Christchurch E-scoter trial: Findings, and thoughts on the future of micro-mobility in cities

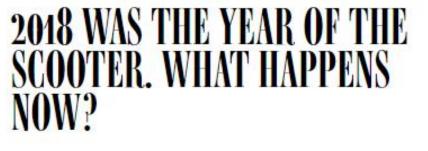
Nick Lovett - Strategic Transport Planner, Christchurch City Council Nick.Lovett@ccc.govt.nz





##

AARIAN MARSHALL TRANSPORTATION 12.30.18 07:00 AM





Scooter companies like Lime, Bird, Spin, Scoot, and Skip exploded onto the transportation scene this year. Now they have to figure out how to differentiate themselves from their competitors. The DAVID PAUL MORRIS/GETTY IMAGES

CITYLAB

DESIGN / TRANSPORTATION / ENVIRONMENT / EQUIT



Prepare now for the tiny vehicle takeover. // Kathy Willens/AP

Why Little Vehicles Will Conquer the City

BENJAMIN SCHNEIDER JUN 21, 2018

≡ **લ ≟ Inc**.

Are Investors in Scooter Platforms Betting on a Fad?

Despite venture capitalist's enthusiasm, I expect the demand for scooter rentals to drop steeply, and soon.

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By Alex Moazed Founder and CEO, Applico У @AlexMoazed

Opportunities

Q

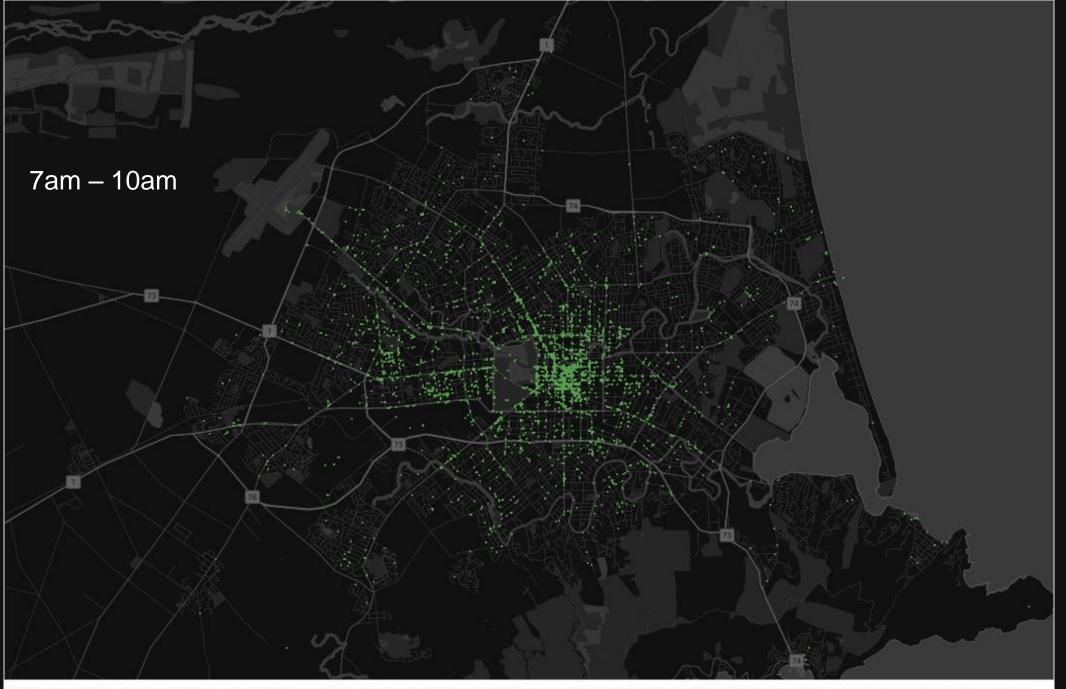
Risks



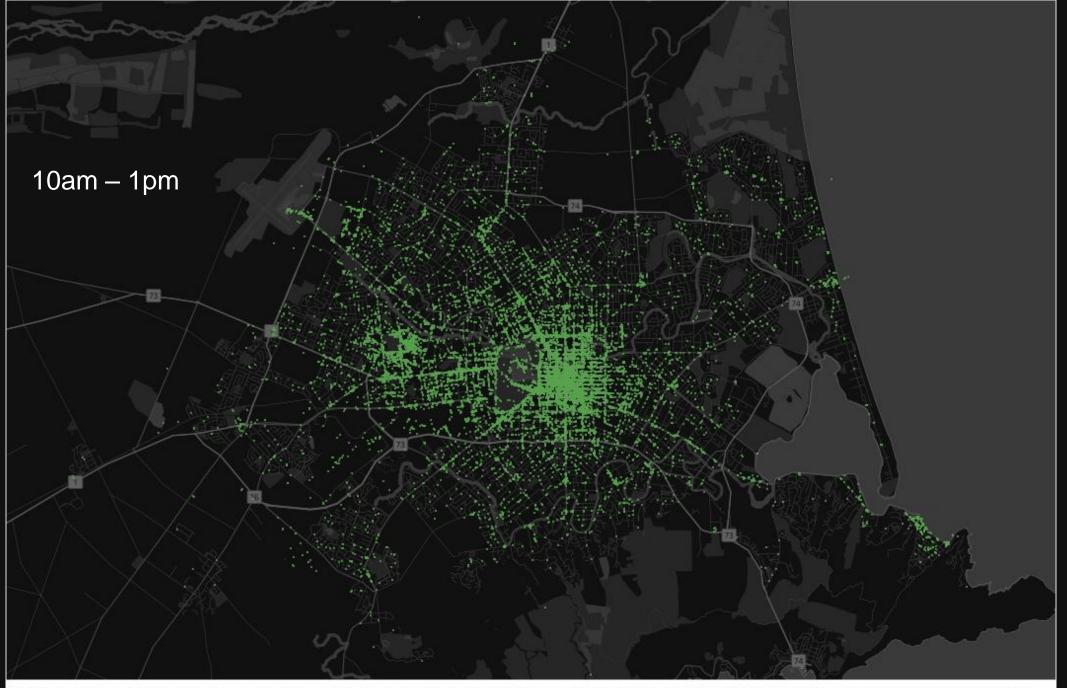
What do we want from our transport system?



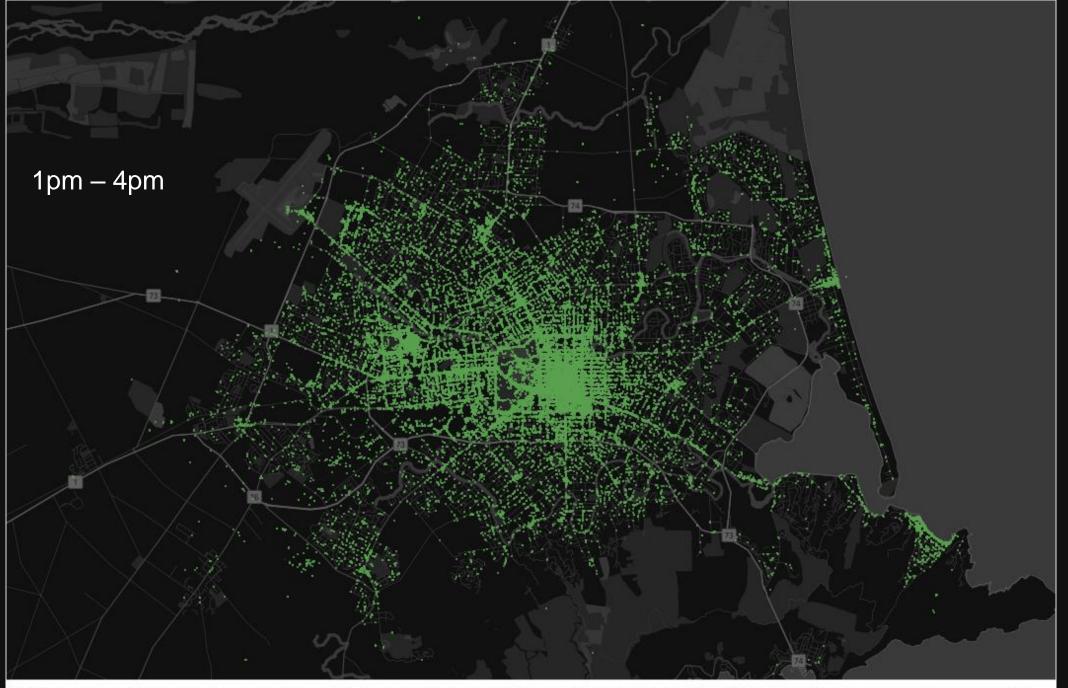




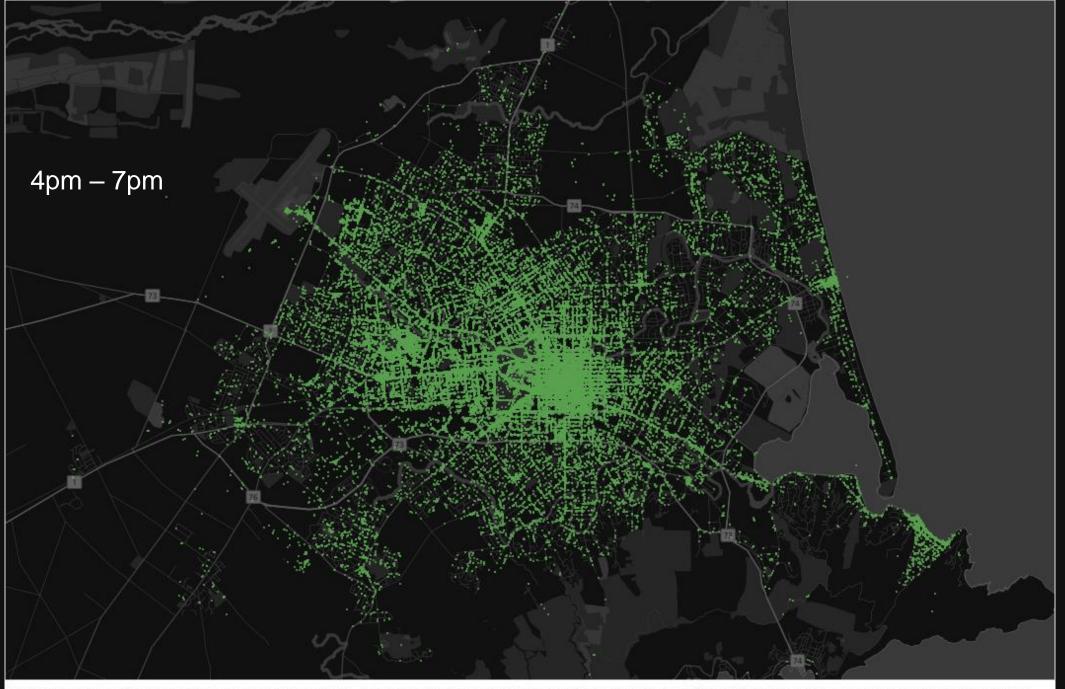
Map based on average of Start Longitude and average of Start Latitude. Color shows details about InFourAves. Details are shown for Trip Id. The data is filtered on Start Hour (group) and Start Month. The Start Hour (group) filter keeps 7 am to 10 am. The Start Month filter keeps January, October, November and December.



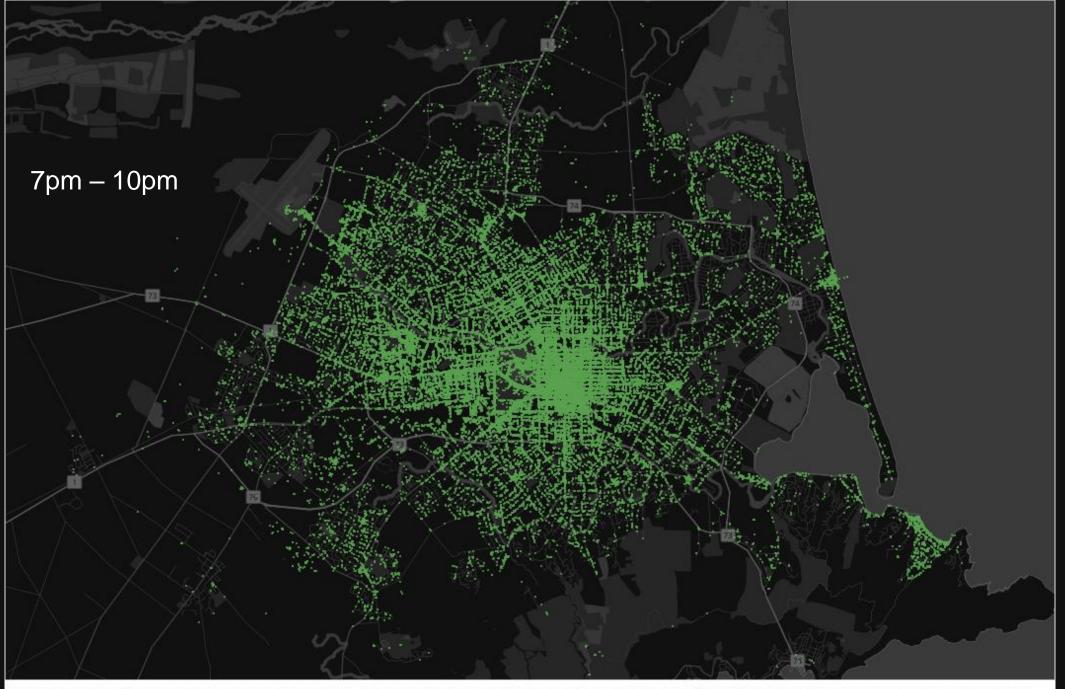
Map based on average of Start Longitude and average of Start Latitude. Color shows details about InFourAves. Details are shown for Trip Id. The data is filtered on Start Hour (group) and Start Month. The Start Hour (group) filter keeps 10am to 1pm. The Start Month filter keeps January, October, November and December.



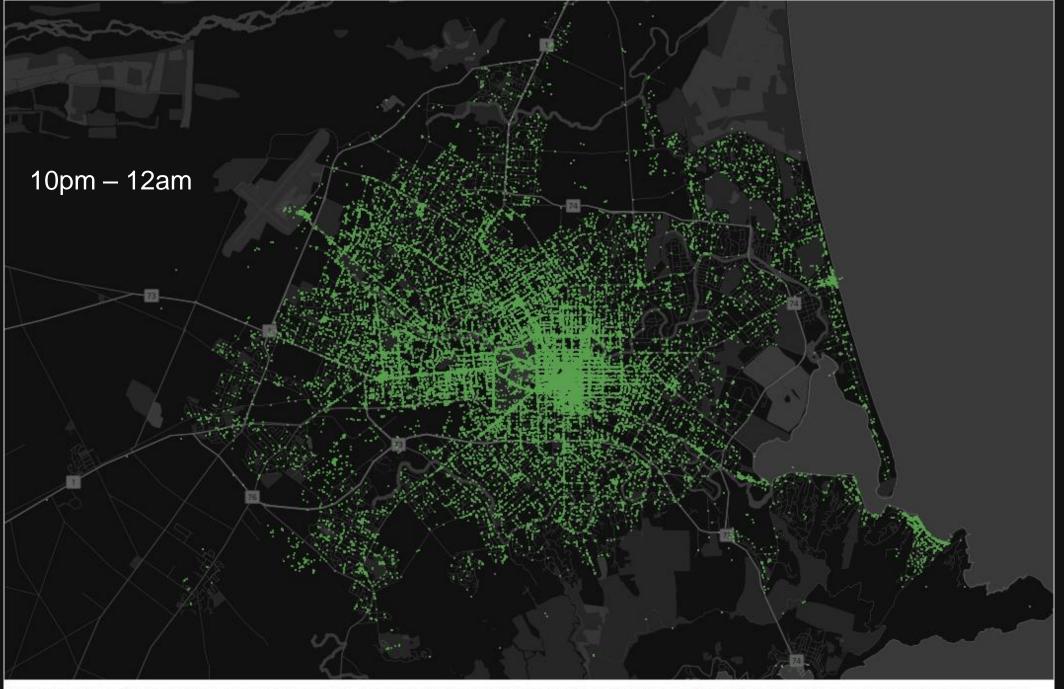
Map based on average of Start Longitude and average of Start Latitude. Color shows details about InFourAves. Details are shown for Trip Id. The data is filtered on Start Hour (group) and Start Month. The Start Hour (group) filter keeps 1pm to 4pm. The Start Month filter keeps January, October, November and December.



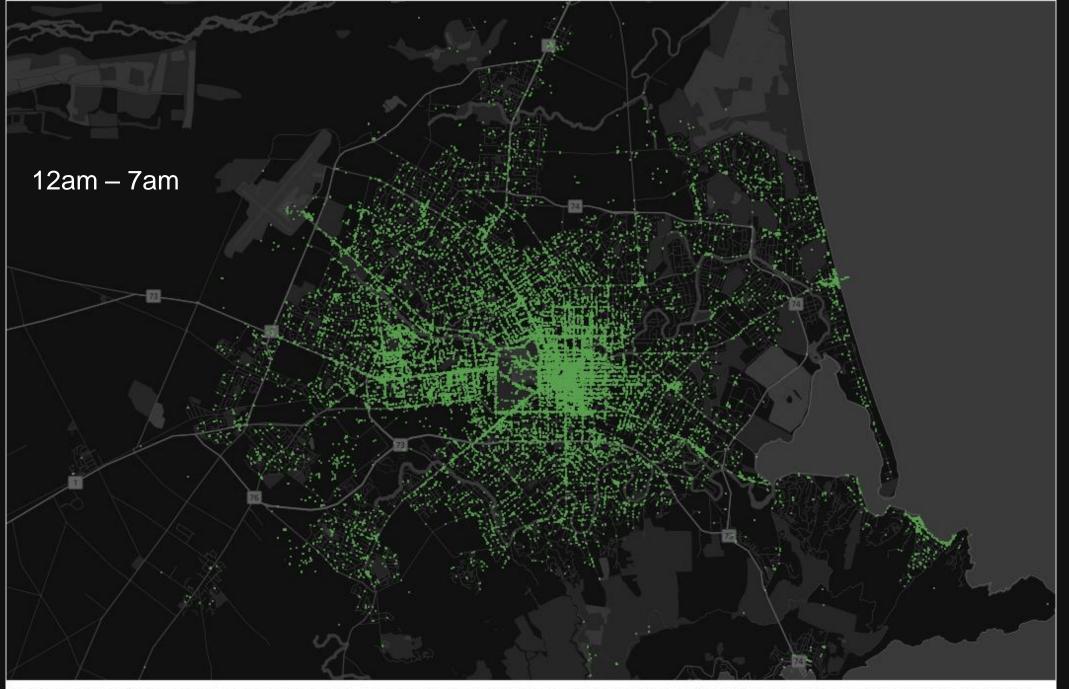
Map based on average of Start Longitude and average of Start Latitude. Color shows details about InFourAves. Details are shown for Trip Id. The data is filtered on Start Hour (group) and Start Month. The Start Hour (group) filter keeps 4pm to 7pm. The Start Month filter keeps January, October, November and December.



Map based on average of Start Longitude and average of Start Latitude. Color shows details about InFourAves. Details are shown for Trip Id. The data is filtered on Start Hour (group) and Start Month. The Start Hour (group) filter keeps 7pm to 10pm. The Start Month filter keeps January, October, November and December.

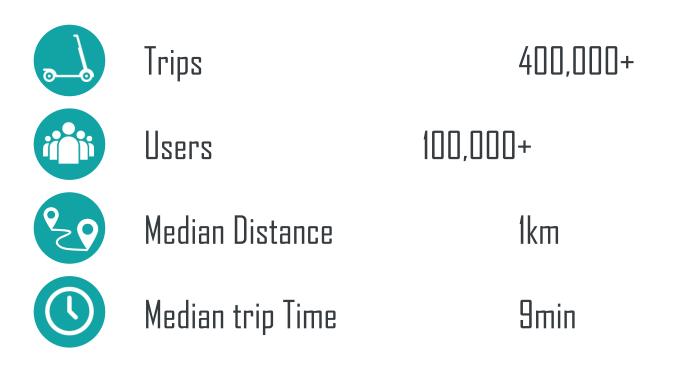


Map based on average of Start Longitude and average of Start Latitude. Color shows details about InFourAves. Details are shown for Trip Id. The data is filtered on Start Hour (group) and Start Month. The Start Hour (group) filter keeps 10pm to midnight. The Start Month filter keeps January, October, November and December.



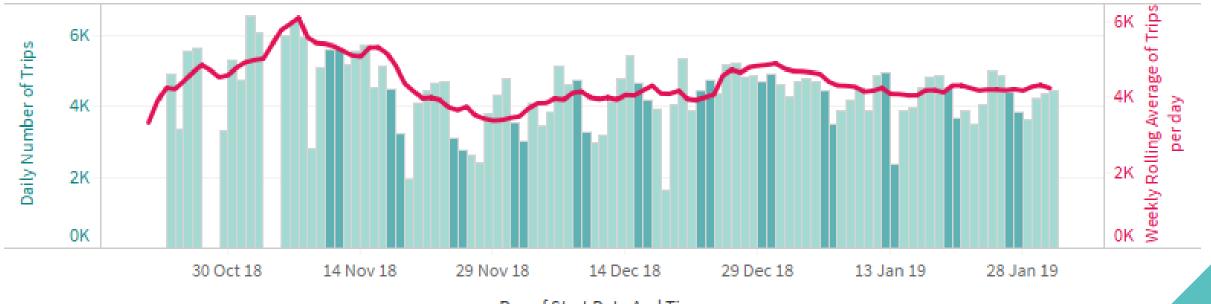
Map based on average of Start Longitude and average of Start Latitude. Color shows details about InFourAves. Details are shown for Trip Id. The data is filtered on Start Hour (group) and Start Month. The Start Hour (group) filter keeps Early Morning (midnight to 7am). The Start Month filter keeps January, October, November and December.

Recap - E-scooter trial (90 days of data) How are they used?



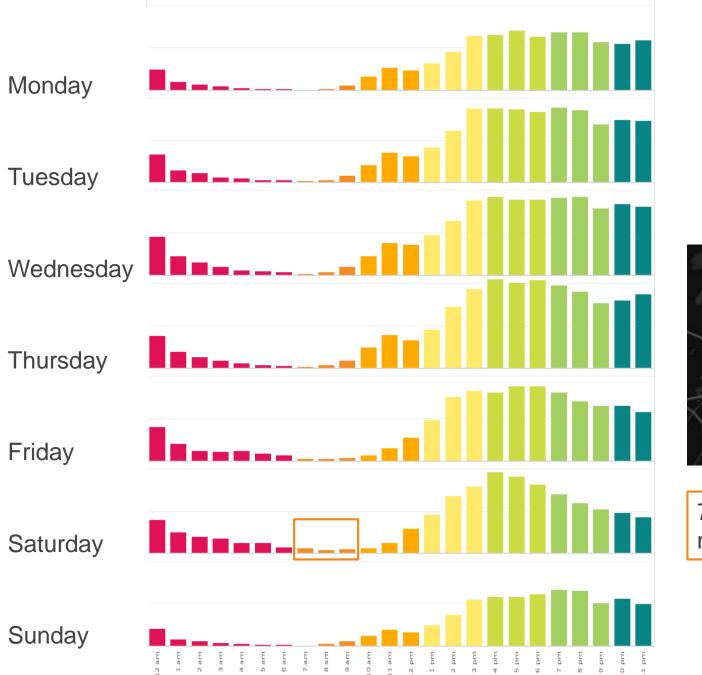


Trip volumes



Day of Start Date And Time



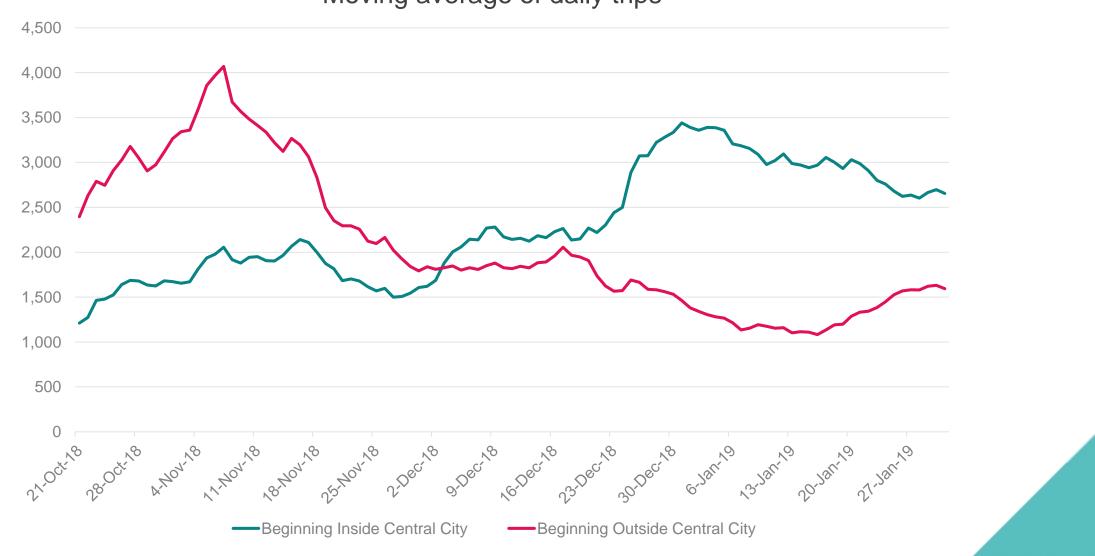


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7am to 10am Saturday, longest median trip distance - 1.8km



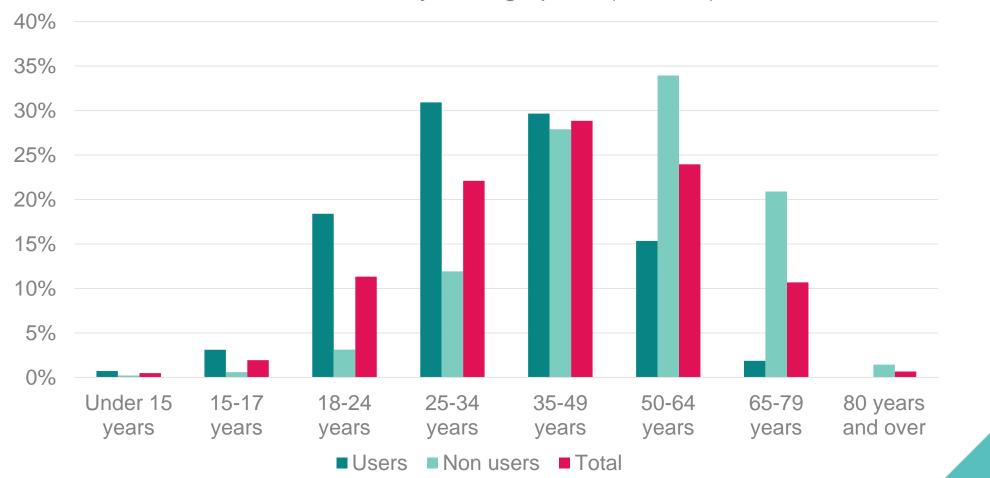


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Moving average of daily trips

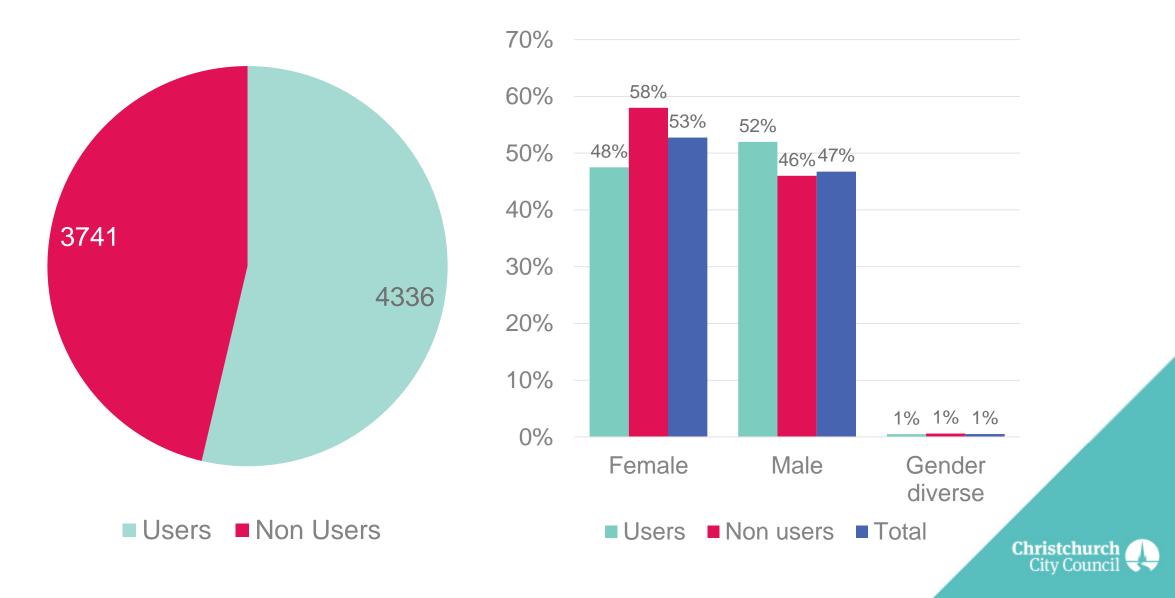
CCC Survey - Demographics

E-scooter survey demographics (n=8,079)



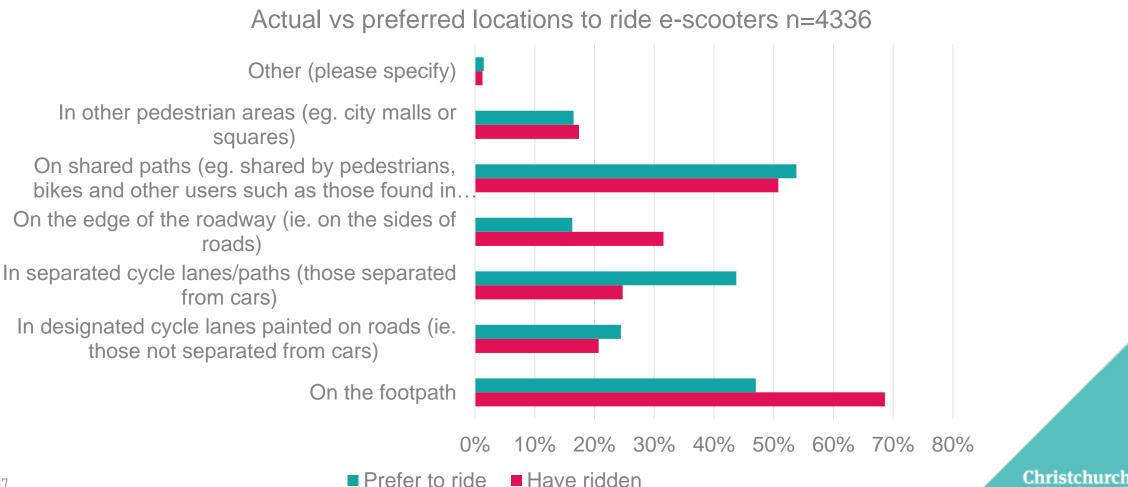
Christchurch City Council

Demographics continued



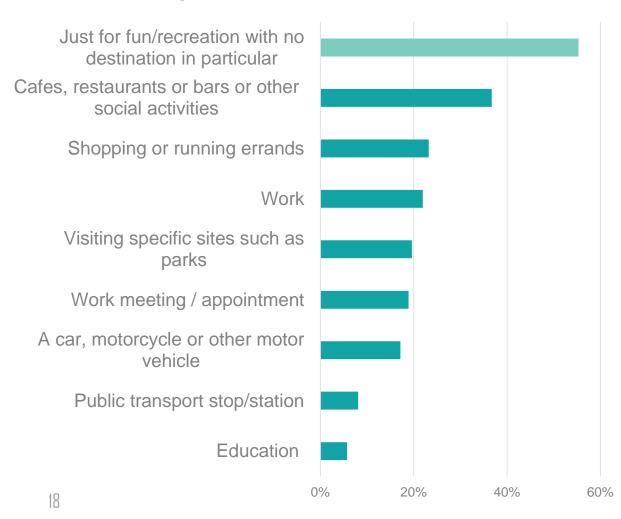
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Usage locations

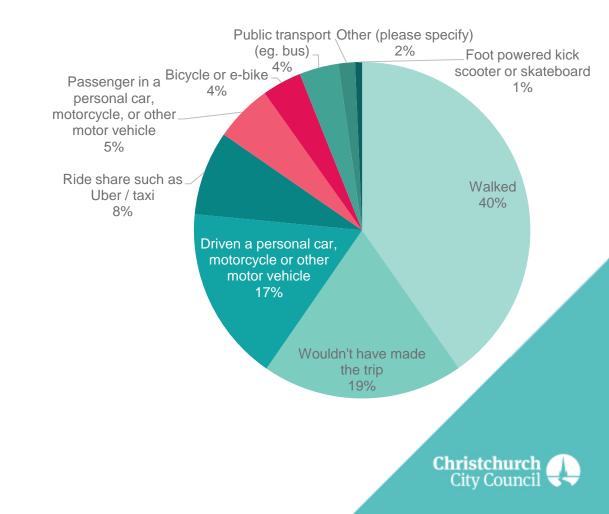


Citv Council

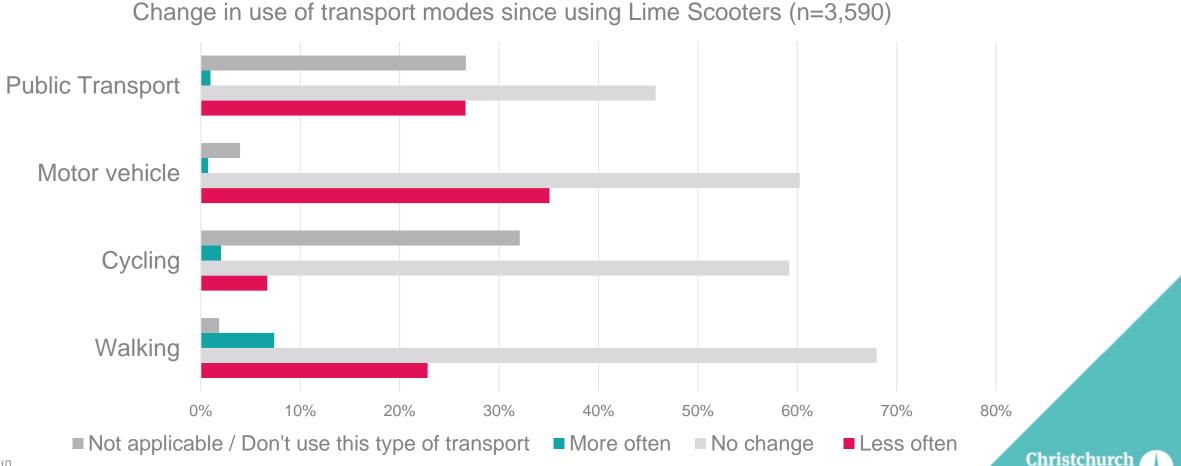
Main origin destinations on escooter trips (n=4,336)



Alternate modes on most recent escooter trip (n=3,872)



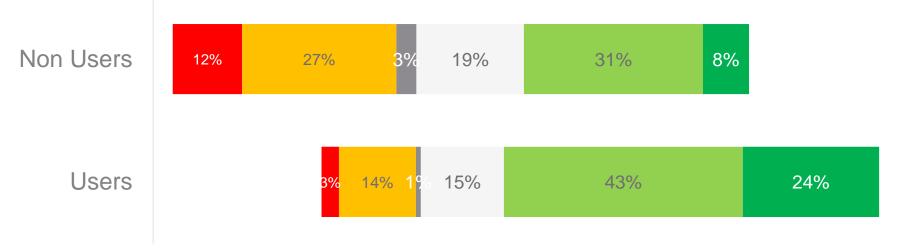
Change in transport habits since using Lime scooters



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I am confident I know what the road rules / laws are in relation to escooter use in New Zealand (n=8,079)

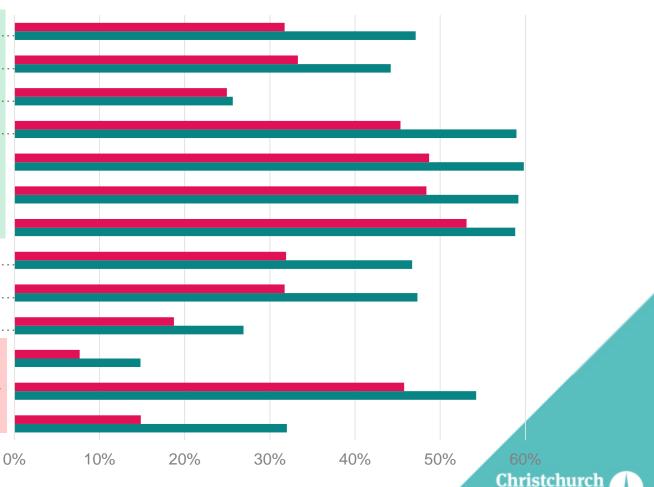


Strongly disagree Disagree Don't know Neither agree nor disagree Agree Strongly agree



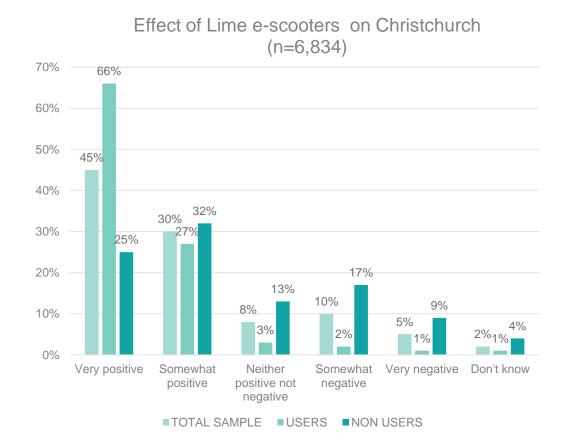
What are the road rules?

The NZ Police can issue fines if e-scooter riders break e-scooter road. On the road, riders must operate e-scooters as close as practicable to. Riders are not allowed to ride in designated cycle lanes painted on. Riders must give way to pedestrians and people using mobility devices. Riders must ride in a careful and considerate manner on footpaths Riders must not ride at speeds that put other footpath users at risk Riders are allowed to ride on footpaths Riders are allowed to ride in separated cycle lanes/paths (ie. those. Riders must obey breath and blood alcohol limits while operating e-. Councils can issue fines if e-scooter riders break e-scooter road rules / Riders must have a valid drivers licence Riders must be 18 years or older Riders must wear helmets when operating e-scooters ■ Non users% Users %

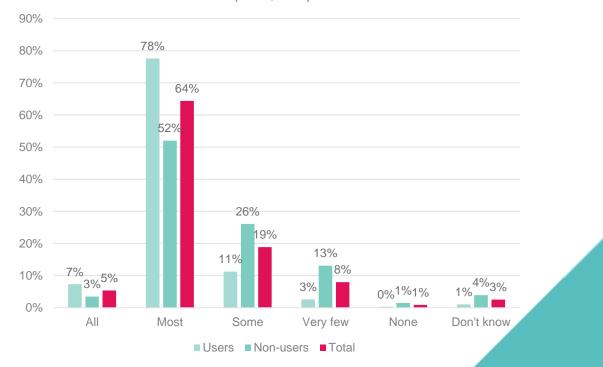


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What do people really think?



Proportion of Lime e-scooter users, riding the escooters in a safe and/or responsible manner (n=6,851)



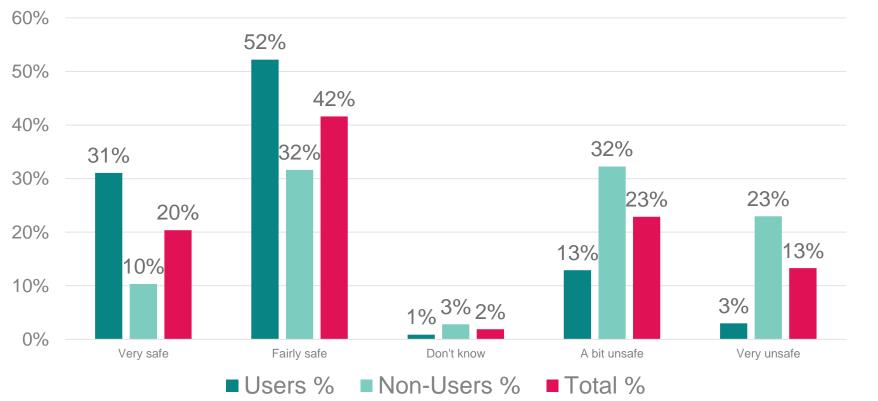
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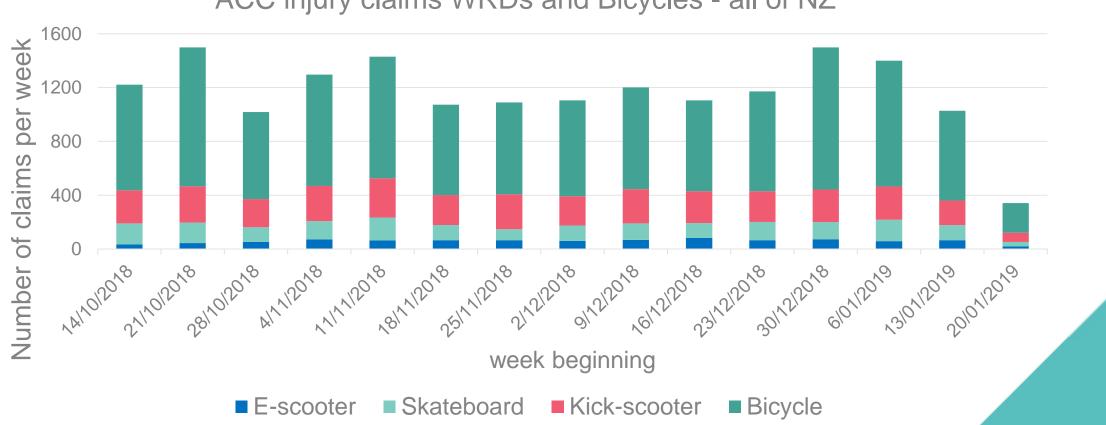
Perceptions of safety

How Safe do you feel sharing pedestrian areas with scooters? (n=6,923)



Christchurch City Council

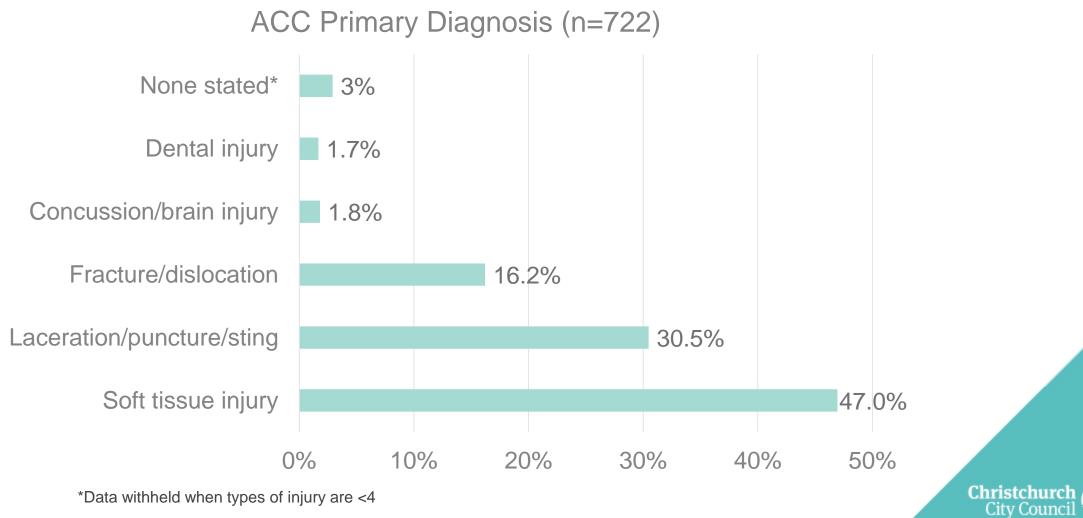
Issues and tensions



Christchurch City Council

ACC injury claims WRDs and Bicycles - all of NZ





*Data withheld when types of injury are <4

What does the future hold?



"The deeper I get into transportation, the more I realize we don't need autonomous vehicles, we don't need tunnels, all we need are more bike lanes,"

- Travis VanderZanden, Bird CEO and Founder



What do we want from our transport system?





What next?



Encourage micro-mobility to complement and supports public transport and multi modal trips



Recognise that pedestrians as most vulnerable and be put first in the hierarchy



Designing infrastructure and public spaces to recognise micro-mobility options.

Managing and require universal open data and standards



Manage fleet sizes in the short and medium term to understand customer demand and oversupply



Vork with control government and other Councils to develop

Levy fees to pay for campaigns and improve public spaces

Work with central government and other Councils to develop regulation, policy frameworks



Christchurch City Council

Thank You

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