

Dynamic Lanes for Auckland

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Travel Demand Unit**



An Auckland Council Organisation

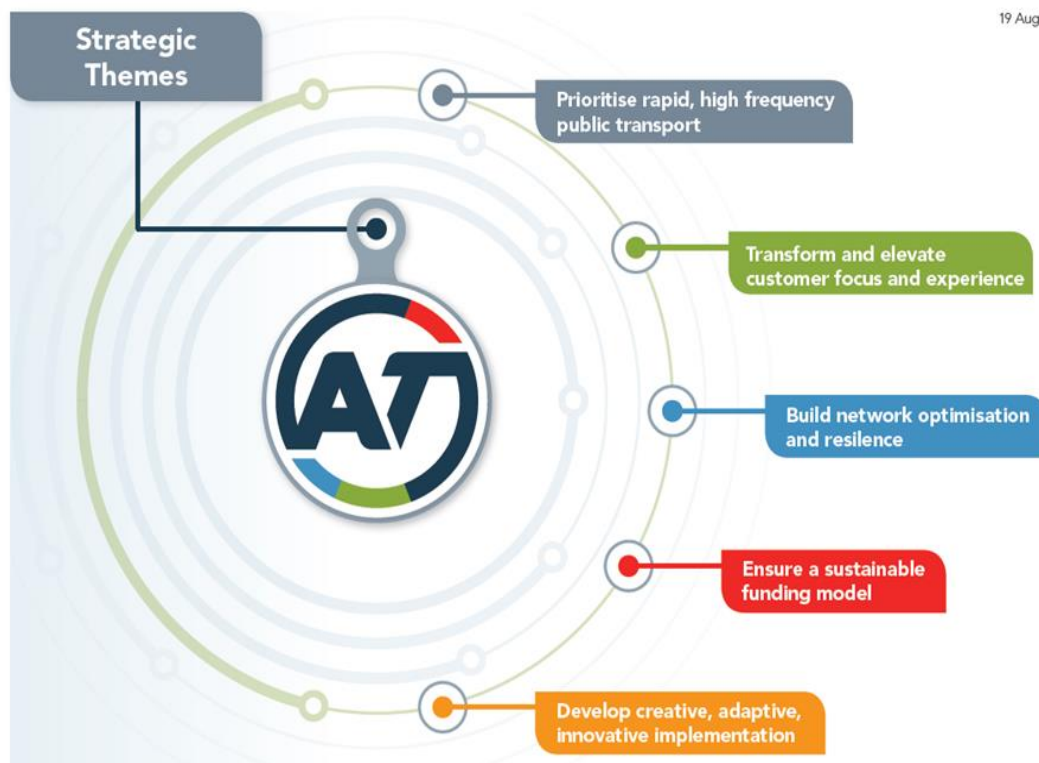
1. Introduction
2. Assessment Criteria
3. Trial Locations
4. Traffic Control Devices
5. Project Development
6. Opportunities and Next Steps

1. Introduction

- Existing congestion and future demand



19 August 2014





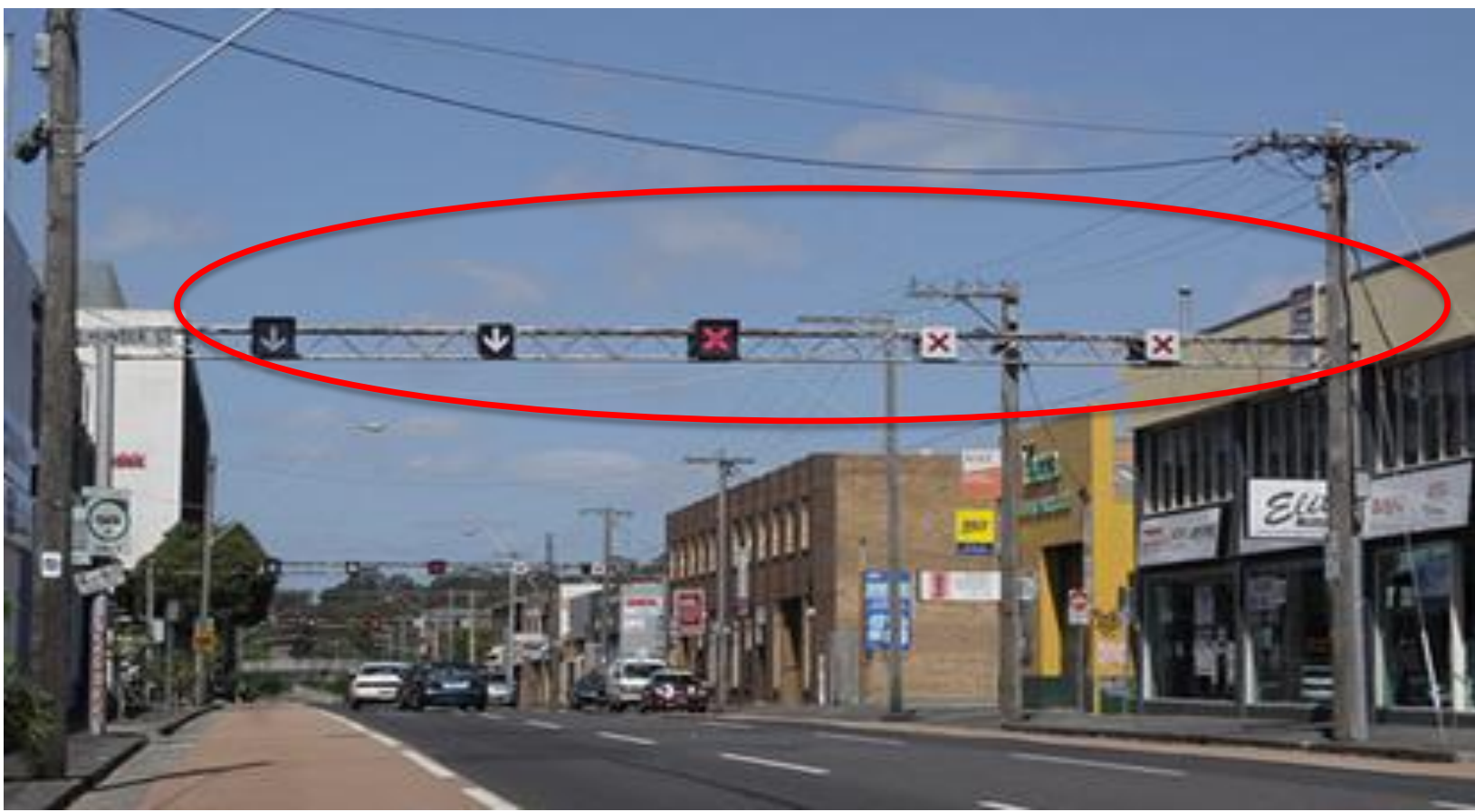
Existing Examples in Auckland



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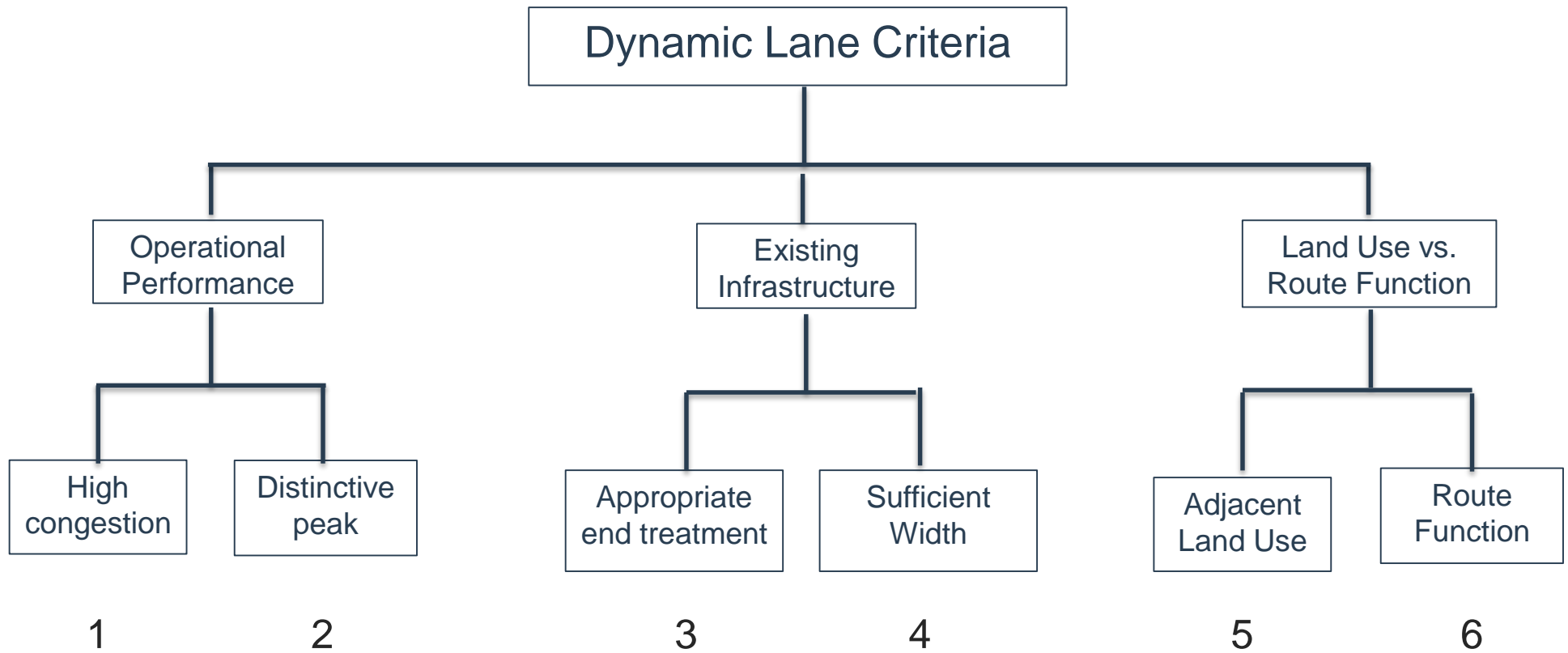
Examples Abroad

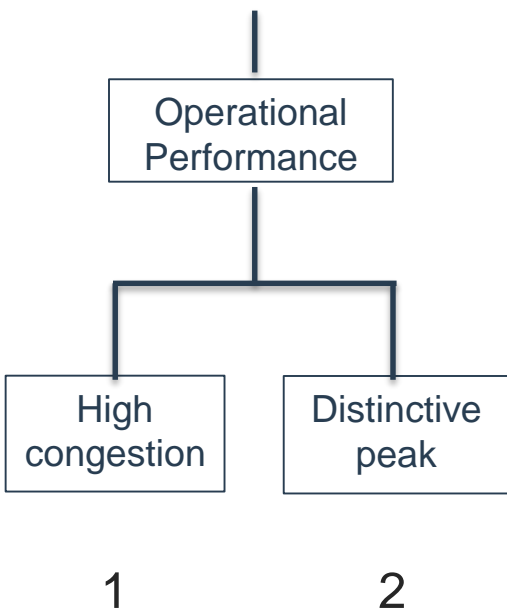


Examples Abroad

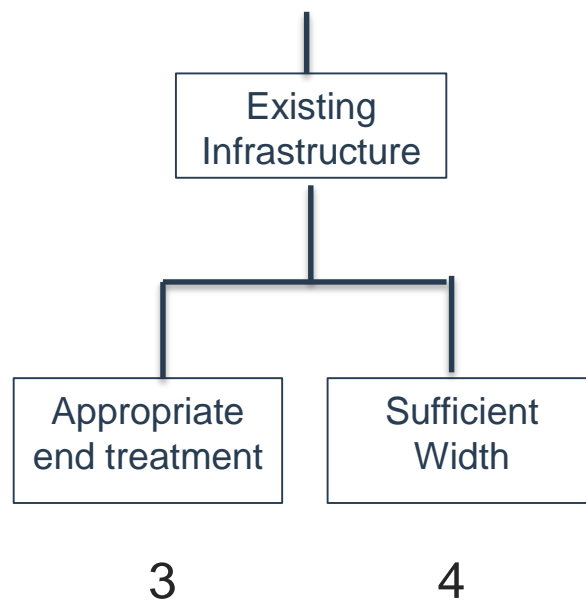


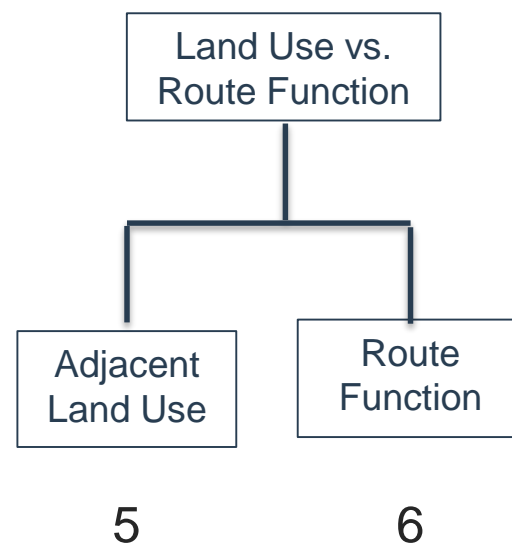
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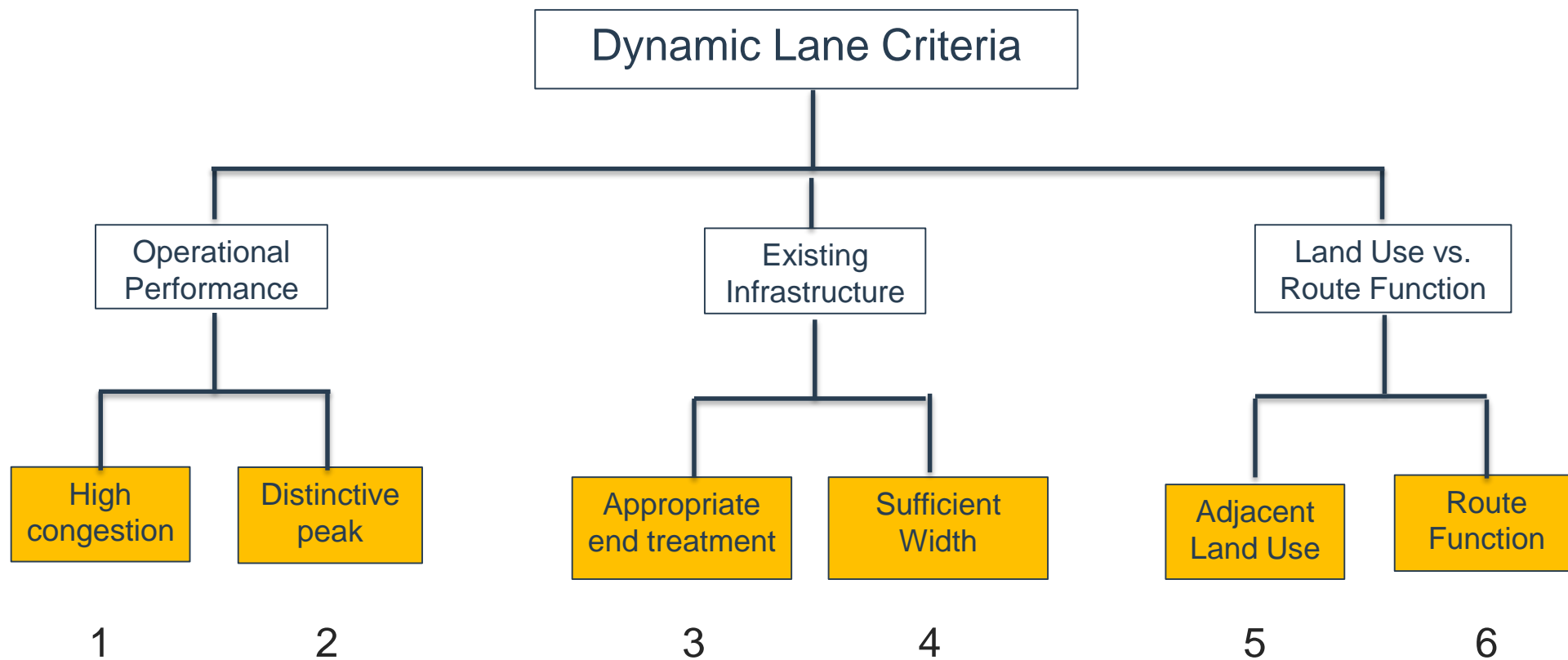




Traffic only – 10m
With cycle lanes – 13m







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Road name	Criteria						
	Congested	Tidal	Appropriate end treatment	Appropriate width	Adjacent land use	Route throughput function	
1 Lake Road, Takapuna – between Esmonde Road and Bayswater Avenue	No (D-E)	No	Yes	No (with cycle lanes)	No (cul-de-sacs)	Yes - Minimal (traffic islands x2)	
2 East Coast Road, between Greville Road and Oteha Valley Road	No (D)	Yes	Yes	Yes	Yes	Yes	
3 Whangaparaoa Rd, between Hibiscus Coast Highway and Red Beach Road	No (D)	Yes	Yes/No (and possible)	Yes	Yes	Yes	
4 Blockhouse Bay Road, Avondale - between Wolverton / Tiverton Road and New North Road	Yes (F)	Yes	Yes	Yes	Yes	Yes (none)	
5 Parnell Road, Parnell - between St. Stephans Avenue and Broadway	Yes (F)	Yes	No	No	No	No	
6 Te Atatu Road, Te Atatu Peninsula	No (D)	Yes	No	Yes	No	No	
7 Ash Street / Rata Street, Avondale	Yes (E) pm	Yes	Yes	No	Yes	Yes	
8 Great North Road - motorway to Blockhouse Bay Road	Yes (F) am	Yes	No (possible)	No	Yes	Yes	
9 New North Road - Blockhouse Bay Road to St. Lukes Road	Yes (F) am	Yes	No (possible)	No	No	Yes - Minimal (traffic islands x5)	
10 Sandringham Road - New North Road to Balmoral Road	Yes (F) am	Yes	No	No	No	No	
11 Great South Road - Manukau Road to Greenlane	Yes (E) am & pm	Yes	No (possible)	Yes	Yes	Yes - Minimal (traffic islands x5)	
12 Tamaki Drive - Ngapipi Road to Kitemoana Street	No (D)	Yes	No (possible)	Yes	Yes	Yes - Signalised crossing	
13 Swanson Road - Sturges Road to Larnoch Road	Yes (F)	No	Yes	Yes	Yes	Yes - Minimal (traffic islands x3)	
14 Donovan Street - Blockhouse Bay Road to White Swan Road	Yes (F)	Yes	No	Yes	No	No	
15 Kepa Road, Orakei - Patteson Avenue to Ngapipi Road	Yes (F) am	Yes	Yes	No	Yes	No - Zebra, traffic island x3	
16 Puhinui, Manukau - Lambie Drive to Great South Road	No (D)	Yes	Yes	Yes	Yes	No - 2 Zebra, 1 Signal	
17 Redoubt Road, Manukau - Motorway off-ramp to Hollyford Drive (possible extension)	Yes (F) am	Yes	Yes	Yes	Yes	Yes (none)	

Lake Road

mmm...?

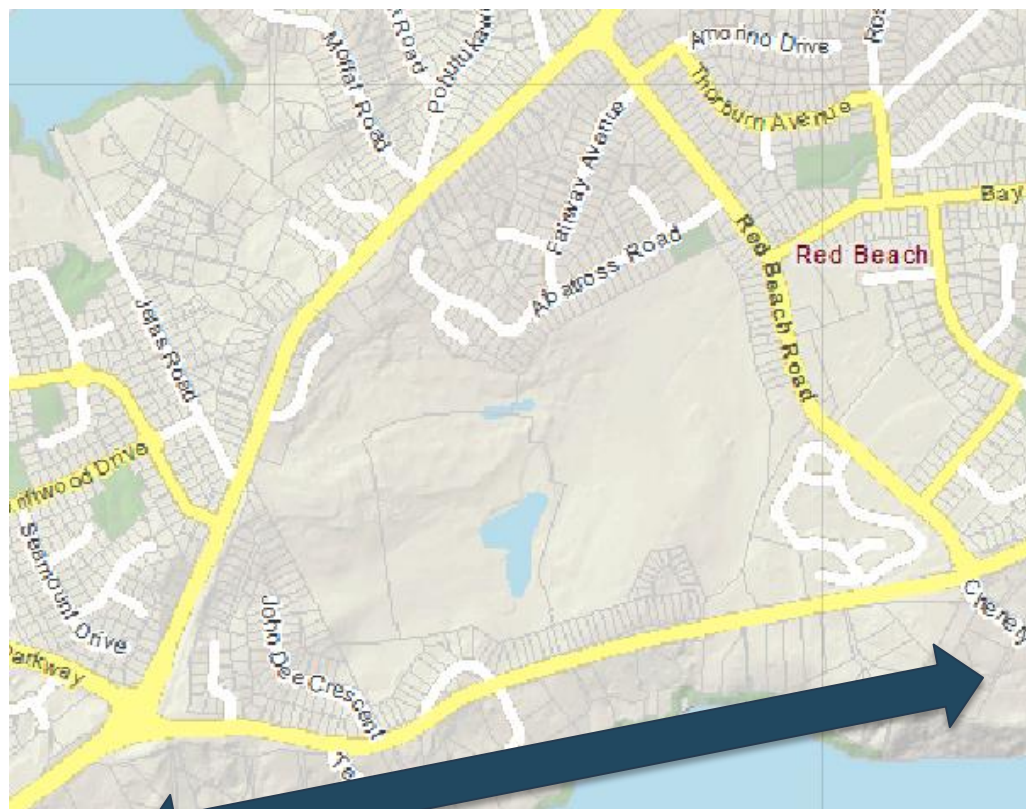


Redoubt Road

next quick win...?



Whangaparaoa Road



Whangaparaoa Road



Westbound - am peak hour
1,800/400 (80% / 20%)
20 to 30km/h

Eastbound – pm peak hour
700/1300 (35% / 65%)
30 to 35km/h

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- Gantry

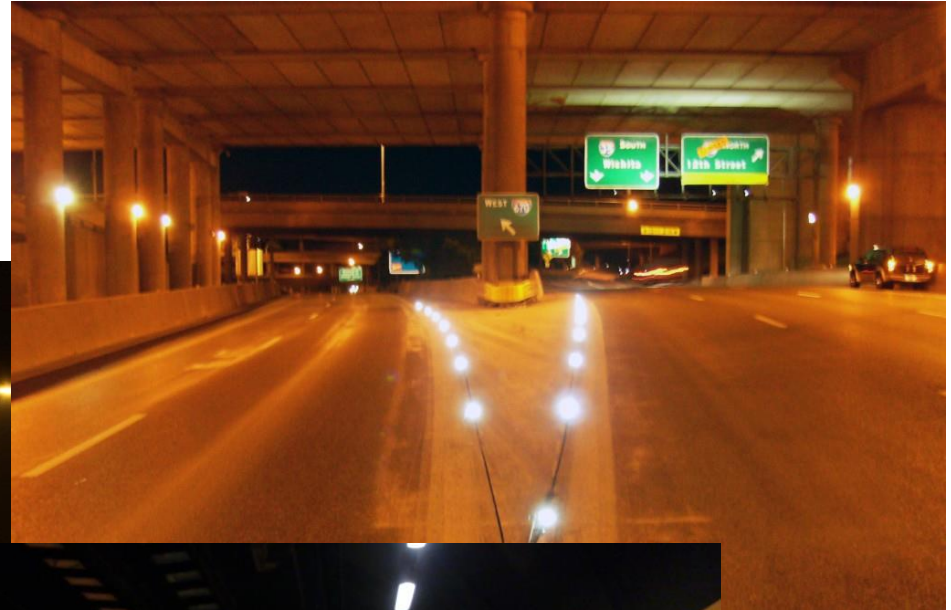


- VMS



- LED s....







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NEXT ACTIONS	TARGET DATE
Peer review of assessment criteria	June 2015
Confirm LED and signage layout	December 2015
Road safety psychology/driver behaviour assessment	August to February 2016
Confirm TCD Committee approval	February 2016
Consultation	September to April 2016
Communications Campaign	April to June 2016
Trial Delivery	June 2016
Monitoring and review	December 2016













Some risks ...

- Crossing
- Head-on on middle lane!
- Right turns from side-roads
- Right turn from main road
- Transitions!



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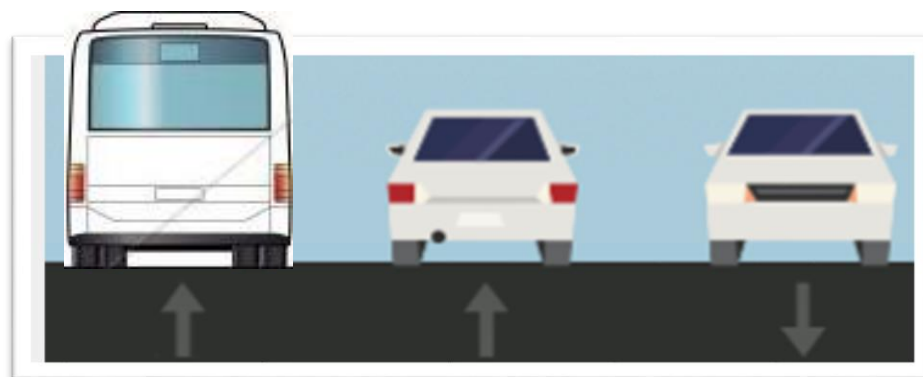
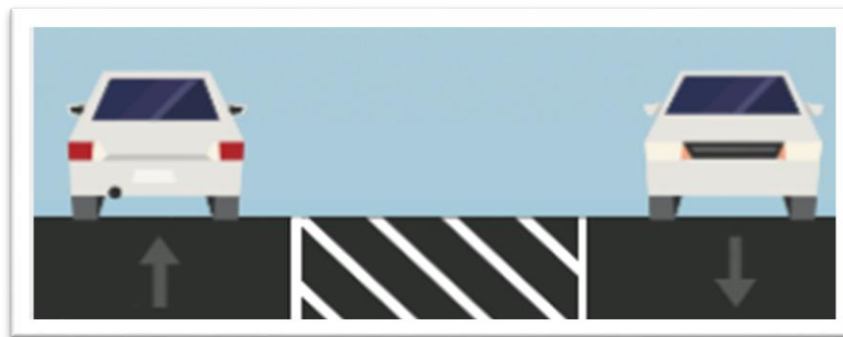


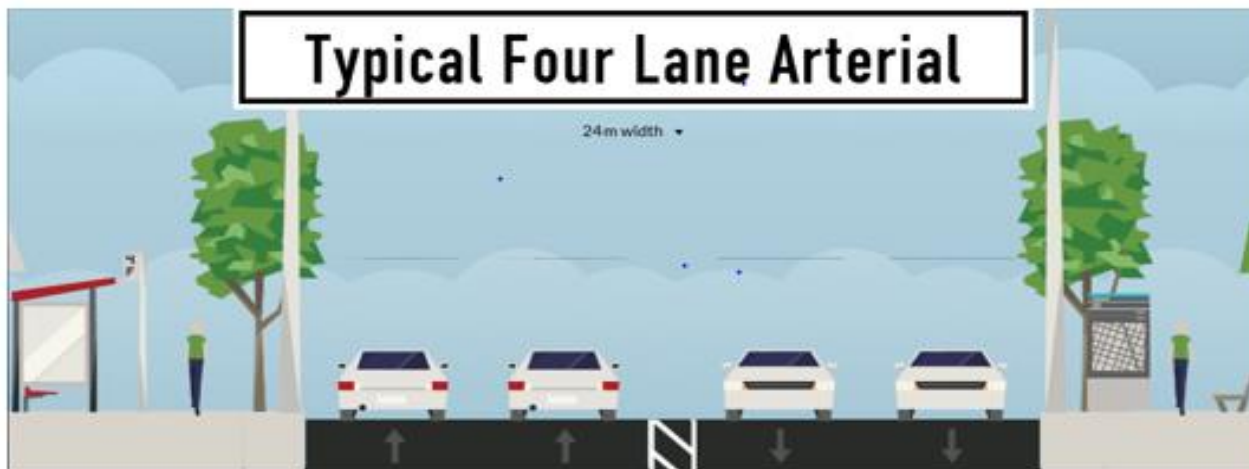
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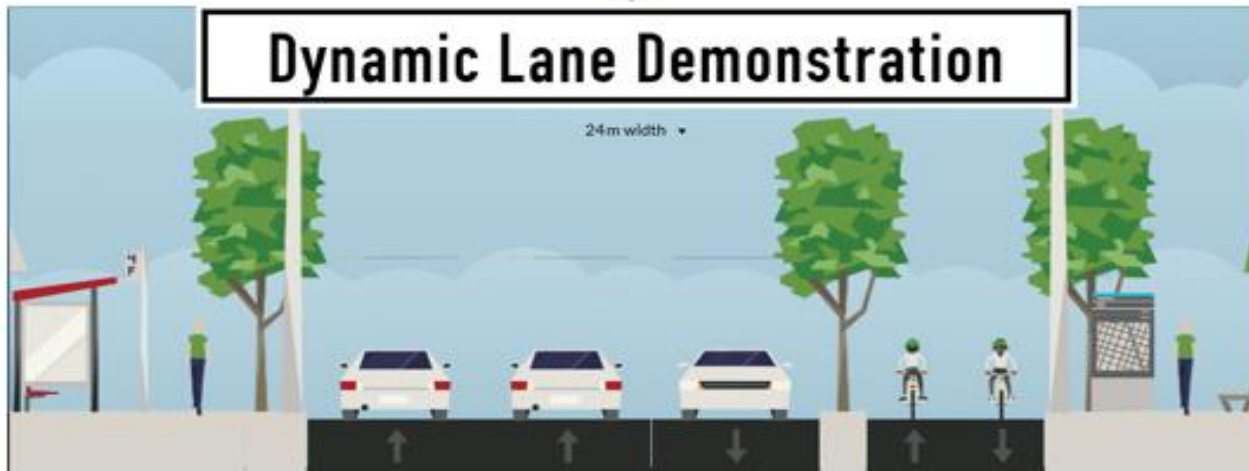
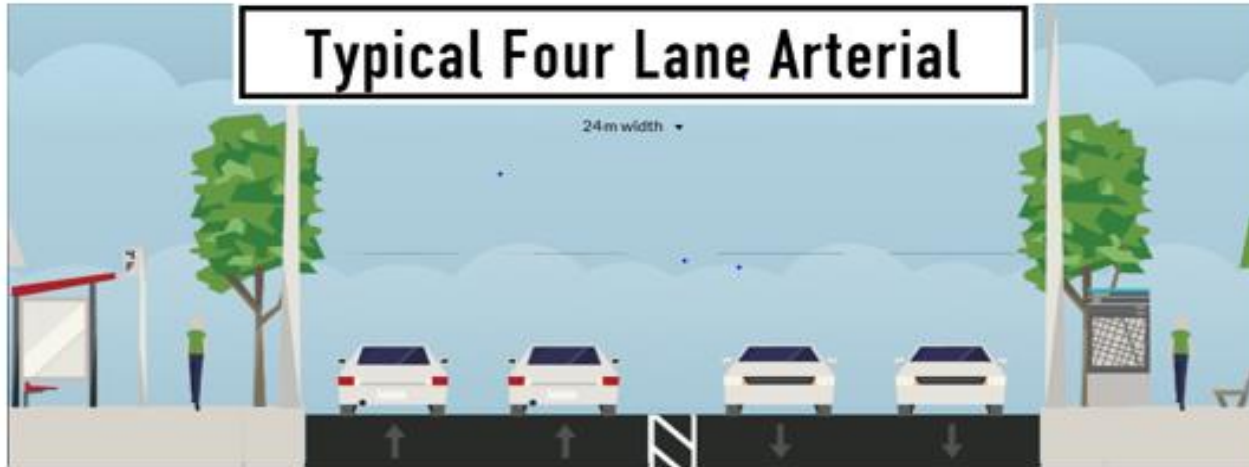
Dealing with risks ...



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Thank you