CRL & LRT

Constructing Excellence
21 October 2015

Steve Hawkins
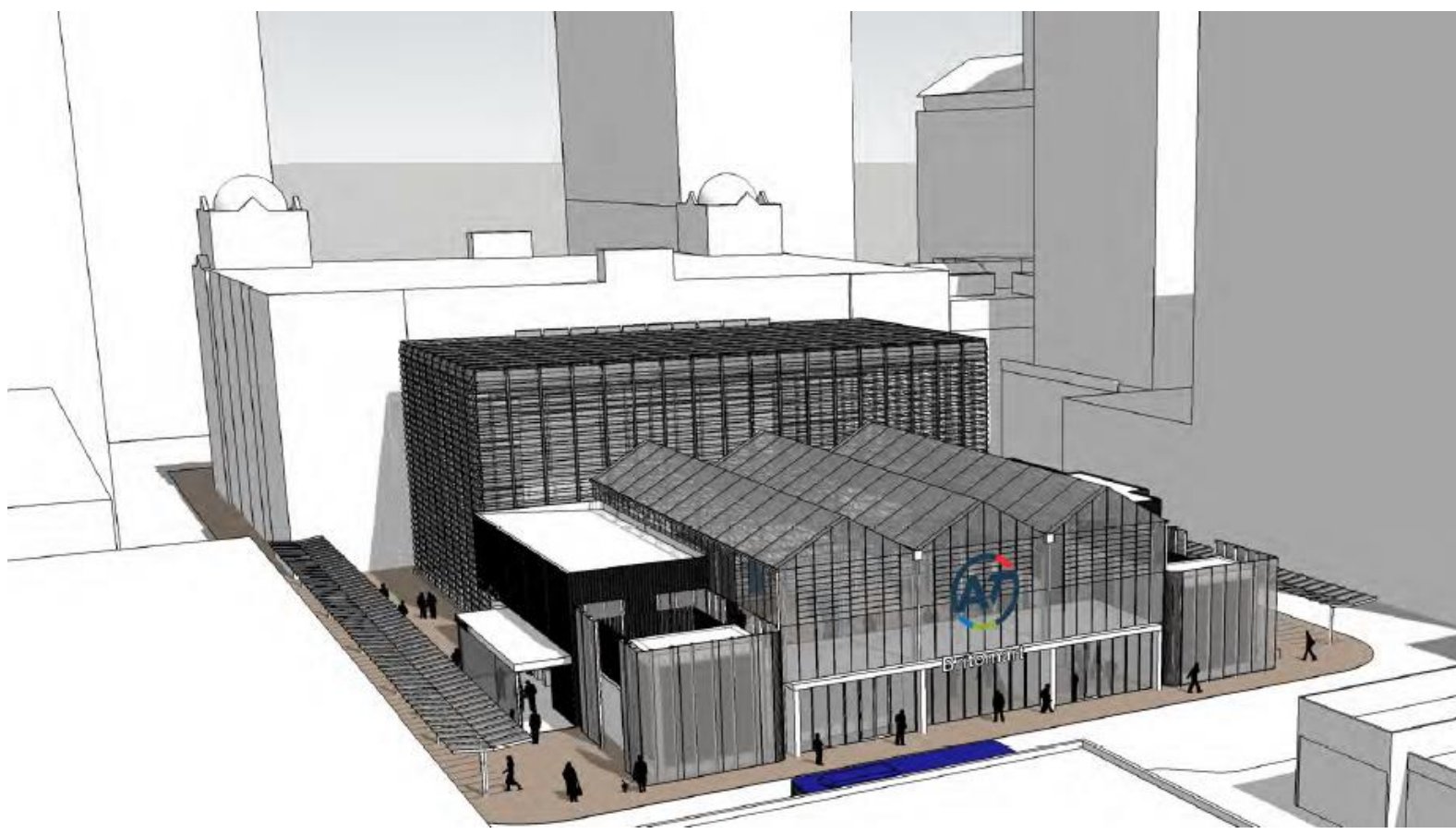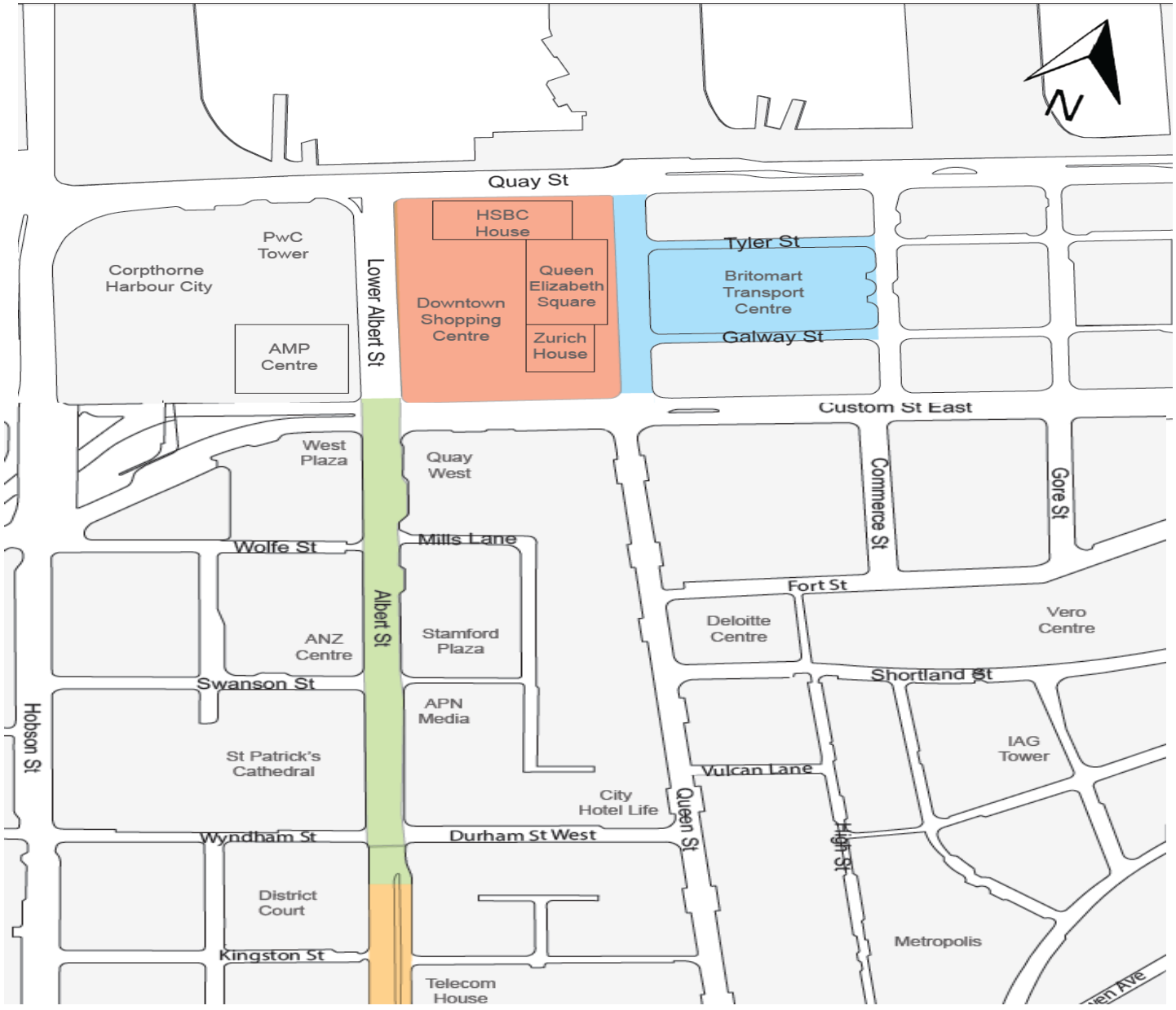
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CRL

Early works on Google Earth

Britomart Station – temporary operations

Developments on Google Earth

Planning Effective Delivery

LRT
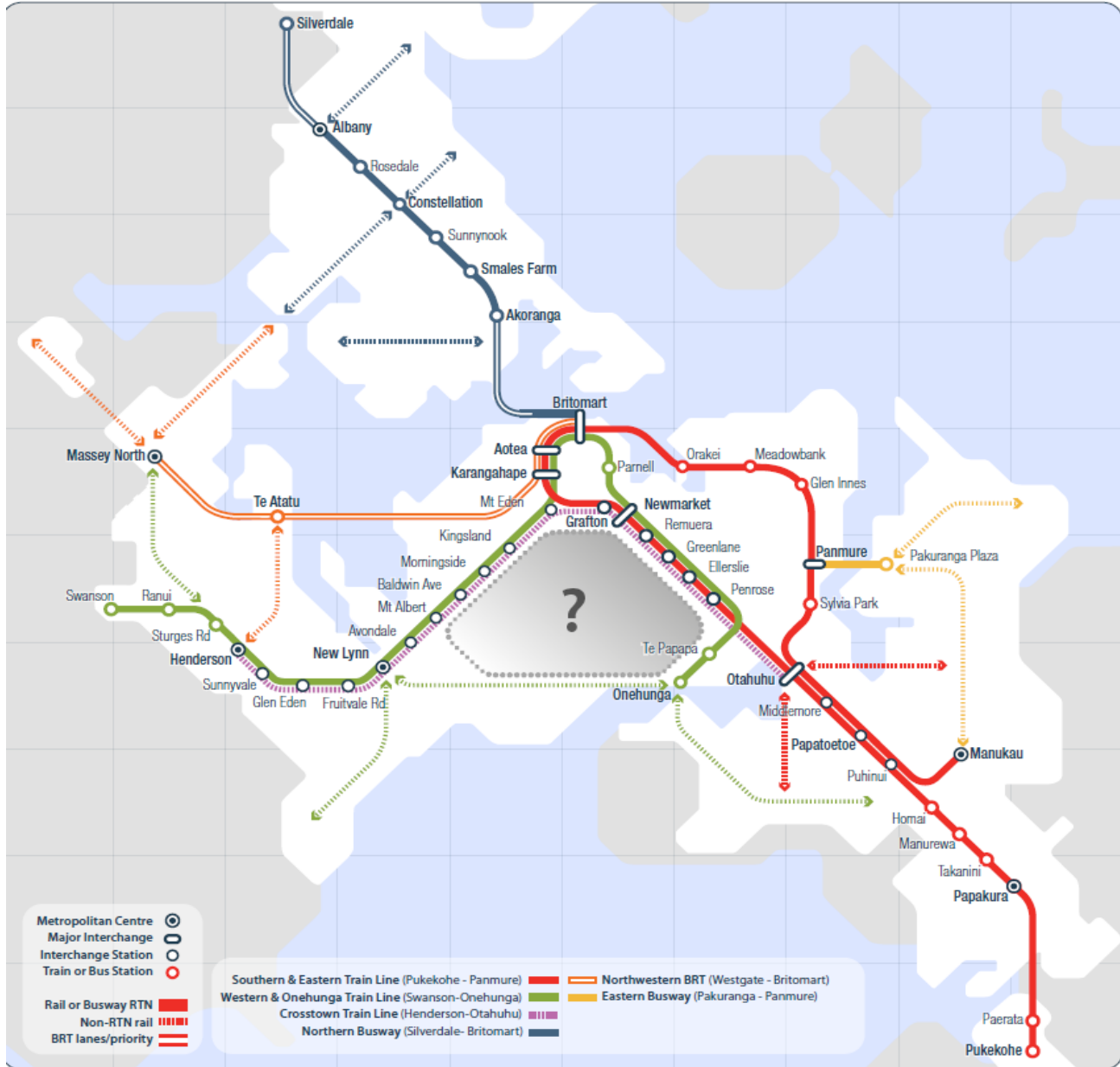
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What is the problem?

Demand over and near capacity

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Existing conditions on the bus network

Bus flow service volumes

Flow Rates for Exclusive or Near - Exclusive Lane			
ARTERIAL STREETS			
Free Flow	25 or less	15	🟩
Stable Flow - Unconstrained	26 to 45	35	🟩
Stable Flow - Interference	46 to 75	60	🟩
Stable Flow - Some Platooning	76 to 105	90	🟨
Unstable Flow - Queuing	106 to 135	120	🟥
Forced Flow - Poor Operation	Over 135*	150*	⬛
CBD STREETS			
Free Flow	20 or less	15	🟩
Stable Flow - Unconstrained	21 to 40	50	🟩
Stable Flow - Interference	41 to 60	60	🟩
Stable Flow - Some Platooning	61 to 80	70	🟨
Unstable Flow - Queuing	81 to 100	90	🟥
Forced Flow - Poor Operation	Over 100*	100*	⬛
*Results in more than one-lane operation			

This is the problem (unstable flow and queuing after 80 buses per hour)

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Existing conditions: Symonds Street (AM Peak)

Options investigated

Options investigated

Option 1: High Bus investment

Option 2: Light Rail investment

Option 2: Light Rail Investment Scenario

Light Rail on Google Earth

Overseas examples: Bus and LRT

Overseas example: Brisbane BRT

Overseas examples: Brisbane BRT

Overseas examples

Auckland Public transport patronage by mode 1920-2014

Legend:
- ■ Tram
- ■ Bus
- ■ Trolley bus
- ■ Train
- ■ Ferry

Million of passenger trips per annum

World War Two
1939 -1945
Petrol rationing

The Great
Depression
1929 -1935

1952 - 1959 Northern, Southern,
Western motorways opened

1956 Last Tram line
decomissioned

1970's oil shock

Patronage funding
2004

1959 Auckland Harbour
Bridge opens

Kick Start funding
1999- 2003

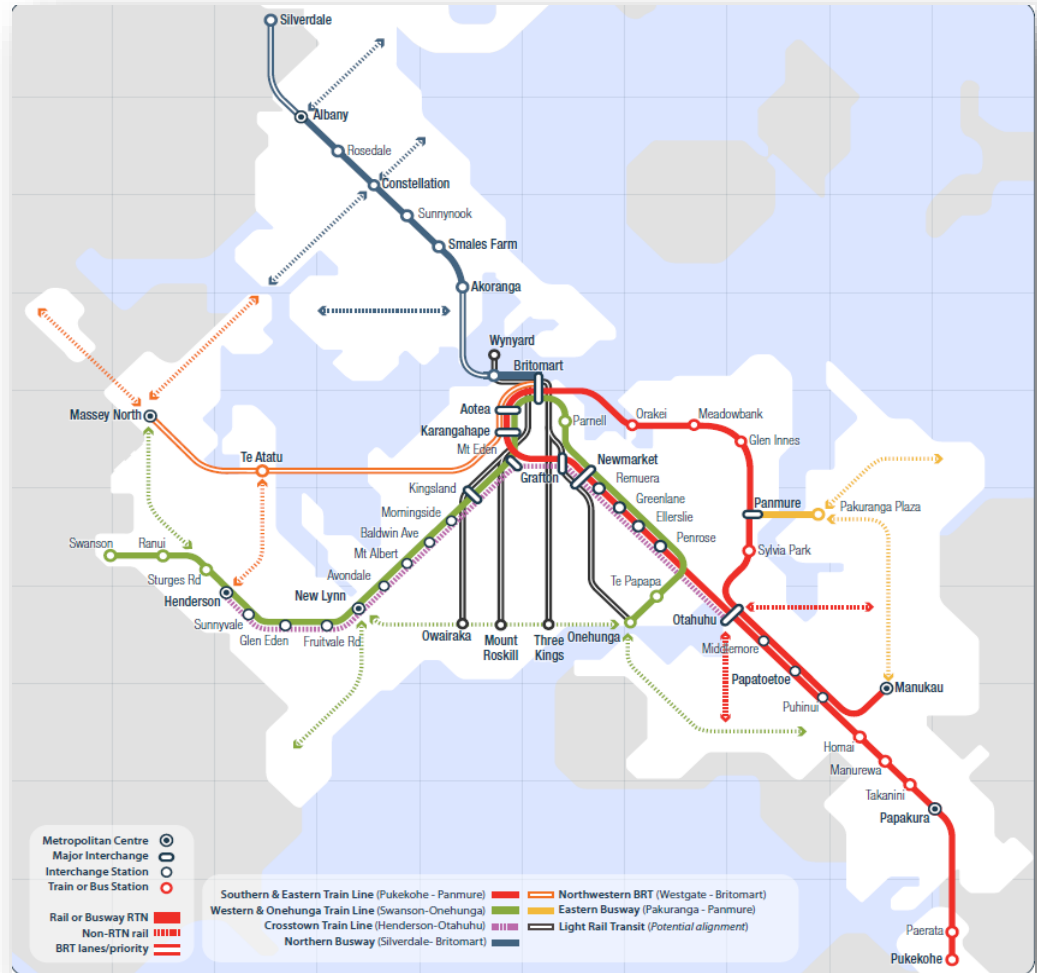**Auckland Transport**
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Commuter and light rail

Metro rail - CRL - links what exists

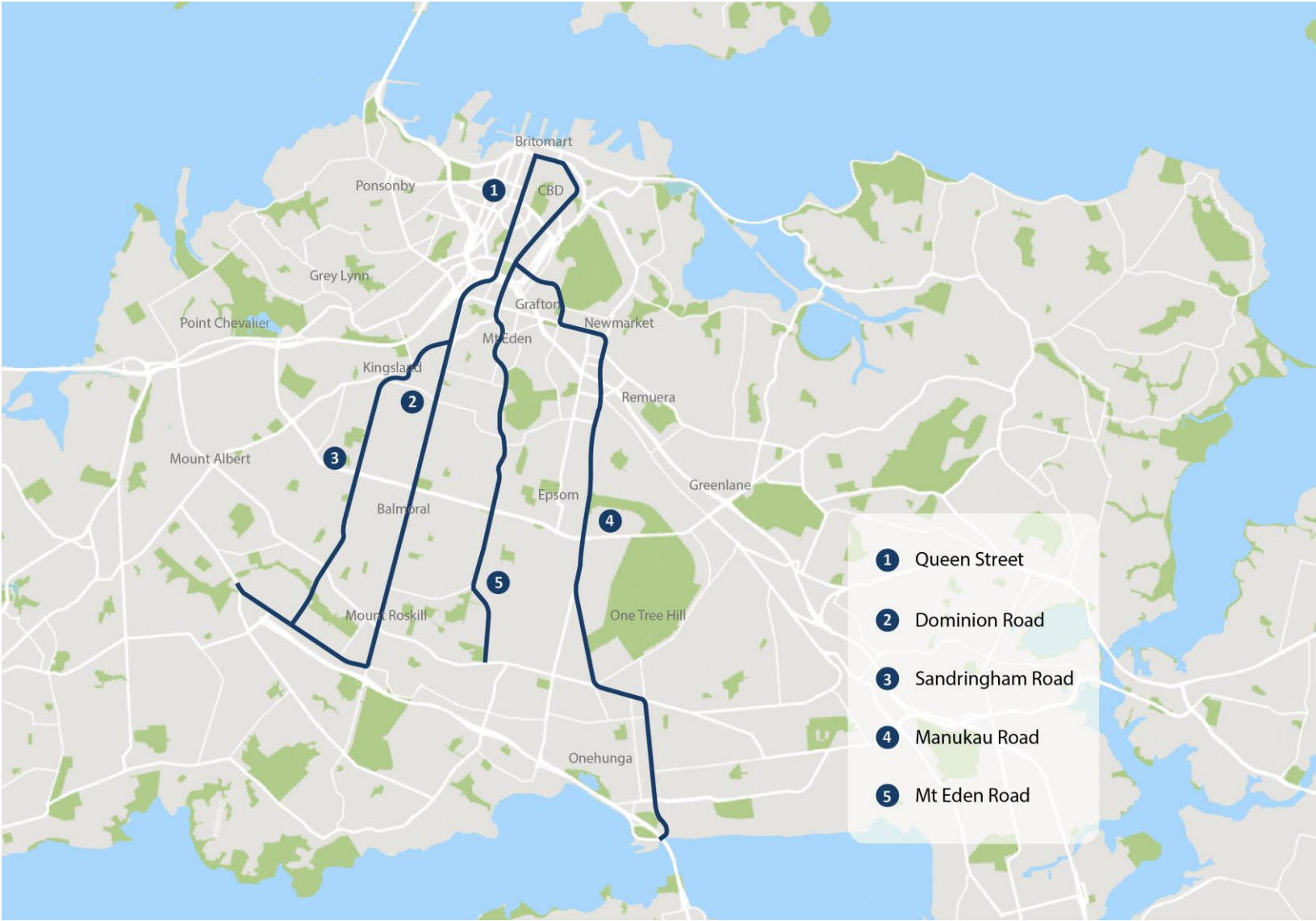- A regional solution to optimise rail for an efficient transport network

Light rail - a new solution

- Optimises road within the transport network

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Staging

1 Queen Street

2 Dominion Road

3 Sandringham Road

4 Manukau Road

5 Mt Eden Road

Planning Effective Delivery

Concept images

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Delivering transport choices
to get you where you want,
when you want.

Our Vision