Making the Case for Automated Enforcement

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Florida’s Challenges with Safety

THE TOP 20
Most Dangerous States for Pedestrians
Florida’s Challenges with Safety

Dangerous by Design 2019

- 8 of top 10 regions in Florida

Florida Statistics (2013-2018)

- Total Crashes: 400,661 21% increase
- Injuries: 253,820 17% increase
- Fatalities: 3,083 22% increase
- Pedestrian Fatalities: 681 26% increase
How We Got Here

Fowler Ave, Tampa
1585 Anna Catherine Dr, Eastwood Park, Orange County, FL
13415 Summer Rain Dr, Avalon Park, Orange County, FL
7.1 mile drive, yet only 70’ apart
The Implications of Speed

**Hit by a vehicle traveling at 20 MPH**
- 9 out of 10 pedestrians survive.

**Hit by a vehicle traveling at 30 MPH**
- 5 out of 10 pedestrians survive.

**Hit by a vehicle traveling at 40 MPH**
- Only 1 out of 10 pedestrians survives.
Florida’s Alert Today Campaign

- Alert Today/Alive Tomorrow
  http://alerttodayflorida.com/

- Complete Streets Policy & Implementation
  http://www.flcompletestreets.com/

- Promotion of Modern Roundabouts
  https://www.fdot.gov/agencyresources/roundabouts/index.shtm

- Guidance for Road Diets on State
  System
  https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/roadway/completestreets/files/lane-elimination-guide-part2.pdf?sfvrsn=5cda441f_4
Over 45% of fatalities and serious injuries occur at signalized and stop control intersections.
Safety at Intersections

Roundabouts are a proven safety solution

- 90% decrease in the fatal crash rate
- 35% decrease in the total crash rate
- 76% decrease in serious injuries
- 75% more efficient than signals
- Function during power outages
Vehicle Conflicts

8 Conflict Points
- Crossing (0)
- Diverging (4)
- Converging (4)

32 Conflict Points
- Crossing (16)
- Diverging (8)
- Converging (8)
Pedestrian Conflicts

8 Conflict Points

16 Conflict Points
Modern Roundabouts/Road Diets

College St., Asheville, NC
Orlando: Complete Streets/Network

- 1,100 Acres
- **32 Street Connections**
- 18,000 Residents
- 125 Businesses
- Publix, CVS
- 20 Neighborhood Parks
- “A” Rated Schools
- 50 miles of Trails
- Single Family
- Town Homes
- Apartments
- Condominiums
City of Orlando Safety Initiatives

Bike/Walk Central Florida
• Best Foot Forward ($60,000/year)

Vision Zero Network
• Vision Zero Action Plan
• Focus on High Crash Corridors/City/County/State

Training
• Conducting Road Safety Audit
• Developing a Pedestrian Safety Action Plan
• Designing for Pedestrian Safety

National Complete Streets Coalition
• Safe Streets Academy

Street Network/Land Development Initiative
Orlando Walks Sidewalk Program: targets priority areas: schools, parks, bus routes, shopping, and SunRail Stations. Completed 47 miles of sidewalk connections.


Pedestrian Crossing Enhancement Program: 3 rectangular rapid flashing beacon (RRFB’s) pedestrian crossings installed. Experiencing driver yield rates of up to 45%.
Orlando’s Vision Zero Efforts

Orlando Stops:

• Reduction in Right Angle Crashes of over 65%.
• Reduction in all crashes of 11%.
• Tickets issued by OPD officers
• Dedication of fines directly to safety improvements for pedestrian/bike and other transportation safety efforts
Orlando’s Vision Zero Efforts

- Traffic losses are preventable
- People walk away or have a full recovery
- Systems approach to prevention
- Leadership = essential!
Orlando’s Vision Zero Efforts

CORE ELEMENTS FOR VISION ZERO COMMUNITIES

- Leadership and Commitment
- Safe Roadways and Safe Speeds
- Data-driven Approach, Transparency and Accountability
## Orlando’s Vision Zero Efforts

### Year 2015 - 2017 Fatal and Severe Injury Crash Statistics

City of Orlando

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<th>Total Crashes</th>
<th>Fatalities</th>
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*These crashes do not account for crashes along Limited Access Facilities*
Orlando’s Vision Zero Efforts

- 349 total crashes
- Semoran North
  - 119 crashes
  - 34% of all crashes
- Curry Ford
  - 89 crashes
  - 25% of all crashes
- Semoran South
  - 69 crashes
  - 20% of all crashes
Orlando’s Vision Zero Efforts

- Adopt a safe systems approach in roadway design, operation and maintenance
- Increase everyone’s understanding of the leading causes of crashes resulting in fatalities and serious injuries
- Support law enforcement efforts to eliminate behaviors leading to fatal and serious injury crashes
- Demonstrate continuous progress toward Vision Zero
- Improve access and travel time to Level 1 Trauma Center and other hospitals
- Prioritize investments and programs in communities of concern
Orlando Stops Program

- Cameras at 24 intersections and 44 approaches
- As of October, 2018, issued 66,032 Notices of Violations
- Program net revenue was $1.9 million
- Orlando STOPS net revenue supports only safety initiatives: Engineering, Education, and Enforcement
- Orlando STOPS program is an Enforcement element
Safety Projects

- Safe Streets Academy Demonstration Project
- Vision Zero Action Plan
- Mercy Drive pedestrian improvements
- Virginia Drive pedestrian improvements
- Primrose Street road diet
City of Orlando Future Initiatives

• Speed Feedback Trailers
• Integrated Land Use/Corridor Studies
• Conversion of One-Way Streets
• Increased Use of Modern Roundabouts
• Expansion of Cycle Tracks/Trails/Routes
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