

# Casualty Loss Reserve Seminar Discussion of Smart Mobility

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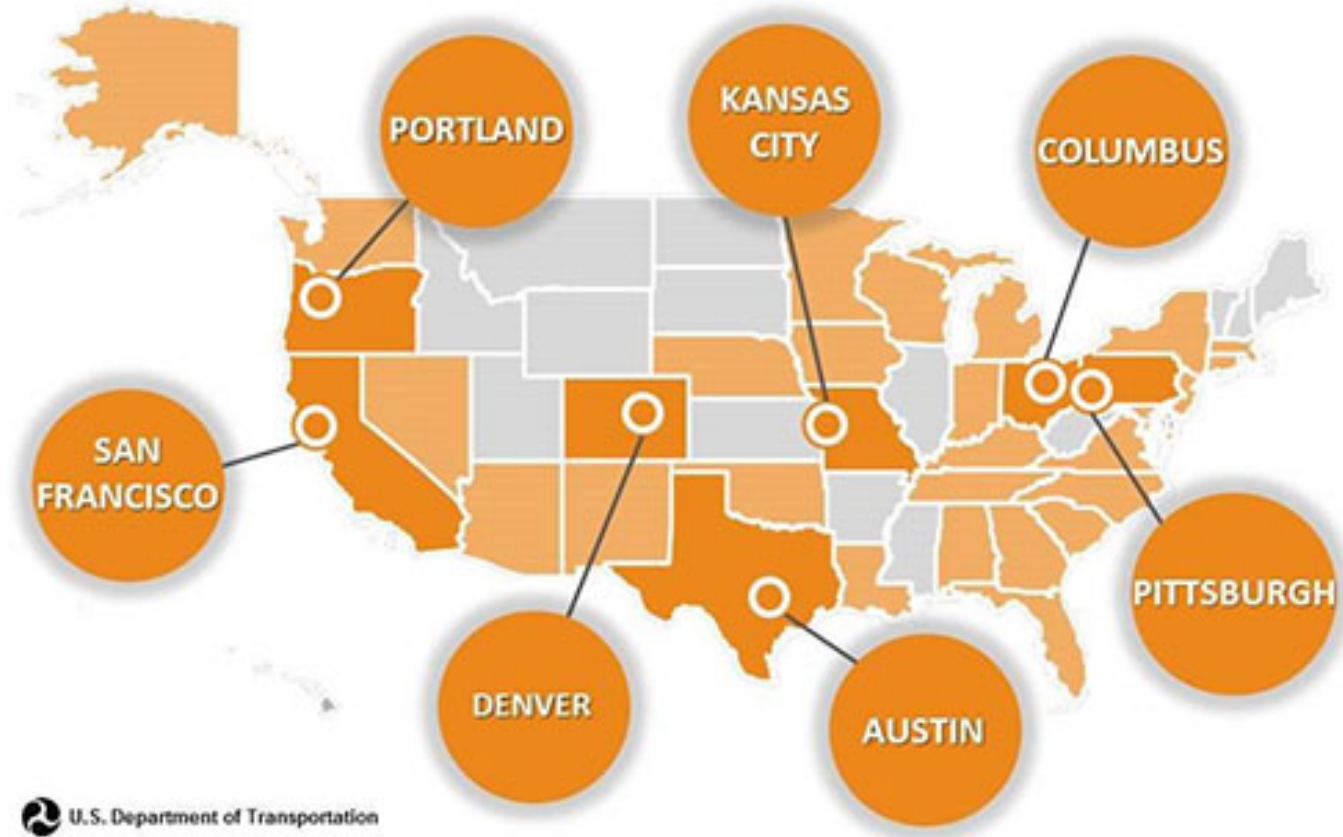
# SMART MOBILITY

Smart Mobility involves deploying new technology to move people and goods through our city in faster, safer, cleaner, more affordable and more equitable ways.



# Smart City Challenge

## Smart City Challenge Finalists





SMART  
MOBILITY

# Smart Mobility Roadmap

- Shared-Use Mobility
- Data & Technology
- Electric Vehicles & Infrastructure
- Land Use & Infrastructure
- Connected & Automated Vehicles



# Shared Micromobility:

- In April 2018 e-scooters first appeared in Austin
- Eight current operators: Bird, JUMP, Lime, Lyft, Ojo, Skip, Spin, and Veo Ride
- [Dockless Data Explorer](#)
- [Dockless Summary Dashboard](#)
- Report issues to Austin 3-1-1.





# DOCKLESS ELECTRIC SCOOTER-RELATED INJURIES STUDY



AUSTIN, TEXAS

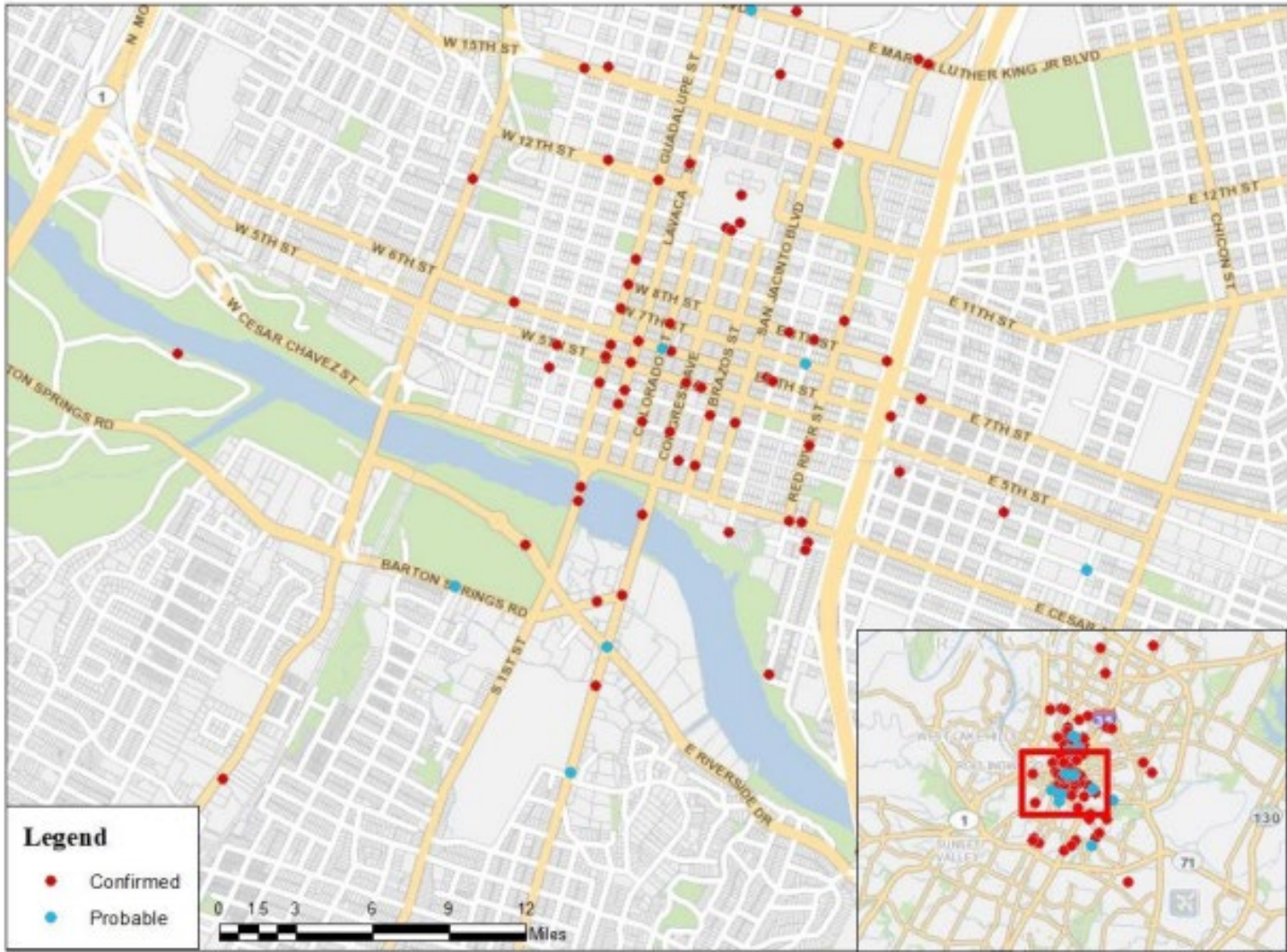
SEPTEMBER - NOVEMBER 2018

Center for Disease Control, worked with the Austin Public Health & Austin Transportation Department to conduct a Epidemiology Study

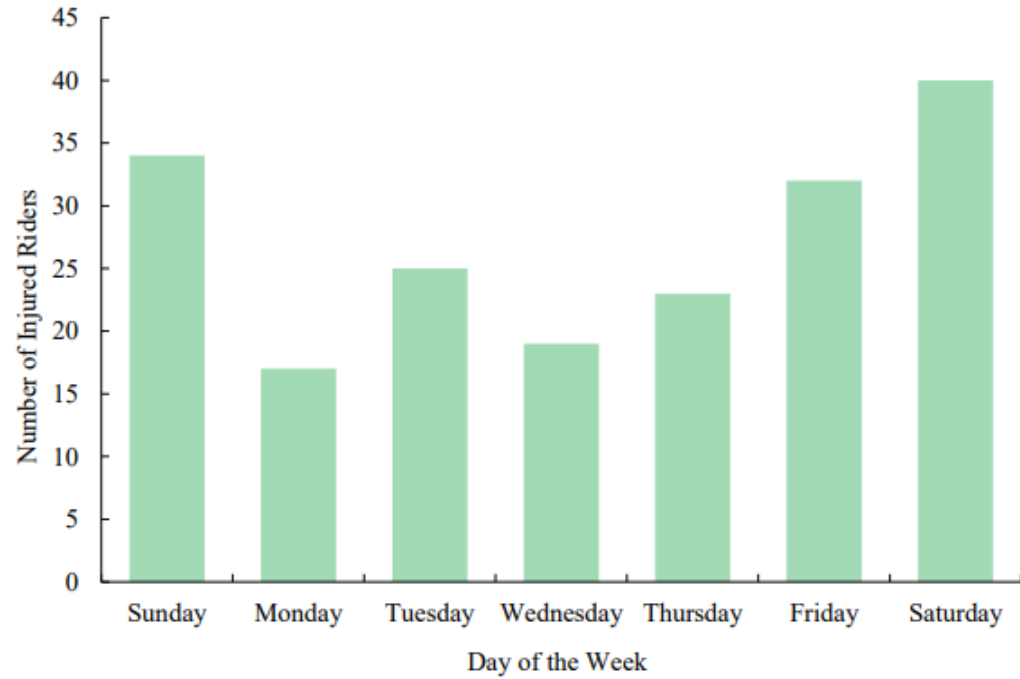


Figure 5. Map of Locations of Scooter-Related Injury Incidents

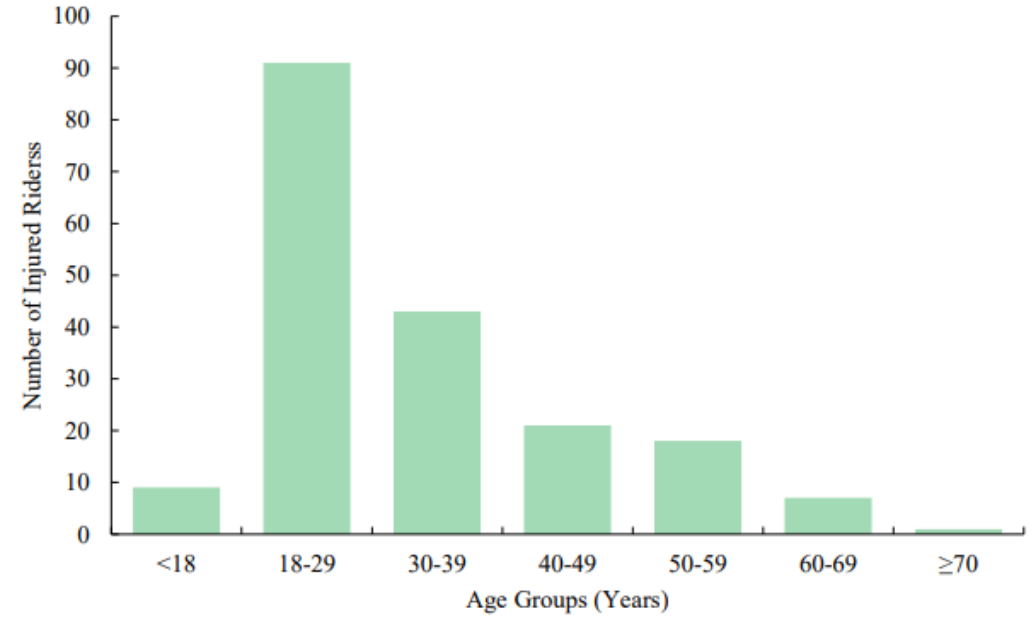
Locations



**Figure 7. Number of Injured Riders by Day of the Week of Injury Occurrence**



**Figure 2. Number of Injured Riders by Age Group (Years)**



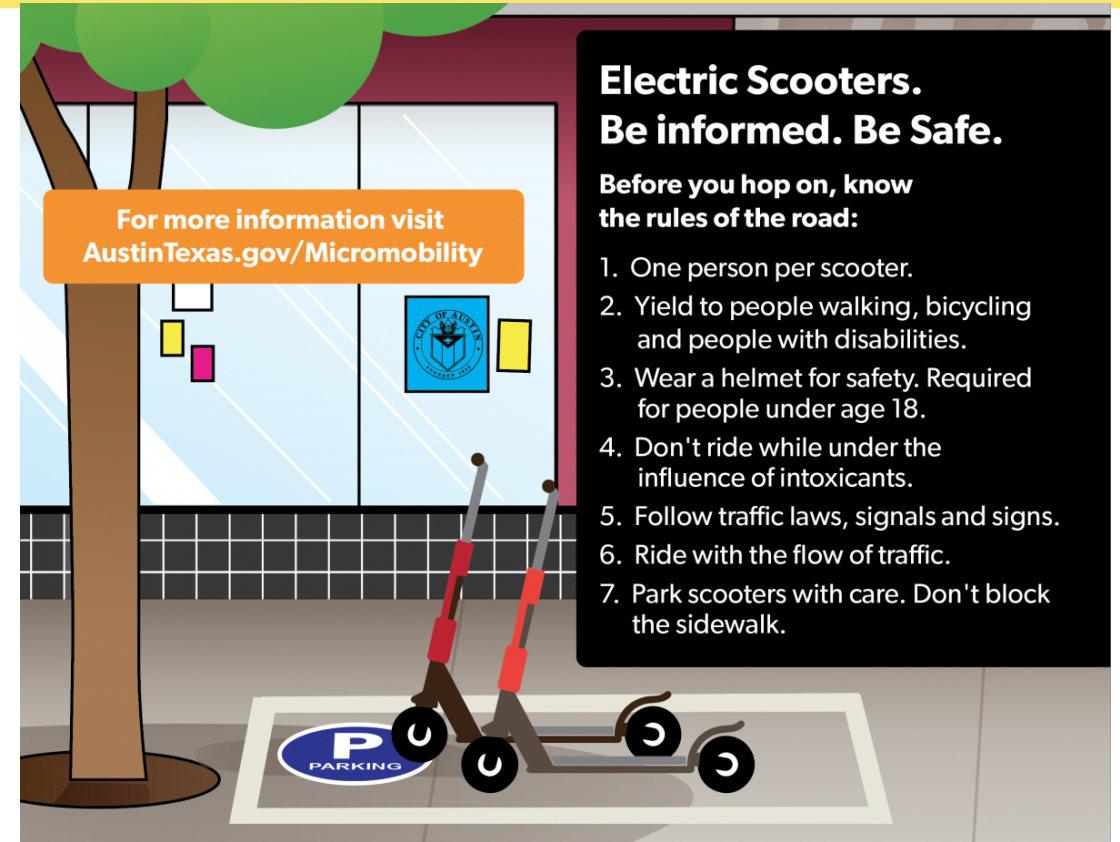
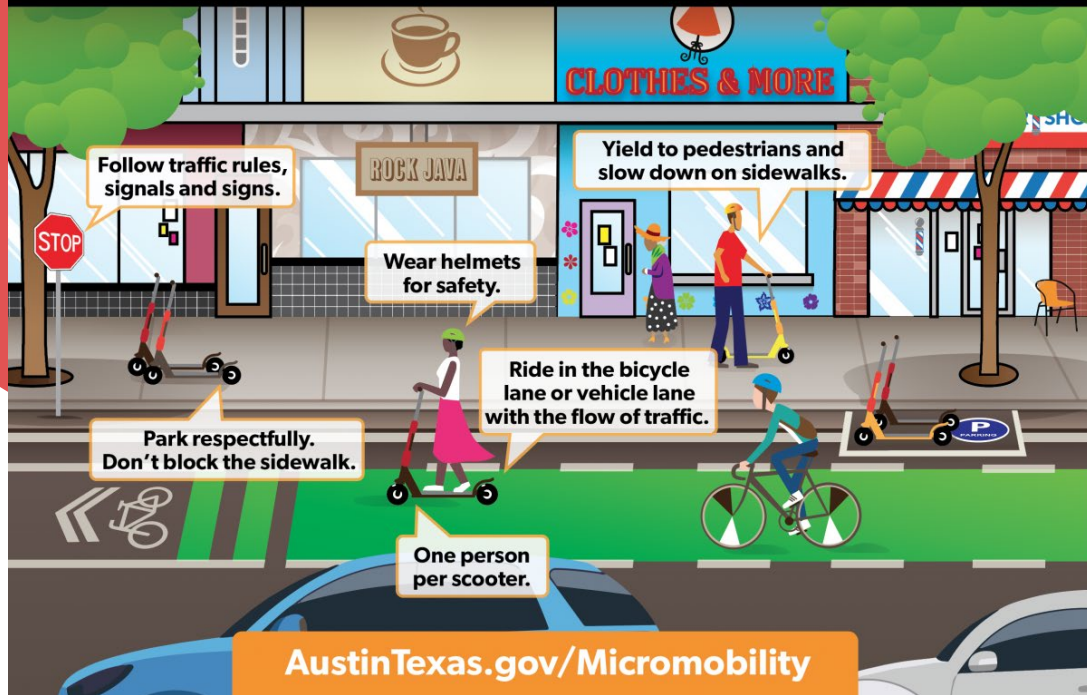
Data Gathered



# Education & Policy

## Micromobility Laws and Safety

### How Austin E-Scoots



## Technical Approach

**Safety** - guidance, lessons learned, and reference implementation documentation of the planning, engineering, testing, and operations of ADS demonstrations in geographically and technically diverse environs.

**Data** - measurable outcomes through rigorous evaluation that level-set artifacts of anecdotal accounts of ADS safety within the marketplace; analyze the risks, opportunities and insights relevant for future rulemaking; and demonstrate innovative scalable systems architectures that are open and decentralized with the highest capabilities of securing data, by providing a digital commons approach to data.

**Collaboration and Scaling** - commitment to openly develop and share the intellectual property delivered as part of this project, including an additional five years of data sharing and collaboration on the Open Data Commons. Accelerate collaboration and scaling of best practices and reference implementations through the multi-city USDOT ADS City Cohort.

# Transport People

## TRANSPORT PEOPLE

- ⚙️ Uber, GM/Lyft, nuTonomy
- 🚗 4
- 📏 4,000-6,000 lbs
- 👤 4-6 passengers
- 🚦 25-35 mph
- 📍 Pittsburgh, San Francisco, Singapore

- ⚙️ Navya, Local Motors, Easymile, Auro Robotics
- 🚗 4
- 📏 6,000-8,000 lbs
- 👤 10-12 passengers
- 🚦 25-35 mph
- 📍 Lyons, Helsinki, Washington D.C.

### Autovot/Taxibot

- ✅ Has been tested in Austin



**Autovot:** AV taxi providing sequential private rides  
**Taxibot:** AV taxi shared simultaneously by several passengers

### Driverless Shuttle

- ✅ Has been tested in Austin



Automated minibus for carrying groups of people over short distances, usually on pre-mapped routes

Starship Technologies

- 6
- 40-55 lbs
- 0 passengers
- 4 mph
- Talinn, London, Bern, Redwood City, CA, Washington D.C.

Otto (Volvo), Scania

- 18
- 33,000 lbs
- 44,000 lbs cargo
- 55 mph
- Colorado, Rotterdam, EU (various)

Deliverybot

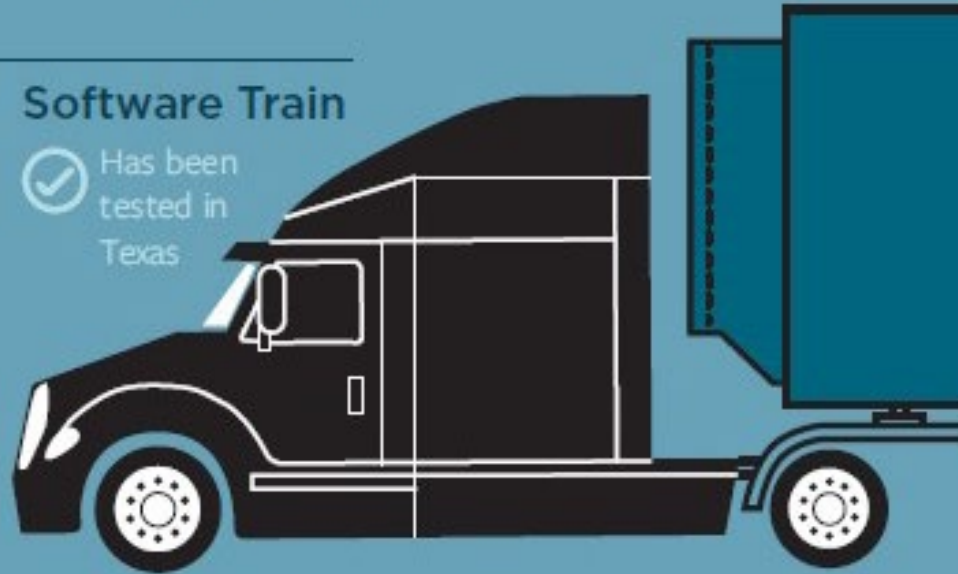
- Has been tested in Austin



AV cart providing last-mile light goods distribution

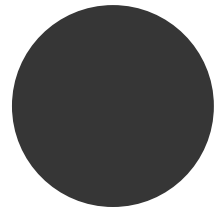
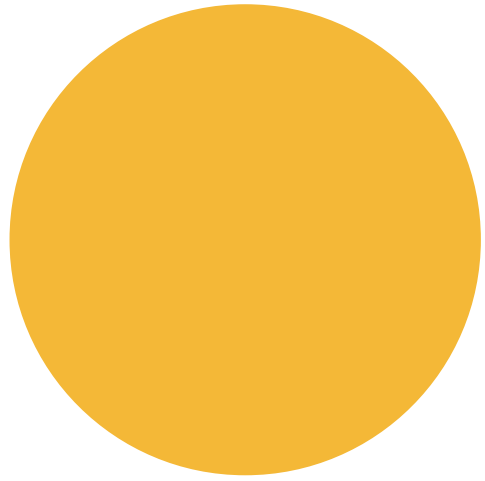
Software Train

- Has been tested in Texas



Single or platooned tractor-trailer providing long-haul freight transport

# Transport Freight



Thank you

