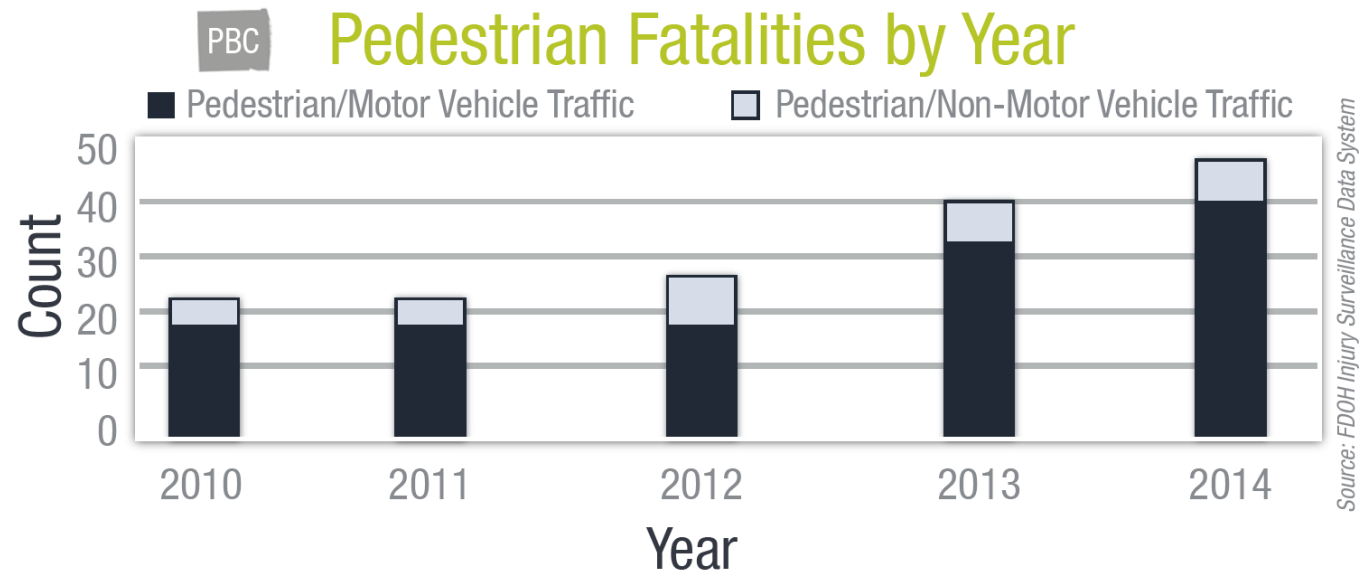


Pedestrian and Bicycle Safety Plan

Data Analysis
Countermeasures
Performance Measures



Pedestrian Fatalities are on the Rise



How do we Compare?

Table 2. Pedestrian Fatalities in the United States, Florida, and Palm Beach County

	Pedestrians		
	Pedestrian Fatalities	Percentage of Total Fatalities	Fatalities per Million Persons
United States⁽¹⁾	4,735	14.5	14.98
Florida⁽²⁾	606	24.30	30.47
Palm Beach⁽²⁾	35	26.92	25.51

⁽¹⁾Source: 2013 NHTSA Traffic Safety Facts (US table data)

⁽²⁾Source: 2014 DHSMV Crash Facts (PBC, Florida facts)

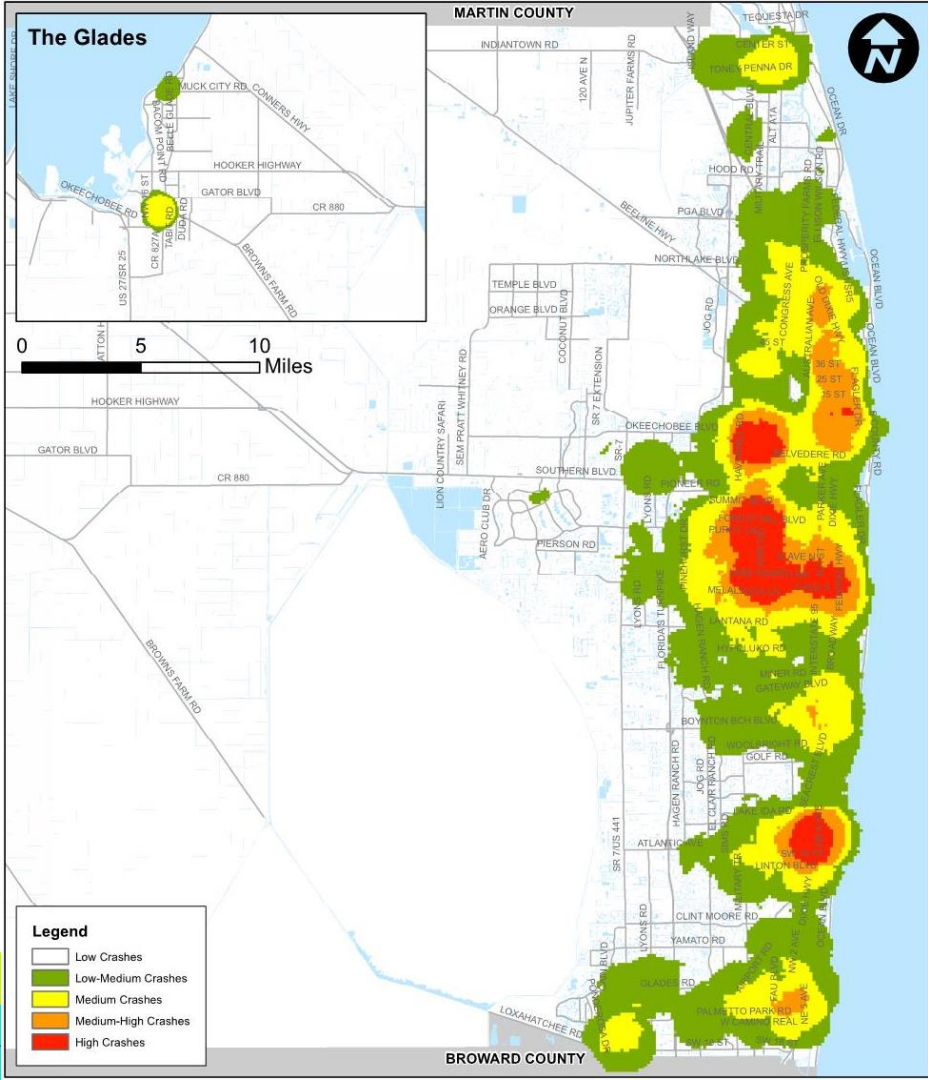
Table 3. Pedalcyclist Fatalities in the United States, Florida, and Palm Beach County

	Pedalcyclists		
	Pedalcyclist Fatalities	Percentage of Total Fatalities	Fatalities per Million Persons
United States⁽¹⁾	743	2.3	2.35
Florida⁽²⁾	135	5.41	6.78
Palm Beach⁽²⁾	7	5.38	4.10

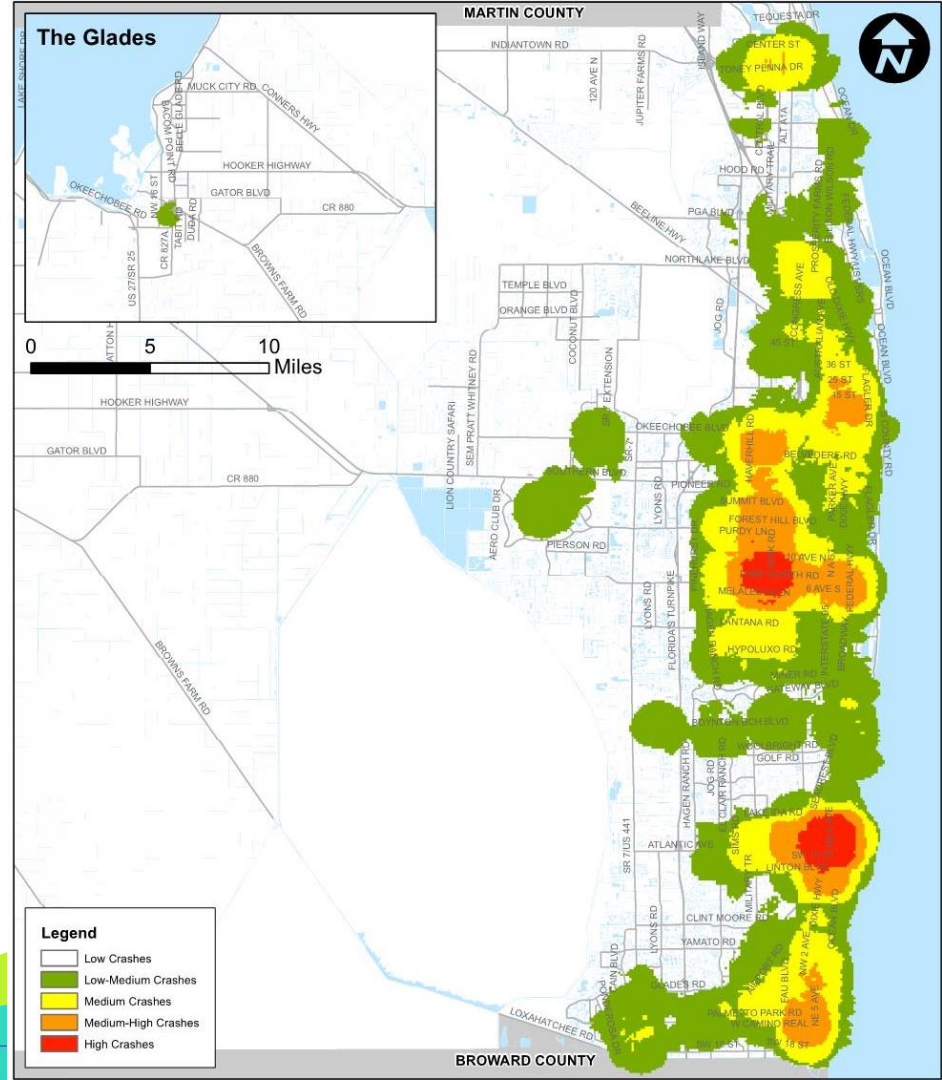
⁽¹⁾Source: 2013 NHTSA Traffic Safety Facts (US table data)

⁽²⁾Source: 2014 DHSMV Crash Facts (PBC, Florida facts)

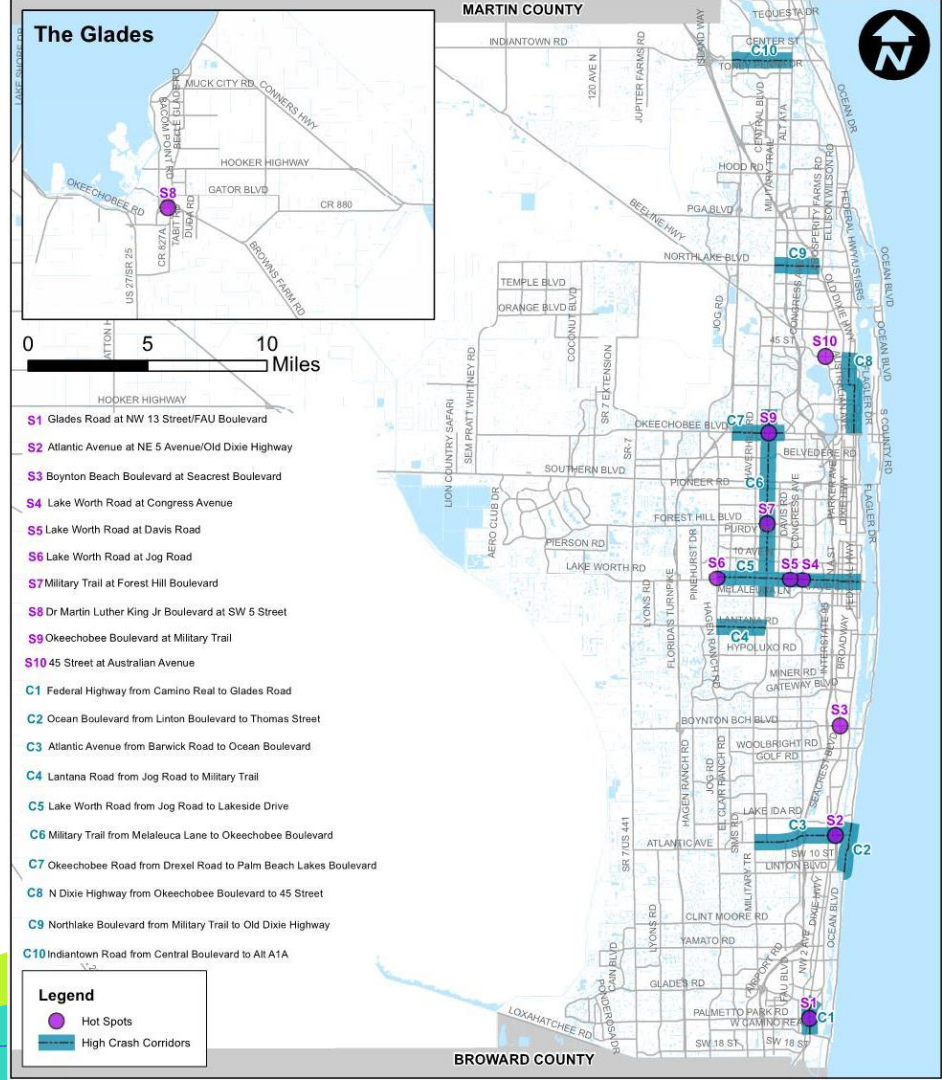
Pedestrian Crash Density



Bicycle Crash Density



Hot Spots and Corridors



Engineering Countermeasures

- Advanced Stop Lines/Bike Boxes
- Bus Stop Treatments
- Shared Lane Markings (sharrows)
- Crossing Islands
- Median Crossings
- Raised Pedestrian Crossings
- Accessible Pedestrian Signals (APS)
- Exclusive Pedestrian Phasing
- Leading Pedestrian Interval
- Flashing Yellow Arrow
- Prohibited Right Turn on Red (RTOR)
- Lane Eliminations/Narrowing
- Lighting and Illumination
- Rectangular Rapid Flashing Beacons (RRFB)
- Pedestrian Hybrid Beacons
- Speed Monitoring Devices



Advanced Stop Lines/Bike Boxes

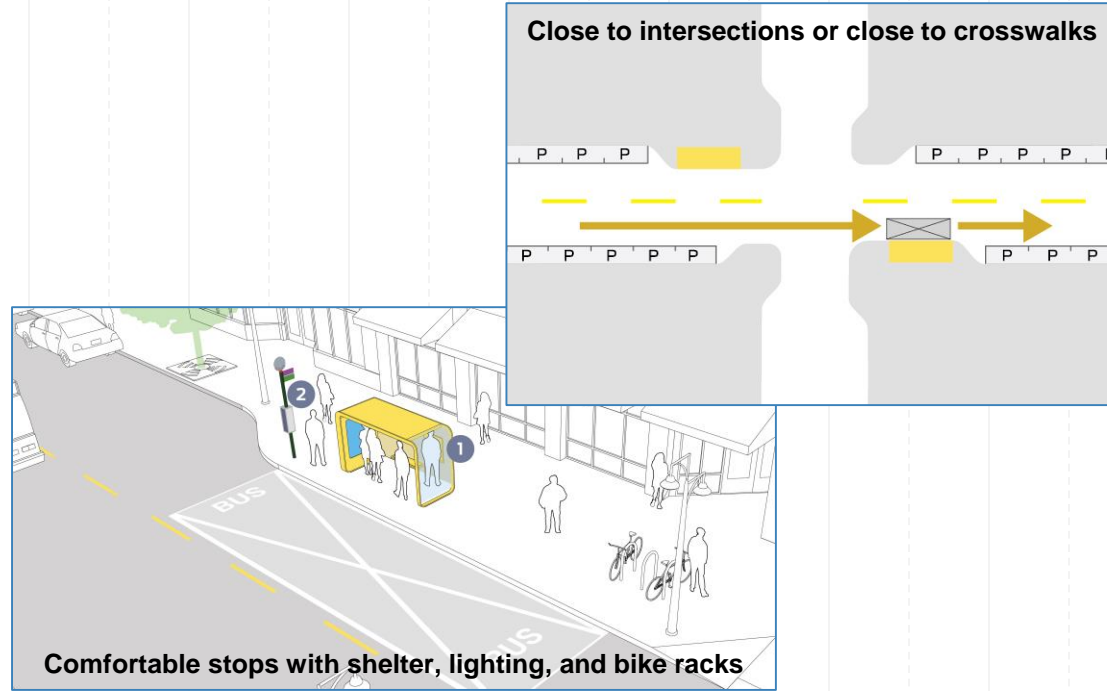
- ◉ **C2: Ocean Boulevard** from Linton Boulevard to Thomas Street (Ocean Boulevard at Atlantic Avenue)
- ◉ **C3: Atlantic Avenue** from Military Trail to Ocean Boulevard (Atlantic Avenue at Congress Avenue)



Source: National Association of City Transportation Officials (NACTO)

Bus Stop Treatments

- ◉ **S4: Lake Worth Road at Congress Avenue**
- ◉ **S6: Lake Worth Road at Jog Road**
- ◉ **S8: Dr Martin Luther King Jr Boulevard at SW 5 Street**
- ◉ **C4: Lantana Road from Jog Road to Military Trail**



Source: National Association of City Transportation Officials (NACTO)

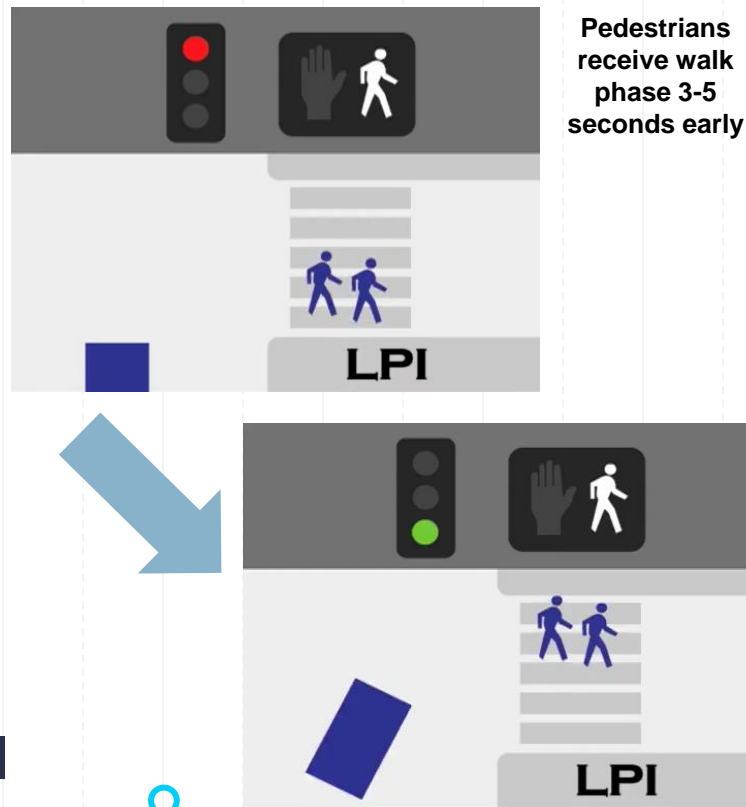
Crossing Islands

- **C10: Indiantown Road** from Central Boulevard to Alt A1A (Indiantown Road at Hepburn Avenue)
- **S4: Lake Worth Road** at Congress Avenue
- **S6: Lake Worth Road** at Jog Road
- **S7: Military Trail** at Forest Hill Boulevard
- **S8: Dr Martin Luther King Jr** Boulevard at SW 6 Street



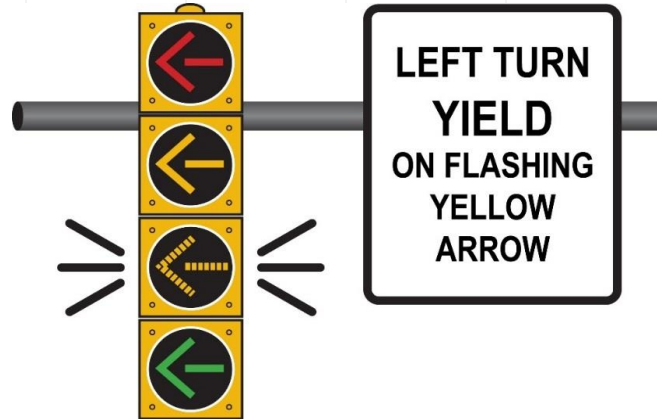
Leading Pedestrian Interval (LPI)

- ◉ **C2: Ocean Boulevard** from Linton Boulevard to Thomas Street (Ocean Boulevard at Atlantic Avenue)
- ◉ **C3: Atlantic Avenue** from Military Trail to Ocean Boulevard (Atlantic Avenue at Swinton Avenue)
- ◉ **C5: Lake Worth Road** from Jog Road to Lakeside Drive (Lake Worth Road at Military Trail)
- ◉ **S7: Military Trail** at Forest Hill Boulevard
- ◉ **S9: Okeechobee Road** at Military Trail



Flashing Yellow Arrow

- **C5: Lake Worth Road** from Jog Road to Lakeside Drive
- **C6: Military Trail** from Melaleuca Lane to Community Drive



Rectangular Rapid Flashing Beacons (RRFB)

- ◉ **(C10) Indiantown Road** from Central Boulevard to Alt A1A



Pedestrian Hybrid Beacons (PHBs)

- ◉ (S8) Dr Martin Luther King Jr Boulevard at SW 6 Street



Education, Encouragement, and Enforcement

- Visible Enforcement
- Progressive Ticketing
- Adult Cycling Skills Class
- Driver/Pedestrian Education
- Spanish Language Outreach Campaign
- K-12 Pedestrian and Bicycle Education
- Open Streets Event
- Officer Training



Safety Targets and Performance Measures

Objective	Current Value (2014) ⁽¹⁾	2025 Target	Vision ⁽²⁾
<i>Reduce the number of....</i>			
Pedestrian Injuries	323	≤160	0
Pedestrian Fatalities	32	≤15	0
Bicyclist Injuries	268	≤130	0
Bicyclist Fatalities	9	≤4	0
Pedestrian and Bicyclists Injuries and Fatalities that occurred within the hot spots and high crash corridors	159	≤79	0
Juvenile (Age 0-18) Bicycle and Pedestrian Crashes	82	≤41	0
Reduce pedestrian and bicyclist crashes that occur under dark conditions and between 10pm and 6am	57 ⁽³⁾	≤28	0

⁽¹⁾The current value (2014) are obtained from FDOT UBR data.

⁽²⁾Palm Beach MPO strives towards Vision Zero; where no pedestrians and bicyclists are injured or killed.

⁽³⁾Accounts for the number of crashes occur under dark conditions where street lights are both present and not present.

Safety Initiatives

Initiative	Lead Agency	Partners	Goal
Provide complete streets/safety education workshops	Palm Beach MPO	Local Municipalities, Palm Beach County Engineering, FDOT, FHWA, and FAU Center for Urban & Environmental Solutions (CUES)	At least 1 Workshop annually
Conduct road safety audits (RSAs) for hot spots & high crash corridors identified in this plan	Palm Beach MPO	FDOT, Local Municipalities, and Palm Beach County Engineering	At least 1 RSA annually
Conduct crosswalk safety campaigns in hot spots in this plan	Local Law Enforcement	FDOT Community Traffic Safety Team (CTST) and Alert Today Alive Tomorrow, Local Municipalities, Palm Beach County Engineering, FDOT, FHWA, South Florida Regional Transportation Authority (SFRTA), and Palm Tran	At least 1 Campaign annually
Educate children on pedestrian and bicycle safety skills	Palm Beach County School District	FDOT Safe Routes to School, SafeKids, WalkSafe, BikeSafe, Palm Beach YMCAs, and FAU CUES	All K-12 Schools Implement Curriculum annually
Educate adults on bicycle safety skills	League of American Bicyclists	Adult Education Organizations, FDOT, Palm Beach MPO, Local Municipalities, and AARP	At least 1 Training annually
Implement bike light safety campaigns to educate and distribute bike lights to cyclists in each hot spot and high crash corridor identified in this plan	Local Law Enforcement and FDOT	Local Municipalities FDOT CTST and Alert Today Alive Tomorrow, and League of American Cyclists	At least 1 Campaign annually

THANK YOU
Questions and Comments



Palm Beach MPO
**Pedestrian and
Bicycle Safety Study**

