



States' Experience with STEP

SASHTO Meeting August 19, 2019





HOSTS

Dan Hinton FHWA

Marc Start AECOM

GUESTS

Trenda McPherson Florida DOT

Hanna Cockburn North Carolina DOT

Jack Anninos Georgia DOT





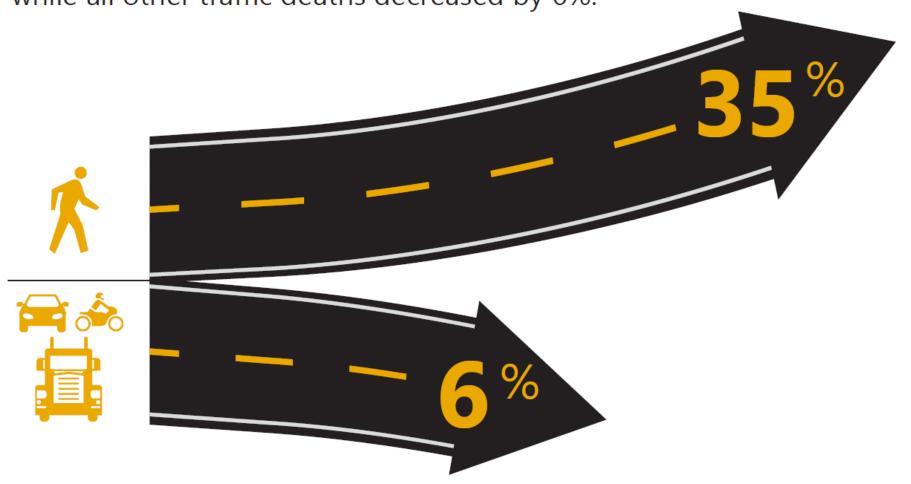


Source: FHWA

Source: FHWA



Pedestrian fatalities increased 35% from 2008-2017, while all other traffic deaths decreased by 6%.



Source: NHTSA Fatality Analysis Reporting System











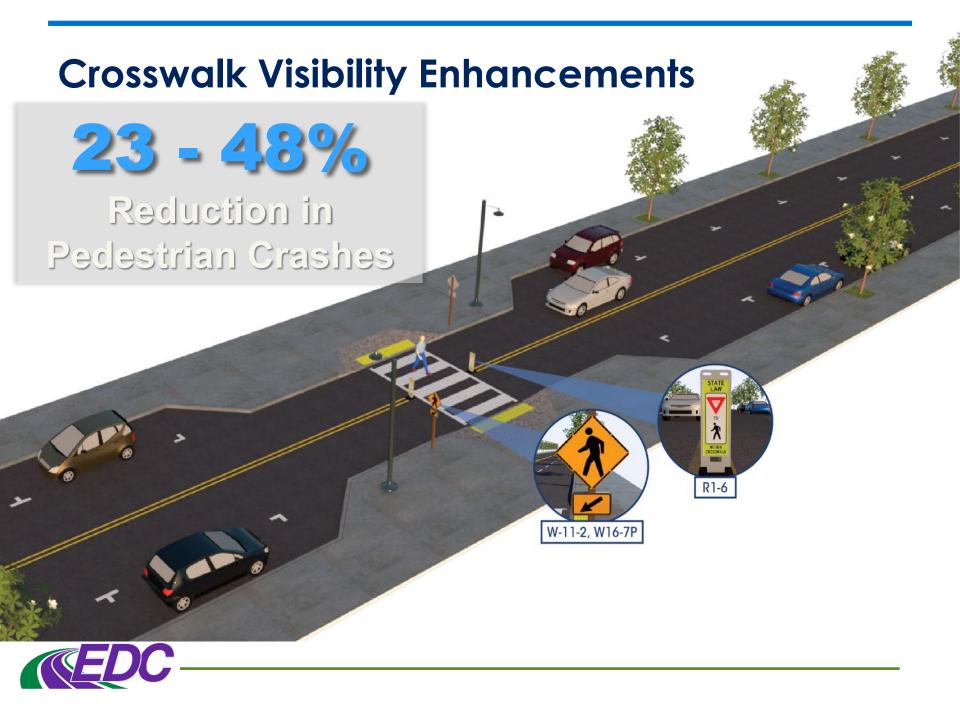
The Spectacular Seven



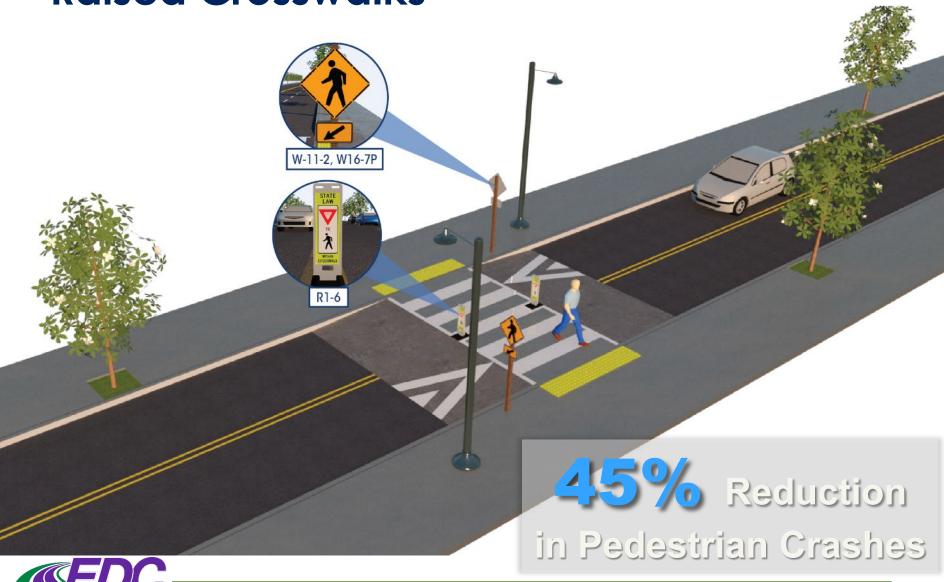


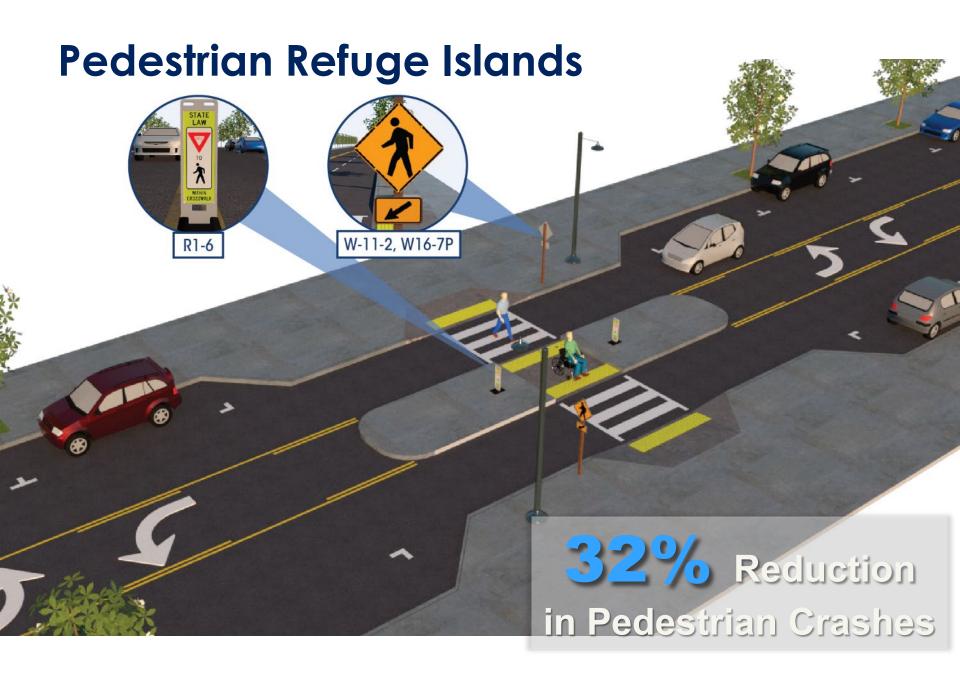


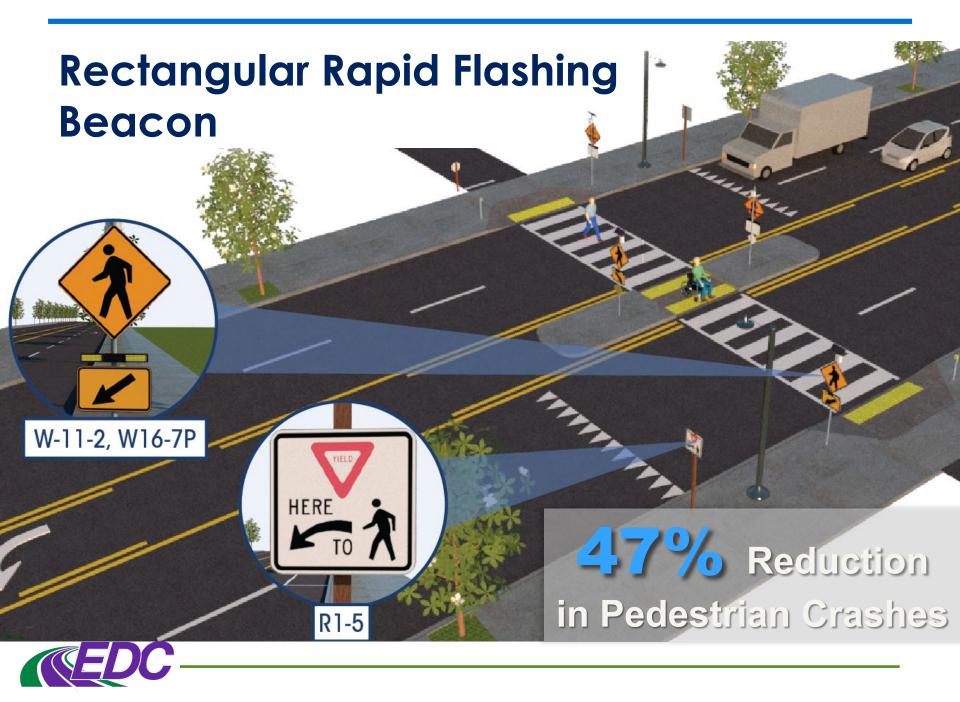




Raised Crosswalks

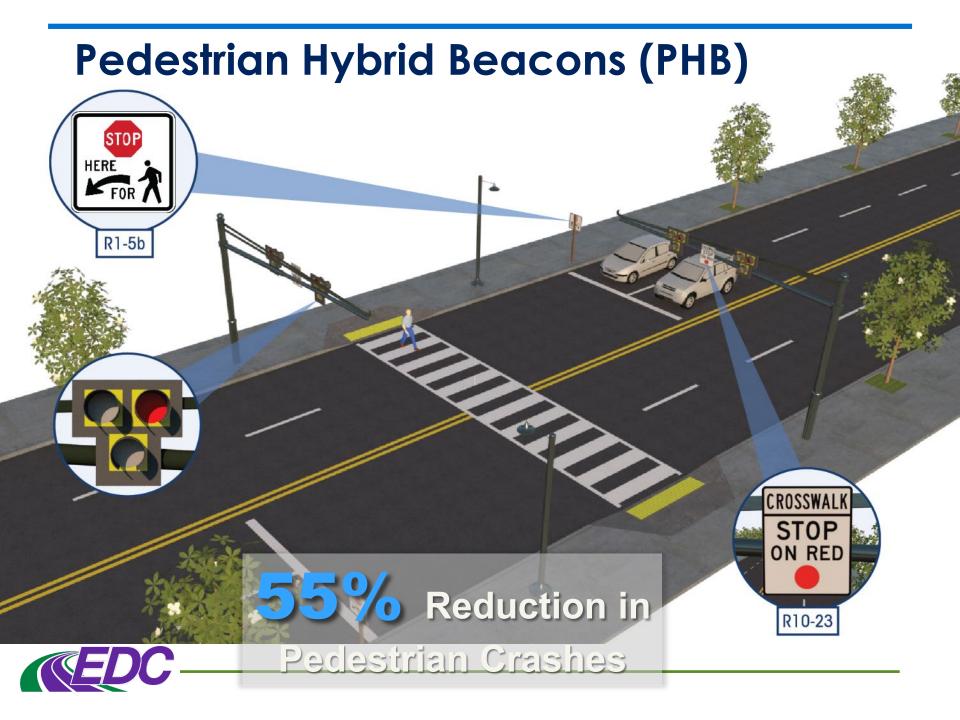






RRFB Video IA-21Flash Pattern





Pedestrian Hybrid Beacons (PHB)







2





Flashing yellow





3 Steady yellow





4 Steady red





5 Wig-Wag





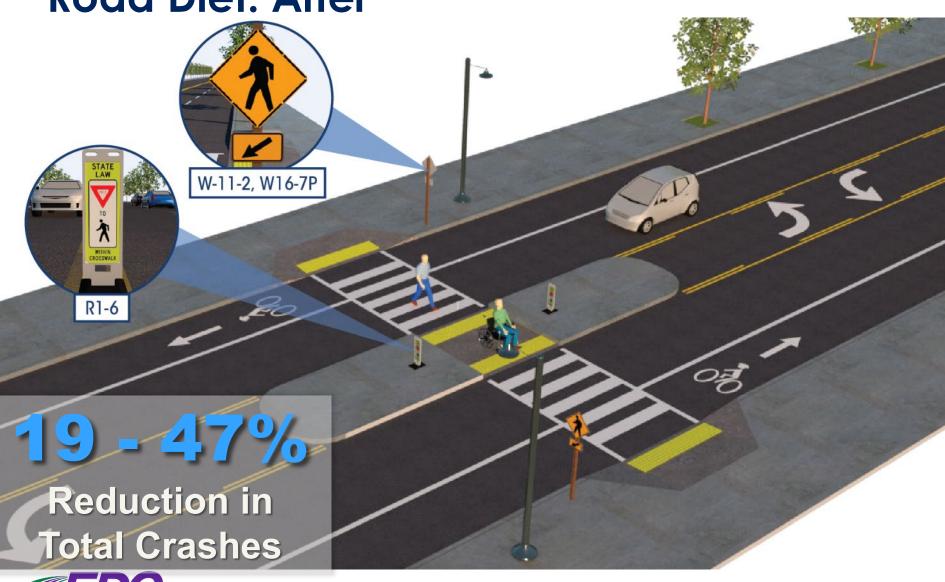
Return to 1







Road Diet: After





Where you walk, what do you see?



OR





Florida's Bicycle/Pedestrian Focused Initiative



Trenda McPherson
State Bicycle Pedestrian Safety Program Manager
Florida Department of Transportation
August 19, 2019



Intermodal systems improve the safety, mobility, and accessibility of **ALL** road users.

Especially those who are the most vulnerable.











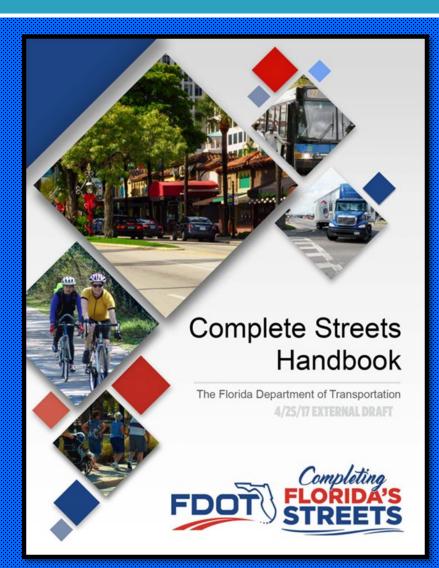
By Defining Walking and Biking as Transportation Options, not Alternatives.



Safety: Safety for all users is FDOT's top priority. Roadways with context-appropriate speeds can result in reduced fatalities and serious injuries.

www.flondacompletestreets.org

The Complete Streets approach considers the mobility, convenience, accessibility, and safety of all road users, and places an emphasis on the most vulnerable users of a given roadway.



Economic Development

A Complete Streets approach connects communities and supports Florida's existing economic centers, employment centers, and visitor destinations by striving to provide the highest level of multimodal infrastructure in these core areas.

Quality of Life: A Complete Streets approach helps to align transportation decisions with land use, resulting in quality places Where transportation investments support a community's quality of life



Strategic Alliances









Transportation Planning Organization











































Lake

Hamilton























HOW TO USE AN RRFB

(Rectangular Rapid Flashing Beacon)

Pedestrians and Bicyclists



Press the button to activate the RRFB signals; the lights will begin to flash indicating to motorists a pedestrian is ready to cross.

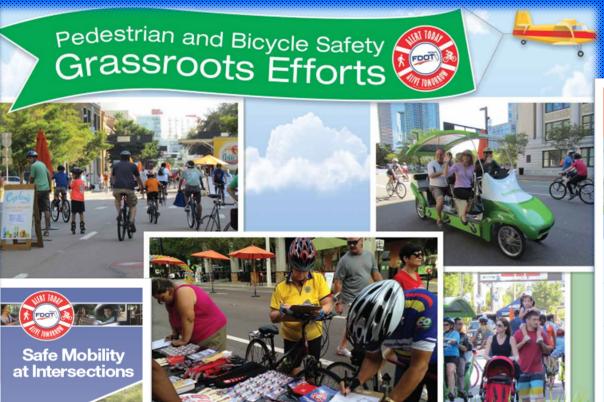
Pedestrian:

- Make eye contact with motorists to be sure traffic is yielding before entering the crosswalk.
- 2. Walk defensively, scanning both directions to be sure motorists see you.
- 3. Always scan the road while crossing making sure all vehicles have stopped.

Ricyclist

- 1. Obey all traffic signs and signals.
- 2. When using the crosswalk, follow the
- 3. When using the travel lane, ride in the direction of traffic and always yield to pedestrians.

www.AlertTodayFlorida.com























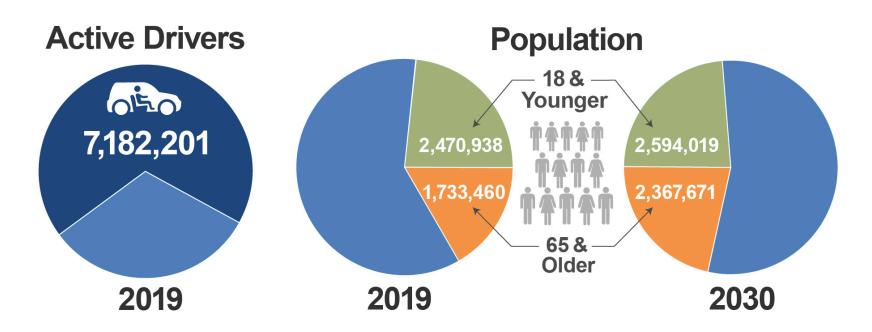


Strategies to Improve Pedestrian Safety in NC

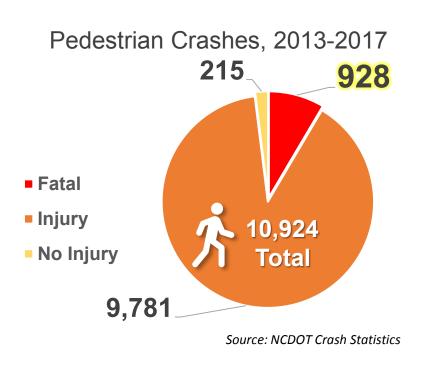
Hanna Cockburn, AICP
Director of Integrated Mobility
North Carolina Department of Transportation
August 2019

Why? North Carolina's Population is Changing

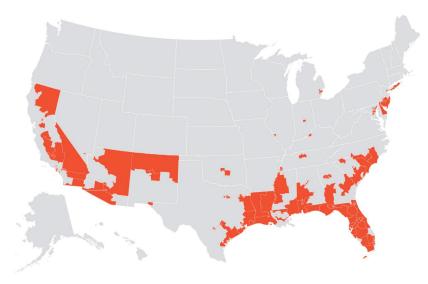
NC's current population of 10,524,548 is expected to top 11M by 2030



Why? Pedestrian Crashes are Rising



100 Most Dangerous Congressional Districts for Pedestrians



Source: Smart Growth America, 2019

NC 7th highest total pedestrian fatalities by state

Education: Complete Streets

Collaborative Approach to Advance Complete Streets

In 2019...

- 6 day-long workshops
- 226 Attendees
 - State DOT
 - Local Government
 - Advocates
- Focus
 - Working together
 - Understanding process



Enforcement: W4M NC

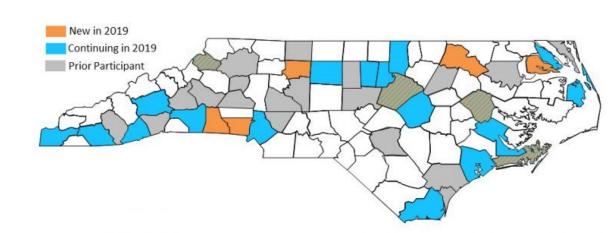


In 2019...

- 7 half-day and full-day law enforcement training sessions
- 5 community action-planning workshops
- 39 participating communities, 187 participants

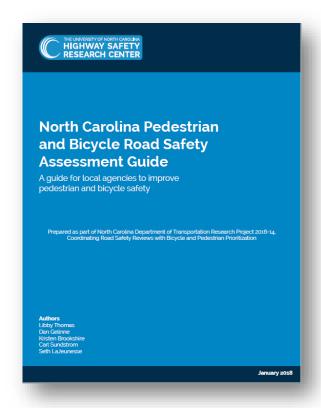
2018 Evaluation...

 12.8% reduction in pedestrian crashes in participating counties



Engineering: Plans & Guides

Action Plan for Implementing Pedestrian Crossing Counter Measures at Uncontrolled Intersections (2018)



EDC North Carolina Department of Transportation **ACTION PLAN FOR** IMPLEMENTING PEDESTRIAN **CROSSING COUNTERMEASURES** AT UNCONTROLLED LOCATIONS

NC Pedestrian and Bicycle Road Safety Assessment Guide (2018)



Take a STEP Through Georgia

SASHTO 2019 Savannah, GA

Jack Anninos, GDOT
State Bicycle & Pedestrian Engineer



Pedestrian Safety Action Plan

STRATEGIES

- Data
- Planning & Policy
- Infrastructure Projects
- Education, Enforcement, & Outreach
- Funding



Pedestrian Streetscape Guide

- STEP Countermeasures
- Context Sensitivity
- Create Comprehensive Toolbox Approach
- Clear and Updated Graphics
- Developed with Multidisciplinary team



Building a Sense of Culture

- Statewide Pedestrian and Bicycle Initiatives
- GDOT Coordination with Safety Partners
- Pedestrian and Bicycle safety should be incorporated into all of our daily operations

Pedestrian Safety Task Team

Partners in Safety & Education

Law Enforcement Support





Resources

https://safety.fhwa.dot.gov/ped_bike/step/resources/

Pedestrian Hybrid Beacon (PHB)

SAFE TRANSPORTATION FOR EVERY PEDESTRIAN

COUNTERMEASURE TECH SHEET

VIDEOS







Publicly-Supported Road Diet Reduces

Alexandria Department of Transportation and Environmental Services

KEY ELEMENTS:



Public support



Speed reduction

A Pedestrian Hybrid Beacon head consistenses above a single yellow lens. Unlike the PHB rests in dark until a pedestrian apushbutton or other form of detection. We the beacon displays a sequence of flast lights that indicate the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to proceed (see figure of the pedestrian walk it is safe for drivers to pedestrian walk it is safe for drivers to pedestri

The PHB is often considered for installatic

Community members can provide valuable insights into pedestrian safety on their streets, adding support to local projects such as the King Street Road Diet in Alexandria, Virginia. The City of Alexandria's Complete Streets policy requires that city maintenance and capital projects improve the transportation network for all users, so when a 1.8 mile segment of King Street was slated for resurfacing, the city had an opportunity to address longstanding community concerns and seek feedback on design options for improving the corridor.

Speeds in Alexandria

This section of King Street has a bus line, residences, multiple churches, a

stops, and upgraded curb ramps. Staff also presented options for more comprehensive corridor improvements such as a Road Diet, buffered bike lanes, new crosswalks, vehicle turning restrictions, and crosswalk visibility enhancements. In addition to dedicated space for bicyclists and shorter, safer pedestrian crossings at seven locations, the city also identified driver benefits from slower vehicle speeds, increased sight distance, and the addition of a center turn lane.

