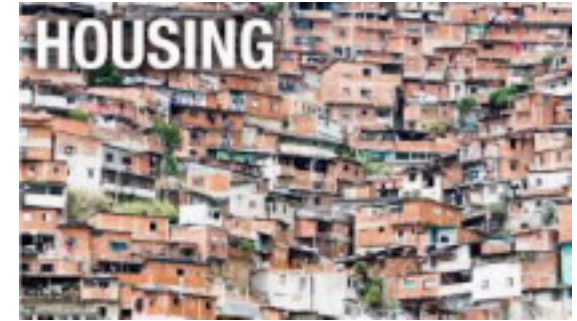


# Network Operating Plan and Efficiency Improvement

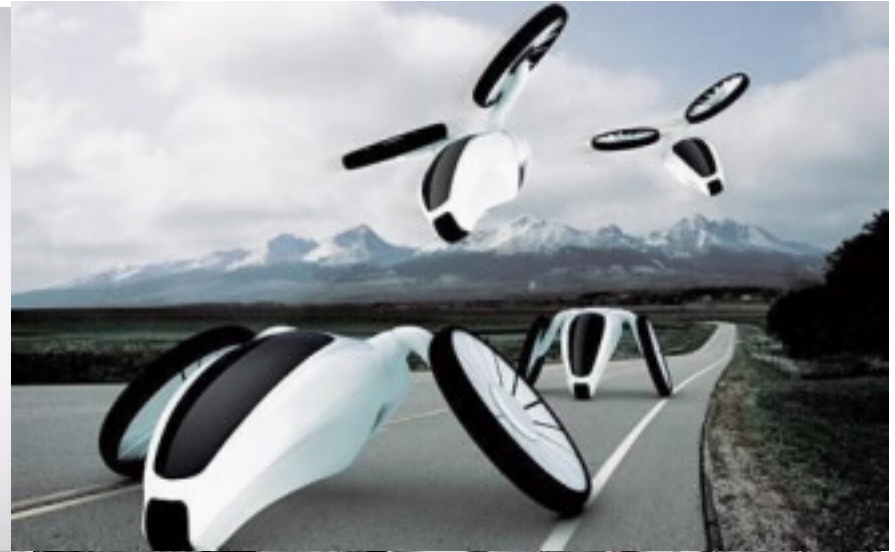


Ranjan Pant

# I want to live in the world's most liveable city

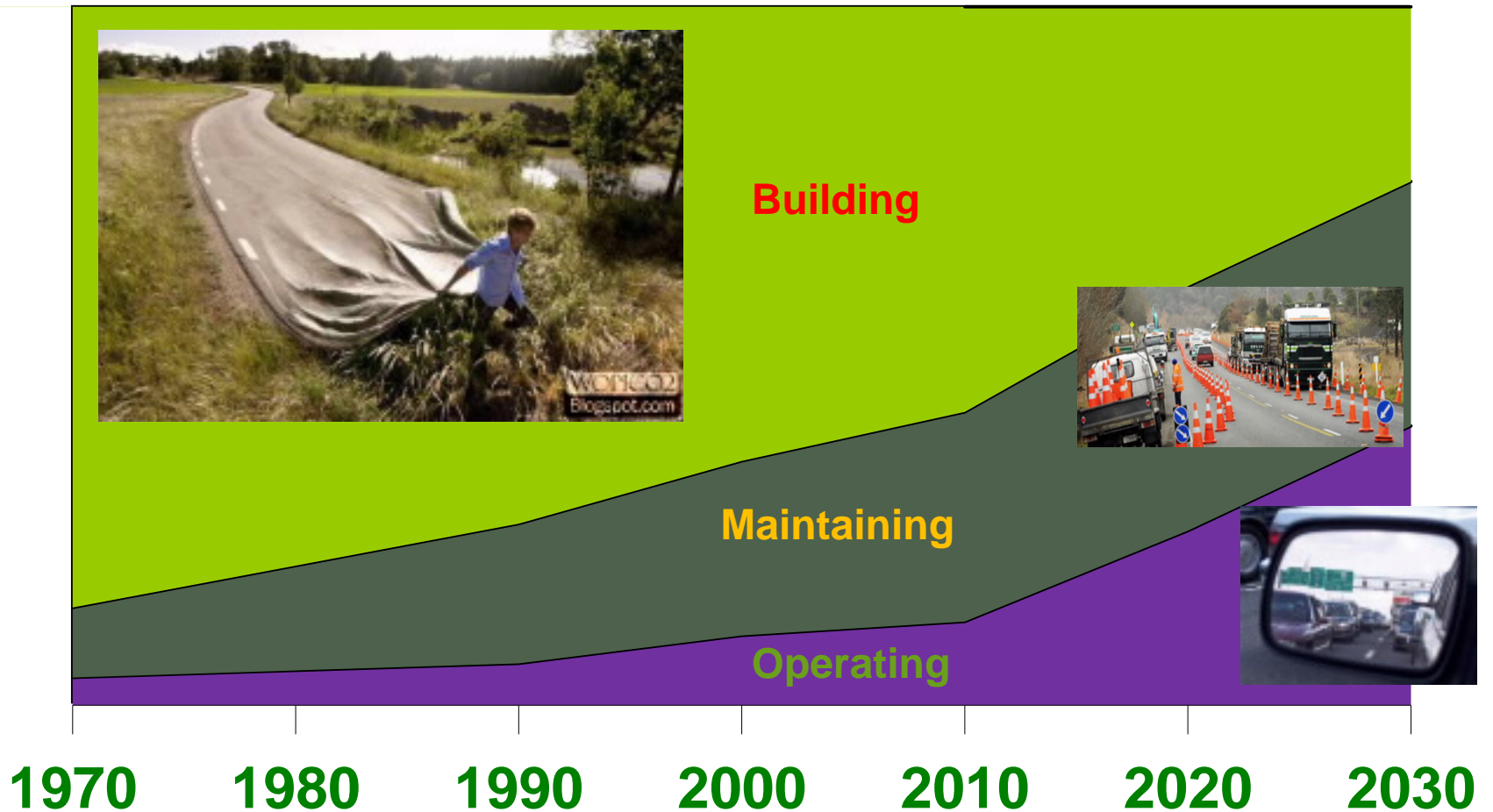


# Transport Past Present and Future



**A lesson from  
Horse Manure Crisis of 1894"**

# Transport Investment Trend



# Mobility



Journey  
Time

Reliability

Congestion

Delay

Costs

Travel  
Demand

Productivity

Throughput

Safety

Growth  
Rate

# Operational Planning Partnership

Common language

Process

TLA

NZTA

SH/P

Tool

TOC

# Aim



Making the most of urban network capacity

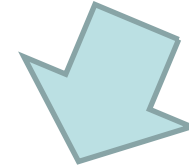
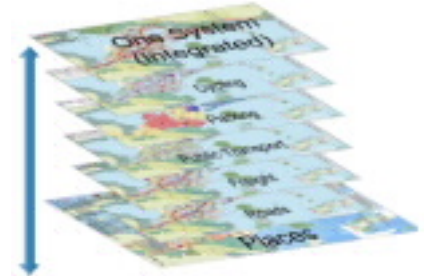
Move People and goods

**Agreed plan to operate network to achieve a set of agreed objective including efficiency**

**Strategy into Operation**



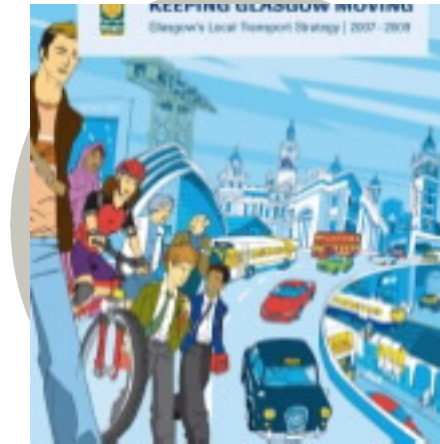
# Network Operating Plan Development



**System**

**Transport  
Vision**

**Strategy**



**Operating Plan**      **Outcome**



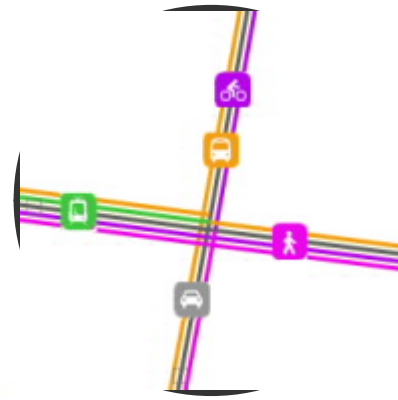


# Network Operating Plan Process

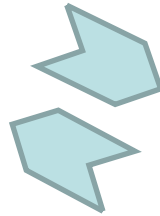
Strategy  
Setting



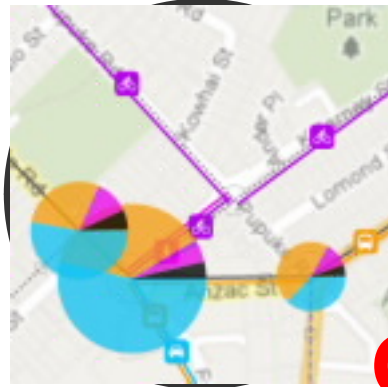
Road  
user  
Hierarc  
hy



Operati  
ng Plan



Network  
Fit  
Assess  
ment



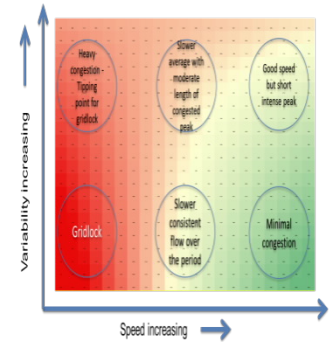
Operating  
Gap



# Performance and Intervention



**Operating Plan**



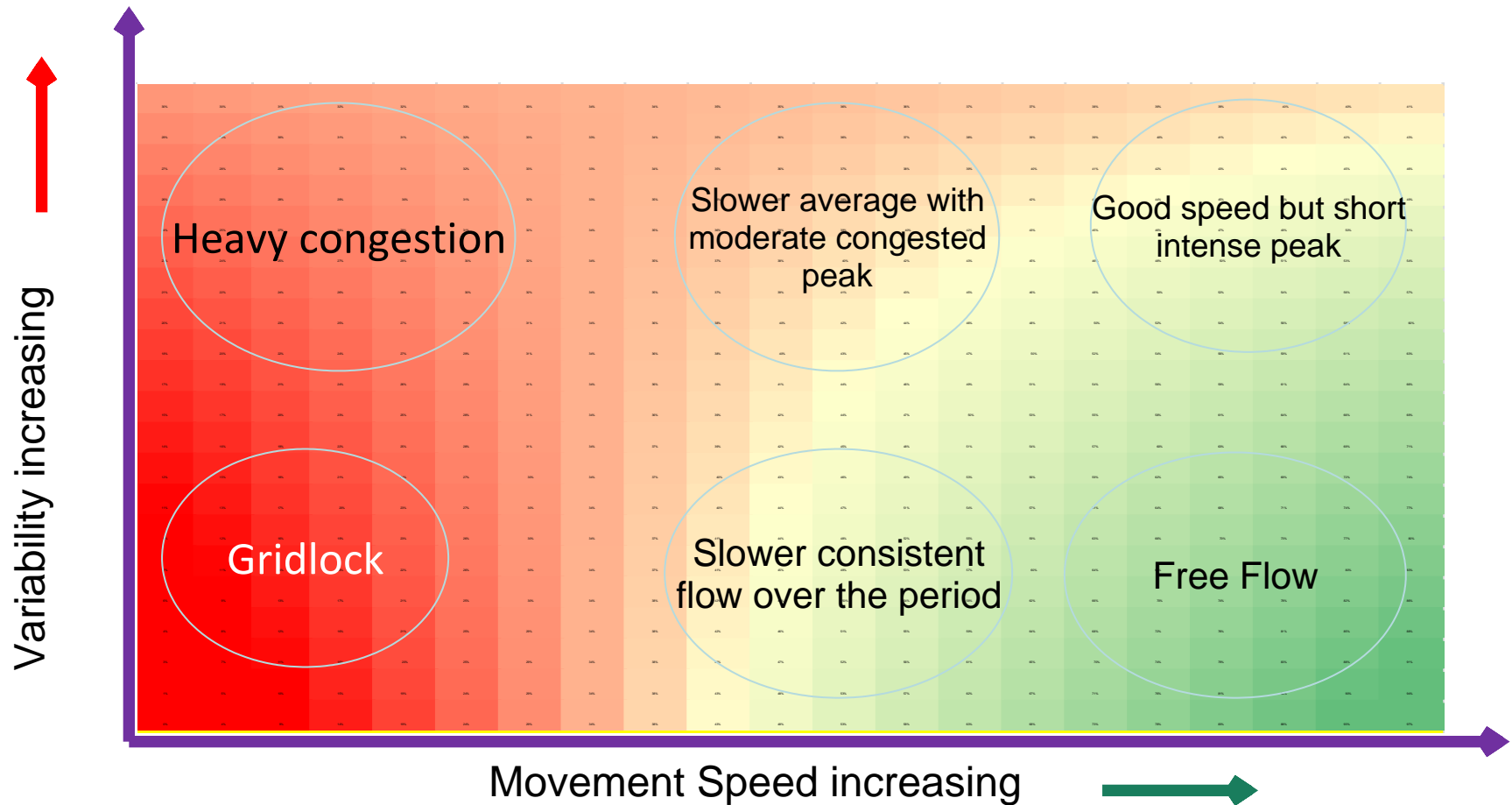
**Performance Analysis**



**Intervention**

**Framework**

# Performance Thoughts



# Intervention Plan Process

Strategy



Operational

Improve Planning



10 – 30 years

Shift Modes



5 – 10 years

Change Behaviour



2 - 5 years

Optimise Capacity



1 - 2 years

Operate Effectively



< 1 year

Land use plan / policy  
Formulate strategy  
Design network  
Build capacity

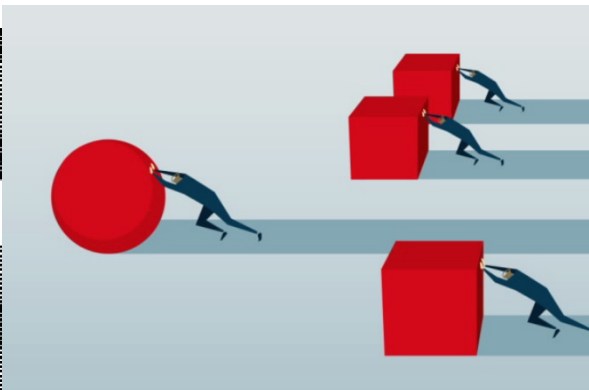
Improve PT reach  
Sift road freight to rail  
Walking and Cycling  
Reallocate road space

Modify travel demand  
Manage freight  
Implement policy measures  
Control destination choice

Aid travel planning  
Manage road space dynamically  
Active manage capacity  
Enhance capacity

Manage events  
Actively manage traffic  
Minor changes in system

# Evaluation of Interventions



Effectiveness

Impact



Constructability



Consent



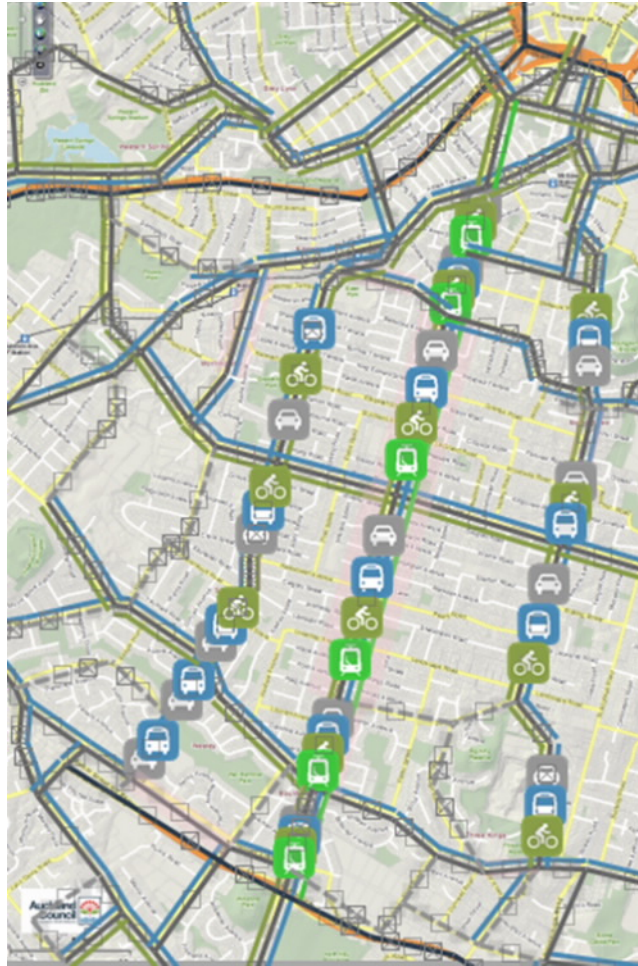
Acceptability



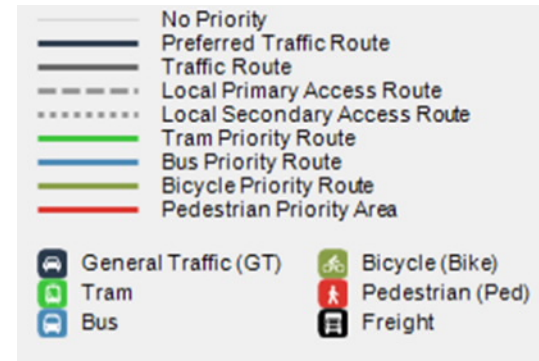
# Some Examples of Auckland



# Some Examples of Auckland

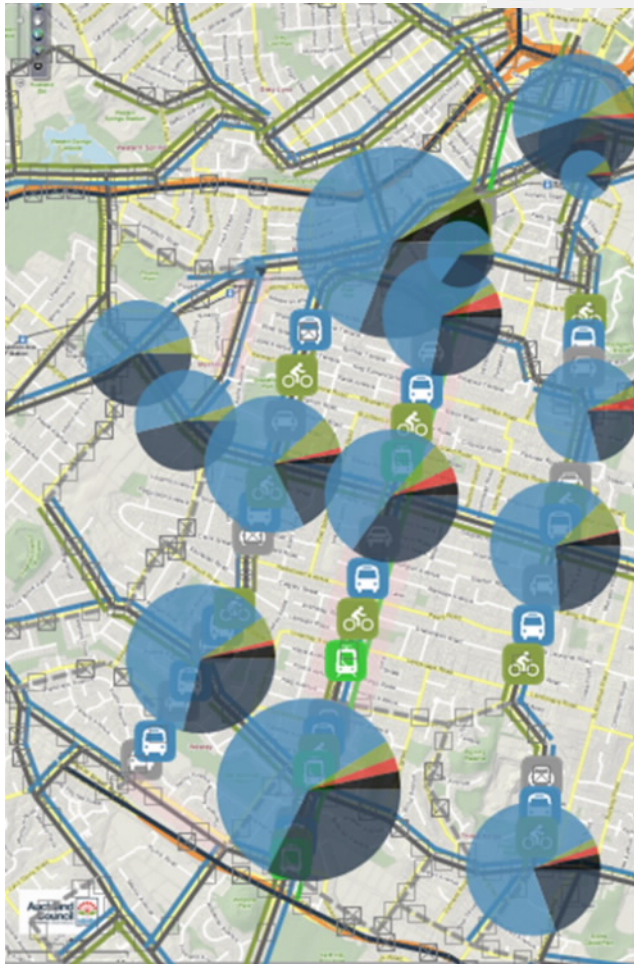
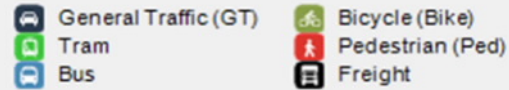


## PROPOSED DOMINION ROAD LIGHT RAIL TRANSIT

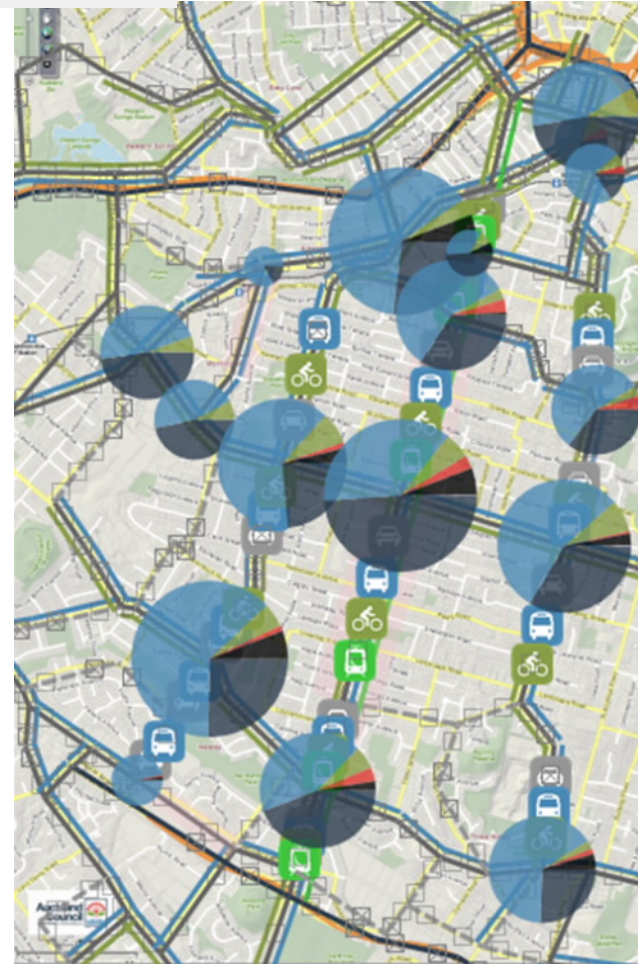


## 2026 Network Operating Plan (NOP) for the Isthmus

# Some Examples of Auckland









2026 AM Peak Operating Gaps

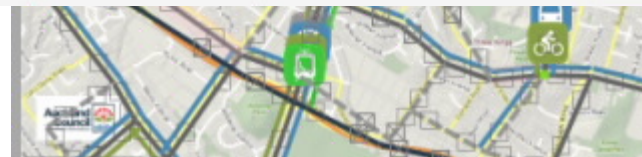
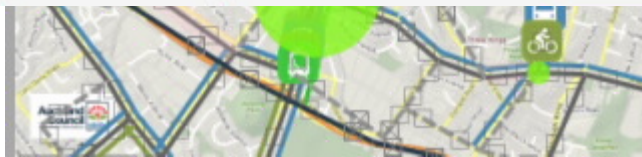
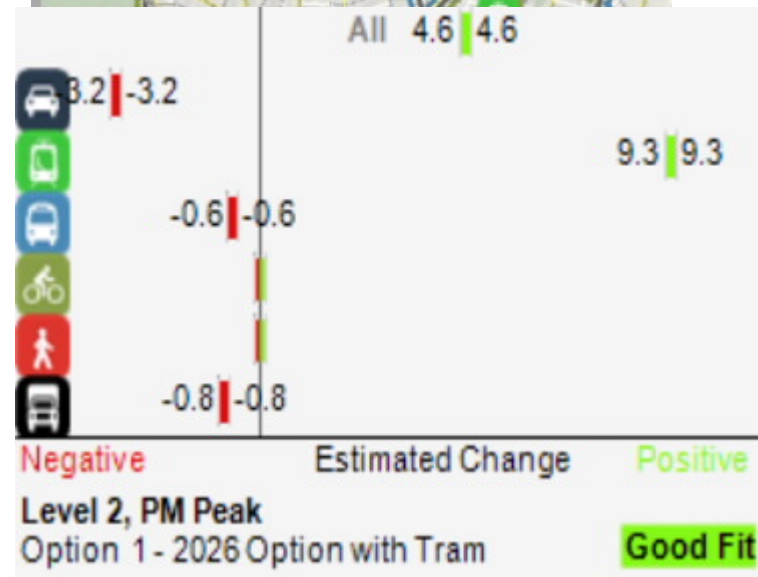
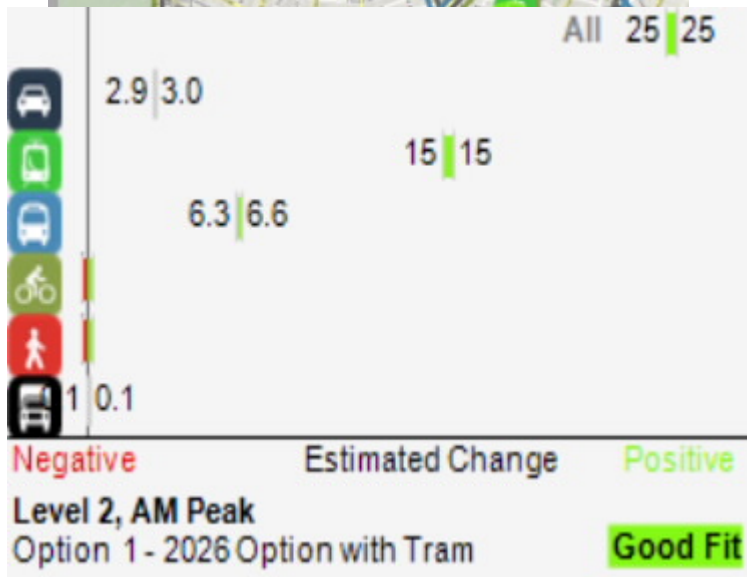
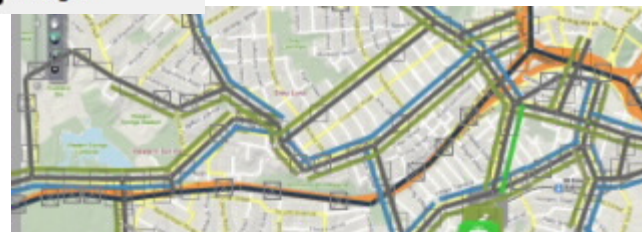
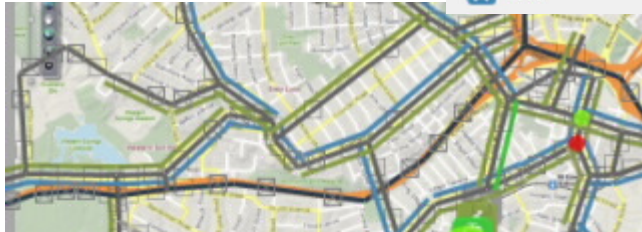


2026 PM Peak Operating Gaps



# Some Examples of Auckland

-  General Traffic (GT)
-  Tram
-  Bus
-  Bicycle (Bike)
-  Pedestrian (Ped)
-  Freight



2026 AM Peak LRT Impact

2026 PM Peak LRT Impact

# Summary...

