



# ANALYSIS OF BUS STOPS IN CHRISTCHURCH, NEW ZEALAND

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New Zealand is a country built on wheels, but what if a person doesn't have a car and has to use public transport?







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## ISSUES WITH BUS STOPS

- Too far away from the public in some areas
- None in some areas

# DATA AND METHODOLOGY

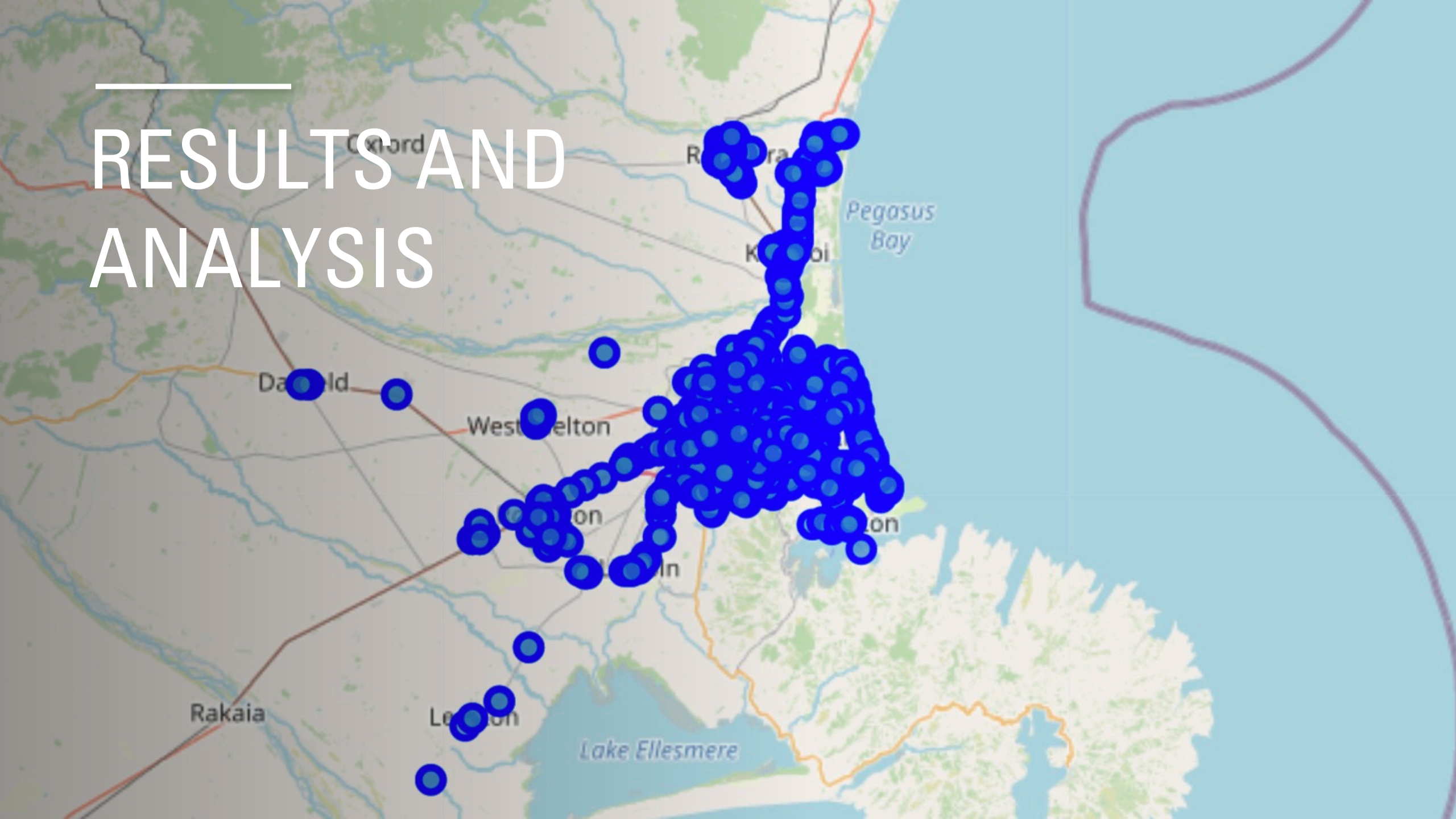
- Canterbury open data on bus stops
- Visualisation and clustering





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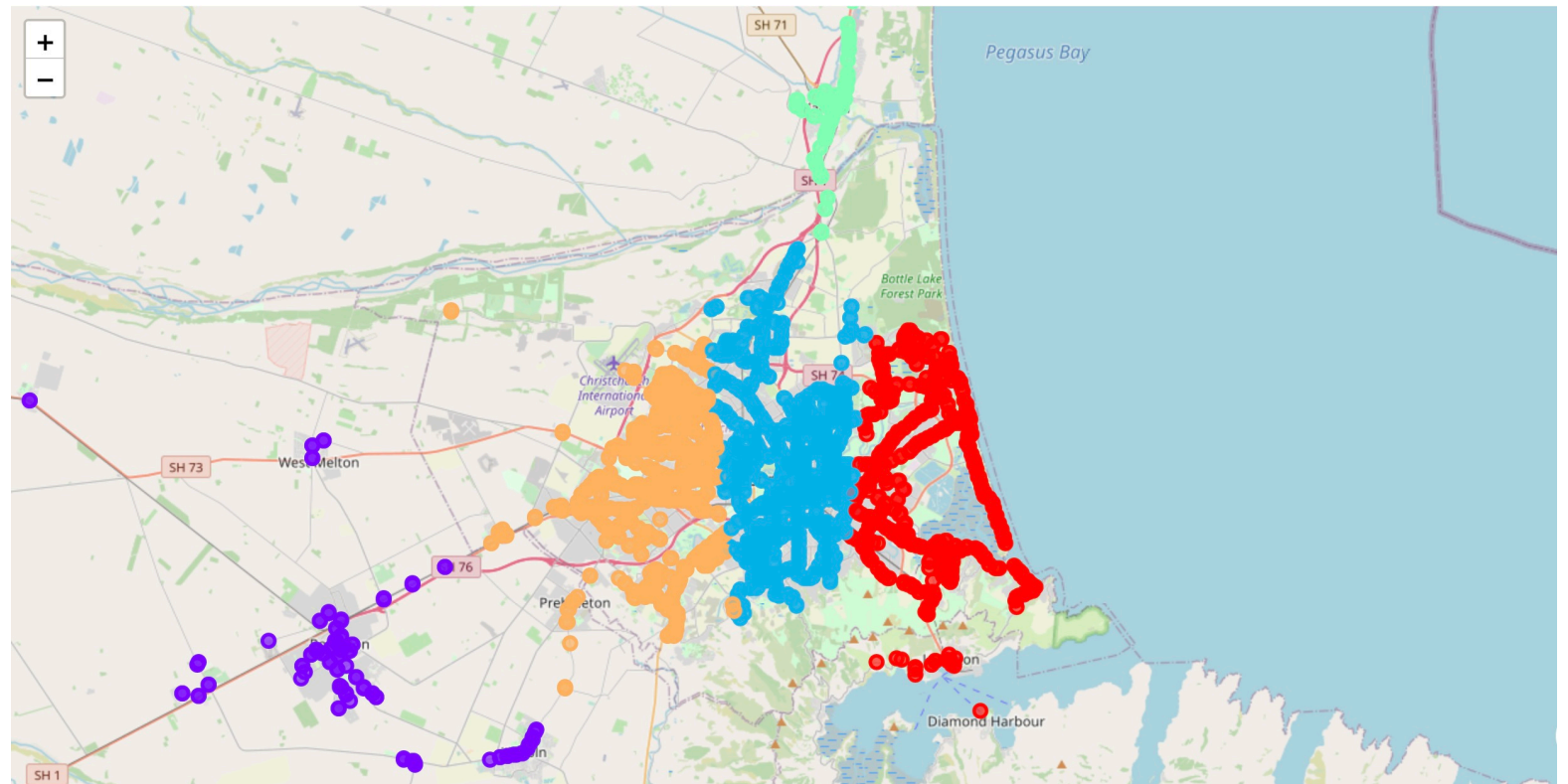
# RESULTS AND ANALYSIS



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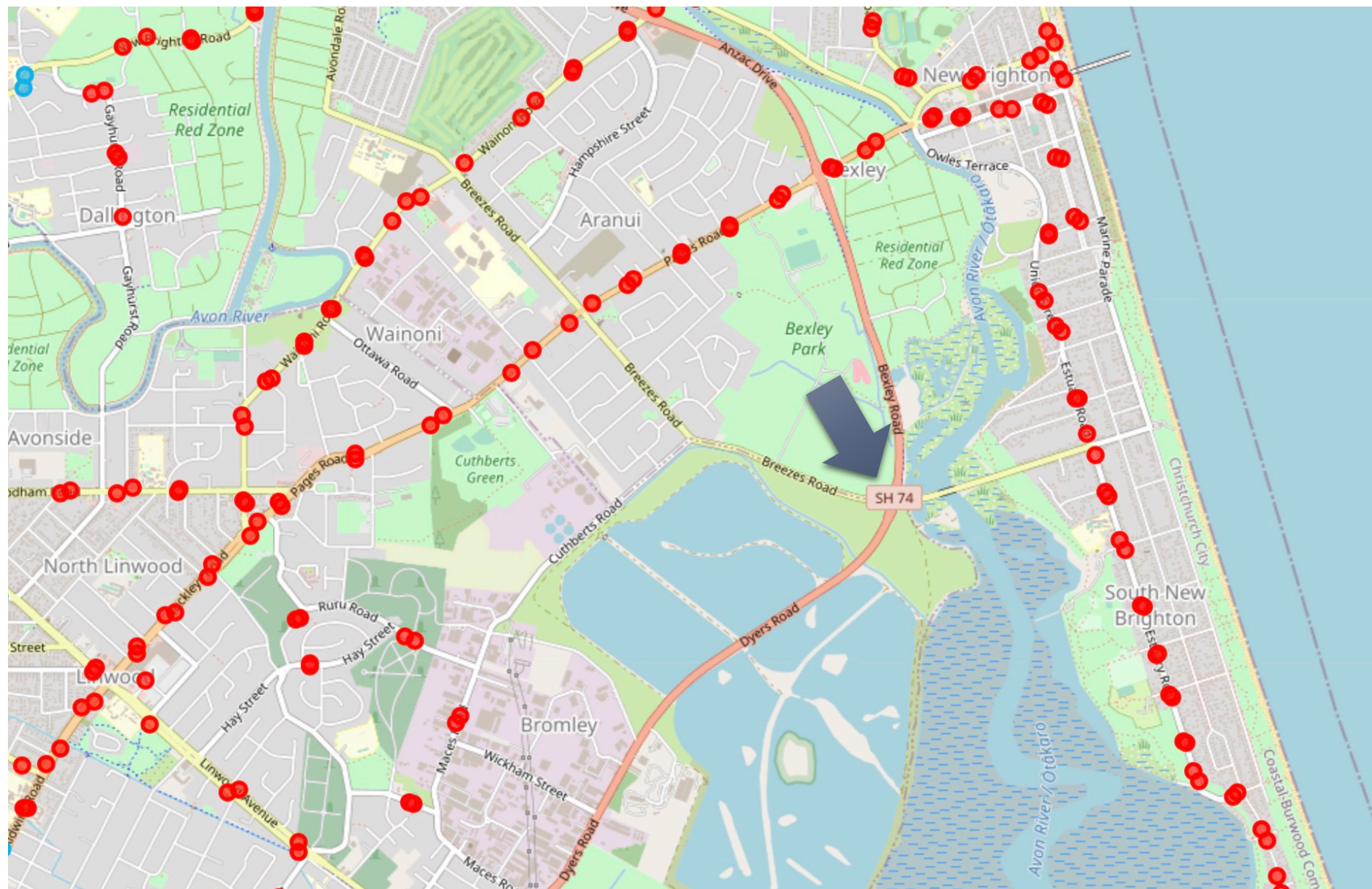
# RESULTS AND ANALYSIS

- Cluster 0: **Red**
- Cluster 1: **Purple**
- Cluster 2: **Blue**
- Cluster 3: **Green**
- Cluster 4: **Orange**

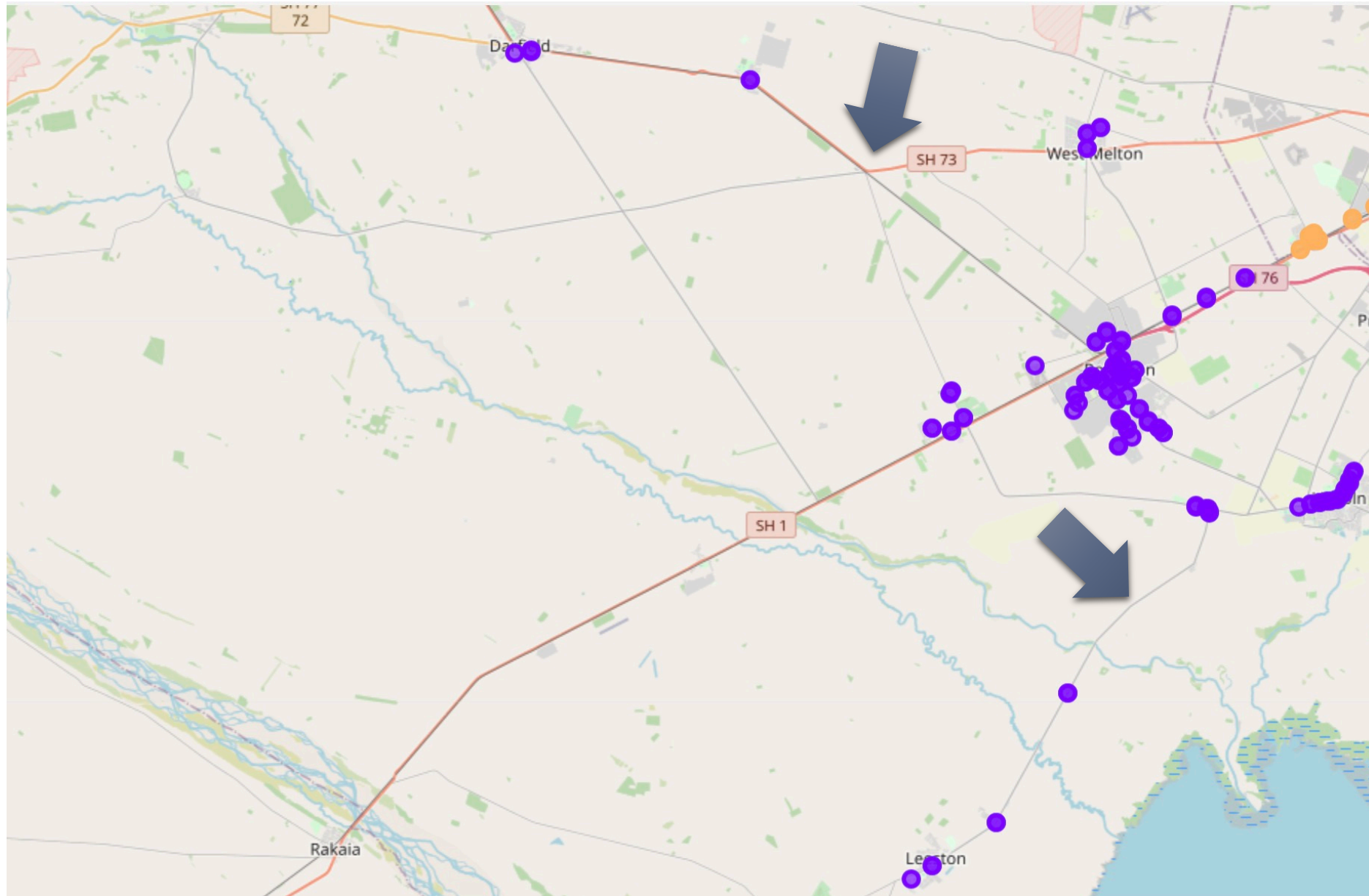




# CLUSTER 0

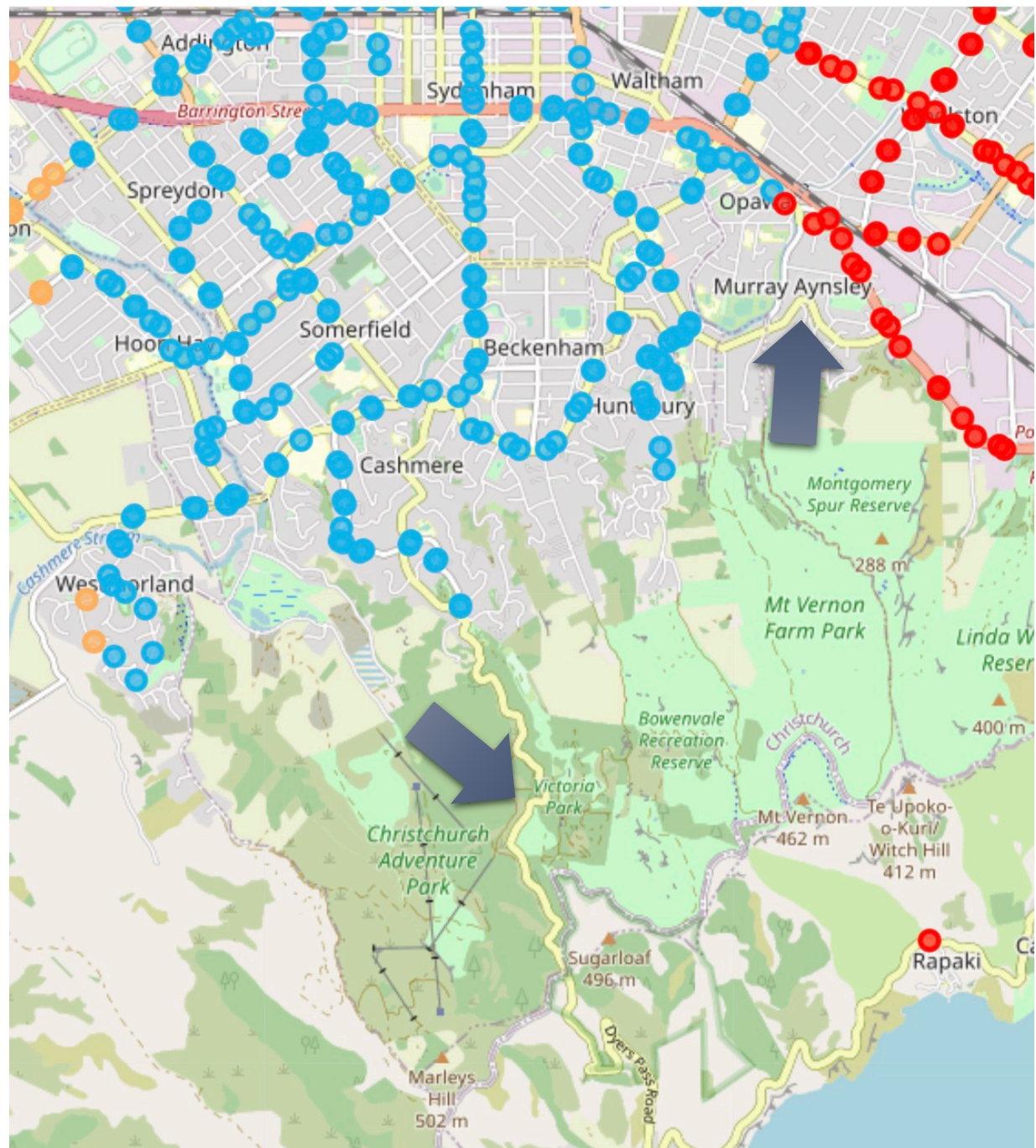


# CLUSTER 1

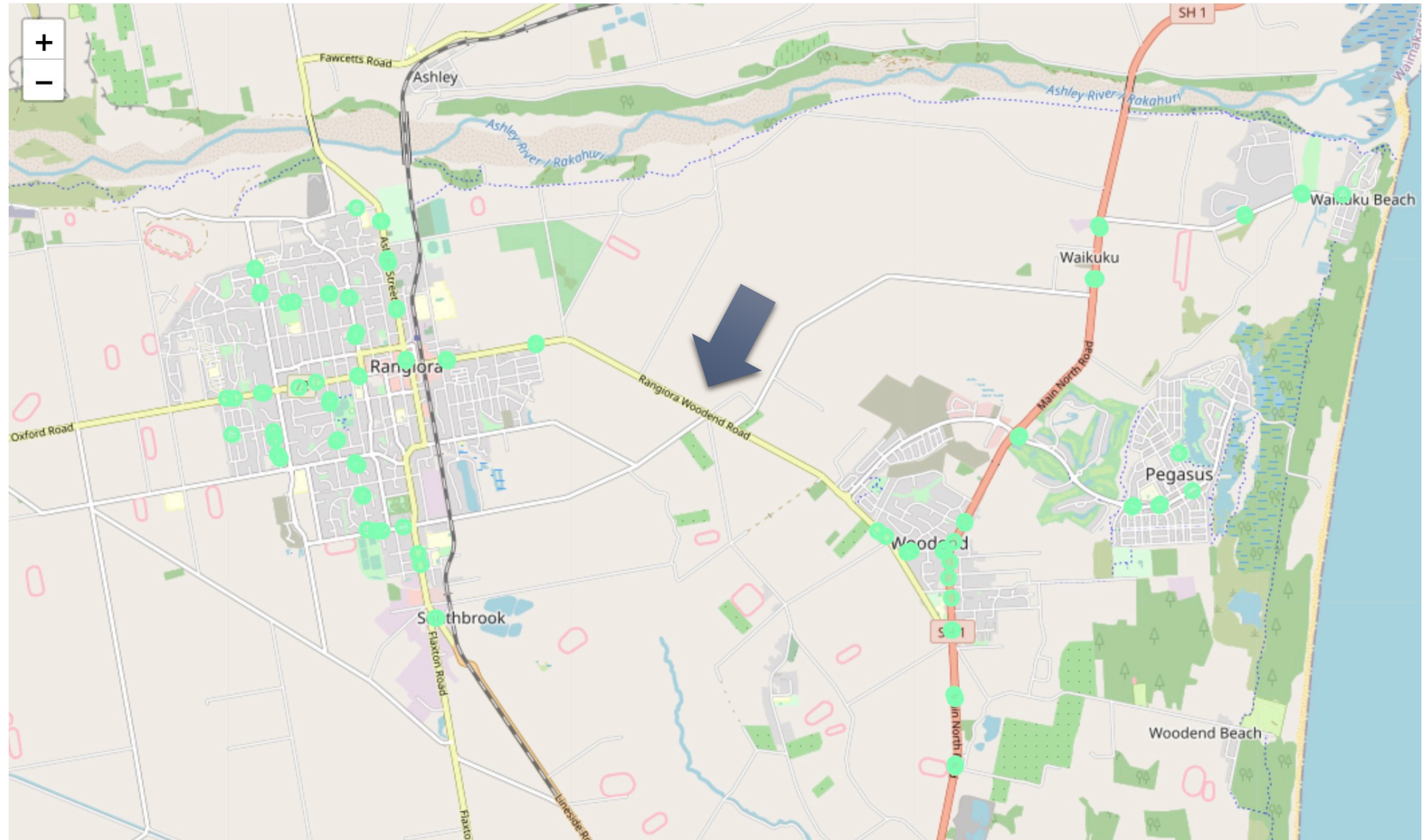




# CLUSTER 2



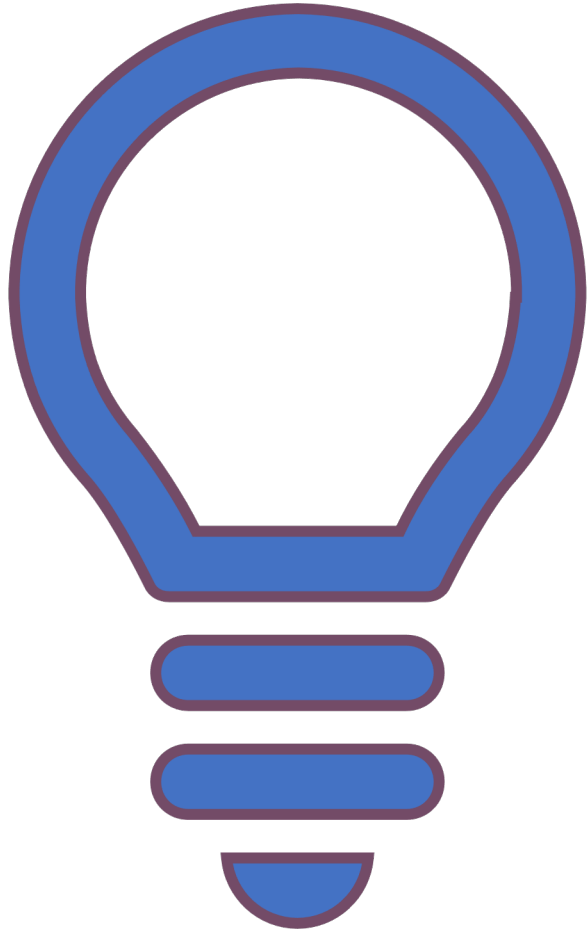
# CLUSTER 3





# CLUSTER 4





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## RECOMMENDATIONS

Build new bus stops on Breezes Road, SH73, Leeston Road, Centaurus Road, Port Hills Road and Rangiora Woodend Road, if they will not cause safety or great cost concerns.



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# REFERENCE

- Canterbury Regional Council. (2021, March 5). *Bus Stops*.  
Canterbury Maps.  
<https://opendata.canterburymaps.govt.nz/datasets/bus-stops>
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