



Hamilton Region Update

SNUG – August 2022

News in the 'Tron

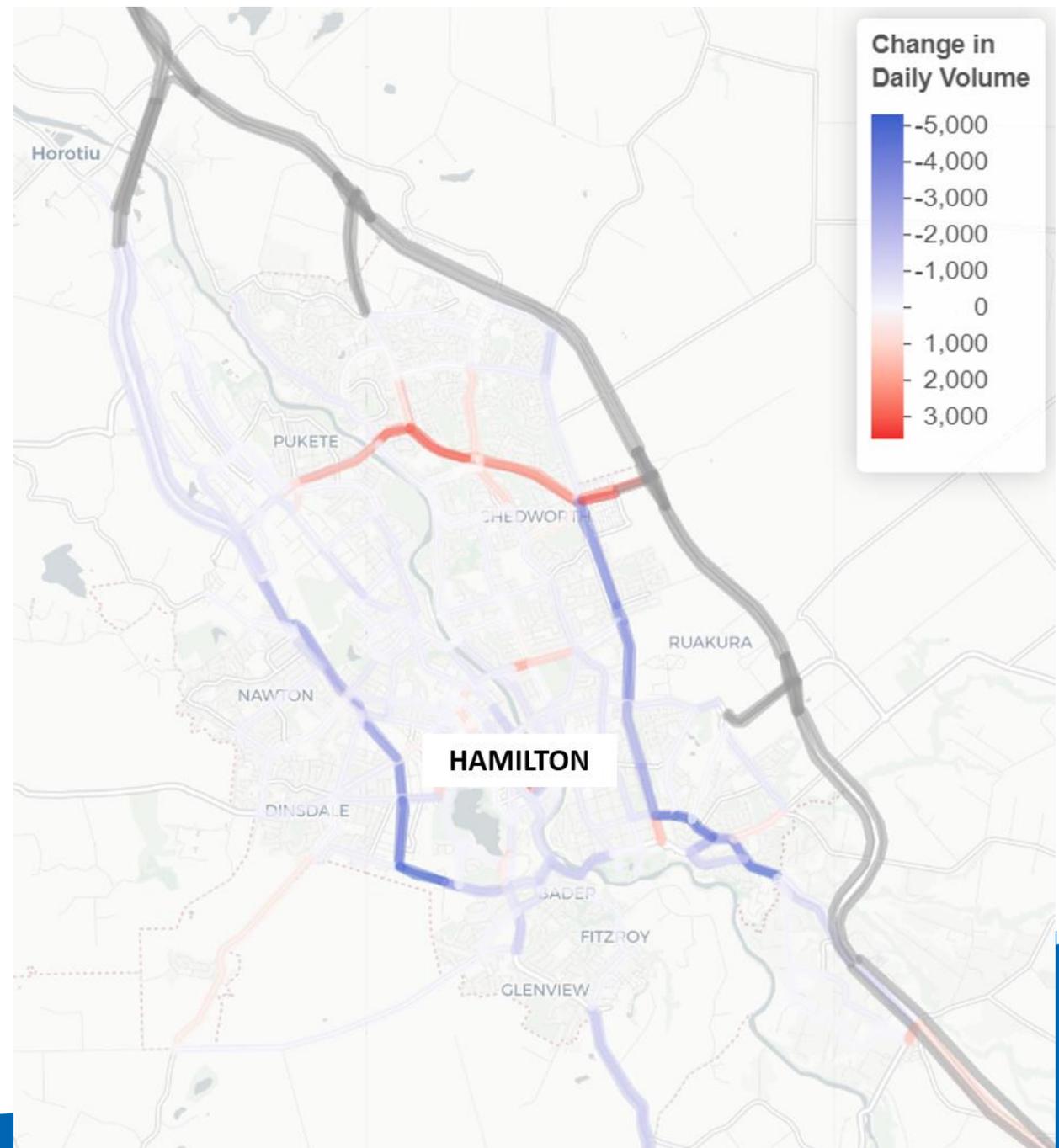
- **CIS and Software in-house**
 - 2 years now doing CIS and SFT – happy to support others
- **ELV/VC6 increases**
 - 44 VC6 sites (over a third of all sites) and 13 ELV sites.
- **New signals contract**
 - Will form part of new 2023 CCA contract (10yr term). ROI out this week
- **Dynamic ped clearance**
 - Doing more – shorter & longer clearance (8-26s instead of 21)
 - Good tests in personality to check units are operating properly
 - Will start to retrofit sites under disability action plan
- **Cornerstone**
 - The end of green and black graphics??
- **Radar detection**
 - Radar trial complete: They generally replicate loops acceptably, but good placement and calibration is critical
 - New sites without traffic makes it harder to calibrate before switch on
 - First site on 100% radar detectors



Hamilton bypass

Waikato Expressway Hamilton Section complete

- Opened in August
- Ghost town or just more traffic?
- Report out soon (joint with Waka Kotahi)
 - good Addinsight coverage



Micro-mobility counter

“Pathway” Counter

- We’ve been rolling out counters across the city to measure bikes/peds and the effects of projects
- They’re solar powered, cheap, & easy to install. They count peds/cyclists/scooters/skateboarders/mobility scooters/etc...
- Co-developed, sold by Aware Group (already used in 4 cities)
- We have 40+ units so far, aiming for about 60

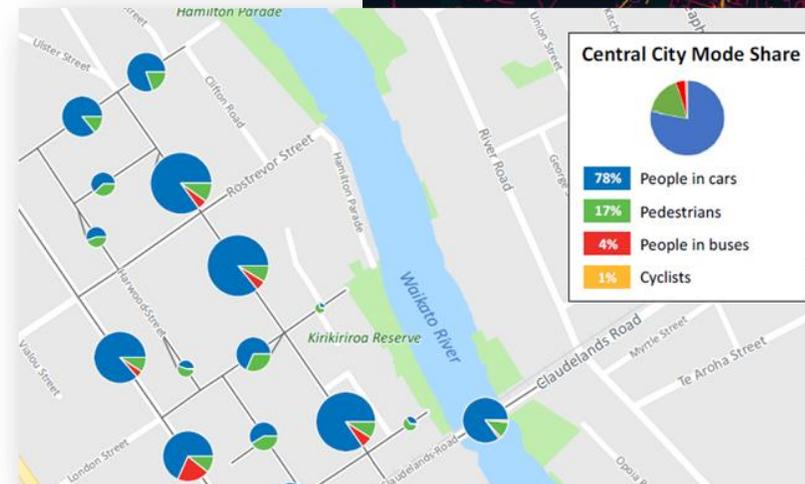


Mode share model

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

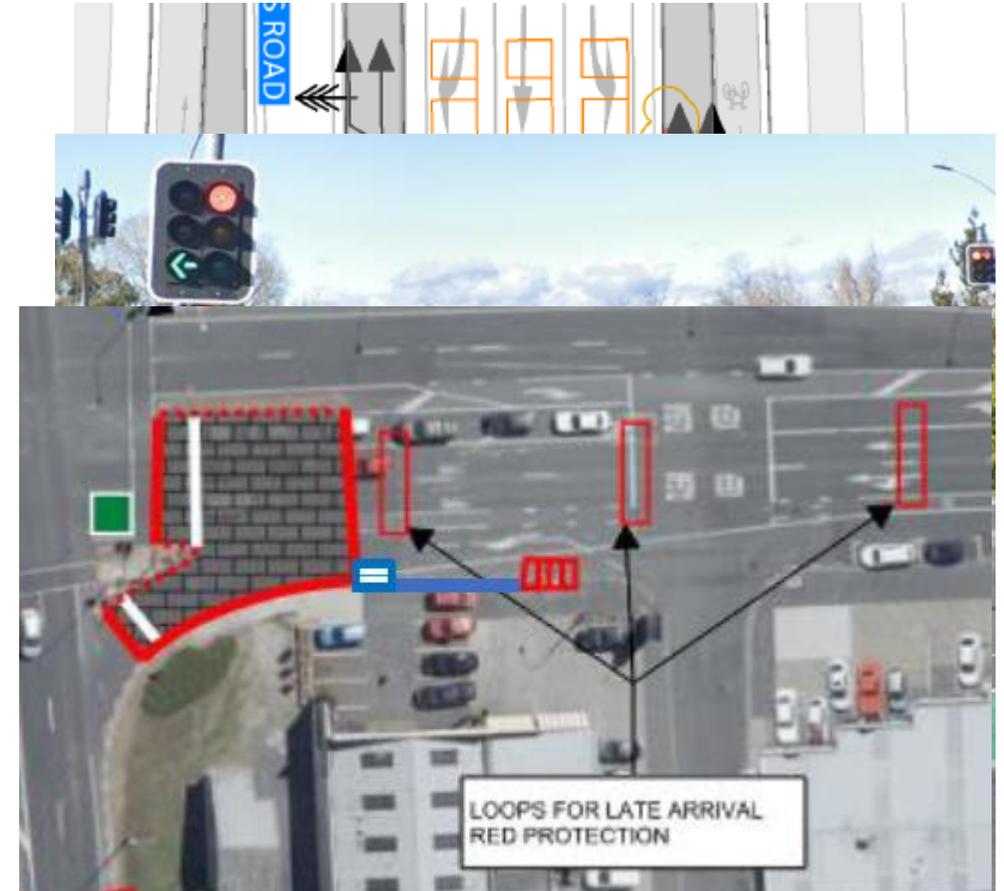
- Pedestrians, Cyclists, Scooters, Motorbikes, people on Buses, and general traffic.
- To have an accurate model we need count and pathing data for every mode – something we've only recently achieved.

Mode							
Count	  	  			  		
Pathing		 	 				



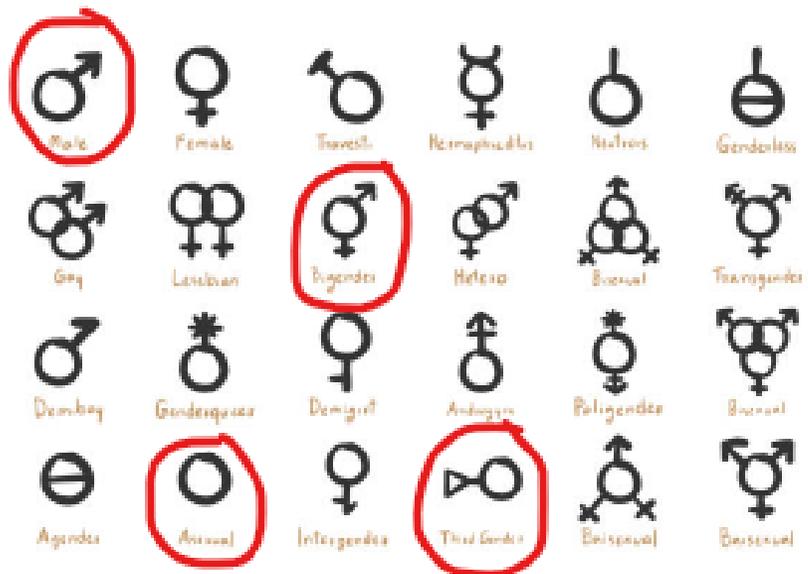
Discussion points

- **Maintenance: Median poles vs Mast arms?**
 - Median: No hiab, cheaper BUT more often hit, more TTM in median
 - Mast arm: hit less BUT more expensive, hiab/bucket truck
 - Conclusion: depends on road ?
- **Left turn green arrow in shared lane**
 - Incidents of people going ahead
 - When to have left turn green arrow – rule of thumb 30% LT?
 - Run green arrow inside the right turn (e.g. in diamond phase)?
- **Red light advanced detectors**
 - To measure speed and identify likely Red Light Runner coming
 - Extend SRED if detected
 - Has anyone done this?





Random stuff



Signal lantern genders



Thank you

FURTHER INFORMATION

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