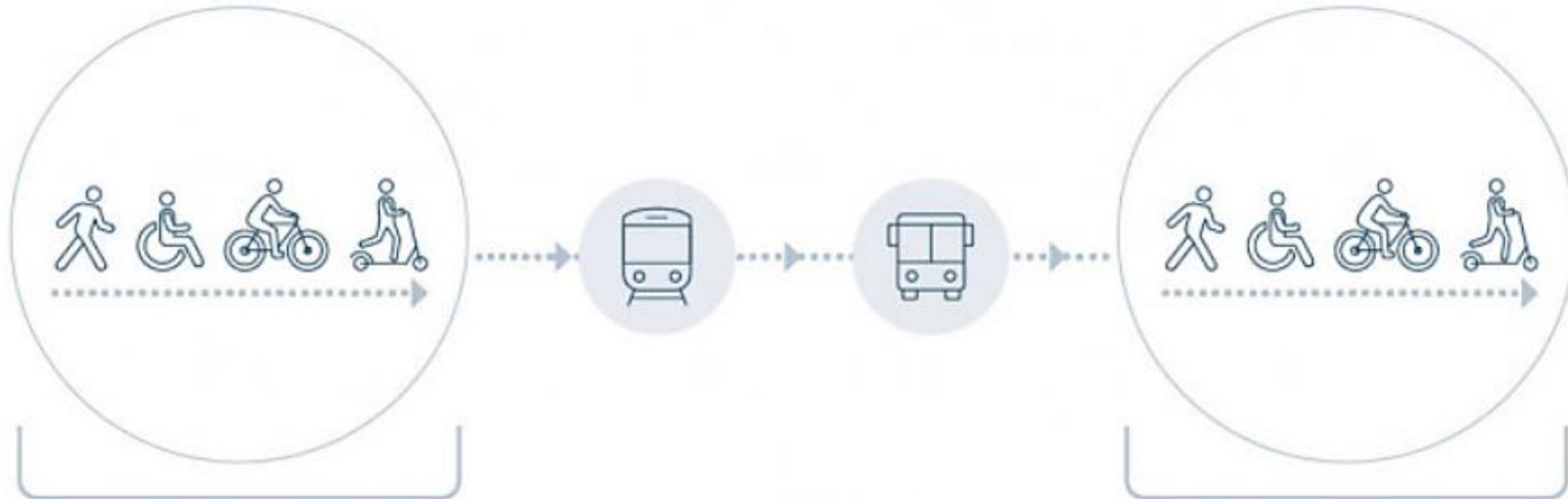
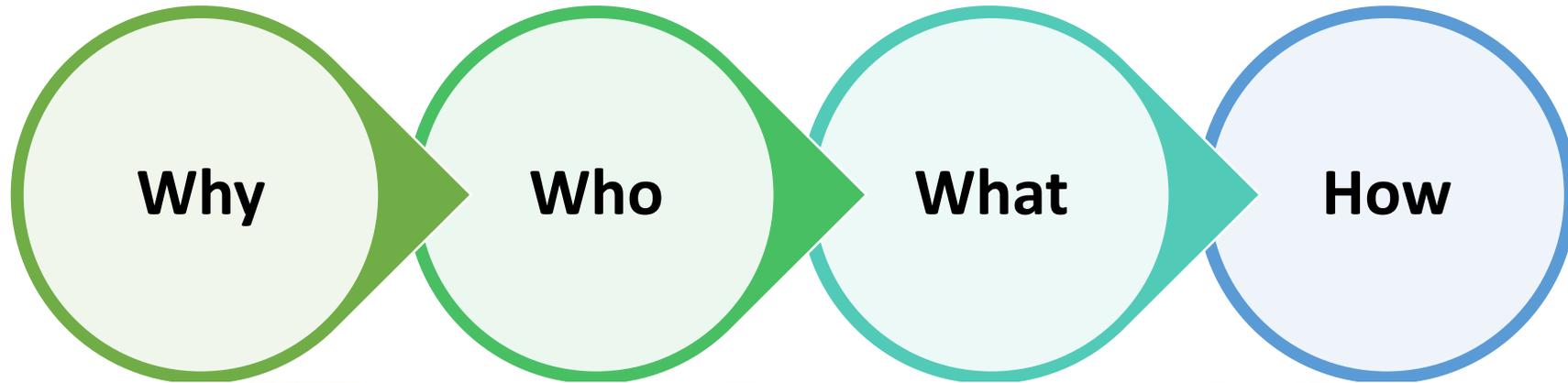


# How can the journey to and from public transport be improved?



First leg

Last leg

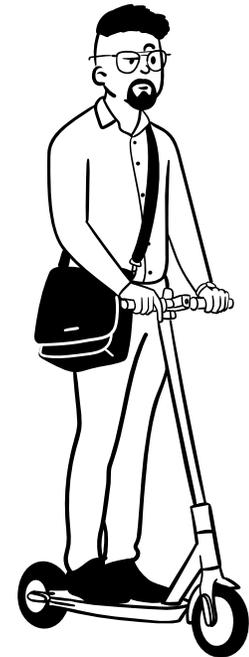
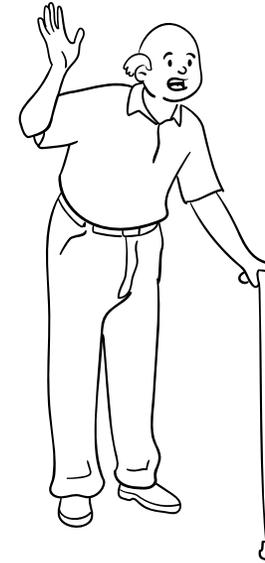


**First leg  
(getting to public transport)**

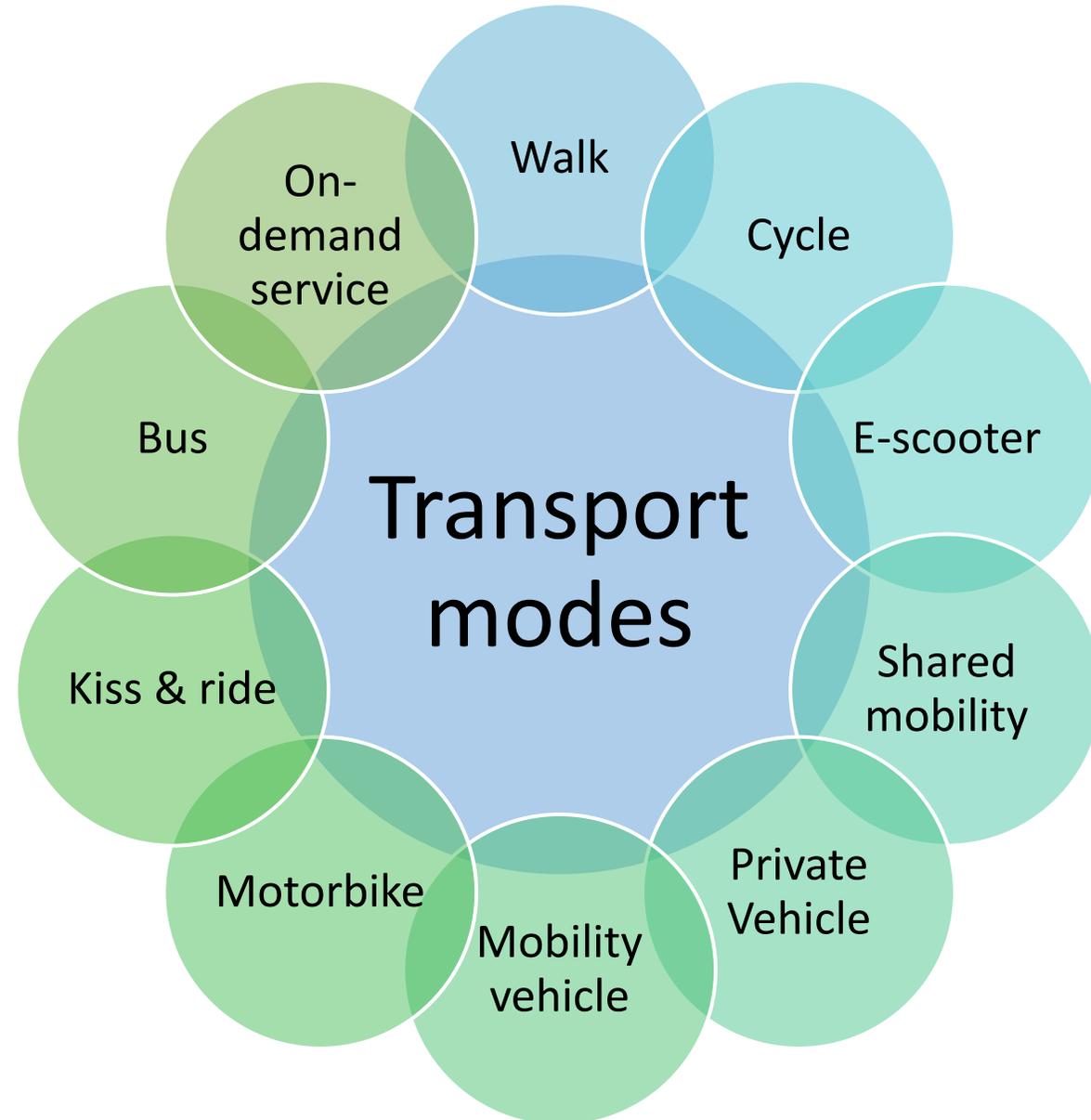
**Last leg  
(from public transport)**



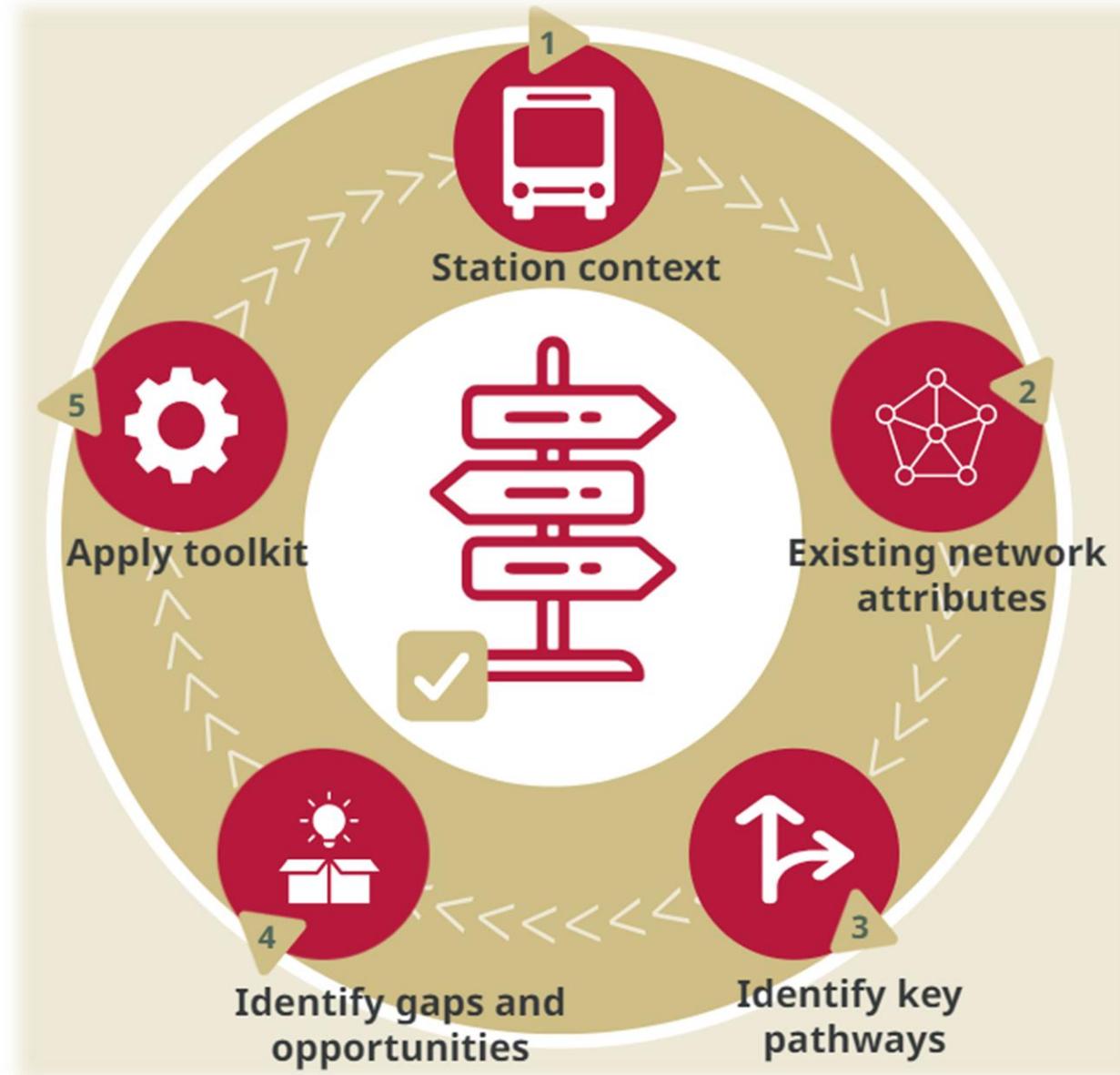
# Who is the customer?



# What are the transport modes?



# How?



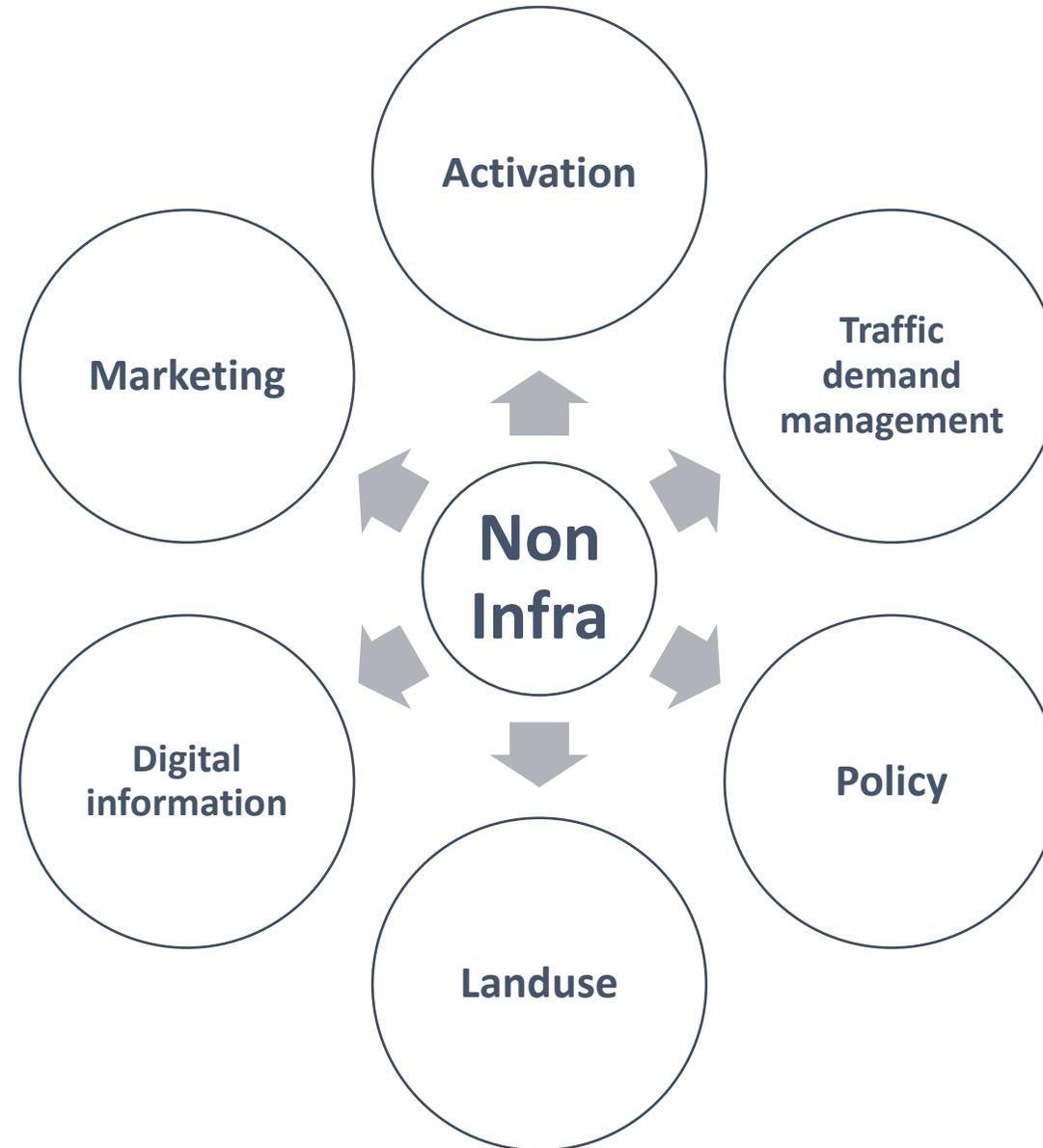
# How?

## 1. At the station

- Safety and security
- End-of-trip facilities
- Universal design
- Utilising parking spaces (PUDO, shared mobility, bike parking, etc.)

## 2. Key pathways

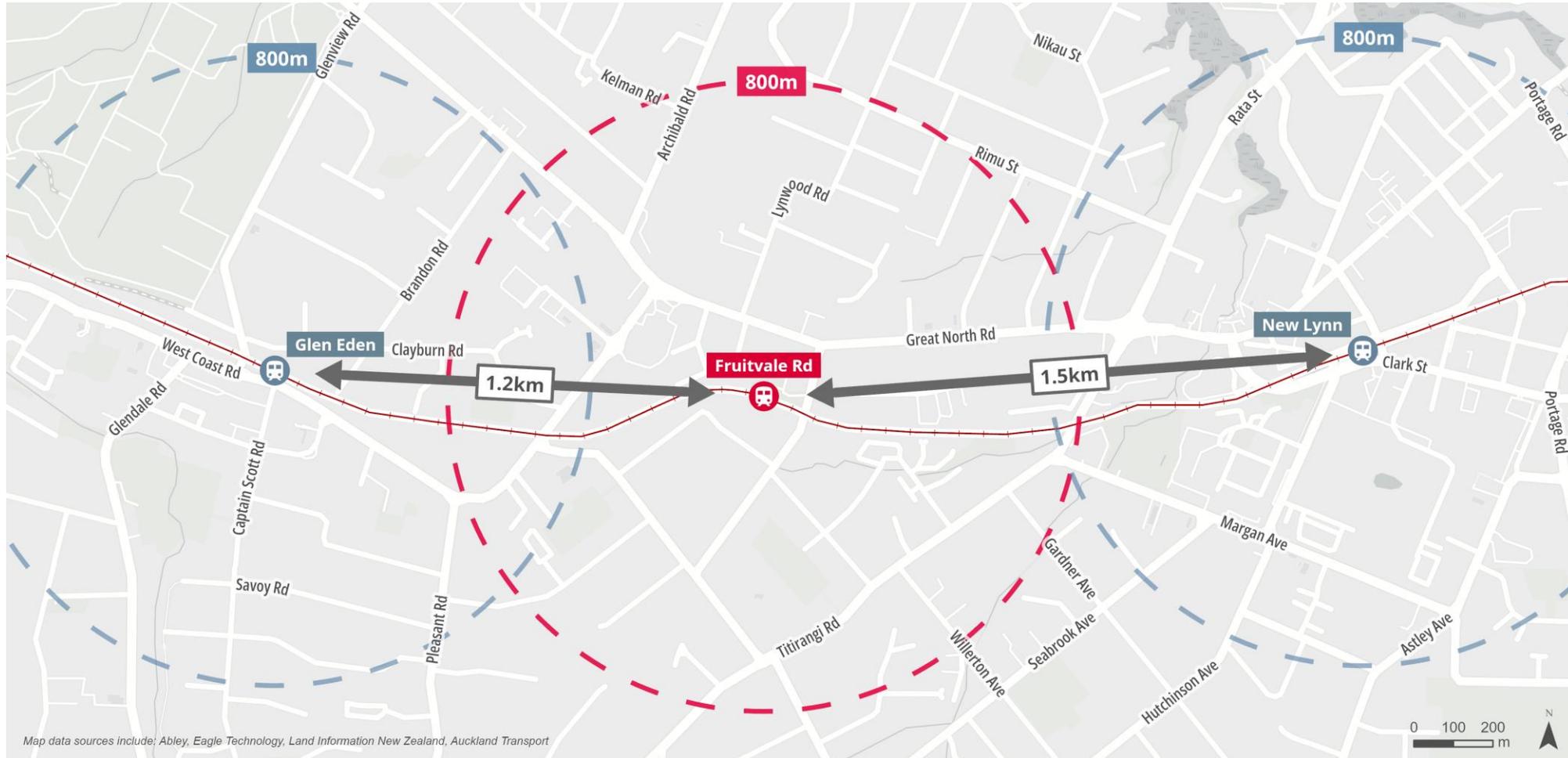
- Catchment area
- Connectivity to key destinations and access points
- Improvement of walking and cycling facilities
- Wayfinding
- Public transport and bus connections



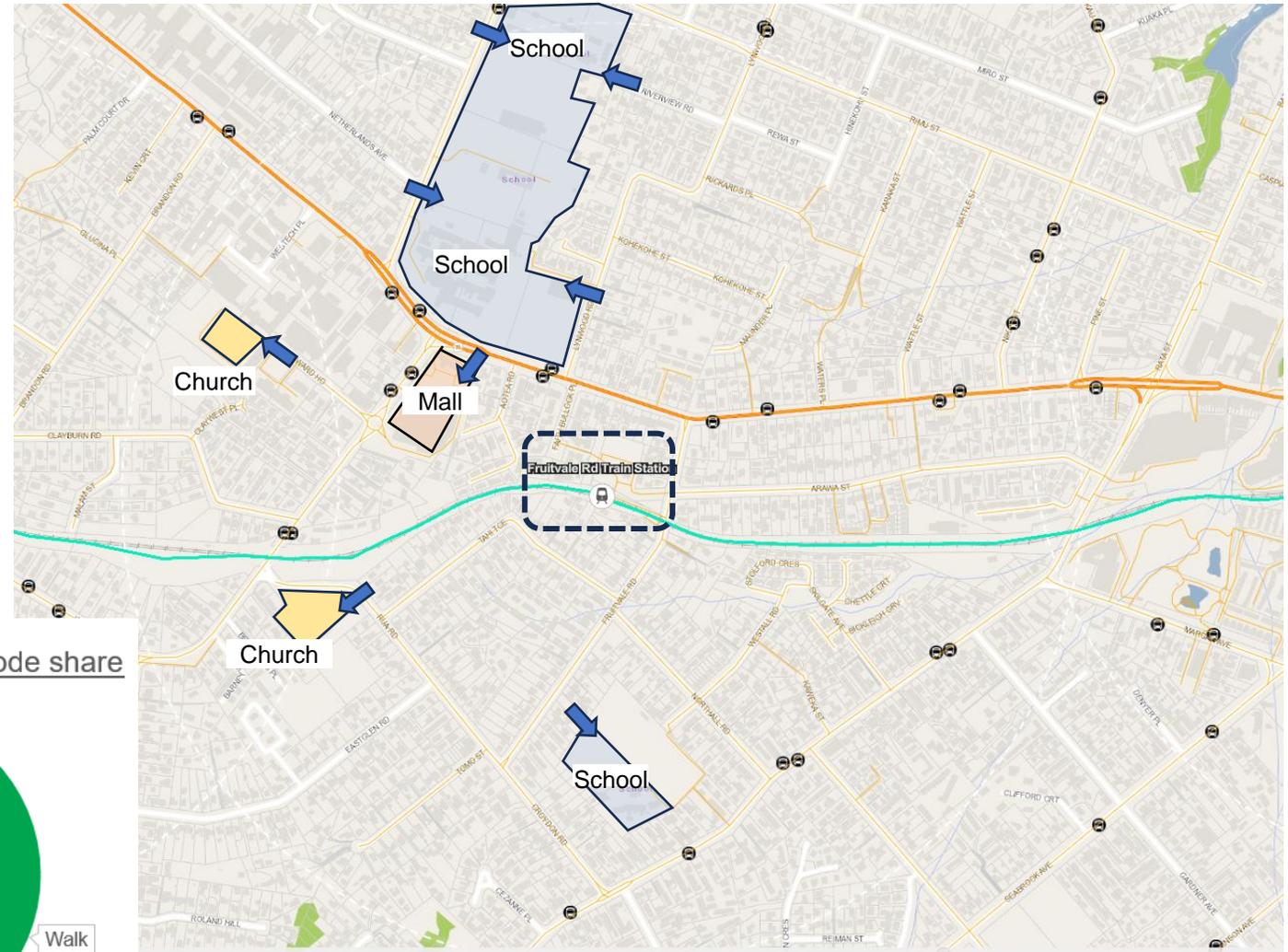


# Sample station

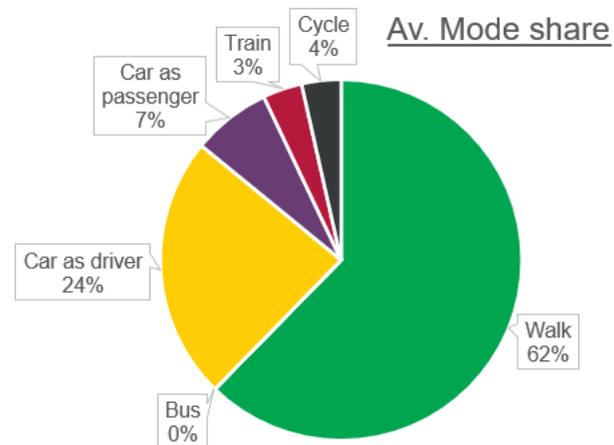
## Fruitvale Road Train Station



# Station context

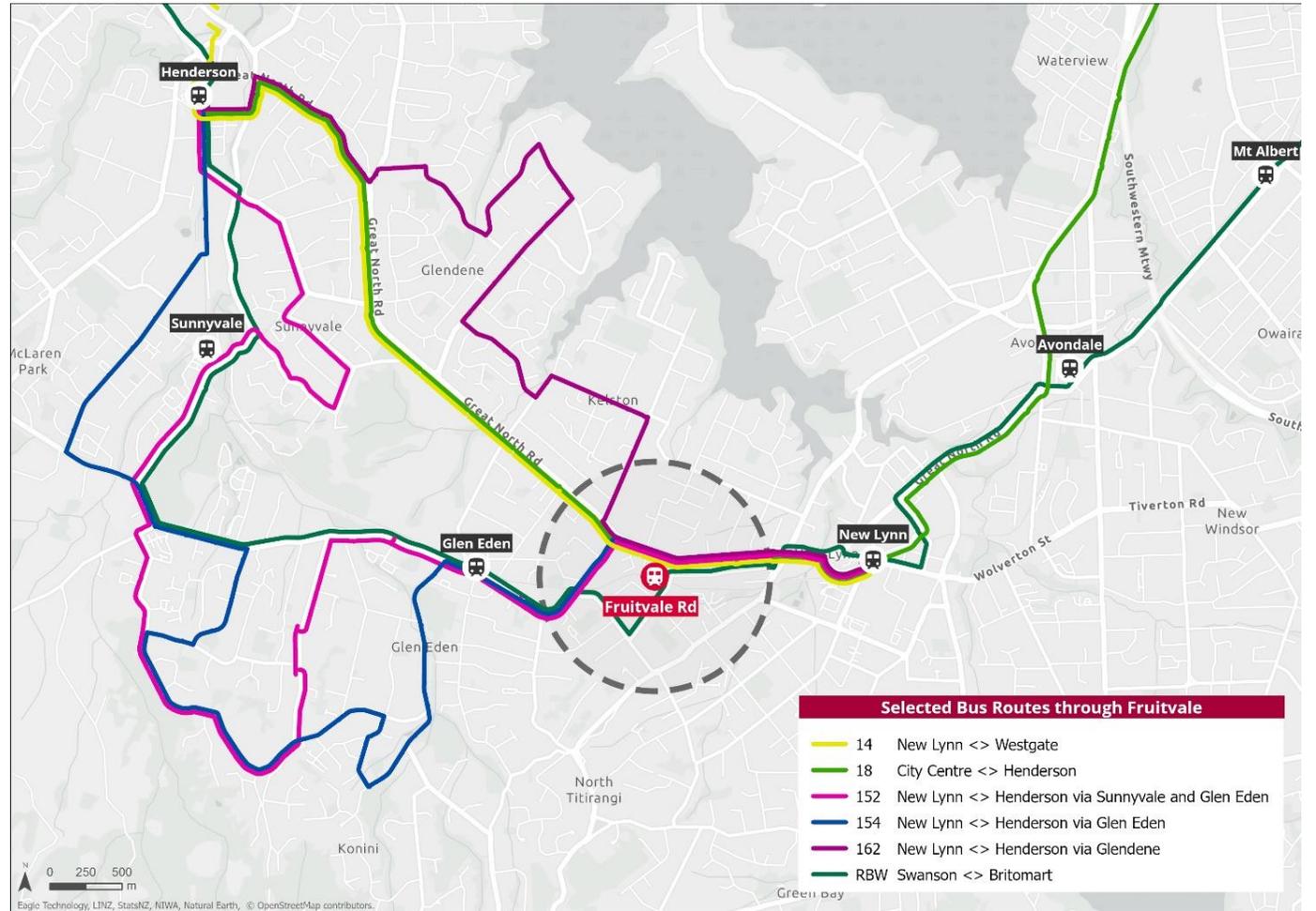


- Land use
- Population
- Patronage
- Travel mode

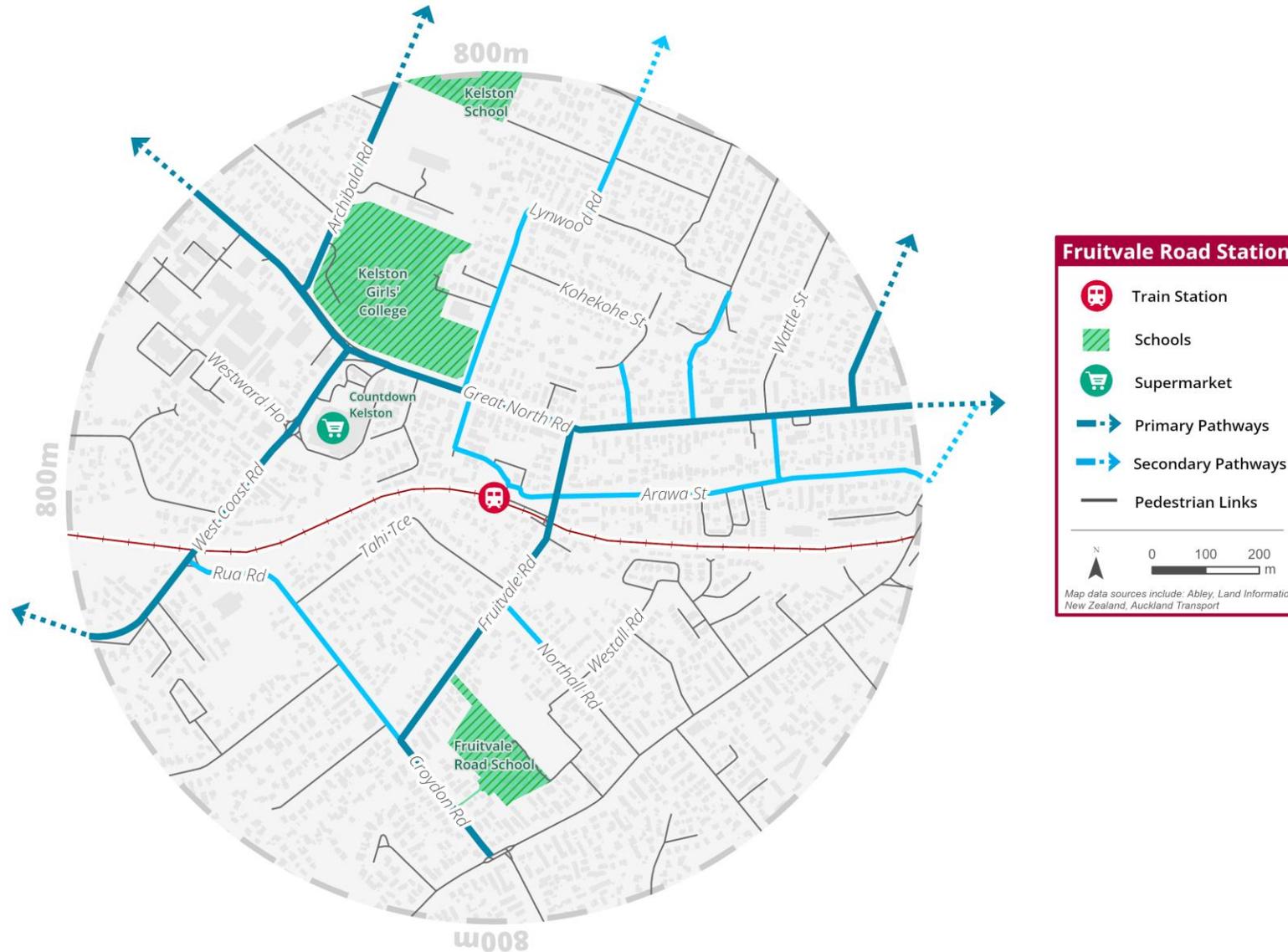


# Existing network attributions

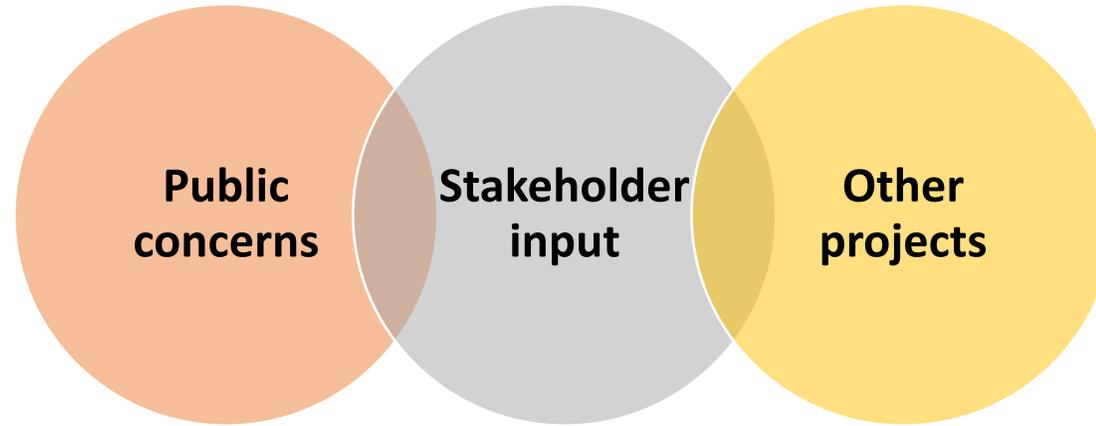
- Road function & street category
- Operating speed
- Crash history
- Existing walking and cycling network



# Key pathways



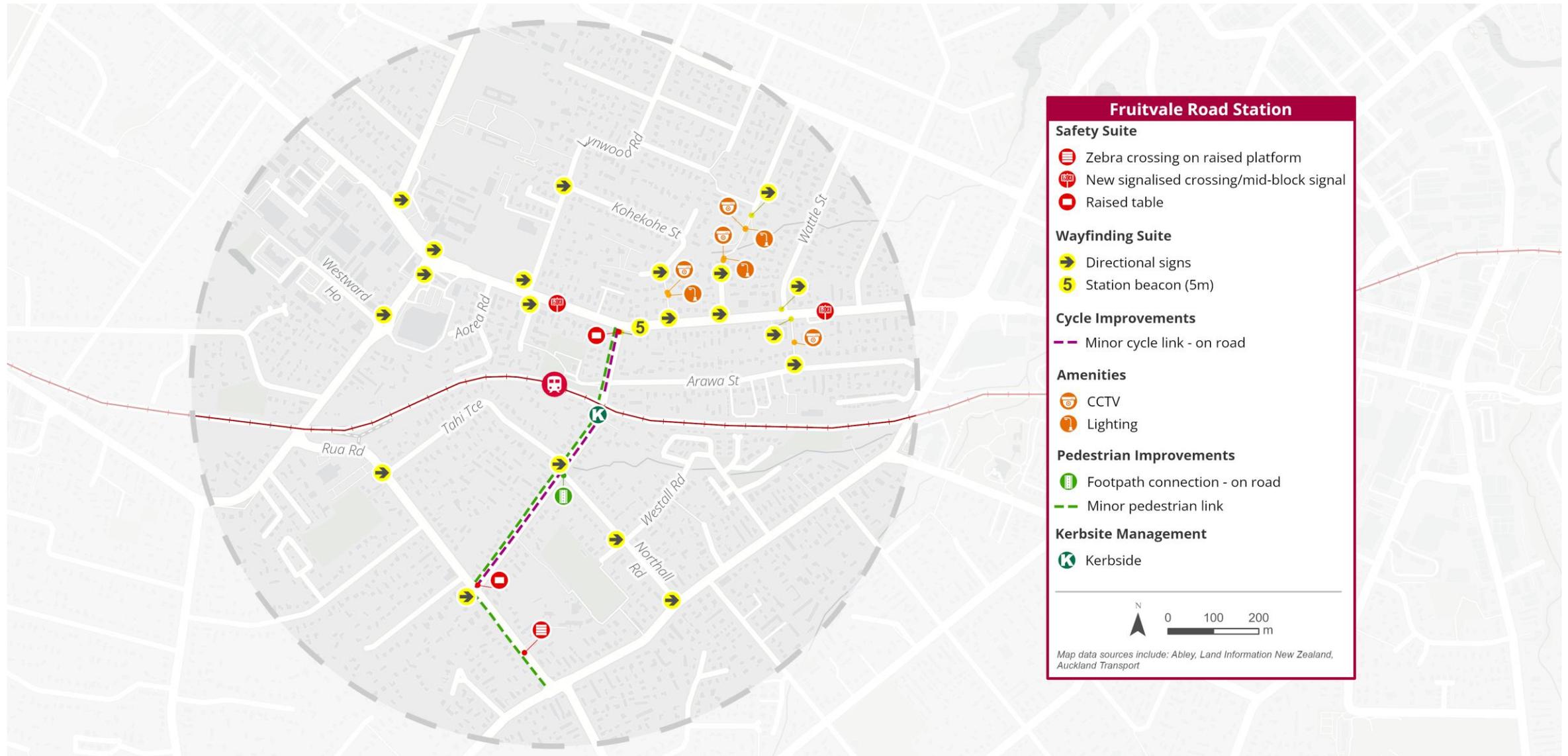
# Gaps and opportunities



# At the station



# Along the pathways



# Sample station – SmartMaps

The screenshot displays the SmartMaps web application interface. At the top, the browser address bar shows the URL: `experience.arcgis.com/experience/0f98e01d975144a487c1cff3d770a95e/page/Overview-Map?data_id=widget_28_output_771329697670053%3A678%2CdataSource_3-18648ca5460-layer-6%3A184%2Cwidget_28_output_4907692953783245%3A91%2Cdcat...`. The application title is "abley First and Final Leg - Smart Maps". The navigation menu includes: Overview Map, Dashboard, Project Sidewalk, Editor, Data Check, Review, Cycle / Pedestrian, and IPV and Bus Frequency.

The main map area shows Auckland, New Zealand, with various transit routes overlaid. A prominent cyan route is visible, along with yellow highlighted areas. The map is surrounded by a legend on the left and navigation controls at the top and bottom.

**Legend:**

- Footpaths RAMM
- Bus Transit Service Frequency
- Bus Frequency GTFS
- IPV Layers
- Pedestrian Crossing
- Speed Hump
- Bus Service
- Train Service
- Interventions
- Public Owned Land
- Public Owned Land
- Project Sidewalk
- Roads Status
- Furniture and Assets
- Walking RTN
- Cycle RTN
- Recommended Cycle Routes RTN
- Micromobility for Future Connect
- Cycling and Micromobility Investment Programme
- PT RTN
- Car RTN
- PTM Survey
- Catchments
- NZ Light Grey Canvas (Vector)

At the bottom of the map, there are buttons for "Bookmark", "Filter", and "Coordinat...".

Footer text: "Eagle Technology, LINZ | Eagle Technology, LINZ, StatsNZ, NIWA, Natural Earth, © OpenStreetMap contributors." and "Powered by Esri".

- 1) Every station is different but there are standard interventions that can be implemented at all stations
- 2) Identifying FLL pathways has proved to be an effective way for targeted interventions
- 3) Using a smart tool to compile the existing, committed and planned projects spatially helps
- 4) Standard interventions with agreed unit rates and benefits would make developing a business case efficient

# Thank you!

## Any questions?



First leg

Last leg

# Presenters



**Debajeet Baruah**

Associate Transport  
Planner

Strategy & Planning, Abley



**Xinghao Chen**

Senior Transportation  
Engineer

Safe Systems, Abley

**Presentation Name Date**

---

**Auckland**

Level 1/70 Shortland Street  
Auckland 1010  
Aotearoa New Zealand

**Wellington**

Level 1/119-123 Featherston Street  
Wellington 6011  
Aotearoa New Zealand

**Christchurch**

Level 1/137 Victoria Street  
PO Box 36446, Merivale  
Christchurch 8146  
Aotearoa New Zealand

**hello@abley.com**

**+64 3 377 4703**

**abley.com**