



Implementing Complete Streets in Florida

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- Founded in 1986, 1000 Friends of Florida is a 501(c)(3) nonprofit membership organization.
- We work to save special places and build better communities.
- We educate, advocate and negotiate to protect Florida's high quality of life.
- Our bipartisan board of directors includes advocates and experts from across the state.
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Dr. John M. DeGrove Webinar Series



- May 4, 1924 – April 13, 2012
- Icon of comprehensive planning both in Florida and across the nation
- One of the founders of 1000 Friends of Florida
- First Secretary of the Florida Department of Community Affairs
- His accomplishments recognized with the John M. DeGrove Eminent Scholar Chair in Growth Management and Development at Florida Atlantic University
- To find out more, please visit:
www.1000friendsofflorida.org/dr-degrove/



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This webinar has been approved for:

- 1.5 AICP CM for Planners (#9145908)
- 2.0 CLE for Florida attorneys (#1802730N)
- 1 CEC for Certified Floodplain Managers
- .15 CEUs for Florida Environmental Health Professionals

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Urban Tree Selection for Sustainability

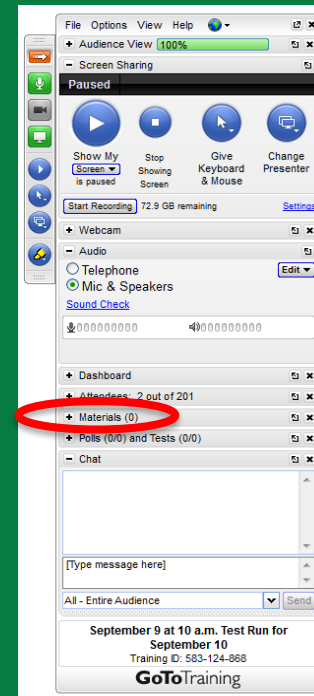
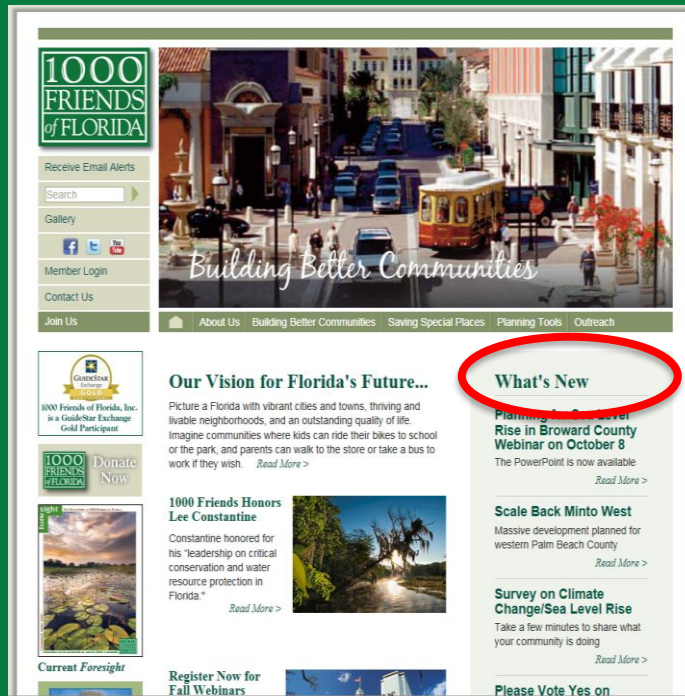
- 1.5 AICP CM for Planners (#9147930)
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1000 Friends has applied for credits for Certified Floodplain Managers and Florida attorneys but cannot guarantee they will be approved.

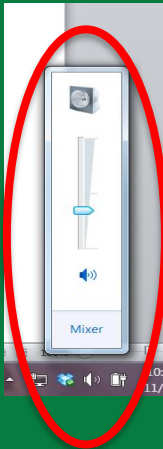
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The PowerPoint is available at www.1000friendsofflorida.org

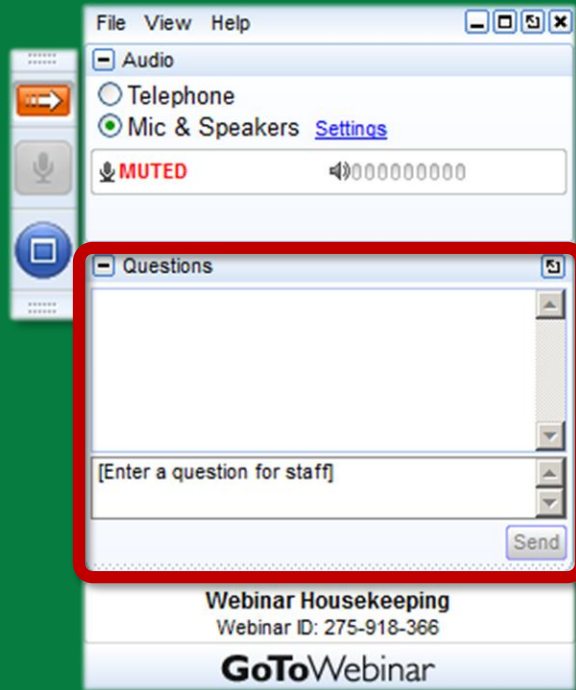


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- Please keep your questions succinct!
- Staff will ask the presenters questions, as time permits

Check out our Legislative Webpage!

Available at:

www.1000friendsofflorida.org/2018-florida-legislative-session-custom/

This site is:

- Includes what passed and failed
- Includes Growth Management, Transportation and Conservation Legislation
- Includes links to the bills



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2018 Florida Legislative Session and Constitution Revision Commission

Updated March 12, 2018

Useful Links: [Florida House](#) * [Florida Senate](#) * [Find Your Legislators](#)

Bill Status: **PASSED, DID NOT PASS**

2018 Florida Legislative Preview Webinar
Check out the [PowerPoint](#)

[Register now for FREE 2018 Florida Legislative Wrap Up Webinar](#)
Wednesday, March 21, 2018 from noon to 1:30

Approved for professional certification credits for Planners (AICP CM LEGAL): Have applied for credits for Florida Attorneys (CLE), Certified Floodplain Managers (CEC) and Florida Environmental Health Professionals but cannot guarantee they will be offered

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2018 Florida Legislative

GROWTH MANAGEMENT/PLANNING LEGISLATION

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Presenters



DeWayne Carver, AICP



- Florida Department of Transportation's Complete Streets Program Manager.
- Manages the Department's transition to context-based design, also known as "Complete Streets", working with various offices throughout the department.
- Provides technical assistance based on his prior experience with walkable thoroughfare design, form-based coding, and city and regional planning.
- Prior to coming to FDOT, worked in the private and public sectors in real estate development, planning, transit, and university research.
- Master of Regional Planning Degree from the University of North Carolina, Chapel Hill, and a Bachelor of Arts degree from the University of Tennessee, Knoxville.
- Lives in Tallahassee, FL with his wife and children.



Billy Hattaway, P.E.



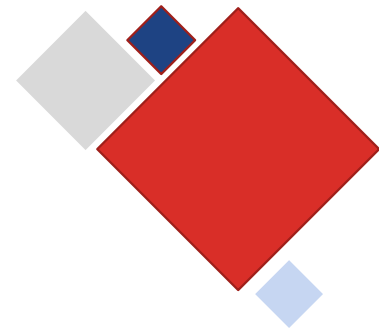
- Transportation Director for the City of Orlando
- Bachelor's degree in Civil Engineering Technology from Wentworth Institute of Technology and MBA from Florida State University
- Former champion for both the Florida Department of Transportation's Pedestrian and Bicycle Focused and Complete Streets Implementation Initiatives to improve pedestrian and bicyclist safety and comfort in the state of Florida.
- Also the Chair for Bike/Walk Central Florida, a non-profit organization dedicated to safety for pedestrians and bicyclists
- Professional experience includes transportation planning, street design, safety and traffic analysis for a wide variety of transportation projects including redevelopment, transit oriented development and master plan charrette projects to create walkable, bike and transit friendly communities
- Was recognized by *Governing Magazine* as a 2014 Public Official of the Year, and by the Florida Chapter of the Congress for the New Urbanism with the John Nolen award for his leadership on the Department's bicycle/pedestrian safety and Complete Streets initiatives



Complete Streets and Local Government

DeWayne Carver, AICP
State Complete Streets Program Manager
Florida Department of Transportation





COMPLETE STREETS AND LOCAL GOVERNMENT

DeWayne Carver, AICP

State Complete Streets Program Manager

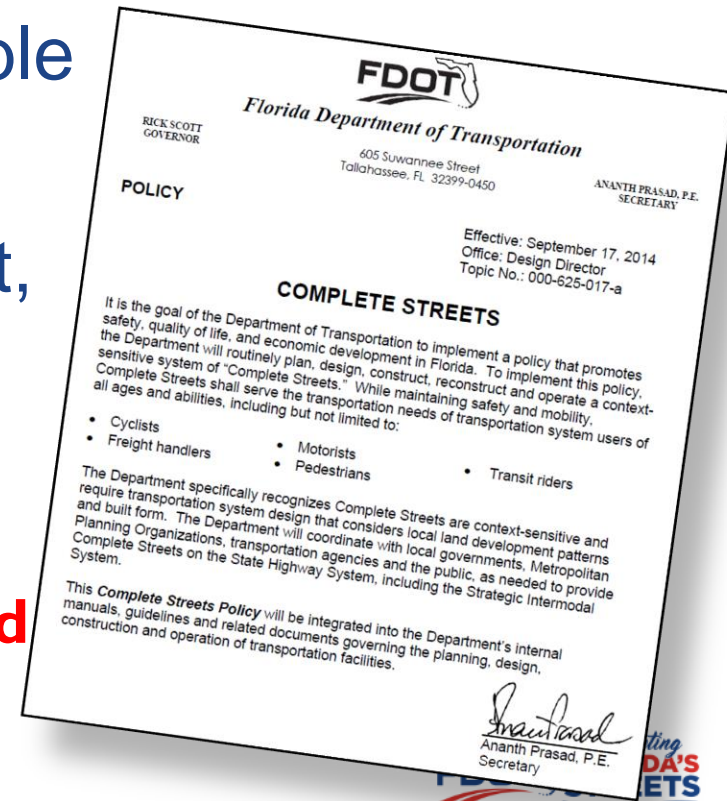
FDOT Roadway Design Office



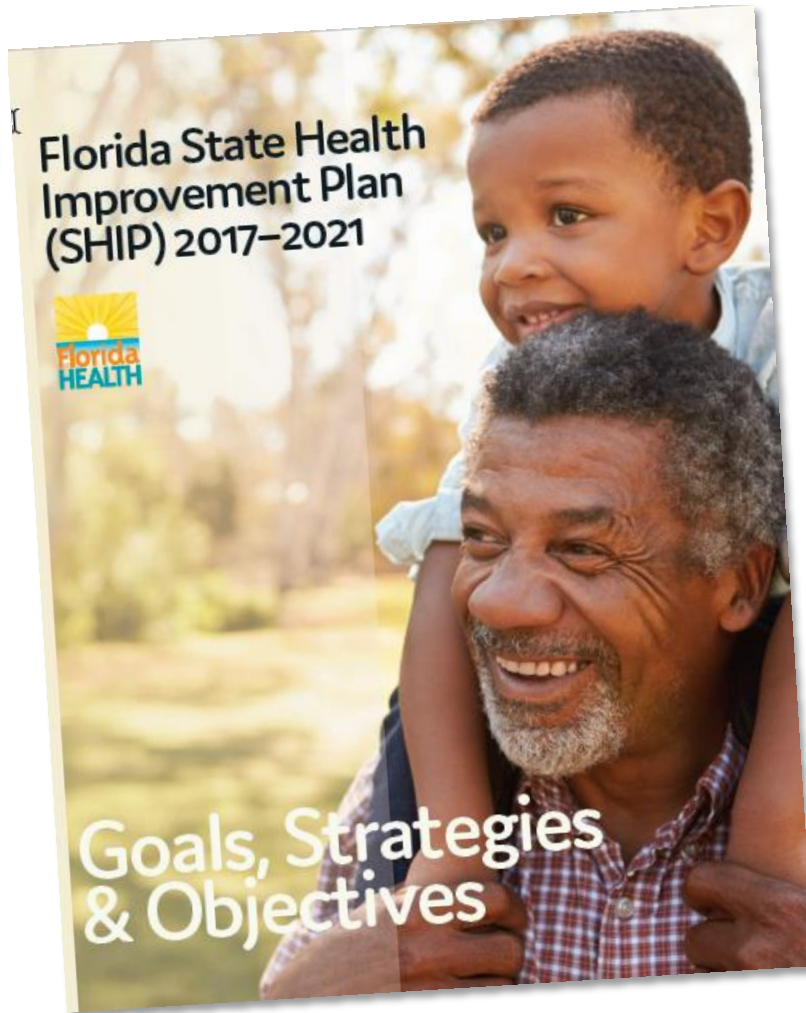
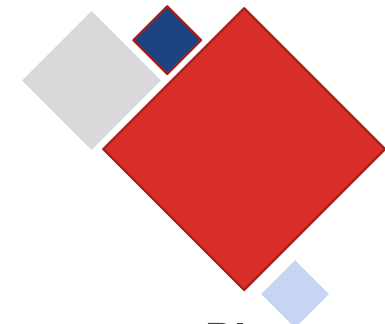
FDOT Complete Streets Policy

- 100+ yrs. – select typical section elements based on needed capacity and urban/rural designation.
- 15 years ago “Context Sensitive Solutions” debuted.
- Transportation Design for Livable Communities
- Safety, Economic Development, Quality of Life

**Policy adopted
in Sept 2014**



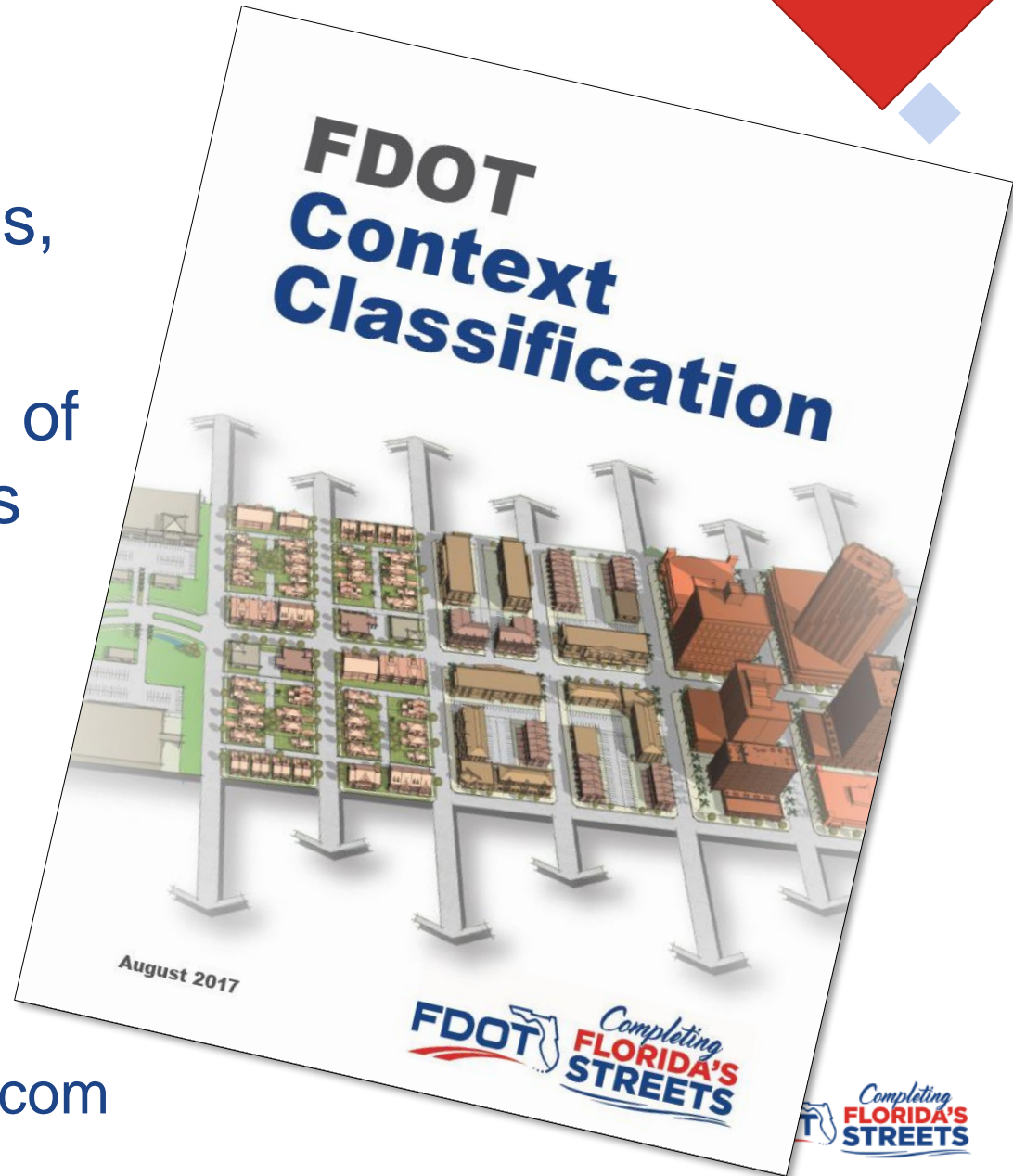
COMPLETE STREETS/HEALTHY STREETS



- FDOH State Health Improvement Plan
 - “Chronic diseases are largely preventable by engaging in healthy behaviors.”
 - “Most health care related costs in the U.S. are associated with chronic disease conditions.
 - “**\$147–\$210 billion:** Current per year health care cost estimates in the U.S. due to obesity. Obesity is one of the biggest drivers of preventable chronic diseases and health care costs.”
 - **20% of cancers** are caused by being overweight and obese—often a result of unhealthy eating and lack of physical activity.”

FDOT Context Classification

- Defines Approach, Process, Expectations, Best Practices
- Complete description of context classifications



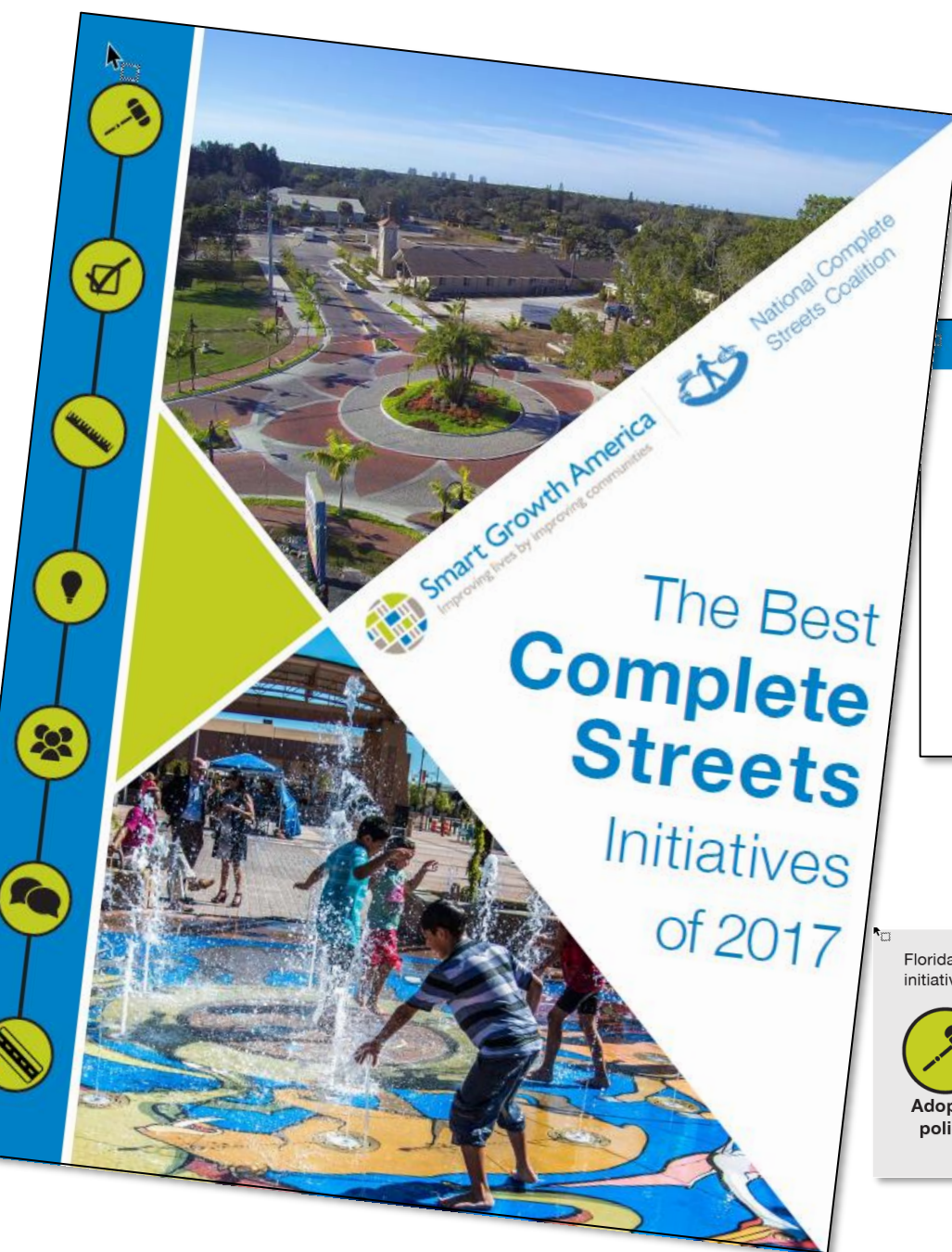
www.FLcompletestreets.com

FDOT Design Manual (FDM)

- Final manual posted November 1, 2017
- Implementation date January 1, 2018.
- Replaces Plans Preparation Manual

Award Winning!





BEST COMPLETE STREETS INITIATIVES OF 2017

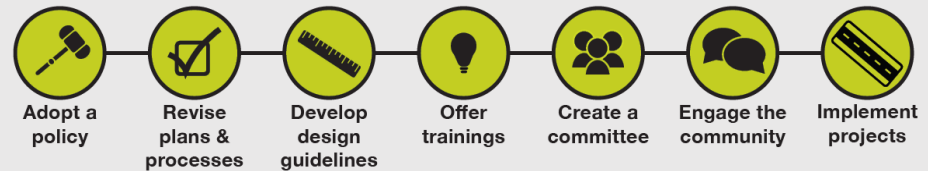


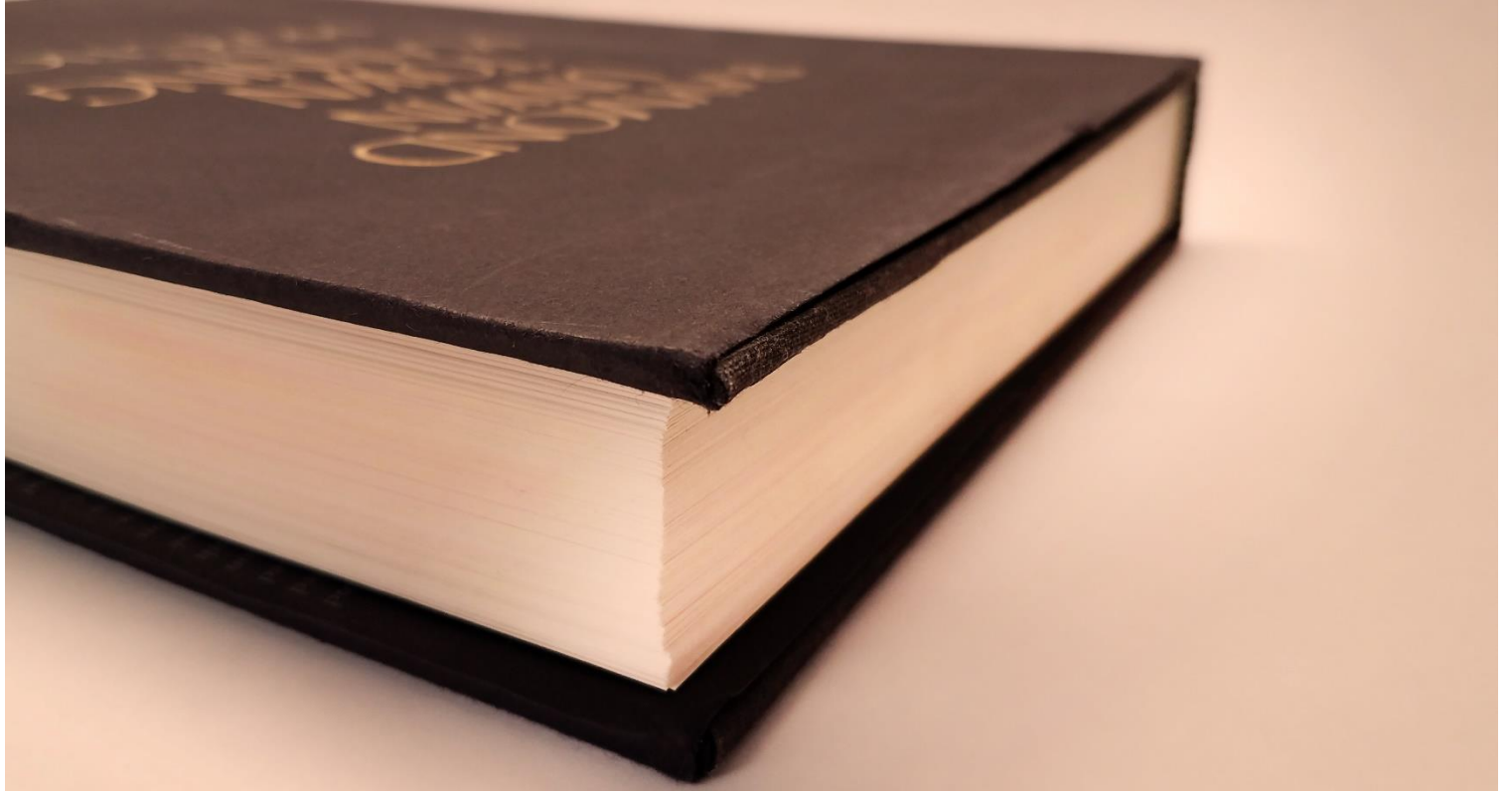
Location: Florida
Initiative: FDOT Design Manual



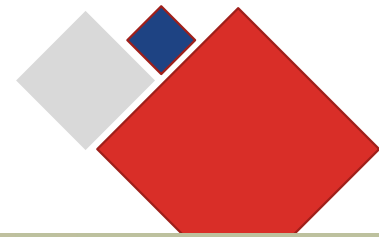
Context-sensitive street typology. Image courtesy of FDOT.

Florida has implemented all seven key implementation steps that lead to lasting, successful Complete Streets initiatives:

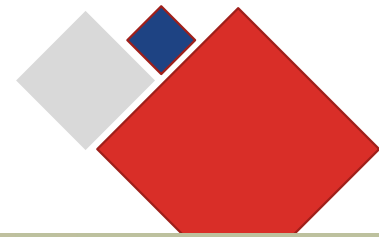




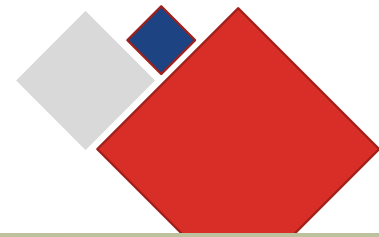
LAND USE & TRANSPORTATION STORY



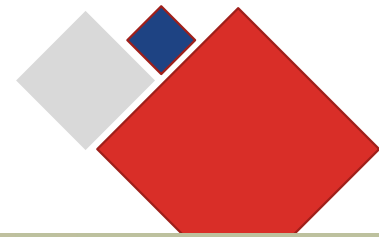
Source: Graphic from PennDOT Smart Transportation Training Materials



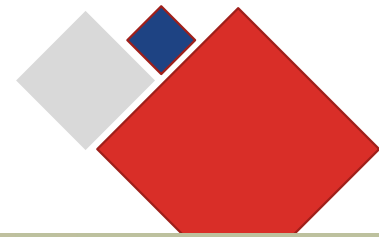
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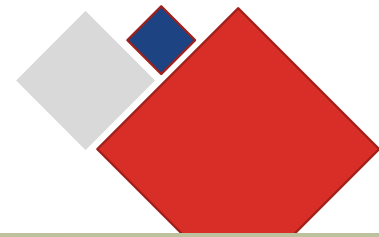
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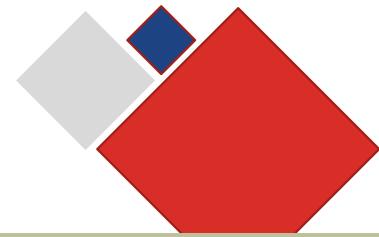
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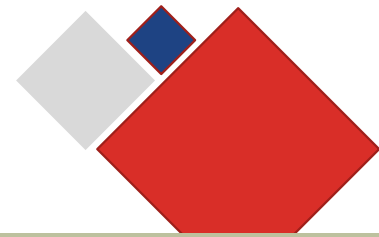
Source: Graphic from PennDOT Smart Transportation Training Materials

An aerial photograph of a suburban landscape. The image shows a mix of residential housing, including single-family homes and some larger commercial or industrial buildings. There are several parking lots, some of which appear to be partially flooded or have standing water. A major road runs vertically through the center of the image. The text 'Now What?' is overlaid in a large, blue, sans-serif font, slanted diagonally across the middle of the image.

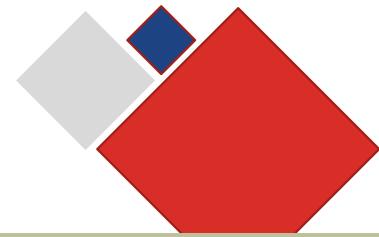
Now What?



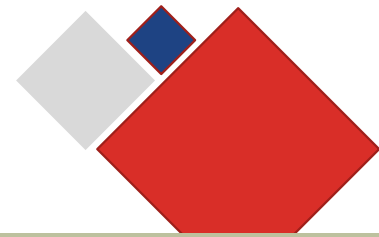
Source: Graphic from PennDOT Smart Transportation Training Materials



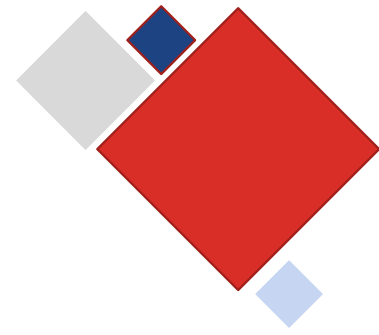
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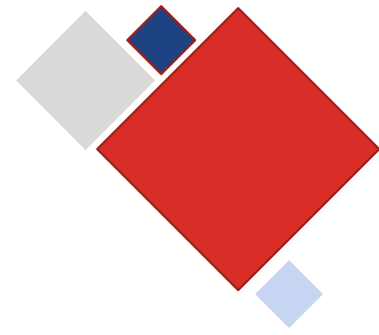
Source: Graphic from PennDOT Smart Transportation Training Materials



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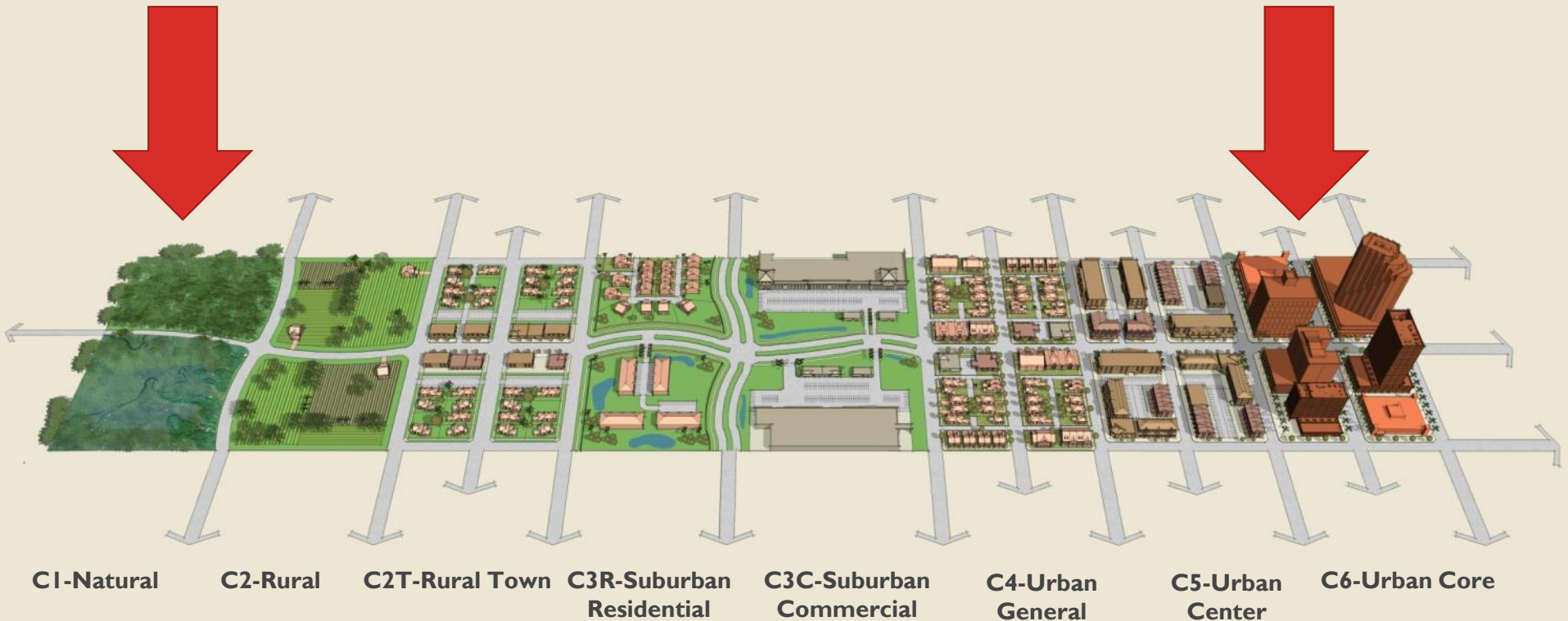


Fundamentally,
FDOT's **Complete Streets**
Approach is about **linking**
land use & transportation
decisions/investments.



It is about putting
the right street
in the right place.

What are the FDOT Context Classifications?



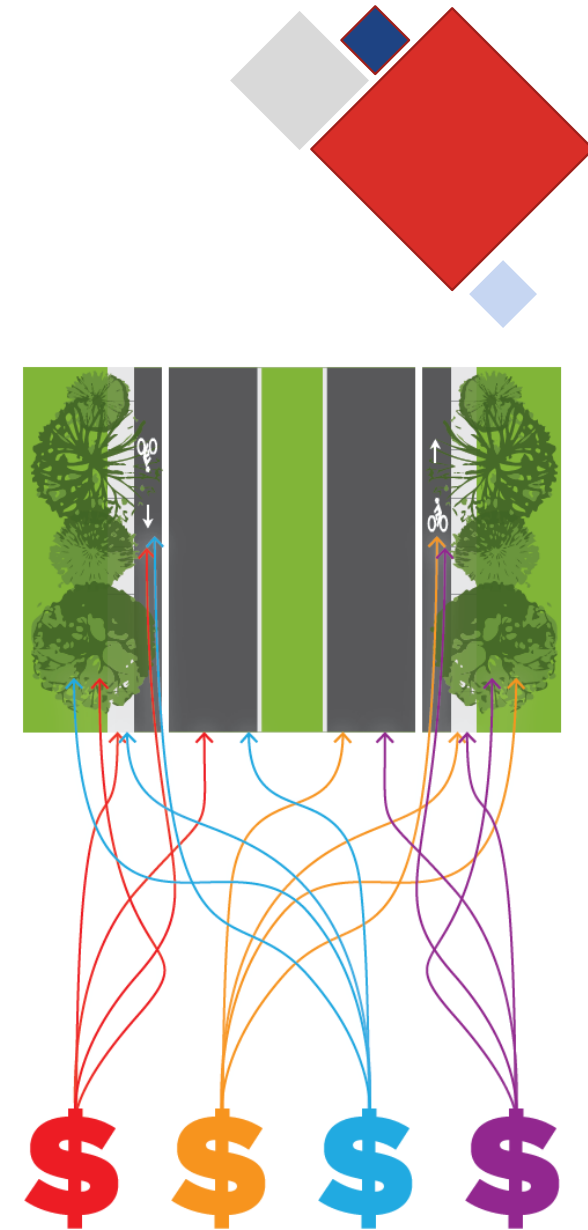
RELATIONSHIP TO FDOT DESIGN MANUAL

- On-street parking – may be acceptable in C2T, C4, C5, and C6 if supported by codes and regulations
- Bulb-outs – not required, but may be applied in appropriate contexts
- Street Trees – not required, but lower speeds permit closer placement to face of curb. Clear sight triangles still apply.
- Sidewalks – 6' standard width, but wider in C5 and C6 where possible
- Application of FDM criteria also influenced by plans, codes, and regulations

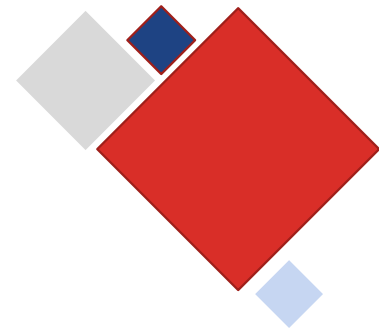


RELATIONSHIP TO RRR

- RRR projects have a very short time frame (3 years or less)
- Criteria in FDM will be used to the extent possible
- Will not move curb or buy ROW
- Get ready for RRR – start early with your own planning
- Support RRR with other project funding (goes with)
- We may have to miss opportunities on early/current projects

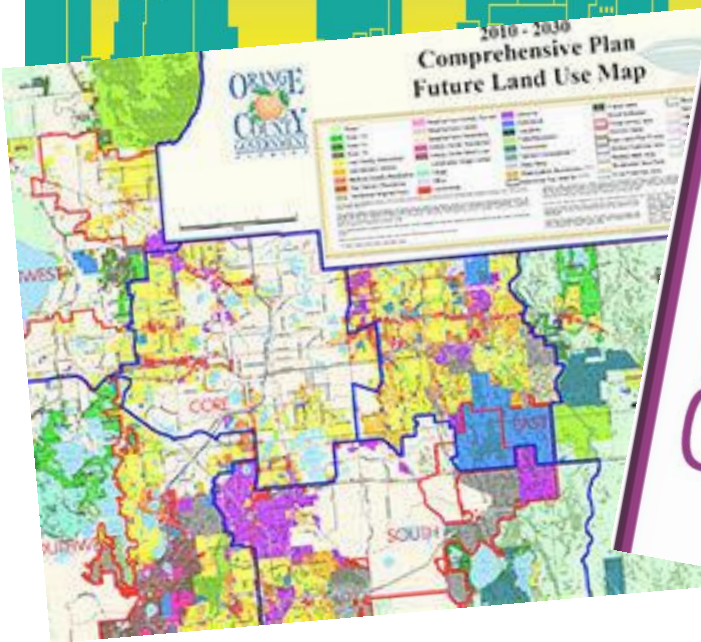
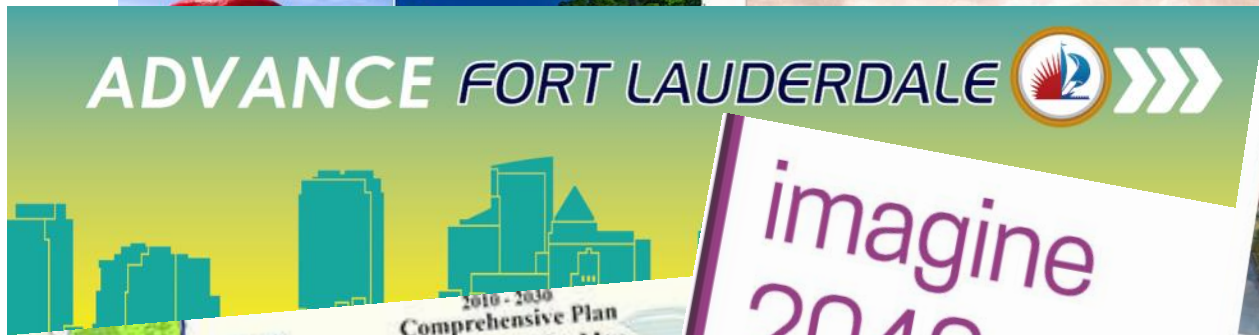
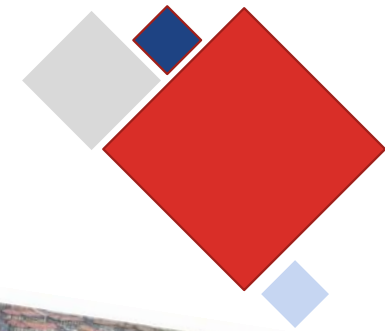


WHO DETERMINES CONTEXT CLASSIFICATION?

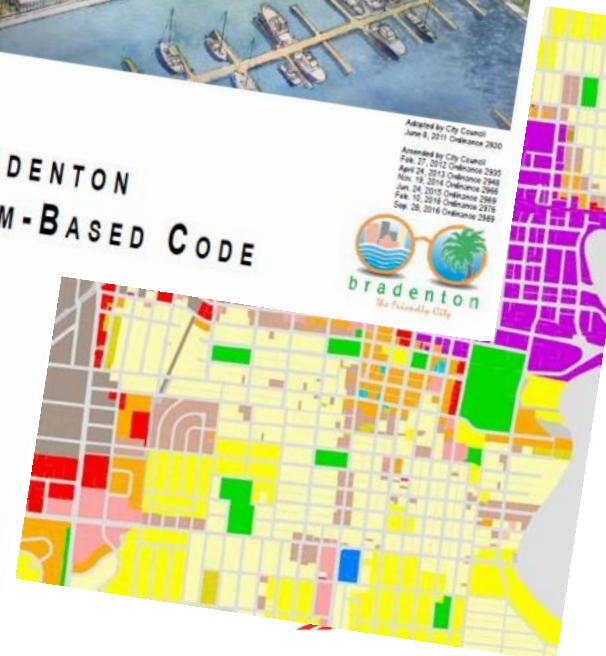


- District Staff
 - District can assign staff to oversee context classification evaluation
 - Multiple offices/groups should be involved
 - On projects where FDOT currently coordinates with local governments, FDOT should continue to coordinate with local governments to calibrate context classification
 - Local form-based codes and zoning can be used to inform FDOT's context classification determination
- Final determination is made by FDOT

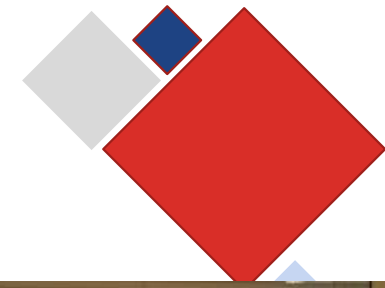
WHERE DOES FDOT LOOK TO UNDERSTAND COMMUNITY VISION?



BRADENTON
FORM-BASED CODE



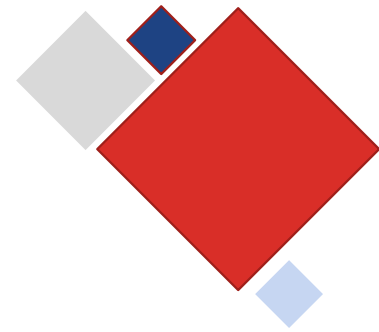
WHAT TO BRING TO CONTEXT CLASSIFICATION DISCUSSIONS



- Clear vision based on:
 - Recently permitted development projects
 - Programmed infrastructure plans for new local streets, bike and pedestrian facilities
 - Adopted plans vetted through community discussion
 - Land development code
 - Public participation process
- Familiarity with FDOT Context Classification system and design criteria
- An open mind!



Questions



www.FLcompletestreets.com

DeWayne Carver, AICP
dewayne.carver@dot.state.fl.us



“Complete Streets and Local Government”

Billy L. Hattaway, P.E. Transportation Director



Florida's Challenges with Safety:

- Dangerous by Design 2016
 - 8 of top 10 in Florida
 - Total Crashes: 395,813 15% increase (2014-2016)
 - Injuries: 254,166 11% increase
 - Fatalities: 3,178 27% increase
 - Pedestrian Fatalities: 667 10% increase
 - Bicyclist Fatalities: 140 3% increase

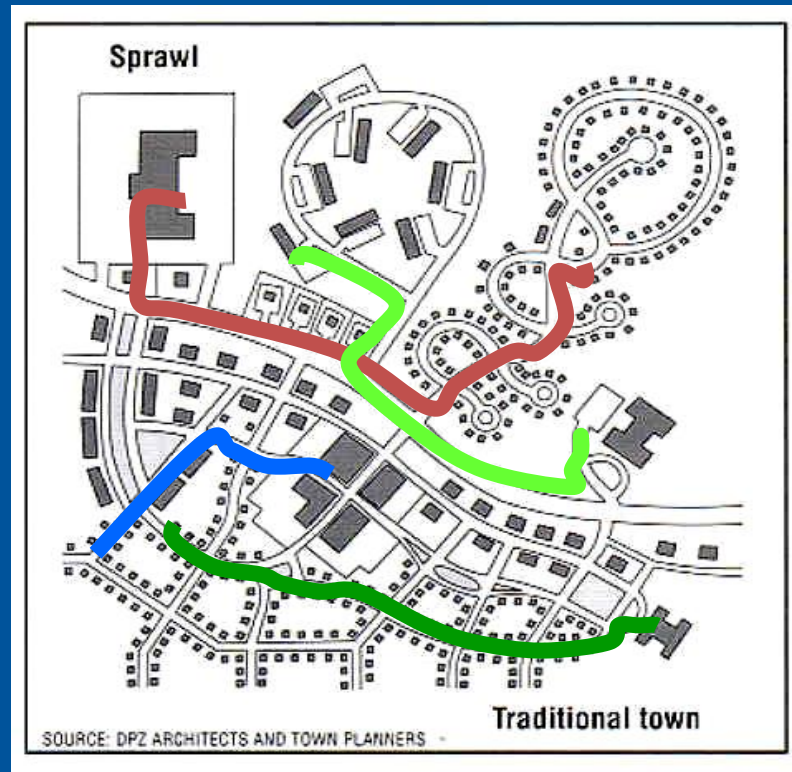


How We Got Here

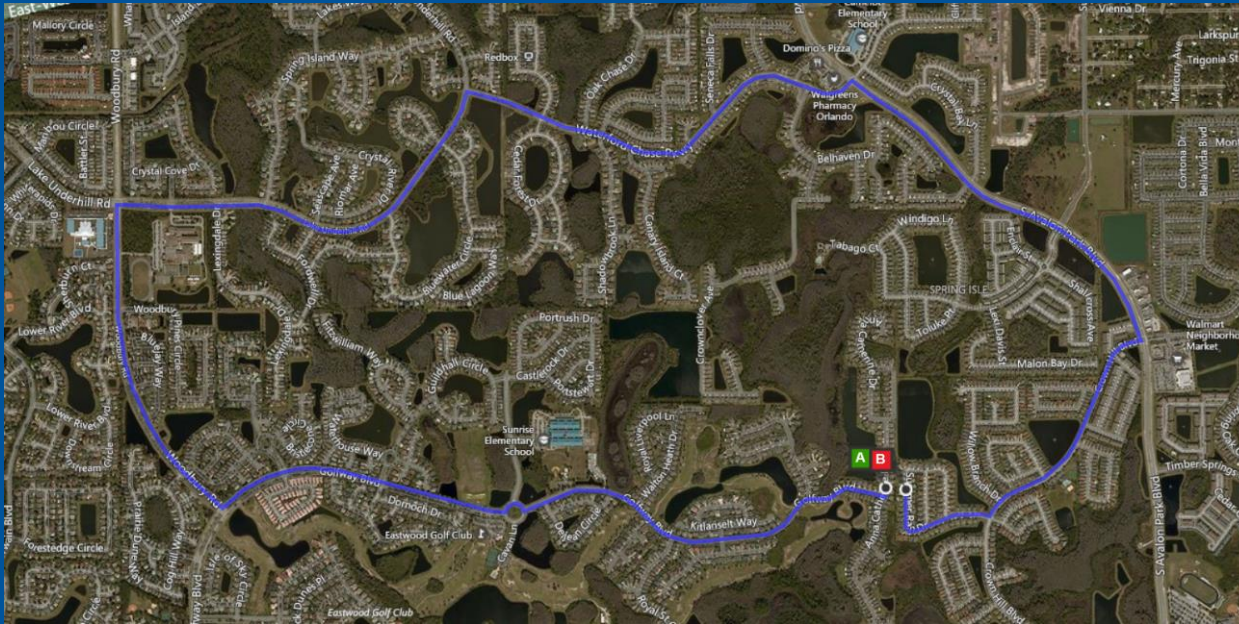


Fowler Ave, Tampa

Land Development Patterns



Land Development Patterns

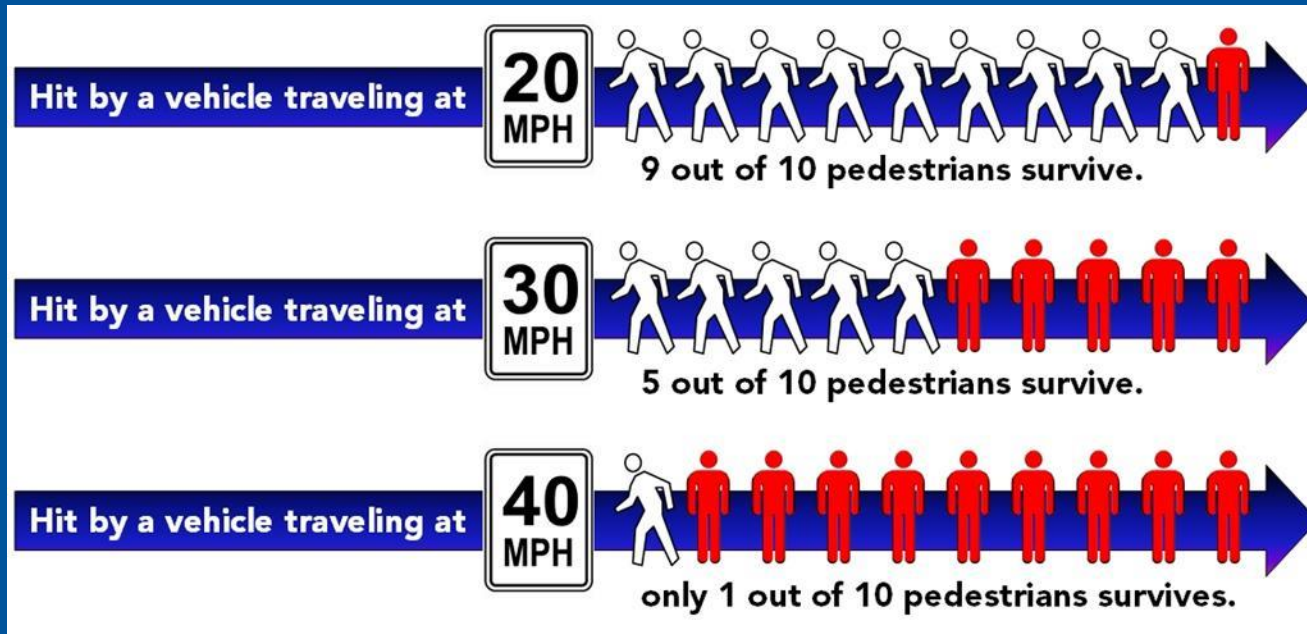


1585 Anna Catherine Dr, Eastwood Park, Orange County, FL
13415 Summer Rain Dr, Avalon Park, Orange County, FL
7.1 mile drive, yet only 70' apart

Land Development Patterns



The Implications of Speed



Roundabouts vs Traffic Circles

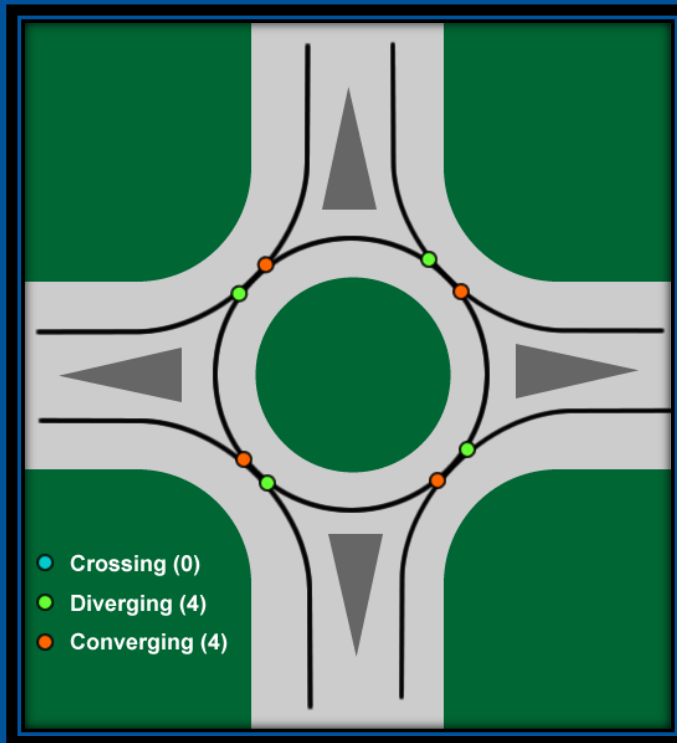


Roundabouts/Road Diets

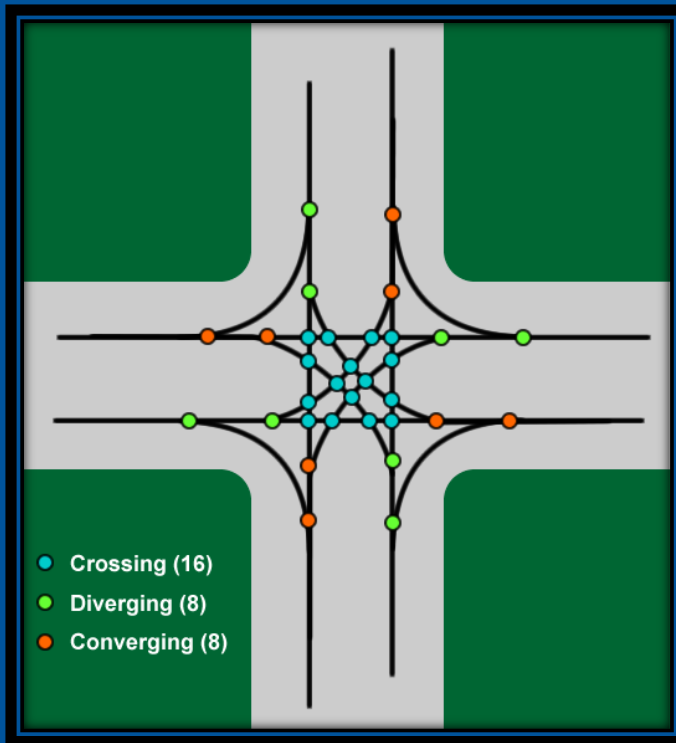
- Roundabout Benefits
 - ~ 90% reduction in fatalities
 - ~ 76% reduction in injuries
 - ~ 35% reduction in all crashes
 - 75% More Efficient (less delay)
 - Maintenance and operations (no signals)
- Road Diet Benefits
 - 40-50% less crashes



Vehicle Conflicts



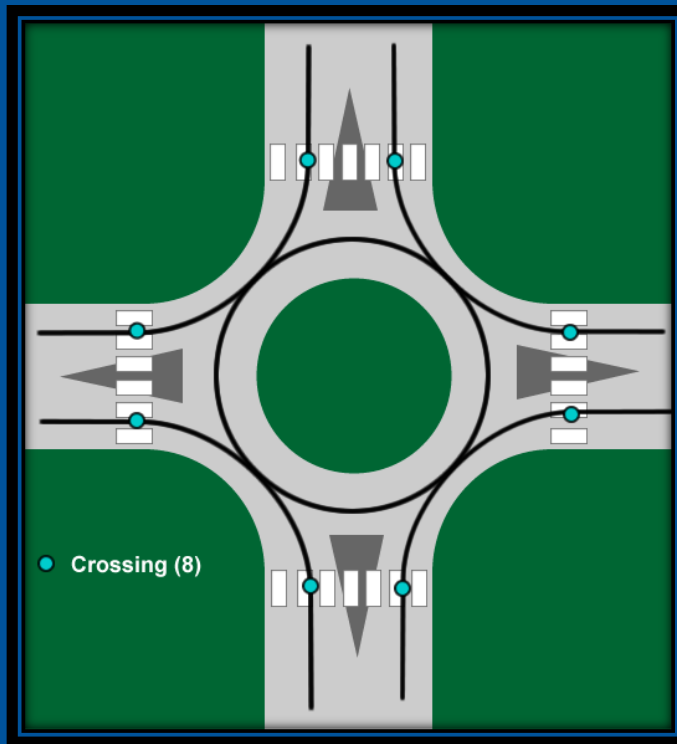
8 Conflict Points



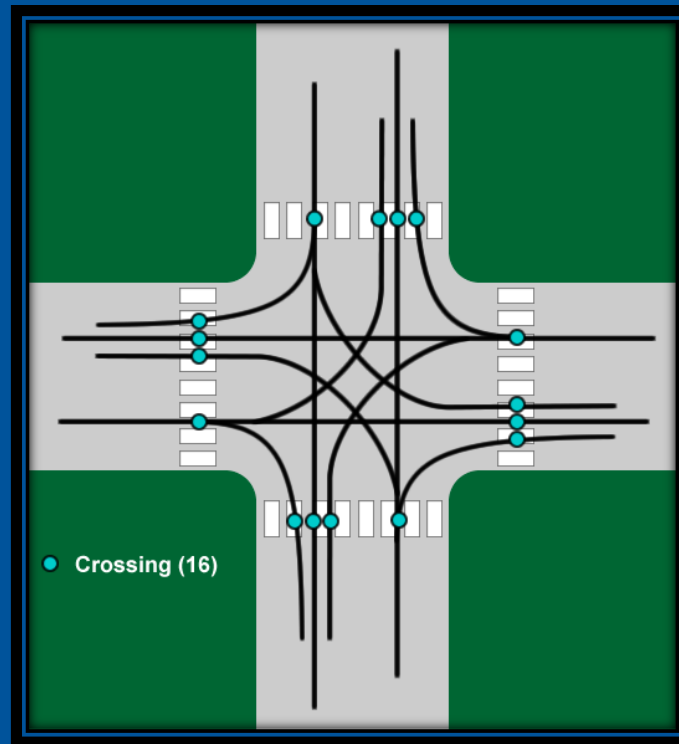
32 Conflict Points



Pedestrian/Vehicle Conflicts



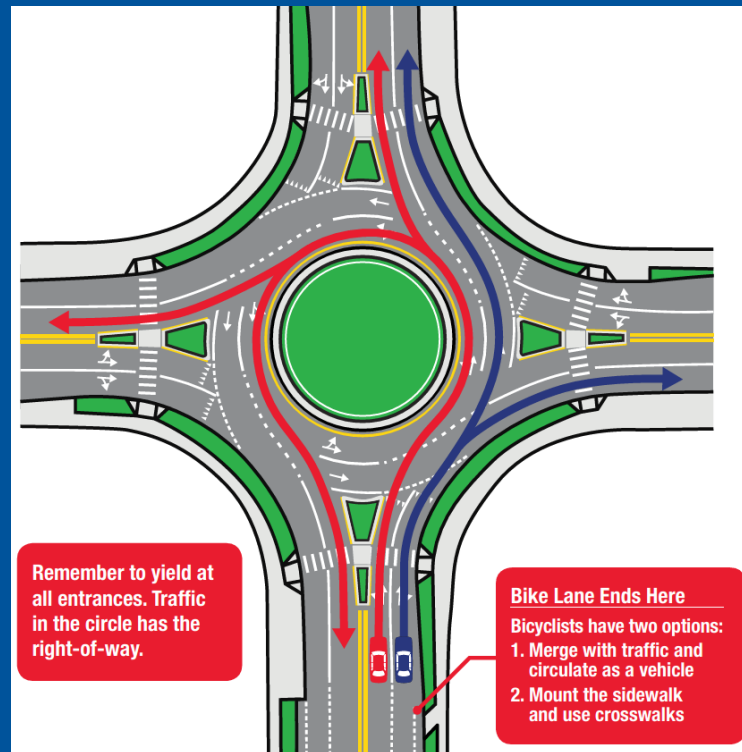
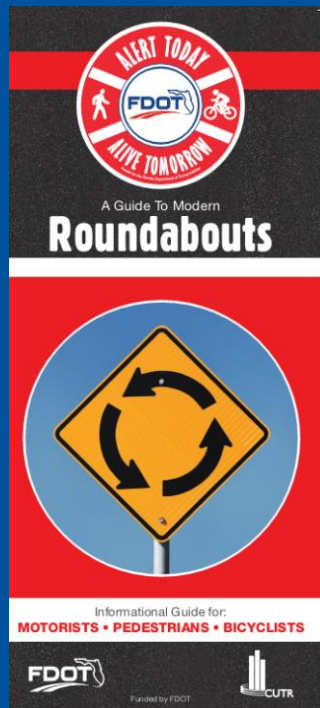
8 Conflict Points



16 Conflict Points



Education



Modern Roundabout/Road Diets



Orlando: A History of Leadership

- 1,100 Acres
- 250 Acres of Lakes
- **32 Street Connections**
- 18,000 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



Baldwin Park



Orlando: A History of Leadership



Central Avenue



Orlando: A History of Leadership



Central Avenue

City of Orlando's 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
- **National Complete Streets Coalition**
 - Safe Streets Academy
- **Street Network/Land Development Initiative**



City of Orlando Safety Initiatives

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



Pedestrian Safety and Enhancement Initiatives

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

Colonial Overpass Project: completes a multi-use trail through Downtown Orlando.

Pedestrian Crossing Enhancement Program:

3 rectangular rapid flashing beacon (RRFB's) pedestrian crossings installed.
Experiencing driver yield rates of up to 45%.



Midblock Crossings



Rectangular Rapid Flashing Beacons (RRFB)

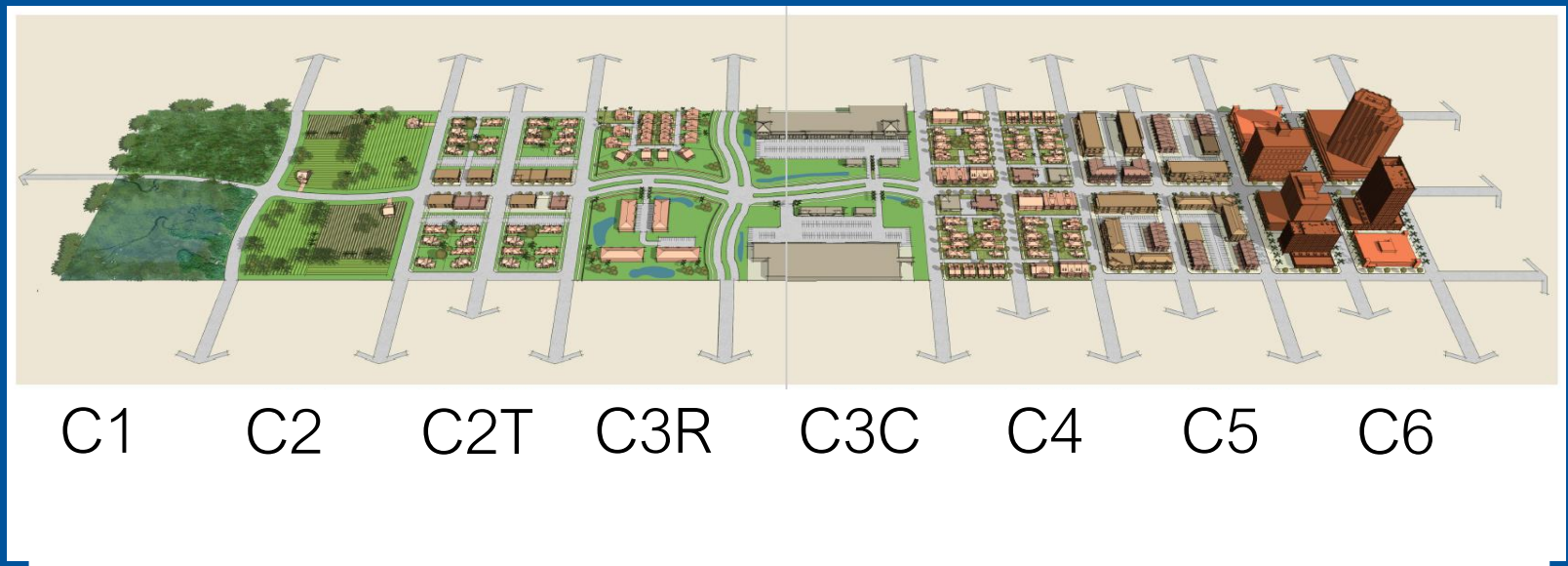


High intensity Activated crossWalk “Beacon” (HAWK)



State and Local Partnerships

Context Classification System



State and Local Partnerships

Design Speed

| Context Classification | | Allowable Design Speed Range (mph) |
|------------------------|---------------|------------------------------------|
| | | FDM |
| C1 | Natural | 55-70 |
| C2 | Rural | 55-70 |
| C2T | Rural Town | 25-45 |
| C3 | Suburban | 35-55 |
| C4 | Urban General | 30-45 |
| C5 | Urban Center | 25-35 |
| C6 | Urban Core | 25-30 |

FDM – Florida Design Manual



State and Local Partnerships

Lanes Widths for Travel Lanes

| Context Classification | | Minimum Lane Widths (ft) |
|------------------------|---------------|--------------------------|
| | | FDM |
| C1 | Natural | 12 |
| C2 | Rural | 12 |
| C2T | Rural Town | 11 |
| C3 | Suburban | 10 |
| C4 | Urban General | 10 |
| C5 | Urban Center | 10 |
| C6 | Urban Core | 10 |

25-35 mph



State and Local Partnerships

Sidewalk Widths

| Context Classification | | Standard Sidewalk Widths |
|------------------------|---------------|--------------------------|
| | | FDM |
| C1 | Natural | --- |
| C2 | Rural | --- |
| C2T | Rural Town | 8 feet |
| C3 | Suburban | 6 feet |
| C4 | Urban General | 8 feet |
| C5 | Urban Center | 10 feet |
| C6 | Urban Core | 12 feet |



City of Orlando's Future Initiatives

- Context Classification of City Corridors
- Conversion of One-Way Streets
- Increased Use of Modern Roundabouts
- Expansion of Cycle Tracks/Trails
- Integrated Land Use/Corridor Studies



Robinson Street Corridor Study



Central Business District – Concept Development



Alternative 1B

Lake Eola District – Concept Development



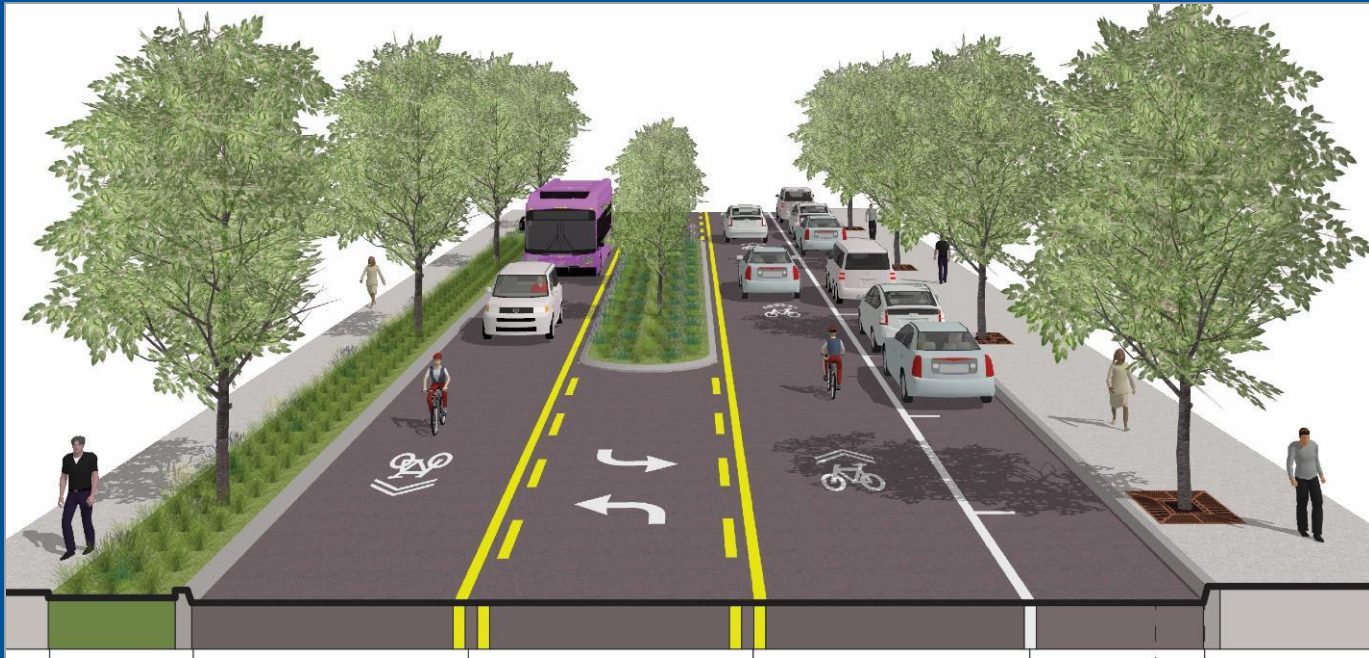
Alternative 1B

Neighborhood District – Concept Development



Alternative 1

Milk District – Concept Development



Alternative 2B

Making a Street Complete



QUESTIONS?

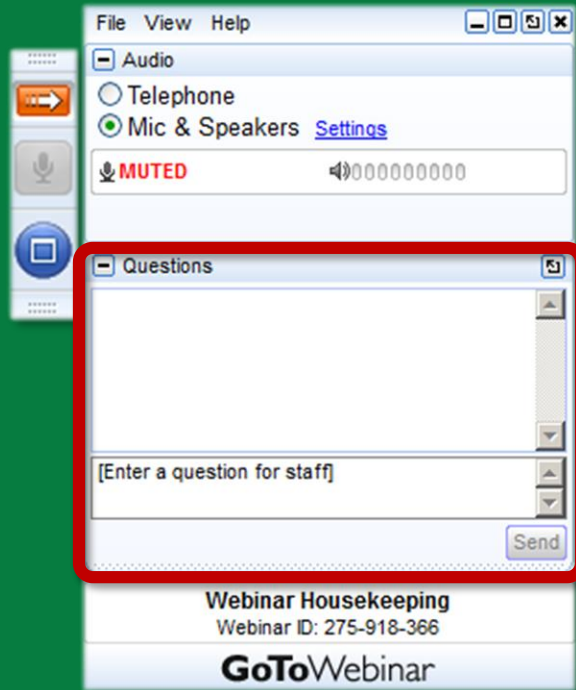
Billy L. Hattaway, P.E. Transportation Director
billy.hattaway@cityoforlando.net



Questions and Answers

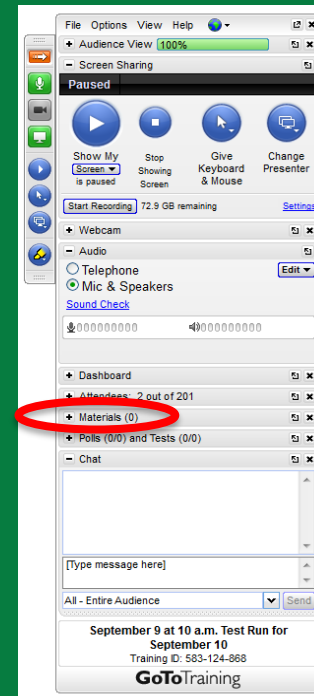
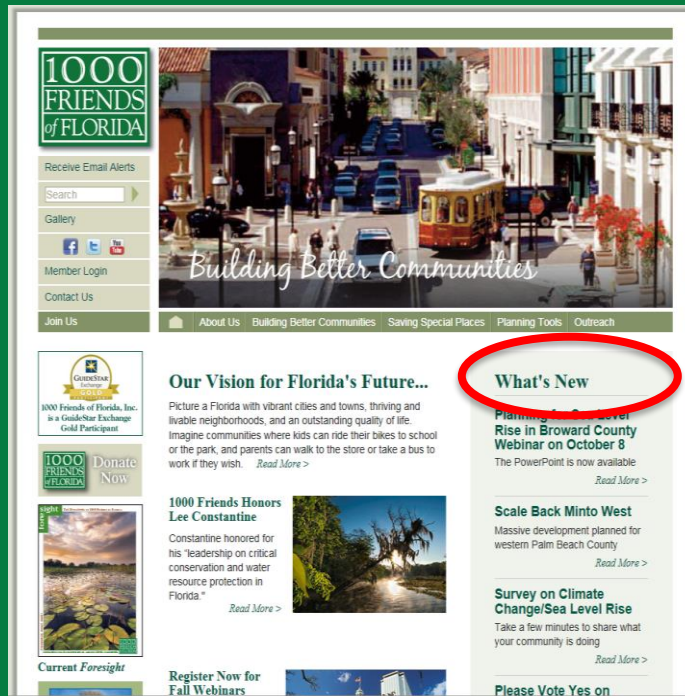


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- Please keep your questions succinct!
- Staff will ask the presenters questions, as time permits

The PowerPoint is available at www.1000friendsofflorida.org



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- 1.5 AICP CM for Planners (#9145908)
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