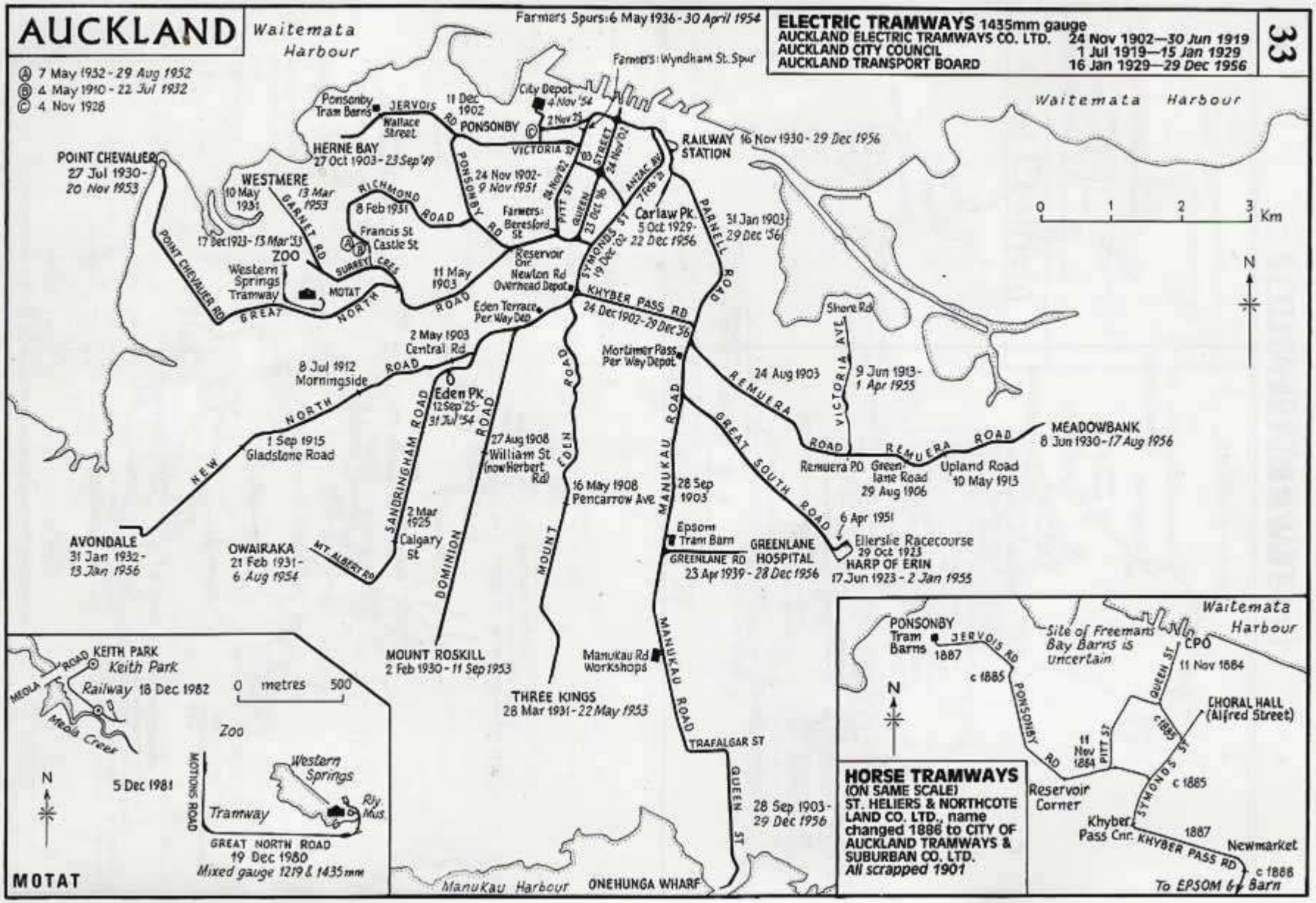
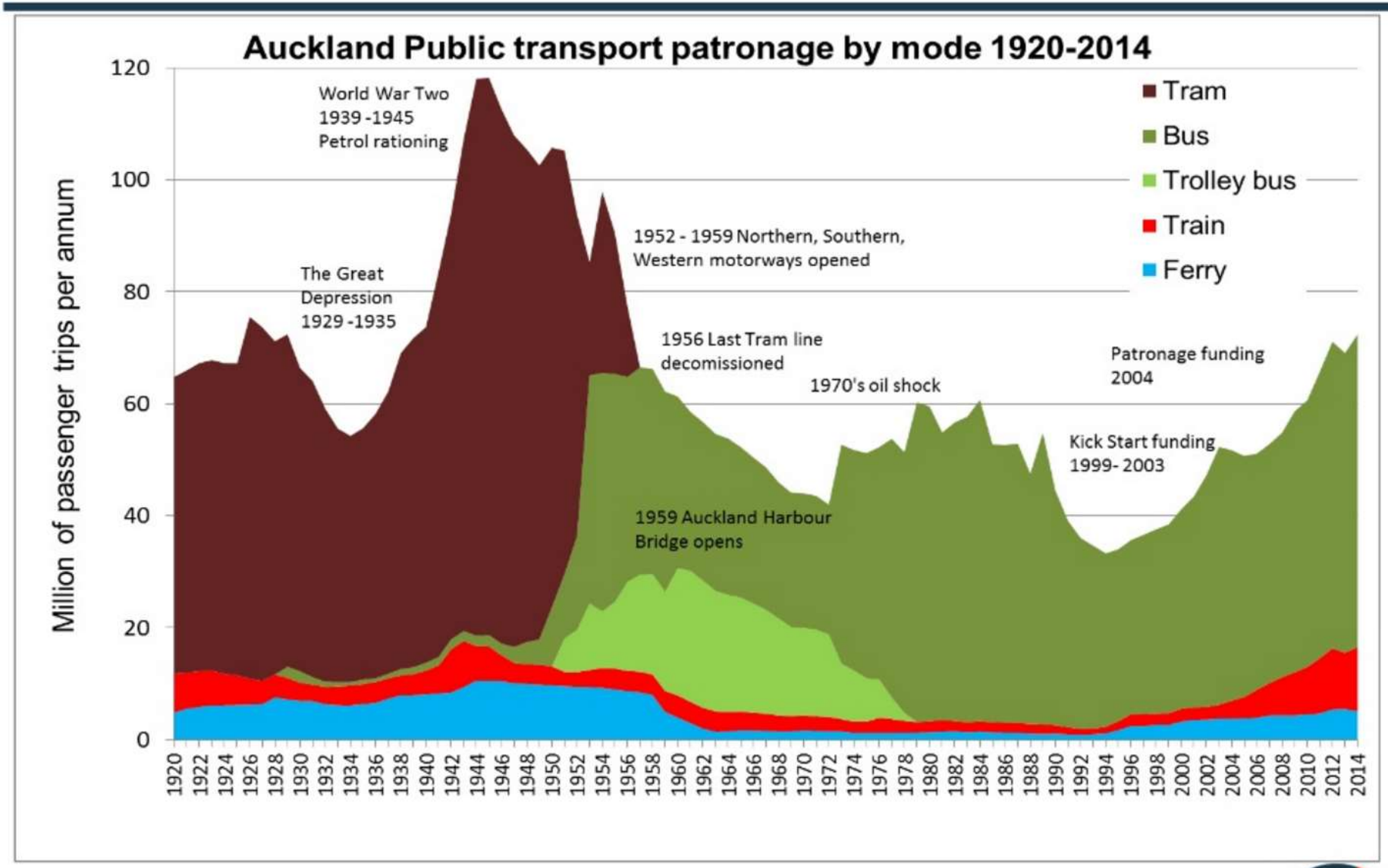
Light Rail Update

Vincent Chan | LRTA- Auckland




AUCKLAND
Waitemata Harbour
Farmers Spurs: 6 May 1936 - 30 April 1954
ELECTRIC TRAMWAYS 1435mm gauge
AUCKLAND ELECTRIC TRAMWAYS CO. LTD. 24 Nov 1902—30 Jun 1919
AUCKLAND CITY COUNCIL 1 Jul 1919—15 Jan 1929
AUCKLAND TRANSPORT BOARD 16 Jan 1929—29 Dec 1956
33
Ⓐ 7 May 1932 - 29 Aug 1952
Ⓑ 4 May 1910 - 22 Jul 1932
Ⓒ 4 Nov 1926
Farmers: Wyndham St. Spur
City Depot 4 Nov '54
Ponsonby Tram Barns
JERVOIS RD
Wallace Street
11 Dec 1902
PONSONBY
2 Nov '25
VICTORIA ST
QUEEN STREET
24 Nov '02
ANZAC AV
7 Feb '26
RAILWAY STATION 16 Nov 1930 - 29 Dec 1956
HERNE BAY 27 Oct 1903 - 23 Sep '49
PONSONBY ROAD
24 Nov 1902 - 9 Nov 1951
PITT ST
25 Oct '26
SYMONDS ST
19 Dec '02
PARNELL ROAD
POINT CHEVALIER 27 Jul 1930 - 20 Nov 1953
WESTMERE 10 May 1931
13 Mar 1953
GARNET RD
RICHMOND ROAD
8 Feb 1931
Francis St
Castle St
Farmers: Beresford St
Carlaw Pk 5 Oct 1929 - 22 Dec 1956
31 Jan 1903 - 29 Dec '56
17 Dec 1923 - 13 Mar '53
ZOO
SURREY CRES
Western Springs Tramway
MOTAT
Reservoir Cnr Newton Rd Overhead Depot
11 May 1903
POINT CHEVALIER RD
GREAT NORTH ROAD
KHYBER PASS RD
24 Dec 1902 - 29 Dec 36
Eden Terrace Per Way Dep.
Shore Rd
2 May 1903
Central Rd
Mortimer Pass Per Way Depot
VICTORIA AVE
9 Jun 1913 - 1 Apr 1955
24 Aug 1903
8 Jul 1912
Morningside
REMUERA ROAD
MEADOWBANK 8 Jun 1930 - 17 Aug 1956
Eden Pk 12 Sep '25 - 31 Jul '54
SANDRINGHAM ROAD
DOMINION ROAD
MOUNT EDEN ROAD
MANUKAU ROAD
GREAT SOUTH ROAD
1 Sep 1915
Gladstone Road
NEW NORTH ROAD
27 Aug 1908
William St (now Herbert Rd)
Remuera PO
Greenlane Road 29 Aug 1906
Upland Road 10 May 1913
16 May 1908
Pencarrow Ave
28 Sep 1903
2 Mar 1925
Calgary St
6 Apr 1951
Epsom Tram Barn
GREENLANE HOSPITAL
GREENLANE RD 23 Apr 1939 - 28 Dec 1956
Ellerslie Racecourse 29 Oct 1923
HARP OF ERIN 17 Jun 1923 - 2 Jan 1955
AVONDALE 31 Jan 1932 - 13 Jan 1956
OWAIRAKA 21 Feb 1931 - 6 Aug 1954
MT ALBERT RD
MOUNT ROSKILL 2 Feb 1930 - 11 Sep 1953
Manukau Rd Workshops
THREE KINGS 28 Mar 1931 - 22 May 1953
TRAFALGAR ST
QUEEN ST
28 Sep 1903 - 29 Dec 1956
ONEHUNGA WHARF
Manukau Harbour
0 1 2 3 Km
N
KEITH PARK
Keith Park Railway 18 Dec 1982
MEOLA ROAD
Meola Creek
0 metres 500
Zoo
MOTIONS ROAD
Western Springs Tramway
Rly. Mus.
5 Dec 1981
GREAT NORTH ROAD
19 Dec 1980
Mixed gauge 1219 & 1435mm
MOTAT
PONSONBY Tram Barns
JERVOIS RD
1887
c 1885
PONSONBY RD
Site of Freemans Bay Barns is Uncertain
CPO
11 Nov 1884
QUEEN ST
CHORAL HALL (Alfred Street)
11 Nov 1884
PITT ST
c 1885
SYMONDS ST
Reservoir Corner
Khyber Pass Cnr
KHYBER PASS RD
1887
Newmarket
c 1888
To EPSOM & Barn
HORSE TRAMWAYS
(ON SAME SCALE)
ST. HELIERS & NORTHCOTE LAND CO. LTD., name changed 1886 to CITY OF AUCKLAND TRAMWAYS & SUBURBAN CO. LTD.
All scrapped 1901


Auckland Public transport patronage by mode 1920-2014
Million of passenger trips per annum
120
100
80
60
40
20
0
Tram
Bus
Trolley bus
Train
Ferry
World War Two
1939 -1945
Petrol rationing
The Great
Depression
1929 -1935
1952 - 1959 Northern, Southern,
Western motorways opened
1956 Last Tram line
decomissioned
1959 Auckland Harbour
Bridge opens
1970's oil shock
Patronage funding
2004
Kick Start funding
1999- 2003
1920 1922 1924 1926 1928 1930 1932 1934 1936 1938 1940 1942 1944 1946 1948 1950 1952 1954 1956 1958 1960 1962 1964 1966 1968 1970 1972 1974 1976 1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014

Light rail returns to the spotlight

By Mathew Dearnaley

5:00 AM Friday Jan 23, 2015

Auckland Region | Public Transport | Transport

SHARE:

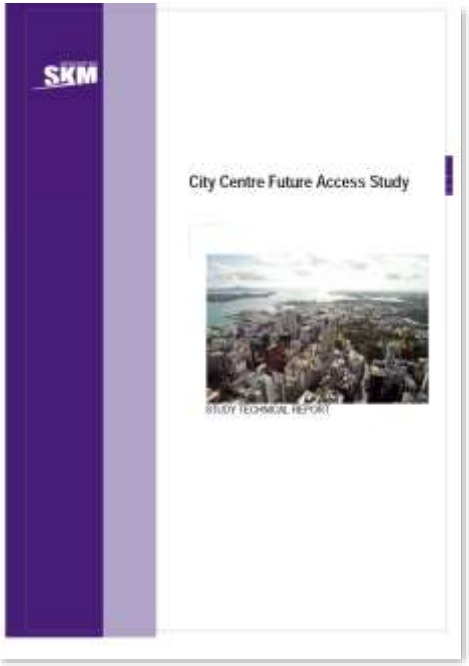
Auckland Transport is investigating replacing some bus routes with electric tram service



Auckland may yet see modern trams like Milan in its streetscape on certain busy roads in and out of the city.

Auckland could become a city of trams again, with light rail back on the drawing board to complement trains and buses.

The city's transport authority has revealed it is investigating replacing buses with



Auckland

Draft Regional Lan
Transport Plan 201

NZ TRANSPORT AGENCY

Light Rail Transit Association

Submission on the *Variation to the Auckland Regional Publ*
of Proposal May 2015

1. **Foreword**

The *Light Rail Transit Association – Auckland* (LRTA) welco
feedback on the Variation to the Auckland Regional Public
Proposal May 2015.

The LRTA is an international incorporated society concern
better public transport through light rail, tramway, and m
worldwide. Members in New Zealand wish to promote th
rail and are drawn from a broad range of professional fie
engineering, operation, maintenance, and regulatory env
historic light rail and tramway systems.

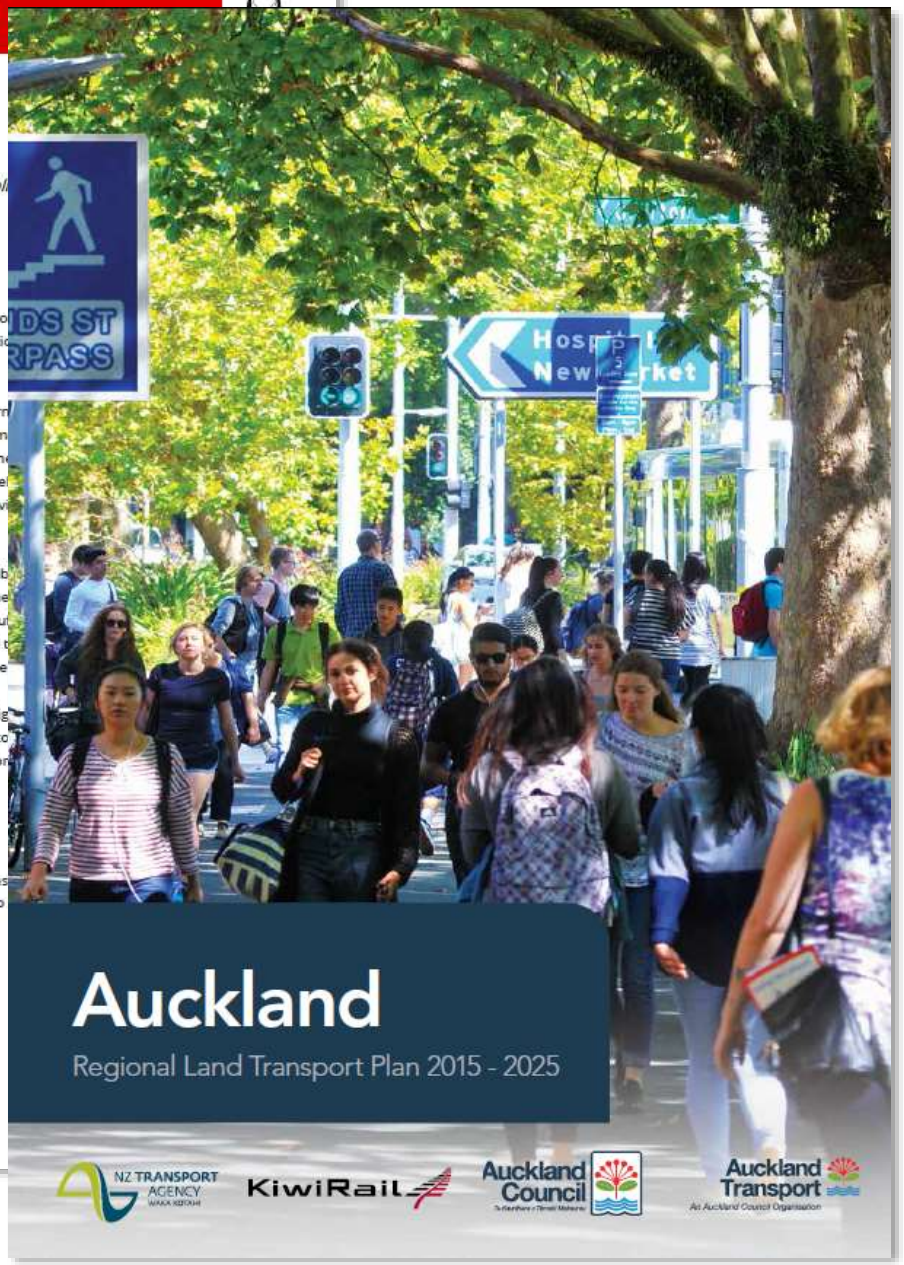
The LRTA acknowledges the adoption of the Regional Pub
Auckland Transport (AT) in September 2013. Although me
this document, specific proposals were not outlined in su
there any recognition of the potential ability of Light Rail t
transformational change in public transport and land use

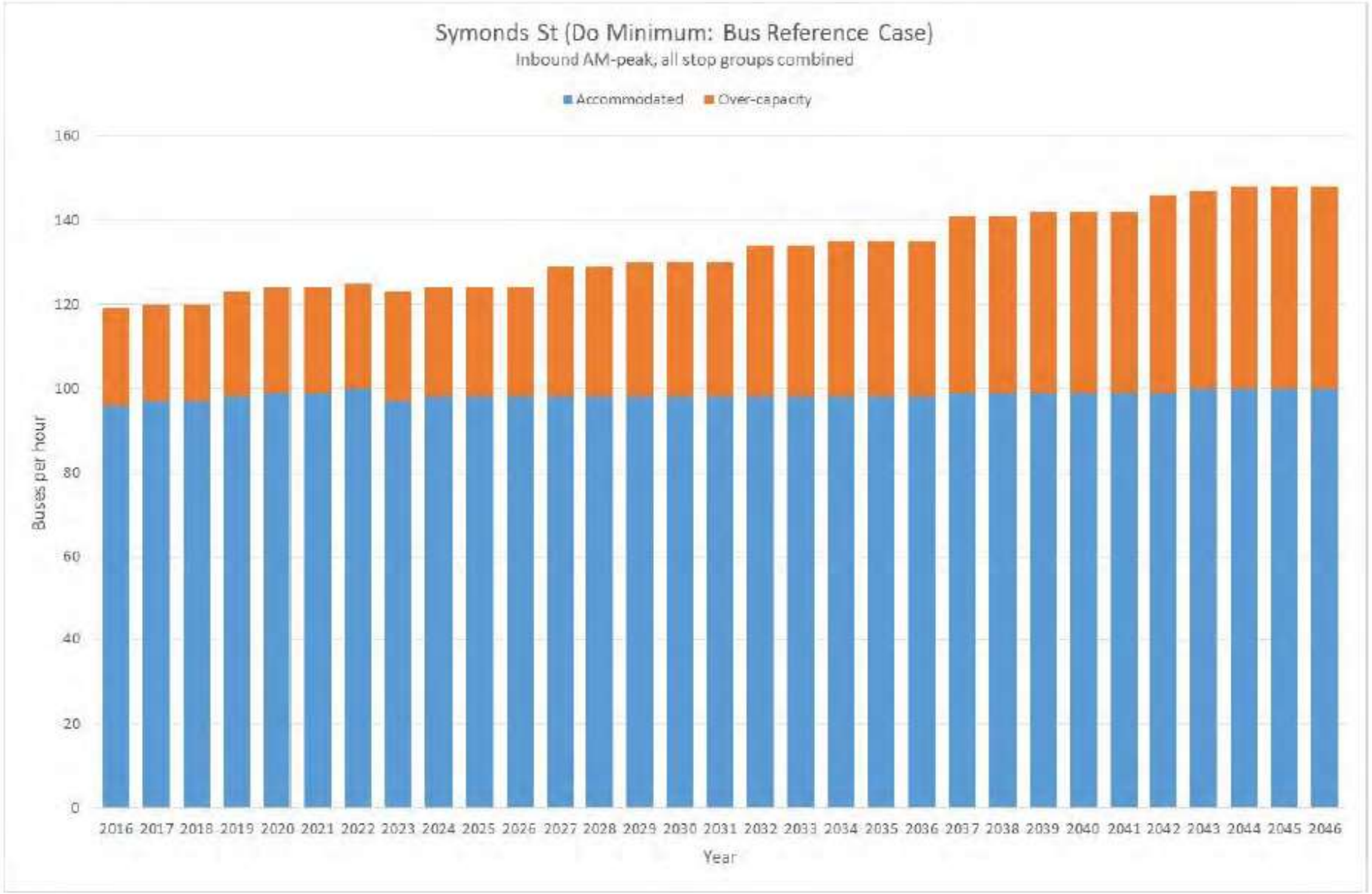
We wish however to congratulate the preliminary investig
completed regarding light rail in Auckland, in particular to
the City Centre Future Access Study (CCFAS) and this subm
on the light rail initiative of the Variation to the RPTP.

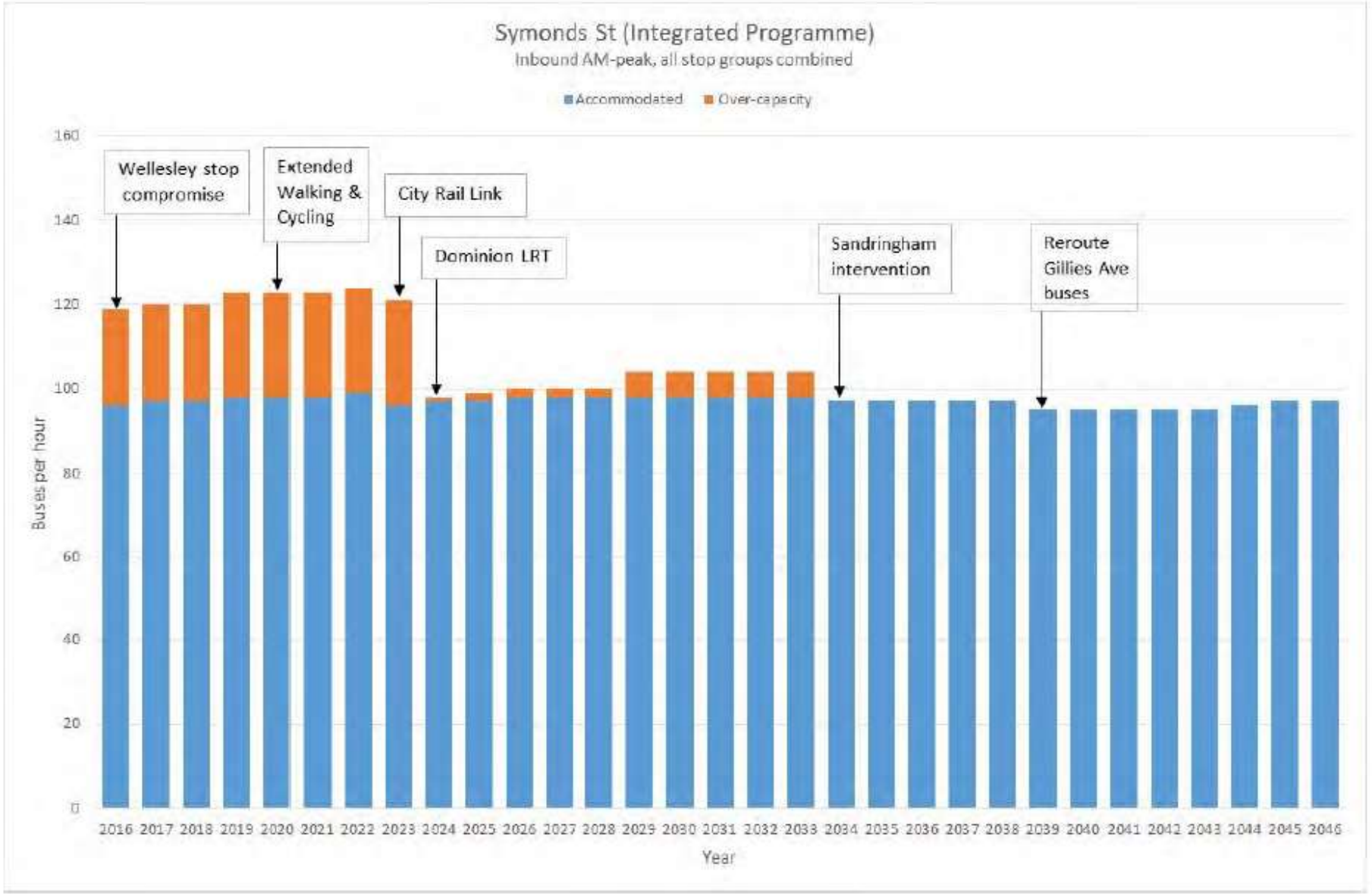
2. **Light Rail Proposals**

The LRTA supports the proposals for a new light rail trans
submission shall appraise the proposal with reference to

2.1) Worldwide Context
2.2) Historical Perspective
2.3) Light Rail Advantages
2.4) Technical Details



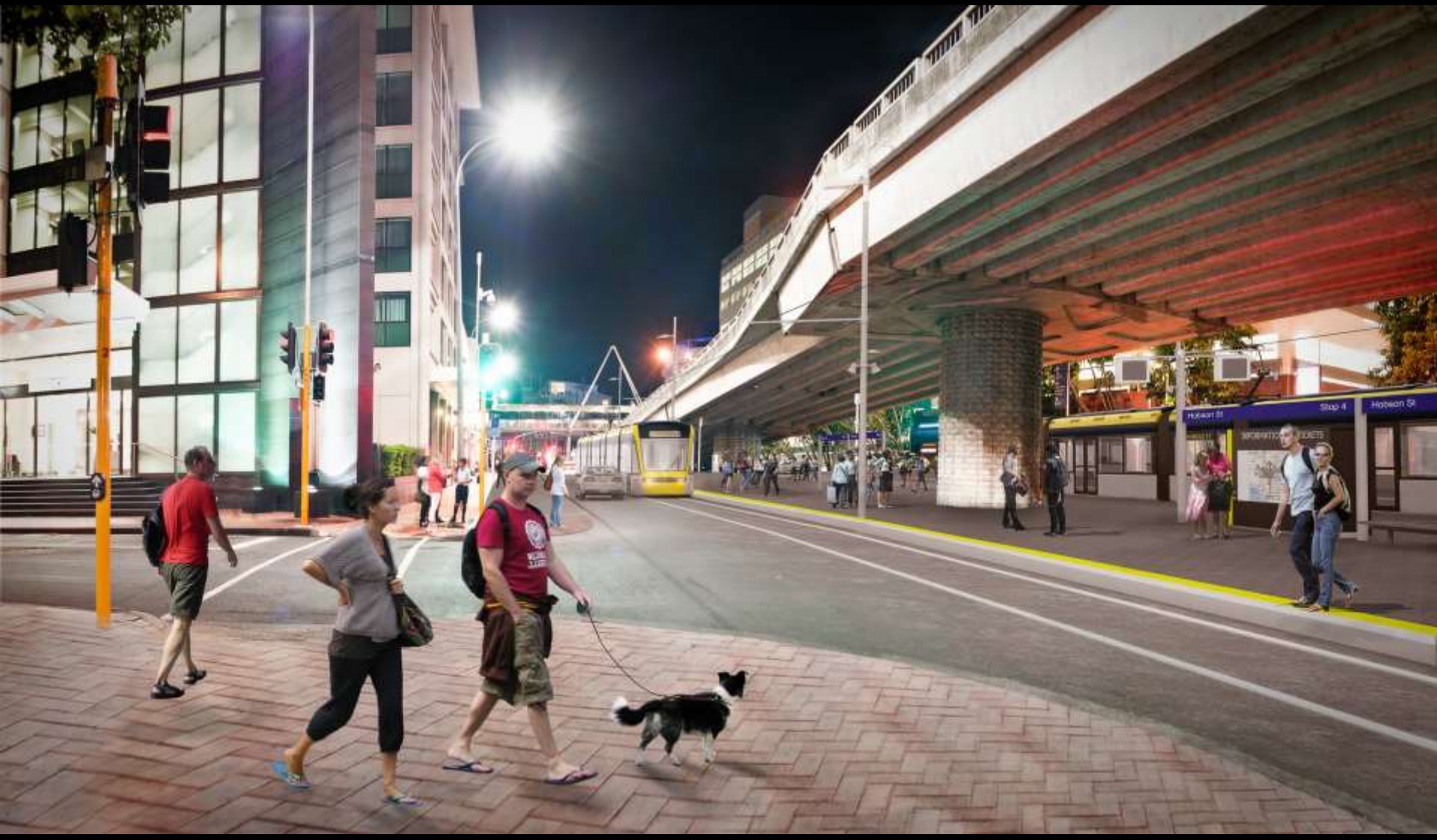

Symonds St (Do Minimum: Bus Reference Case)
Inbound AM-peak, all stop groups combined
Accommodated
Over-capacity
Buses per hour
0
20
40
60
80
100
120
140
160
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046
Year


Symonds St (Integrated Programme)
Inbound AM-peak, all stop groups combined
Accommodated
Over-capacity
Wellesley stop compromise
Extended Walking & Cycling
City Rail Link
Dominion LRT
Sandringham intervention
Reroute Gillies Ave buses
Buses per hour
0
20
40
60
80
100
120
140
160
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046
Year


Daldy St
TICKETS
INFORMATION
DALDY ST
Daldy St
INFORMATION
TICKETS


TRAMS
DALBY ST


KPMG
Grant Thornton
WOF


Hoban St
Stop 4
Hoban St


BRITOMART


Britomart Transport Centre


PARTRIDGE
JEWELLERS
OVERLAND


PARTRIDGE
JEWELLERS



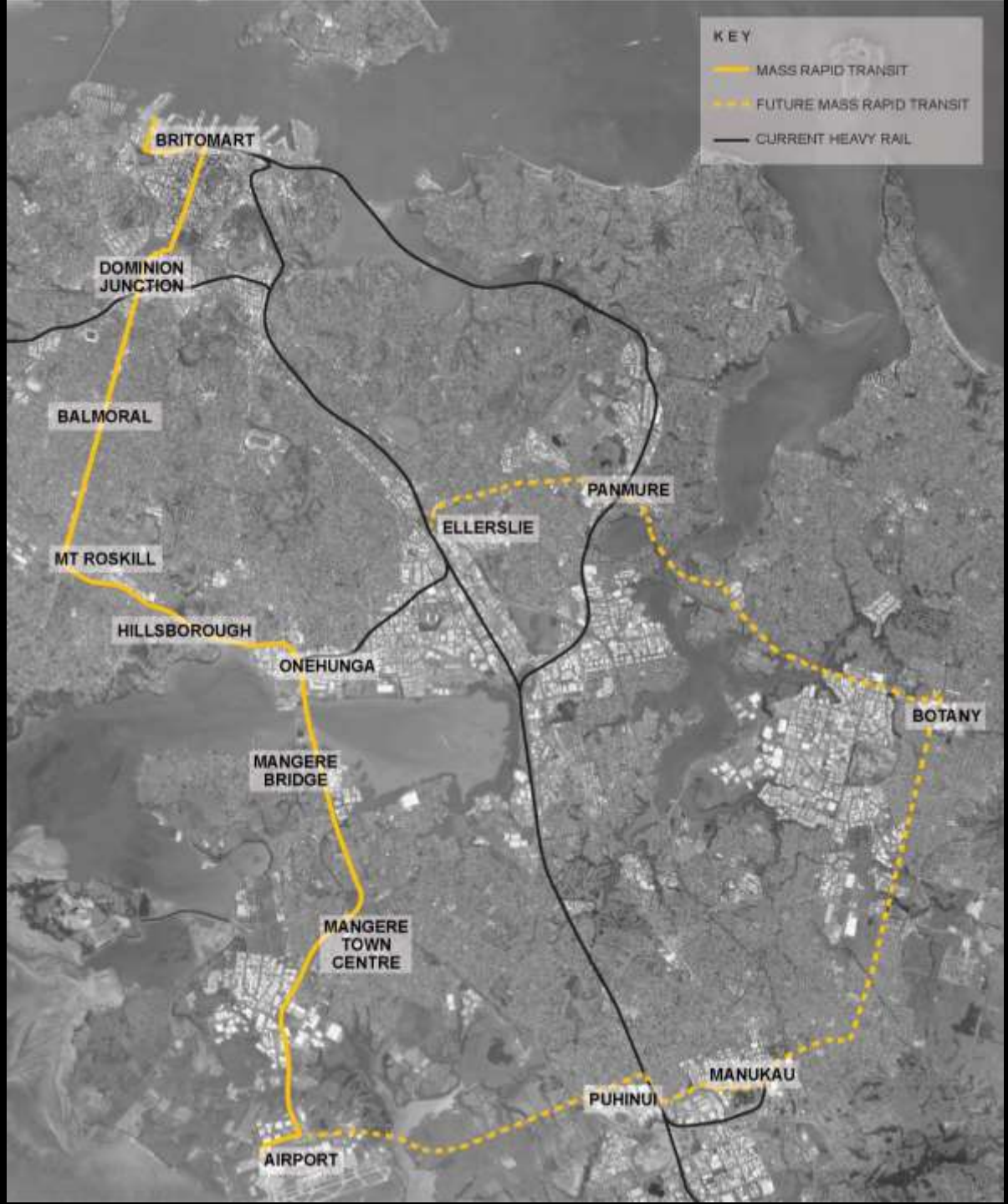

Ranchhod House
192






AUCKLAND LIGHT RAIL


凌典美食
CAFE MANCHURIA


KEY
MASS RAPID TRANSIT
FUTURE MASS RAPID TRANSIT
CURRENT HEAVY RAIL
BRITOMART
DOMINION JUNCTION
BALMORAL
MT ROSKILL
HILLSBOROUGH
ONEHUNGA
MANGERE BRIDGE
MANGERE TOWN CENTRE
AIRPORT
PUHINUI
MANUKAU
BOTANY
PANMURE
ELLERSLIE

Auckland Transport Alignment Project

Recommended Strategic Approach

September 2016



Ministry of Transport
TE MANATŪ WAKA

THE TREASURY

Auckland Council

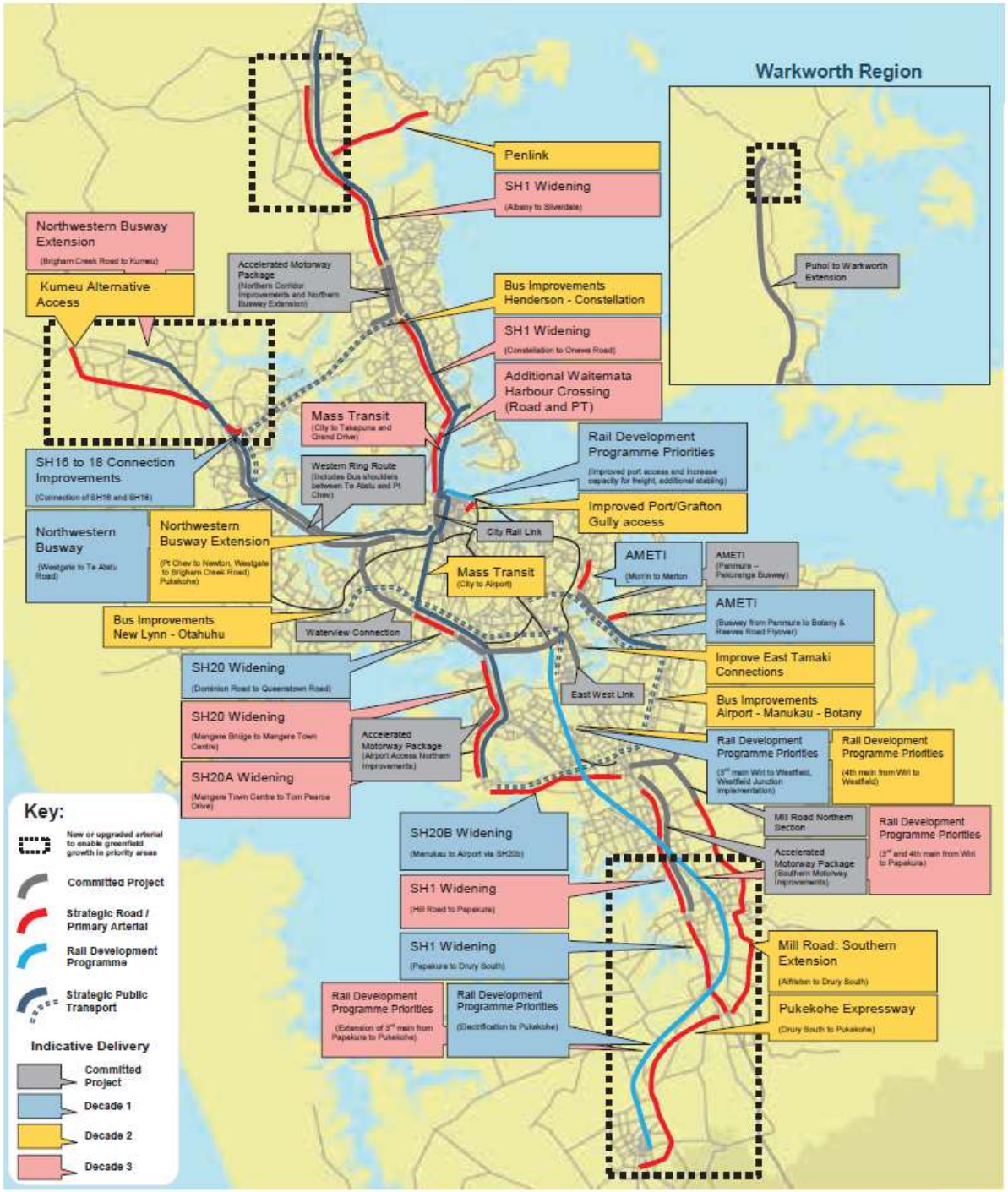
Auckland Transport

STATE SERVICES COMMISSION
Te Komihana O Ngā Tari Kāwanatanga

NZ TRANSPORT AGENCY
WAKA KOTAHI

Early priorities	Medium and longer term priorities

• The City Rail Link will provide benefits for rail passengers through significant reductions in travel times, particularly from the west, improved access to the city centre and increased capacity by removing the current Britomart bottleneck.
• Other key short term improvements likely to be required include:
  ◦ Additional infrastructure including a third track to address key capacity constraints and enable passenger and freight services to operate reliably
  ◦ Additional trains to cater for growing passenger numbers
  ◦ Removal of some road/rail level crossings to better manage safety risks and address road congestion
  ◦ Extension of electrification to Pukekohe to serve growth in the south.
	• Depending on demand, longer term improvements are likely to include:
	  ◦ Providing a fourth track between Wiri and Westfield
	  ◦ Further extension of triple-tracking to Papakura and potentially Pukekohe
	  ◦ Potential extension of the fourth main to Papakura
	  ◦ Further tranches of additional trains and a second depot
	  ◦ Ongoing level crossing removal programme.


Warkworth Region
Puhoi to Warkworth Extension
Penlink
SH1 Widening
(Albany to Silverdale)
Northwestern Busway Extension
(Brigham Creek Road to Kumeu)
Kumeu Alternative Access
Accelerated Motorway Package
(Northern Corridor Improvements and Northern Busway Extension)
Bus Improvements Henderson - Constellation
SH1 Widening
(Constellation to Onewa Road)
Additional Waitemata Harbour Crossing (Road and PT)
Mass Transit
(City to Takapuna and Grand Drive)
Rail Development Programme Priorities
(Improved port access and increase capacity for freight, additional stabling)
SH16 to 18 Connection Improvements
(Connection of SH16 and SH18)
Western Ring Route
(Includes Bus shoulders between Te Atatu and Pt Chev)
Improved Port/Grafton Gully access
Northwestern Busway
(Westgate to Te Atatu Road)
Northwestern Busway Extension
(Pt Chev to Newton, Westgate to Brigham Creek Road) Pukekohe)
City Rail Link
AMETI
(Mt Wellington to Merton)
AMETI
(Panmure – Pakuranga Busway)
Mass Transit
(City to Airport)
AMETI
(Busway from Panmure to Botany & Reeves Road Flyover)
Bus Improvements New Lynn - Otahuhu
Waterview Connection
Improve East Tamaki Connections
SH20 Widening
(Dominion Road to Queenstown Road)
East West Link
Bus Improvements Airport - Manukau - Botany
SH20 Widening
(Mangere Bridge to Mangere Town Centre)
Accelerated Motorway Package
(Airport Access Northern Improvements)
Rail Development Programme Priorities
(3rd main Wiri to Westfield, Westfield Junction implementation)
Rail Development Programme Priorities
(4th main from Wiri to Westfield)
SH20A Widening
(Mangere Town Centre to Tom Pearce Drive)
Mill Road Northern Section
Rail Development Programme Priorities
(3rd and 4th main from Wiri to Papakura)
Accelerated Motorway Package
(Southern Motorway Improvements)
SH20B Widening
(Manukau to Airport via SH20b)
SH1 Widening
(Hill Road to Papakura)
SH1 Widening
(Papakura to Drury South)
Mill Road: Southern Extension
(Alfriston to Drury South)
Pukekohe Expressway
(Drury South to Pukekohe)
Rail Development Programme Priorities
(Extension of 3rd main from Papakura to Pukekohe)
Rail Development Programme Priorities
(Electrification to Pukekohe)
Key:
New or upgraded arterial to enable greenfield growth in priority areas
Committed Project
Strategic Road / Primary Arterial
Rail Development Programme
Strategic Public Transport
Indicative Delivery
Committed Project
Decade 1
Decade 2
Decade 3


ANTIQUES