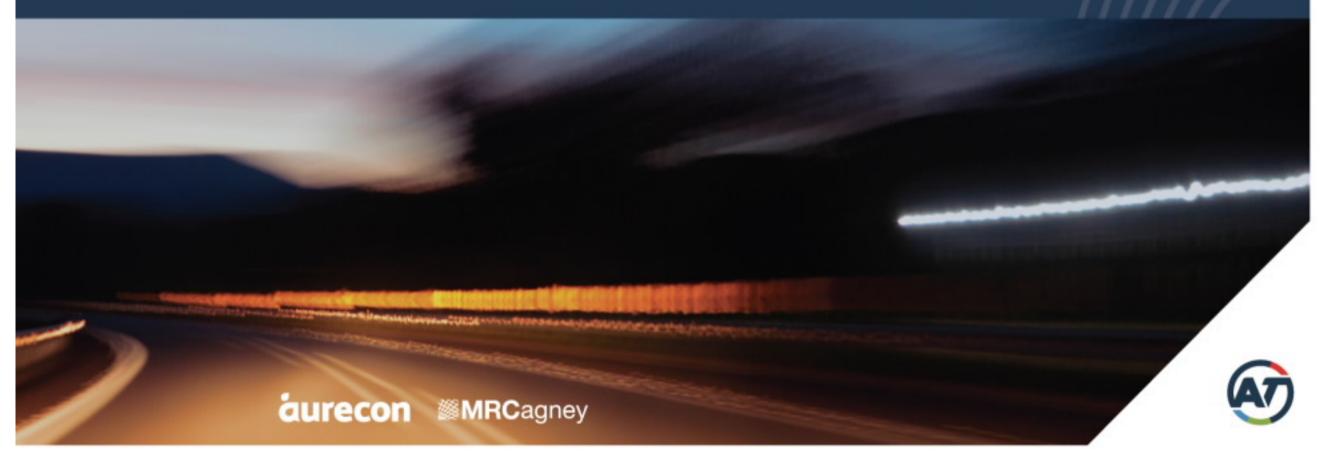
Rapid Transit Corridor Indicative Business Case



Setting the scene

Imagine a transportation project...

NEW ZEALAND

Northwestern busway to get green light

15 Sep, 2016 3:22pm

(0.3 minutes to read



A busway on the Northwestern Motorway from Westgate to Te Atatu aims to reduce congestion. Photo / Dean Purcell



By: Bernard Orsman Super City reporter, NZ Herald. bernard.orsman@nzherald.co.nz @BernardOrsman















Introducing the team

- Nalisha Kesha, Auckland Transport
- Steve Dudley, Aurecon
- Jenson Varghese, MRCagney









Outline

- The potential for the project
- "Noise"
- Overcoming the Noise









Why is it important?





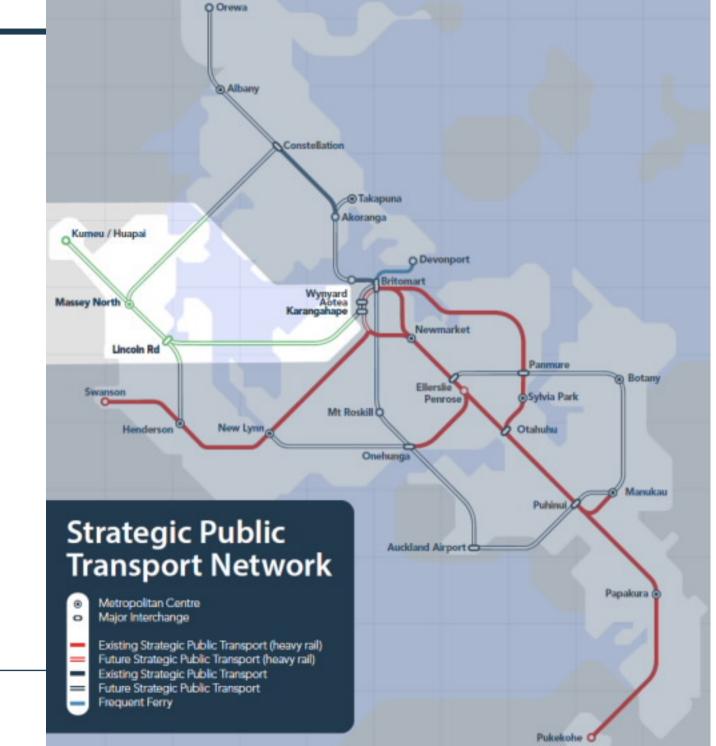






INVESTMENT OBJECTIVES				MEASURE	(KEY PERFORMANCE INDICATOR)	ACHIEVEMENTS OF THE RECOMMENDED OPTION
			KPI 1.1	•	Jobs accessible within a 45 minute trip by PT from the northwest	Brings 320,000 jobs within a 45-minute public transport journey of Westgate in 2046, compared to 120,000 with the Do-Minimum.
1		Substantially improve connections to and from the northwest.	KPI 1.2		Size of catchment accessible from the northwest by car (30 minutes), public transport (45 minutes) and active mode (30 minutes)	Creates a population catchment of 580,000 people within a 45-minute public transport trip of employers in Westgate compared to 300,000 with the Do-Minimum
			KPI 1.3	e in the interest of the inter	Corridor throughput: No. of buses, cars and trucks times the average occupancy	Increases the person throughput of the SH16 (all modes) at Waterview from 11,000/hour in the Do-Minimum to 16,000 per hour. Expected demand for travel in 2046 is 13,000/hour.
2		Make public transport a realistic option for the majority of journeys to and from the northwest.	KPI 2.1	QŘ	PT mode share along the northwestern corridor: Percentage shares of people throughput, by mode	Increases bus passengers entering the city centre from the northwest from 6,800 in the Do-Minimum to 9,300 in 2046. It does this with the same number of buses entering the city centre with higher occupancy
			KPI 2.2		Faster, more reliable journey times: Travel time; Travel time reliability	Creates a journey time by bus from Westgate to the city centre of 32 minutes in the peak compared to an expected journey time of 50 minutes with the Do-Minimum.
			KPI 2.3	(A)	Catchment within a frequent transport network: Proportion of the population living within 500m of a frequent network bus stop and 1km from a rail or bus rapid transit station	Enables 40,000 people to live within walking distance of a rapid transit service on the northwest corridor compared to 23,000 with the Do-Minimum.
3	QŘ	Increase the efficiency of public transport to and from the northwest	KPI 3.1	S††	Subsidy cost per passenger-km: Cost per passenger-km: Proportion of operating costs covered by fares for public transport services operating in Northwest corridor	Will enable a saving of \$11 million per year in operating costs. It will require \$48m/year compared with \$59m/year with the Do-Minimum.
			KPI 3.2	(m)	Capacity in city centre terminal/stop capacity: Number of on-street bus stops in city centre operating within their practical capacity	

The Project









The Noise



NEW ZEALAND

National's \$2.6 billion plan to fix Auckland's traffic chaos

4 Aug, 2017 5:00am (3 4 minutes to read



Transport Minister Simon Bridges was forced to reveal details of the package last night after parts of it were obtained by the Herald. Photo / Peter Meecham



By: Bernard Orsman Super City reporter, NZ Herald. bernard.orsman@nzherald.co.nz @BernardOrsman















ATAP

Indicative priorities for major new investments						
Early priorities (completion in decade 1)	Medium term priorities (completion in decade 2)	Longer term priorities (completion in decade 3)				
Northwestern Busway (Westgate to Te Atatu section). Address bottlenecks on Western Ring Route (SH20 Dominion Rd to Queenstown Rd) and Southern Motorway (Papakura to Drury). New or upgraded arterial roads to enable greenfield growth in priority areas. Protect routes and acquire land for greenfield networks. Complete SH16 to SH18 connection. Early Rail Development Plan priorities (see paragraph 81). Upgraded eastern Airport access (SH20B). Investments to enable smarter pricing. Increased investment in Intelligent Network Management. Progress advance works on medium-term priorities.	Continued investment to enable greenfield growth. New strategic roads to Kumeu and Pukekohe. Implementation of mass transit on isthmus and then to the Airport. Bus improvements Airport – Manukau – Botany. Improved access to Port/ Grafton Gully. Northwestern Busway extensions. Improve connection between East-West link and East Tamaki. Penlink. Medium-term Rail Development Plan priorities.	Continued investment to enable greenfield growth. Southern Motorway improvements south tof Manukau. Southwest Motorway (SH20) improvements and improved northern Airport access. Northern Motorway widening. Waitematä Harbour crossing improvements, including mass transit upgrade of Northern Busway. Longer term Rail Development Plan priorities.				









Mode & Staging

NEW ZEALAND

Northwestern busway to get green light

15 Sep, 2016 3:22pm

3 minutes to read



Early priorities (completion in decade 1)

- Northwestern Busway (Westgate to Te Atatu section).
- Address bottlenecks on Western Ring Route (SH20 Dominion Rd to Queenstown Rd) and Southern Motorway (Papakura to Drury).
- New or upgraded arterial roads to enable greenfield



A busway on the Northwestern Motorway from Westgate to Te Atatu aims to reduce congestion. Photo / Dean

BUSINESS

Auto industry invited to test driverless cars in New Zealand

1 Jun, 2017 6:19am

(3) minutes to read

ate ce





A Navya driverless car is already in trials at Christchurch Airport, Photo / File

NZ Herald



































Overcoming the noise









Simplicity

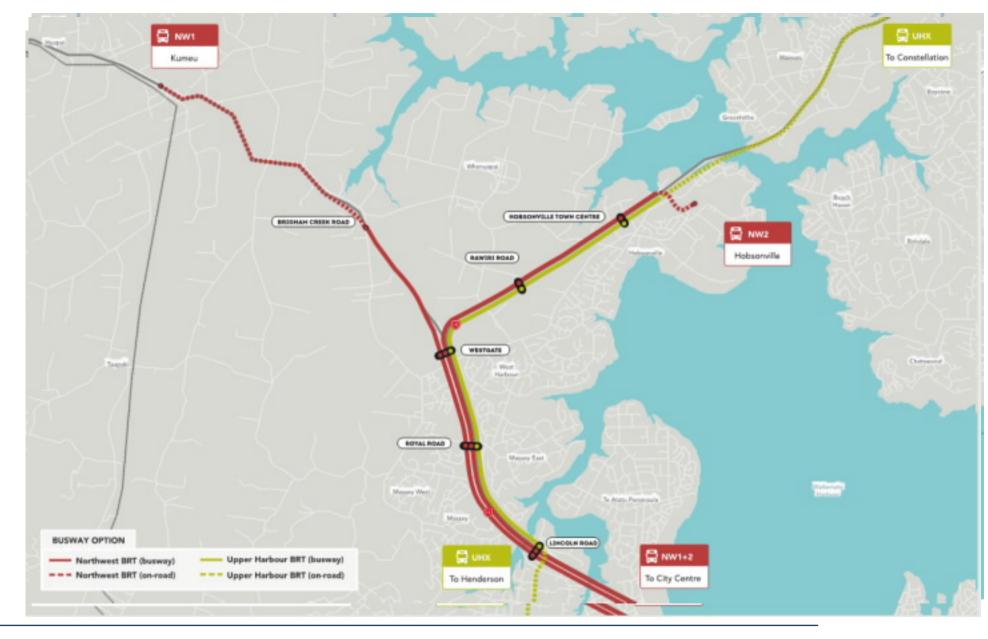








Overcoming the Noise: Service Led Options

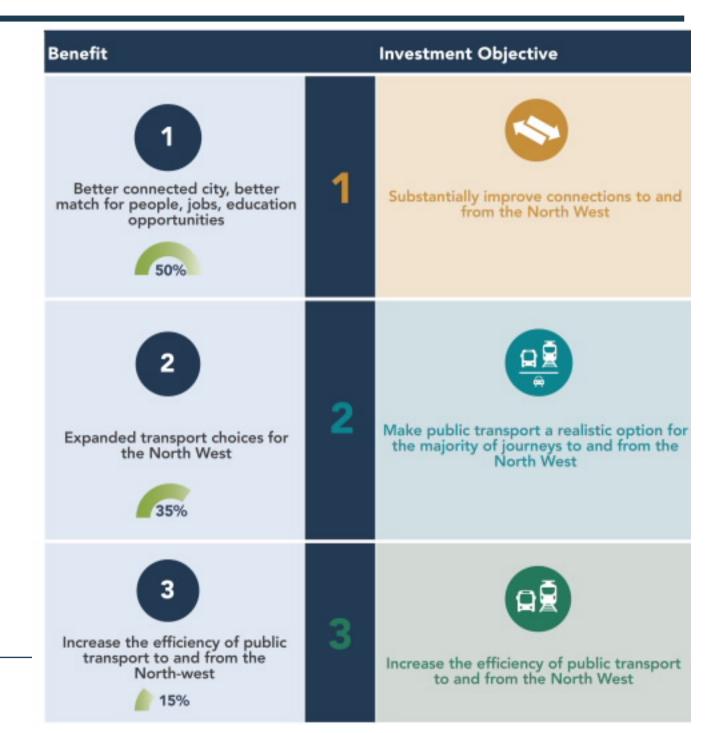








Defining the Problems and Success









Defining the Problem and Success for Customers







Journey Experience

"I work in the CBD but my life takes place in northwest Auckland.

Driving to the CBD in the peak hours is stressful and time-consuming, plus parking downtown is expensive.

I don't want to spend my time in traffic nor waiting on or in a crowded bus that meanders through suburbs.

 I need a fast, direct and reliable service with simple connection that performs especially during peak hours."







Journey Experience

"A lot of jobs are in the industrial areas in Rosebank or Henderson where car parks are available.

I can reach my work in the industrial area via the SH16 much better than I can by public transport.

Taking the bus would save me a lot of money but the journey takes longer than by car, is unreliable and sometimes doesn't cover my shift very well. I risk my job if I don't show up on time.

 I need an affordable reliable service to and from my work place in the industrial areas at any time of the day."







Journey Experience

"I have several destinations (school, work, friends) across Auckland plus I am on a budget.

+ I need an affordable, fast, direct and reliable service throughout the day and week."







Journey Experience

"I want to be mobile and part of society. I travel off peak to activities, to health care facilities and to see family and friends also locally.

Using the bus can be overwhelming: tagging or/off, finding the right connection and many of the bus stops are not designed barrier-free. Services are often infrequent and connections are difficult when I travel

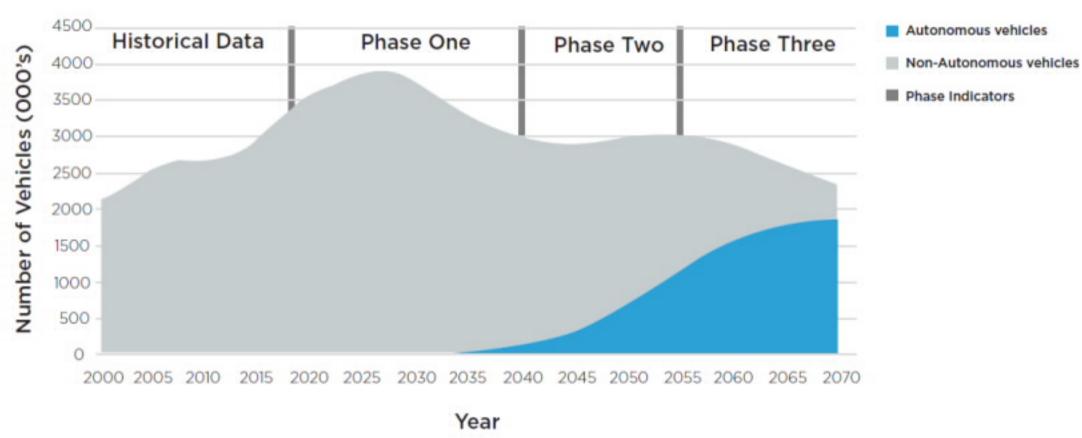
I need easy connections and barrier-free facilities."

Recommended outcome



Overcoming the Noise: Autonomous Vehicles

SIZE OF VEHICLE FLEET



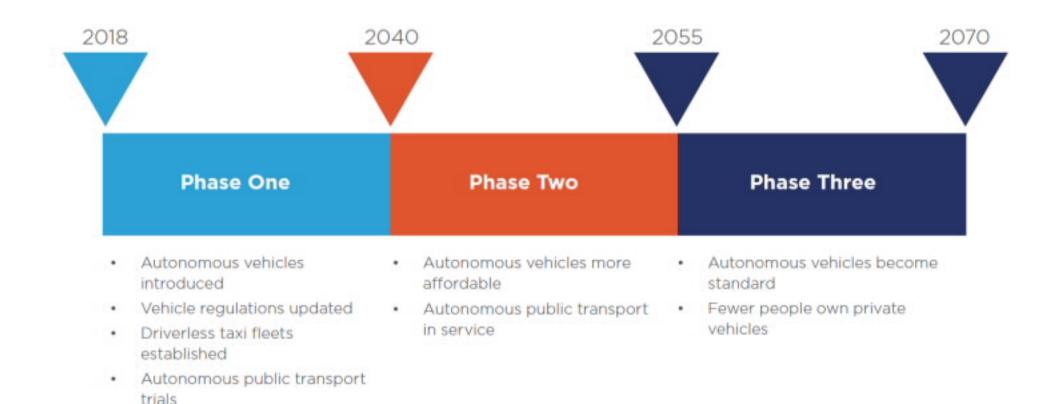








Overcoming the Noise: Autonomous Vehicles











Why is it important?











Overcoming the Noise: Team Approach

- Keep revisiting the 'why'
- Filter the 'noise' at the project leadership level
- Empower your team to focus on the core objectives/activities









The Outcome

- Simple, independent, focused business case
- Challenges expectations
- More 'noise'

What we could achieve:

- Double the jobs accessible by PT from Westgate
- Double the people within walking distance of rapid transit in the corridor
- Reduce PT travel time from Westgate City 50 mins to 32 mins









Learnings

- Focus on the basics
- Don't try to predetermine the outcome









