EVRoam - An Update and Potential EV Research Topics

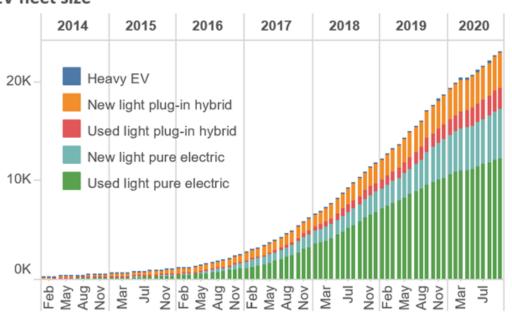
Transport Emissions Knowledge Hub – 3 Dec 2020





NZ Electric Vehicle (EV) Fleet

EV fleet size



EV Fleet as at Oct 20
23,046 EVs
1.9% of new registrations
0.55% of fleet (Dec 19)
75% Individual owner
77% BEV
Concentrated in Auckland



EVROAM

Background

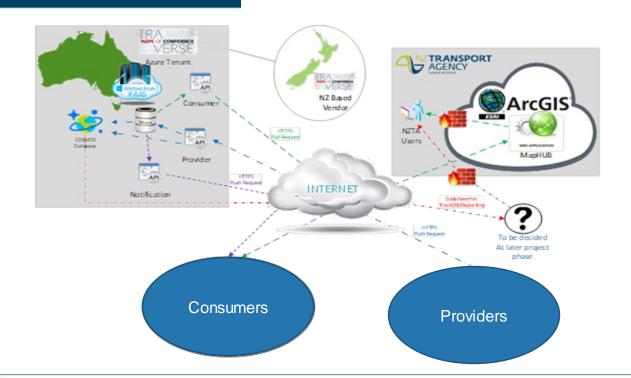
- Developed as part of Waka Kotahi Electric Vehicle (EV) Programme of Work.
- An initiative launched in July 2018 to make travelling by EV safer and more reliable.
- Provides a real time data feed to take the uncertainty out of the location and availability of nationwide charging stations.
- The data is then made available to third party consumer-facing apps.

EVROAM VISION

A live database that is the single source of truth for the nationwide network of Electric Vehicle charging stations.

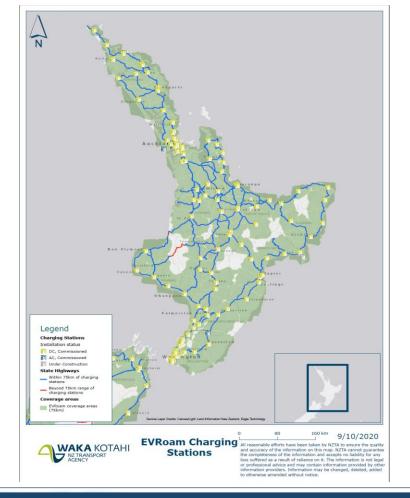


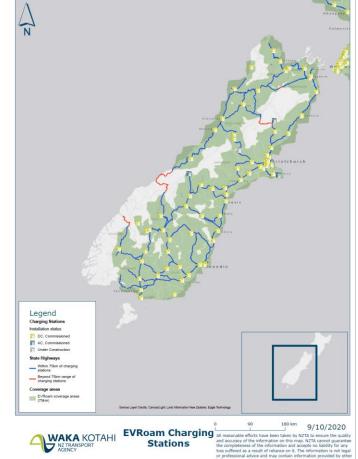
EVROAM







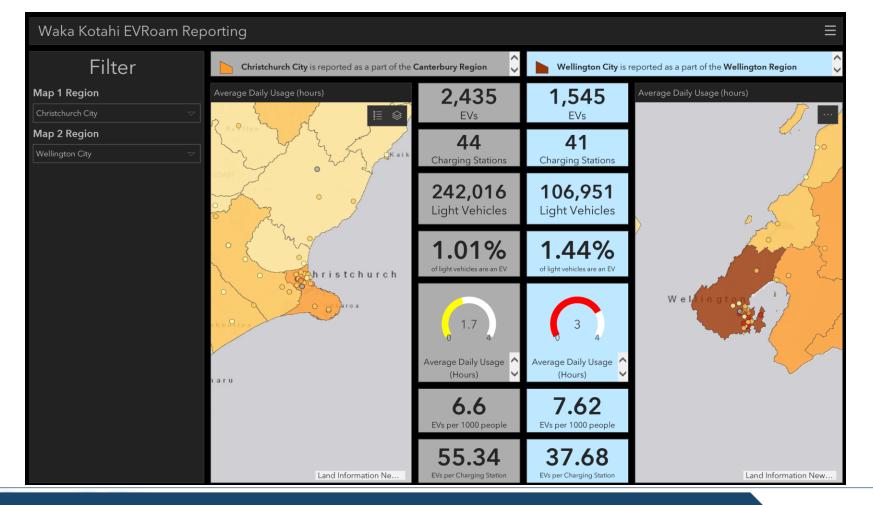




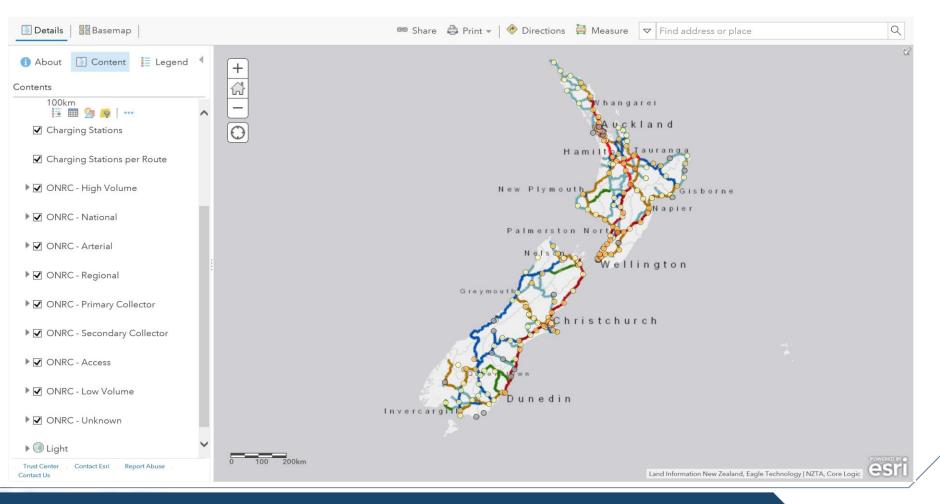


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Additional Data and Potential Research Topics

- To continue to support a level of public fast charging infrastructure that together with home charging and slow public charging will make it convenient
 to travel across town and New Zealand in a light electric vehicle, we need to
 add more data and research in areas such as;
 - Areas with seasonal or highly variable travel patterns
 - Changing urban landscapes high density developments with no off street charging options
 - EV owners and their experiences to shape up future needs in a changing environment
 - Electricity network demand
 - Battery and charging technology trends

