

Transport Operations

We oversee

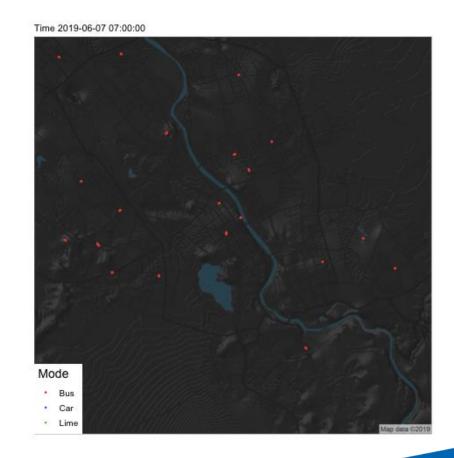
- Intelligent Transport Systems (ITS)
- Real-time Operations
- Transport Data

Why? To support **strategic decision making**, enhance **operations**, and **better inform** customers

We want to become **data driven** as an organisation - **analytics** is the key

To tell the full story requires data for **every**







Outcomes

Understanding how people move around the city enables better decision making. Data is now 'needed' for decisions.

Planning - where to build facilities, and when to close roads

Inform decisions – from forward work programmes to contractors

Enhance operations - real time management



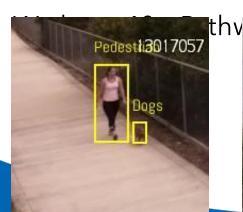
New data source: Pathway Counters (micro-mobility)

Problem: It's expensive to roll out city-wide counters that are solar-powered and can count all required modes

Solution: We partnered with two local tech companies (hardware & AI) to build our own unit. They're solar powered, cheap, & easy to install.

They count people/cyclists/scooters/skateboarders/mobility scooters/etc...

Co-developed, sold by Aware Group (already used in 4 cities)









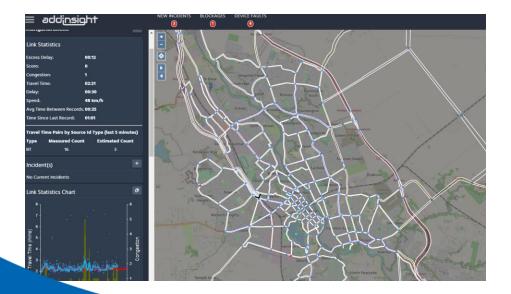




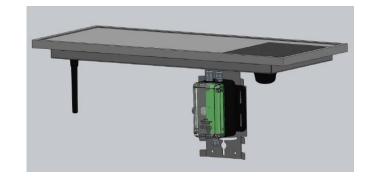
New data source: Addinsight (bluetooth)

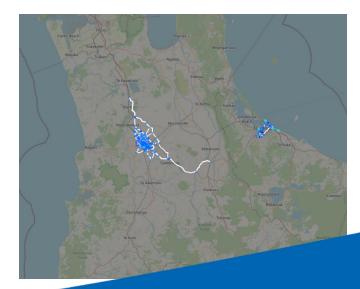
Valuable traffic movement data

- Samples approx. **25%** of traffic
- Comprehensive insights within a few clicks, including: travel times, origin-destination, volume trends
- Four NZ cities using it, plus Waka Kotahi have started around the Waikato











New data source: Camera Analytics

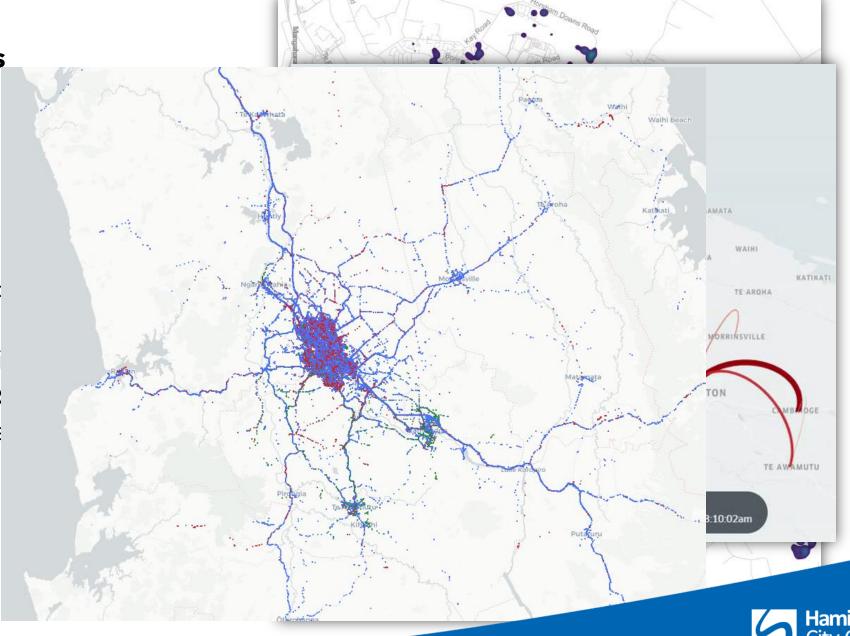


Wider travel insights

Freight movement

Regional travel

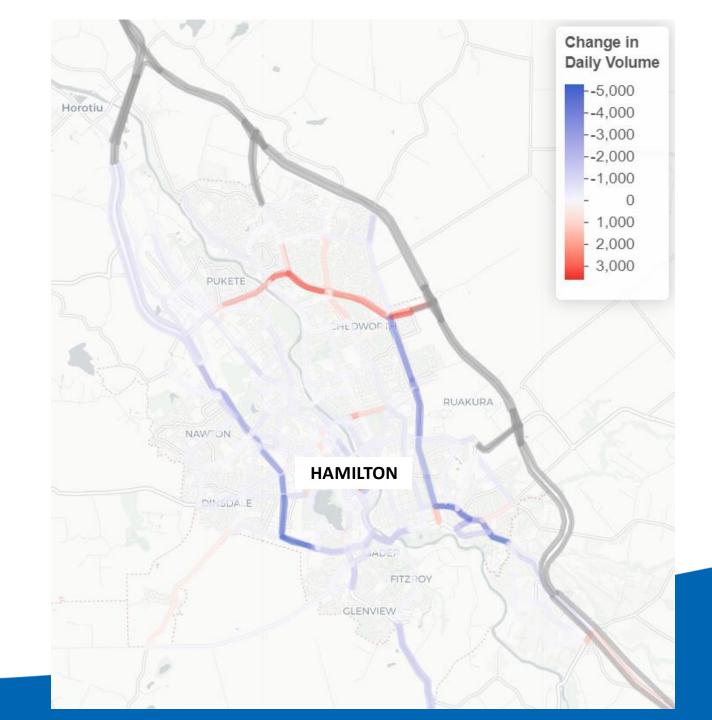
- 400,000 vehicle tripe every day
- 50% of peak traffic i from outside the city
- (13% each Waikato a Auckland)





Hamilton Bypass Opening

- Volumes have dropped 25% on Wairere Drive East. Increase on the northern section
- Travel time from Rototuna to Hillcrest is down 20% to 10 mins with greater reliability
- Report in collaboration with Waka Kotahi will detail the overall effects on the road network

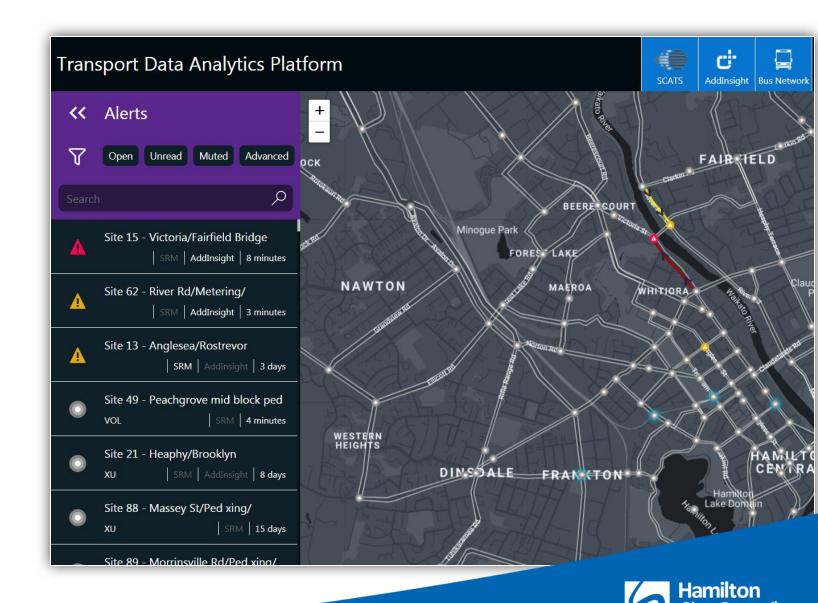


Alert system for incidents on the road network

It didn't exist, so we made it!

- Combines 8 live data sources:
- Looks across the data sources for issues at the same location
- Removes the need to monitoring multiple windows
- Automatic text alerts
- Remote monitor via mobile phone

Project example: TDAP



Project example: Mode share model

We're developing a **current-year** model that uses Machine Learning to estimate the **volumes** on every road in the city.

This includes **Pedestrians**, **Cyclists**, **Scooters**, **Motorbikes**, people on **Buses**, and **general traffic.**

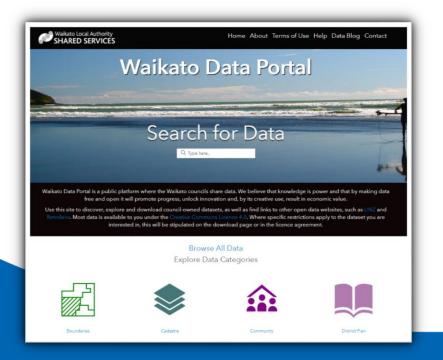
To have an accurate model we need count and



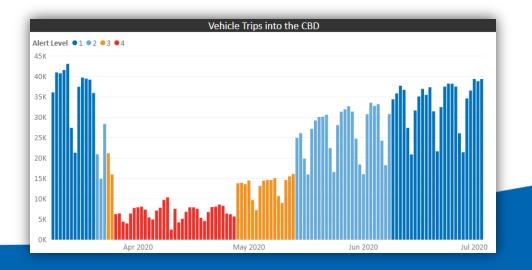


Making data more accessible

- Self-serve dashboards: both internal and public (predominantly PowerBI with GIS maps in the works)
- Open data portal









Report Card

Quarterly report card on behalf of OneNetwork partners. Multi-modal shared data, sent to anyone interested.

The larger annual publication includes wider stats (e.g. freight, regional trends).





Thank you

FURTHER INFORMATION

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