Understanding & Tackling Micromobility: Transportation's New Disruptor

Lifesavers 2021

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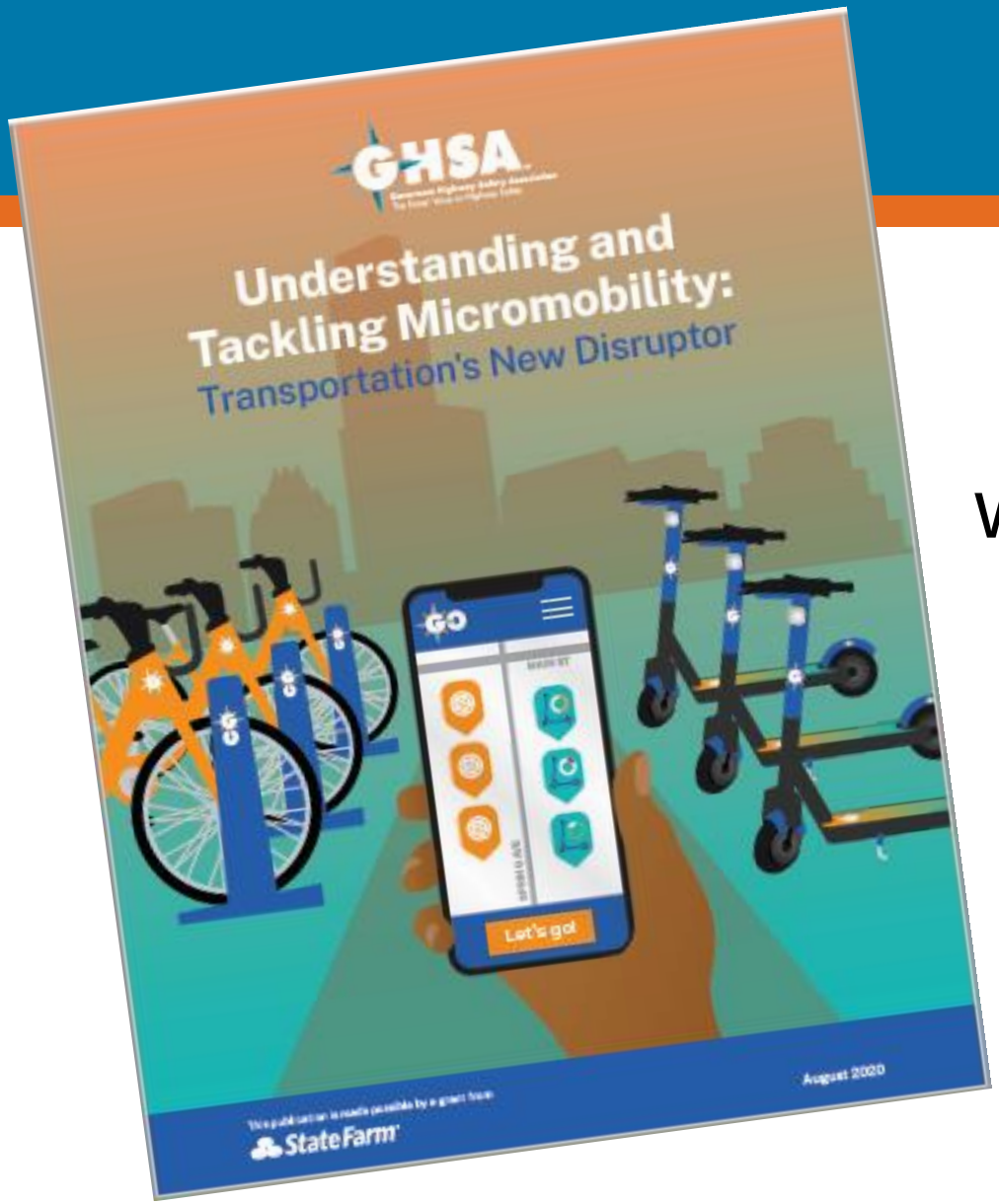
GHSA
Understanding and Tackling Micromobility:
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August 2020
State Farm

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Micromobility

TYPES OF POWERED MICROMOBILITY VEHICLES[1]

	Powered Bicycle	Powered Standing Scooter	Powered Seated Scooter	Powered Self-Balancing Board	Powered Non-Self-Balancing Board	Powered Skates
						
Center column	Y	Y	Y	Possible	N	N
Seat	Y	N	Y	N	N	N
Operable pedals	Y	N	N	N	N	N
Floorboard / foot pegs	Possible	Y	Y	Y	Y	Y
Self-balancing[2]	N	N	N	Y	N	Possible

[1]All vehicles typically designed for one person, except for those specifically designed to accommodate additional passenger(s)
[2]Self-balancing refers to dynamic stabilization achieved via a combination of sensors and gyroscopes contained in/on the vehicle

Source: Society of Automotive Engineers

Micromobility

Micromobility Ridership

2010 2011 2012 2013 2014 2015 2016 2017 2018 2019

2010

Since 2010, there have been **207 million** trips on shared bikes (pedal and electric-powered) and e-scooters in the United States.

2019

There were **135 million** trips in 2019 alone, including 40 million on station-based bike share, 10 million on dockless bikes, and 86 million on e-scooters.

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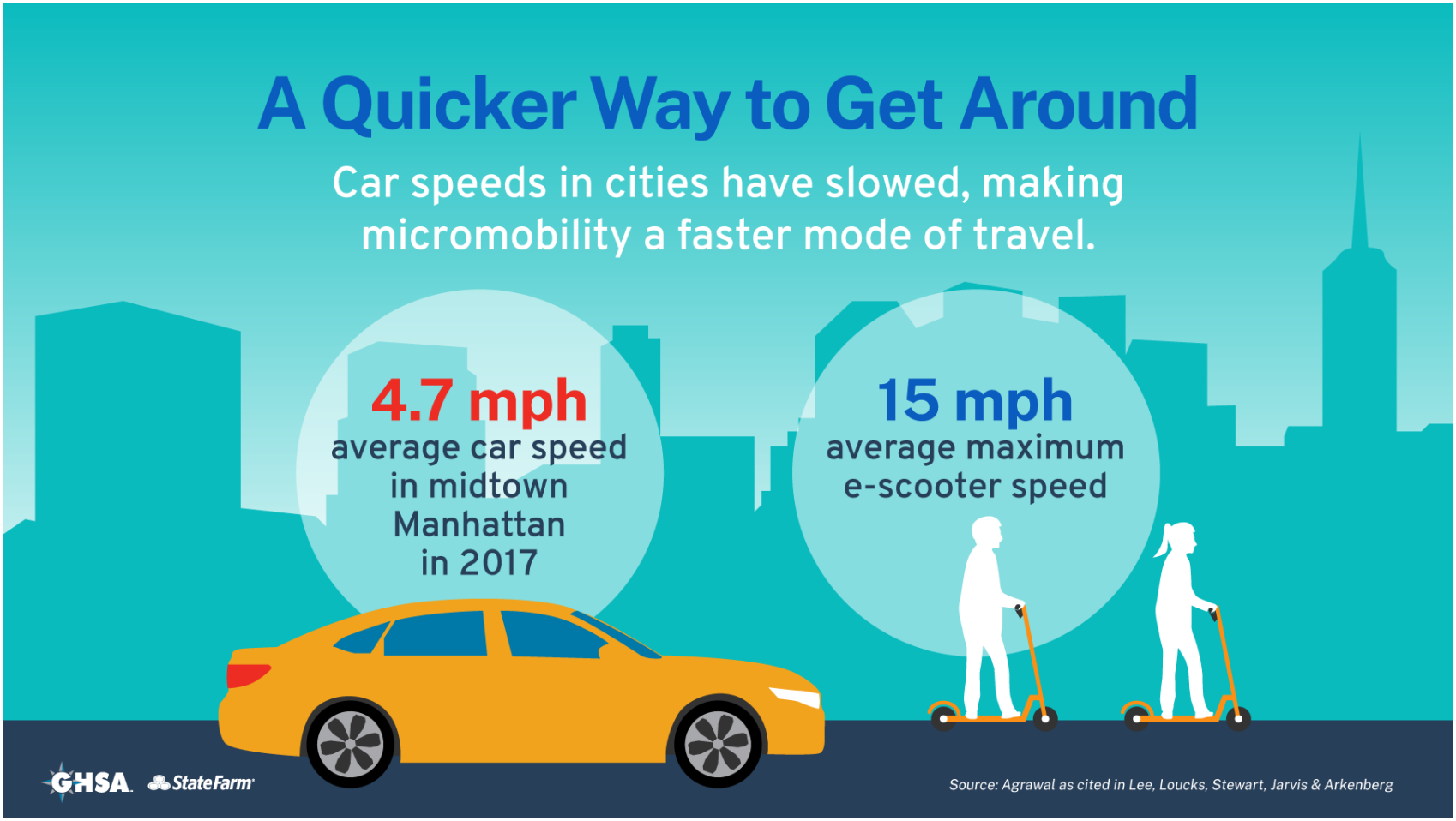
Source: NACTO

GHSA Governors Highway Safety Association The States' Voice on Highway Safety

Micromobility



Micromobility

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Micromobility Fatalities

E-bikes

4 fatalities

associated with bike share programs since 2007

E-scooters

22 fatalities

with all but three involving motor vehicles since 2018

90% of micromobility fatalities are the result of a collision between a personal transportation device and motor vehicle.

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Sources: NACTO, K. Harmon

Challenges

- Consistent statutes/regulations
- Dedicated funding
- Universal reporting standard
- Separate infrastructure
- Law enforcement training
- Education for all road users

Panelists

- Annie Chang, Director of Safety Programs, Lime
- Katie Harmon, Research Associate, UNC Traffic Safety Research Center
- Melissa McMahon, Transportation Research & Site Plan Development, Arlington County (VA)
- Eric Miesse, Commander, Austin (TX) Police Department

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