

# MICROMOBILITY IN NORTH CAROLINA



Integrated Mobility Division  
N.C. DEPARTMENT OF TRANSPORTATION



## What is Micromobility?

Micromobility is any small, low speed transportation device that is fully or partially human-powered or electric-powered, including bicycles, electric-assist bicycles (e-bikes), scooters, electric scooters (e-scooters), and other small, lightweight wheeled conveyances. Micromobility devices may be privately owned or deployed by vendors such as scooter share or bikeshare systems.

### Micromobility devices



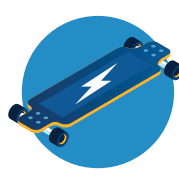
Bikes



E-bikes



E-scooters



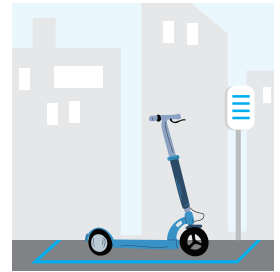
E-skateboards & other emerging new devices

### Types of micromobility systems



#### Docked

Systems have permanent stations where devices must be picked up or dropped off.



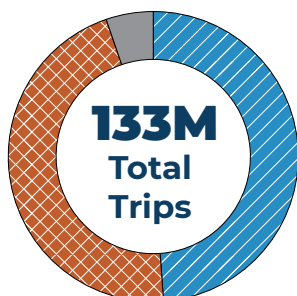
#### Dockless

Devices do not need to be locked to a permanent fixture, however, they may need to be parked within a defined area.



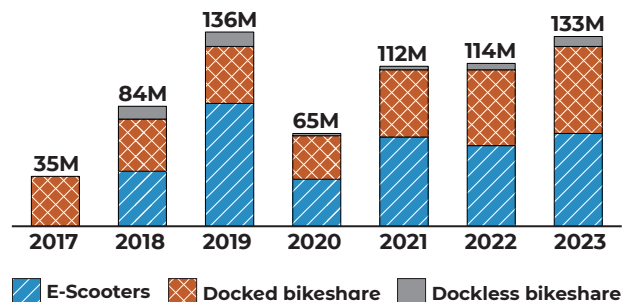
\*This map displays communities and/or universities in North Carolina with a micromobility system based on a combination of a statewide survey and the Bureau of Transportation Statistics.

## Micromobility systems across North Carolina 2023\*



### National Ridership 2023

- E-scooter ridership  
65M trips
- Docked bikeshare ridership  
61M trips
- Dockless bikeshare ridership  
7M trips



U.S. micromobility ridership has increased by 280% from 2017 to 2023.

## What are the benefits of micromobility?

- A** Diversified Transportation Choices
- B** Improved Air Quality
- C** Business Economic Development
- D** Connections to Transit (first/last mile)
- E** Tourism
- F** Reduced Congestion

**In 2023, 63% of all trips in the U.S. were <5 miles**



## Realizing Equity Potential

Micromobility can provide transportation access to zero vehicle households, low-income households, and those living in transit dependent areas. In 2023:

- 90%** of micromobility programs offer discounts
- 67%** of micromobility systems include policies to promote equitable access in underserved communities
- 31%** of micromobility programs offer vehicles designed to assist mobility challenged users

**37%**  
of shared micromobility trips replace a car trip



In 2023 the average shared micromobility device trip was **14 minutes** and **1.4 miles**.

Data Sources: North American Bikeshare & Scootershare Association. (2024). 5th Annual Shared Micromobility State of the Industry Report: 2023; Bureau of Transportation Statistics, Trips by Distance dataset, 2023.

## How can NCDOT support micromobility planning and development?

The North Carolina Department of Transportation's Integrated Mobility Division (IMD) is a resource to support communities implementing micromobility. IMD can provide research, technical support, help with identifying and securing funding, assistance in working with vendors, and more. IMD can help communities tackle challenges such:

- Strategies for permits, payment issues, and contracts
- Designing equitable micromobility programs and systems
- Developing policies to address operating zones, parking, and safety of users and others
- Planning/design for infrastructure that supports micromobility systems

## NCDOT Resources



### Education

- Funding opportunities
- Grants support
- Materials
- Policy reviews
- Research on topics of interest
- Training



### Technical Support

- Dialogue and partnership facilitation
- Safety analysis
- Network planning
- Data standards establishment (reporting, utilization)
- Support for pilot projects and feasibility studies

For more information about micromobility in NC, please contact [Bikeped\\_transportation@ncdot.gov](mailto:Bikeped_transportation@ncdot.gov)