

Auckland Rapid Transit Study

Unlocking the potential of the Auckland's rapid transit network

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Delivering a better world



2.6m

Tāmaki Makaurau is expected to grow to 2.6mil people by 2050, which means we need to plan for a much higher population.

64%

The Transport Emissions Reduction Plan's (TERP) target for reducing transport emissions by 2030. This work will help inform the mode shift investment required for reaching this goal.

45 🚊 12 📾 24 📟

The total (81) number of transit stations (59 existing and 22 future) that have been assessed as part of this study.

1m+

Based on recent <u>zoning changes</u>, the maximum additional population growth that can be accommodated within the station catchments across the existing and committed rapid transit network.



The Network Experience

Understanding the Customer Journey

Station Experience

- <u>The station experience</u> incorporates access, waiting, egress, and various components of customer experience
- 2. <u>The catchment experience</u> travelling to and from the station (first and last leg)
- 3. <u>The network experience</u> provides the ability to go places and do things, connecting customers from one neighborhood to the next.





- There are many moving components to a customer journey.
- People will struggle to access transit if there are no quality transit and active mobility solutions within the catchment.
- It is important to have holistic design of customer experience from origin to destination



A story of <mark>growth</mark> for Tāmaki Makaurau

700,000 extra people by 2050

313,000 new homes by 2050

40% of New Zealand's GDP

Net-Zero carbon emissions by 2050 This growth needs to achieve multiple goals....



Housing Choice & Affordability



Better Employment Opportunties

Strong Access & Mobility



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Sustainability & Low Carbon

Healthy & Active Populations



Safer & Cohesive Communities



Imagining an Integrated Strategy...

The NPS-UD is a strong first step



traffic and transport emissions.

aecom.com

Source: MHUD

Maungawhau Station - Tāmaki Makaurau Auckland



Kāinga Ora, Eke Panuku, Auckland Council, and City Rail Link Ltd are collaborating to develop a transit-oriented community above the new Maungawhau Station.

Location

Tāmaki Makaurau

Construction 2016 - 2024+

Lead Agencies

Kāinga Ora, City Rail Link Ltd, Auckland Council and Eke Panuku

Key Points

- Mixed use development on land that was aquired as part of the CRL construction
- The development includes a mix of high density housing, offices, shops, restaurants and public spaces.





Strategic Alignment

Policies, plans and strategies exist at:

- The station level
- The catchment level
- The network/regional level

To better understand this, we need to visual all these policies, plans and strategies happening at all the levels.

This demonstrates the complexity of developing transit-oriented communities and the need for an integrated assessment tool



An integrated assessment tool

- The tool allows public and private stakeholders to better collaborate
- There are various organisations that have different roles and functions
- Allows the various actors and stakeholders to begin to see the bigger picture

The next steps..

- The key outcomes of the study could be used to inform:
 - Policy
 - Business Cases
 - Funding directions for various organisations
 - And more!
- Plays a part in the long journey towards thriving communities around transit in Tāmaki Makaurau









Key metrics for each wedge

6 metrics within this wedge, covering:

- Frequency (RTN and feeder)
- Service hours
- Transfer Experience
- Access to rest of RTN network

Each wedge has their own set of metrics, for over 30 metrics total!



Station Typologies



↔ aecom.com



Akoranga Catchment Analysis



Other Parking

12/15

*As at 15 September 2022



↔ aecom.com



High level findings and interventions

Staged Interventions Short-Term Medium-Term Long-Term Improve Active Mode Access + Safety **\$ *** Increase Walkable Catchment Fully built-out active mode network Improve Transfer Experience (A) Improve end to end transfer experience Improve RTN and Feeder Bus Frequency Frequent bus routes in all possible directions from station Dedicated interchange facility where strategic intent requires Implement Parking Management Reallocation of road space to PT and active modes Redevelopment of surface level car parking into high density development Enable Greater Density Better utilise land around stations Develop long-term masterplans for station catchment Implement long term plan and redevelopment of publicly owned land Improve Wayfinding

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Fully optimise the station experience

Fully build out station based on strategic requirement



Further Information and Readings...



The original inspiration for the adapted butterfly model

AOTEAROA LIPBAN STREET

AOTEAROA URBAN STREET PLANNING & DESIGN GUIDE

He Whenua, He Tangata

FINAL DRAFT







Rethinking Station Precincts

How to create great precincts around rail stations, and why this matters for Sydney

April 2022

