

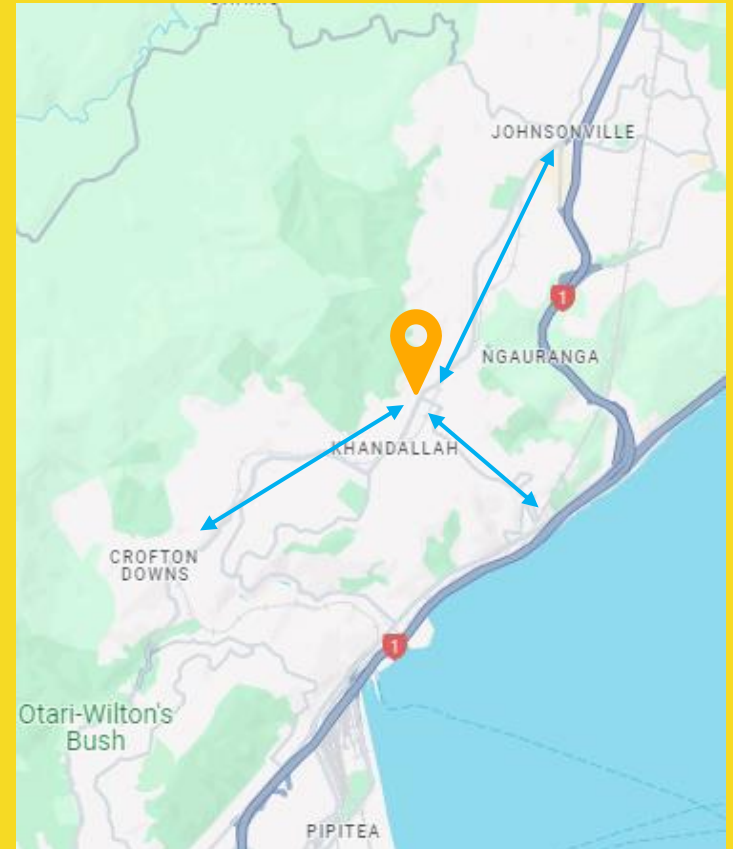


Box Hill - Station Rd Intersection Improvement

Jocelyn Zhang – Team Leader Project Management
April 2024

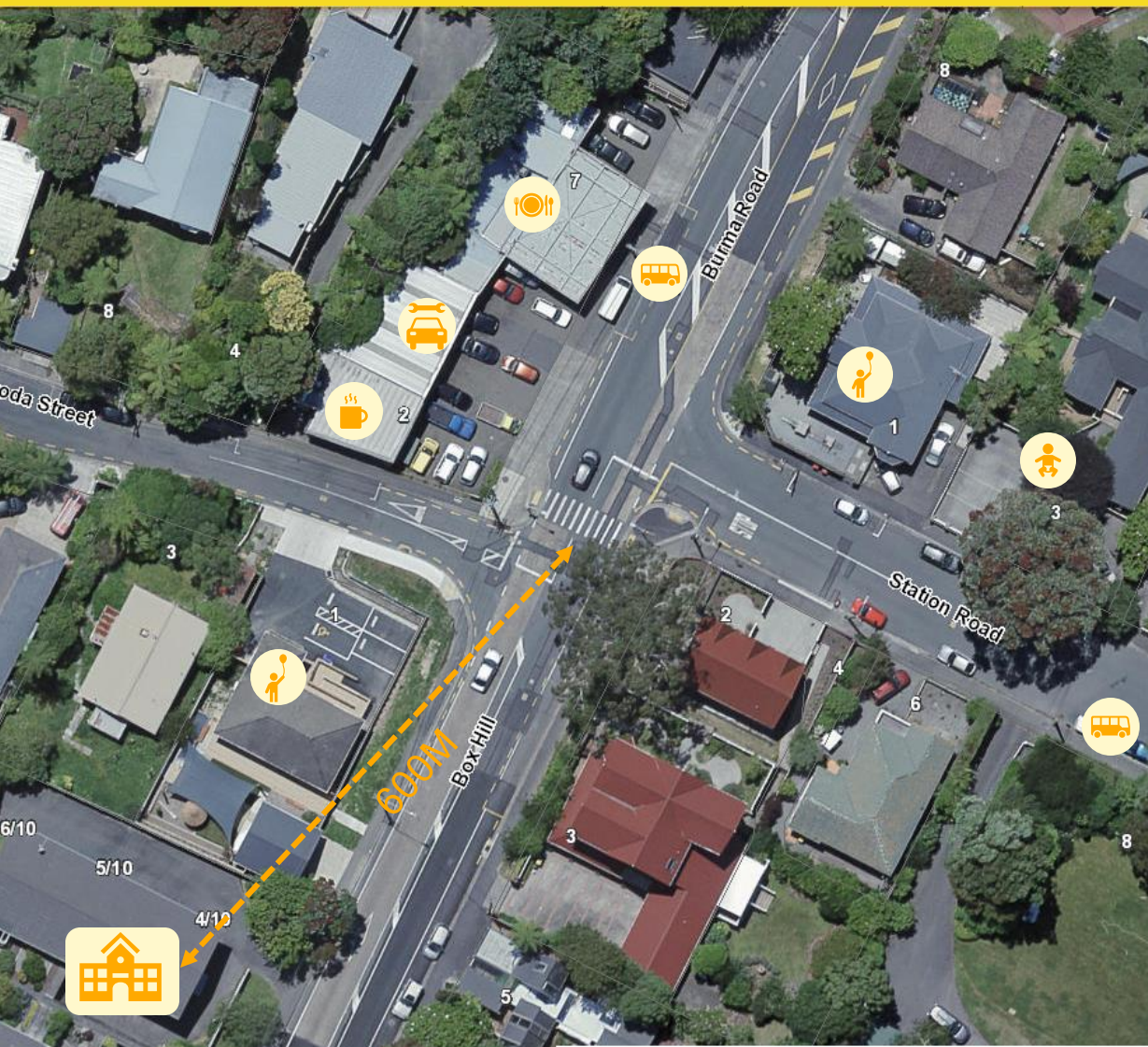
Background

E-petition with 129 signatures raising safety concern in 2019



5 Top Reasons people were CONCERNED

Site Feature



1

Congestion(81%)

Vehicle congestion during peak time



2

Turning(77%)

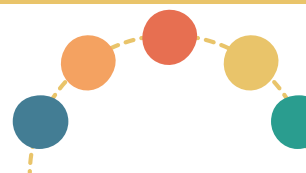
Vehicle turning unsafely



3

Speeding(75%)

Vehicle speeding through the intersection



4

Zebra Crossing(70%)

Vehicles not stopping at the zebra crossing

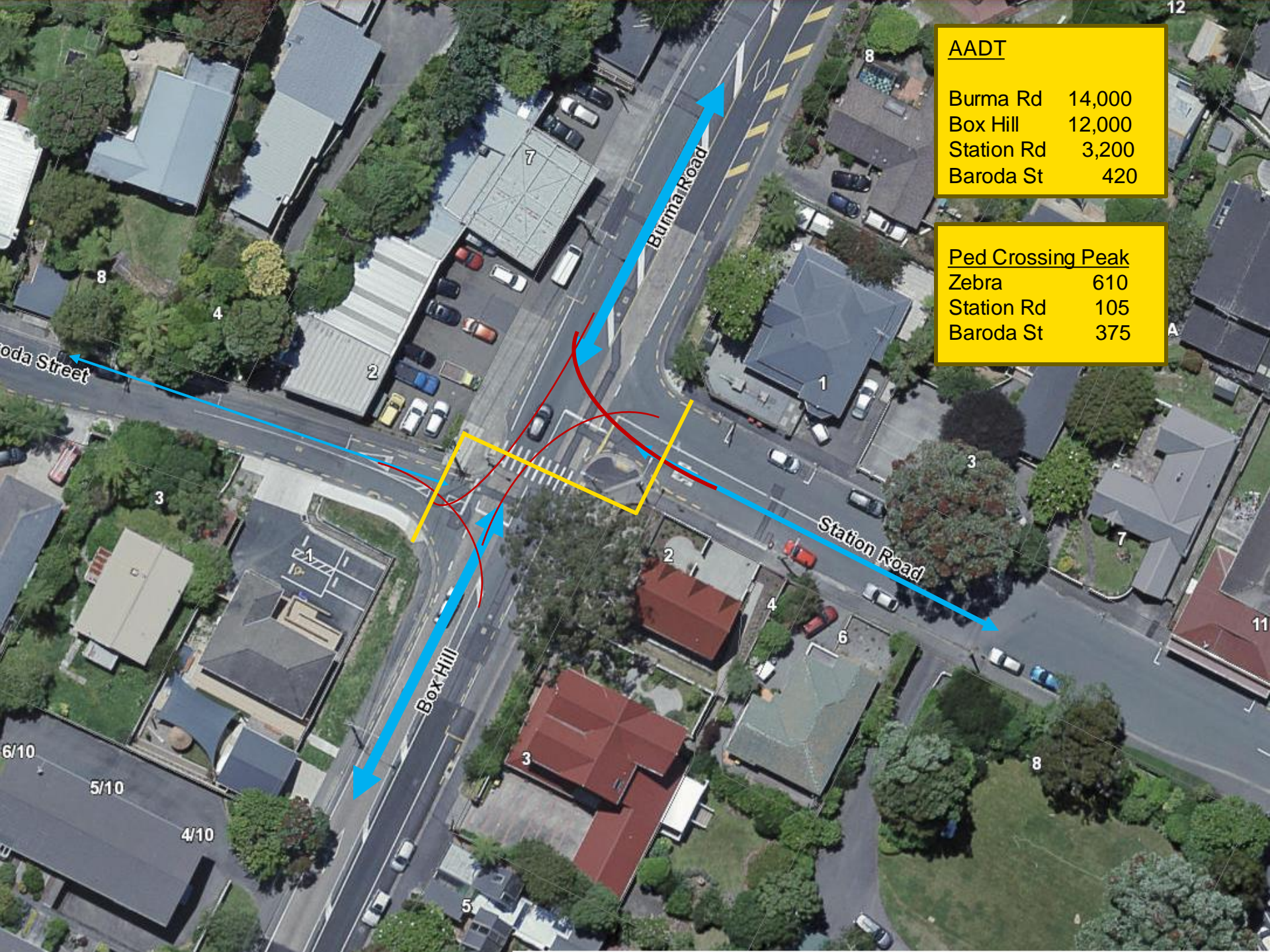


5

Complexity(67%)

Busy activity on road and footpath

Primary safety concerns on active mode users



AADT

Burma Rd	14,000
Box Hill	12,000
Station Rd	3,200
Baroda St	420

Ped Crossing Peak

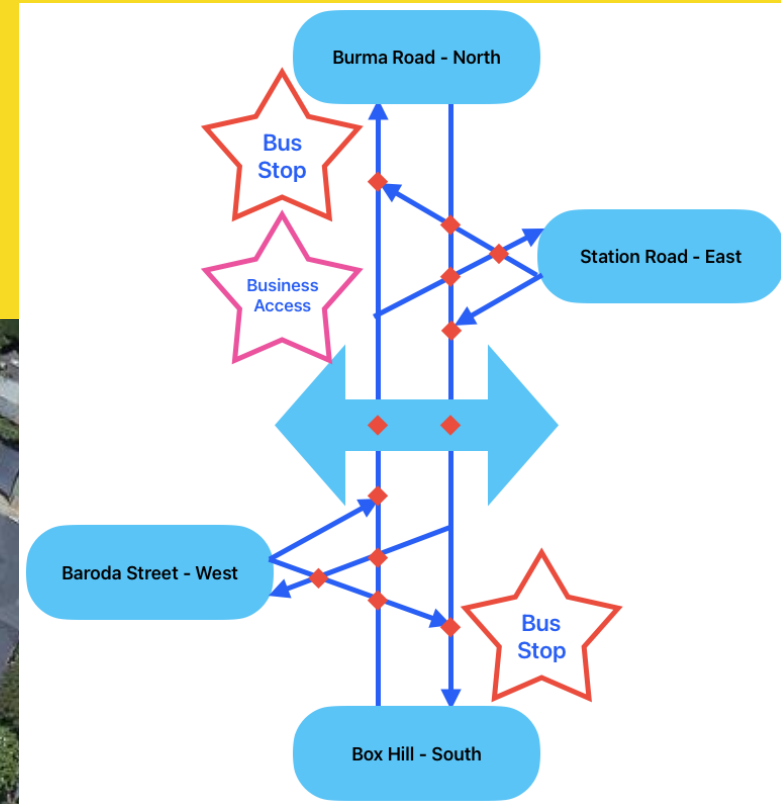
Zebra	610
Station Rd	105
Baroda St	375

Problem Analysis

Problem 1 – Safety Issue



User **confusion, complex layout** and **high demand** are resulting in an unsafe environment for users

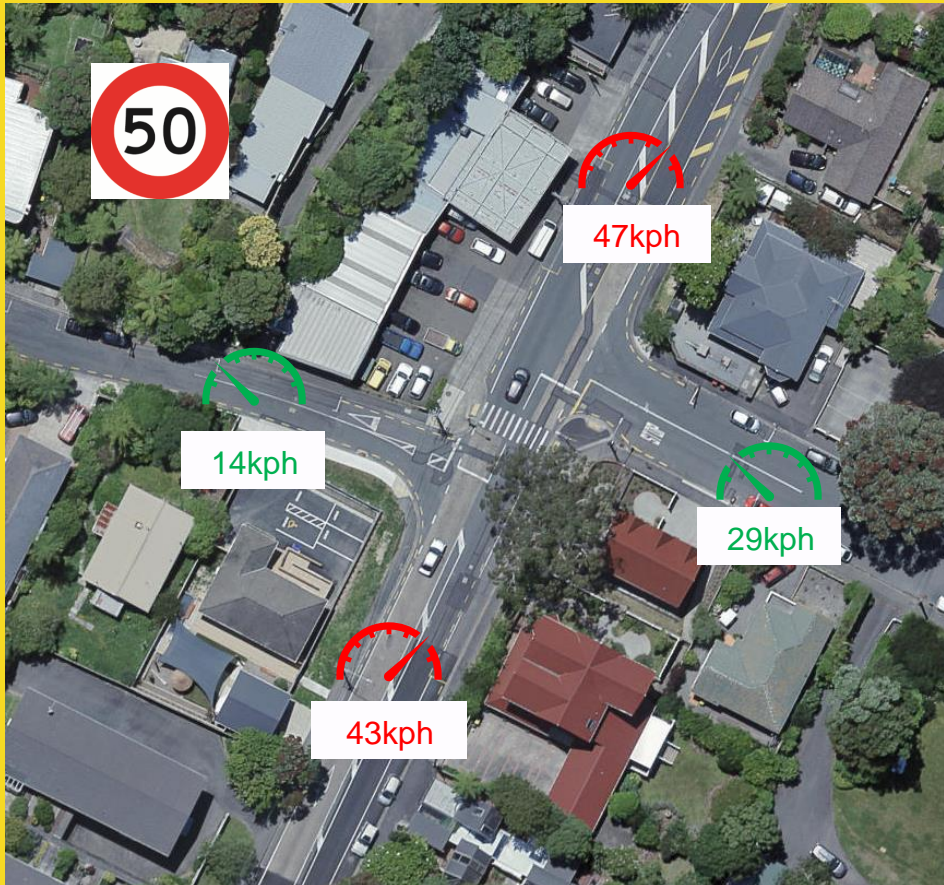


More than 12 Conflict Points













Problem Analysis

Absolutely Positively
Wellington City Council
Me Heke Ki Pōneke

Problem 2 – Speed Issue



Death and injury risk percentages

IMPACT SPEED Kmh		DEATH Percentage risk
30	 	 10%
40	 	 32%
50	 	 80%
60	 	 95%

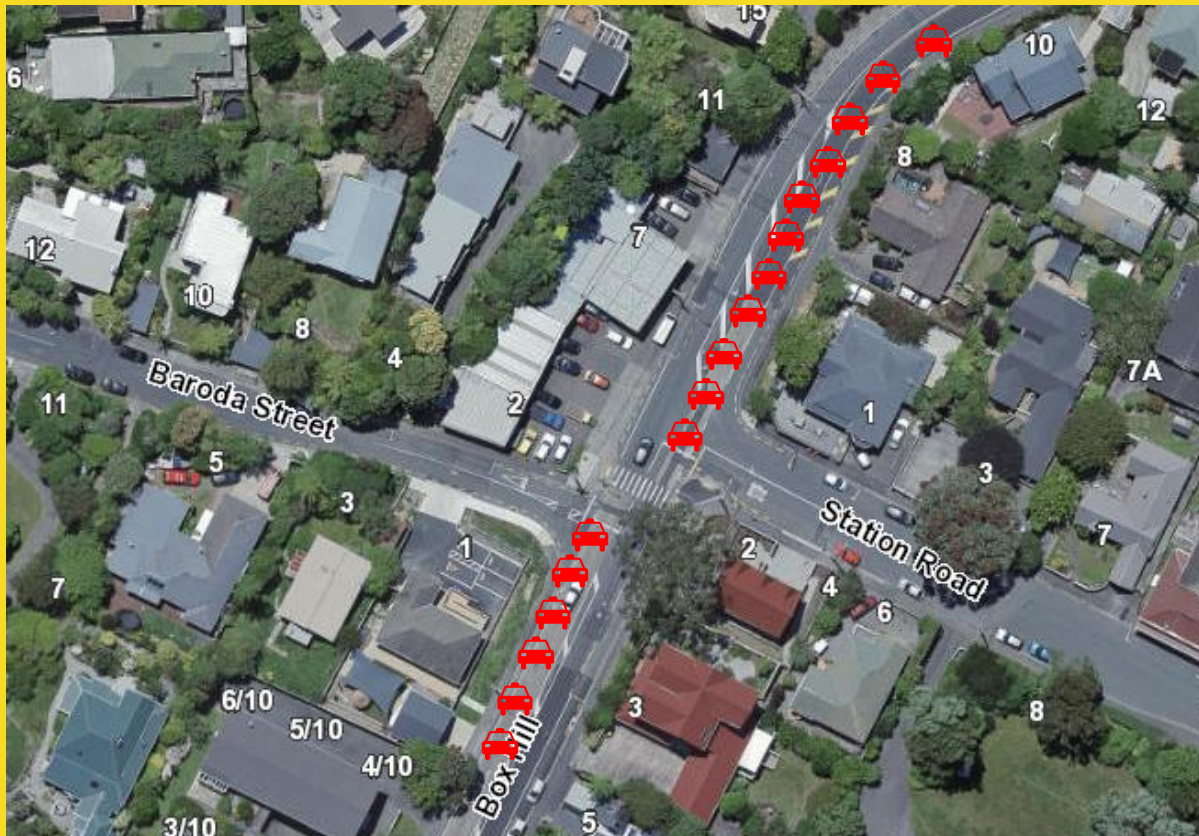
Source: Auckland Transport, 2022

High speed reduce safety and access for pedestrian and cyclist

Problem Analysis

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Problem 3 – Traffic Congestion
Max queue 11 vehicles AM Peak



Traffic congestion at the intersection is causing delays and results in frustration and unsafe manoeuvres – rush decision

Resources

Complex
Layout

Challenge



Various
Stakeholders

The Public and
Community

Interdependency

- Optimised project team
- Transport Planner
- Revisited Investment Logic Map
- Internal Engagement

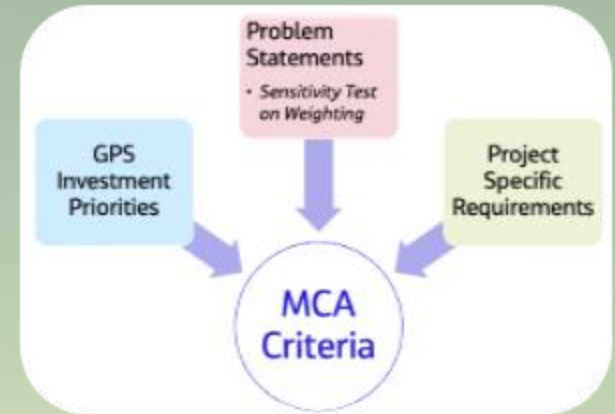
Target



- MetLink – Public Transport Provider
- NZTA
- KiwiRail

- Project team workshops
- Objectives Alignment
- Future proof consideration

The Public and Community



16 Options

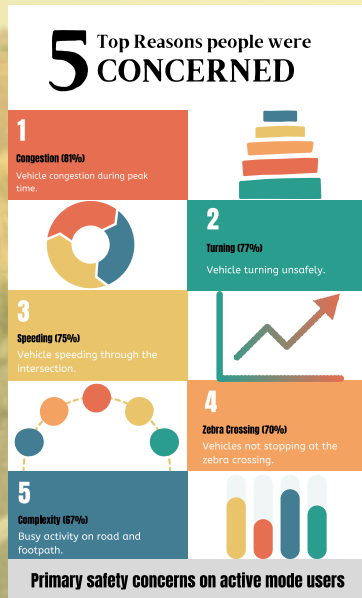
Signalised Intersection

Complaints, Opposition, Concerns,
Disappointment

The Public and
Community

Three Phase Approach

Problem
Endorsement



Pre-
engagement

- Business One-o-One
- Kindergartens
- Letter Drops
- Emails

ORCA Meeting
Response to all submitters

Informed Decision

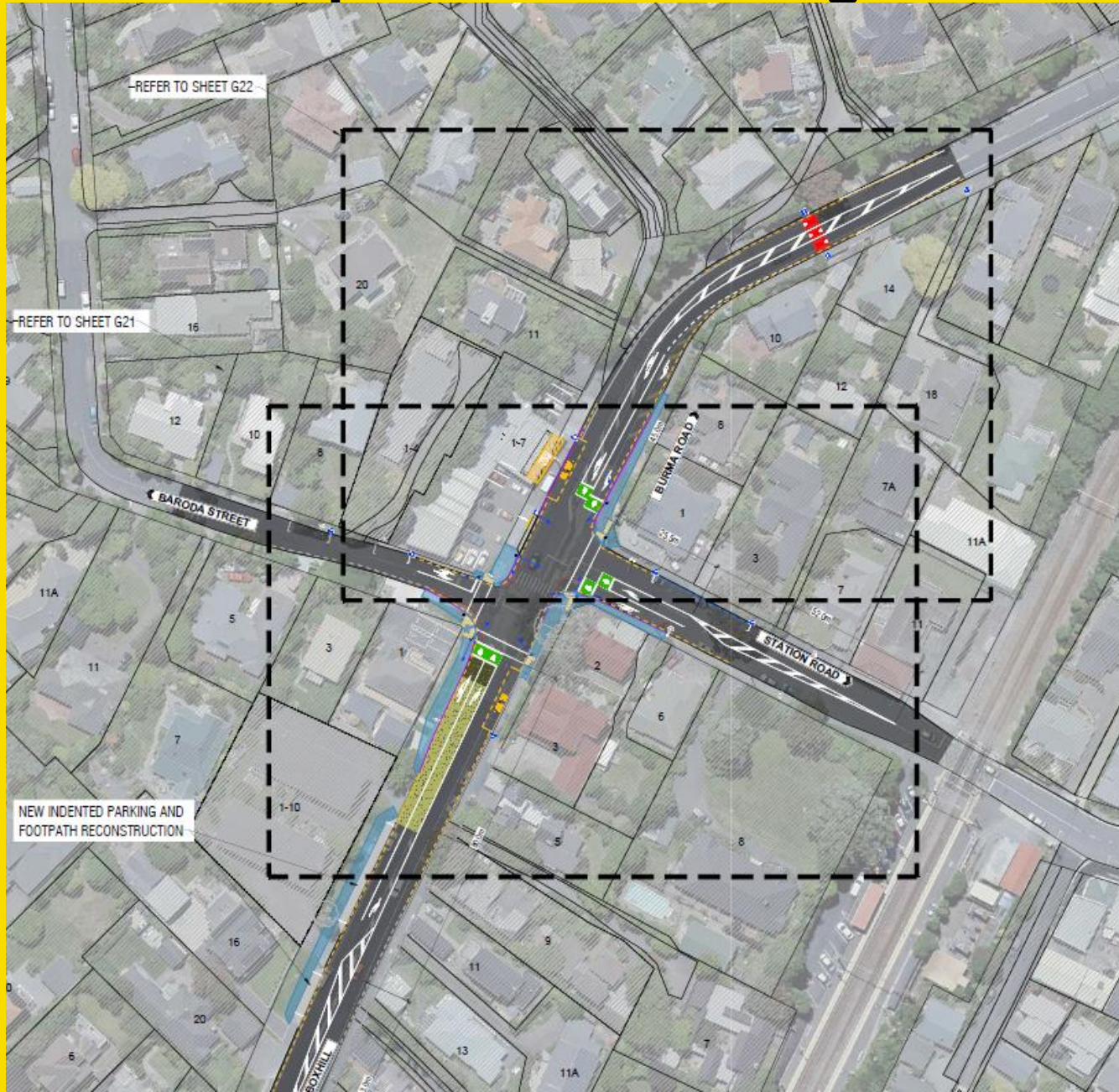
Public
Consultation

Traffic Resolution

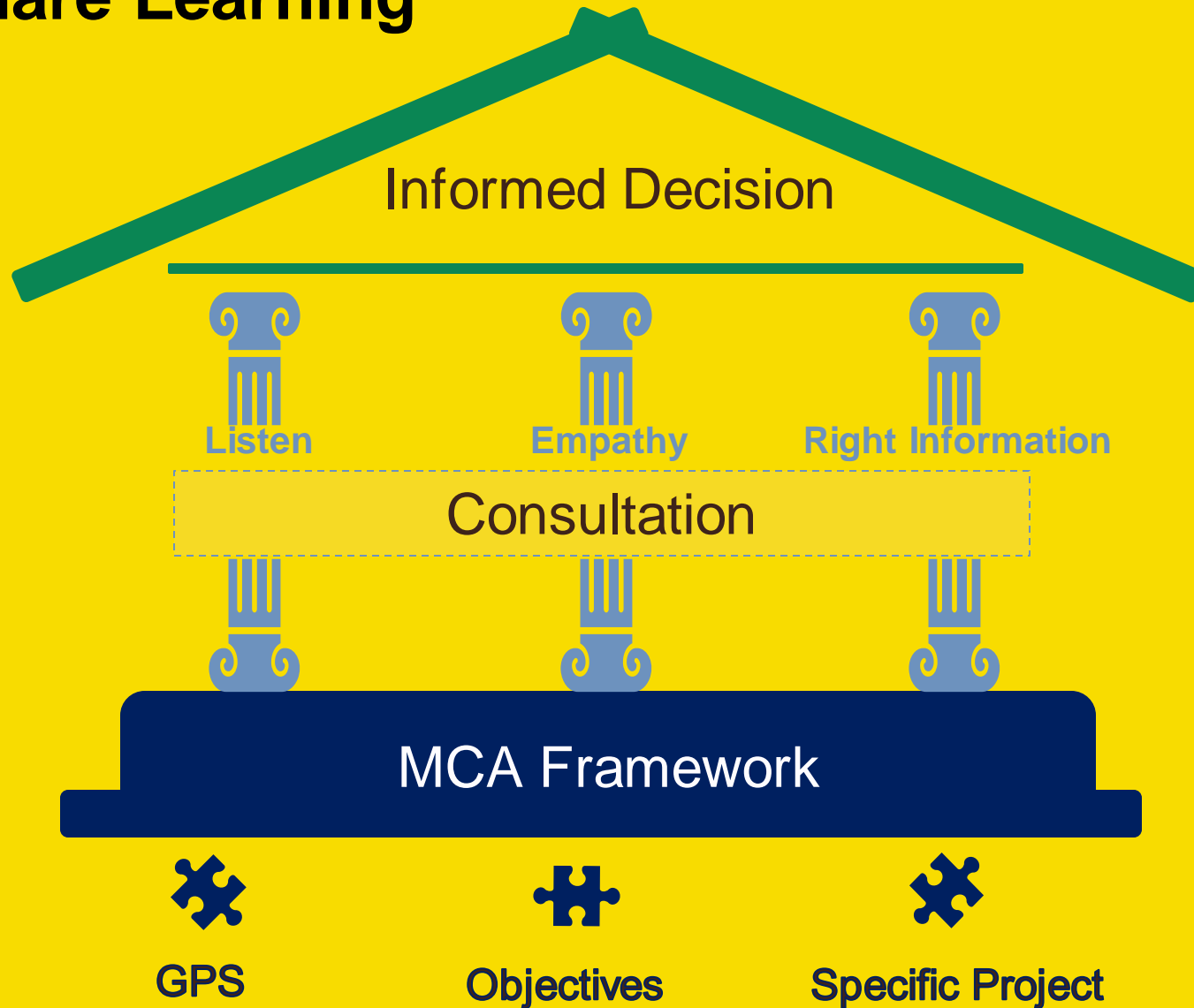
Approval 22 Feb 24

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Preferred Option – Traffic Lights



Share Learning



Questions & Discussion

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00:04