

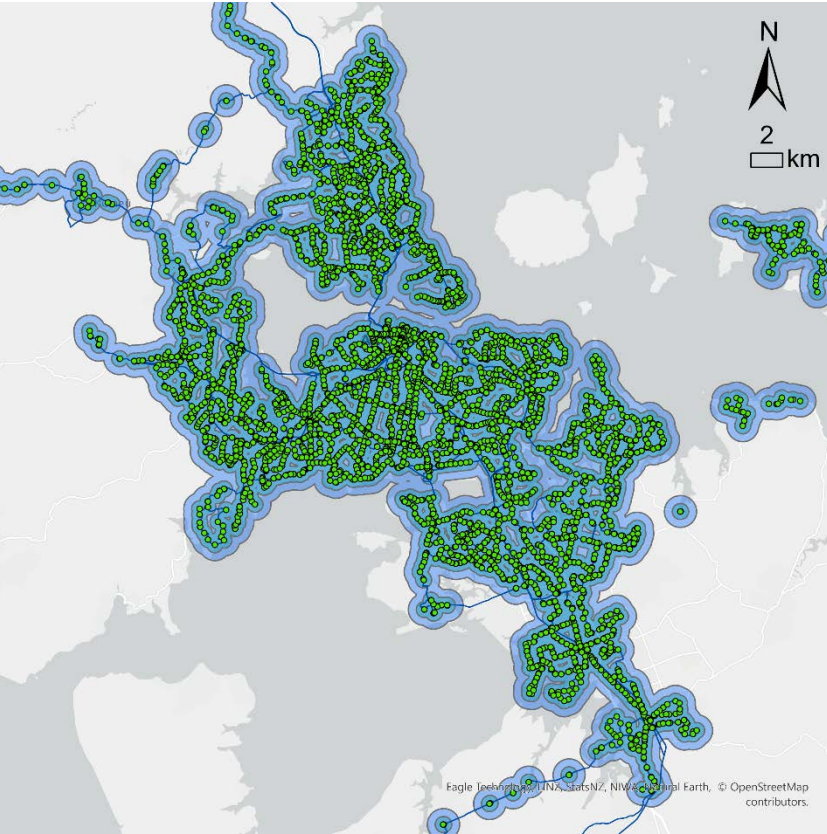
On-demand Pooling in Christchurch: Benefit or Bane?

Cameron Davis*, Mehdi Keyvan-Ekbatani

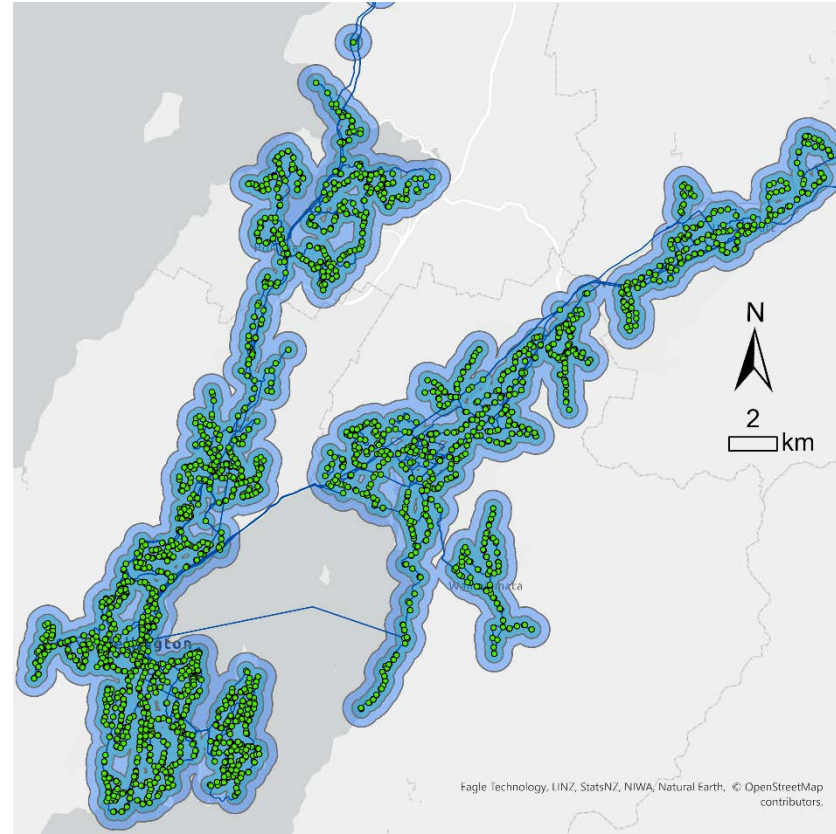
CTSLAB, University of Canterbury, New Zealand

Research Problem

Auckland



Wellington



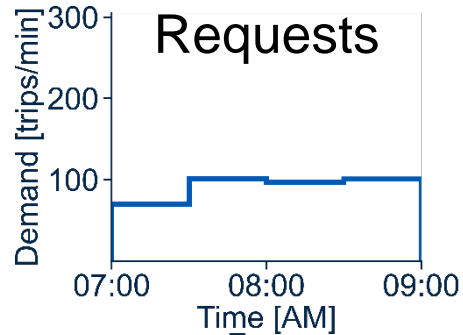
Christchurch



- 0.5 km from stop
- 1 km from stop

Transit routes
Transit stops

Modelling Framework

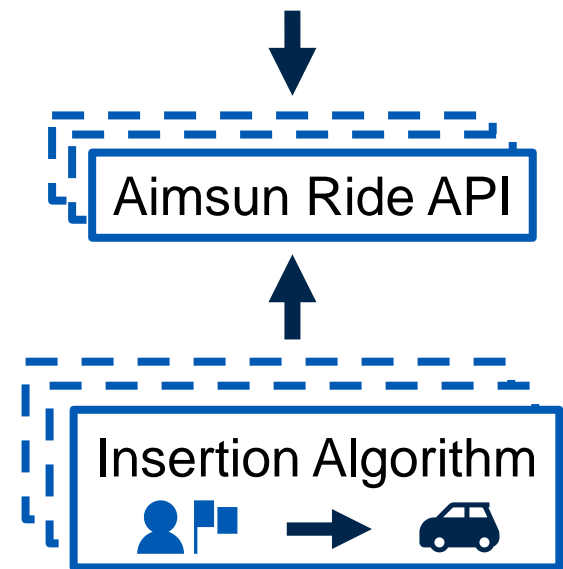
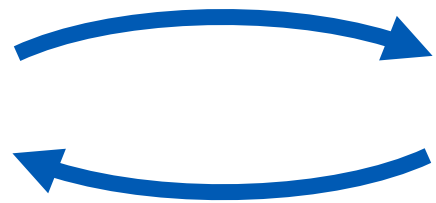


Request Parameters

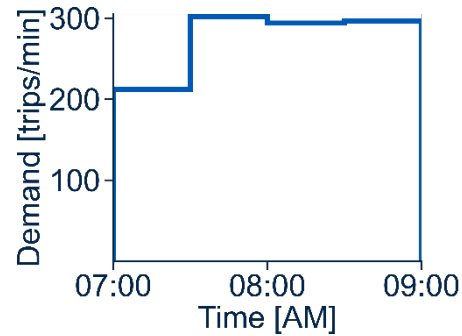
- Single passenger
- Maximum wait time: 10 minutes
- Maximum trip: 1.5 x direct trip time

Service Design

- Maximum Fleet size: 2,500 to 12,500
- Vehicle passenger capacity: 3
- Vehicles are free-floating in the network

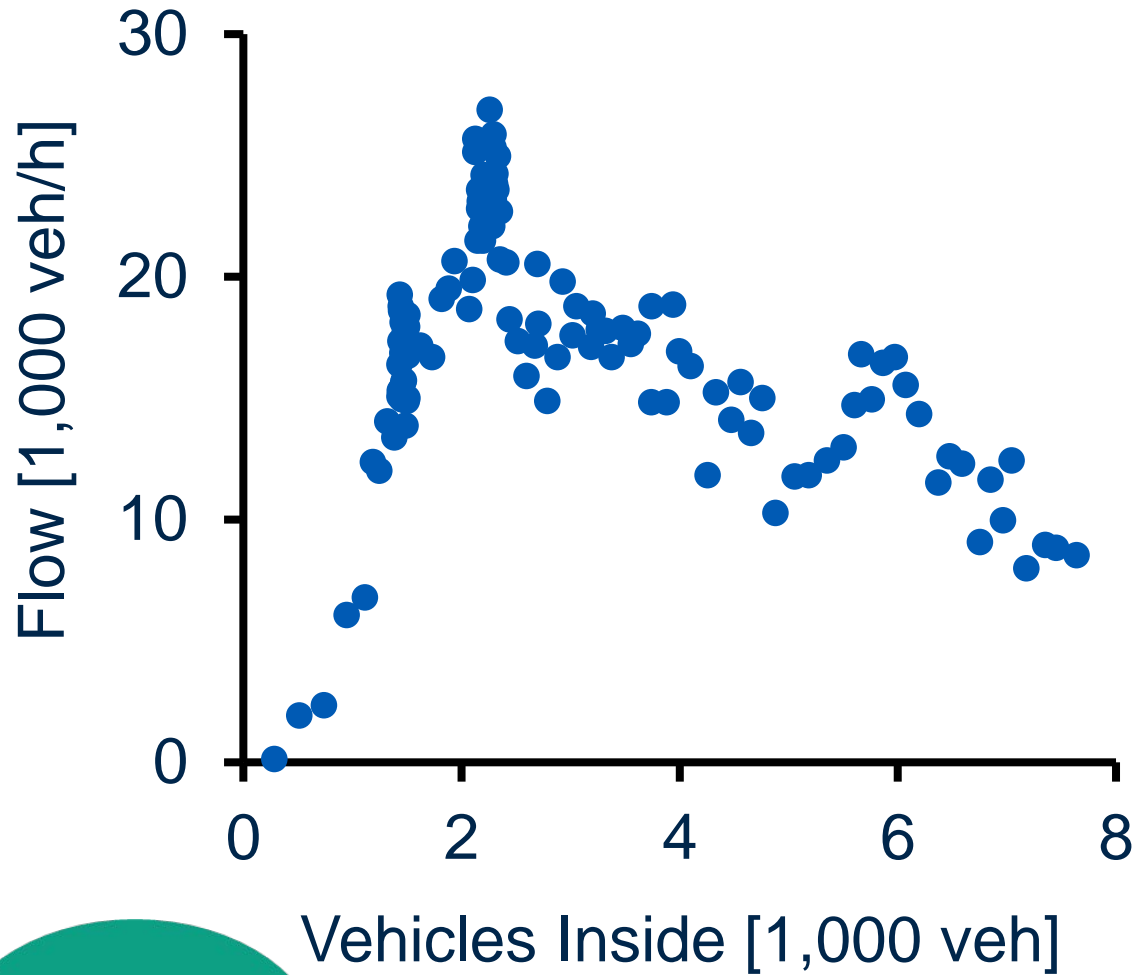


Private Vehicles



Results

Without On-demand Service



With On-demand Service

