

Inclusive Shared Mobility

Shared Mobility Inc.

Buffalo, NY

Shared Mobility 2009

- Uber/Lyft did not exist
- First full bikeshare system launches in Montreal
- ZipCar, other major carshares moving towards full market penetration
- Infancy of smart mobility technology

Shared Mobility 2019

- 300+ cities with TNCs
- 120+ cities with bikesharing
- 400+ cities and colleges with carsharing
- Development of new fleet and driver management technology
- Broad Public Awareness



What We Studied

Research Question: How can shared mobility better serve older adults and people with disabilities?

- Funded by the National Aging and Disability Transportation Center
- Focus on Modes:
 - Ridehailing
 - Bikesharing
 - Carsharing
 - Volunteer Transportation



Changing the Landscape

- 12% decline in local transit use over 5 years in Buffalo-Niagara
- Riders only cover about 4% of paratransit cost
- 21% of people w/disabilities live below the poverty line
- Growing need to use shared mobility to access basic services
- General lack of inclusivity in shared systems. Good examples are “buried”



Barriers to Access

- Physical
- Economic
- Geographic
- Operational



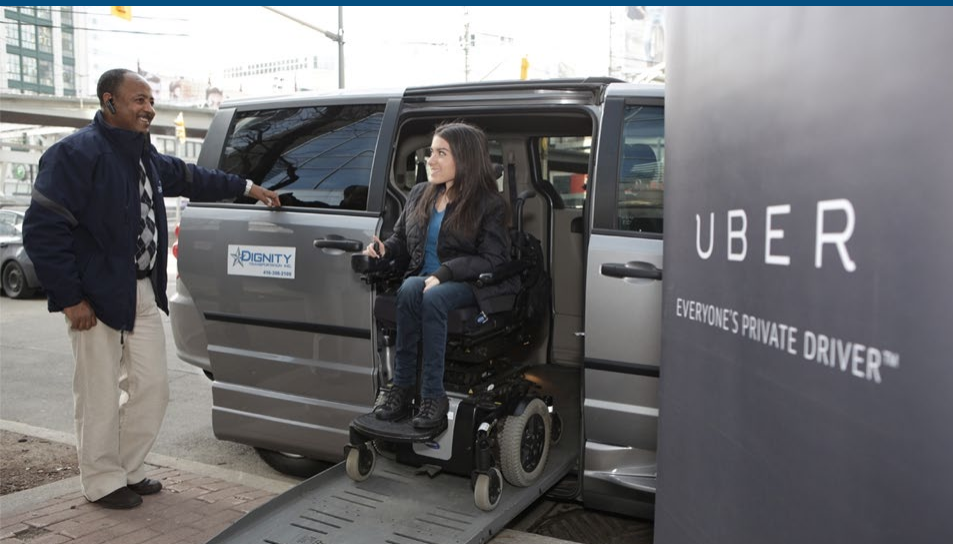
Bikesharing



Carsharing



Ridehailing



Volunteer Transportation as DRT

- Hypothesis: Viable as DRT with smart technology integration
- Using volunteer drivers keeps costs down significantly
- Our target: 80 cents/mile at peak efficiency
 - Better than Uber, taxis, and paratransit, while passing along 85% of income to drivers
- Upstate NY operations (Volunteer Transportation Center):
 - 250 active volunteers
 - 150,000 trips
 - 5 million passenger miles
 - Millions saved annually in Medicaid transportation costs



Implementation

- Partnership with the Volunteer Transportation Center and Mobility Development to pilot expansion to two markets
 - Volunteer Transportation Buffalo
 - Western NY state (Buffalo and Rochester area)
 - Valley FLEX
 - San Joaquin Valley, California (Modesto area)
- Q3 2019 Implementation
- Pilot support from NADTC and California Air Resources Board



Mobility Development

