

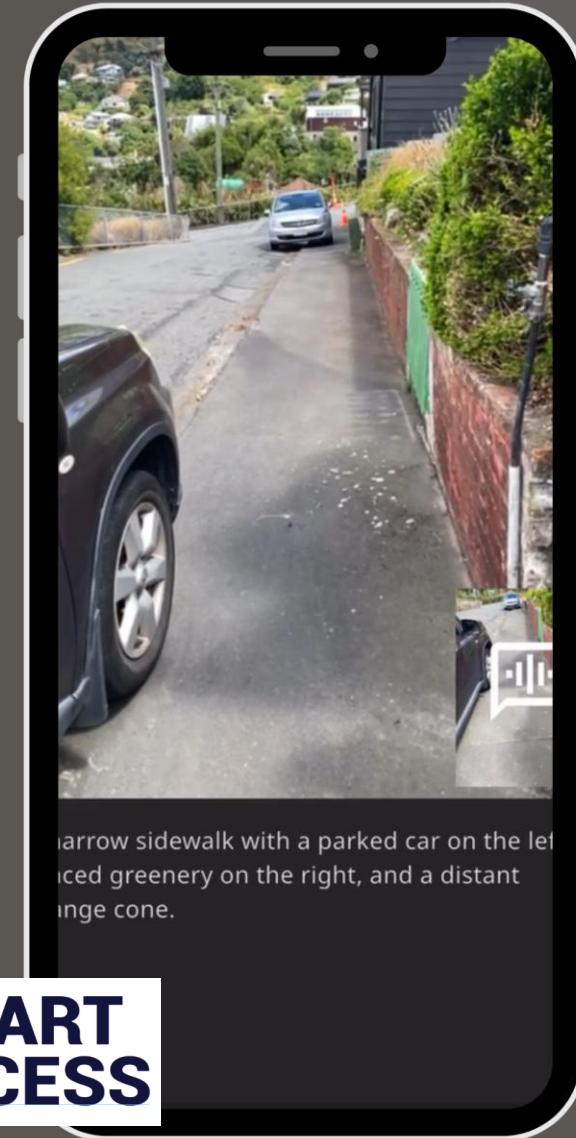
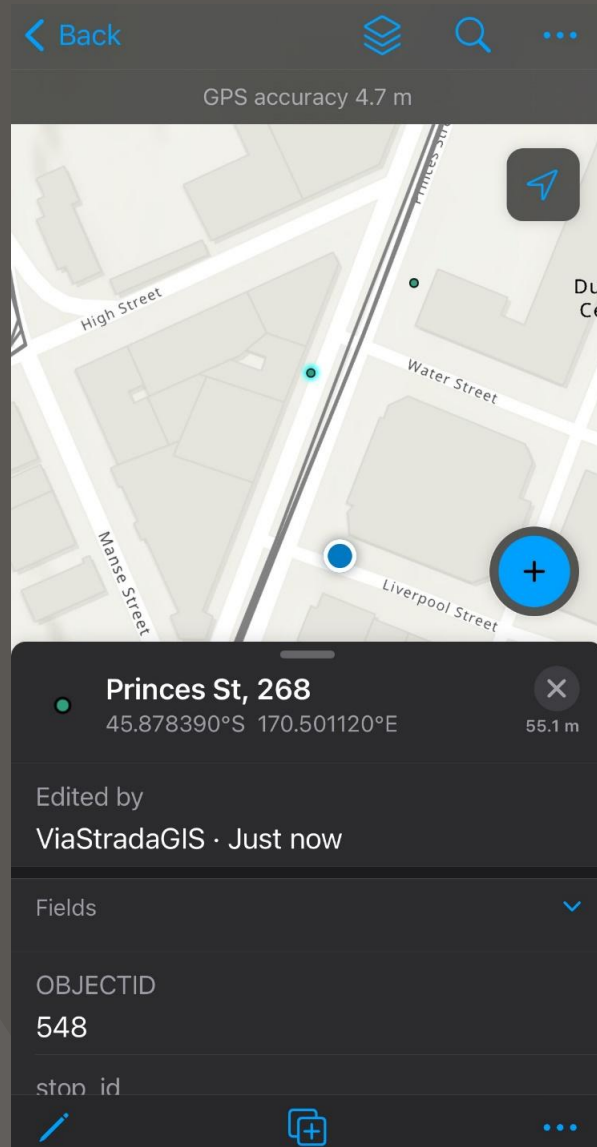


Smarter signals and data for active modes in NZ

Smart Cities webinar

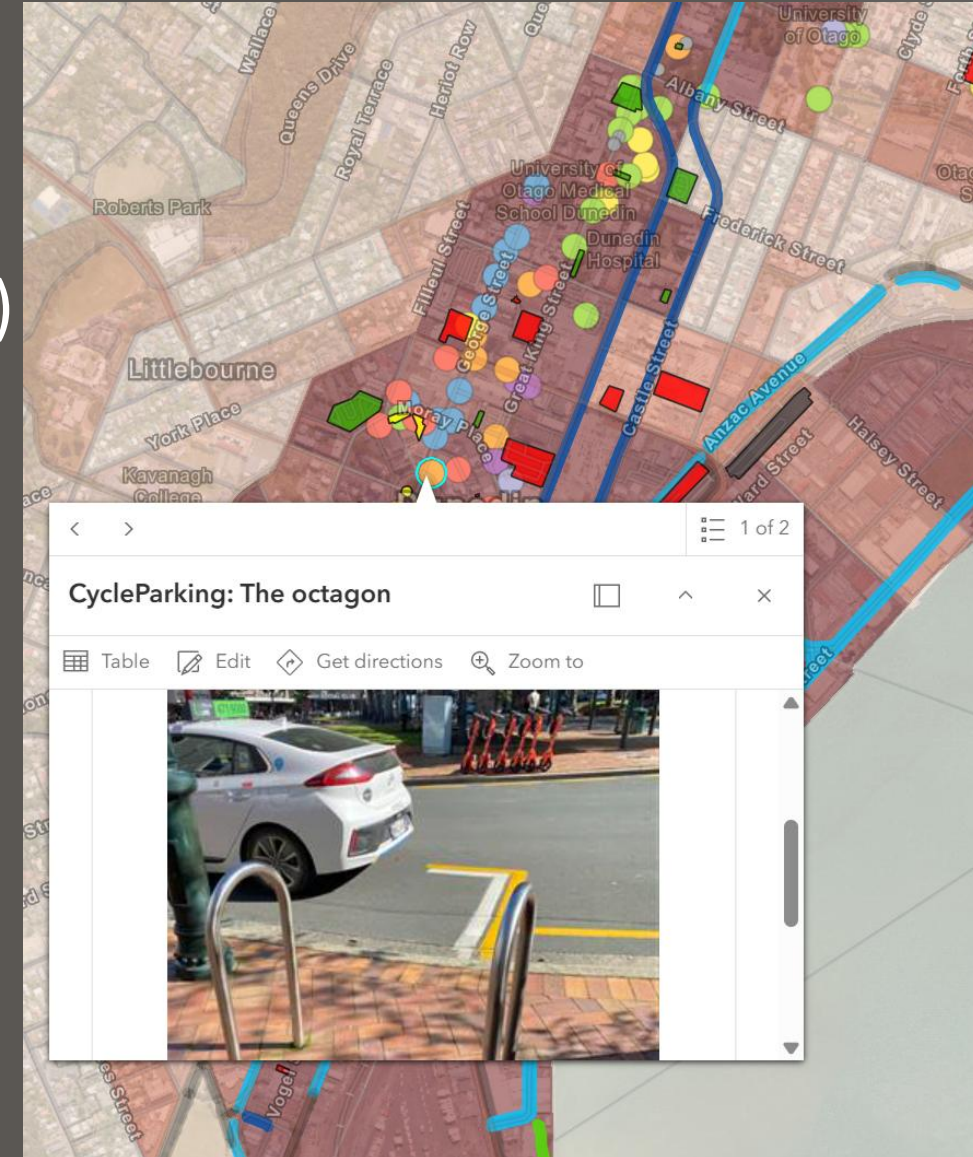
Megan Gregory | September 2025

Smarter planning – field data collection



Smarter planning – GIS applications

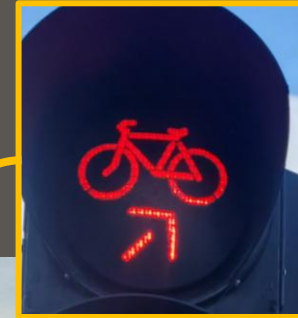
- Field data collection
- Collate data from multiple sources
- Geographic optimisation (catchment areas)
- Network planning & prioritisation
- Trend analysis



Smarter TCDs (Traffic Control Devices)

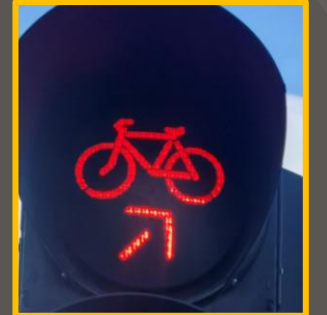
Smarter TCDs – achievements

- Directional signals for cyclists
 - more flexibility in operation
 - similar standard of provision to motorists



Smarter TCDs – achievements

- Directional signals for cyclists
 - more flexibility in operation
 - similar standard of provision as for motorists
- Two-aspect signals for cyclists
 - for shared crossings
 - possibly integrated with pedestrian signals



Smarter TCDs – wish list

Smarter TCDs – wish list

- Flashing yellow arrows
 - especially for filter turning past cyclists



Dutton Park, QLD

Smarter TCDs – wish list

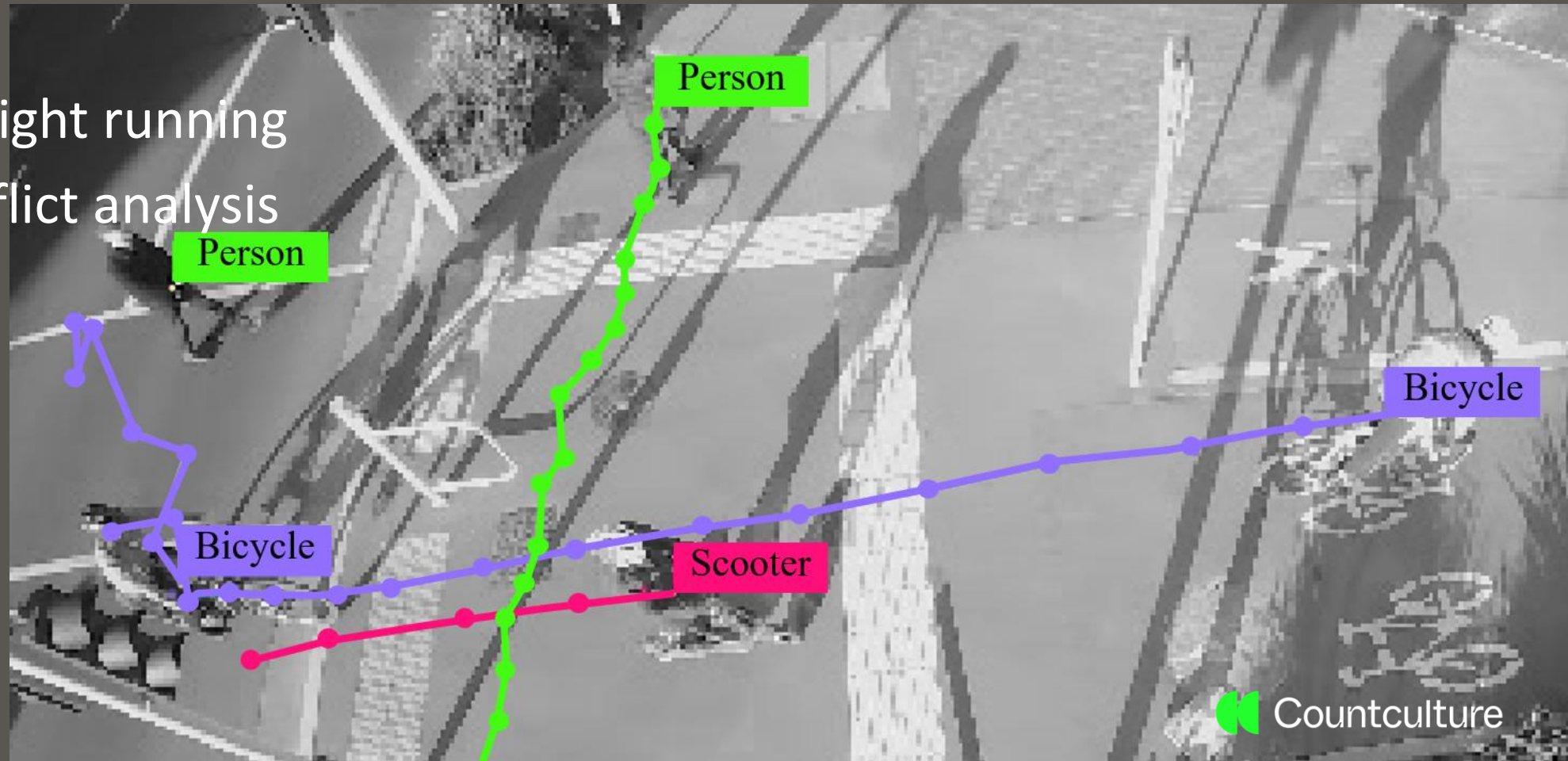
- Flashing yellow arrows
 - especially for filter turning past cyclists
- Small near-side signals for cyclists



Behaviour data technology

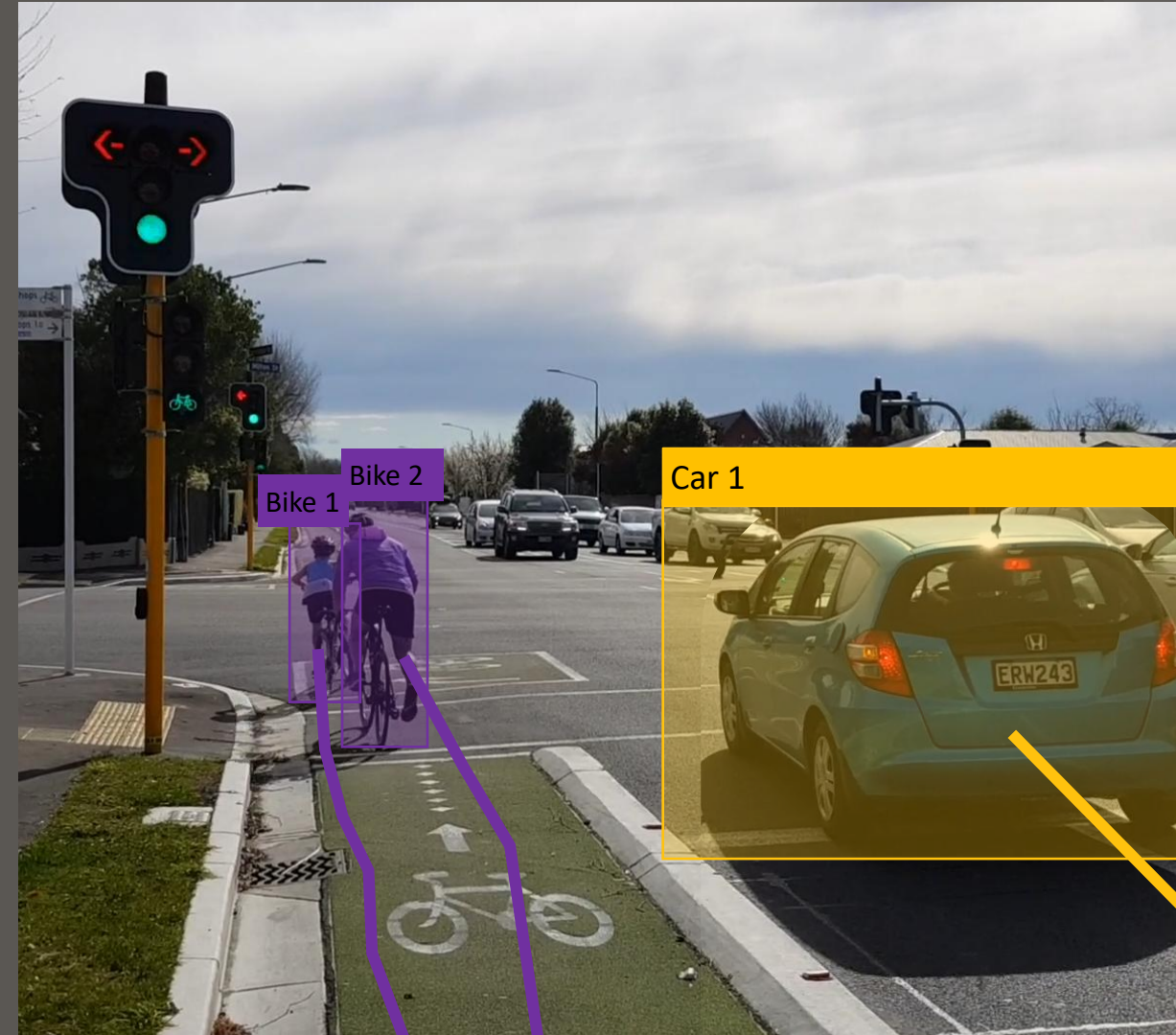
Behaviour data tech – current practice

- Distinguish and count different types of users
 - Mode
 - Trajectory
- Basic red light running
- Some conflict analysis



Behaviour data tech – wish list

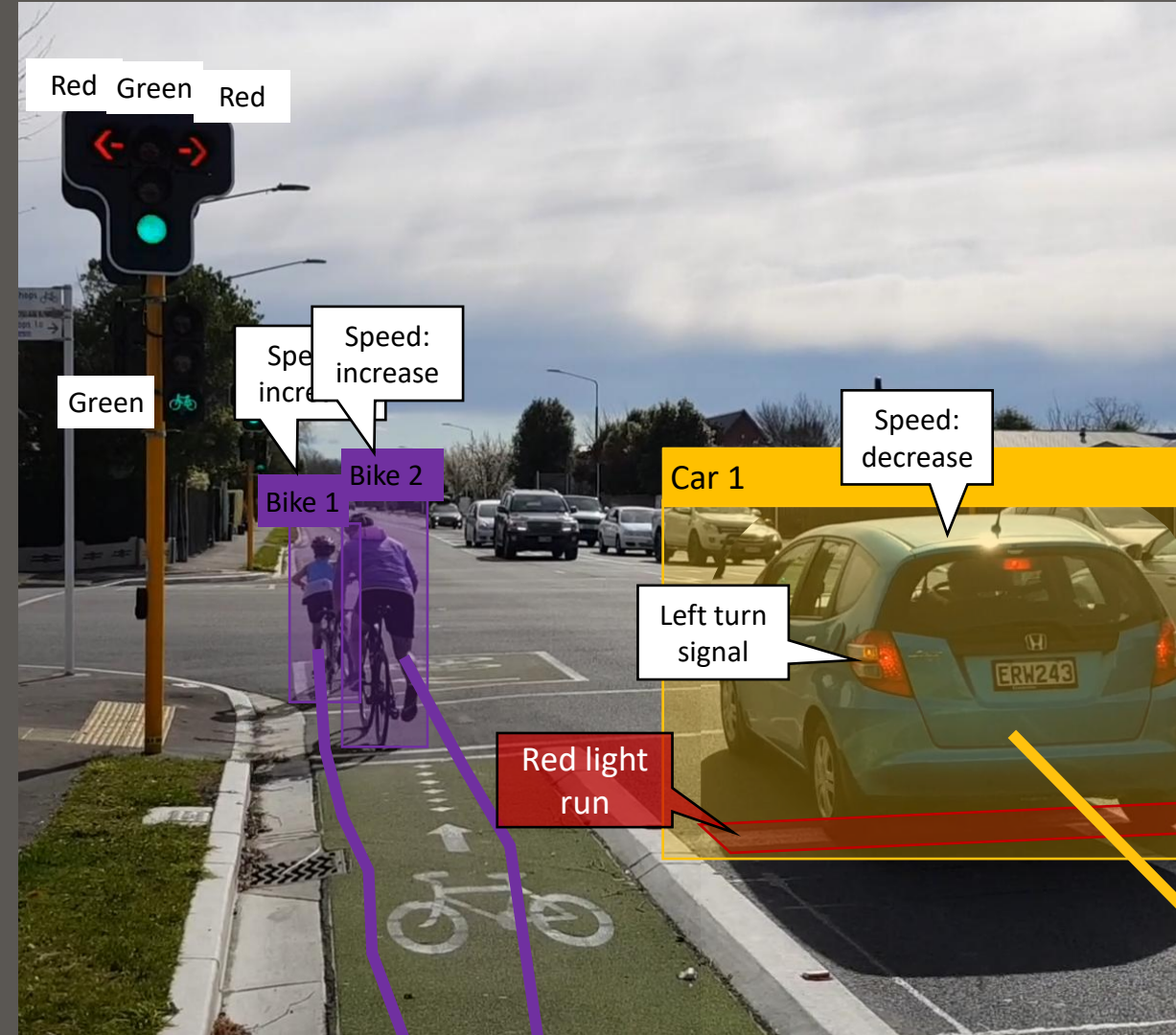
Analyse user behaviour in response to different environments / new devices



Behaviour data tech – wish list

Analyse user behaviour in response to different environments / new devices

- Types of infringement
 - E.g. for red light running: head start / false-start / late entry
- Interactions between users
 - warning factors
 - e.g. car vs cycle, cycle vs pedestrian
 - extent to which anyone changes speed / trajectory
- Level of risk when conflicts / infringements occur





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TRANSPORT PLANNING AND DESIGN