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# Innovative Methods to Include Small Budget Transportation Projects in the LRTP Process

- The last or first mile projects
- The non-line item projects

# Rai·son d'ê·tre (The Evolution)

- The Public Input: Transportation Survey



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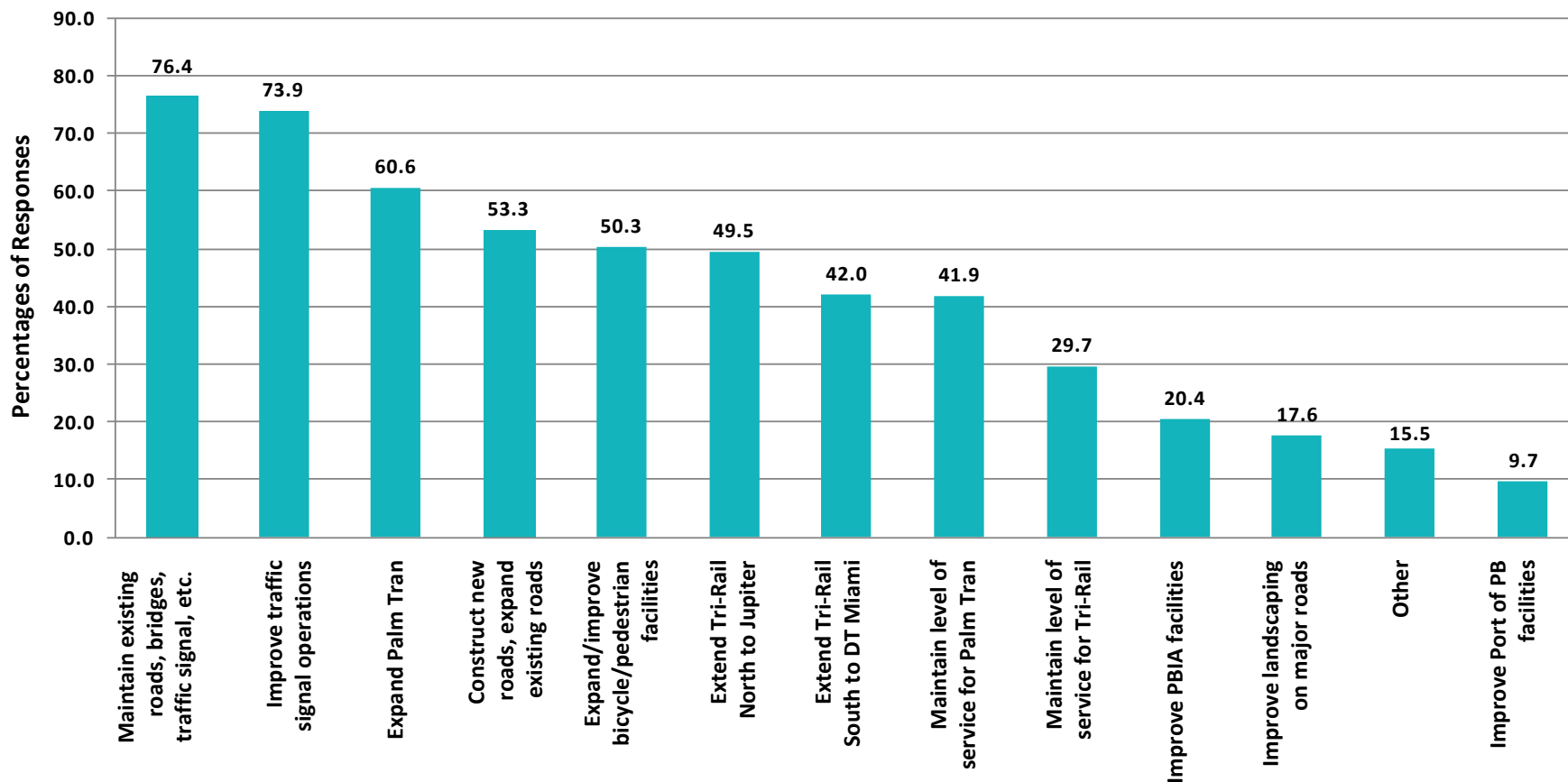
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[illegible]

## 482 RESPONSES

# Rai·son d'ê·tre (The Evolution)

**Local Transportation Priorities: Percent of Total Responses that Rank A Priority in Top 5**



# Rai·son d'ê·tre (The Evolution)

## SERPM6.5 Model Run

- 2040 Socio-economic data
- The existing (2013 network) plus committed projects ( upto 2018 from the TIP)

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**DIRECTIONS  
2040**

Palm Beach



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Long Range Transportation Plan

# Model Deficiencies

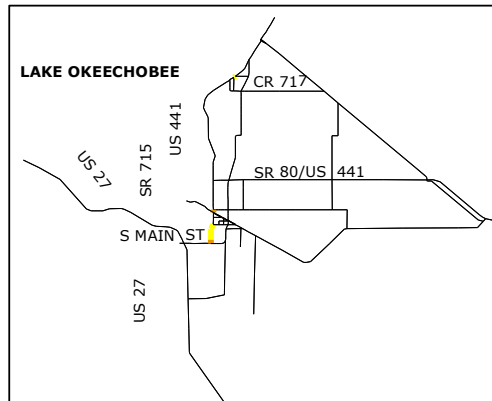
**DIRECTIONS  
2040**

Palm Beach 2040 Long Range Transportation Plan

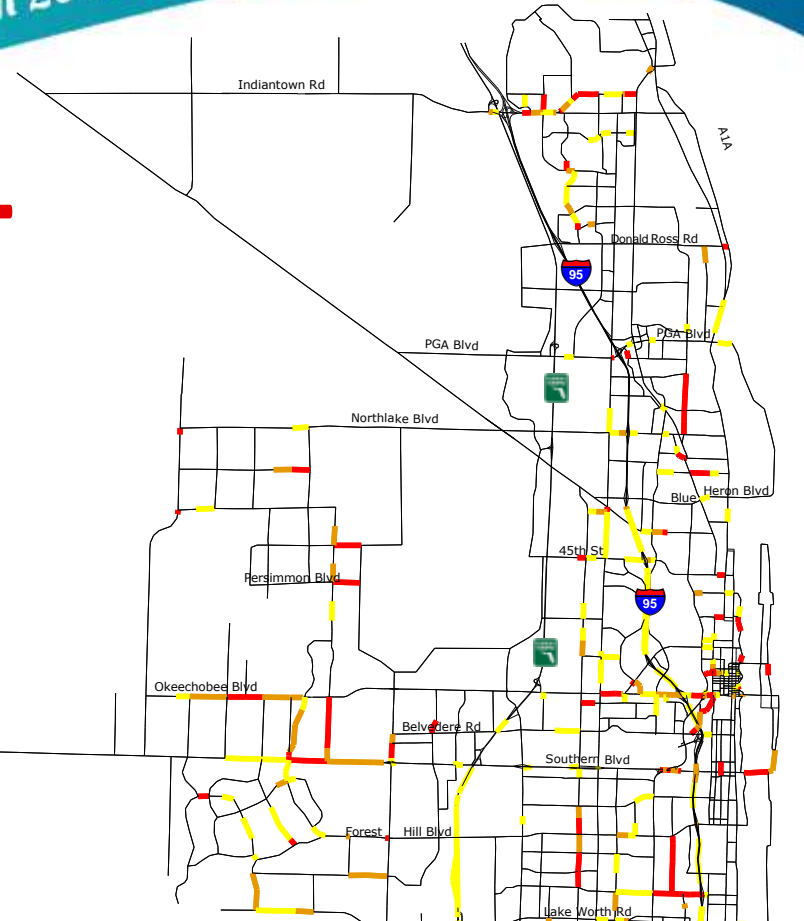


**DRAFT**

## GLADES AREA



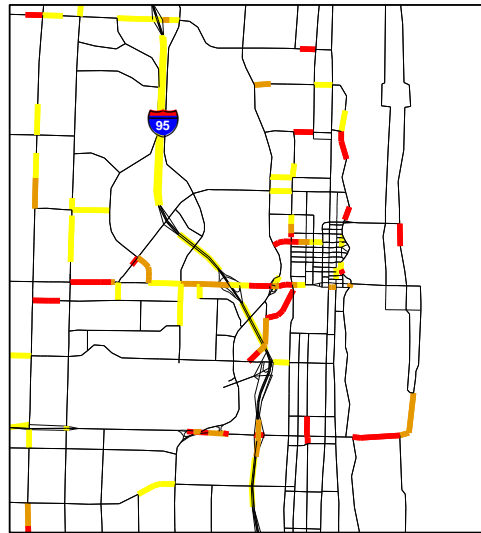
Seminole Pratt Whitney Rd



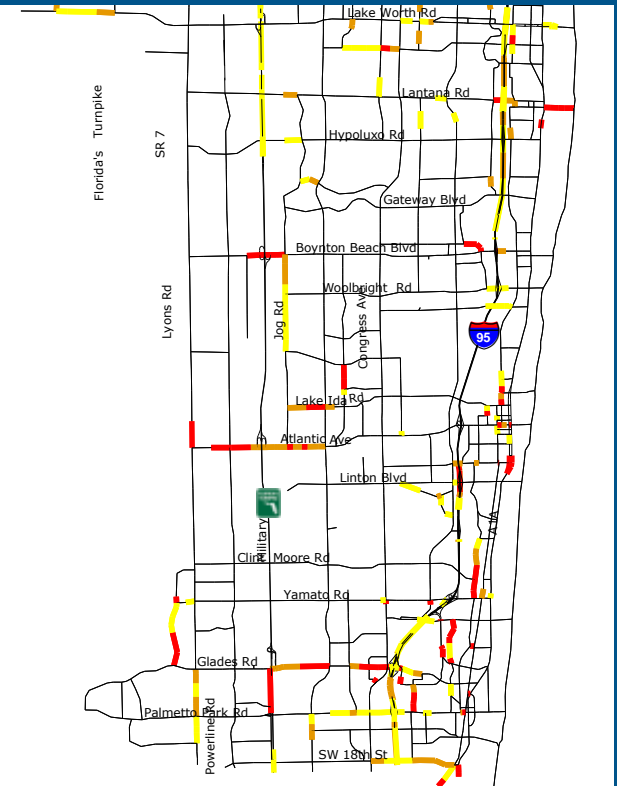
North Half


# Model Deficiencies

## WEST PALM BEACH AREA



## Model Adjusted Volume Over Model Capacity Ratio



	LEGEND	NOTES
	<b>Volume Over Capacity Range</b> <ul style="list-style-type: none"> <li>1.0 - 1.1</li> <li>1.1 - 1.2</li> <li>&gt; 1.2</li> </ul>	SERPM v6.5 Model with 2040 Socio-economic Data and 2018 E+C Network
 <b>Leftwich Consulting Engineers, Inc.</b>		

03/13/14

N:\PROJECTS\12012\_PB2040LRTP\GIS\Needs\V Over C\V Over C - 2040.mxd

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# Rai·son d'ê·tre (The Evolution)

Projects from model : volume by capacity ratio  $> 1.2$

- Physically restrained : ROW issues
- Policy restrained : No political support
- Cost prohibitive
- Not consistent with local plans

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# Why don't they get it?



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# THE OUTCOME

- Based on public input and the constraints in implementing capacity projects, the MPO had to think out of the box and focus on small projects

## The Problem:

- Federally Funded Projects in the TIP must be consistent with the LRTP
- These projects are too small to be listed explicitly in LRTP as line items

## The Solution:

- The “Transportation Management Area” or ‘SU’ Funds (Federal funds primarily managed by the MPOs) in the LRTP was entirely allocated for these small projects
- Palm Beach gets about \$17 millions annually

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# THE OUTCOME

- A project is defined as small if it is less than \$5 mils
- These small projects were called as 'Local Initiatives' because the plan was to get these projects from the local governments on an annual basis
- The 'Technical Advisory Committee' and 'Citizens Advisory Committee' were tasked to prioritize the projects received based on Goals, Objectives & Values.
- The Local Initiatives were subdivided into four categories
  1. Transportation System Management
  2. Transit
  3. Non-Motorized
  4. Freight (Airport/Seaport/Railroad)

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# THE OUTCOME

PALM BEACH MPD 2040 LRTP - DRAFT PROJECT SCORING

Value	Category	Max	Criteria	Value	Scoring
					Near CBD Non CBD
1 & 6	Safety, Security and Complete Streets	15	Project improves non-motorized safety by providing: Project improves vehicular safety (project must demonstrate)	buffered bike lanes 10'± shared-use pathways designated bike lanes new sidewalks	8 4 6 3 4 2 2 1
		5	Project improves performance of hurricane evacuation route Project mitigates impacts of sea level rise		3 2
2	Maintenance	10	Project improves infrastructure in unacceptable condition with widespread advanced signs of deterioration; potential imminent failure Project improves infrastructure in poor condition and mostly below standard, approaching the end of its service life, exhibiting significant deterioration and of strong risk of failure Owner/operator provides commitment to fund O&M of capacity expansion		10 8 5
3	TSM&D	10	Project implements TSM strategies in lieu of capacity improvements Capacity project improves Thoroughfare intersection(s) Capacity project expands fiber optic traffic signal network Capacity project expands CCTV camera coverage area on principal arterials		10 5 3 2
4	Project Benefit and Leveraged Funds	5	Benefit/Cost Ratio or Return on Investment	>5 4-5 3-4 2-3 1-2	5 4 3 2 1
		5	Other public or private cash funds in project	50% 25%	5 3
5	Equity	5	Median income of benefit area vs P&C median income	< 60% 60 - <80% 80% - <100%	5 3 1
		5	Traditionally underserved population percentage in benefit area	>80% >60 - 80% >40% - 60% >20% - 40% 5-20%	5 4 3 2 1
7	Economic Development	10	Project provides necessary infrastructure to support planned growth Project is consistent with all applicable local comprehensive plans Project documents local support from all affected parties		5 3 2
8	Regional Freight	5	Project improves capacity on congested SIS facility/connector	v/c > 1.2 v/c > 1.1 v/c > 1	5 3 1
		5	Project improves capacity on congested non-SIS truck route	v/c > 1.2 v/c > 1.1 v/c > 1	5 3 1
9	Non-motorized Connectors	10	Project improves non-motorized facilities at an interchange, bridge, or railroad crossing Project improves non-motorized facilities on Thoroughfare within 2 miles of a transit hub		6 4
10	Efficient Transit	10	Project improves service at a transit hub Project reduces transit travel time between transit hubs		6 4

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# THE OUTCOME

## Two Funding Concepts:

- **“Project-Specific” Funds:** The LRTP will allocate funds for select identified projects with costs exceeding \$5M
- **“Local Initiative” Funds:** The LRTP will set aside annual categorical funds for projects costing less than \$5M

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# LOCAL INITIATIVES

- Examples of TSM, Transit, Non-Motorized and Freight Improvements
  - TSM Corridor Improvement (ITS, complete streets, etc.)
  - TSM Intersection Improvement
  - Bus Purchase for Express Version of Existing Palm Tran Routes
  - Vehicle and/or Shelter Capital Funds for New Local Trolley Service
  - Restripe or Widen Roadway to Provide Designated Bike Facilities
  - Construct Shared Use Pathway
  - Enhance Access to Freight Hubs
  - Improve Freight Rail Capacity

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## CORRIDOR IMPROVEMENT

### EXAMPLE: US 1 FROM BEACH ROAD TO MARTIN COUNTY LINE

#### Recommendation:

Reduce vehicular lanes to provide premium bicycle facilities.

#### Supporting Information

Current Peak Season Traffic = 24,400

Projected 2040 Daily Traffic = 32,700

LOS D Threshold for 4-Lanes = 33,200

US 1 statewide is a designated bike route and part of the US Bicycle Route system. This portion of the corridor has excess vehicular lanes and inadequate bicycle lanes.



#### OTHER EXAMPLES OF CORRIDOR IMPROVEMENTS INCLUDE:

Paving unimproved rights of way, improving signal coordination, improving signage/DMS systems, reducing access points, increasing turning radii, adding turn lanes, installation of ITS equipment, etc.

## INTERSECTION IMPROVEMENT

### EXAMPLE: INTERSECTION OF MILITARY TRAIL AND PGA BLVD

#### Recommendation:

Construct an exclusive southbound right turn lane.

#### Supporting Information

Current SB Rt Turn Vol = 300+ vph

Exclusive Rt Turn Ln Warrant = 75 vph

This intersection is congested and the heavy right turn movement is noted from the pavement wear and tear patterns.



#### OTHER EXAMPLES OF INTERSECTION IMPROVEMENTS INCLUDE:

Installing warranted traffic signals, improving bike and pedestrian safety, improving signal timing and/or detection hardware, improving turning radii, etc.

**Note:** Additional TSM&O projects include roadway landscaping, installation of street lighting, installation of electric charging stations, etc.

**For Informational Purposes Only:** These projects are provided as examples only. Actual projects funded in this category will be determined by the MPO Board.

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### PALM TRAN IMPROVEMENT

#### EXAMPLE: EXPRESS BUS ON OKEECHOBEE BLVD

##### Recommendation:

Add an express version of Palm Tran Route 43.



### TROLLEY IMPROVEMENT

#### EXAMPLE: TROLLEY ALONG INDIANTOWN RD BETWEEN I-95 AND THE BEACH

##### Recommendation:

Add a trolley along Indiantown Rd between I-95 and the beach.



**Note:** Additional Transit projects include new local bus service, extension of local bus service, increase local bus frequency, etc.

**For Informational Purposes Only:** These projects are provided as examples only. Actual projects funded in this category will be determined by the MPO Board.



### NON-MOTORIZED IMPROVEMENT

EXAMPLE: AUSTRALIAN AVE FROM OKEECHOBEE BLVD TO 45TH ST

#### Recommendation:

Widening the roadway to provide designated bike lanes.



### NON-MOTORIZED IMPROVEMENT

EXAMPLE: BOYNTON BEACH BLVD FROM CONGRESS AVE TO N FEDERAL HWY

#### Recommendation:

Provide designated bike lanes.



**Note:** Additional Non-Motorized projects include adding shoulders, doing detailed corridor studies to determine bike/pedestrians needs, etc.

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## AVIATION IMPROVEMENT

### EXAMPLE: PBIA ROADWAY SIGNAGE AND LANDSCAPING

#### Recommendation:

Provide improved roadway signage and landscaping surrounding the Palm Beach International Airport.



## PORT OF PALM BEACH IMPROVEMENT

### EXAMPLE: POPB INTERMODAL RAIL IMPROVEMENTS

#### Recommendation:

Provide on- and off-port intermodal rail improvements at Port of Palm Beach.



**Note:** Additional Freight projects include cargo expansion, rehabilitation of taxiways, air cargo apron rehabilitation, etc.

**For Informational Purposes Only:** These projects are provided as examples only. Actual projects funded in this category will be determined by the MPO Board.

# CONCLUSION

- For 2014 we received 26 projects that were prioritized by the TAC & CAC.
- Prioritized projects will be included in the 2016-20 TIP that will go in front of the MPO Board next June for approval
- These projects will be programmed for implementation by FDOT in the year 2020

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# Questions???



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