## TRANSIT ORIENTED DEVELOPMENT TOOLBOX:

REGIONAL & STATEWIDE COORDINATION EFFORTS

### TOD TOOLBOX: Florida TOD Guidebook

### Kim DeLaney, Ph.D.

Growth Management Coordinator

Treasure Coast Regional Planning Council www.tcrpc.org



### TOD TOOLBOX: Florida TOD Guidebook

**PURPOSE:** Provide statewide guidance to promote, define, and advance transit-oriented development in appropriate locations across the State of Florida

**AUDIENCE:** Local governments (staff & elected officials), agencies & organizations, private sector, and the general public



## Why Should I Care About Transportation and Land Use?







### Report: I-95 In Fla. Most Dangerous Roadway In Country

662 Fatal Accidents, 765 Total Fatalities Occurred On I-95 From 2004 To 2008





### Report: I-95 In Fla. Most Dangerous Roadway In Country

662 Fatal Accidents, 765 Total Fatalities Occurred On I-95 From 2004 To 2008

### Predictability?

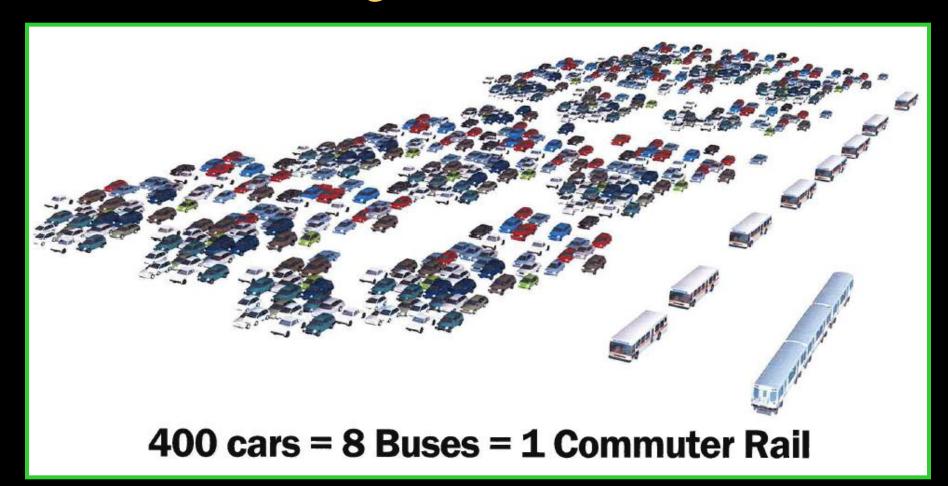




"Let our advance worrying become advance thinking and planning."
-- Winston Churchill



### Is Green on the Agenda?



Taking Transit to Work is the Best Way to Reduce Household Carbon Footprint

Science Applications International Corporation (2007)



## A Paradigm Shift

## What is TOD ... Transit Oriented Development

- Walkable "villages" located at & around transit stations in a ½ to ½ mile ring
- Contains broad mix of uses (such as residential, office, retail, entertainment, civic/cultural)
- Tie-into local transit (Palm-Tran, trolleys)
- Densities appropriate to context
- More compact than surrounding areas
- Built around civic plazas & community spaces
- Appropriate treatment of parking (shared, reduced & structured)



### TOD vs. TAD



 Transit <u>Oriented</u> Development

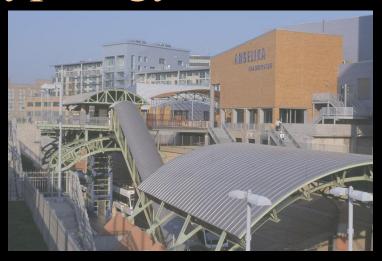
VS.

- Transit Adjacent Development
  - Auto-oriented uses
  - Large surface parking lots
  - Suburban office campuses
  - Big-box format retail
  - Pedestrian unfriendly

### TOD "Typology"



City Center



Town Center



Neighborhood Station



**Employment Center Station** 

### TOD "Typology"



Local Park-n-Ride



Airport / Seaport



Regional Park-n-Ride



Special Event Venue

### Different Transit "Technologies"

















#### Florida Transit-Oriented Development









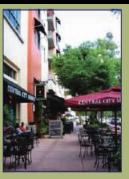




### Florida TOD Framework

(PHASE I)







### A FRAMEWORK FOR TRANSIT ORIENTED DEVELOPMENT IN FLORIDA

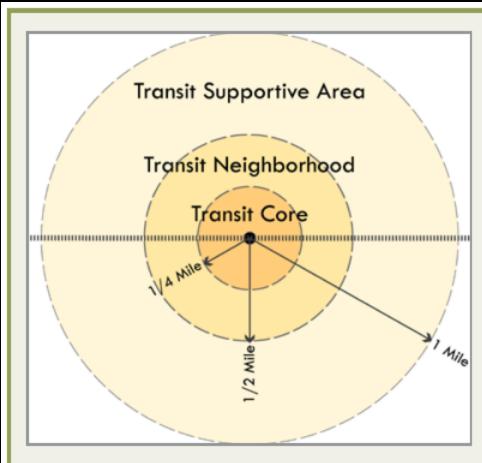
Prepared for:

Florida Department of Transportation and Department of Community Affairs

**MARCH 2011** 



## Florida TOD "Framework" TOD Overview



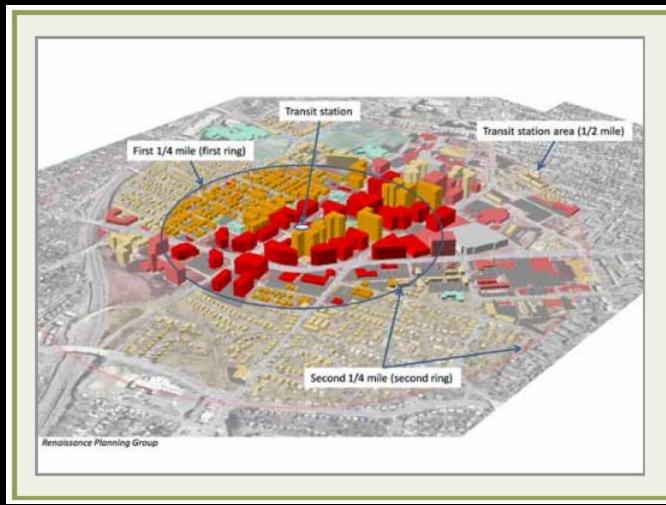
Station Area: one-half mile or approximately 500 acres around transit station composed of transit core and transit neighborhood

Transit Core: first-quarter mile or approximately 125 acres around transit station

Transit Neighborhood: second-quarter mile or approximately 375 acres surrounding transit core

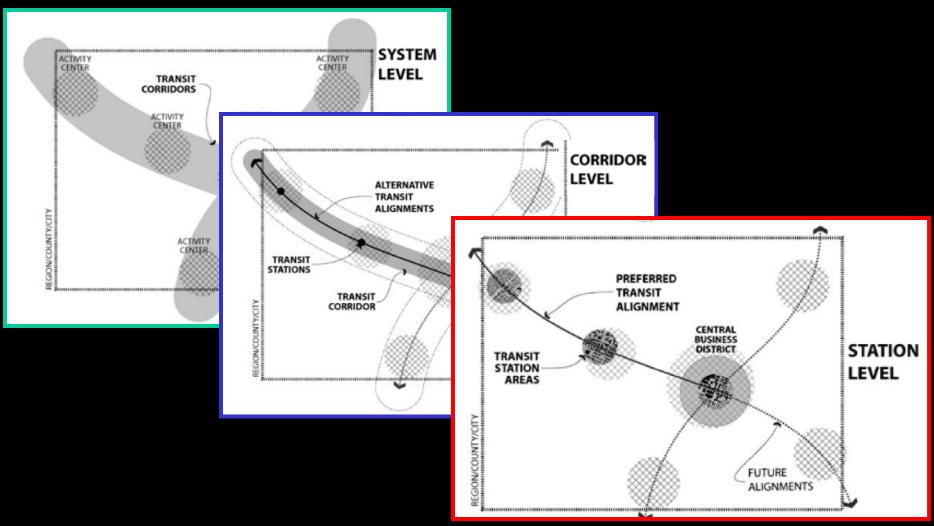
Transit Supportive Area: one mile around transit station

### <u>Florida TOD "Framework"</u> Illustrative Examples



More information on the Ballston Metro Station and associated Rosslyn-Ballston Corridor is provided with Figure 11 in Section 2.0.

## Florida TOD "Framework" TOD Planning Scale



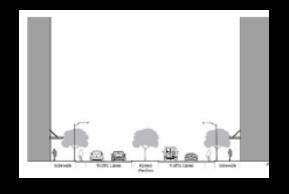
Available on www.fltod.com

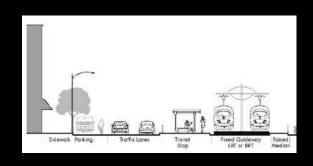
## Florida TOD "Framework" TOD Typology

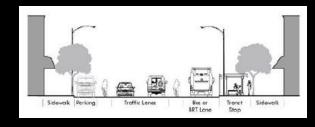
#### REGIONAL CENTER

#### COMMUNITY CENTER

#### NEIGHBORHOOD CENTER













Available on www.fltod.com

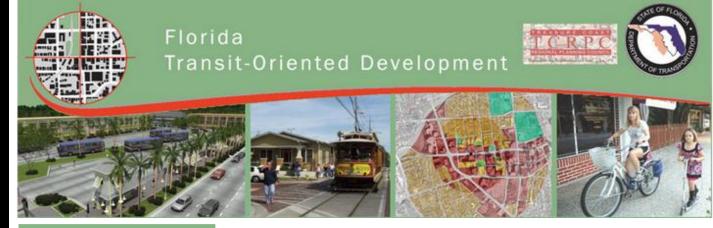


# Florida TOD Guidebook & Training

(PHASE II)

Research & Bibliography
TOD Typology
Florida Place Type Analysis
Model Conceptual Plans
Model Comp. Plan Policies
& LDRs

**Guidebook Development**Statewide Training



#### Home

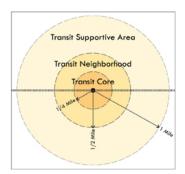
Phase I - TOD Framework
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Framework Document
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Project Schedule
Research
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Pilot Locations
Model Policies/Codes
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Local Agency Training
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#### What is TOD?

In simplest terms, Transit-Oriented Developments (TODs) are compact, moderate to high intensity and density, mixed use areas within one half mile of a transit stop or station that is designed to maximize walking trips and access to transit. They also are characterized by streetscapes and an urban form oriented to pedestrians to promote walking trip to stations and varied other uses within station areas. One quarter-mile and one-half mile distances represent a 5 to 10 minute walk time, which is the amount of time most people are willing to walk to a destination. The most intense and dense development is typically located within the one quarter mile radius (transit core). Developments' intensities and densities gradually decrease out to the one-half mile radius (transit neighborhood) and the one mile radius (transit supportive area). The transit core, the transit neighborhood, and the transit supportive area are depicted in the image below.



#### Florida's TOD Efforts

The Florida Department of Transportation is focusing on the development of TOD strategies and guidance to promote land use policies and designs to leverage statewide investments in multimodal transportation systems. Phase I of the TOD planning effort is complete with the publication of A Framework for TOD in Florida. Phase II is currently ongoing and involves the development of a Handbook containing model land use policies and land development codes in support of TOD. The Framework and Handbook are designed to be used in partnership with the FDOT to assist in promoting multimodal system planning and managing congestion on state roadways, especially on the Strategic Intermodal System (SIS). By focusing land use and urban design policies towards transit, local governments can help optimize future transit investments and potential transit ridership.

#### Contact:

Florida Department of Transportation

Diane Quigley, Transit Planning Administrator

### Preliminary TOD Typology

#### PROPOSED TYPOLOGY ~ STATION AREA TYPES

(VARY BY TYPE OF TRANSIT; INCLUDES BOTH BUS & RAIL)

Rural	Suburban	Urban
		Urban Downtown (City Center)
		(local, commuter, intercity)
(Rural) Town Center	Commuter (Suburban) Town Center	Urban Town Center
(local, commuter)	(local, commuter, intercity)	(local, commuter, intercity)
	Suburban Neighborhood Station	Urban Neighborhood Station
	(local, commuter)	(local, commuter)
	Suburban Employment Center	Urban Employment Center
	(local, commuter)	(local, commuter)
	Local Park-and-Ride	Local Park-and-Ride
	(local, commuter)	(local, commuter)
	Regional Park-and-Ride	
	(local, commuter)	
	Special Event Venue *	Special Event Venue *
	Airport/Seaport *	Airport/Seaport *



#### Florida Transit-Oriented Development













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#### What is TOD?

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## Phase I - TOD Framework Project Background Framework Document

The Florida Department of Transportation is focusing on the development of TOD strategies and guidance to promote land use policies and designs to leverage statewide investments in multimodal transportation systems. Phase I of the TOD planning effort is complete with the publication of A Framework for TOD in Florida. Phase II is currently ongoing and involves the development of a Handbook containing model land use policies and land development codes in support of TOD. The Framework and Handbook are designed to be used in partnership with the FDOT to assist in promoting multimodal system planning and managing congestion on state roadways, especially on the Strategic Intermodal System (SIS). By focusing land use and urban design policies towards transit, local governments can help optimize future transit investments and potential transit ridership.

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242 Documents

(and counting) (1.9 Gigabytes)

Home

Phase I - TOD Framework Project Background Framework Document Phase II - TOD Handbook Project Background Project Schedule

Research

Case Studies Place Type Analyses **Pilot Locations** Model Policies/Codes Florida TOD Guidebook Local Agency Training Links

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**General TOD** 

**Sustainability** 

**Marketability** 

**Transportation** 

Housing

**Bus Rapid Transit** 

Florida DOT

**About Form-Based** Codes

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#### **Place Type Analyses**

#### Urban

Miami

<u>Orlando</u>

<u>Tallahassee</u>

West Palm Beach

#### Suburban

East Naples
Daytona Beach

<u>Plantation</u>

Pasco

#### Rural

Sebring



Interactive Map of Place Type Analyses

### Place Type Analysis

Aerial

West Palm Beach Example

West Palm Beach

#### **Existing Conditions**

415.53

1/2 mile

Revised 6/27/11 0.5 Miles 1,000 1,320 2,640 ● Transit Station ( )1/4 mi Radius \ \_ / 1/2 mi Radius 1 inch = 1,000 feet

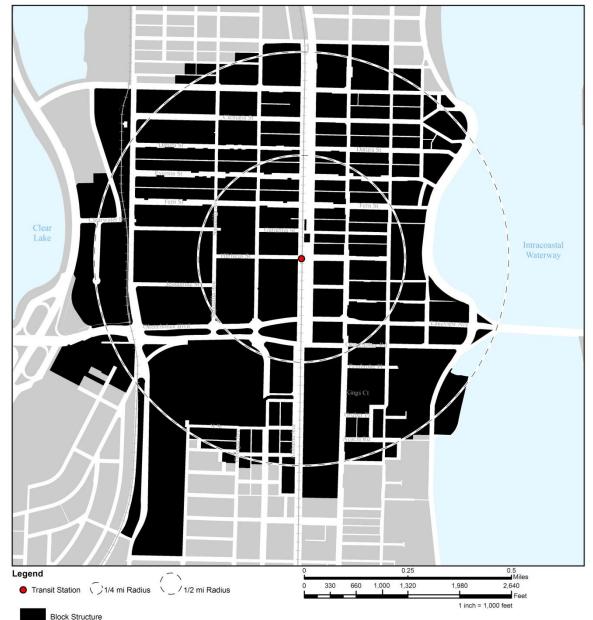
### Place Type Analysis

Block Structure

West Palm Beach Example West Palm Beach

Block Structure

Revised 6/27/11



### Place Type Analyses

Figure Ground

West Palm Beach Example

West Palm Beach

**Figure Ground** 

Buildings

Revised 6/27/11 Lake Waterway 0.5 1,000 2,640 Transit Station ()1/4 mi Radius / 1/2 mi Radius 1 inch = 1,000 feet

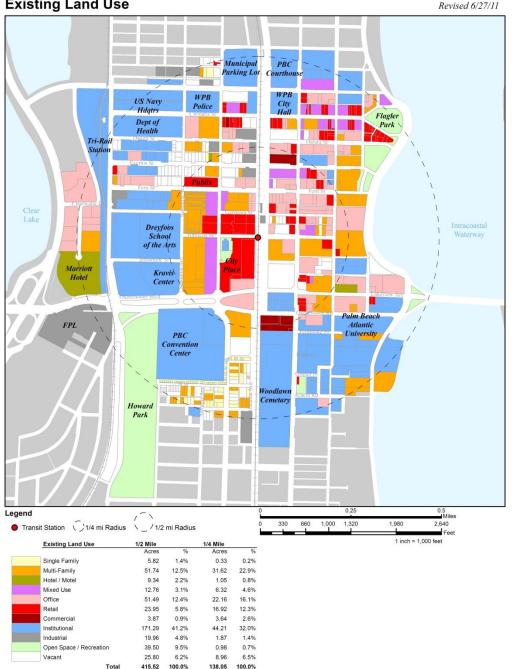
### Place Type Analysis

Existing Land Use

West Palm Beach Example

West Palm Beach

**Existing Land Use** 



### Place Type Analysis

Future Land Use

West Palm Beach Example West Palm Beach

Special Impact Zone / Industrial

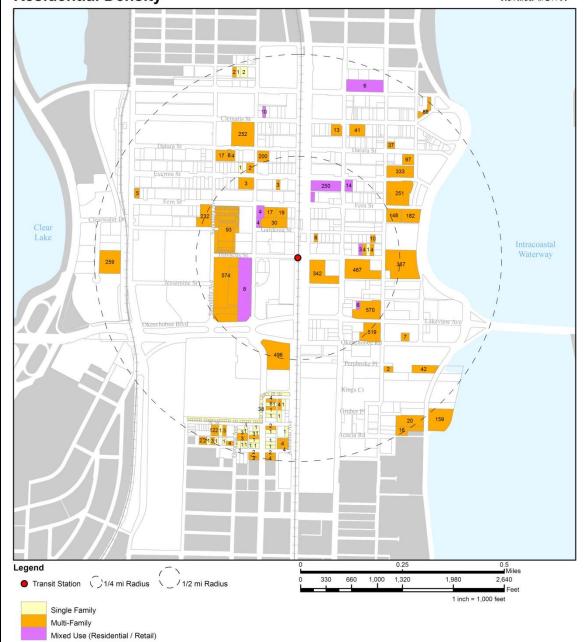
**Future Land Use** Revised 6/27/11 Waterway Atlantic University Cemetary 0.5 Miles 1,000 1,320 660 2 640 ● Transit Station ( )1/4 mi Radius \ / 1/2 mi Radius 1 inch = 1,000 feet Single Family Multifamily Urban Central Business District Commercial Incentive District Community Service Industrial

### Place Type Analyses

Residential Density

West Palm Beach Example West Palm Beach

**Residential Density** 



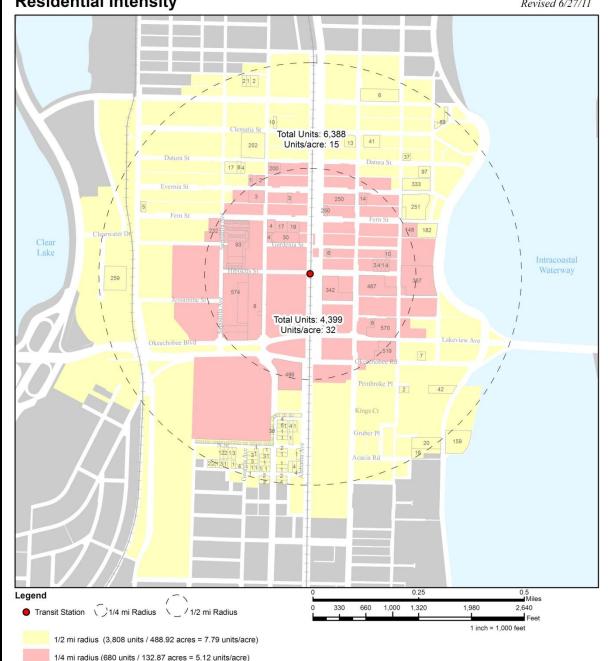
### Place Type Analyses

### Residential Intensity

West Palm Beach Example

West Palm Beach

#### **Residential Intensity**



### Place Type Analysis

### Employment Intensity

West Palm Beach Example West Palm Beach

**Employment Intensity** 



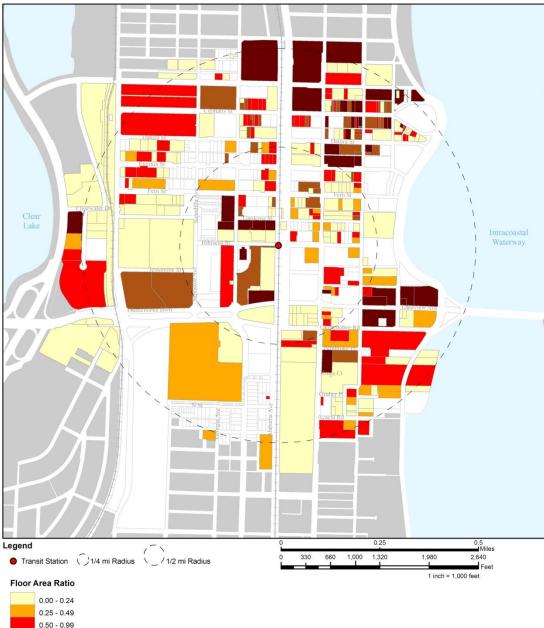
### Place Type Analyses

## Commercial Intensity

West Palm Beach Example West Palm Beach

#### **Commercial Intensity**

1.00 - 1.99 2.00 - 6.82



### Place Type Analyses

### Public Transit Intensity

West Palm Beach Example West Palm Beach

**Public Transit Intensity** 



### Place Type Analysis



Tallahassee
Block Structure



Plantation
Block Structure



Orlando
Block Structure



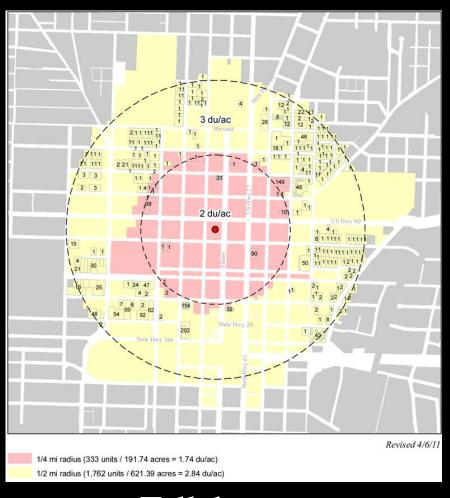
Tallahassee Figure Ground

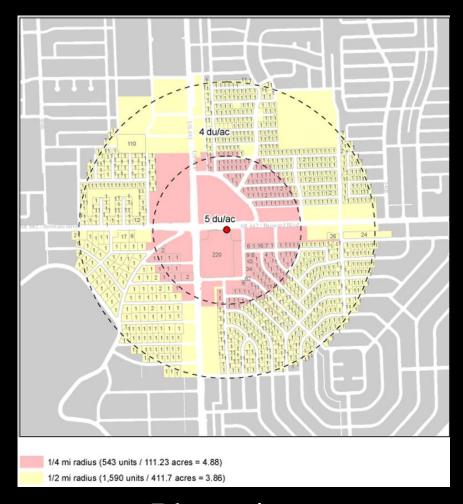


Plantation Figure Ground



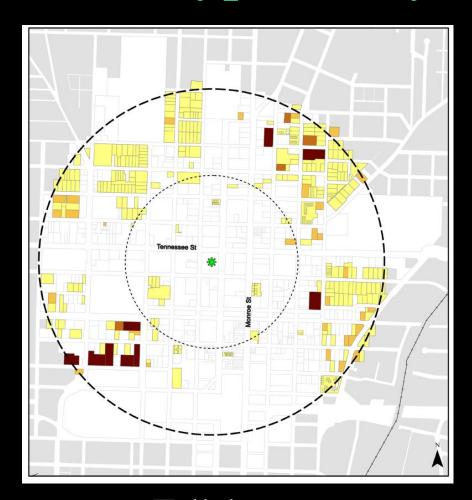
Orlando Figure Ground

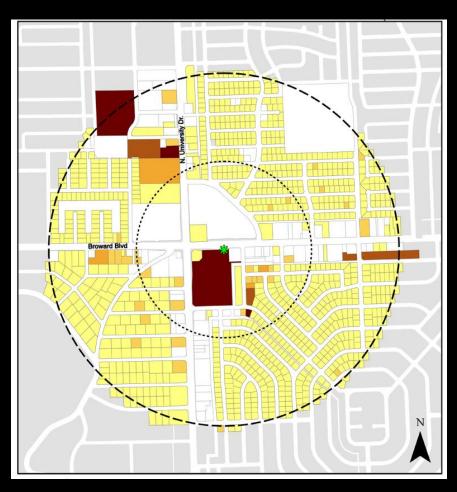




Tallahassee Residential Densities Plantation
Residential Densities

Comparative Analysis





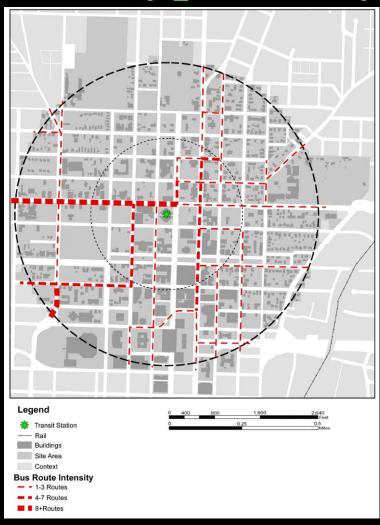
Tallahassee Residential Intensities



Plantation

**Residential Intensities** 

Comparative Analysis



Tallahassee
Transit Intensities

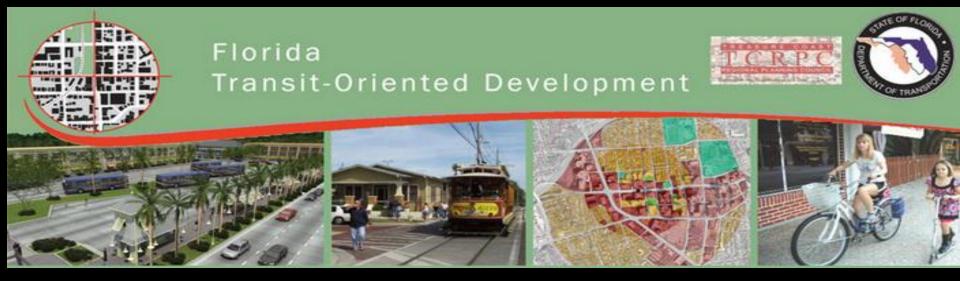


Plantation
Transit Intensities
Comparative Analysis

## Completing the Analysis

URBAN	SUBURBAN	RURAL
Miami	Daytona Beach	Sebring
Orlando	East Naples	
Tallahassee	Pasco	
West Palm Beach	Plantation	

Provide Greatest Statewide Coverage Possible



# Florida TOD Guidebook & Training

(PHASE II)

TOD Typology
Florida Place Type Analysis
Model TOD Conceptual Plans
Model Comp. Plan Policies & LDRs
Guidebook Development
Statewide Training

## TOD TOOLBOX: TBARTA TOD Resource Guide

#### Jennifer Willman, AICP

Project Manager/Land Use Coordinator

**JACOBS** 

www.jacobs.com

Tampa Bay Area Regional Transportation Authority www.tbarta.com

## TOD TOOLBOX: TBARTA TOD Resource Guide

**PURPOSE:** Discussion of a variety of TOD topics, and how they relate to the TBARTA region, and to land use and economic development criteria set by the Federal Transit Administration.

**AUDIENCE:** Government agencies, the development community, non-profit organizations, and citizens.



#### **TBARTA Vision**

A Balanced, Multimodal System













#### **TBARTA Land Use Working Group**

#### **Purpose**

- Provide input to the Regional Transportation Master Plan's technical team about land use planning issues, relating to:
  - Existing land use patterns
  - Long-range land use plans
  - Growth projections
  - Affect of hypothetical shifts in growth (land use scenarios)



#### Goals

- Create a common language for transportation and land use planners
- Understand other regional efforts like One Bay
- Learn how Transit Oriented Development (TOD) can be successful
- Understand importance of FTA New Starts Evaluation Process
- Develop TOD Resource Guide



#### TBARTA's Role in TOD

- Enabling legislation provides that TBARTA will coordinate with local governments for TOD.
  - "The authority shall coordinate and consult with local governments on transit or commuter rail station area plans that provide for compact, mixed-use, TOD that will support transit investments and provide a variety of workforce housing choices, recognizing the need for housing alternatives for a variety of income ranges."
- TBARTA's role is convener and facilitator of the regional conversation about transportation.



#### **Benefits of TOD**

TOD has enormous potential to help us:

- Rethink the transportation-land use connection
- Retrofit existing development where needed
- Reinvest in neighborhoods to become more economically vibrant, sustainable and livable.









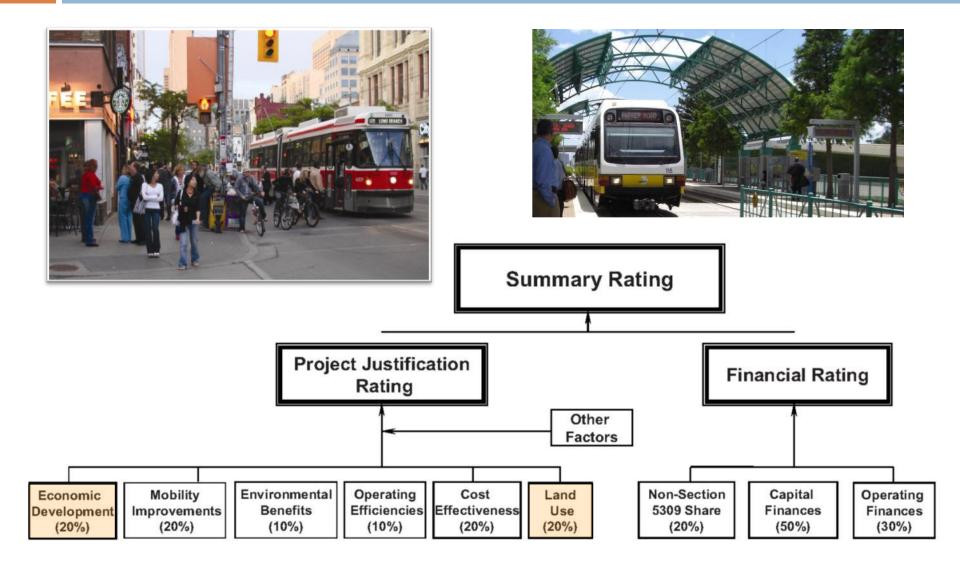
## Transportation-Land Use Connection

- Transportation systems and land use patterns influence each other.
- Mixed-use compact developments can provide travel choices that include walking, biking, and transit.
- Land use is a key component to supporting and <u>funding</u> transit.





#### FTA New Starts Evaluation Process



#### **FTA New Starts Criteria**

#### **Land Use Factors**

- Existing corridor and station area development/character
- Existing station area pedestrian facilities, including ADA
- Existing corridor and station area parking supply.

#### **Economic Development Effects Factors**

- Transit Supportive Plans and Policies
  - Growth management
  - Transit supportive corridor policies
  - Transit supportive zoning regulations
  - Tools to implement land use policies.
- Performance and Impacts of Policies
  - Performance of land use policies
  - Potential impact of transit project on regional land use.





#### **TOD Resource Guide Contents**

#### Introduction: TBARTA TOD Guiding Principles

- Chapter 1. Comprehensive Plan Policies
  - 2. Station Typologies
  - 3. Station Area Plans
  - 4. Zoning and Design Standards
  - 5. Parking Management
  - 6. Affordable and Workforce Housing
  - 7. Infrastructure
  - 8. Economic Development
  - 9. Funding and Financing
  - 10. Public Engagement and Education





#### **TOD Resource Guide Structure**

- Standalone chapters with common thread
- Research and methodology statements
- Important topics and considerations
- Relation to FTA New Starts Criteria
- Menu of tools and strategies
- Opportunities for and challenges to implementation in TBARTA Region
- □ Identification of Potential Partners
- Case Studies
- Suggested Reading and Additional Resources





#### Introduction: Guiding Principles

- Coordination, Economic Development and Implementation
- □ Land Use
- Mobility
- Community Design





## Ch. 1 Comprehensive Plan Policies

- Model Comprehensive Plan Policies
  - Goals, Objectives and Policies Relating to:
    - Coordination and Economic Development
    - Future Land Use and Densities/Intensities
    - Bicycle and Pedestrian Mobility
    - Parking
    - Community Design
    - Building and Site Design
- Relationship of Comp Plans to Land Development Codes
- Discussion of transit-supportive land use planning activities within the TBARTA Region



#### Ch. 2 Station Typologies

- Relationship of Comprehensive Plans and Land
   Development Codes to Station Typologies
- □ Variation within the TBARTA Region
- System-Wide Planning Considerations
- Station Typologies
  - Matrix of Urban Form
  - Role of Transit Mode





#### Ch. 3 Station Area Planning

- Relationship of Station Area Plans to:
  - Comprehensive Planning
  - Land Development Codes
  - Station Typologies
  - Transportation Improvement Plans
  - Capital Improvement Plans
- Plan Development Process
- Public Participation
- Concept Planning and Station Area Identity





#### Ch. 4 Zoning and Design Standards

- □ Regulatory Framework
- Incentives vs. Requirements
- Regulating Uses within TOD
- Multimodal Connectivity and ADA
- Menu of Options
- □ Importance of Each Standard
  - Connectivity
  - Structure Specific
  - Site Specific





#### Ch. 5 Parking Management

- Important Topics
  - Consumer Behavior
  - Cost and funding/financing of infrastructure
  - Affect on Transit Ridership
  - Integration into Surrounding Community
  - Needs by Station Type
  - Affect on Housing Cost
- Supply and Management
  - Parking Management Districts
  - Controlled or Market-Based
  - Shared Parking
  - On-Street Parking





#### Ch. 6 Affordable & Workforce Housing

- Important Topics
  - Historical Approaches in Florida
  - Long vs. Short Term Affordability
  - Affect of Housing Type
  - Variation within the TBARTA Region
- Existing Providers of Affordable Housing
  - Governmental, Quasi-Governmental and Non-Profit Entities
- Strategies and Tools
  - Privately and publically provided housing
  - Market, Incentive and Regulatory Based Approaches



#### Ch. 7 Infrastructure

- Stormwater
  - Master planned ponds and utility agreements
  - Partnerships with water management districts
  - Low Impact Development techniques
- □ Police/Fire/EMS
  - Urban fire system flows
  - Roadway design
- Shared Utility Easements
- □ Schools
  - Reduction of footprint
  - Urban partnership schools





#### Ch. 8 Economic Development

- Local Government Assistance
  - Impact Fee Credits
  - Application Fast Tracking and Review Fee Waivers
  - Voluntary Area-wide Zoning Approvals
  - Special Districts
- Infrastructure Investments
- Property Tax Exemptions
- Federal Tax Credits
- Brownfields Redevelopment
- Marketing and Promotions





#### Ch. 9 Funding and Financing

- Recurring Revenue Generators
  - Community Development Districts
  - Lease Agreements and Station Concession Fees
- One-Time Revenue Generators
  - Federal and State Grants
  - Station Connection Fees
- Station / Amenity Naming Rights
- Risk Sharing and Partnerships
  - Public-Private Partnerships like Joint Development
  - Alternative Project Delivery Approaches





#### Ch. 10 Public Engagement & Information

- Important Topics
  - Need for Increased Public Awareness & Participation
  - Variations within the TBARTA Region
  - Historical Attitudes
  - Importance of Leadership
- ☐ Methods of Engagement
  - Social Media and the Internet
  - Traditional Media
  - Community Meetings
  - Survey Instruments and other feedback techniques
  - Visualization Techniques





#### Partners in TOD

#### States

- Transportation Funds
- Housing Funds

#### FTA/FHWA

- NEPA
- New/Small Starts
- Metro Planning Process
- Urban Formula Grants

#### Metro Government

- Regional, Corridor and Station Planning
- Transportation and Infrastructure Funding
- Modeling and Demographic Data

#### Transit Agency

- Infrastructure Design
- Land Owner
  - Planning
    - Construction
  - Joint Development

#### **Local Government**

- Planning + Zoning
- · Permitting
- Community Outreach
- Land owners
- Affordable Housing

#### Private Developer

- Proposals
- Land Assembly
- Entitlements
- Construction

#### US Treasury

HUD

**CDBG** 

HOME

- LIHTCs
- NMTC

#### General Public

- Community and Neighborhood Associations
- Businesses and Employers
- Non-profit Advocates

TOD

Community Organizations





## Stay Connected with TBARTA

- Provide Your Feedback on the Land Use Working Group (LUWG) and TOD Resource Guide
  - TBARTA website (<u>www.tbarta.com</u>)
    - Click on "Join Our Mailing List" (left-hand side of home page) & check "Land Use Working Group"
    - Click on "About" → "LUWG" → "TOD Resource Guide"
    - Comment on LUWG Topics





#### **TOD TOOLBOX:**

## **Tri-Rail Station Evaluation Project**

## Lynda Kompelien-Westin, AICP Transportation Planning Manager, Real Estate

South Florida Regional Transportation Authority www.sfrta.gov



#### **TOD TOOLBOX:**

## **Tri-Rail Station Evaluation Project**

PURPOSE: How do you tell if TOD is working?

#### **AUDIENCE:**

- Developers
- Policy Makers
- Planners
- Budget Analysts

- □ CRA's
- □ BID's
- Downtown Development Authorities
- Transit Agencies



## June 20, 2003 Tri-Rail Becomes SFRTA

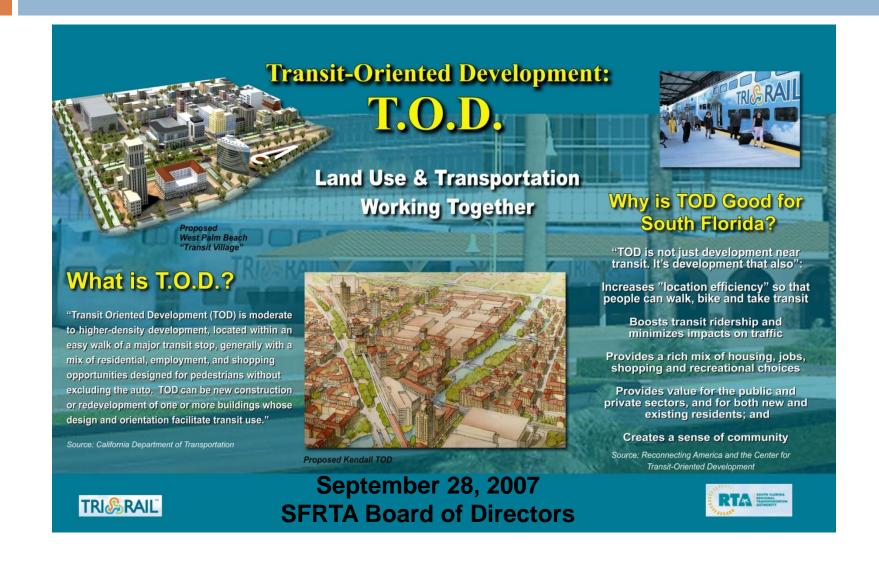
343.54(1)(b) (Powers and duties) It is the intent of the Legislature that the South Florida Regional Transportation Authority shall have overall authority to coordinate, develop, and operate a regional transportation system within the area served.

343.54(4) (Powers and duties) 4) The authority shall develop and adopt a plan for the operation, maintenance, and expansion of the transit system tri-county commuter rail service. Such plan shall address the authority's plan for the development of public and private revenue sources, and the service to be provided, including expansions of current service which are consistent, to the maximum extent feasible, with approved local government comprehensive plans. The plan shall be reviewed and updated annually.

2003-159 LAWS OF FLORIDA Ch. 2003-159



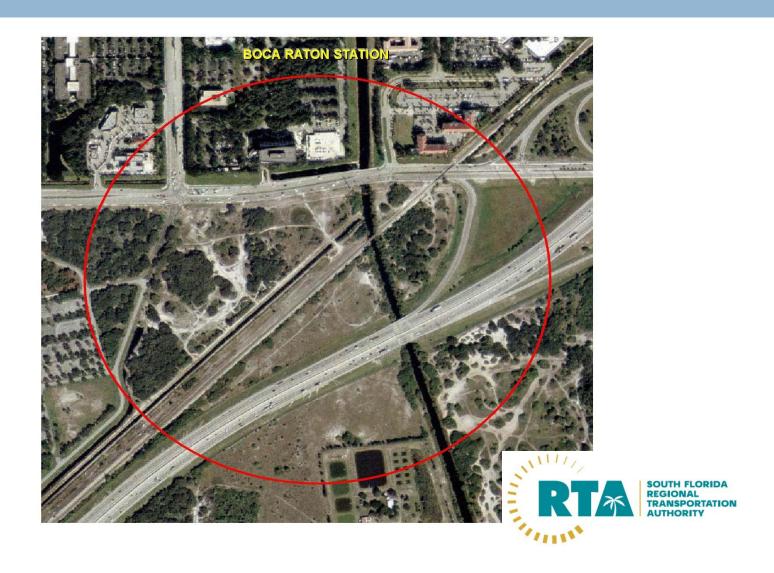
#### **SFRTA TOD Definition**



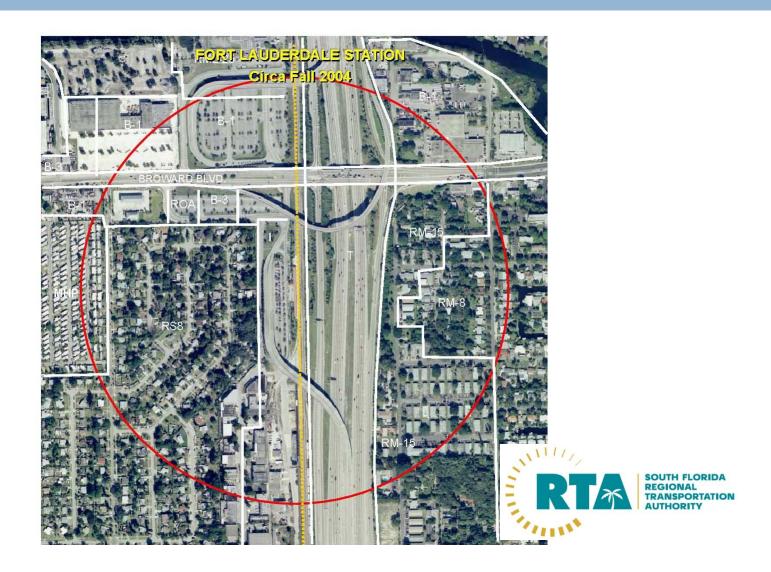
## **2005 Existing Conditions**



## **2005 Existing Conditions**

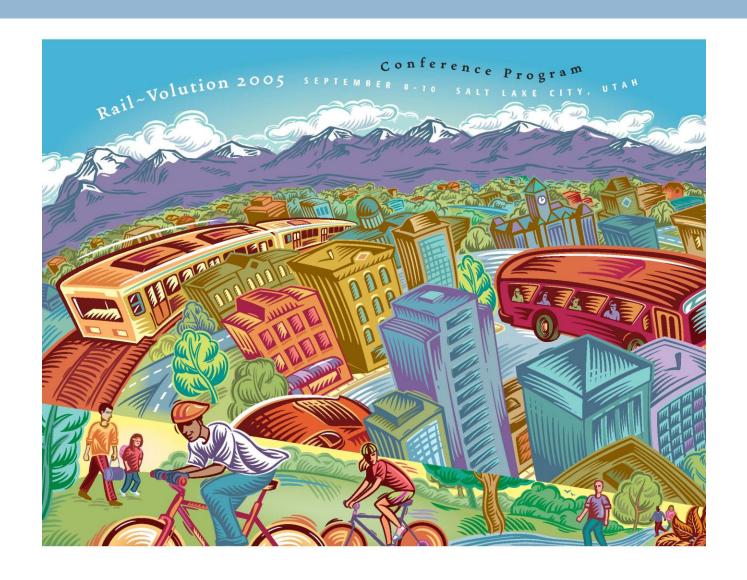


## 2005 Existing Conditions



## 2005 Existing Conditions







## **SOURCEBOOK**









Land use and transportation initiatives in Portland, Oregon

Revised August 2005

## Profiles Transit Supportive:

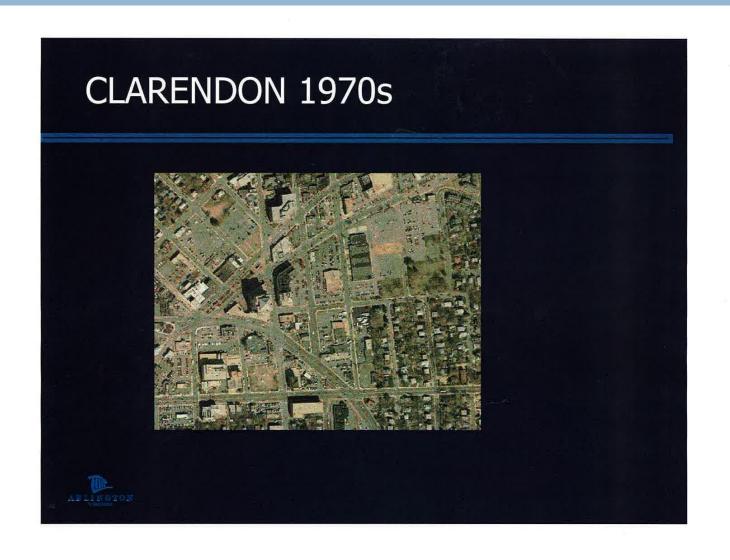
- Plans & Policies
- Programs
- Organizations

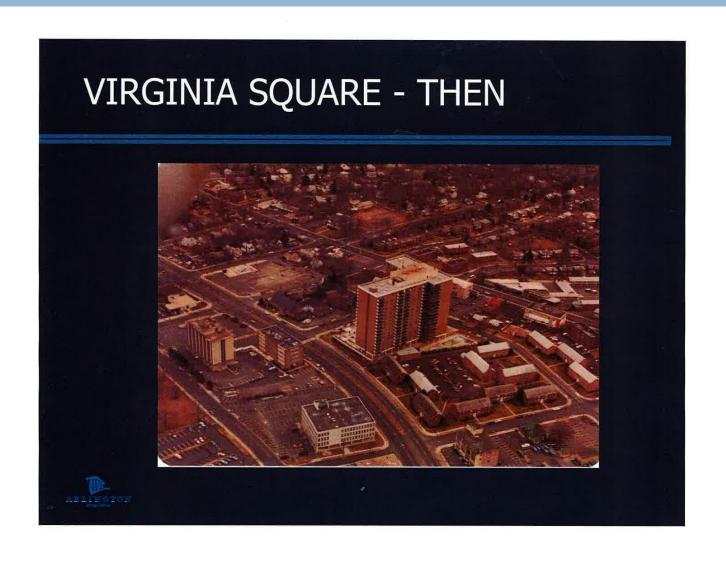


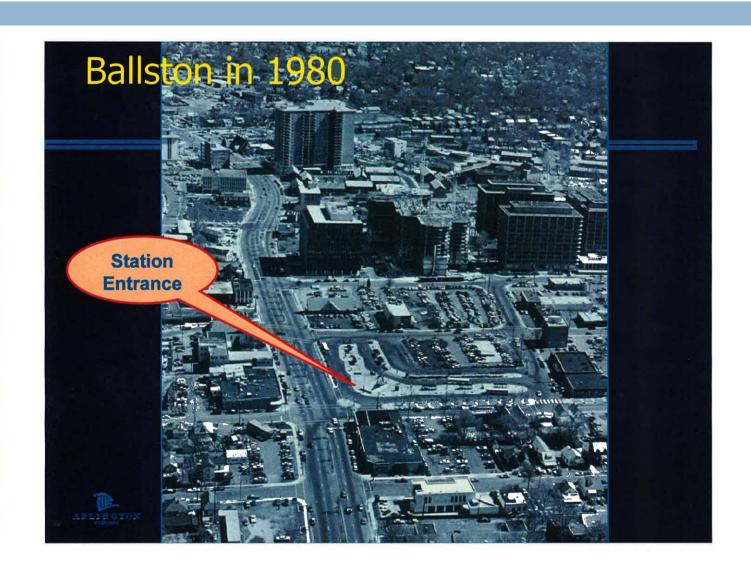












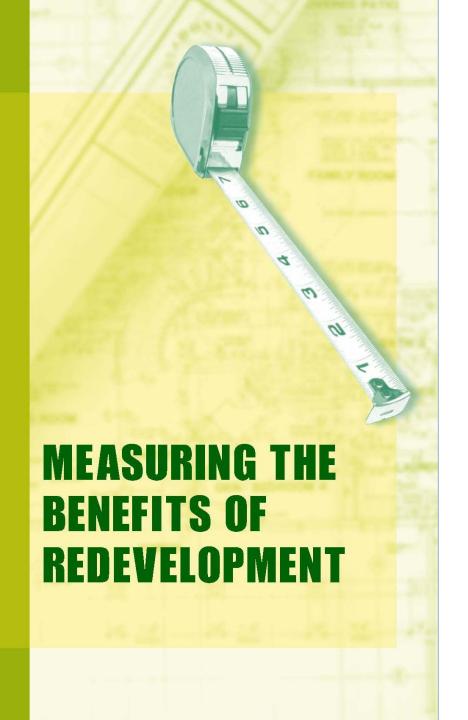
### KEY TO SUCCESS

When the planning started for metro:

- 89% of county planned low residential, garden apartment/TH or retail
- 11 % of county (2 rail corridors) were re-planned to encourage mixed-use, high density development
- Zoning in the 89 % was primarily low density so little unplanned development can happen







Publication of the Florida Redevelopment Association

Compiled by Gary Wolforth, Director of Economic Development City of North Miami Beach

Circa 2000

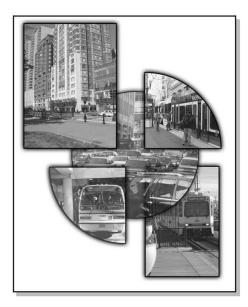
(<a href="http://redevelopment.net/wp-content/uploads/2010/09/Measuring-the-Benefits-of-Redevelopment.pdf">http://redevelopment.net/wp-content/uploads/2010/09/Measuring-the-Benefits-of-Redevelopment.pdf</a>)

Nuts and Bolts of Benchmarking

- 1. Assessed Values
- 2. Types of Uses
- 3. Vacancy
- 4. Employers and Employees
- 5. Occupational Licenses



### Guidelines and Standards for Assessing Transit-Supportive Land Use



Federal Transit Administration Office of Planning

May 2004

## RESOURCES: June 2005 Interlocal Agreement for Planning Services

South Florida
Regional Planning Council

uncil Regional Planning Council





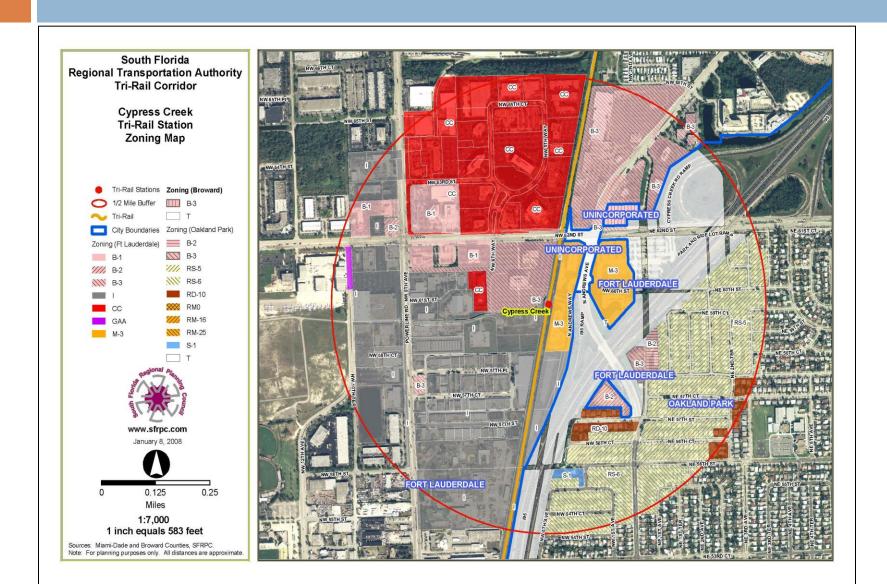
**Treasure Coast** 



## **RESULTS: Station Area Maps**

- Aerial
- Parcel
- □ Folio
- Land Use
- Zoning
- Assessed Value/Sq. Ft.
- Homestead Exemptions
- DOR Code
- Land Use/Zoning/Employment Density

## **RESULTS: Station Area Maps**



# RESULTS: Station Area Real Estate Analysis

- Vacancy
- Density/FAR
- Assessed Land Value



#### South Florida Regional Transportation Authority Tri-Rail System Summary 2005 Existing Land Use and Density

Station Location	Vaca	ent Land			Non-Va	cant Land				All L	and	
Palm Beach County Stations	Lot Size	Assessed Value (\$ million)	Lot Size (acres)	Building (square ft)	Units	Assessed Value (\$ million)	Existing Density (units/ac)	Existing FAR	Lot Size (acres)	Assessed Value (\$ million)	Existing Density (units/ac)	Existing FAR
Mangonia Park	137.2	\$16.5	390.8	3,987,063	691	\$169.1	1.77	0.23	528.0	\$185.6	1.31	0.17
West Palm Beach	103.7	\$128.3	267.8	7,207,686	917	\$489.4	3.42	0.62	371.6	\$617.7	2.47	0.45
Lake Worth	82.9	\$29.2	277.4	2,687,025	2,182	\$155.6	7.87	0.22	360.3	\$184.7	6.06	0.17
Boynton Beach	246.2	\$47.6	267.8	3,439,494	1,459	\$166.2	5.45	0.29	513.9	\$213.8	2.84	0.15
Delray Beach	101.8	\$9.2	362.4	2,692,780	987	\$151.0	2.72	0.17	464.3	\$160.2	2.13	0.13
Boca Raton	322.4	\$68.9	367.8	3,939,235	9	\$300.7	0.02	0.25	690.2	\$369.6	0.01	0.13
Palm Beach Total	994.3	\$299.7	1,934.0	23,953,283	6,245	\$1,432.0	3.23	0.28	2,928.3	\$1,731.7	2.13	0.19
Broward County Stations	Lot Size	Assessed Value (\$ million)	Lot Size	Building (square ft)	Units	Assessed Value (\$ million)	Existing Density (units/ac)	Existing FAR	Lot Size (acres)	Assessed Value (\$ million)	Existing Density (units/ac)	Existing FAR
Deerfield Beach	143.5	\$15.8	337.6	4,203,769	660	\$336.5	1.96	0.29	481.1	\$352.3	1.37	0.20
Pompano Beach	150.3	\$6.7	197.6	2,751,862	1,150	\$216.1	5.82	0.32	347.9	\$222.8	3.31	0.18
Cypress Creek	213.9	\$23.0	280.2	5,634,424	530	\$483.9	1.89	0.46	494.1	\$506.9	1.07	0.26
Fort Lauderdale	100.8	\$21.7	295.5	2,577,382	1,432	\$272.6	4.85	0.20	396.3	\$294.3	3.61	0.15
Fort Lauderdale Hollywood	144.0	\$48.3	173.2	2,374,421	150	\$255.4	0.87	0.31	317.3	\$303.7	0.47	0.17
Sheridan	51.6	\$11.8	382.3	2,698,645	1,314	\$245.4	3.44	0.16	433.9	\$257.3	3.03	0.14
Hollywood	53.3	\$15.0	239.8	3,311,220	1,141	\$269.4	4.76	0.32	293.1	\$284.4	3.89	0.26
Broward Total	857.6	\$142.3	1,906.1	23,551,723	6,377	\$2,079.4	3.35	0.28	2,763.7	\$2,221.7	2.31	0.20
Miami-Dade County Stations	Lot Size (acres)	Assessed Value (\$ million)	Lot Size (acres)	Building (square ft)	Units	Assessed Value (\$ million)	Existing Density (units/ac)	Existing FAR	Lot Size (acres)	Assessed Value (\$ million)	Existing Density (units/ac)	Existing FAR
Golden Glades	99.3	\$7.2	285.0	5,137,140	1,318	\$184.4	4.63	0.41	384.2	\$191.5	3.43	0.31
Opa Locka	135.7	\$8.6	261.5	2,641,097	1,960	\$131.2	7.50	0.23	397.2	\$139.8	4.93	0.15
Metrorail	24.9	\$8.4	299.2	4,831,358	970	\$219.3	3.24	0.37	324.1	\$227.7	2.99	0.34
Hialeah Market	61.7	\$22.3	289.3	5,420,284	582	\$210.0	2.01	0.43	351.1	\$232.3	1.66	0.35
Miami Airport	312.5	\$132.7	327.8	3,233,832	288	\$232.3	0.88	0.23	640.3	\$365.0	0.45	0.12
Miami-Dade Total	634.1	\$179.2	1,462.7	21,263,711	5,118	\$977.2	3.50	0.33	2,096.9	\$1,156.4	2.44	0.23
Tri-Rail System Total	2,486.0	\$621.2	5,302.9	68,768,717	17,740	\$4,488.6	3.35	0.30	7,788.8	\$5,109.8	2.28	0.20

Data Sources: Palm Beach County Property Appraiser (2005), Broward County Property Appraiser (2005) and Miami-Dade County Property Appraiser (2005).

# RESULTS: Station Area Economic Analysis

- Employers
- Employees
- Employees/acre
- □ Employees/square mile
- Average Employees/Employer
- Occupational Liscences



### Regional Tri-Rail Corridor Employment Density Within 1/2 Buffer

	Station	Total Employers	Total Employees	Acres	Square Miles	Employees per Acre (Approx.)	Employees per Sq. Mile (Approx.)	Average Employees Per Employer
	Mangonia Park	298	2,976	502	0.78	5.93	3,815	9.99
	West Palm Beach	265	6,072	502	0.78	12.10	7,784	22.91
Palm Beach County	Lake Worth	116	1,378	501	0.78	2.75	1,767	11.88
Failii Beach County	Boynton Beach	115	1,178	501	0.78	2.35	1,510	10.24
	Delray Beach	248	2,681	502	0.78	5.93	3,815	10.81
	Boca Raton	145	4,583	502	0.78	9.13	5,876	31.61
								*
	Deerfield Beach	388	8,291	502	0.78	16.52	10,629	21.37
	Pompano Beach	166	3,171	502	0.78	6.32	4,065	19.10
	Cypress Creek	519	6,902	502	0.78	13.75	8,849	13.30
<b>Broward County</b>	Fort Lauderdale	112	1,543	503	0.78	3.07	1,978	13.78
	Fort Lauderdale Hollywood	219	2,050	502	0.78	4.08	2,628	9.36
	Sheridan	163	3,229	502	0.78	6.43	4,140	19.81
	Hollywood	220	2,824	502	0.78	5.63	3,621	12.84
	*	**		-				
	Golden Glades	163	3,313	502	0.78	6.60	4,247	20.33
	Opa Locka	177	1,573	503	0.78	3.13	2,016	
Miami-Dade	MetroRail	402	2,324	502	0.78	4.63	2,979	5.78
	Hialeah Market	372	6,054	502	0.78	12.06	7,762	16.27
	Miami Airport	133	3,431	502	0.78	6.83	4,399	25.80
	Palm Beach County Subtotal	1,187	18,868	494	0.78	38.19	24,567	15.90
Totals By Counties	Broward County Subtotal	1,787	28,010	502	0.78	55.80	35,910	
	Miami-Dade County Subtotal	1,247	16,695	502	0.78	33.25	21,403	13.39
System Total	Total - All Counties	4,221	63,573	10,533	16	127.24	81,880	15.06

Source: InfoUSA, December 2006

Prepared By: South Florida Regional Planning Council

10/2/2008

#### Occupational Licenses Within 1/2 Mile of Tri-Rail Station

Station Location	Station Location	Total # of Occupational Licenses	% of Total Licenses
Palm Beach			
County	Mangonia Park	176	3.1%
	West Palm Beach	281	4.9%
	Lake Worth	85	1.5%
	Boynton Beach	90	1.6%
	Delray Beach	121	2.1%
	Boca Raton	207	3.6%
Broward County	Deerfield Beach	274	4.8%
	Pompano Beach	153	2.7%
	Cypress Creek	482	8.4%
	Fort Lauderdale	146	2.5%
	Fort Lauderdale/Hollywood	180	3.1%
	Sheridan Street	111	1.9%
	Hollywood	155	2.7%
Miami-Dade			
County	Golden Glades	191	3.3%
	Opa Locka	221	3.8%
	Hialeah Market	451	7.8%
	Metrorail Transfer	1,212	21.0%
	Miami Airport	1,224	21.3%
	Total	5,760	100.0%

Total Occupational Licenses By County	Total	% of Total
Palm Beach County	960	17%
Broward County	1,501	26%
Dade County	3,299	57%
Total	5,760	100%

#### Sources:

Palm Beach Property Appraiser Office 2007
Palm Beach Tax Collector Office 2007
Broward County Revenue Collection Department March 2007
Miami-Dade County Enterprise Technology Service Department July 2007

# RESULTS: Station Area Demographic Analysis

- Population
- Ethnicity
- Education level
- Household Type and Size
- □ Place of Work
- Transportation To Work
- Commute Duration and Time of Day
- □ Income
- Housing Units, Tenure, Vacancy,Median Rent, and Median Value



### South Florida Regional Transit Authority Socio-Economic Profile Stations in Miami-Dade, Broward and Palm Beach Counties

Stations in Miani-Daue, Droward and Paint Deach Counties						
	Miami	Hialeah	Metrorail	NECTOR RESIDENCE OF CO.	Golden	THE RESERVE OF THE PARTY OF THE
	Airport	Market	Transfer	Opa-Locka	Glades	Hollywood
TOTAL POPULATION BY RACE / ETHNICITY		4000104001.31	120 100 1204000000	W.S. 100/000	Hoose I'm I avon	
Total:	2,063	9,327	11,290	7,965	9,774	12,135
White alone, non-Hispanic	248	984	804	295	972	6,141
Black or African American alone, non-Hispanic	17	1,260	708	4,694	7,068	2,421
Other non-Hispanic, including 2 or more races	0	143	16	306	577	733
Hispanic or Latino	1,798	6,940	9,762	2,670	1,157	2,840
TOTAL POPULATION BY AGE						
Total:	2,063	9,327	11,290	7,965	9,774	12,135
Under 5	73	698	570	784	747	750
5-17	322	1,466	1,853	2,039	2,091	1,821
18-24	158	864	1,013	1,082	881	1,142
25-64	1,118	5,110	5,879	3,440	4,923	6,968
65 and over	392	1,189	1,975	620	1,132	1,454
EDUCATIONAL ATTAINMENT FOR THE POPULATION 25 YEARS AND OVER						
Total:	1,510	6,299	7,854	4,060	6,055	8,422
No Schooling through 12th Grade, no diploma	762	2,825	4,053	2,166	1,765	1,714
High School Graduate (includes equivalency)	302	1,581	2,258	1,033	1,607	2,479
Some college, no degree	217	896	713	509	1,218	1,861
Associate Degree	114	238	281	123	453	653
Bachelor's Degree	84	406	422	135	648	1,176
Master's degree	17	218	30	67	250	306
Professional school degree	14	126	83	11	59	143
Doctorate degree	0	9	14	16	55	90
DORUM ATION BY HOUSEHOLD TYPE (NO. LIDING LIMING ALONE)						
POPULATION BY HOUSEHOLD TYPE (INCLUDING LIVING ALONE)						
Total:	2,063	9,327	11,290	7,965	9,774	12,135
In households:	2,063	9,258	11,189	7,577	9,301	12,002
In family households	1,839	8,240	10,556	6,705	8,113	8,755
In nonfamily households:	224	1,018	633	872	1,188	3,247
Living alone	155	580	463	615	867	2,029
Not living alone	69	438	170	257	321	1,218
In group quarters	0	69	101	388	473	133

# RESULTS: Station Area Capital Improvement Analysis

South Florida Regional Transportation Authority
Public Investments in the Vicinity of Tri-Rail Stations (2006-2011)
Three County Summary

	Station Location	Total Cost (000)	Systemwide Expenditures	By County Expenditures
70	Mangonia Park	78,413	4.0%	28%
	West Palm Beach	131,602	6.8%	48%
Delm Deceb	Lake Worth	13,443	0.7%	5%
Palm Beach County	Boynton Beach	23,547	1.2%	9%
County	Delray Beach	13,345	0.7%	5%
	Boca Raton	15,360	0.8%	6%
	County Total	275,711	14.2%	100%
	Deerfield Beach	91,769	4.7%	8%
	Pompano Beach	423,868	21.8%	36%
	Cypress Creek	126,229	6.5%	11%
Broward County	Fort Lauderdale	117,437	6.0%	10%
Broward County	Fort Lauderdale/Hollywood	214,098	11.0%	18%
	Sheridan Street	97,197	5.0%	8%
	Hollywood	101,629	5.2%	9%
	County Total	1,172,227	60.3%	100%
8	Golden Glades	157,101	8.1%	32%
	Opa Locka	-	0.0%	0%
Miami-Dade	Metrorail Transfer	298,777	15.4%	60%
County	Hialeah Market	-	0.0%	0%
	Miami Airport	41,776	2.1%	8%
	County Total	497,654	25.6%	100%
System Total		1,945,592	100.0%	N/A



## RESULTS: South Florida Transit Resource Guide



AGENCIES AND PROGRAMS SUPPORTING TRANSIT IN SOUTH FLORIDA

RT SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY

SEPTEMBER 2008

OFFICE OF PLANNING & CAPITAL DEVELOPMENT

### **Award Winner**

2010 Transportation Planning Excellence Awards

Sponsored by the Federal Highway Administration, Federal Transportation Administration, and the American Planning Association



## RESULTS: South Florida Transit Resource Guide

- Regional Snapshot
- Major Transportation Hubs
- Transportation Planning Coordinators
- Public Transportation Providers
- □ Transportation Supportive Plans
- Transportation Supportive Policies and Programs
- Organizations

## **RESULTS: Station Area Profiles**

### **Metrorail Transfer**



The Metrorali Transfer station is Tiri-Rail's busiest station and serves as the transfer point for its patrons to connect with Miarni-Dade Transit's Metroral system. The station is located along the north side of NW 79th Street, at its intersection with East 11th Avenue. Forty-one surface parking spaces are available at the station.

Land use immediately around the station is industrial and commercial, and this pattern continues to the north and south along the railroad tracks. However, uses quickly transition to residential a few blocks to the east and west.

TOD Activity: Low. Despite being the location where the region's two passenger rail systems converge, development activity in the Metrorail Transfer station area tends to be small scale commercial and industrial. Access to both rail systems presents strong long term potential for TOD in this station area. An area plan has been developed for the neighborhood east of and including the station. Implementation is being pursued by a local nor-profit

The Metrorail Transfer station ranks 10th in population and 4th in employment. The station area's population is 9,327 and the station area employs 6,054 people.



- Mangonia Park Station
- West Palm Beach Station
- Lake Worth Station
- Boynton Beach Station
- Delray Beach Station
- Boca Raton Station
- Deerfield Beach Station
- Pompano Beach Station
- Cypress Creek Station
- Ft. Lauderdale Station
- Ft. Lauderdale/Hollywood
   International Airport at Dania Beach
- Sheridan Street Station
- Hollywood Station
- Golden Glades Station
   Opa-locka Station
- Tri-Rail/Metrorail Transfer Station Hialeah Market Station
- Miami Airport Station

METRORA	METRORAIL TRANSFER STATION AREA SUMMARY		
Existing Land Use	IndustriaL, Residential, Commercial, and Institutional.		
Daily Ridership	1,898 boardings per weekday (1st)		
Parking Capacity	44 park-and-ride spaces and 2 taxicab spaces.		
Bus/Shuttle Connectivity	Míami-Dade Transit Routes L, 42 and 500. Metrorail and Amtrak.		
Transit Oriented Development Activity	Low. Area Redevlopement Plan for the area finalized.		

#### Miami Dade County Station Area Characteristics Existing land use within a half-mile of the Tri-Rail Station

Transportat	ion Features
Parking Capacity <sup>1</sup>	4 (18th)
Transit Connectivity	MDT routes L, 42 & 500, Metrorail, Amtrak.
Average Daily Traffic Volume (2007) <sup>2</sup>	TBD
Planned Public Investment <sup>3</sup>	\$298,777,000

Passenger Ch	aracteristics
Ave. Weekday Bdgs.	1898 (1st)
Average Trip Length <sup>4</sup>	30.3 m (6th)
Passengers Arrive From: <sup>5</sup>	Ft. Lauderdale Ft. Lauderdale Airport Hollywood
Passengers Go To: <sup>5</sup>	Ft. Lauderdale Sheridan Street Cypress Creek

Occupational Licenses <sup>6</sup>	451 (4th)
Employers <sup>7</sup>	372 (10 <sup>th</sup> )
Employees <sup>7</sup>	6054 (4 <sup>th</sup> )

Demographic Information®			
Population	11,290 (7th)		
% Ages 25-64	0.5207% (8th)		
Median Income	\$30,368 (13th)		
Bachelors and Above	0.07% (17th)		
Households	3,330 (10th)		
Ave. Household Size	3.39 (2nd)		

Housing Information				
Housing Units <sup>9</sup>	3,451 (10th)			
% Owner Occupied 10	0.598% (4th)			
% Rental <sup>10</sup>	0.367% (12th)			
% Vacant <sup>(0)</sup>	5.80%			
Single Family Units <sup>9</sup>	360			
Multi-Family Units <sup>9</sup>	320			

Land use Characteristics9	
Single Family Density	5.58 units/acre
Multi-Family Density	10.22 units/acre
Average FAR	0.34
Vacant Acres	0.077
Single Family Acres	129.4
Multi-Family Acres	22.1
Retail Acres	16.5
Office Acres	3
Industrial Acres	146.8
Institutional Acres	4.2
Public Land Acres	2.1
Total Acres	324.1
Assessed Value (2005)	\$227,723.6 (11th)

#### ources:

- South Florida Regional Transportation Authority 2009-2019 Transit Development Plan Major Update, December 2008.
- <sup>2</sup> Palm Beach County Traffic Division Historic Traffic Growth Table Current Year 2010, June 1, 2010.
- <sup>3</sup> South Florida Regional Transportation Authority Public Investments in the Vicinity of Tri-Rail St Council, March 12, 2008.
- \*SFRTATDP 2007 Update Technical Memorandum, Task 3.4- Service Sufficiency Analysis, Table . \* 2008 Tri-Rail On-Board Survey. Final Report, 2008
- Occupational Licenses within 1/4 Mile of Tri-Rail Stations, South Florida Regional Planning Cour
  Regional Tri-Rail Comidor Employment, Density Within 1/2 Buffer, South Florida Regional Planni

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- \*South Florida Regional Transportation Authority Socio-Economic Profile Stations in Mismi-Da
  \*South Florida Regional Transportation Authority Home Ownership within ½ Mile of Tir-Rail 9
  was different data sources.
- 19 South Florida Regional Transportation Authority 2005 Palm Beach County Summary Existing



## Take Away

- Go to conferences.
- Learn from peer examples.
- Learn from peer organizations
- Utilize existing resources.
- Property appraiser records are a Byzantine maze.
- Data will be useful at unexpected times.
- □ It takes time.

## TRANSIT ORIENTED DEVELOPMENT TOOLBOX:

## REGIONAL AND STATEWIDE COORDINATION EFFORTS

## **QUESTIONS & COMMENTS?**