FDOT Bicycle/Pedestrian Focused Initiative & Complete Streets

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State Bicycle/Pedestrian Coordinator
Secretary’s Pedestrian Safety Initiative

- Dangerous by Design (2011, 2014)
- Orlando, Tampa, Jacksonville, Miami-Ft. Lauderdale
- Secretary Ananth Prasad... “Being #1 in pedestrian fatalities and serious injuries is NOT where Florida wants to be.”
Pedestrian Statistics

- Approximately 500 killed each year
- Approximately 1,600 seriously injured each year
- 3% of all traffic crashes, yet 20% of all fatalities
Top Ten Focus Counties

- Duval
- Volusia
- Orange
- Pinellas
- Hillsborough
- Polk
- Lee
- Palm Beach
- Broward
- Miami-Dade

Top 10 County
Alert Today Alive Tomorrow

• Complete overhaul of our Bike/Ped Program
  • Bike/Pedestrian Partnership Council
  • Bike/Pedestrian Policy Team
  • Bike/Pedestrian Leadership Team
  • Bike/Pedestrian Coalition
• District Champions
• Data Driven Approach
Strategic Resource Allocation

Greatest Return on Investment

- Engineering
- Enforcement
- Education
- EMS
Where We’re Going

• Training
  • Road Safety Audit training
  • Developing a Pedestrian Safety Action Plan
  • Designing for Pedestrian Safety
  • Roundabout Design

• Targeted engineering solutions
• Focused media campaign
• Focused law enforcement
High Visibility Enforcement Contracts

Pasco County Sheriff’s Office

Temple Terrace PD

Clearwater PD

Lee County SO
Fort Myers PD

Aventura PD
Miami Beach PD
City of Miami PD

Daytona Beach Shores DPS
Port Orange PD

Orlando PD
Winter Park PD

Juno Beach PD
Palm Beach County SO
Palm Springs PD

Sunrise PD
Coconut Creek PD
Coral Springs PD
Hallandale PD
Policy Initiatives

• Complete Streets Policy & Implementation
• Promotion of Modern Roundabouts
• Guidance for Road Diets on State System
• Context Based Bicycle/Pedestrian Facilities
• U.S. Bike Routes
• Bike and Pedestrian Statewide Plans
• Bike/Pedestrian Element for State LRTP
• Update Traffic Laws
Legal Crosswalks?

• CROSSWALK.—(a) That part of a roadway at an intersection included within the connections of the lateral lines of the sidewalks on opposite sides of the highway, measured from the curbs or, in the absence of curbs, from the edges of the traversable roadway.
Proposed Changes

• 316.003 (6) CROSSWALK.—

(a) Unmarked Crosswalk – an unmarked part of the roadway at an intersection used by pedestrians for crossing the roadway.

(b) Marked Crosswalks – Pavement marking lines on the roadway surface, contrasting pavement texture, style, or colored portion of the roadway at an intersection or mid-block used by pedestrians for crossing the roadway.
Recent legislative action

- “3 Feet Clear Law”
- Aaron Cohen Act
Contributing Factors

Fowler Ave, Tampa
Land Development Patterns

Conventional

Traditional

SOURCE: DPZ ARCHITECTS AND TOWN PLANNERS
Separated Land Use

Residential

Office

Expressway

Retail
School Board Policy

Orange County Elementary Schools ~ 1,000 Students

• 1969 - 48% of students walk or bike to school
• 2009 - less than 13% walk or bike to school
• Since 1945, the number of schools declined 70% while average school size grew from 127 to 653 students
• Most effective elementary school size = 300-400 students
Land Development Regulations
Speed and Pedestrian Fatalities

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.
FHWA Proven Countermeasures

- Roundabouts
- Corridor Access Management
- Backplates with Retroreflective Borders
- Longitudinal Rumble Strips and Stripes on Two-Lane Roads
- Enhanced Delineation and Friction for Horizontal Curves
- Safety EdgesSM
- Medians and Pedestrian Crossing Islands in Urban and Suburban Areas
- Pedestrian Hybrid Beacon
- Road Diet
Modern Roundabouts/Road Diet

College St., Asheville, NC
Modern Roundabouts/Road Diet

Asheville, NC
Refuge Islands/Raised Medians

California
Additional/Improved Treatments

Pedestrian Hybrid Beacon

Rectangular Rapid Flashing Beacon

St. Petersburg, FL
TND Chapter, Florida Greenbook

• Established through Florida rulemaking process
• For local streets
• Includes a TND Handbook
  • Best Practices
  • Educational

http://www.dot.state.fl.us/rddesign/FloridaGreenbook/FloridaGreenbook.pdf
“Every effort should be made to use as high a design speed as practical to attain a desired degree of safety, mobility and efficiency.”

AASHTO

VS.

Picking a desired speed based on the built environment (compact urban, suburban, rural)
Driver Expectation

Thomasville Rd, Tallahassee, FL
What was Billy’s speed over 1,500 miles?

A. 19 mph
B. 24 mph
C. 39 mph
D. 45 mph
Lane Width

Charleston, SC
Development Patterns

Small Blocks

Buildings at Street
Baldwin Park, Orlando, FL

- 1,100 Acres
- 250 Acres of Lakes
- 32 Street Connections
- 14,000 Residents
- 125 Businesses
- Mixed Use
- Publix, CVS
- 20 Neighborhood Parks
- “A” Rated Schools
- 50 miles of Trails
- Single Family
- Town Homes
- Apartments
- Condominiums
- Live/Work
Define the Context

Transect Zones, Smart Code
Mixed Use Development

New York Ave, Winter Park, FL
Neighborhood Stores

Central Ave, Orlando, FL
Neighborhood Schools

Theodore Roosevelt Elementary, Tampa, FL
Neighborhood Parks

Children's Playground, Orlando, FL
Making a Street Complete

Woodville Hwy, Woodville, FL