



Evidence for Impacts of Shared E-Scooters



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Summary of research projects

1. Trial -Portland, Oregon
2. Safety impacts USA – 2 studies
3. Lisbon Review
4. Paris, Lyon and Marseille Review
5. Potential Growth - Inrix



LimeBike

voi.

dott



comouk 
supporting shared transport

Study 1 Portland, Oregon

- 70,000 trips
- Trips - 1mile
- 71% used for transport
- 34% car /taxi replacement (48% visitors)
- Attracted non cyclists



Study 1 Portland, Oregon

- 62% of Portlanders positive views
- User prefer cycle paths
- Pavement conflict
- Injuries <1% of trips, less than bikes /some serious
- Extending pilot

Colliding Mode	Total Visits
None/fall	146
Car	22
Truck	2
Pedestrian (Scooter user injured after colliding with a pedestrian)	3
Scooter (Pedestrian injured after being hit by a scooter user)	2
Scooter (Scooter user injured after colliding with another scooter)	1
Total	176

Study 2: Safety impacts USA – UCLA

- 249 patients
- 4% wearing helmet



Fall	183 (80%)
Collision with object	25 (11%)
Hit by vehicle	20 (9%)
Brought in by ambulance	81 (33%)

Study 2: Safety impacts USA –UCLA

Injury Characteristics	Number (%)
Any fracture	79 (32%)
Forearm/Wrist/Hand	31 (13%)
Upper Arm/Shoulder	17 (7%)
Face	14 (6%)
Knee/Lower Leg/Ankle/Foot	11 (4%)
Head injury	100 (40%)
Intracranial hemorrhage	5 (2%)
Lacerations	71 (28%)
Contusions, sprains	69 (28%)
Major intra-abdominal or intrathoracic injuries	3 (1%)



Study 2b: Safety impacts USA – Austin

- 196 injuries
- 42% serious injuries
- 1/3 injured on first trip
- 1/3 visitors to the area
- 37% said speed contributing factor
- 50% road conditions contributed
- Rate 20/100,000 trips
- 2 per day



Study 2c: Safety impacts USA Policy review - Remix

- Protected resurfaced lanes
- Larger wheels
- Speed limits
- No go / slow zones
- Helmets – education & incentives beats law
- Training



Remix

Study 3 Lisbon

- 57% user are commuting
- 27% use for leisure trips
- 9% utility trips



Polisnetwork.eu / Lime

Study 4 – Paris, Lyon and Marseille

- 13 operators
- Gender split : 66% men
- High income users /price concerns
- 42% -tourists or visitors
- 7% ride every day
- 33% once a week
- 39% at weekend
- 10% 2 riders!



Polisnetwork.eu / 6T

Study 4 – How would trips have been made otherwise?

How would trips have been made otherwise?

- 47% on foot
- 29% by PT
- 9% by bike
- 8% by car.
- 23% of the riders, in connection with public transport (66%)
- 44% used it one way



<https://shared-micromobility.com/who-are-you-e-scooter-rider/>

Study 5 – Potential Growth

INRIX Research found that shared bikes and scooters could replace nearly:

- 50% in the U.S.
- 70% in the U.K.
- 60% in Germany

of short-distance (0-3 miles) in vehicle trips



References

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12-13th November 2019
Library of Birmingham

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