



Micromobility Permit Program

2021 Program Evaluation Report



Alignment with Council Priorities



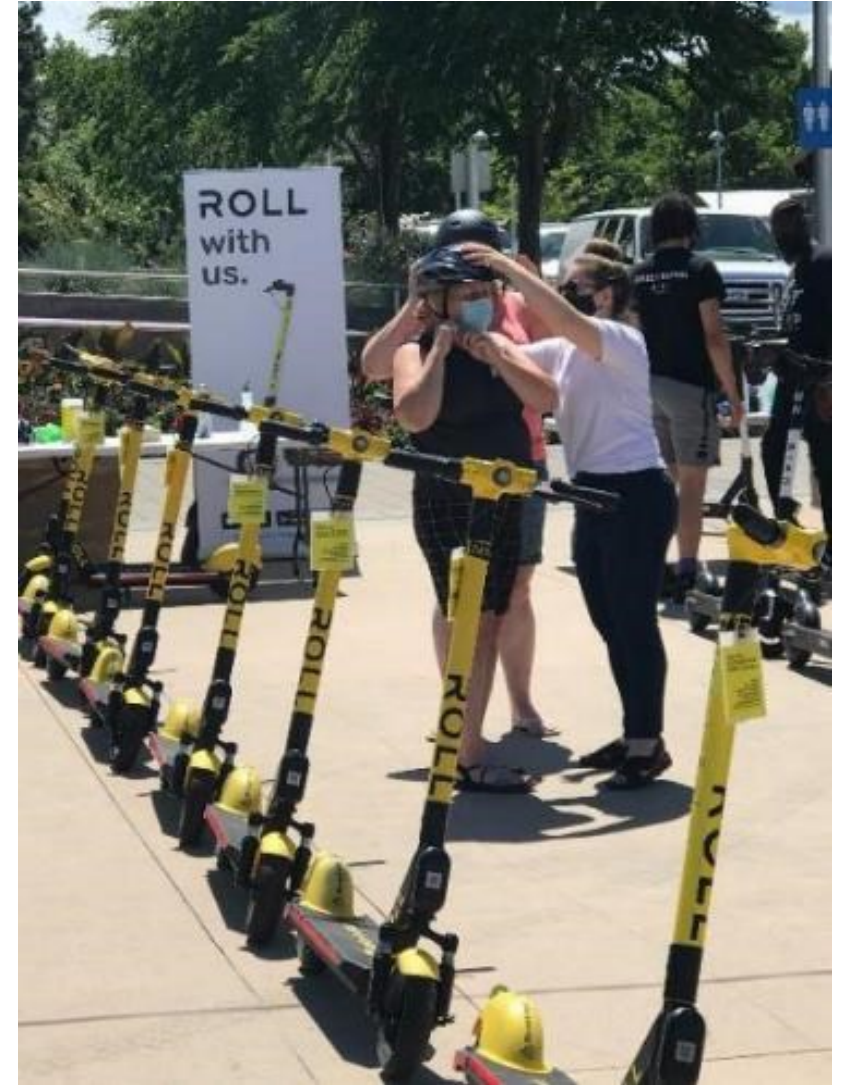
Emerging technologies are making it easier to get around



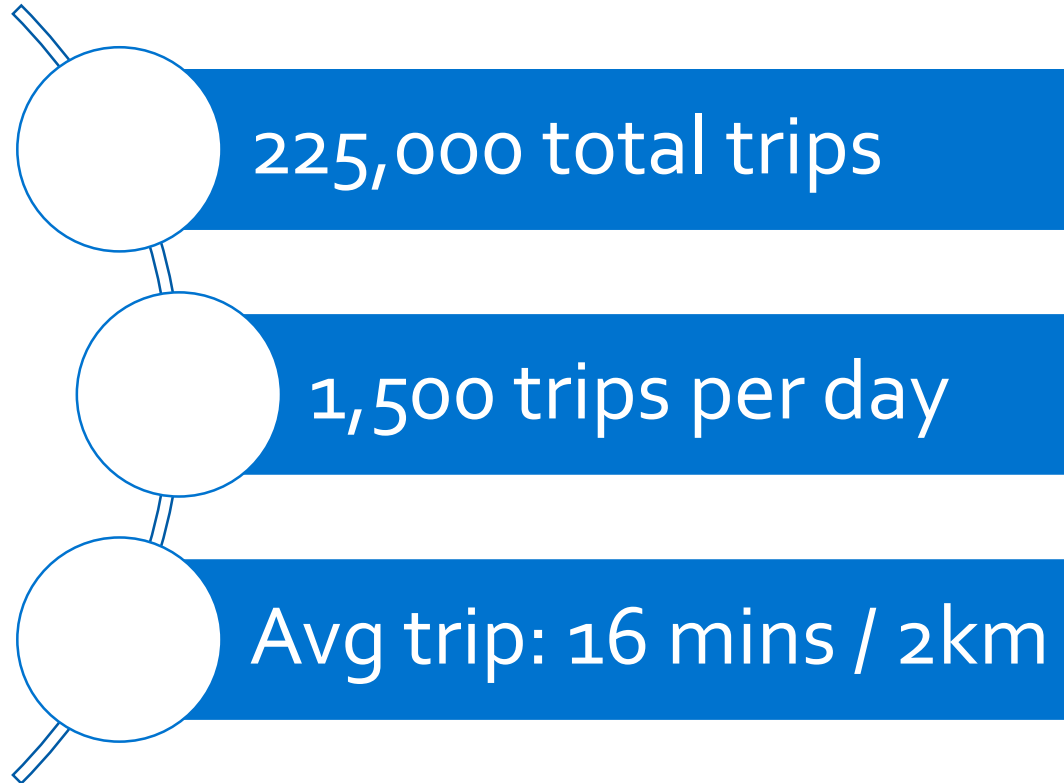
Greenhous gas emmissions are decreasing

Program Evaluation

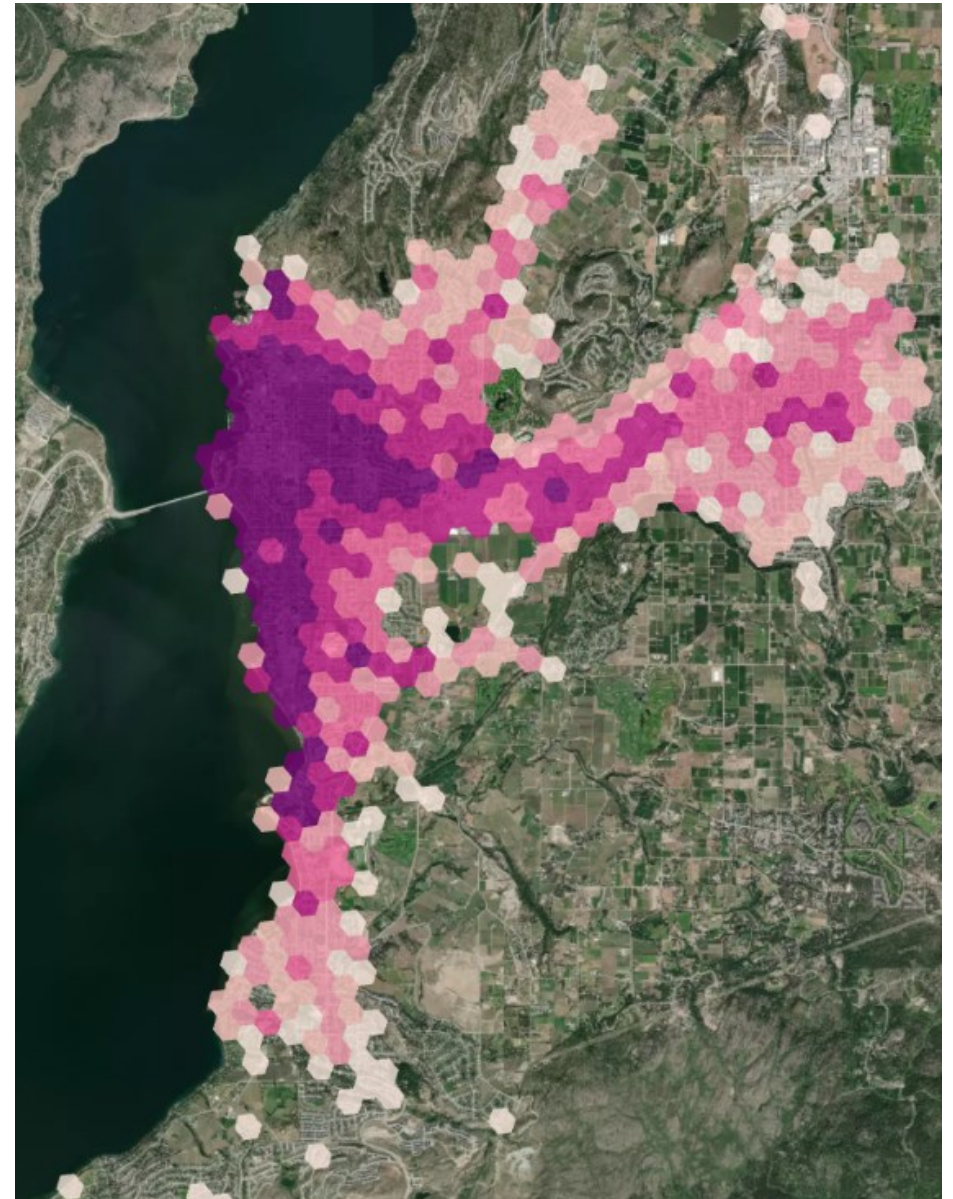
- ▶ Data from e-scooter companies
- ▶ Community feedback
- ▶ Rider surveys
- ▶ Community survey
- ▶ Injury data collected by Interior Health
- ▶ Stakeholder engagement



2021 Ridership snapshot



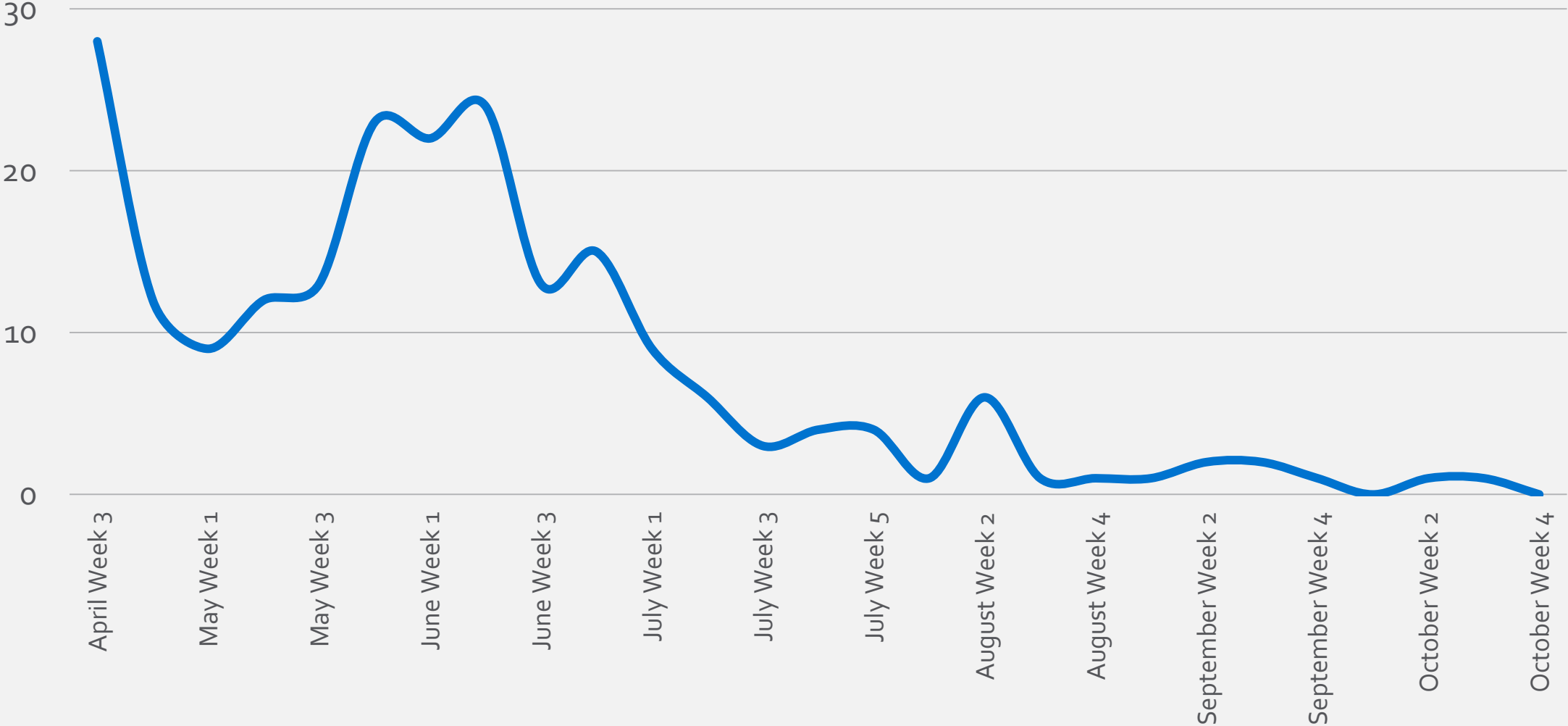
City of Kelowna



E-scooter Trip Destination Map

Complaints about e-scooters are decreasing

Number of complaints received by week



City of Kelowna



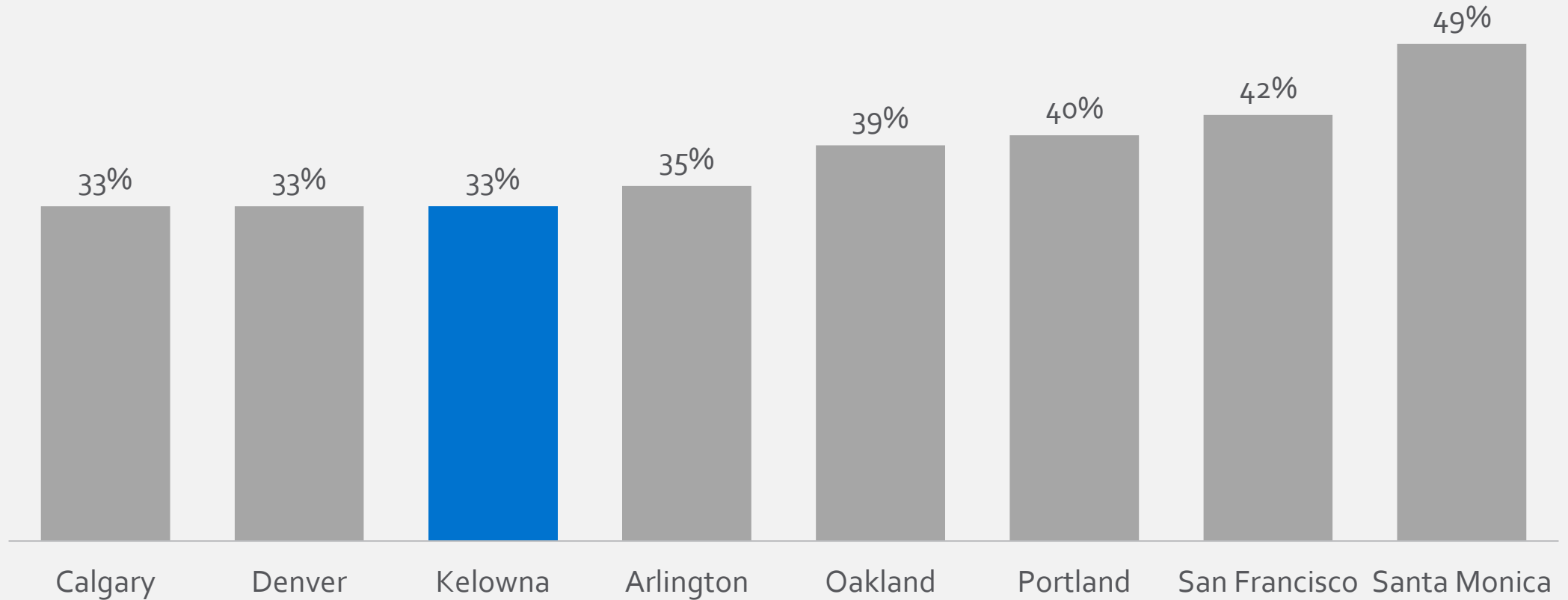
Congestion and Climate

Can e-scooters move people efficiently in a climate friendly way?



One-third of e-scooter trips in Kelowna replace driving

Car replacement rate for e-scooters in North American cities



City of Kelowna

Climate and Congestion

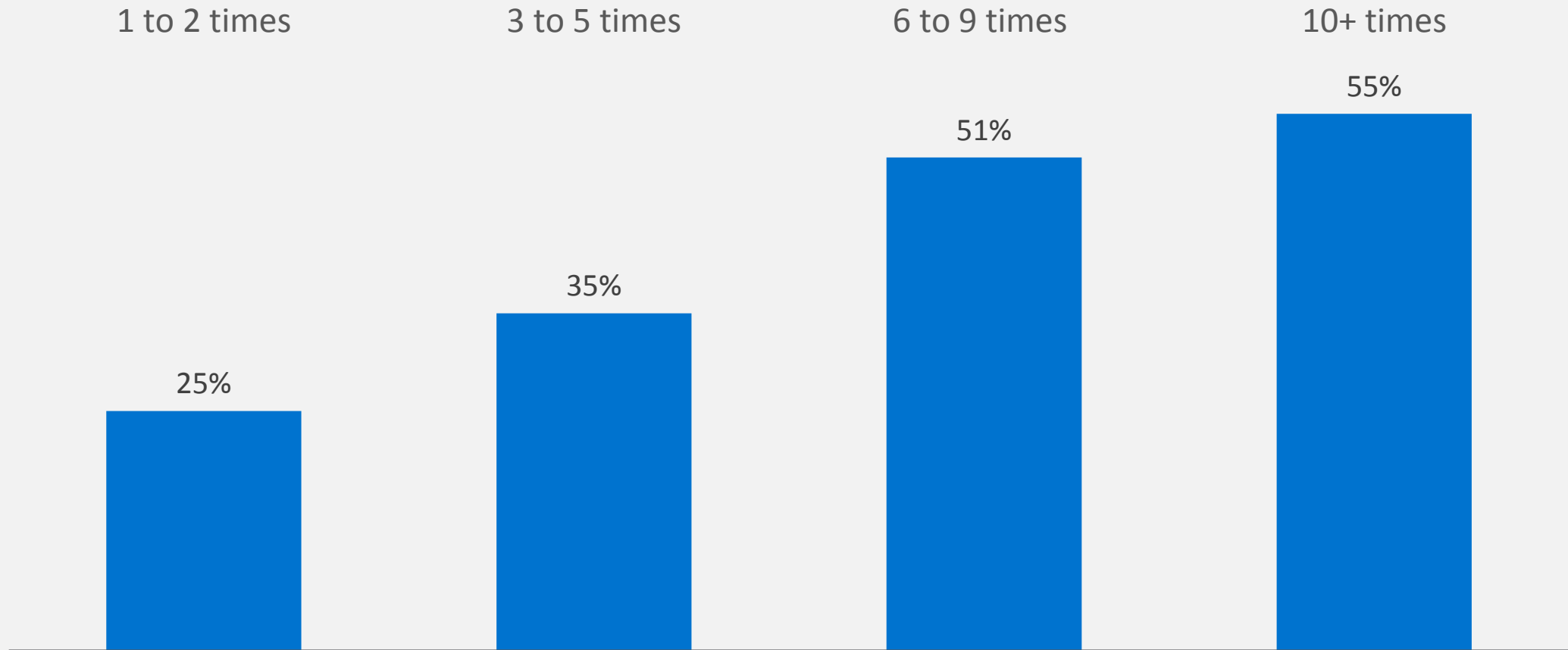
2021 Program Results (April – Oct):

- ▶ 148,500 vehicle km *not driven*
 - ▶ Equivalent of driving around the Earth almost *four times*
- ▶ 29 metric tonnes of direct CO₂ emissions *not released*



Frequent e-scooter users replace driving more often

Car replacement rate among Kelowna residents by times using e-scooters



City of Kelowna



Safety

Can e-scooters help us move people safely?



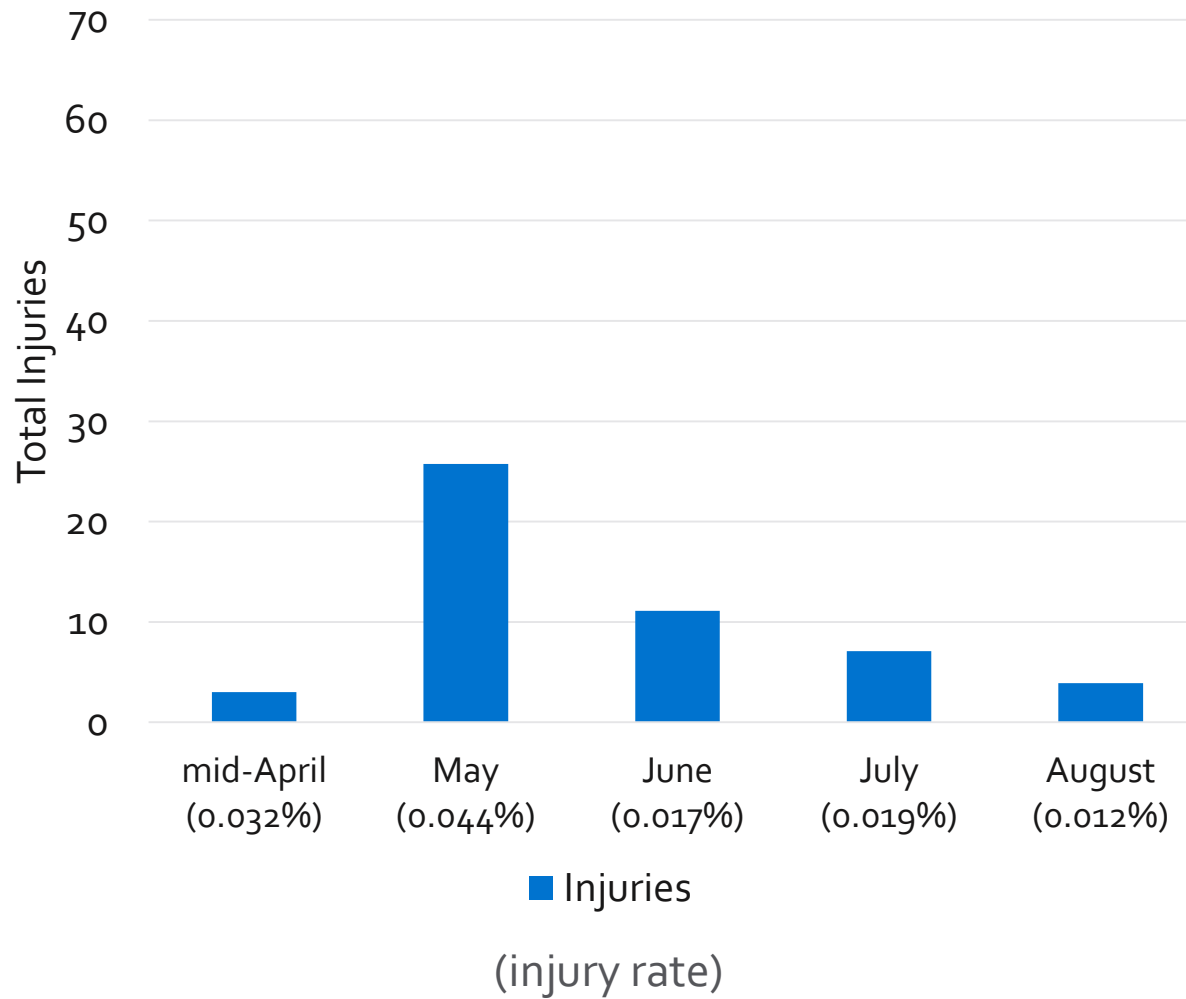
Injury statistics

- ▶ 51 confirmed e-scooter related injuries; 0 fatalities
- ▶ Average injury rate of .025 (25 injuries per 100,000 trips)
- ▶ Global average injury rates:

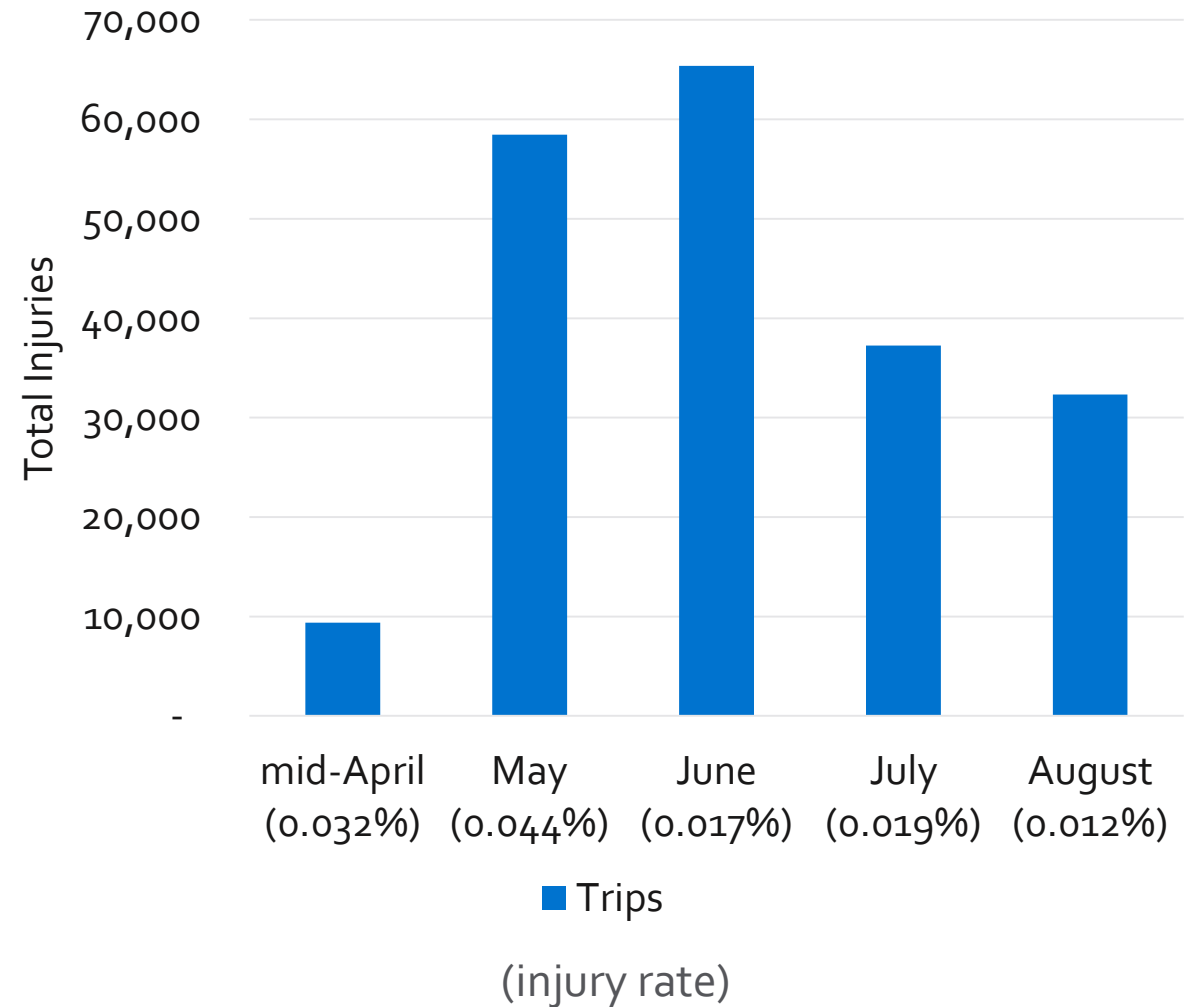
Mode	Injury Rate (Emergency Room Visits)	
E-scooter	8 – 25 per 100,000 trips	.01% - .03%
Bicycle	11 – 18 per 100,000 trips	.01% - .02%

Source: Safe Micromobility, OECD International Transport Forum, 2020

E-Scooter Injuries by Month

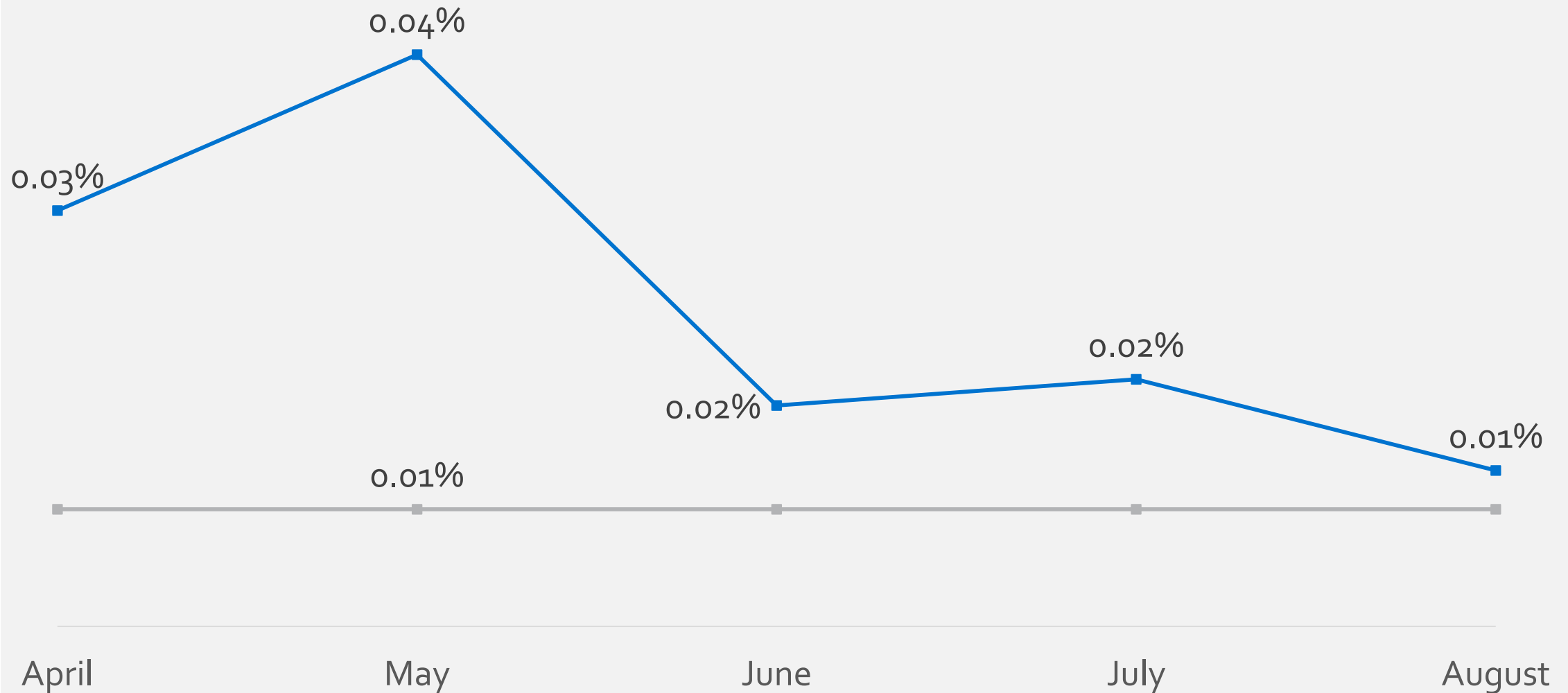


E-Scooter Trips by Month



The injury rate for e-scooters is now similar to bicycles

Estimated share of trips that ended in an injury on ■ E-Scooters ■ Bicycles





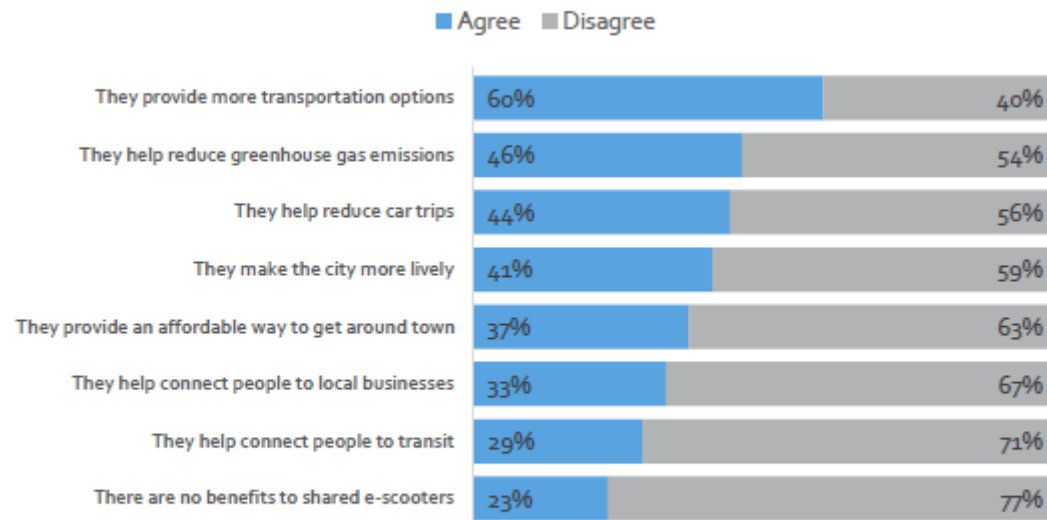
Community Survey



Key findings

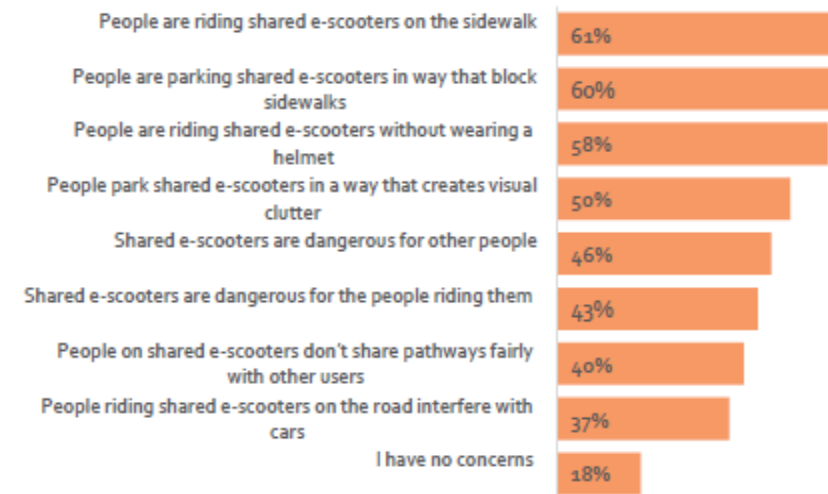
► 698 responses

"In your opinion, what are the main benefits of shared e-scooters in Kelowna?"



People who have tried e-scooters were more likely to agree that they provide transportation options (85 per cent), make the city more lively (72 per cent), and reduce car trips (71 per cent).

"The following are some concerns we have heard from the community. What are your top concerns with shared e-scooters?"



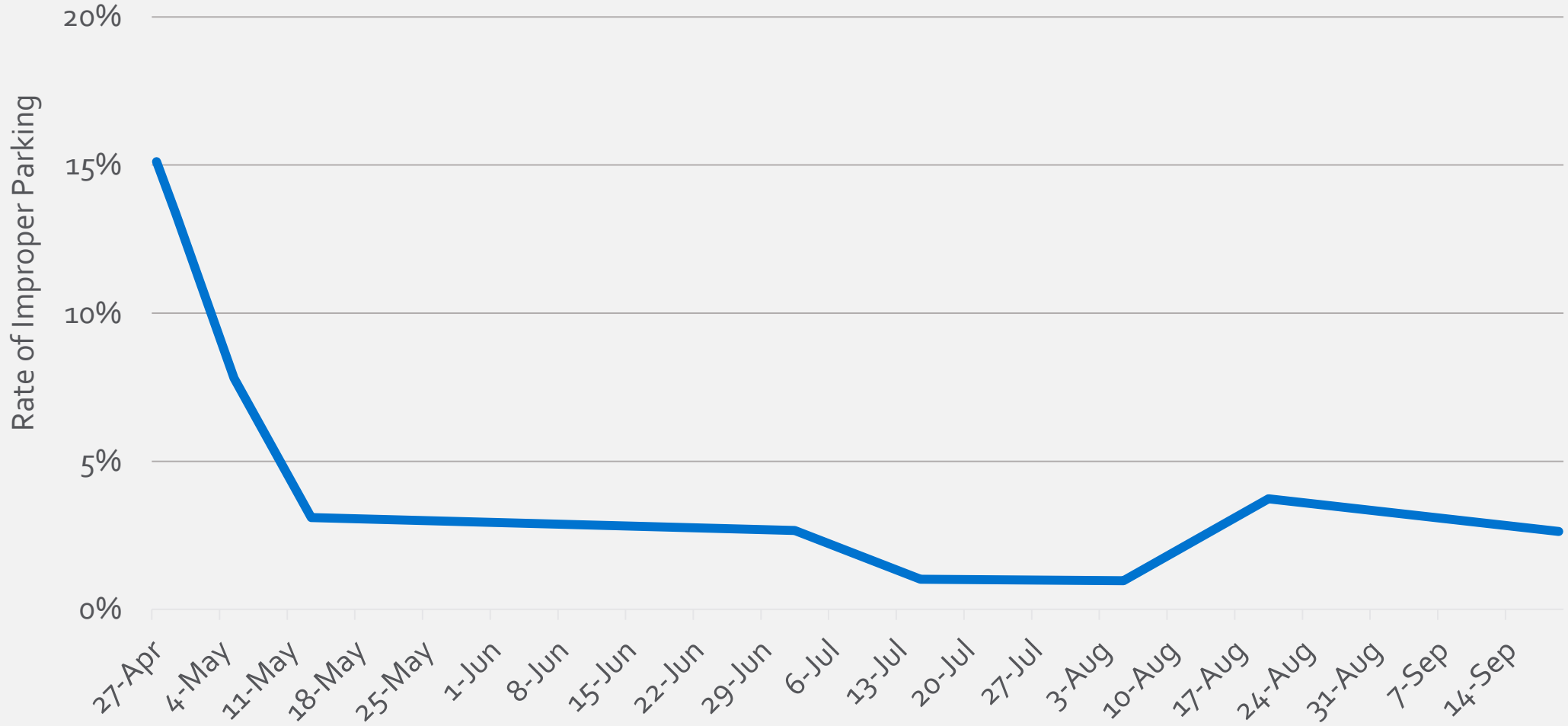
The most cited concern was e-scooters riding and blocking sidewalks. People over 55 were more likely to be concerned about helmet use (82 per cent) compared to people under 55 (41 per cent).



Equity and Accessibility



Parking Audit Results Over Time



City of Kelowna

Next Permit Season

Existing program rules and restrictions

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- Shared Helmets
- Up to 2 companies
- Shared E-bikes and E-scooters
- Administration fee
- 2 year permits
- Safety knowledge quiz for riders
- E-scooter education campaign

