

Micromobility Services

Micromobility (e.g., bikes and scooters), defined as any small, low-speed, human- or electric-powered transportation device, is rapidly proliferating in cities nationwide, providing popular transportation options for many users.¹

Micromobility System Statistics (based on 2021 data)²

69

Docked
bikeshare systems

42

Dockless
bikeshare systems

35

Cities served by dockless
bikeshare systems

281

E-scooter
systems

136

Cities served by
e-scooter systems

The featured benefits, costs, and lessons learned are based on ITS project evaluations contained in the ITS Databases at: www.itsknowledgeresources.its.dot.gov. **Click on each example to learn more.**

Bikes

E-Bikes



Benefit Analysis in D.C.

A modeling analysis of Washington DC's Capital Bikeshare system found that the presence of bikeshare stations is associated with higher Metro-rail ridership.

Cost Analysis in Iowa

A 300-bike share system in Des Moines incurred an estimated capital cost of \$2,400,000 and an estimated annual operating cost of \$600,000.

Benefit Analysis in California

A Shared Mobility Pilot Program in Santa Monica found that of the nearly 2.7 million rides taken by e-scooters and bikes from October 2018 through September 2019, about half were estimated to displace automobile trips according to user surveys.

Cost Analysis in Oregon

The Portland Bureau of Transportation spent a total of \$287,282 on a 2018 shared dockless e-scooter pilot program, with 75% of the costs recovered by program and permit fees by the end of the 4-month pilot.

Benefit Analysis in Illinois

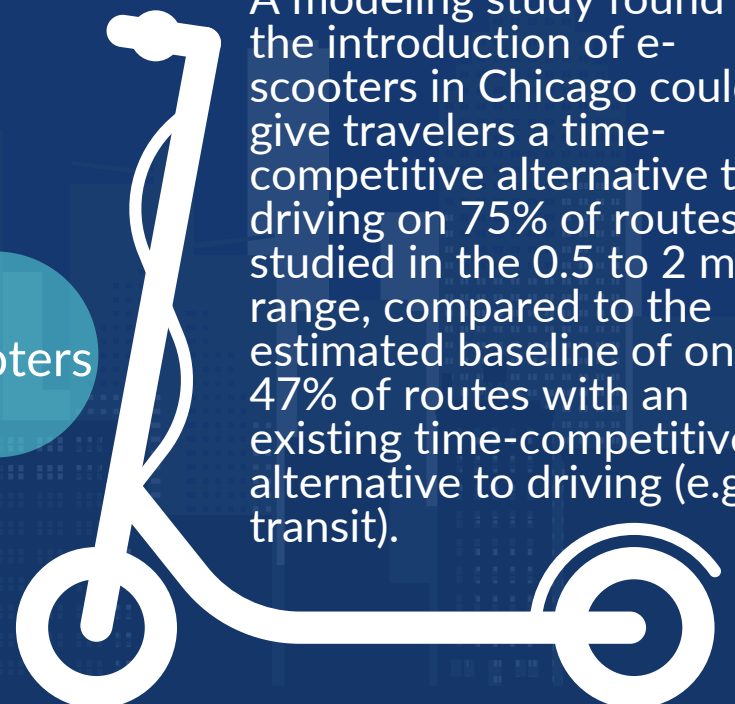
A modeling study found that the introduction of e-scooters in Chicago could give travelers a time-competitive alternative to driving on 75% of routes studied in the 0.5 to 2 mile range, compared to the estimated baseline of only 47% of routes with an existing time-competitive alternative to driving (e.g., transit).

Benefit Analysis in Oregon

Portland's e-scooter pilot reduced vehicle miles traveled by 300,000 over 120 days.

Scooters

E-Scooters



Lessons Learned
Examples (Click on each)

CA

IL

OR

1. FHWA, [Micromobility: Emergence of New Transportation Modes](#)

2. USDOT Bureau of Transportation Statistics, [Bikeshare and E-scooter Systems in the U.S.](#)