



November 7-8, 2024





BIKE FACILITIES AND HOW THEY ARE USED

Stephanie Phillips, FDOT D5 Office of Safety Kelly Morphy / Ed Barsotti, Florida Bicycle Association







Overview

This session aims to:

- Bridge the gap between design intent and actual use of bike facilities
- Examine common decisions by users that weren't anticipated in the design phase
- Explore how to address these decisions proactively

Session objectives:

- Understand common discrepancies between design intent and real-world usage of bike facilities.
- Identify common decisions by vulnerable users including bicyclists who weren't anticipated in the design.
- Explore strategies to bridge the gap between design and use in solving challenges for transportation by bicycle.

Stephanie Phillips

- All things people walking & biking in District Five
- AASHTO President's Transportation Award for Mobility, 2022
- Safety Educator of the Year 2024, Children's Safety Village of Central Florida







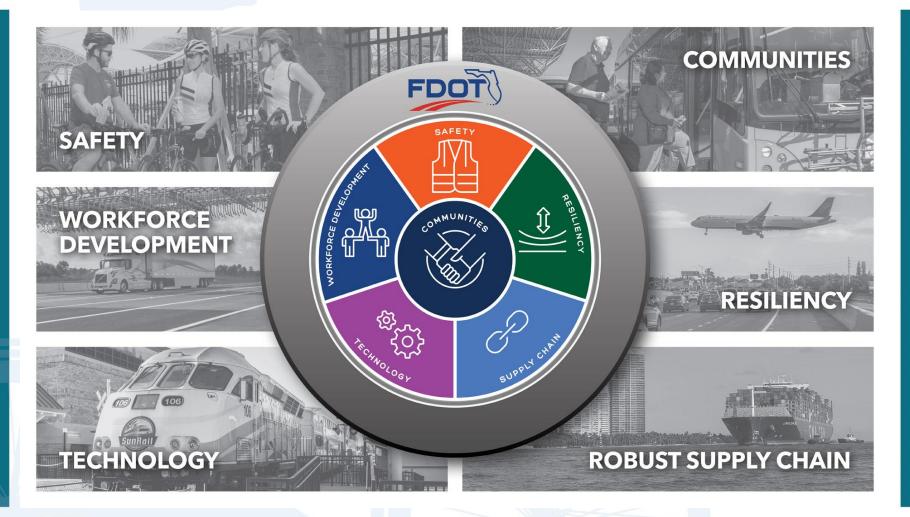










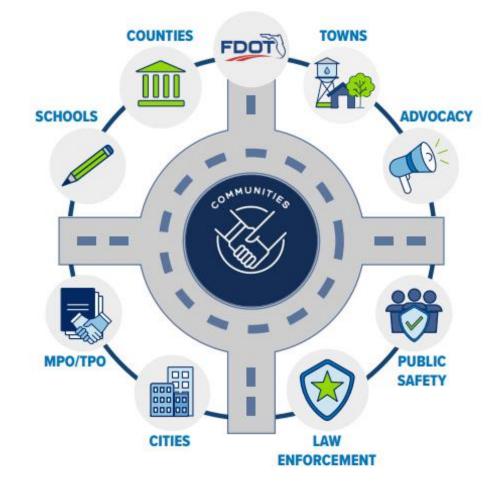


Safety Strategic Plan

- State and Local Communities
- Transportation, Public Safety, Schools working towards same goals
- Focus on Targeted Infrastructure and thinking Beyond Infrastructure to change behaviors
- Best Practices and Breakthrough Ideas

CENTRAL FLORIDA SAFETY STRATEGIC PLAN

Achieving ZERO serious injuries and fatalities
TOGETHER



Kelly Morphy

- Executive Director since 2022
- Former Executive Director of the Walkable and Livable Communities Institute
- 2021 Citizen Transportation Advocate of the Year by Women in Transportation Seminar of Central Florida







Florida Bicycle Association



Mission: Make Florida **better for people** who **want to bicycle** and for people who **need to bicycle**. 501c3, membership-based non-profit organization. We do this work to improve public health, strengthen local economies, advance equity, and protect the environment.





Why does it matter?



Real Users: Who Are They?





Real Users: Who Are They?











Spoiler Alert: They're Just People

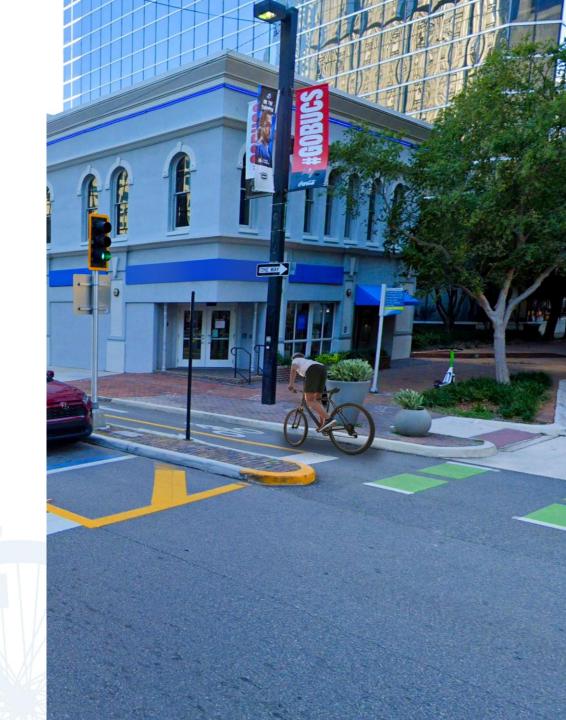
Why are bicyclists doing that??

- Unexpected actions
- Why?
- Engineering solutions



Actions to discuss:

- Sidewalk, not bike lanes
- Traffic lane, not shoulder
- On-road, not sidepath
- Midblock, not at signal
- Away from edge/curb
- Contraflow biking





- Following laws
- FBA's FLBikeSafetyQuiz.com
- Education, enforcement uses











This guide is your quick reference for legal bicycling in Florida. Keep a copy in your pocket or bike bag for easy access.











Ed Barsotti

- With Florida Bicycle Association since 2020 and Ride Illinois since 2001
- Bike Infrastructure Assistance and BikeSafetyQuiz programs
- Florida Bicycle liaison on FDOT design policies

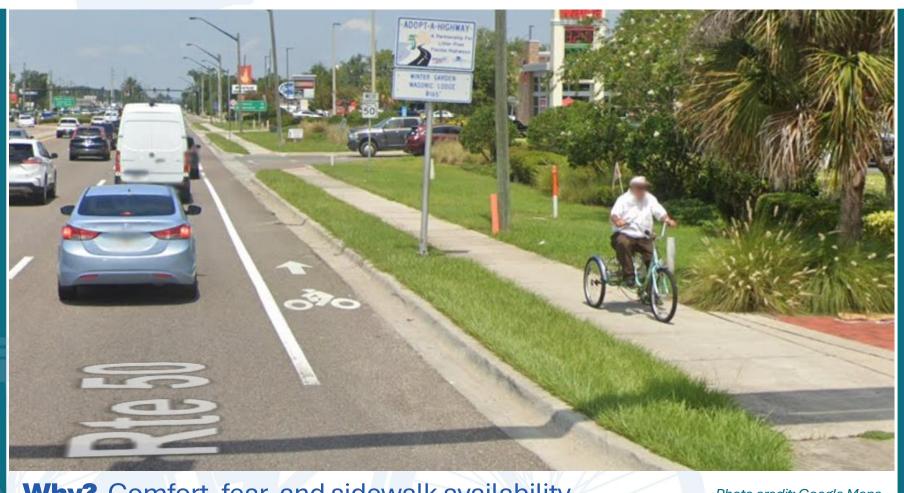








1) Sidewalks, not bike lanes

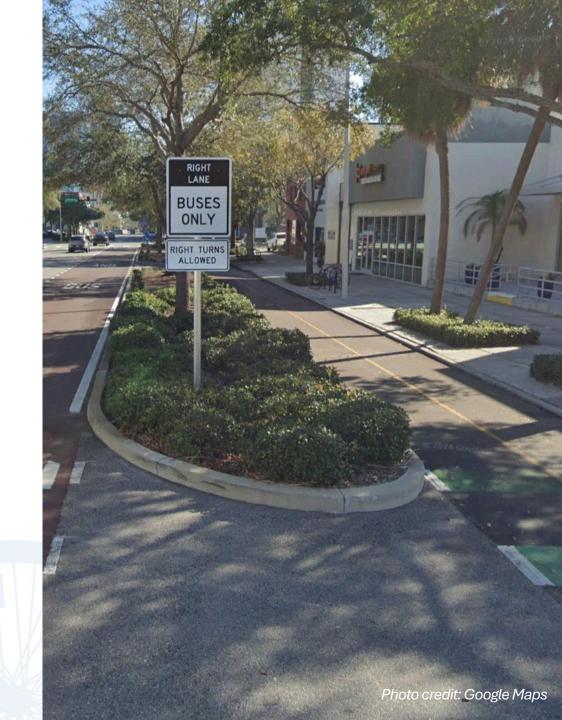


Why? Comfort, fear, and sidewalk availability

Photo credit: Google Maps

Bike lanes, history

- FDOT a pioneer
- Previous "best practice", all speeds
- Many built



Recent change

- 2019 FHWA → FDM
- Off-road higher speed
- Buffered Bike Lanes lower

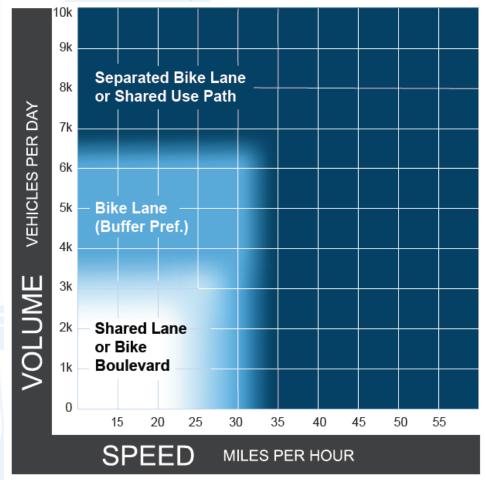


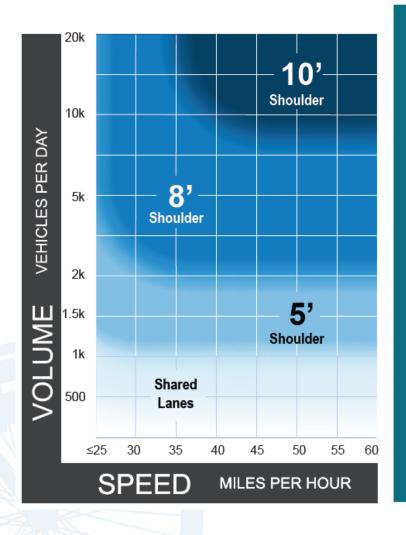




Recent change

• FHWA ideals; FDM fallbacks





2) Traffic lane, not shoulder

Why??

- Debris/maintenance
- Rideable space too narrow







Not enough space

- FDM, FHWA shoulder widths
- Rumble strips/AVTs
- Vegetation



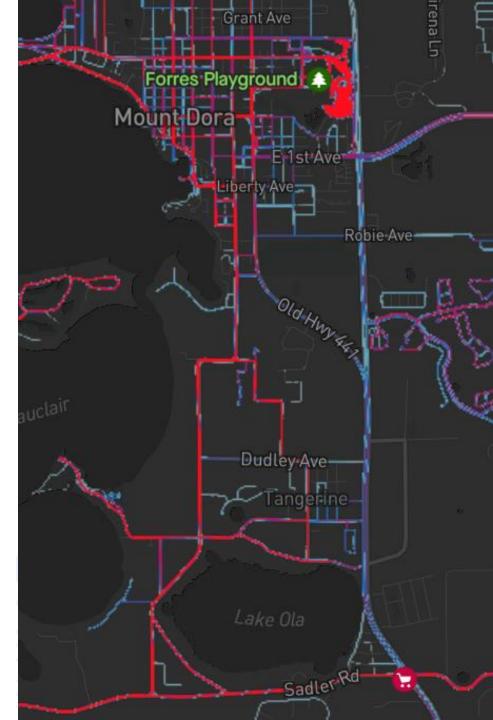
Sweeping, vegetation

If AVTs in shoulder →

- Sweep, wider, and/or edgeline
- Esp: C2T & up, demand, no sidewalks

Strava QR





3) On-road — not sidepath

Why?

Sidepath risks







Sidepath user conflicts

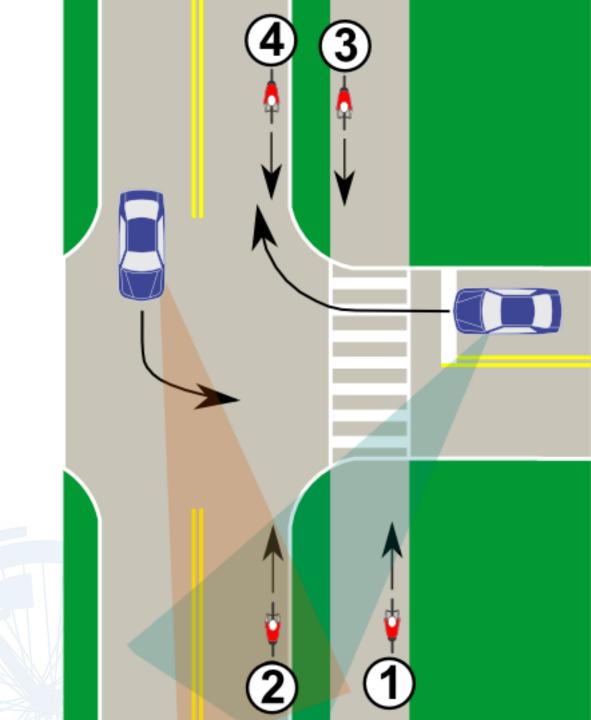
Pedestrians, others





• Best seen: on-road with flow

Worst: off-road contraflow







Sidepath stoplines

• Poor compliance, turning right, large turn radii







Other intersection behaviors

- Turning but not looking, yielding
- Sidepath stop signs
- Faster speeds, more risk







Engineering help?

- Minor: turn radii. Major: corner islands.
- Choosing sides



4) Crossing midblock, not at signal

Why?

Quicker, often safer







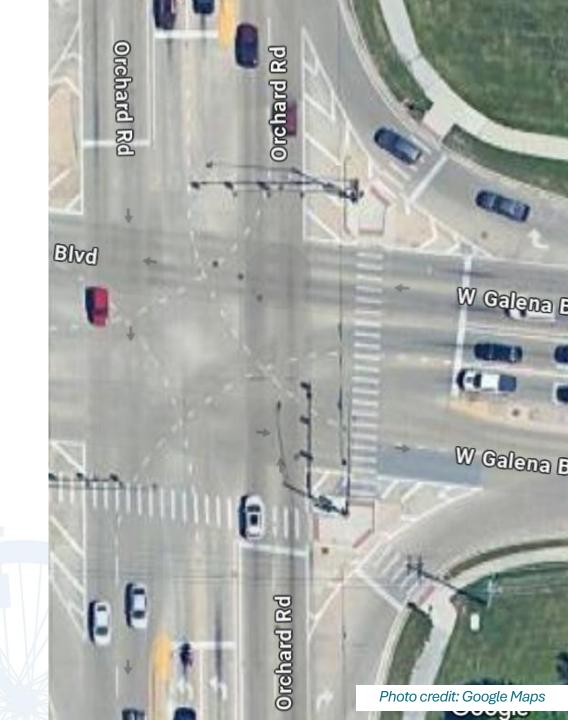
Intersection issues

- Multiple conflicts
- Intersection LOS vs. crossings



Better crossings

- Turning radii
- Right-corner islands
- Leading Pedestrian Intervals







Mid-block crossings

- Fewer conflicts
- Crossing treatment improve



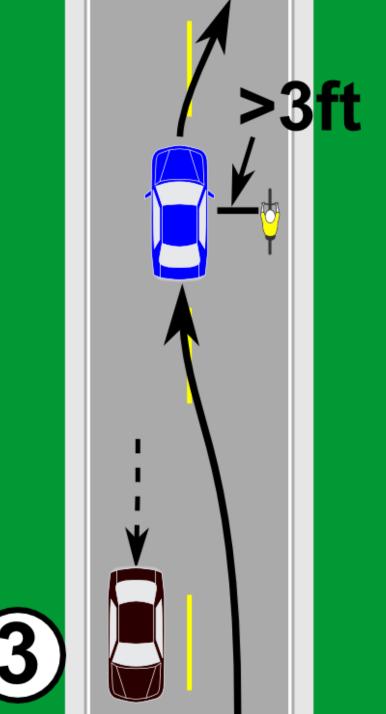




5) Away from edge/curb

Why?

- Discourage "squeeze-by"
- 14', 12', 10' lane widths



6) Contraflow biking

Why?

- Hit from behind; intersections
- Faster = riskier
- Educate, enforce







Data - Identifying Behaviors







Education – Targeting Behaviors





Did you know?

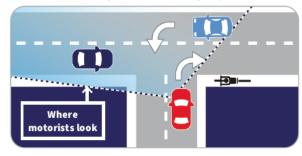
More than **60% of bicycle crashes** on US 192 from I-95 to Babcock Street are the result of motorists failing to look for bicyclists riding from the right on the sidewalk.

www.AlertTodayFlorida.com

Funded by the Florida Department of Transportation in partnershi with Space Coast Transportation Planning Organization



Motorists often only look where they expect to see cars.



Florida law requires motorists yield to all traffic on sidewalks next to a roadway. Florida law also allows bicyclists riding on a sidewalk all the rights and duties applicable to a pedestrian.

Remember these tips when you drive:

- Always stop at the stop sign before turning and scan the sidewalk for bicyclists before making a right turn.
- 2 Be alert! Bicyclists and pedestrians are not easily seen at night.
- 3 Bicycles are legal vehicles; move over when passing.
- 4 Slow down! Speed is a major cause of fatal crashes.









Education – Designers and Users

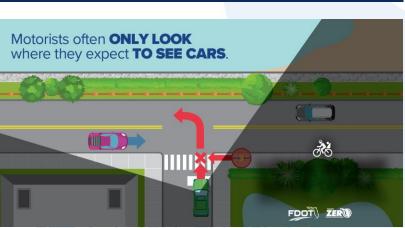






Education – Safety Starts with Us!











FDOT







Education – Safety Starts Early!





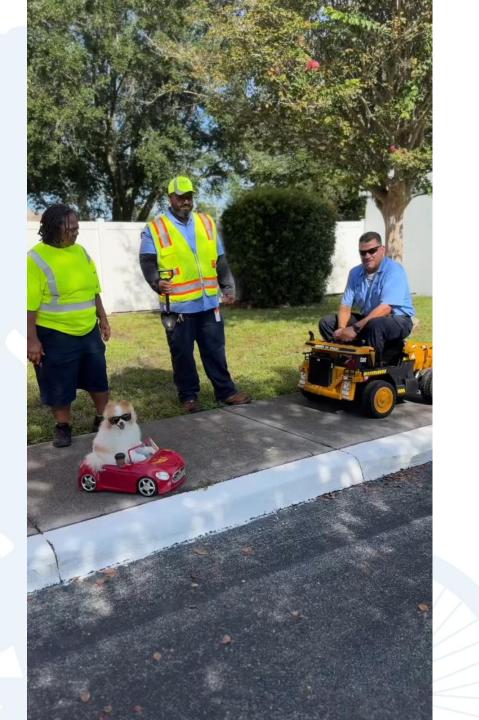








FDOT Safety Message







Thank you!

Contact Us

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