## Freight Moves Florida: Planning for Trade & Logistics in Our Changing Economy

September 11, 2013 Florida APA Conference

> Juan Flores, FDOT Alexander Trauger, MetroPlan Orlando Patricia Steed, Central Florida RPC John Kaliski, Cambridge Systematics Rob Palmer, RS&H





#### **Statewide Initiatives**

Florida Trade & Logistics Study: 2.0

Florida Freight Mobility & Trade Plan

#### **Regional Plans/Perspectives**

- North Florida Framework Plan
- Central Florida Economy in Motion
- Heartland 2060 Building a Resilient Region

#### **Panel Discussion**

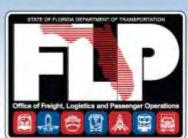
- Moderated Session
- Q/A from Audience

# Freight Mobility & Trade Plan

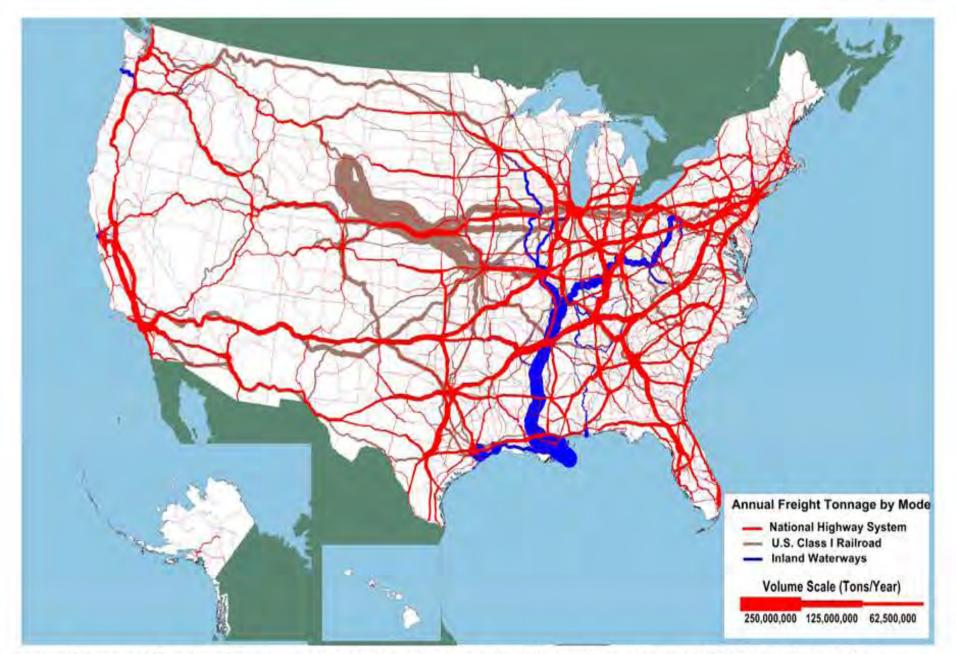
#### FLORIDA DEPARTMENT OF TRANSPORTATION

2013 APA Florida Annual Conference September 11, 2013 Orlando, Fl

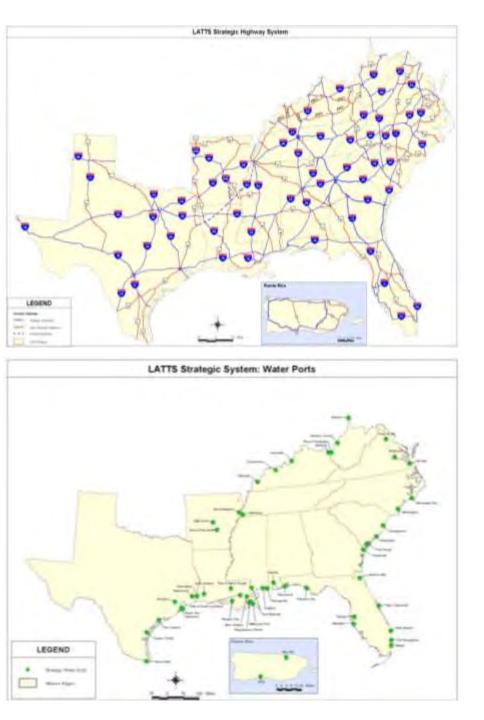


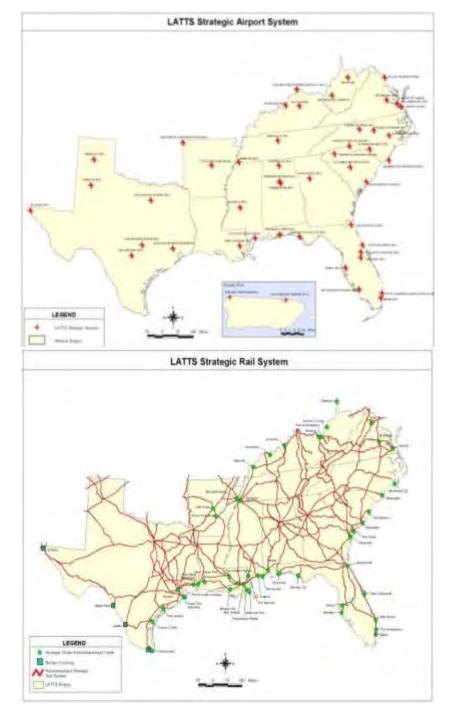






Sources: Highways: U.S. Department of Transportation, Federal Highway Administration, Freight Analysis Framework, Version 3.4, 2012. Rail: Based on Surface Transportation Board, Annual Carload Waybill Sample and rail freight flow assignments done by Oak Ridge National Laboratory. Inland Waterways: U.S. Army Corps of Engineers (USACE), Annual Vessel Operating Activity and Lock Performance Monitoring System data, as processed for USACE by the Tennessee Valley Authority; and USACE, Institute for Water Resources, Waterborne Foreign Trade Data, Water flow assignments done by Oak Ridge National Laboratory.



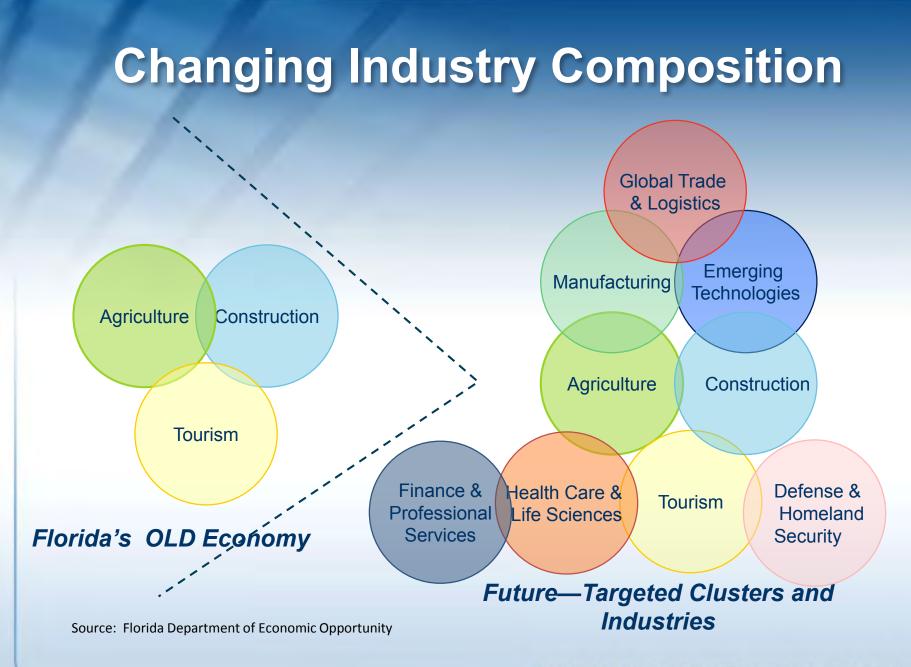


## State of Florida by the #s Freight and the Economy—so what?

#### Florida .....

#### 3<sup>rd</sup> largest Logistics and Distribution in the Nation 5<sup>th</sup> number of Logistics and Distribution jobs

<u>Component</u>	<u>Owner/Operator</u>	<u>Facilities</u>
State Highways	State of Florida	12,076 centerline miles; 6,661 bridges
Local Roads	Local governments	109,683 centerline miles; 5,326 bridges
Public Transit	Local agencies/ SFRTA	29 urban fixed-route transit agencies 6 rural fixed-route transit agencies
Rail	Private sector*	2,786 railway miles
Seaports	Local agencies	15 seaports, 7 with cruises "Gateways"
Waterways	Federal & state governments	3,475 miles of intracoastal & inland routes
Aviation	Local agencies	19 commercial airports 110 public general aviation 650 private general aviation
Spaceports	Special District	2 spaceports; 5 active launch facilities



## Florida's Freight System: System Demand, Trends, and Performance

 WHAT freight is—
 A deeper look at what Florida Freight System looks like now and in the future



## Legal Mandates

#### Florida House Bill 599

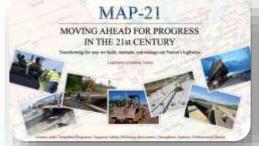
- Increasing
  - the flow of domestic and international trade through the state's seaports and airports

  - the development of intermodal logistic centers in the state
     the development of manufacturing industries in the state
     the implementation of compressed natural gas (CNG), liquefied natural gas (LNG), and propane energy policies

#### Federal MAP-21 – Section 1118

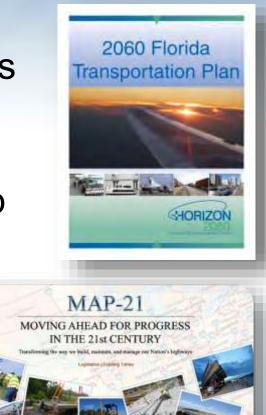
- Identify trends, needs and issues
- Describe policies, strategies and performance measures to guide investment decisions
- Describe how plan will improve state ability to meet national freight goals
- Consider innovative technologies and operational strategies Describe improvements required to reduce deterioration of heavy truck routes Provide an inventory of facilities with freight mobility issues and strategies to
- address those issues.





## Addressing the Challenges: **Policy Directions**

HOW do we accomplish our goals: Objectives and Strategies developed with stakeholder help

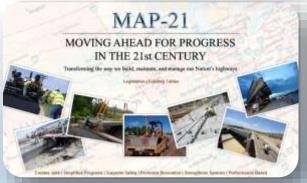




FLORIDA FREIGHT MOBILITY & TRADE PLAN

House Bill 599

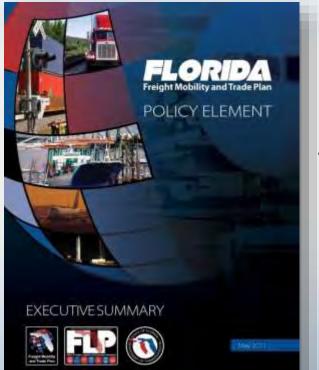




### Framing Florida's Freight Mobility & Trade Plan

*"Florida has a once in a lifetime opportunity, with the expansion of the Panama Canal, to transform the state's economy to become a global hub of trade, logistics and export oriented manufacturing activities..."* 

Governor Rick Scott



#### Policy Element : Adopted 6/19/13

Lays out policy framework
 Identifies responsibilities for implementation
 Meets requirements of HB 599

#### Investment Element – By 7/1/14

#### Identifies freight needs Identifies criteria for state investment in freight Prioritizes freight investments across modes Meets requirements of MAP-21

## Extensive Partner Involvement Over 750 Floridians Participated



The FMTP was developed with the participation of public and private sector representatives from all regions of the state, and included many MPO/TPOs.

The strategies developed will help guide future freight investments and allow the state to select freight projects strategically.

## FMTP Policy Objectives & Strategies



Capitalize on the Freight Transportation Advantages of Florida Through Collaboration on Economic Development, Trade, and Logistics Programs

**Increase Operational Efficiency of Goods Movement** 



**Minimize Costs in the Supply Chain** 



Align Public and Private Efforts for Trade and Logistics

5

**Raise Awareness and Support for Freight Movement Investments** 



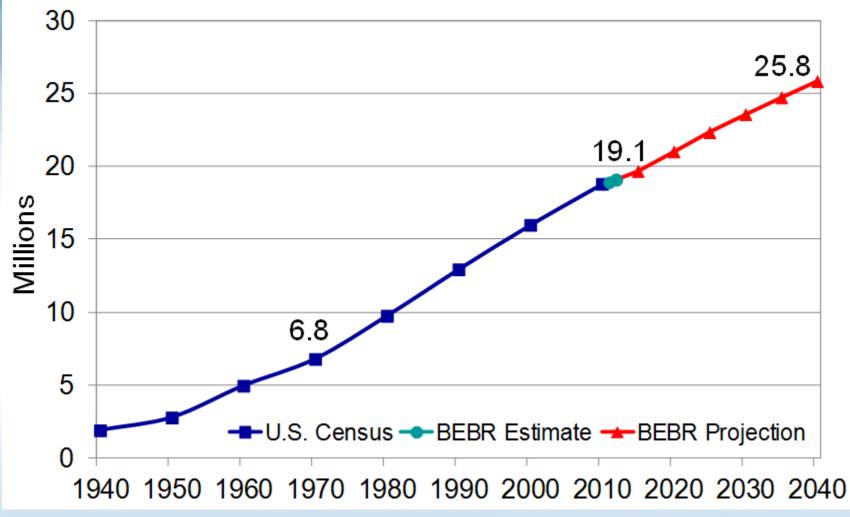
Develop a Balanced Transportation Planning and Investment Model That Considers and Integrates All Forms of Transportation

RADE PLAN

Transform the FDOT's Organizational Culture to Include Consideration of Supply Chain and Freight Movement Issues

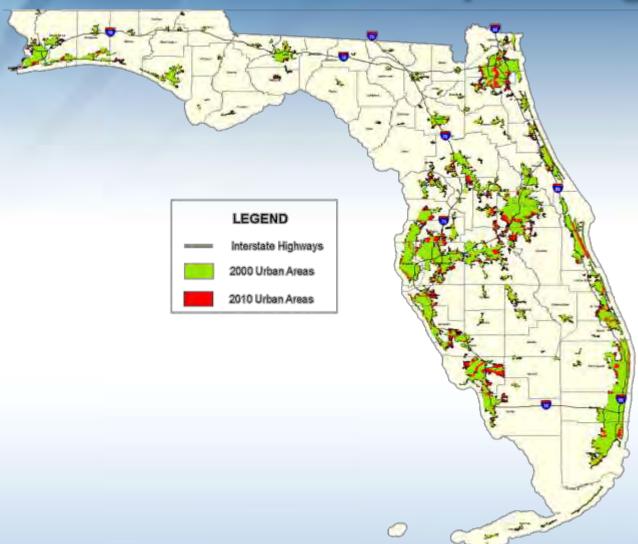


## **Population is still Growing**



Sources: Census Bureau; University of Florida, Bureau of Economic and Business Research (BEBR)

## **Urbanized Areas Expanding**



Source: FDOT Office of Policy Planning

## **SIS Adopted Work Program - Modal**

\$1.2 Billion in SIS Modal Funds
 - \$702 Million State Managed
 - \$515 Million Matching Funds

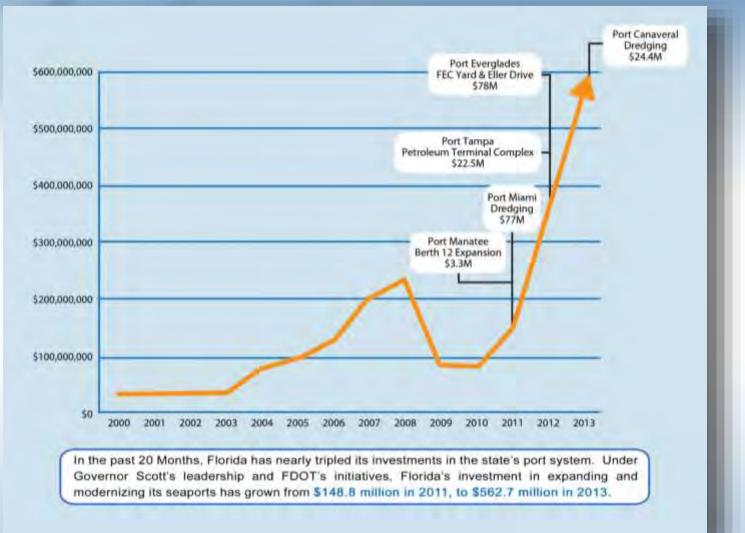
- Funding by Mode
  - Aviation -
  - Space -
  - Rail-
  - Seaport -
  - Transit -
  - Intermodal -

\$343.7 Million \$23.5 Million \$321.2 Million \$413.9 Million \$101.6 Million \$13 Million





## Florida is already Investing in International Trade



## **Regional Freight Plans**

- North Florida Freight, Logistics and Intermodal Framework Plan
- Tampa Bay Regional Goods Movement Study
- Central Florida Freight, Goods and Services Mobility Strategy Plan (update underway)
- Southeast Florida Regional Freight Plan (update underway)



## **Freight PARTNERSHIPS**



MPOAC









## Metropolitan Planning Organization Advisory Council (MPOAC)

#### 26 MPO/TPOs in Florida

- Regional 'Freight' Planning
- State Trade Freight Plan
- Trade and Logistics 2.0

**MPOAC Freight Committee** 

- Election of Chairs—
  - Greg Stuart, Broward MPO
  - Gary Huttman, Metroplan Orlando
  - FHWA and FDOT involvement



GHT MOBILITY & TRADE PL

### **Freight Coordinators**

District 1: Terry Beacham, <u>Terry.beacham@dot.state.fl.us</u>, 863-519-2388 (Fort Myers) District 2: Thomas Hill, <u>Thomas.hill@dot.state.fl.us</u>, 904-360-5414 (Jacksonville)

District 3: Mike Lewis, <u>Mike.lewis@dot.state.fl.us</u>, 850-330-1545 (Panama City)

District 4: Jeff Weidner, <u>Jeff.weidner@dot.state.fl.us</u>, 954-777-4670 (Ft. Lauderdale)

District 5: John Zielinski, <u>John.zielinski@dot.state.fl.us</u>, 407-482-7868 (Orlando)

District 6: Dionne Richardson, <u>Dionne.richardson@dot.state.fl.us</u>, 305-470-5292 (Miami)

**District 7:** George Boyle, <u>George.boyle@dot.state.fl.us</u>, 813-975-6409 (Tampa) **Turnpike:** Eric Gordon, <u>Eric.gordin@dot.state.fl.us</u>, 407-264-3316 (Orlando)

**FHWA:** Greg Hall, D2 Transportation Engineer and Freight Team Lead, <u>glhall@dot.gov</u> (Tallahassee)

**Central Office:** Ed Lee, Project Manager <u>robert.lee@dot.state.fl.us</u>, 850-414-4535 (Tallahassee)

## Intermodal Logistic Centers Investment

## FDOT Investment of \$5 Million "Skin in the Game"

- \$42 Million of Private Sector Contribution
- Creation of an Est. 1,213 total Florida Jobs



## 67 County Freight and Logistics brochures

#### Hillsborough County FREIGHT & LOGISTICS OVERVIEW

Florida Department of Transportation



- Imports/Exports
- County Map
- Top Employment Sectors
- Top Business Sectors for Retention and Promotion
- Top International Trade Partners
- Scan Code & Contacts

#### www.FreightMovesFlorida.com

#### No Silver Bullet approach...

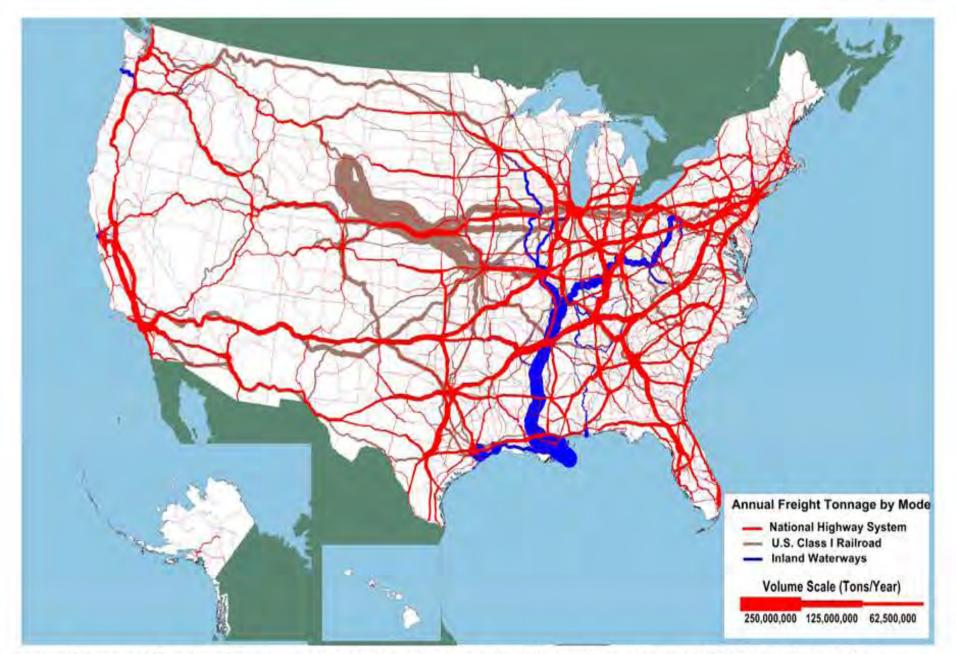


Tool box approach with a mix of solutions—PPP, Land Use, Mode selection, Workforce, Regional Niche, Business Climate Economic Development etc..etc..









Sources: Highways: U.S. Department of Transportation, Federal Highway Administration, Freight Analysis Framework, Version 3.4, 2012. Rail: Based on Surface Transportation Board, Annual Carload Waybill Sample and rail freight flow assignments done by Oak Ridge National Laboratory. Inland Waterways: U.S. Army Corps of Engineers (USACE), Annual Vessel Operating Activity and Lock Performance Monitoring System data, as processed for USACE by the Tennessee Valley Authority; and USACE, Institute for Water Resources, Waterborne Foreign Trade Data, Water flow assignments done by Oak Ridge National Laboratory. Major Freight Corridors in the U.S., Canada, and Mexico



#### **Corridors: Economic Engines**

Trading Block Perspective— U.S. Freight Flows

#### Members:

- Transport Canada
- US DOT
- Secretaria De
   Comunicaciones Y
   Transportes

## Florida's freight future is bright.

Leadership and desire to improve freight mobility- Its there with Governor Scott supported by Ananth Prasad

**Policy Element has laid out** the direction with maximum private sector input

*Next step is the Investment Element*, which will prioritize projects to best invest state dollars









# Freight Mobility & Trade Plan

#### FLORIDA DEPARTMENT OF TRANSPORTATION

2013 APA Florida Annual Conference September 11, 2013 Orlando, Fl

Juan Flores State Freight Administrator, FDOT Juan.Flores@dot.state.fl.us 850-414-5244

www.freightmovesflorida.com



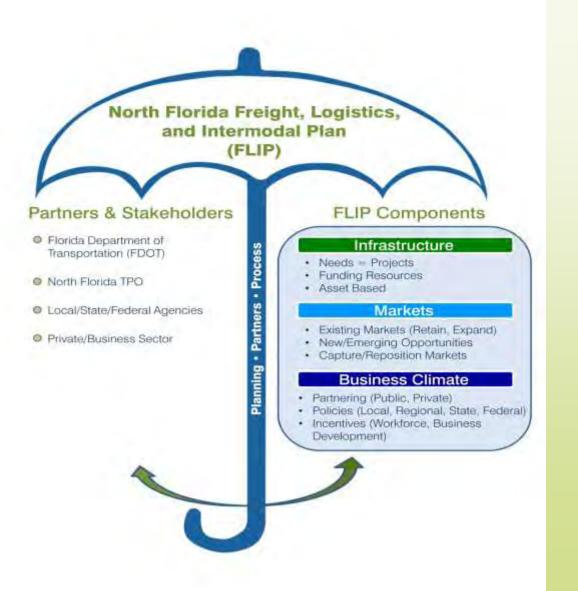




North Florida Freight, Logistics & Intermodal Framework Plan

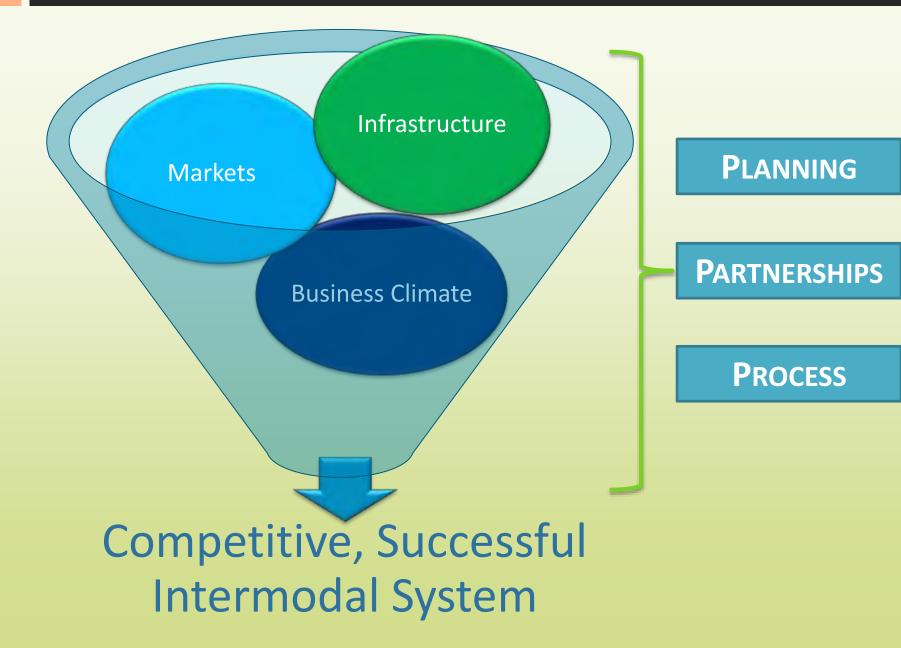


#### **Overview**



Holistic plan designed to provide a clearinghouse document for partnering, funding and strategic planning.

#### What We Have Learned



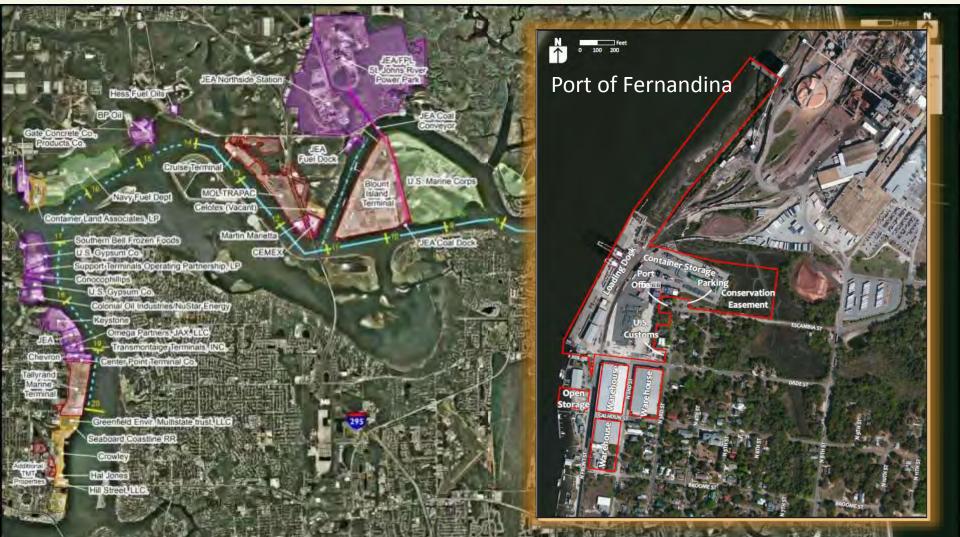
#### **Timeline of Key Activities**



including \$600 million targeted for harbor

#### **Marine Infrastructure**

No. 1 container port in Florida No. 1 vehicle exporter port in United States Leader in Steel Exports Primary Florida port handling military (STRANET)



#### Surface Infrastructure

I-95 I-295 I-10 I-75





#### Surface Infrastructure









### Land-Based Infrastructure



Northeast Florida Market: **100 million** SF industrial, warehousing, distribution centers

#### <u>2012</u>

SanMar Bedrosians Samsung <u>1.1 m SF</u>

2<sup>nd</sup> Quarter, 2012 Cushman and Wakefield

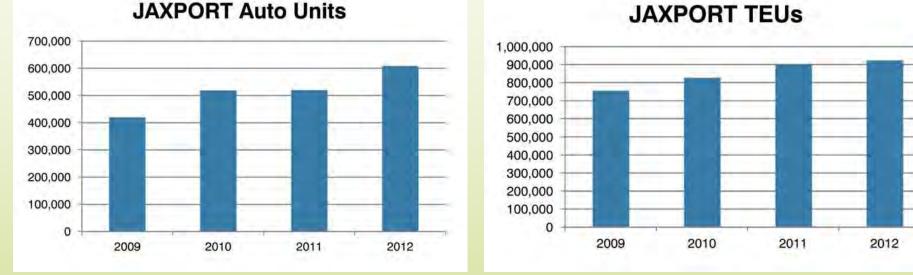
### Gateway via Truck



Truck Transit Time One Day Reach 60 million consumers 20% of U.S. Population **Markets** 

#### **Recent Trends**

**JAXPORT Auto Units** 



2009	2010	2011	2012	2009	2010	2011	2012
419,691	518,880	520,142	608,726	754,352	826,580	900,433	923,660

# "Face of Freight"—Dames Point Imports

Destinations Jacksonville Distribution Center services over 200 stores throughout the Southeast by truck and rail North America's largest specialty retailer of arts, crafts, framing, floral, wall decor, and seasonal merchandise.

Michael's:

#### Birect Distribution to Southeast

JAXAPORT

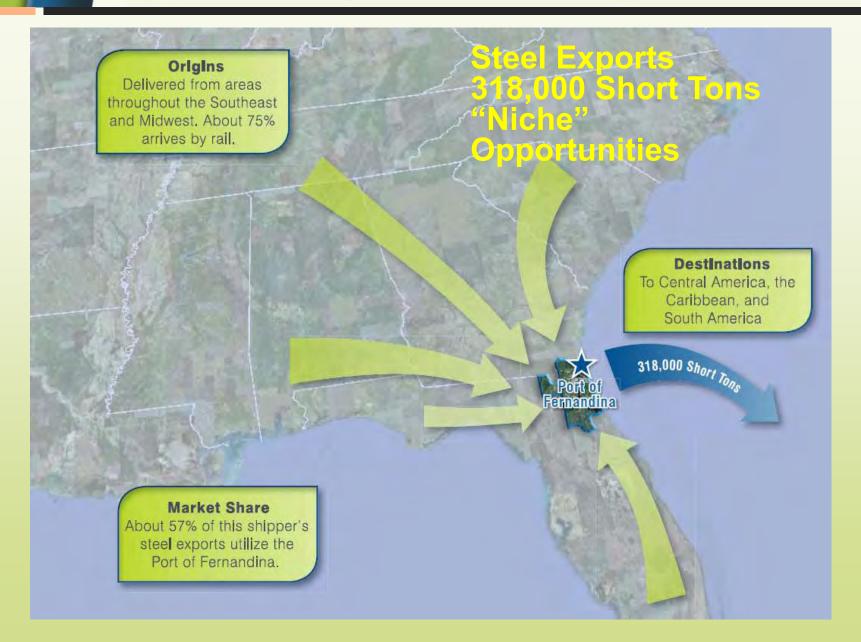
Origins From Global Partners

About 6,400 TEUs Annually (Dames Point Terminal)

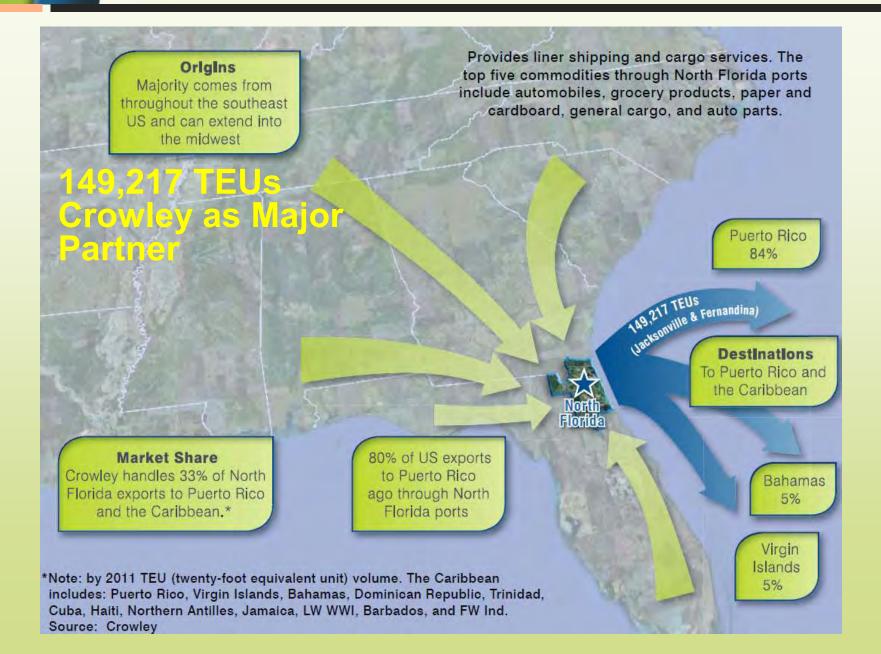
I-295/SR 9A I-10 Michael's Jax D.C JAXPORT's Dames Point Terminal

\*Note: About 4,000 FEUs expected in 2011 Source: Michaels Stores, Inc. 2011 "Cargo is like water; it will find the path of least resistance." *M. Richard Markovich Director, International Logistics Michaels Stores, Inc.* 

### "Face of Freight"—Fernandina Exports



# "Face of Freight"—Crowley/Puerto Rico Exports



gate•way /ˈgātˌwā/ n.

1. Something that serves as an entrance or a means of access....allows an entity to achieve a desired goal.

# **Overarching Directive**



### Gateway Role for State and Nation

- This is a given based on geography and infrastructure
- Recognition of leading roles at current channel depths

# Coordination/Collaboration as an Asset

- Unique North Florida TPO, FDOT, JAXPORT relationships
- Expansion of LAG responsibilities

### One Florida Business Approach

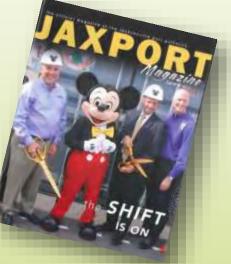
- JAX and Miami Chamber MOU
- Include National /State Significance "metrics" for decisions

# Protect Existing Markets & Developing Niche

- Leverage the strength of "existing markets" (40' channel)
- Strategic Plan Priority for JAXPORT and Port of Fernandina

# Asian Containers Recapture

- Identify next 3 Disney "redirects"
- Define goal for 3.1 m TEU "leakage"



# Manufacturing/Distribution Center Expansion

- Update 2005 Industrial Land Use Plan (COJ)
- Develop *regional* Intermodal Logistics Center, "inland port" & DC Plan

### Return on Investment (ROI) Assessment for

- Completed Infrastructure + Future Investments
- Opportunity Costs related to "capacity in system"

# Enhanced Logistics Advisory Group (LAG)

- Industry Led Executive Committee
- Host Quarterly Industry Forums

# Regional Transportation Initiatives

- JAXUSA led Regional Business Alliance
- Expand RTSC regional dialogue on freight/logistics

# POSITION NORTH FLORIDA AS NATIONAL, STATE AND REGIONAL GATEWAY

National Freight Network & Strategic Plan



- Work with FDOT and partners to maximize North Florida's network mileage and facilities on the National Freight Network
- Demonstrate national significance of North Florida
- Florida's Freight Mobility and Trade Plan



- Provide leadership and high level of engagement in Plan
- Conduct analysis and studies to demonstrate State significance

# Cooperation is civil....

# Collaboration is **TACTICAL**



Rob Palmer, AICP rob.palmer@rsandh.com

# **Economy in Motion** Central Florida's Freight Experience

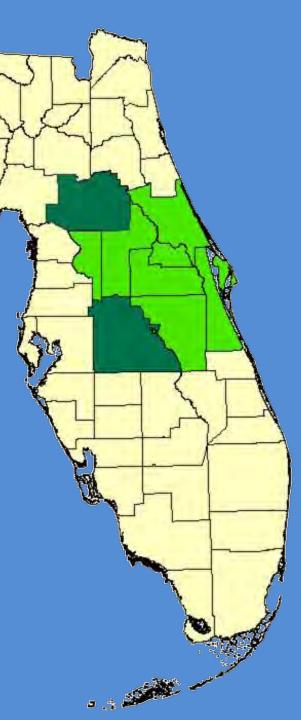


Alexander Trauger Manager of Long Range Planning Florida APA Conference



# **Freight Advisory Council**

Florida Dept. of Transportation Freight Industry Professionals Transportation Planners/Engineers Economic Development Staff Land Use and Real Estate Experts



# Port Canaveral & Spaceport



# How Much Freight?

# IMPORTS

### 37.9 million tons<sup>-</sup>



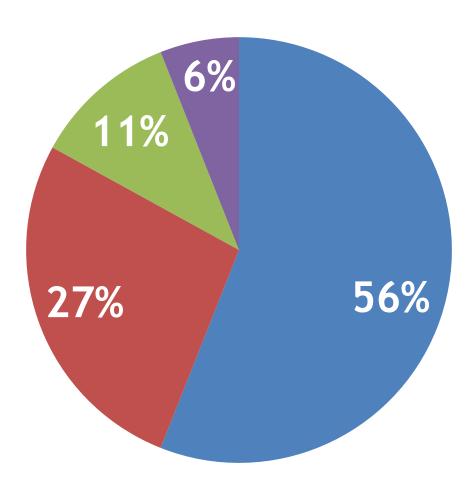
# THROUGH

**EXPORTS** 

120.6 million tons

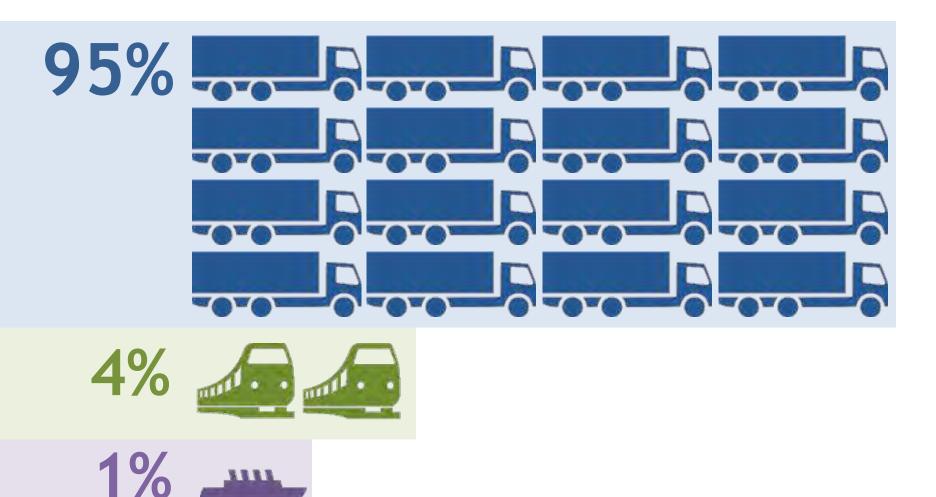
23.1 million tons

# What is Moving? Top Commodities



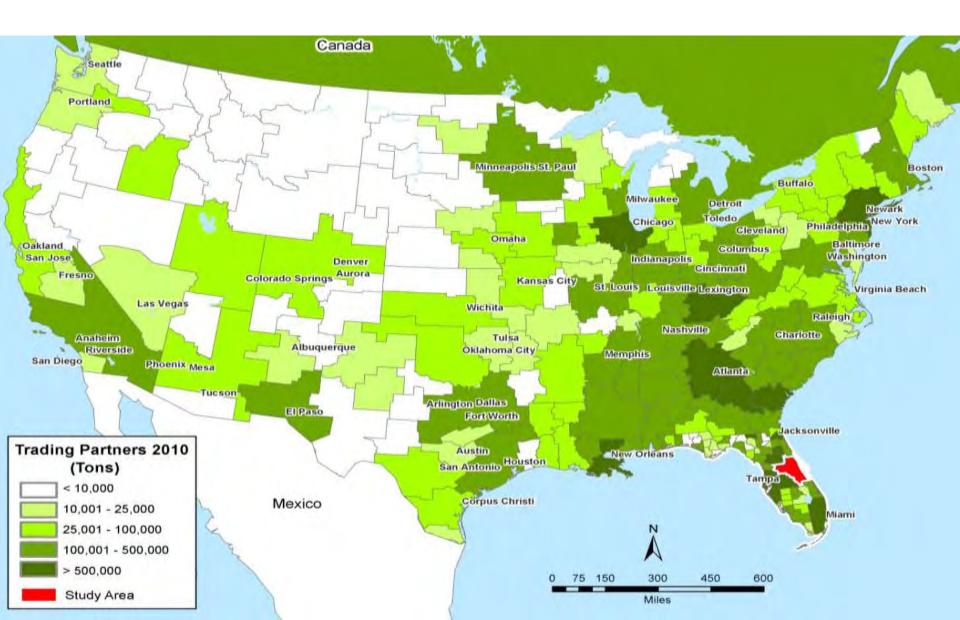
- Construction Materials
  - Non-metallic ores & minerals
  - Clay, concrete, glass, stone
  - Wood products
- Consumer Goods
  - Warehoused products
  - Food
  - Printed materials
  - Farm products
- Fuels & Chemicals
  - Petroleum
  - Coal
  - Chemicals
- Other

# How is Freight Moving?



<0.1% 🛧

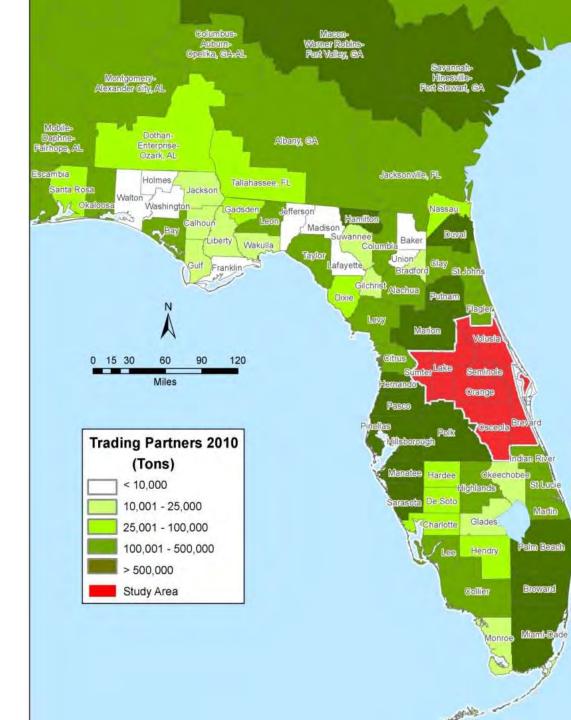
# Who are our trading partners?

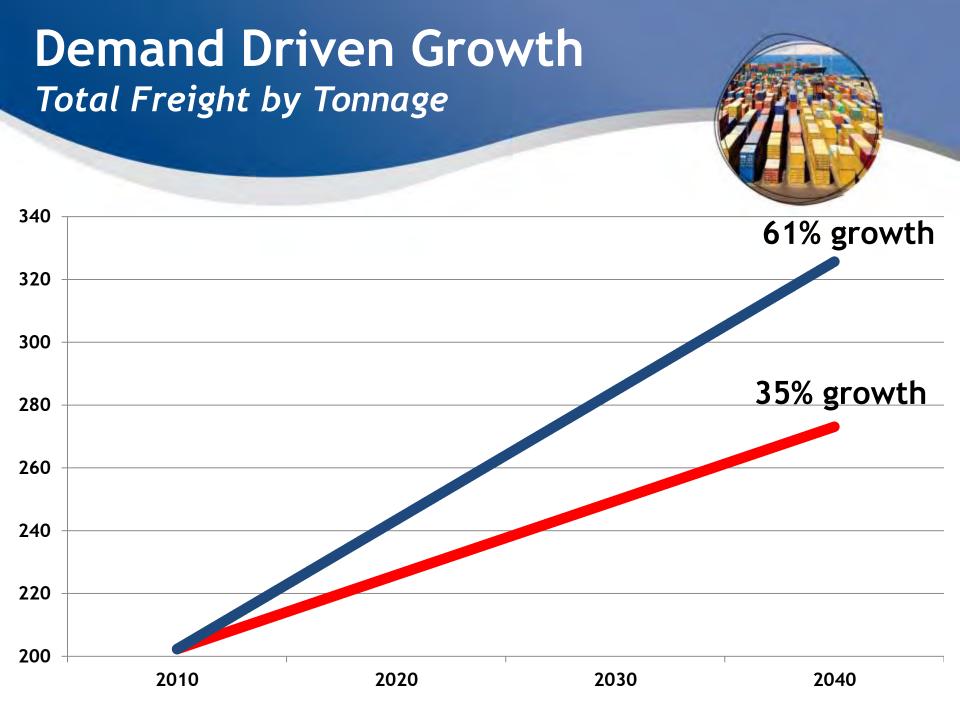


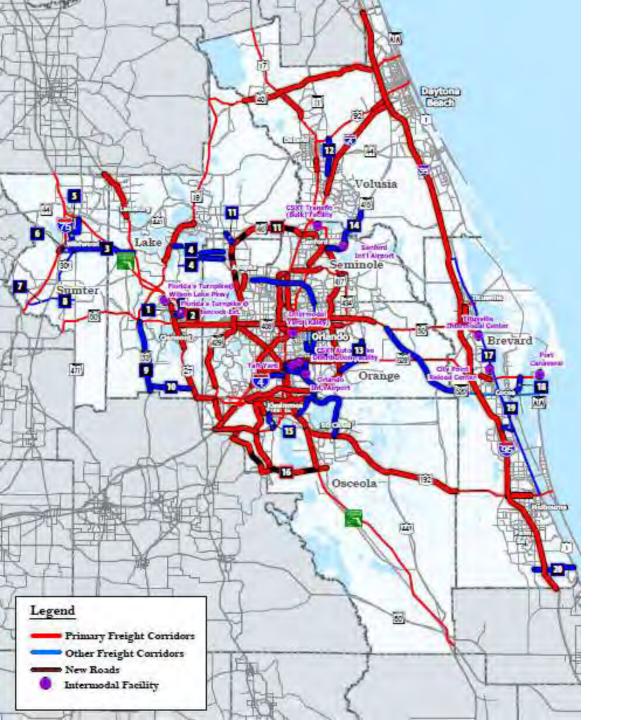
# Significant Florida & S.E. Trade

#### **TOP 10 TRADING PARTNERS**

Miami-Dade County, FL Marion County, FL Polk County, FL Hillsborough County, FL Atlanta, GA Duval County, FL Lexington, KY Hernando County, FL Hamilton County, FL Savannah, GA Other







Central Florida Regional Freight Subsystem

# Intermodal Logistic Centers & Freight Villages

Preserving existing industrial areas while mitigating community impact/concerns

Improved efficiency and connectivity







# Alex Trauger Manager of Long Range Planning

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### www.metroplanorlando.com



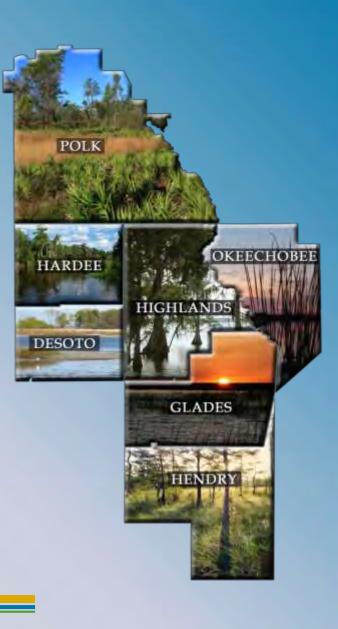
# Building a Resilient Region

heartland2060

Patricia M. Steed

**Executive Director** 

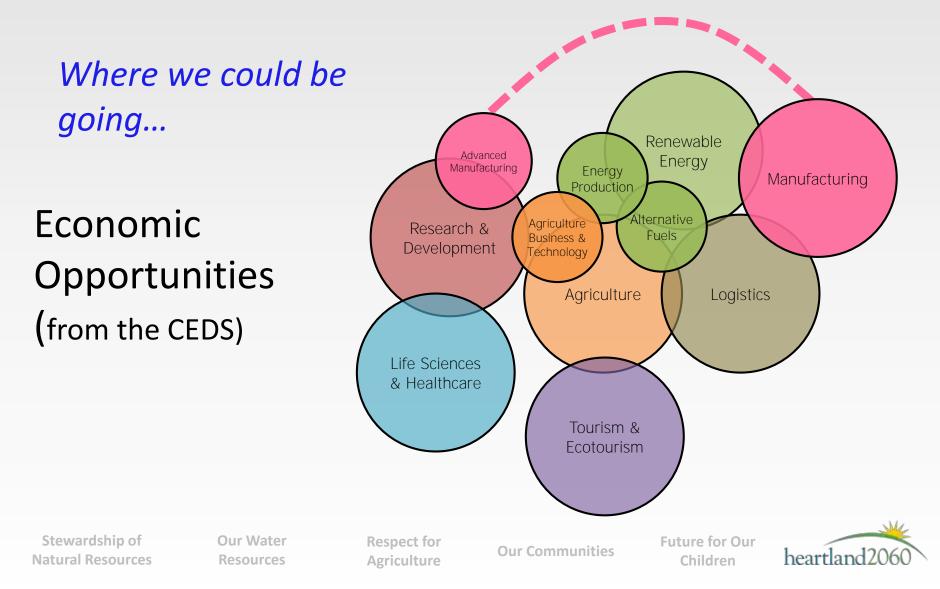
**Central Florida Regional Planning Council** 



### Major Employers, 2011

_			DeSoto			
	Wal-Mart Distribution (502)	DeSoto Medical Hospital (300)	Peace River Citrus (140)	Bethel Farms (87)	Sorrels Bros Packing (75)	
			Glades			
	Moore Haven Correctional (219)	Lykes Bros (100)	Brighton Seminole Bingo (80)	Glades Electric Co-op (65)	A Duda & Sons (25)	
_			Hardee			
	Florida Institute for Rehabilitation (550)	Walmart (288)	MOSAIC (277)	C.F. Industries (175)	Peace River Electric (137)	
			Hendry			
	US Sugar Corp (1,800)	Southern Gardens (261)	A Duda & Sons (250)	Hendry Hospital Authority (140)	Alico Citrus/Cattle (128)	
_			Highlands			
F	lorida Hospital Heartland (1,300)	Highlands Regional Medical Center (500)	Cross Country Auto Services (500)	Wal-Mart (450)	Medical Data Systems (387)	
			Okeechobee			
	Columbia Raulerson Hospital (365)	Walpole, Inc. (300)	Larson Dairy, Inc. (225)	McArthur Farms, Inc. (160)	Okeechobee Health (140	
			Polk			
	Publix Super Markets (9,500)	Wal-mart (5,100)	Lakeland Regional Medical Center (4,600)	MOSAIC (4,500)	Winter Haven Hospital (2,500)	
		Healthcare S	ector Natural Reso	ources Sector		
wardsl	hip of Our W sources Resou	interpreter in the preter in t	OCCICC: LIF	terprise Florida, 2008. Top Children	Private Employers by	

# **The Heartland Tomorrow...** Future Industry Clusters



### **Current Economy**

# A future that... **Resembles the Present.**

*"If we continue with business-as-usual, including healthcare, natural resources, and ecotourism, then we can expect our future to look like..."* 



- Following current and historical trends in:
  - population
  - employment
  - land use
- Continuing economic
  prominence of
  agriculture, healthcare,
  mining, warehousing,
  ecotourism, and service
  industries

Stewardship of Natural Resources Our Water Resources Respect for Agriculture

**Our Communities** 

Future for Our Children



# Goals guide Scenarios = ENERGY

### Solar Farm Alternative Fuel Crops







# **Energy Economy**

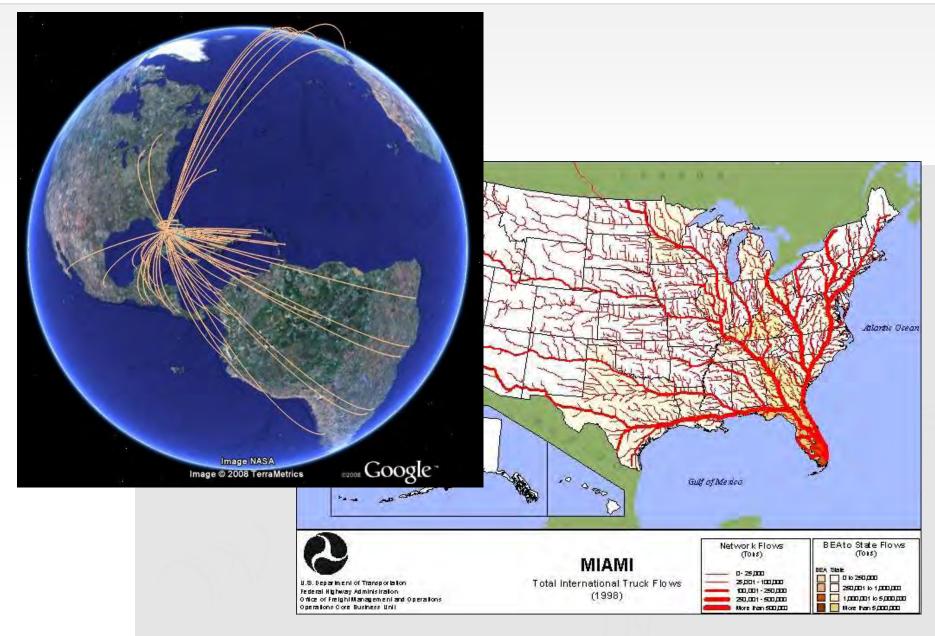
# A future that is... Focused on Energy.

"If we focus on supplying technologies and goods that create energy and become energy exporters, then we can expect our future to look like..."



- Developing an alternative fuels industry based on agriculture
- Manufacturing and installing renewable energy technologies
- Using high-tech energy technologies to become an energy exporter
- Energy efficiency and conservation technologies

# Goals guide Scenarios = TRADE



### Trade Economy

# A future that is... Making & Moving Goods.

*"If we focus on employment hubs for manufacturing, transportation, and warehousing, then we can expect our future to look like..."* 



- Using current and future industrial areas and logistics and trade networks
- Maintaining high capacity transportation networks for moving goods
- Enhancing distribution of air cargo
- Connecting ports
- Establishing advanced manufacturing and warehousing facilities



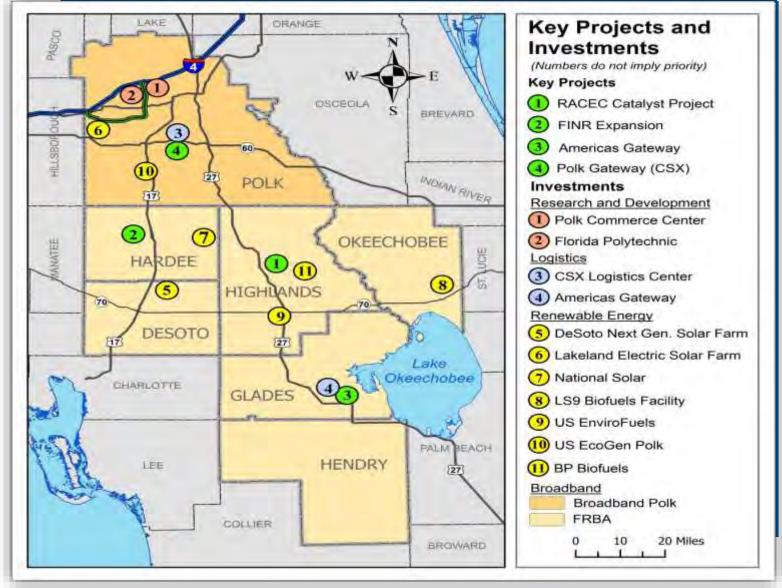
### **ECONOMIC DEVELOPMENT DISTRICTS** Florida's 11 Regional Planning Councils

- Economic Development Districts
- Each region has an adopted
   Comprehensive
   Economic Development
   Strategy (CEDS)





#### **Regional Economic Development Investments**





#### Ensuring Multi-Modal Connectivity: Future connections, future choices







**Develop** transportation systems to support a prosperous, globally competitive economy and improves the quality of life for Heartland residents while minimizing impacts to the natural environment.



#### Cross-Modal Integration = Florida's Future? Urban + Rural, Coastal + Inland, Region to Region

#### Ocean transit





Rail line-haul



#### Distribution center



#### Highway delivery





Inland Rail Terminal



-ong Tern

#### **Regional Logistics and Trade Clusters**

<u>ี</u>ม ม

Region

AC

strategic



Consisten

# **Readying the State for** *One Florida*



Positioning State as National Gateway

Consistent modal metrics & reporting

Connecting Transportation to Economic Goals



Real-time data & transponder based

MApp2 Cloud or other Web-based

Modeling that recognizes cross borders and costs



Plans & Programs to encourage partners

Public Private Partnerships (P3)

Build trust with ports, 3PLs, MPOs, & stakeholders

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September 11, 2013 Florida APA Conference

**Questions & Answers**