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

<table>
<thead>
<tr>
<th></th>
<th>Pedestrians</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pedestrian</td>
<td>Percentage of</td>
<td>Fatalities per</td>
</tr>
<tr>
<td></td>
<td>Fatalities</td>
<td>TotalFatalities</td>
<td>Million Persons</td>
</tr>
<tr>
<td>United States(^{(1)})</td>
<td>4,735</td>
<td>14.5</td>
<td>14.98</td>
</tr>
<tr>
<td>Florida(^{(2)})</td>
<td>606</td>
<td>24.30</td>
<td>30.47</td>
</tr>
<tr>
<td>Palm Beach(^{(2)})</td>
<td>35</td>
<td>26.92</td>
<td>25.51</td>
</tr>
</tbody>
</table>

\(^{(1)}\)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

<table>
<thead>
<tr>
<th></th>
<th>Pedalcyclists</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pedalcyclist</td>
<td>Percentage of</td>
<td>Fatalities per</td>
</tr>
<tr>
<td></td>
<td>Fatalities</td>
<td>TotalFatalities</td>
<td>Million Persons</td>
</tr>
<tr>
<td>United States(^{(1)})</td>
<td>743</td>
<td>2.3</td>
<td>2.35</td>
</tr>
<tr>
<td>Florida(^{(2)})</td>
<td>135</td>
<td>5.41</td>
<td>6.78</td>
</tr>
<tr>
<td>Palm Beach(^{(2)})</td>
<td>7</td>
<td>5.38</td>
<td>4.10</td>
</tr>
</tbody>
</table>

\(^{(1)}\)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

Pedestrians receive walk phase 3-5 seconds early
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

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

$^{(1)}$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

<table>
<thead>
<tr>
<th>Initiative</th>
<th>Lead Agency</th>
<th>Partners</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provide complete streets/safety education workshops</td>
<td>Palm Beach MPO</td>
<td>Local Municipalities, Palm Beach County Engineering, FDOT, FHWA, and FAU Center for Urban &amp; Environmental Solutions (CUES)</td>
<td>At least 1 Workshop annually</td>
</tr>
<tr>
<td>Conduct road safety audits (RSAs) for hot spots &amp; high crash corridors identified in this plan</td>
<td>Palm Beach MPO</td>
<td>FDOT, Local Municipalities, and Palm Beach County Engineering</td>
<td>At least 1 RSA annually</td>
</tr>
<tr>
<td>Conduct crosswalk safety campaigns in hot spots in this plan</td>
<td>Local Law Enforcement</td>
<td>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</td>
<td>At least 1 Campaign annually</td>
</tr>
<tr>
<td>Educate children on pedestrian and bicycle safety skills</td>
<td>Palm Beach County School District</td>
<td>FDOT Safe Routes to School, SafeKids, WalkSafe, BikeSafe, Palm Beach YMCAs, and FAU CUES</td>
<td>All K-12 Schools Implement Curriculum annually</td>
</tr>
<tr>
<td>Educate adults on bicycle safety skills</td>
<td>League of American Bicyclists</td>
<td>Adult Education Organizations, FDOT, Palm Beach MPO, Local Municipalities, and AARP</td>
<td>At least 1 Training annually</td>
</tr>
<tr>
<td>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</td>
<td>Local Law Enforcement and FDOT</td>
<td>Local Municipalities FDOT CTST and Alert Today Alive Tomorrow, and League of American Cyclists</td>
<td>At least 1 Campaign annually</td>
</tr>
</tbody>
</table>
THANK YOU
Questions and Comments