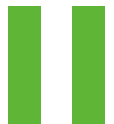




# E-Scooters and Greater DSM

August 1, 2019







# E-Scooters in DSM

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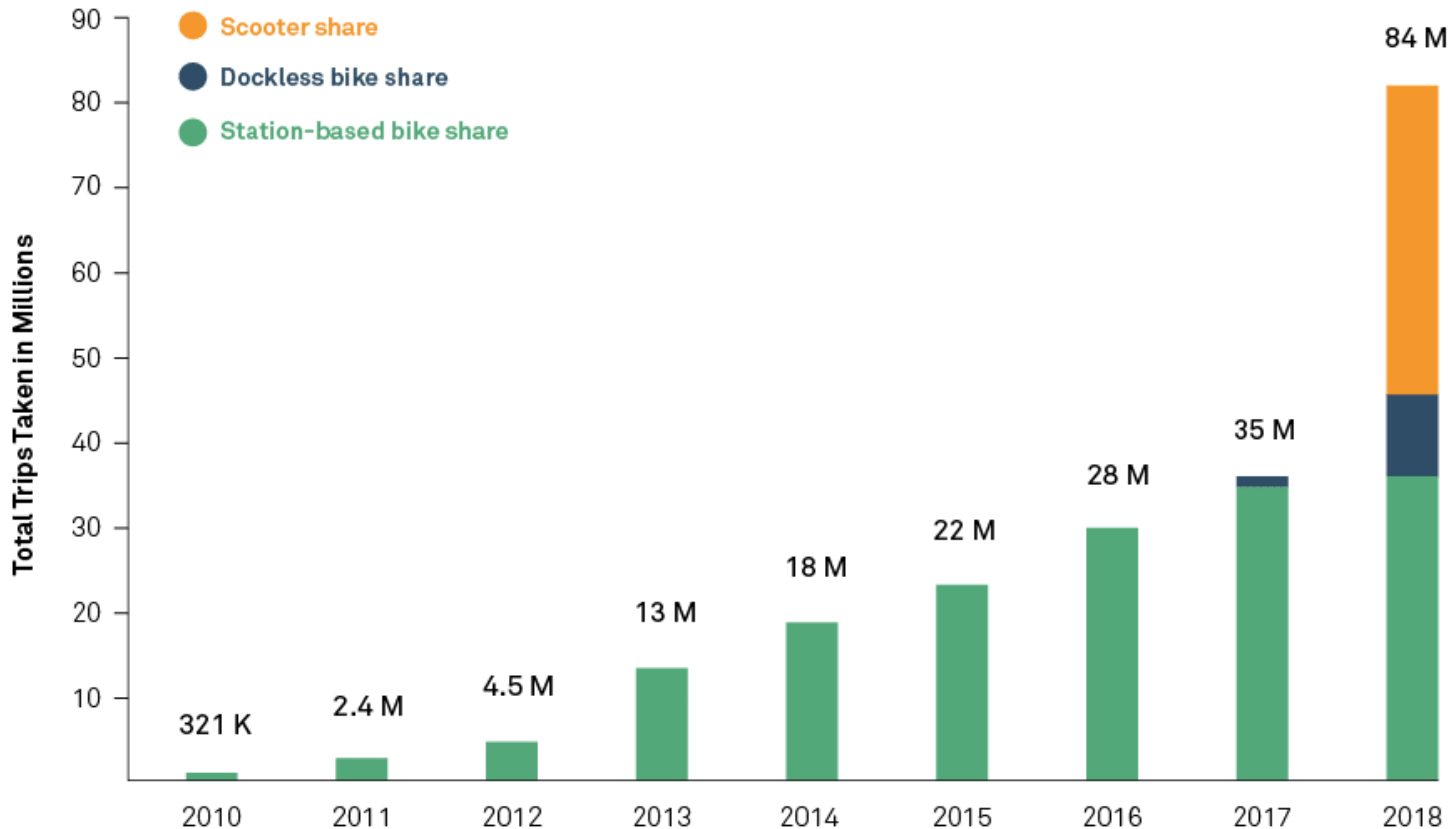
- Understanding E-Scooters
  - Role of scooters
  - Benefits and Risks
- Experiences in Other Cities
- Current State in DSM
- What Comes Next?

# Role of Scooters

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- Micromobility
  - Short trips
  - Lightweight vehicles (electric and analog)
  - Hardware agnostic
- Tourism
- Utility
  - Park once
  - Dense areas
- Fun

# 84 Million Trips on Shared Micromobility in 2018

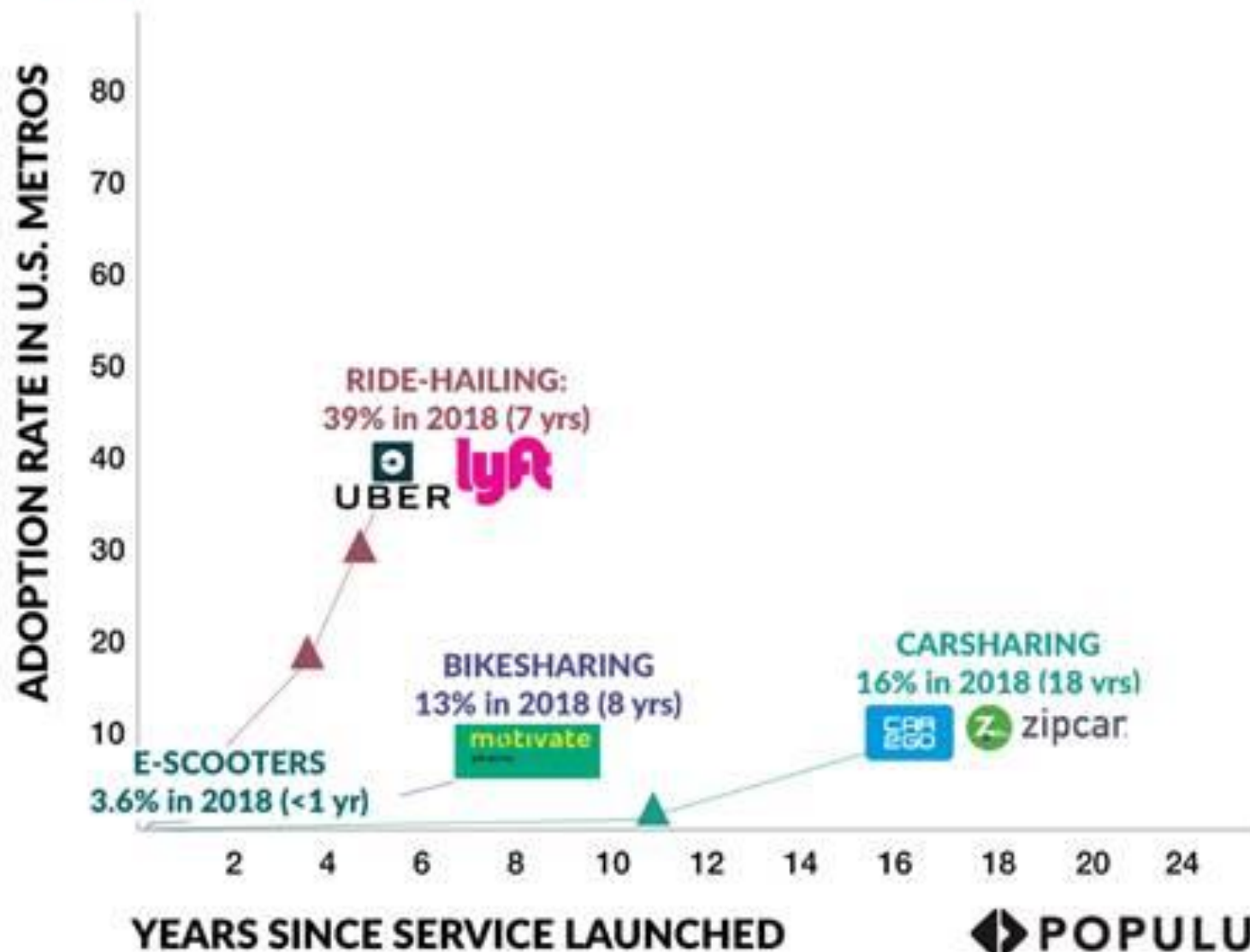


Source: NACTO





# MOBILITY SERVICE ADOPTION IS SPREADING FASTER



Sources: Populus Groundtruth; Clewlow & Mishra, 2017; Clewlow, 2016



# Benefits

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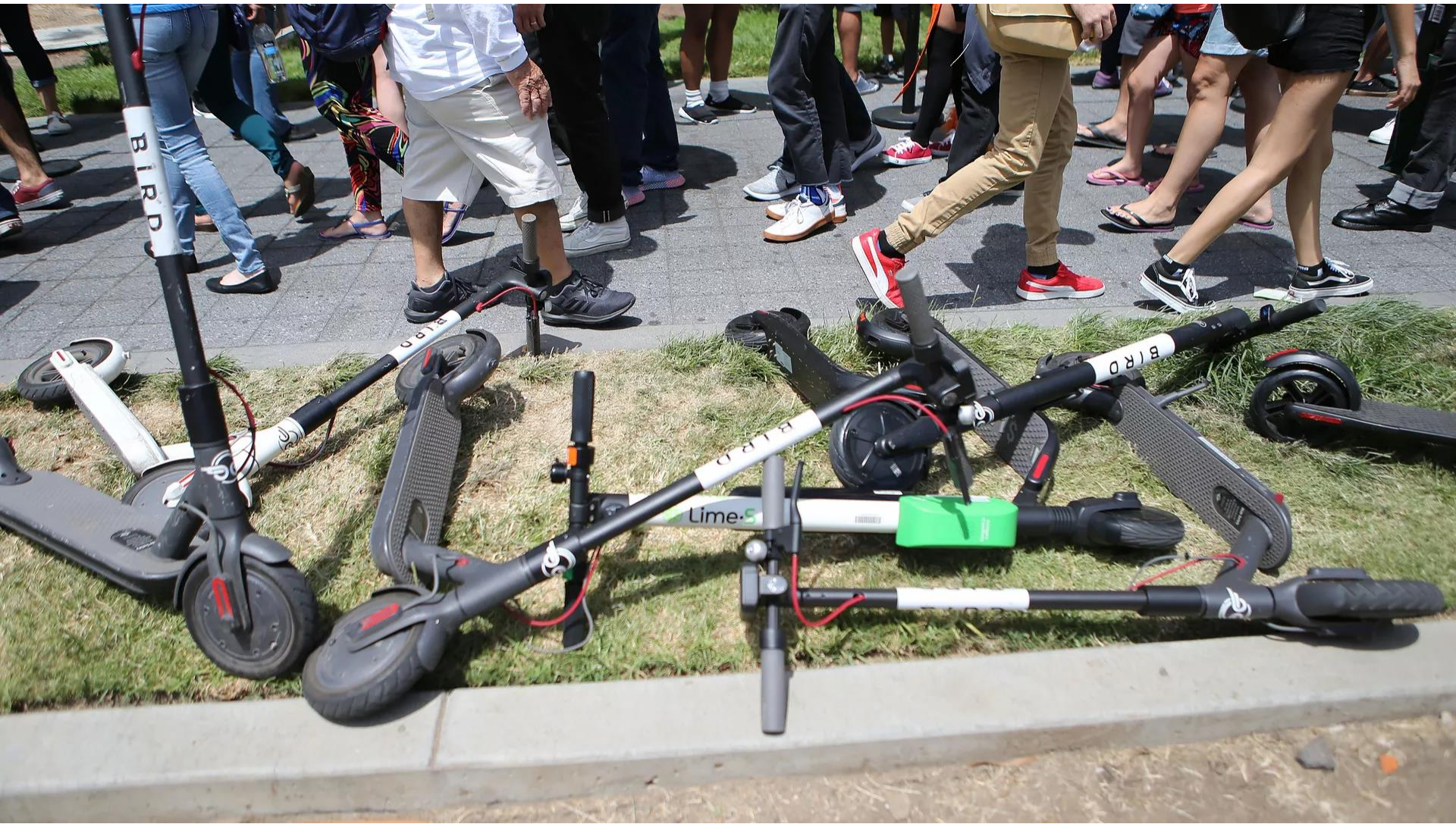
- Reduced car trips and congestion
- More active, vibrant areas
- More transportation options
- Expands active transportation audience
- Highlights need for safer facilities



# Risks and Concerns

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- Safety
  - ER visits for falls and crashes
- Accessibility
- Venture capital
- Obsolescence
- Compliance and behavior
- Education and communication



# What Can Be Done

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- Regulations and RFP
- City ordinances
- Geofencing
- Photo reference
- Data specifications
- Communications and education

# Safety

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- Speed limiters
- Tracking through software
  - speed changes, upright, location
- Education and events



# Accessibility

- Planning, monitoring and evaluation
- Parking and sidewalk riding rules
- Commercial partnerships and communication



# Compliance

- Photo integration
- RFP language, actions and consequences
- Customer service and complaint response system
- Partnerships





# Case Studies

- Portland 2018
- Omaha 2019
- Kansas City 2019
- Chicago 2019



# Portland - 2018

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- 120 day pilot
- 3 vendors
- Ramping scooter caps from 100 to 600+
- 15 mph speed limit
- State law requires helmets
- Prohibited on trails in parks

# Results

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- 700,000+ trips for 800,000+ miles during pilot
- 62% of Portlanders viewed scooters positively after pilot
- E-scooters replaced personal car and ride-hailing trips.
  - Higher numbers amongst tourists (48%)
- Company compliance with permits generally good
- Rider compliance high on streets with slow moving traffic and/or bike facilities
- E-scooters replaced active transportation trips. 42% would have walked or biked
- Sidewalk riding reduced pedestrian comfort
- Created challenges for Parks staff and visitors as riders did not know e-scooters not allowed in parks
- 73% parking compliance

# DSM Experience

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- Stayed out of past waves
  - dockless bike share
  - e-scooter dump and dash
- State legislative discussion
- Vendor inquiries
- P+Z pre-apps

# What's Next

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- Fair-weather pilot
  - Vendor/scooter caps
  - RFP and regulations
  - Assess and evaluate
- Community discussion
- Regional consistency and education

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**MIKE ARMSTRONG**