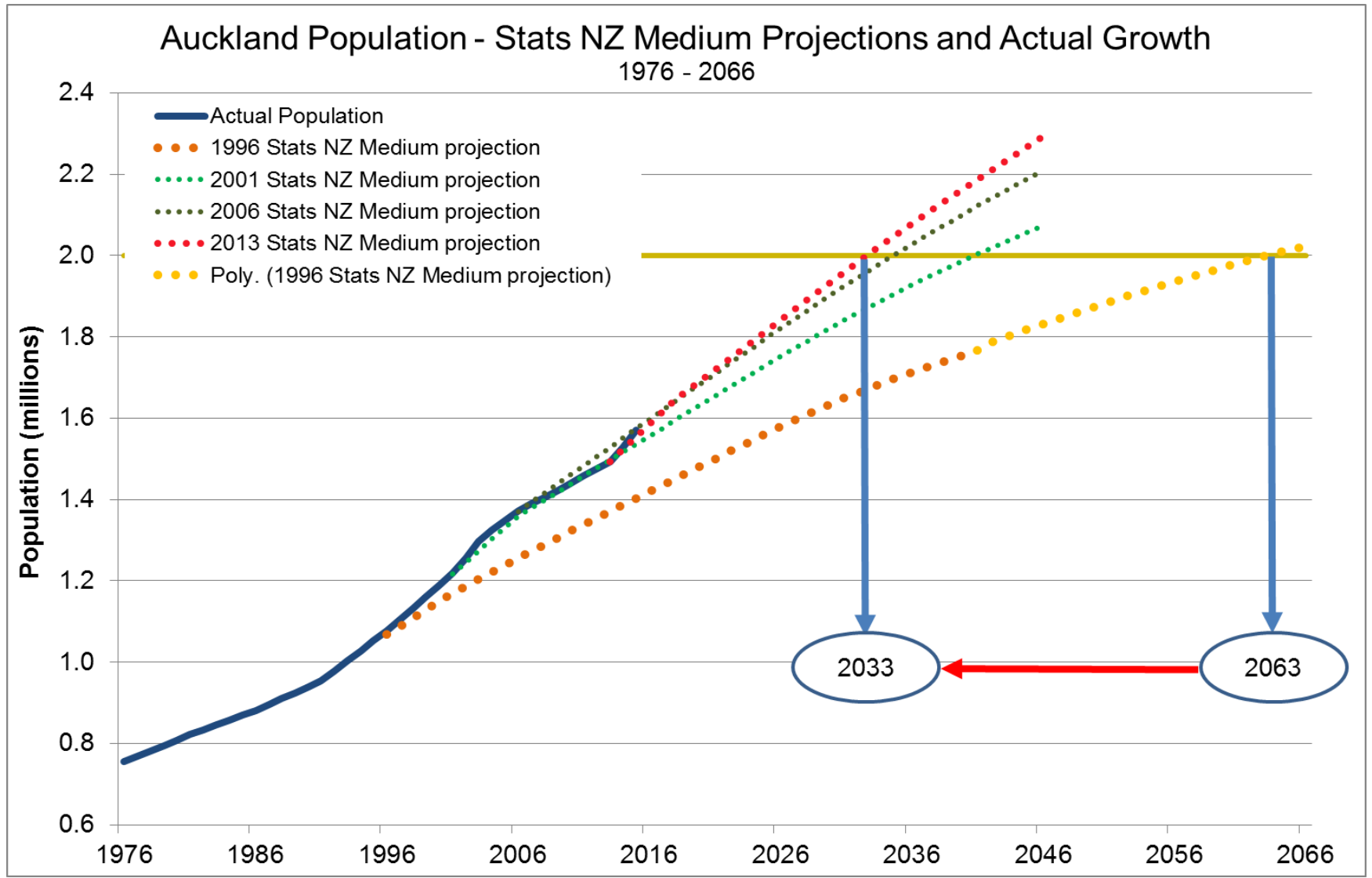
Growth *cont...*



Source: Jackson & Pawar/Compiled 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)



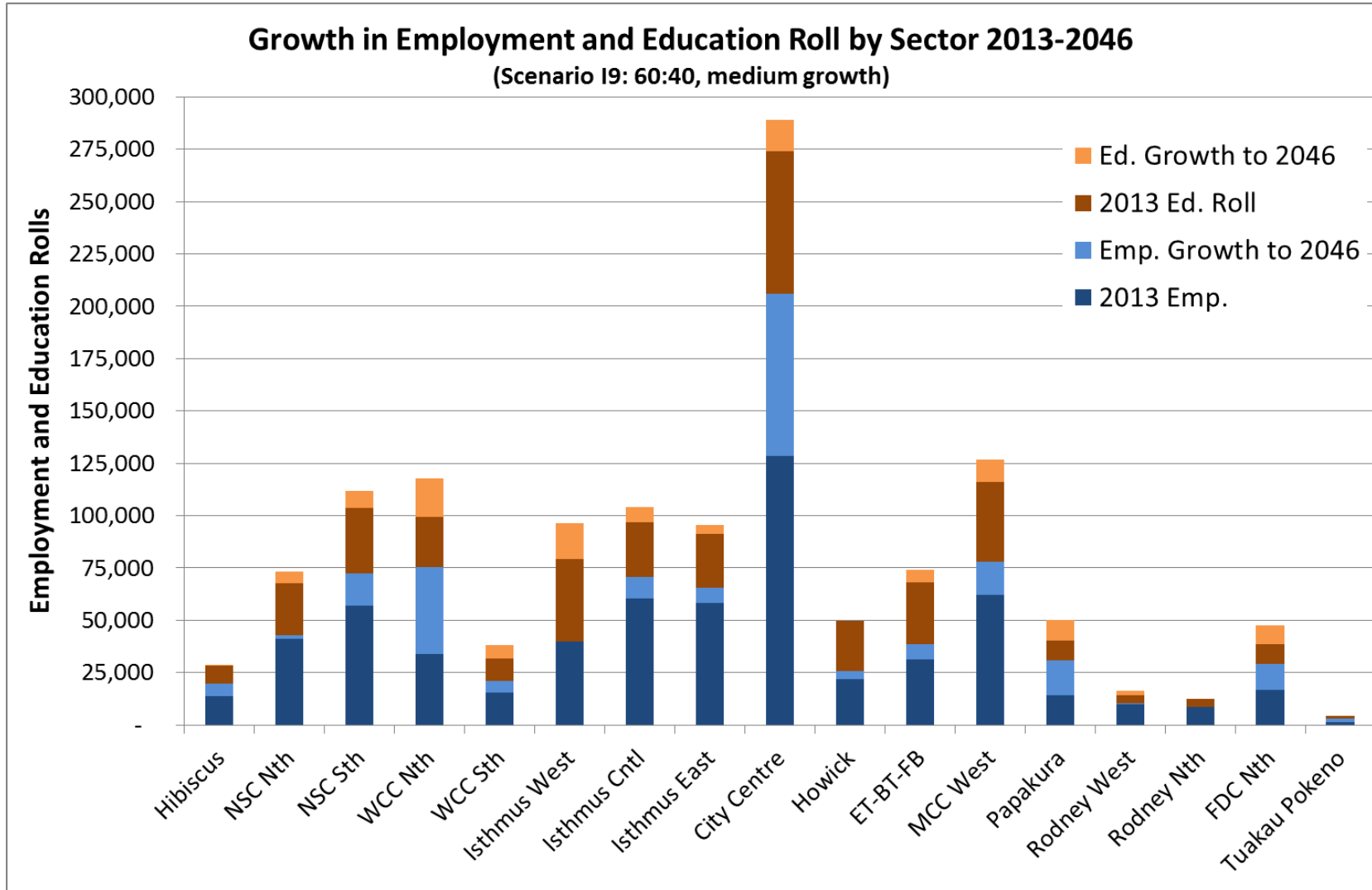
Growth *cont...*



Growth *cont...*



Growth *cont...*



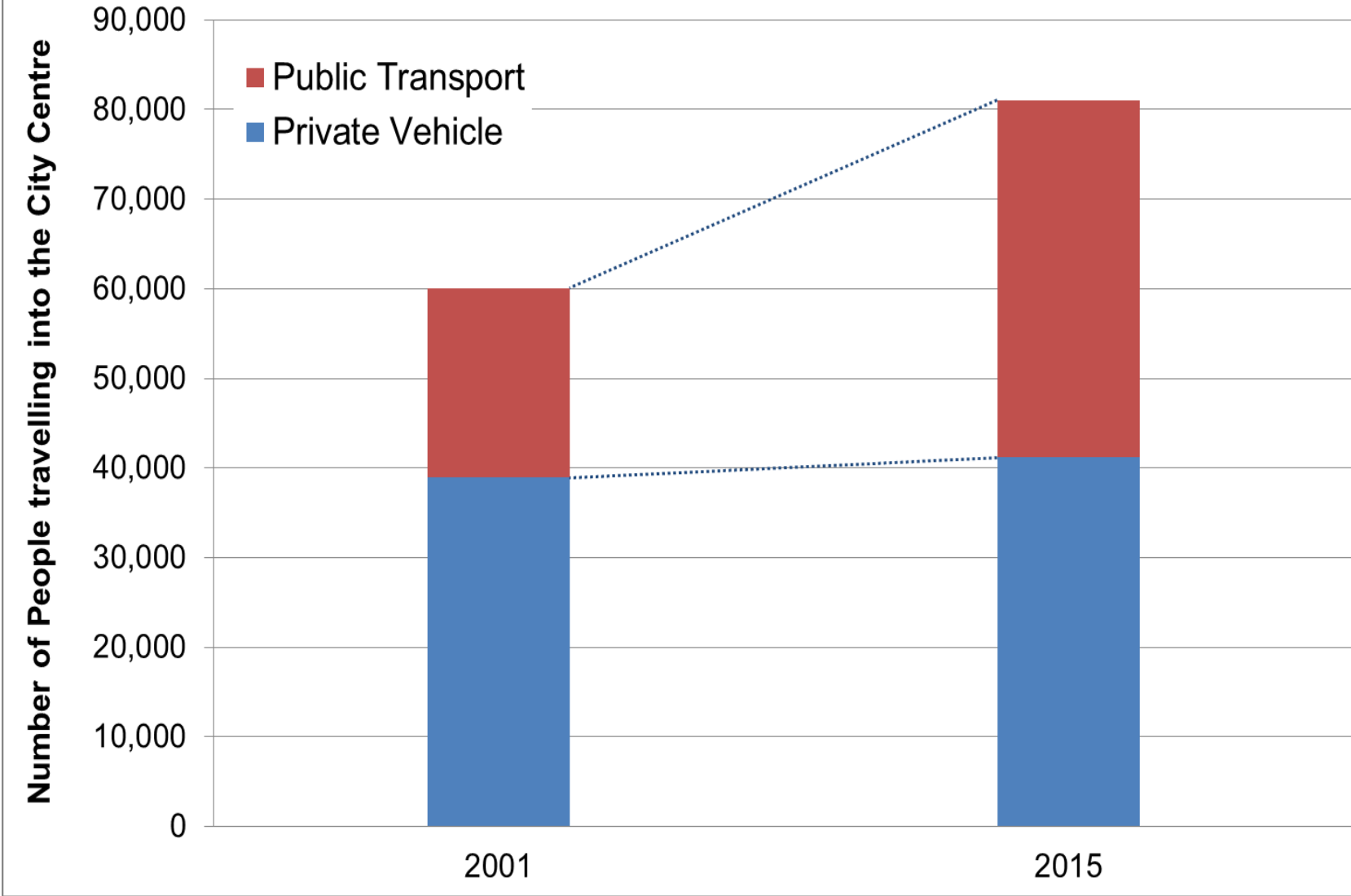


Public transport

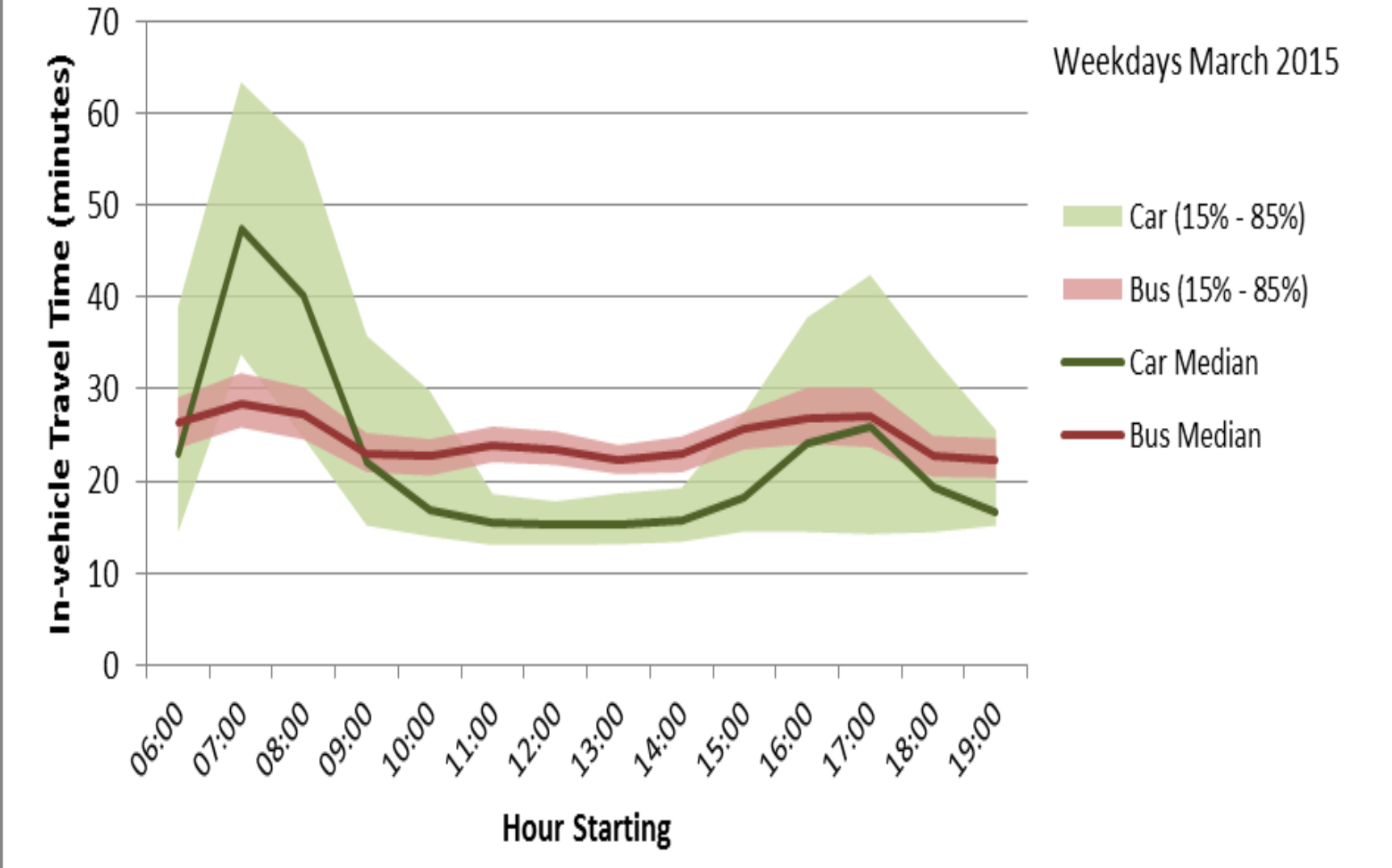
- Significant tool for reducing congestion – but not silver bullet
- PT growth faster than population
- PT expenditure more than balanced by expenditure in other areas
- Key is reliability of travel time



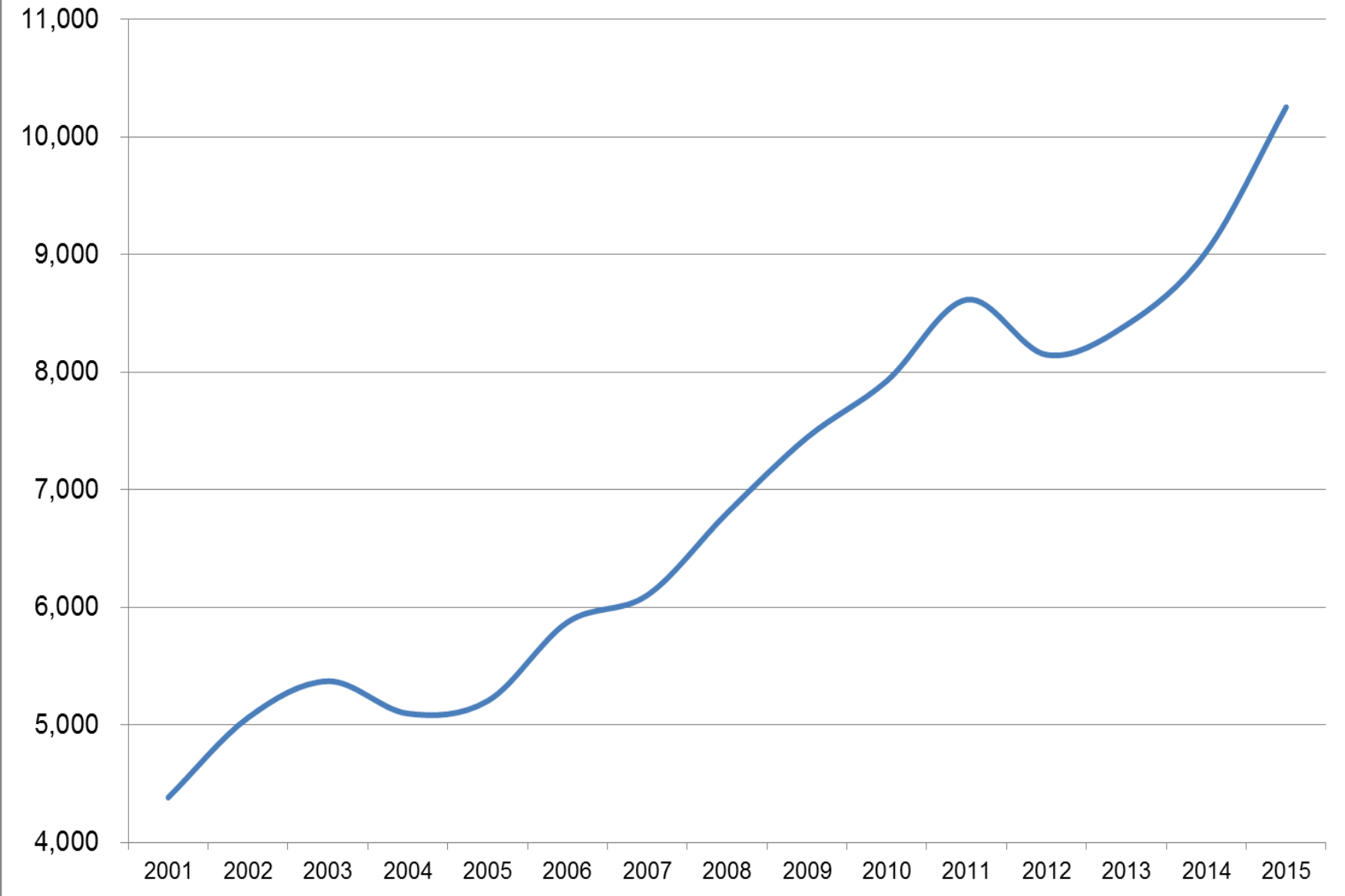
People Entering The City Centre by Car and PT: 2001-2015 (Morning Peak Period, 7am-9am)



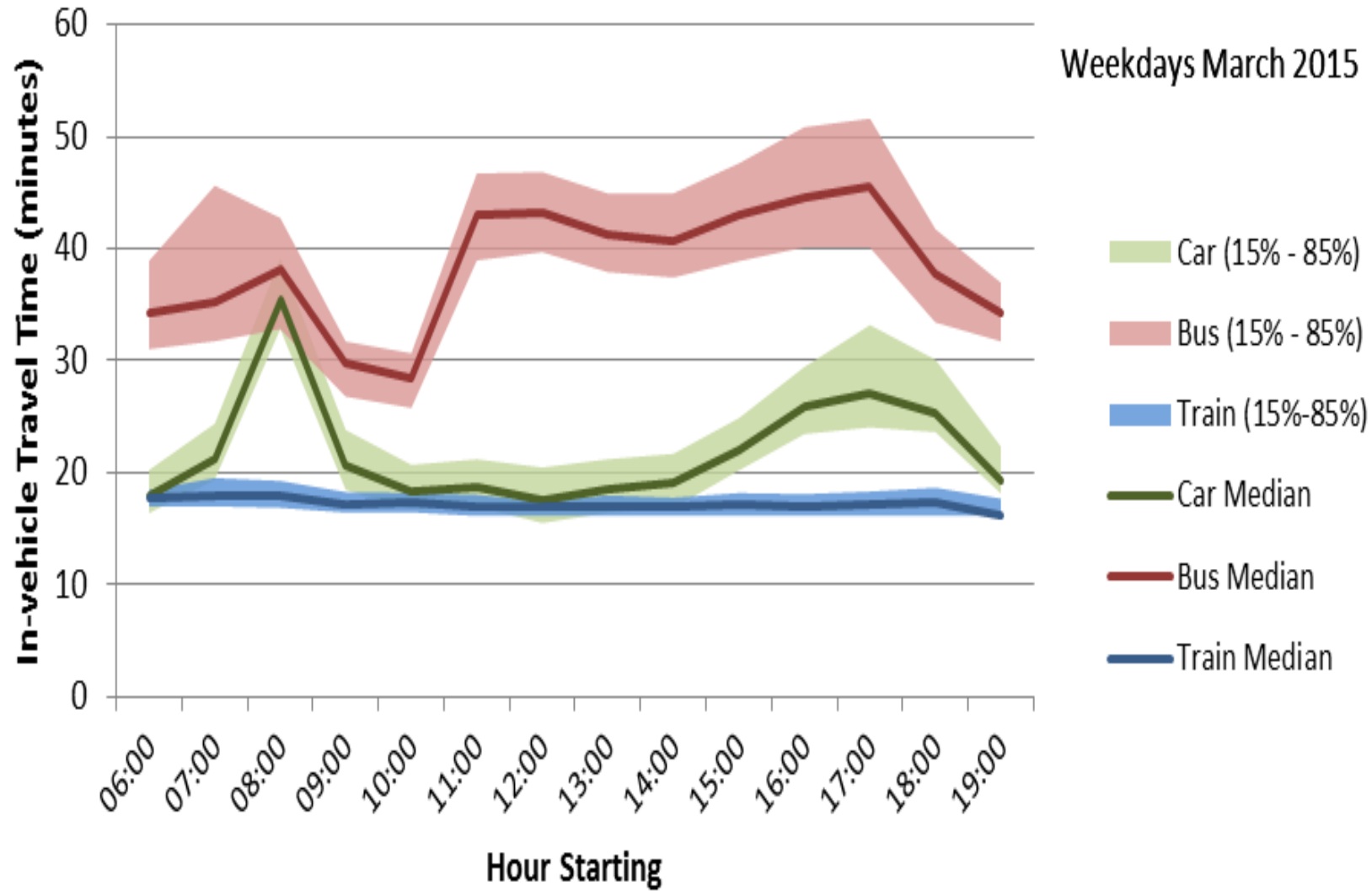
Albany to CBD - Travel Time by Mode



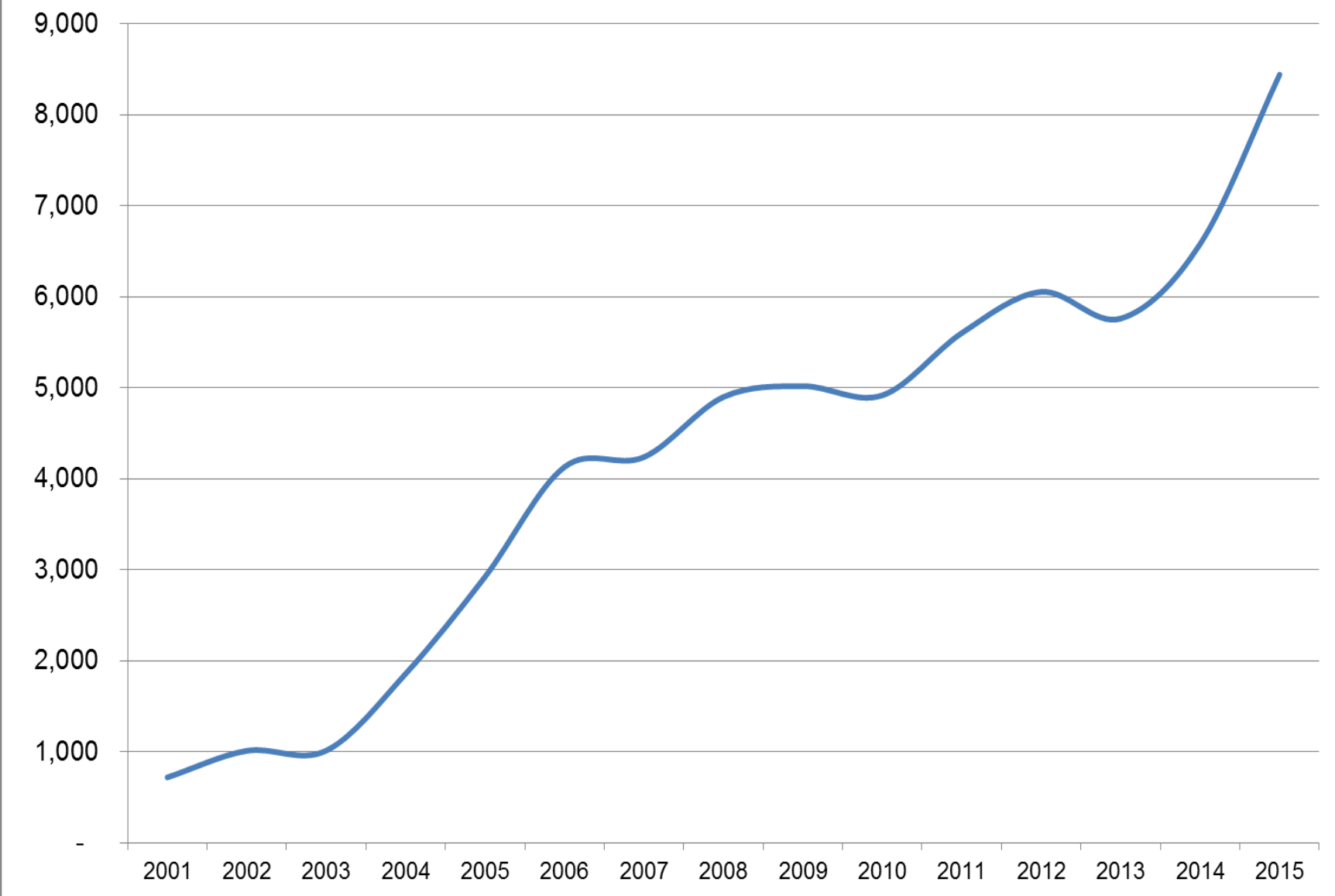
N Busway Patronage into City Centre, Morning Peak Period, 2001-2015



Panmure to CBD - Travel Time by Mode



Rail Patronage into City Centre, Morning Peak Period, 2001-2015



Rapid transport network

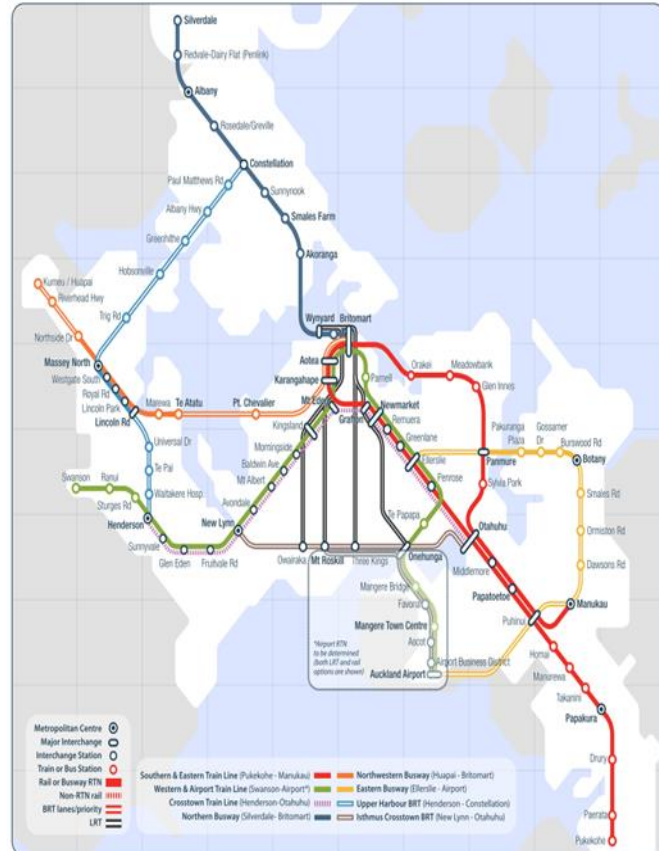
Today



2025



2045



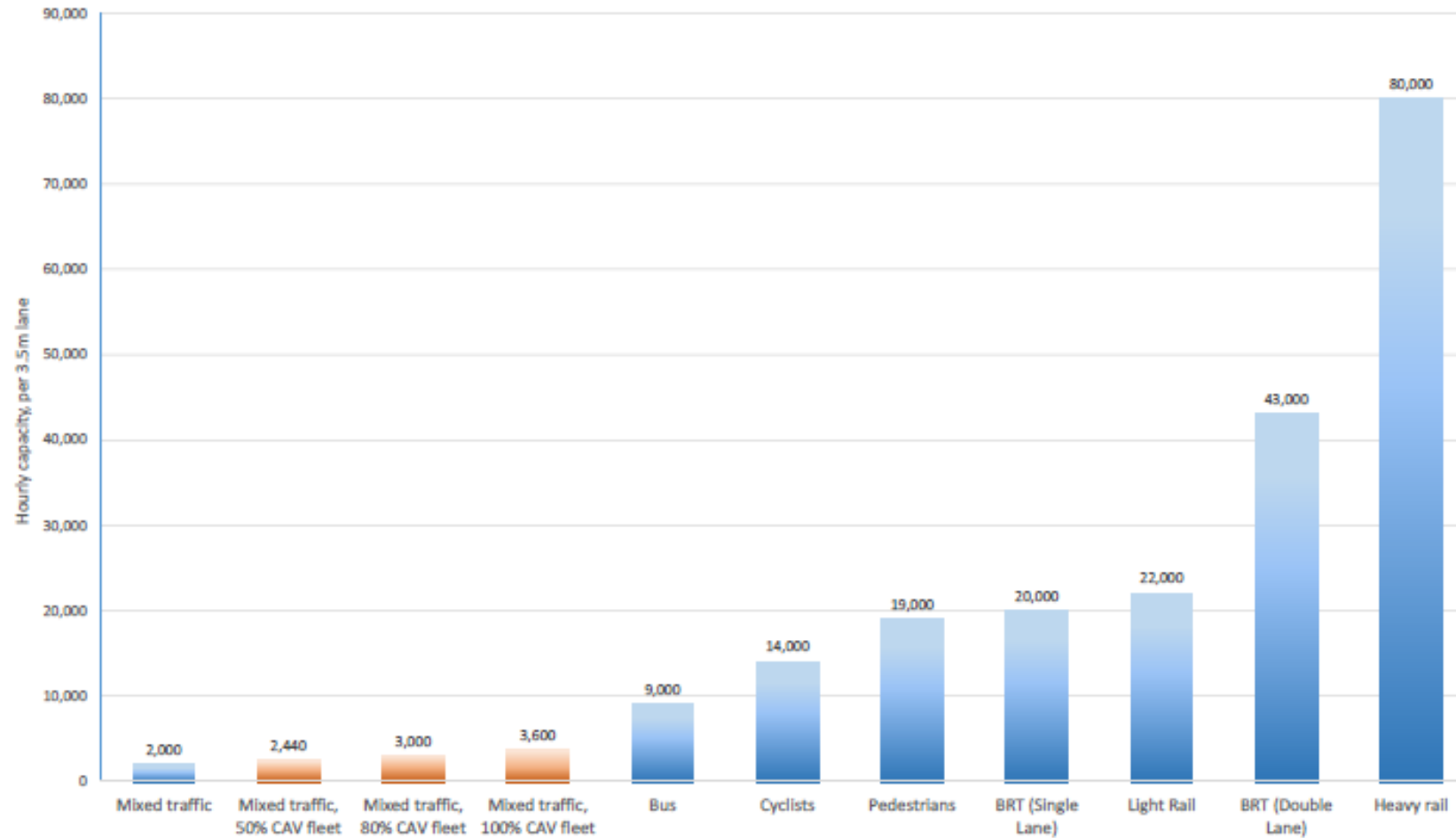
Autonomous vehicle benefits

- **Efficient use of infrastructure**
 - Reconfiguration of road space, dynamic lane reversal
 - Shift to car sharing, reduce total fleet requirements
 - Reduced labour costs
 - Reduced parking
 - Platooning
- **Safety**
 - Lane keeping
 - Adaptive cruise control
 - Blind spot assist
- **Environmental**
 - Fuel economy
 - Reduced emissions
- **Accessible and flexible services**
 - Non drivers (elderly, disabled, children)
 - Delivery and monitoring services



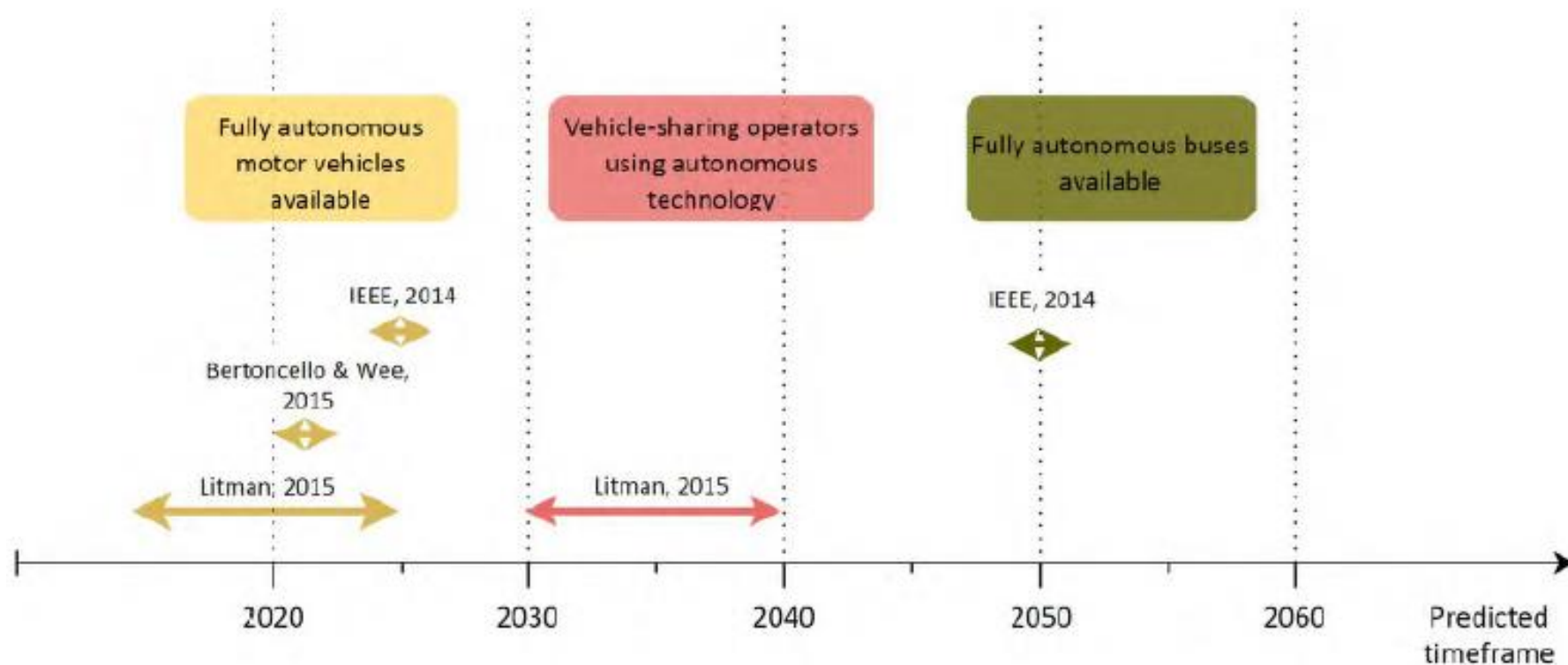
Mode capacities

FIGURE 7 - LANE CAPACITY OF TRANSPORT MODES (ASIAN DEVELOPMENT BANK, 2011) (SHLADOVER, SU, & LU, 2012)



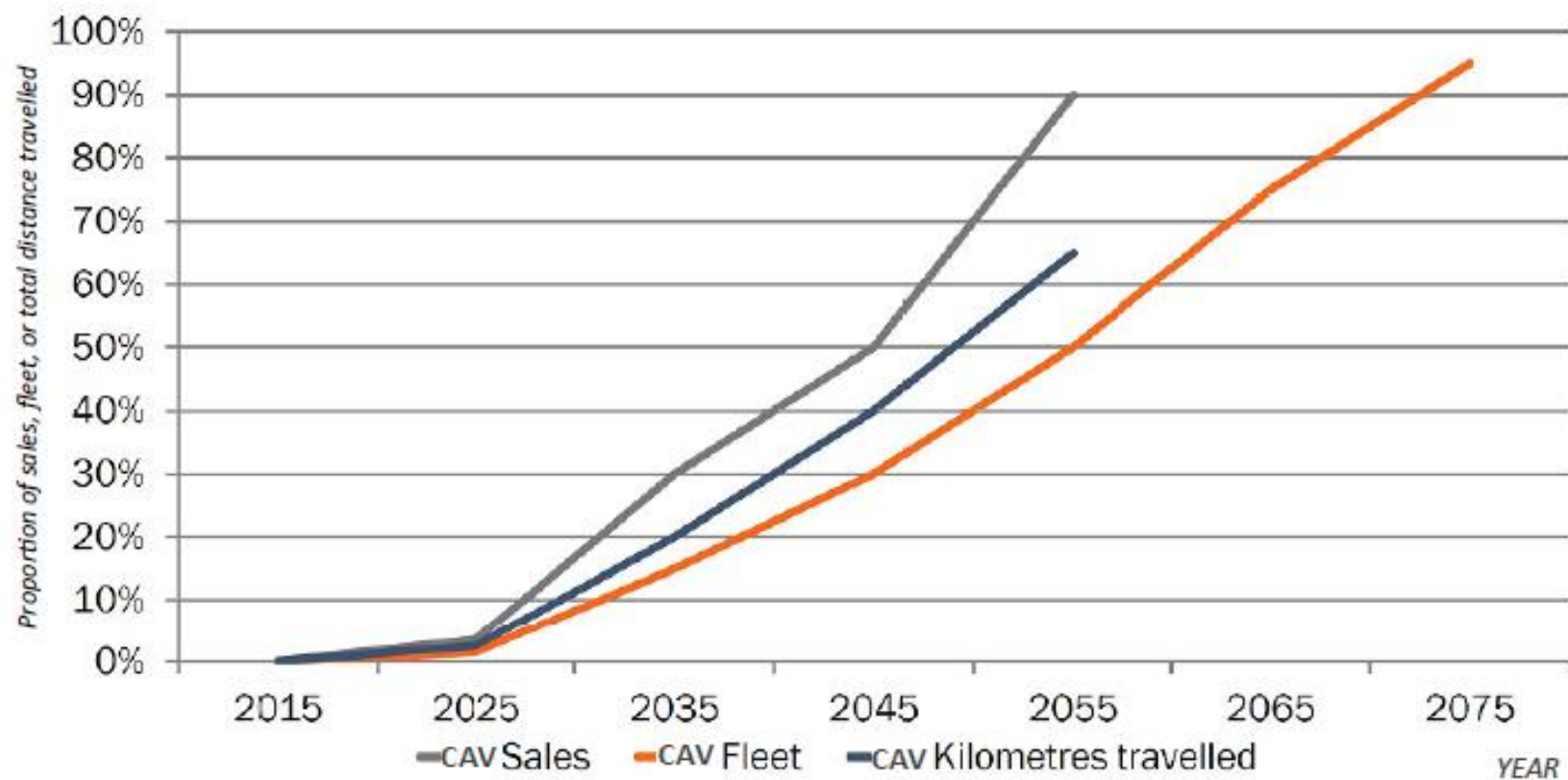
CAV transition

FIGURE 5 - PREDICTED TIMEFRAMES FOR WHEN TECHNOLOGY WILL BECOME AVAILABLE



CAV transition

FIGURE 6 - PREDICTED TRANSITION OF NEW CAV SALES, OVERALL FLEET SHARE, AND TOTAL KILOMETRES TRAVELLED BY CAVS
(ADAPTED FROM (LITMAN, 2015) (FEHR & PEERS, 2014))





Making the choices



2 seconds to kill?
Distracted drivers can be lethal.

www.at.govt.nz/2seconds



Manage demand effectively

Operate and renew assets efficiently, sustainably and safely

Make best use of assets



Invest in new infrastructure and services for growth



Making the choices

- Auckland growth
- Disruptive technology is a massive opportunity
- Not a silver bullet
- Waiting is not an option



Thank you.

