



Oregon State
University

COLLEGE OF ENGINEERING

School of Civil and
Construction Engineering

Micro-Mobility

Kate Hunter-Zaworski

March 10, 2020



OUTLINE

Overview

Definitions

Devices

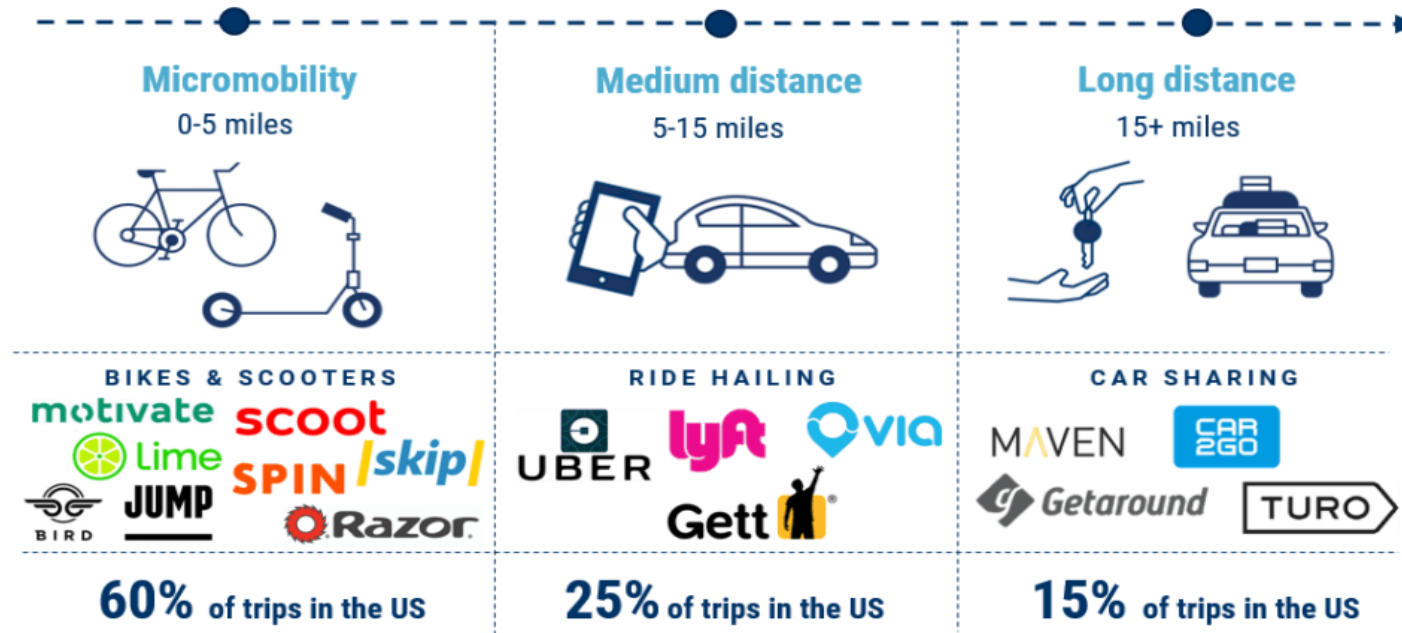
Data

Responsibility



DISRUPTING THE CAR

Alternatives to car ownership by trip length



Source: NHTS

CBINSIGHTS



Definitions

Micromobility :

Small devices: e-scooters and e- bikes

short distance less than 2 miles

Provide first and last mile to public transportation

Owned or short term rental

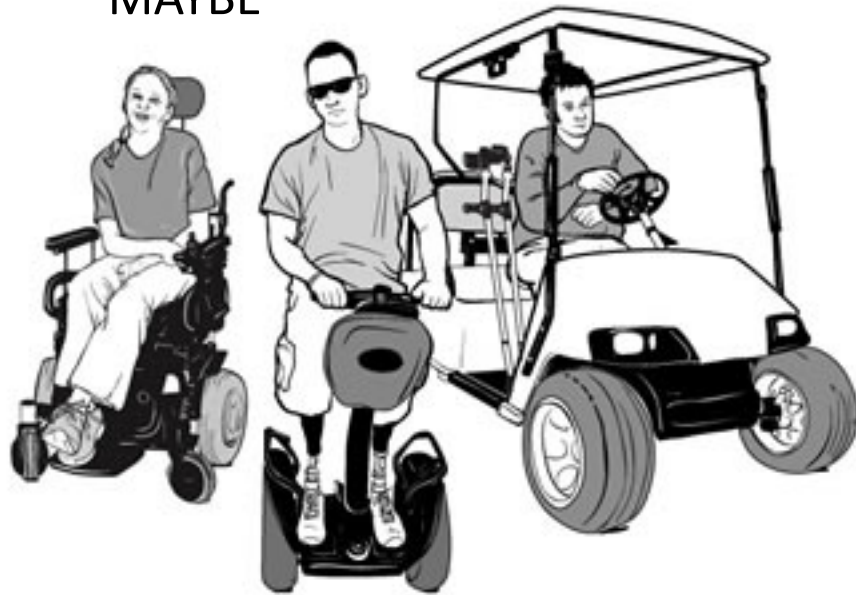


Devices

OR

NOT or MAYBE

MAYBE





Other Devices

Electric Skateboard



One Wheel Electric Scooter





DATA

- Slowing getting data on use rates
- Accident data –difficult to find
- Limited commercial or operational data



Responsibility

- Dock or dockless
- Operational location
 - Right of way
 - How should this be defined: operating speed, weight of device
 - Regulations
 - Who
 - What





From Experience

- Light Electric Vehicles (regulated at state level)
 - Safety
 - Operating speed
 - Operating environment
 - Operator permitting
 - Occupant Protection

