2040 Southeast Florida Regional Freight Plan

Presented to
Palm Beach MPO Board

Presented by
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Cambridge Systematics, Inc.

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Southeast Florida Has Made Significant Investments

- Martin Luther King Blvd
- Port of Palm Beach Slip Redevelopments
- SR 80 Improvements
- SR 826/836 Interchange
- Eller Drive Overpass
- 595 Truck Stop
- Port Miami Tunnel
- Port Miami Dredging
- NW 25th St Viaduct Phase II
- ICTF at Port Everglades and Port Miami
- South Port Turning Notch
- FLL Runway Extension
- Centurion’s new 800K sqft air cargo centre at MIA
Our 2014 Southeast Regional Freight Plan Update is Positioning Us for Continued Growth

- Screens regional highway network for key freight bottlenecks
- Reviews capital needs for our airports, seaports and railroads
- Provides updated list of prioritized freight needs
- Estimates economic impacts generated by the freight industry
- Summarizes and incorporates key freight and logistics initiatives to help position the region as a global logistics hub
- Tells our freight story
Freight Industry has Significant Impact on Southeast Florida’s Economy

Direct Impacts of Freight Industry in Southeast Florida, 2012

<table>
<thead>
<tr>
<th>Metric</th>
<th>For-Hire</th>
<th>In-House</th>
<th>Total Direct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jobs</td>
<td>253,418</td>
<td>25,410</td>
<td>278,828</td>
</tr>
<tr>
<td>Labor Income (millions)</td>
<td>$18,264</td>
<td>$1,050</td>
<td>$19,314</td>
</tr>
<tr>
<td>Average Compensation</td>
<td>$72,070</td>
<td>$41,327</td>
<td>$69,268</td>
</tr>
<tr>
<td>GRP (millions)</td>
<td>$30,244</td>
<td>$1,404</td>
<td>$31,648</td>
</tr>
<tr>
<td>Economic Output (millions)</td>
<td>$51,746</td>
<td>$3,503</td>
<td>$55,250</td>
</tr>
</tbody>
</table>

Source: U.S. Census County Business Patterns, IMPLAN, Cambridge Systematics.

Source: U.S. Census County Business Patterns, IMPLAN, Cambridge Systematics.
MPOs are Stepping Up Freight Investments

- 3 MPOs are looking at new ways to invest in freight projects
  - Palm Beach MPO has a freight commitment of $1.3B in its 2040 LRTP Update for highway projects that benefit freight mobility (including major state investments)
  - Broward MPO has a freight commitment of $338M in its 2040 LRTP Update for highway projects that benefit freight mobility (excluding major state investments)
  - Miami-Dade MPO has a freight set aside of $127M in its 2040 LRTP Update specifically for freight only projects (quick fix, low cost) and over $3B in highway capacity projects that benefit both freight and passenger mobility

<table>
<thead>
<tr>
<th>2040 Freight Set Aside (Millions)</th>
<th>2020</th>
<th>2021-2025</th>
<th>2026-2030</th>
<th>2031-2040</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMA (5%)</td>
<td>$ 1.7</td>
<td>$ 8.4</td>
<td>$ 8.4</td>
<td>$ 16.8</td>
<td>$ 35.3</td>
</tr>
<tr>
<td>Other Arterials (5%)</td>
<td>$ 4.8</td>
<td>$ 21.5</td>
<td>$ 20.3</td>
<td>$ 44.4</td>
<td>$ 91.0</td>
</tr>
<tr>
<td>TRIP (5%)</td>
<td>$ –</td>
<td>$ 0.3</td>
<td>$ 0.3</td>
<td>$ 0.6</td>
<td>$ 1.2</td>
</tr>
<tr>
<td>Total</td>
<td>$ 6.5</td>
<td>$ 30.2</td>
<td>$ 29.0</td>
<td>$ 61.8</td>
<td>$ 127.5</td>
</tr>
</tbody>
</table>
Freight Program has been Built in Cooperation with Key Partners

- Regional Freight Advisory Committee
- Stakeholder interviews
- Truck company survey
- Outreach at regional conferences and committees
Southeast Florida’s Freight Program is Consistent with Key Statewide Initiatives

• Florida’s Transportation Plan
• Florida’s Strategic Intermodal System Plan
• Florida Freight Mobility & Trade Plan
• Florida Trade and Logistics Study
Southeast Florida’s Freight System

- Expressways
- State highways
- Connectors to freight activity centers
- 3 International airports
- 3 Deep water seaports
- 3 Freight railroads
- Miami River
- New River
Truck Percent

- Trucks represent more than 5 percent of total traffic for much of the region’s state highway system.
- This percent increases as you move south into Miami-Dade County.
Palm Beach’s Top Commodities Moving by Truck

- Farm Products: 38%
- Secondary Traffic: 20%
- NonMetallic Minerals: 11%
- Clay, Concrete, Glass, or Stone: 8%
- Food or Kindred Products: 8%
- Waste or Scrap Materials: 3%
- Petroleum or Coal Products: 2%
- Chemicals or Allied Products: 1%
- Lumber or Wood Products: 1%
- Printed Matter: 5%
- All Others: 1%

Source: Transearch, 2011.
Palm Beach’s Commodity Flows by Type of Movement for Truck

Source: Transearch, 2011.
Southeast Florida Rail System

- Three rail operators serving the region
- Key connections planned and underway
- Possible new corridor under consideration

FREIGHT RATIONALIZATION OPPORTUNITIES Between FEC and CSX

- NORTHWOOD CONNECTION In Design Phase Thru 2014
- POMPANO CONNECTION Not Funded
- IRIS CONNECTION In Design Phase Thru 2014
Port of Palm Beach is Growing

- Serves as a niche container port serving smaller ports in the Caribbean and Central America
- Infrastructures investments underway and planned to grow capacity
- Forecasts suggest steady growth for next 10 years
PortMiami Is Growing

- Economic recovery underway
- Major infrastructure investments complete or underway
- Forecasts suggest doubling or tripling of cargo over 20 years
Port Everglades is Growing

- Serves as gateway for petroleum products consumed in 14 South Florida counties
- Major infrastructures investments complete or underway to grow containers, petroleum, breakbulk and cruise passenger business
- Forecasts suggest doubling of containerized cargo over 20 years
Miami International is Growing

- Major cargo investment plan largely complete
- Centurion’s new 800K sqft air cargo centre at MIA open for business
- NW 25th St Viaduct Phase I complete and Phase II under construction
- Forecasts call for significant growth over next 20 years
Truck Parking Remains a Key Consideration

- 595 Truck Stop is South Florida’s only full service facility
- Miami-Dade MPO has completed two phases of a truck parking study to identify the need for truck parking
- FDOT has study under way to investigate feasibility of full service truck stop/parking on state owned land at one identified site at the northwest corner of Turnpike and NW 12th St
- Other private developers remain interested
South Bay/Belle Glade Opportunities Include a Logistics Campus/ILC
## Top Roadway Priorities in Palm Beach County

<table>
<thead>
<tr>
<th>Facility</th>
<th>From</th>
<th>To</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-95 Managed Lanes System</td>
<td>South Palm Beach County Line</td>
<td>Linton Blvd</td>
<td>4 Managed Lanes/widening I-95</td>
</tr>
<tr>
<td>I-95</td>
<td>South Palm Beach County Line</td>
<td>North Palm Beach County Line</td>
<td>ITS - Freeway Management</td>
</tr>
<tr>
<td>I-95</td>
<td>South Palm Beach County Line</td>
<td>North Palm Beach County Line</td>
<td>ITS - Severe Incident Response Vehicle</td>
</tr>
<tr>
<td>SR 708 / Blue Heron Boulevard</td>
<td>I-95</td>
<td></td>
<td>Add turn lanes to I-95 NB and SB off-ramps</td>
</tr>
<tr>
<td>SR 80 / Southern Boulevard</td>
<td>Royal Palm Beach Boulevard</td>
<td>Dixie Highway</td>
<td>ITS Freeway Management</td>
</tr>
<tr>
<td>SR 708 / Blue Heron Boulevard</td>
<td>I-95</td>
<td></td>
<td>Install new DMS sign</td>
</tr>
<tr>
<td>US 27</td>
<td>Krome Avenue</td>
<td>South Bay</td>
<td>Traffic operational improvements including wider shoulders and lighting</td>
</tr>
<tr>
<td>Belvedere Road</td>
<td>I-95</td>
<td></td>
<td>Interchange Improvements</td>
</tr>
<tr>
<td>SR 710</td>
<td>Military Trail</td>
<td>Congress Avenue</td>
<td>Modify Highway Connector</td>
</tr>
<tr>
<td>SR 710</td>
<td>Congress Avenue</td>
<td>Old Dixie Highway</td>
<td>Segment Improvements - add lanes and reconstruct</td>
</tr>
<tr>
<td>45th Street</td>
<td>I-95</td>
<td></td>
<td>Install new DMS sign</td>
</tr>
<tr>
<td>I-95</td>
<td>10th Avenue N</td>
<td></td>
<td>Interchange - Add lanes</td>
</tr>
<tr>
<td>Garden Road</td>
<td>Investment Lane</td>
<td>Blue Heron Boulevard</td>
<td>Add one turning-lane or pave east shoulder</td>
</tr>
<tr>
<td>Atlantic Avenue</td>
<td>I-95</td>
<td></td>
<td>Add turn lanes on NB and SB on and off-ramps</td>
</tr>
<tr>
<td>SR 710</td>
<td>Old Dixie Highway</td>
<td></td>
<td>Turn radii improvements</td>
</tr>
<tr>
<td>US 27 Connector</td>
<td>SR 80/US 27</td>
<td>SR 715</td>
<td>New 4 lane roadway</td>
</tr>
<tr>
<td>SR 7 / US 441</td>
<td>SR-700</td>
<td>Palm Beach / Martin County Line</td>
<td>Widen from 2 to 4 lanes</td>
</tr>
<tr>
<td>10th Avenue N</td>
<td>Boutwell Road</td>
<td>I-95</td>
<td>Segment Improvements</td>
</tr>
<tr>
<td>Florida’s Turnpike</td>
<td></td>
<td></td>
<td>Implement Open Road Tolling</td>
</tr>
<tr>
<td>I-95</td>
<td>North of 6th Avenue</td>
<td>Lake Worth Road</td>
<td>Skid hazard overlay</td>
</tr>
<tr>
<td>I-95</td>
<td>PGA Boulevard</td>
<td></td>
<td>Modify Interchange</td>
</tr>
<tr>
<td>SR 708 / Blue Heron Boulevard to Congress</td>
<td>I-95</td>
<td>Port Entrance</td>
<td>Segment Improvements</td>
</tr>
<tr>
<td>Glades Road</td>
<td>Butts Road</td>
<td>FAU Boulevard</td>
<td>Widen from 6 to 8 lanes</td>
</tr>
<tr>
<td>I-95</td>
<td>Hypoluxo Road</td>
<td></td>
<td>Interchange improvements</td>
</tr>
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</table>
Needs Were Identified and Prioritized for the Other Modes

<table>
<thead>
<tr>
<th>Seaport</th>
<th>Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPB</td>
<td>Intermodal Cargo Transfer/Passenger Service Facility</td>
</tr>
<tr>
<td>PPB</td>
<td>Off Port Intermodal Rail Improvements</td>
</tr>
<tr>
<td>PPB</td>
<td>On Port Intermodal Rail Improvements</td>
</tr>
<tr>
<td>PPB</td>
<td>Harbor &amp; Channel Improvements</td>
</tr>
<tr>
<td>PPB</td>
<td>Waterside Cargo Terminal Redevelopment</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Airport</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBI</td>
<td>Palm Beach International Cargo Facilities Access</td>
</tr>
<tr>
<td>PBI</td>
<td>Taxiway C Rehab</td>
</tr>
<tr>
<td>LNA</td>
<td>Rehab Itinerant Apron</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rail</th>
<th>Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCFE</td>
<td>South Central FL Express Cane Block</td>
</tr>
<tr>
<td>FEC</td>
<td>C-15 Hidden Valley Canal Rail Bridge (between Yamato and Linton)</td>
</tr>
<tr>
<td>CSX</td>
<td>CSXT Positive Train Control</td>
</tr>
</tbody>
</table>
Key Strategies

• Promote economic contributions of freight and logistics industry
• Maximize use of available funding programs
• Evaluate the effectiveness of the freight system
• Support advancement of solutions for missing freight links
• Engage the freight community in the identification of freight bottlenecks
• Ensure trade and logistics remain targeted industries
• Support work force development programs
• Leverage investments through public private partnerships
• Continue to develop, test and expand pilot programs
• Monitor ILC developments and partner as appropriate
• Promote regional freight mobility
Our Ability to Incorporate Freight Priorities into Our Regional Plan is Critical to Our Future

- South Florida is home to a well established, globally competitive logistics industry

- Billions of dollars have been invested over last several years to ensure we remain competitive

- We are well positioned for significant growth as global trade patterns continue to shift

- Our economic prosperity and the sustainability of our communities will be strengthened and driven by our success as a global logistics hub
Questions?

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