



## MICROMOBILITY AND E-BIKE SAFETY WORKSHOP TAKEAWAYS

September 10, 2025

### Slides and Video Recording

#### MEETING PURPOSE AND OBJECTIVE

E-bikes, e-scooters, and similar devices are increasingly popular for both recreation and commuting. More people in Palm Beach County are making use of these devices, and the number of serious injuries and fatalities related to them is rising. This workshop examined new rules and potential regulations, provided infrastructure safety and design considerations, and shared important information about these devices.

#### NEW MOBILITY VEHICLES, AND STATE AND LOCAL POLICY UPDATES

**BRIAN RUSCHER, PALM BEACH MPO** [BRUSCHER@PALMBEACHMPO.ORG](mailto:BRUSCHER@PALMBEACHMPO.ORG)

- Overview of devices that have evolved to be electric and higher speed, including e-bikes (Classes 1–3), e-scooters, e-skateboards, and e-unicycles.
- “E-motos”/mini-motos exceed e-bike limits and are not allowed on public Rights of Way (ROWs) under these Florida Statutes (F.S.).
- Florida Senate Bill 462 (2025 Session) updated F.S. 316.003, 316.20655, 316.2065, 316.2128. These statutes should be referenced for local policy development.
- Helmets are required for riders 16 years of age and under.
- Riding micromobility devices or class 1-3 e-bicycles is generally allowed in public ROWs, unless locally prohibited in designated riding locations or districts.
- Most jurisdictions have restrictions on shared (dockless) fleets and operations.
- Sidewalk bans, speed caps (often 15 mph) are limited in practice locally.
- Some municipalities have restricted devices to one rider per device, daytime use only, and place-based “slow or walk zones”.
- Some local codes duplicate F.S.
- Courtney Cannon, CTST Coordinator at FDOT District 4, highlighted micromobility research. FDOT is actively working on the matter with communities and partners. [courtney.cannon@dot.state.fl.us](mailto:courtney.cannon@dot.state.fl.us)
- Nicole Coates, Village of Wellington, highlighted enforcement for e-moto and golf cart regulations. The Village is also developing new regulations for micromobility. [nicolee@wellingtonfl.gov](mailto:nicolee@wellingtonfl.gov)

#### CRASH TRENDS AND RIDING SAFELY WITH MICROMOBILITY

**ASHLIE ARONES, HEALTHCARE DISTRICT OF PALM BEACH COUNTY** [AARONES@HCDPBC.ORG](mailto:AARONES@HCDPBC.ORG)

- The Healthcare District has a dashboard of trauma information related to crashes. The MPO will notify stakeholders of publicly available data once the Healthcare District publishes the information. The Consumer Product Safety Commission (CPSC) reports that U.S. emergency department visits tied to micromobility rose from 34k (2017) to 87.8k (2023); about 448.6k injuries over 2017–2023
- Head injuries are common without helmets; fractures to arms/wrists/collarbones are frequent.
- National Highway Traffic Safety Administration (NHTSA) evidence: helmets reduce head injuries by 48%, serious head injuries by 60%, traumatic brain injuries by 53%

#### COMMUNITY ENGAGEMENT & TRAININGS

**KATHY WALL, SAFE KIDS PALM BEACH COUNTY** [KWALL@CPSFL.ORG](mailto:KWALL@CPSFL.ORG)

- Why kids are vulnerable (vision, auditory, speed/distance judgment, low supervision).
- Programs: Walk & Bike to School, helmet fittings, law-enforcement/school partnerships, youth ambassadors, social campaigns (“Stop, Look, Listen,” “No Helmet, No Ride”).
- ABC Quick Check (Air, Brakes, Chain) and nighttime lighting: front and rear lights + reflectors.
- Save the date: National Walk & Roll to School Day — Oct 8, 2025.
- Wear helmet + pads; maintain equipment; stay off phones; ride predictably; use hand signals.
- Helmet programs should consider e-bike/e-scooters, youth outreach, and event kits for fittings.

## POLICY AND PARTNERSHIP TAKEAWAYS

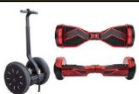
**DESIGNING FOR MICROMOBILITY | DEWAYNE CARVER, KITTELSON & ASSOCIATES**  
[DCARVER@KITTELSON.COM](mailto:DCARVER@KITTELSON.COM); **NATHAN GEORGE, PALM BEACH MPO**  
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- Design considerations for e-bikes and micromobility are like traditional bikes, with added focus on higher speeds and weight.
- Designers should account for different-sized e-bikes, cargo bikes, trikes, and other larger formats.
- Updated design standards and guidelines from American Association of State Highway Transportation Officials (AASHTO) and National Association of City Transportation Officials (NACTO) now include e-bike and micromobility considerations.
- Design criteria follow bike conventions but adjust for larger vehicle dimensions, and increased top speeds of 20–28 mph, increased weight from motors and batteries
- Integrated lighting is a safety benefit of micromobility vehicles.
- Where people ride matters – create a dedicated space separate from fast cars or people walking.
- Dedicated bicycle and micromobility facilities are preferred where micromobility speeds will be high and pedestrian mixing is undesirable.
- Shared-use paths may be suitable in low-speed, urban, or low-pedestrian areas.
- Education, Encouragement, and Enforcement are key to improving safety and compliance. Use evaluation to monitor and engineering to respond to design needs proactively.
- Helmet safety is an opportunity to raise awareness, especially around the Dutch NTA 8776 standard, which rates helmets for speeds up to 28 mph.

## HELPFUL RESOURCES

- Palm Beach MPO Crash Dashboard: [PalmBeachMPO.com/CrashDashboard](https://PalmBeachMPO.com/CrashDashboard)
- Consumer Product Safety Commission Micromobility hub: [CPSC Website](https://CPSC.gov/Micromobility)
- NE FL Community Traffic Safety Team Micromobility links: [TrafficSafetyTeam.org/Micromobility](https://TrafficSafetyTeam.org/Micromobility)

## Know the Difference: Electric Bicycles & More

| Category                          | Segway/Hoverboard                                                                                      | Motorized Scooter*                                                                    | Class 1** E-Bike                                                                                  | Class 2** E-Bike                                                                              | Class 3** E-Bike                                                                                  |
|-----------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Photo                             |                     |    |                |           |              |
| Description:                      | Designed for one person. Self-balancing, two non-tandem wheels.                                        | Designed for one person. With or without a seat or saddle; no more than three wheels. | Bike with electric motor that only engages while the rider is pedaling (pedal-assist or pedelec). | Bike with electric motor that can be engaged at any time, with or without the rider pedaling. | Bike with electric motor that only engages while the rider is pedaling (pedal-assist or pedelec). |
| What is the max assisted speed?   | 19 MPH                                                                                                 | 20 MPH                                                                                | 20 MPH                                                                                            | 20 MPH                                                                                        | 28 MPH                                                                                            |
| Do I need a license?              | NO                                                                                                     | NO                                                                                    | NO                                                                                                | NO                                                                                            | NO                                                                                                |
| Do I need to register my vehicle? | NO                                                                                                     | NO                                                                                    | NO                                                                                                | NO                                                                                            | NO                                                                                                |
| Where can I ride?***              | Trails, multi-use paths, and sidewalks; may only operate on roads with a speed limit of 25 mph or less | Roadways, bike lanes, trails, multi-use paths, and sidewalks                          | Roadways, bike lanes, trails, multi-use paths, and sidewalks                                      | Roadways, bike lanes, trails, multi-use paths, and sidewalks                                  | Roadways, bike lanes, trails, multi-use paths, and sidewalks                                      |
| Do I need to wear a helmet?       | Required for riders under 18; recommended for all                                                      | Required for riders under 18; recommended for all                                     | Required for riders under 18; recommended for all                                                 | Required for riders under 18; recommended for all                                             | Required for riders under 18; recommended for all                                                 |

\*Additional local regulations may apply to shared fleets.

\*\*All classes of e-bikes can be visually similar. The difference is in their max assisted speed and how the user can engage the motor.

\*\*\*Unless prohibited by local municipal code. Refer to local government regulations for more information and additional local e-bike restrictions.