

Coco Vista Centre 466 SW Port St. Lucie Blvd, Suite 111 Port St. Lucie, Florida 34953 772-462-1593 www.stlucietpo.org

CITIZENS ADVISORY COMMITTEE (CAC)

Regular Meeting

Tuesday, July 23, 2024 10:30 am

Public Participation/Accessibility

Participation in Person: Public comments may be provided in person at the meeting. Persons who require special accommodations under the Americans with Disabilities Act (ADA) or persons who require translation services (free of charge) should contact the St. Lucie TPO at 772-462-1593 at least five days prior to the meeting. Persons who are hearing or speech impaired may use the Florida Relay System by dialing 711.

Participation by Webconference (not intended for Committee Members): Using a computer or smartphone, register at https://attendee.gotowebinar.com/register/7676565225288026460. After the registration is completed, a confirmation will be emailed containing instructions for joining the webconference. Public comments may be provided through the webconference chatbox during the meeting.

Written and Telephone Comments: Comment by email to TPOAdmin@stlucieco.org; by regular mail to the St. Lucie TPO, 466 SW Port St. Lucie Boulevard, Suite 111, Port St. Lucie, Florida 34953; or call 772-462-1593 until 10:00 am on July 23, 2024.

AGENDA

- 1. Call to Order
- 2. Roll Call
- 3. Comments from the Public
- 4. Approval of Agenda
- 5. Approval of Meeting Summaries
 - March 19, 2024 Regular Meeting
 - May 21, 2024 Regular Meeting
- 6. Action I tems
 - 6a. Project Development and Environment Study (PD&E) for Widening Florida's Turnpike from State Route 70 (Okeechobee Road) to State Route 60 (Yeehaw Junction): An update by Florida's Turnpike on the PD&E for the widening of the Turnpike from State Route 70 to State Route 60.

Action: Recommend endorsement of the PD&E alternatives, recommend endorsement with conditions, or do not recommend endorsement.

6b. Congestion Management Process (CMP) Major Update: Review of the draft CMP Major Update.

Action: Recommend adoption of the draft CMP Major Update, recommend adoption with conditions, or do not recommend adoption.

7. <u>Discussion Items</u>

7a. Transportation Asset/Service Vulnerability Assessment Update: A presentation on the development of the St. Lucie County Community Resilience Plan.

Action: Discuss and provide comments.

- 8. Recommendations/Comments by Members
- 9. Staff Comments
- 10. Next Meeting: The next St. Lucie TPO CAC meeting is a regular meeting scheduled for 10:30 am on Tuesday, September 17, 2024.
- 11. Adjourn

NOTICES

The St. Lucie TPO satisfies the requirements of various nondiscrimination laws and regulations including Title VI of the Civil Rights Act of 1964. Public participation is welcome without regard to race, color, national origin, age, sex, religion, disability, income, or family status. Persons wishing to express their concerns about nondiscrimination should contact Marceia Lathou, the Title VI/ADA Coordinator of the St. Lucie TPO, at 772-462-1593 or via email at lathoum@stlucieco.org.

Items not included on the agenda may also be heard in consideration of the best interests of the public's health, safety, welfare, and as necessary to protect every person's right of access. If any person decides to appeal any decision made by the St. Lucie TPO Advisory Committees with respect to any matter considered at a meeting, that person shall need a record of the proceedings, and for such a purpose, that person may need to ensure that a verbatim record of the proceedings is made which includes the testimony and evidence upon which the appeal is to be based.

<u>Kreyol Ayisyen</u>: Si ou ta renmen resevwa enfòmasyon sa a nan lang Kreyòl Aysiyen, tanpri rele nimewo 772-462-1593.

Español: Si usted desea recibir esta información en español, por favor llame al 772-462-1593.



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CITIZENS ADVISORY COMMITTEE (CAC)

REGULAR MEETING

DATE: Tuesday, March 19, 2024

TIME: 10:30 am

MEETING SUMMARY

1. Call to Order

Chairwoman Niemczyk called the meeting to order at 10:30 am.

2. Roll Call

The roll was conducted via sign-in sheet, and a quorum was confirmed with the following members present:

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Carolyn Niemczyk, Chairwoman Bud Wild, Vice Chairman Bill Lindsey George Saylor

Richard Silvestri Mazella Smith Ivan Somers

Bertha Sullivan

Representing

At Large

Unincorporated County Disabled Residents

Port St. Lucie

Unincorporated County

Fort Pierce At Large

Minority Residents

Others Present

Peter Buchwald

Yi Ding

Marceia Lathou Stephanie Torres Rachel Harrison James Brown

Victoria Williams (via web)

Dan Zrallack

Representing

St. Lucie TPO

St. Lucie TPO

St. Lucie TPO St. Lucie TPO

Recording Specialist Florida's Turnpike

Florida's Turnpike

St. Lucie County

- 3. Comments from the Public None.
- 4. Approval of Agenda
- * MOTION by Ms. Smith to approve the agenda.
- ** SECONDED by Mr. Saylor

Carried UNANI MOUSLY

- 5. Approval of Meeting Summary
 - · January 23, 2024 Regular Meeting
- * MOTION by Mr. Saylor to approve the Meeting Summary.
- ** SECONDED by Mr. Silvestri

Carried UNANI MOUSLY

6. Action I tems

6a. Transportation Alternatives Program (TAP) 2024 Grant Application: Review of a TAP grant application for the 2024 cycle.

Mr. Buchwald summarized the types of projects for which TAP funding may be used and explained how and when the \$650,000 of funding available to the St. Lucie TPO for the 2024 grant cycle would be programmed. He indicated that an application had been submitted by St. Lucie County for the Sunrise Boulevard Sidewalk Project, provided details on the project's parameters and cost, and noted that the applicant had requested approximately \$1 million in funding.

Chairwoman Niemczyk questioned the submittal of the Sunrise Boulevard Sidewalk Project given its relatively low ranking on the Transportation Alternatives Priority Project List. Mr. Zrallack explained how other factors had caused the project to be a higher priority than its ranking would suggest, including the recent completion of the Bell Avenue Sidewalk Project and the proximity of several schools. Mr. Silvestri commented on the importance of the sidewalk in light of the development planned for Sunrise Boulevard, and Mr. Zrallack clarified that the developer would be required to install a sidewalk along the property's frontage. Mr. Buchwald subsequently expounded on both the criteria by which projects were ranked and the TAP Grant application process.

In response to Vice Chairman Wild's question, Mr. Buchwald clarified that the funding from the present grant cycle would be available in FY 2027/28. Vice Chairman Wild inquired about the right-of-way for the project, and Mr. Zrallack indicated that it had already been acquired.

- * MOTION by Mr. Silvestri to recommend endorsement of the application.
- ** SECONDED by Ms. Smith

Carried UNANI MOUSLY

6b. FY 2024/25 – FY 2025/26 Unified Planning Work Program (UPWP): Review of the draft FY 2024/25 – FY 2025/26 UPWP for the St. Lucie TPO.

Mr. Buchwald explained the UPWP as a two-year program of transportation planning activities undertaken by the TPO and supported by State and Federal funds. He described the scope and purpose of the UPWP, noting that the next one would take effect in July 2024 and recounted a number of accomplishments from the current work program. Mr. Buchwald detailed the public involvement efforts conducted as part of the UPWP development process and identified several recurring projects and efforts that would continue into the new cycle. Mr. Ding, Ms. Torres, and Ms. Lathou then presented, in turn, the proposed projects they would individually be managing.

In answer to Ms. Smith's question, Ms. Torres explained that the Florida Shared-Use Non-motorized (SUN) Trail was part of the larger East Coast Greenway. Ms. Torres then reported on the efforts to complete the portion of the SUN Trail extending through St. Lucie County. In response to Vice Chairman Wild's question, Ms. Torres clarified which segments of the local SUN Trail had already been completed.

In response to questions from Mr. Silvestri and Vice Chairman Wild, Ms. Torres explained that the proposed Oxbow Eco-Center Pedestrian Link would connect the Eco-Center to the County's preserves on the eastern side of the St. Lucie River. She elaborated on the facility's potential alignment and indicated that the feasibility study for the project would consider several options.

Ms. Sullivan inquired about the parameters of the proposed U.S. Highway 1 Corridor Congestion study. Mr. Ding indicated that the study would likely analyze the segment of U.S. Highway 1 between Crosstown Parkway and the northern boundary of Martin County. Mr. Buchwald explained that comments by TPO Board members had indicated a perception of that segment being the most congested despite FDOT's assurances that the corridor was functioning at an adequate

level of service. Mr. Buchwald then commented on the importance of gathering accurate data.

Chairwoman Niemczyk noted that many of the CAC members' previous comments had resulted in subsequent action.

- * MOTION by Ms. Sullivan to recommend adoption of the draft UPWP.
- ** SECONDED by Mr. Somers

Carried UNANI MOUSLY

7. <u>Discussion I tems</u>

7a. Community Profiles Update: An analysis of Census data for the TPO area that informs and guides the TPO's public outreach to disadvantaged communities.

Mr. Buchwald introduced the agenda item and invited Mr. Ding to continue. Mr. Ding noted the Federal Title VI requirement for MPOs to ensure that traditionally underserved communities were provided with opportunities to meaningfully engage in the transportation planning process, explaining that the development of Community Profiles assisted the TPO in providing those opportunities. He described the methodology by which the update had been completed, a process that included using Census data to identify geographical areas in St. Lucie County with a comparatively high percentage of minority residents, residents with limited English proficiency, residents living below the poverty line, residents living with disabilities, households without a vehicle, and senior residents. Mr. Ding then presented with the aid of a map the geographical areas that had been identified as disadvantaged according to these parameters.

In answer to Chairwoman Niemczyk's question, Mr. Ding and Mr. Buchwald explained that the designation of Census tracts depended upon population density, with rural tracts typically being geographically larger than urban ones.

Chairwoman Niemczyk commented on the significant time interval between Census updates, and Mr. Ding explained that staff also used the data from the annually published American Community Survey to maintain the accuracy of the TPO's demographic information for St. Lucie County. Mr. Buchwald then elaborated on the TPO's efforts to ensure continuous, comprehensive, and cooperative public input in keeping with Federal requirements.

Vice Chairman Wild initiated a discussion regarding the County's transit system. Mr. Buchwald provided an overview of the transportation services offered by St. Lucie County Transit, with Ms. Lathou providing additional details. Mr. Buchwald explained the importance of efficiently identifying and addressing needs given the public sources of funding for transit and indicated that much of the fixed-route service was located in disadvantaged areas. In answer to Vice Chairman Wild's questions, Ms. Lathou described the registration process for the paratransit service as well as the app used to schedule rides on the ART On Demand microtransit service, noting that the fixed route service was more cost-effective than the others.

Mr. Ding clarified the definition of a Census tract, indicating that they ranged from 1,200 to 8,000 people but averaged 4,000 people. He further clarified that the boundaries of the tracts were only updated every 10 years even though the corresponding data was updated annually.

7b. Automated Speed Enforcement in School Zones Update: An update on the implementation of automated speed enforcement in school zones.

Mr. Buchwald introduced Ms. Torres, who reported that the County was in the process of soliciting vendors to implement automated speed enforcement in school zones. She provided details on how the automated enforcement would be conducted and indicated that the enforcement was expected to begin in September 2024.

In response to questions by Chairwoman Niemczyk and Vice Chairman Wild, Ms. Torres identified the nine locations chosen for the automated speed enforcement and explained how they had been selected, indicating that drivers would be able to travel up to 10 miles per hour above the limit without incurring a fine.

Vice Chairman Wild requested clarification on the implementation of the enforcement, and Ms. Torres confirmed that a third party would be selected to install and manage the automated equipment. Mr. Buchwald explained that the entity would retain a percentage of any fines collected and then transmit the remaining amount to the appropriate jurisdiction. Ms. Torres then added that there were legal provisions directing the municipalities on how the automated speed enforcement revenue had to be spent, noting that the County would be mounting a public education campaign prior to the enforcement's start date.

Vice Chairman Wild asked if there were plans to expand the automated enforcement to other roadways, and Ms. Torres indicated that there was some local opposition to doing so, even though it had been done in other areas. Discussion ensued regarding the legal ramifications of implementing automated speed enforcement County-wide.

Mr. Somers expressed concern at having a third-party vendor manage the automated enforcement, citing an incident in Virginia in which a vendor tasked with administering a similar program for traffic light infractions was accused of fraud with regard to payment and the number of citations. Mr. Buchwald recounted the history of the unsuccessful efforts to implement traffic light cameras in Florida, explaining that many members of the public had perceived the issue to be primarily about seeking additional revenue sources rather than promoting safety.

- 8. Recommendations/Comments by Members Ms. Smith expressed concern regarding the increase in traffic congestion on the segment of U.S. Highway 1 immediately south of Edwards Road, particularly at the intersection with Lakefront Boulevard. She attributed the increased congestion to what she perceived to be a higher number of school buses servicing the communities to the east of U.S. Highway 1 as well as traffic generated by the fuel station on the western side of the road. Mr. Buchwald advised her to discuss the matter further with Ms. Torres, who could then contact the appropriate agencies regarding potential congestion mitigation strategies.
- 9. Staff Comments Mr. Buchwald thanked the members for their input.
- 10. Next Meeting: The next St. Lucie TPO CAC meeting is a regular meeting scheduled for 10:30 am on Tuesday, May 21, 2024.
- 11. Adjourn The meeting was adjourned at 11:45 am.

Respectfully submitted:	Approved by:		
Rachel Harrison	Carolyn Niemczyk		
Recording Specialist	Chairwoman		



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CITIZENS ADVISORY COMMITTEE (CAC)

REGULAR MEETING

DATE: Tuesday, May 21, 2024

TIME: 10:30 am

MEETING SUMMARY

1. Call to Order

The meeting was called to order at 10:40 am.

2. Roll Call

The roll was conducted via sign-in sheet, and the following members were present:

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Bill Lindsey
George Saylor
Richard Silvestri
Mazella Smith
Ivan Somers

Others Present

Kyle Bowman

Peter Buchwald
Yi Ding
Marceia Lathou
Stephanie Torres
Rachel Harrison
Adolfo Covelli
Tom O'Donnell
Asela Silva
Jeff Weidner

Representing

Disabled Residents
Port St. Lucie
Unincorporated County

Fort Pierce At Large

Representing

St. Lucie TPO St. Lucie TPO St. Lucie TPO St. Lucie TPO St. Lucie TPO

Recording Specialist St. Lucie County Kimley-Horn Benesch

Marlin Engineering

Mr. Buchwald noted the absence of the Chairwoman and Vice Chairman. Due to a lack of a quorum, he suggested that the meeting be conducted in a workshop format. He then provided a preview of the meeting's agenda.

- 3. Comments from the Public None.
- 4. Approval of Agenda

This agenda item was not addressed due to a lack of a quorum.

- 5. Approval of Meeting Summary
 - March 19, 2024 Regular Meeting

This agenda item was not addressed due to a lack of a quorum.

6. Action I tems

6a. Draft FY 2024/25 - FY 2028/29 Transportation Improvement Program (TIP): Review of the draft FY 2024/25 - FY 2028/29 TIP.

Mr. Buchwald explained that the TPO was required to develop a TIP annually to identify projects within the TPO area that had been prioritized and were to receive Federal or State funding over the next five years. He then invited Mr. Ding to continue. Mr. Ding outlined the year-long process necessary to develop the TIP, noted several agencies involved in its production, and highlighted a number of multimodal projects included in the draft under consideration. He presented the total amount of funding in the TIP and concluded with an overview of the performance measures to be used in the TIP's evaluation.

In response to Ms. Smith's inquiry, Mr. Ding clarified the parameters of the Orange Avenue resurfacing project to extend from Lamont Road to North 32nd Street, noting that the construction was programmed for FY 2027/28. Mr. Buchwald further clarified that the resurfacing of the segment of Orange Avenue between U.S. 1 and 32nd Street would begin in the coming months. He then explained the cyclical planning process for project development.

Mr. Saylor asked how FDOT selected and prioritized resurfacing projects, commenting on the possibility of resurfacing the segment of I-95 between St. Lucie West Boulevard and Midway Road rather than constructing a wall to mitigate roadway noise in PGA Village. Mr. Buchwald explained that FDOT maintained a robust Pavement Management Program to analyze the condition of State roads and prioritize resurfacing projects, noting that the present TIP included a resurfacing project for the segment of I-95 between the Glades Cut Off Road and Florida's Turnpike underpasses. Mr. Saylor remarked on the gap that would remain between Glades Cut Off Road and St. Lucie West Boulevard, and Mr. Buchwald indicated that FDOT likely did not consider that segment to require resurfacing yet, as funding was typically found when needs were identified. Mr. Buchwald noted that the public meetings to be held in connection with the Project Development and Environment Study for the I-95 resurfacing project would provide a good opportunity for members to voice their concerns to FDOT, as the issue under discussion was impacting residents' quality of life. He then cautioned the members that resurfacing alone might not be enough to address the issue given the increases in traffic volumes in recent years.

Mr. Buchwald noted the inclusion in the TIP of the Midway Road widening project and construction of the new Turnpike interchange, explaining the role of the Moving Florida Forward Infrastructure Initiative in providing funding for the improvements. He then elaborated on the funding eligibility considerations related to the system of State roadways in the TPO area.

In answer to Mr. Saylor's question, Mr. Buchwald affirmed that Jenkins Road was a truck route providing a connection to both I-95 and Florida's Turnpike.

6b. 2024/25 List of Priority Projects (LOPP): Review of the draft LOPP for 2024/25 for the St. Lucie TPO.

Note: This agenda item was addressed after item 6e.

Mr. Buchwald described how the LOPP was produced each year as part of the annual TIP development cycle before detailing the differences between the previous year's LOPP and the draft under consideration. In doing so, he reported on revisions to the Master List, the Congestion Management Process (CMP) List, the Transportation Alternatives (TA) List, and the Transit List. He also reported on the deletion of the Local Projects for Carbon Reduction Program (CRP) Funding List and Transportation Alternatives Additional (TAA) Funding List, explaining that all the projects from those lists had been programmed.

Mr. Saylor commended the projects on the LOPP.

Mr. Somers inquired about the veracity of a rumor he had heard regarding the construction of a new interchange at I-95 and Glades Cut Off Road to provide more direct access to new developments nearby. Mr. Buchwald indicated that he was not aware of any interchange being planned in that vicinity, although there was an interchange being discussed for I-95 and Marshall Parkway in the Southern Grove area. Mr. Buchwald then explained that an interchange may not be needed at Glades Cut Off Road, as access was already provided by the Midway Road and Crosstown Parkway interchanges to the north and south, respectively.

6c. City of Fort Pierce Passenger Rail Station/Mobility Hub Concepts Plan: A presentation of the planning and concepts for the City of Fort Pierce Passenger Rail Station/Mobility Hub.

Mr. Buchwald invited Ms. Lathou to introduce the agenda item, and she explained the functions and features of a mobility hub before describing how downtown Fort Pierce had been identified as a suitable location for a passenger rail station/mobility hub. She introduced Mr. Weidner, who presented various statistics in support of a downtown Fort Pierce location and explained the evaluation process used to select the site for the station. Mr. Weidner then detailed the proposed design of the station/hub, concluding with an overview of the next steps in the development process.

In answer to Ms. Smith's question, Mr. Weidner explained that Amtrak had explored the possibility of constructing a rail station in downtown Fort Pierce in the early 2000s but decided against it. Mr. Lindsey then noted that there had once been a bus and rail station located in the vicinity.

Ms. Smith inquired about the size of the selected site, and Mr. Weidner indicated that the location offered more than two acres and 200 parking spots.

Mr. Lindsey expressed concern regarding the station's potential impact on traffic volumes, especially on U.S. 1. Mr. Buchwald explained that the study's projections had shown that U.S. 1 would be able to handle the amount of traffic potentially generated by the station. Mr. Weidner acknowledged that the station would likely generate pulses of traffic throughout the day but noted that the Plan incorporated various mobility connections to reduce the dependence on cars. Mr. Buchwald then elaborated on the concept of a mobility hub, with Mr. Weidner describing

how the station might serve a role in managing the County's future growth.

In response to Mr. Lindsay's question, Mr. Weidner indicated that passengers originating from outside the County would likely use the rail service for both business and tourism.

6d. Transit Development Plan (TDP) Major Update: Review of the draft TDP Major Update for the St. Lucie TPO area.

Mr. Buchwald introduced Ms. Lathou, and she described the scope and purpose of the Transit Development Plan before highlighting the interagency coordination efforts involved in the completion of the Update. Mr. Silva continued the presentation with an overview of the current bus service, ridership statistics, and population metrics for St. Lucie County. He detailed the public outreach activities conducted in connection with the Update and then reported on the findings, subsequently outlining the 10-year Transit Needs Plan. Mr. Silva described how the Needs Plan had been analyzed before presenting the proposed projects and improvements included in the Reimagine Transit Plan. He explained the proposed timeline for the improvements along with the projected operating costs and revenues and concluded with the next steps in the process.

In answer to Mr. Saylor's questions, Mr. Silva indicated that the ridership statistics had been provided by St. Lucie County Area Regional Transit, explaining that data is gathered regularly as part of reporting efforts to the National Transit Database. Mr. Silva then elaborated on the funding considerations for the County's paratransit service, noting that the report had included information on Transportation Disadvantaged funding.

6e. Advanced Air Mobility (AAM) Study Phase 2: A presentation of Phase 2 of the AAM Study.

At Mr. Buchwald's invitation, Mr. Ding introduced the agenda item as well as Mr. O'Donnell. Mr. O'Donnell began the presentation by defining Advanced Air Mobility (AAM) and identifying the industry's key stakeholders. He explained the Study's methodology and then described how two preliminary vertiport locations had been identified based on a number of analytical parameters. Mr. O'Donnell provided an overview of vertiports and various issues related to their siting before presenting schematics of each site. He outlined several future considerations; displayed maps of existing airports, heliports, and airport infrastructure;

provided a demonstration of the preliminary AAM corridor model; and concluded with the final recommended vertiport locations.

Mr. Somers initiated a discussion regarding the state of the AAM industry, commenting on the challenges of developing automation and ensuring the reliability of electric vertical take-off and landing aircraft (eVTOLs). Mr. O'Donnell concurred, noting that the industry was struggling particularly with the energy needs of the aircraft, and Mr. Somers remarked on the possibility of employing quiet propulsion technology using other fuel sources. Discussion ensued regarding the benefits of siting vertiports near airports rather than near heliports due to the greater number of multimodal connections typically servicing the former facility. Mr. O'Donnell then elaborated on the future development of the AAM network and its integration into the larger transportation system, with Mr. Buchwald highlighting the Study's finding of St. Lucie County being an exemplary location for a vertiport.

In response to Mr. Lindsey's comment, Mr. O'Donnell explained that AAM would likely be used locally as intercity transportation, although it could eventually become a viable intracity form of transport.

In answer to Mr. Saylor's questions, Mr. O'Donnell explained that the development of AAM technology was largely being led by private enterprise. Mr. O'Donnell indicated that none of the passenger eVTOLs under development had yet been licensed for use by the Federal Aviation Administration despite the large number of companies working toward that authorization. He reported that the current range of eVTOLs approximated 300 miles, noting that they would likely be used for cargo applications first. Mr. Buchwald then elaborated on the complexities of transporting cargo via eVTOL.

Responding to Mr. Somers, Mr. O'Donnell explained that AAM regulation would likely designate eVTOL airspace at 500 feet, similar to the altitude designated for helicopters, to avoid any conflicts with commercial airspace.

- 7. Recommendations/Comments by Members None.
- 8. Staff Comments Mr. Buchwald thanked the members for their input.
- 9. Next Meeting: The next St. Lucie TPO CAC meeting is a regular meeting scheduled for 10:30 am on Tuesday, July 23, 2024.

10.	O. Adjourn – The meeting was adjourned at 12:50 pm.				
	Respectfully submitted:	Approved by:			
	Rachel Harrison Recording Specialist	Carolyn Niemczyk Chairwoman			



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AGENDA I TEM SUMMARY

Board/Committee: Citizens Advisory Committee (CAC)

Meeting Date: July 23, 2024

Item Number: 6a

Item Title: Project Development and Environment Study

(PD&E) for Widening Florida's Turnpike from State Route 70 (Okeechobee Road) to State

Route 60 (Yeehaw Junction)

Item Origination: Florida's Turnpike Enterprise (FTE)

UPWP Reference: Task 3.1 - Long Range Transportation Planning

Requested Action: Recommend endorsement of the PD&E

alternatives, recommend endorsement with conditions, or do not recommend endorsement.

Staff Recommendation: It is recommended that comments are provided

regarding the PD&E alternatives, and the alternatives are recommended to the TPO Board

for endorsement based on the comments.

<u>Attachments</u>

- Staff Report
- FTE PD&E Presentation

Coco Vista Centre 466 SW Port St. Lucie Blvd, Suite 111 Port St. Lucie, Florida 34953 772-462-1593 www.stlucietpo.org

MEMORANDUM

TO: Citizens Advisory Committee (CAC)

FROM: Peter Buchwald

Executive Director

DATE: July 16, 2024

SUBJECT: Project Development and Environment Study (PD&E) for

Widening Florida's Turnpike from State Route 70 (Okeechobee Road) to State Route 60 (Yeehaw

Junction)

BACKGROUND

In July 2021, the TPO Advisory Committees reviewed the PD&E for the widening of the Turnpike from the Indiantown Road interchange in Jupiter to the State Route 70 (Okeechobee Road) interchange in Fort Pierce. Subsequently, the Florida's Turnpike Enterprise (FTE) started the PD&E for the widening of the Turnpike from the State Route 70 (Okeechobee Road) interchange to the State Route 60 (Yeehaw Junction) interchange.

FTE identified the need to widen this portion of the Turnpike to add capacity to accommodate future traffic volumes of freight and passenger vehicles linked to the projected growth in population and industry for the year 2045. The Turnpike is also a major evacuation route for Southeast Florida.

The completion of a PD&E is a significant phase in the transportation project development process. The PD&E serves as the bridge between the planning and design phases and guides decision-making by evaluating the potential impacts of the transportation project. During the PD&E phase, FTE collects data, develops and evaluates alternatives, conducts studies, prepares reports and gathers input from the general public, applicable agencies, and interested parties to develop the solution to meet the transportation needs that offers the greatest benefit with the least impact. FTE will present an update (attached) on the PD&E that includes the conceptual design and the project alternatives being considered for comments and endorsement.

July 16, 2024 Page 2 of 2

ANALYSIS

To meet existing and future travel demands and address roadway deficiencies, the proposed project consists of the widening of the Turnpike from four to six lanes for 41 miles by adding one outside lane in each direction, the widening or reconstruction of numerous existing bridge structures, improvements to the existing State Route 60 (Yeehaw Junction) interchange, and a potential new interchange for the Northern Connector. The PD&E is developing the alternatives for the proposed capacity and interchange improvements and evaluating the potential impacts of the alternatives.

The St. Lucie TPO staff has participated in the PD&E since its start to ensure that the proposed improvements eventually recommended by the PD&E are consistent with the TPO's plans and programs which include the new Turnpike interchange for the Northern Connector. The Northern Connector would connect the new Turnpike interchange to a new I-95 interchange which would connect to the Airport Connector which would connect to St. Lucie Boulevard and the Treasure Coast International Airport as depicted below in the map from the TPO's SmartMoves 2045 Long Range Transportation Plan (LRTP):



Based on the potential addition of a new Turnpike interchange for the Northern Connector, the proposed PD&E alternatives appear to be consistent with the SmartMoves 2045 LRTP.

RECOMMENDATION

It is recommended that comments are provided regarding the PD&E alternatives, and the alternatives are recommended to the TPO Board for endorsement based on the comments.

St. Lucie TPO Board and Committee Meetings July and August 2024

PD&E Study

to Widen Turnpike from N. of SR 70 to N. of SR 60

(MP 152-193)





FPID: 423374-2

Agenda

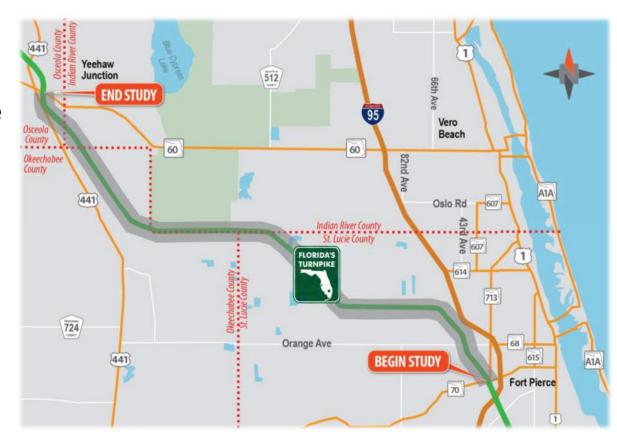
- >>> Study Limits
- **Section** Existing Mainline Typical Section
- >>> Purpose and Need
- >>> Proposed Mainline Typical Section
- SR 60 / Yeehaw Junction Interchange Alternatives
- >>> Northern Connector
 - Potential Location
 - Background
 - Conceptual Designs and Cost Estimates
 - Interchange Access Request
 - Conclusions and Recommendations
- >>> Questions





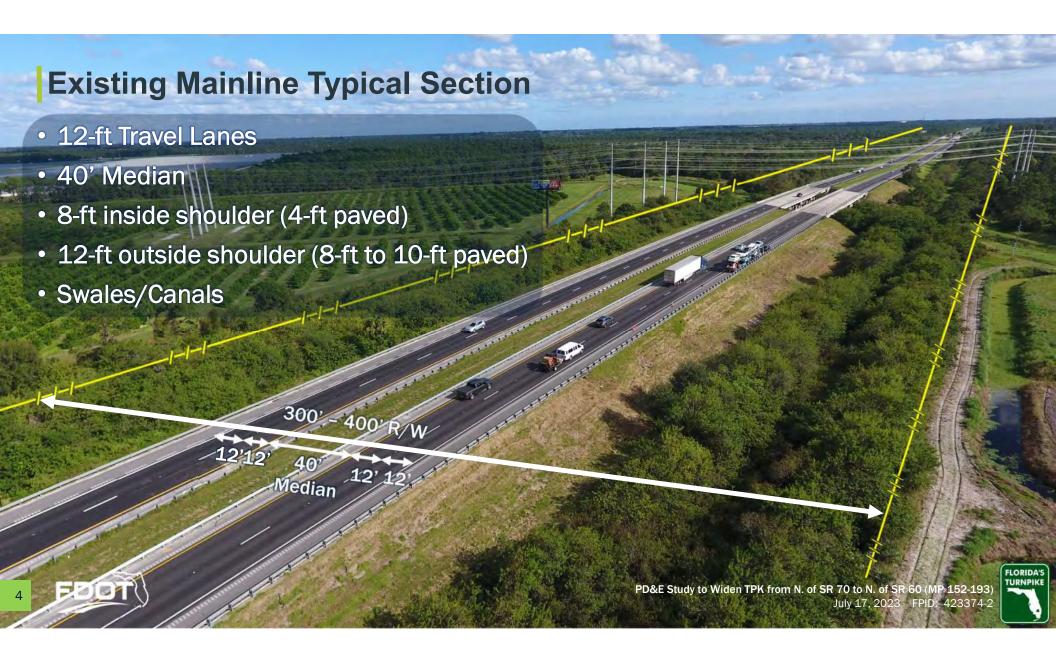
Study Limits

- >>> St Lucie, Indian River, Okeechobee and Osceola Counties
- >>> North of SR 70 to North of SR 60
 - Mile post 152 to 193 (Approx. 41 miles)









Purpose and Need

- Accommodate future travel demand
 - Widen from 4 to 6 lanes Needed by 2036
 - Future Traffic 2050
 - 8-lane section would be needed beyond 2075
- >>> Improve traffic operations
- >>> Improve safety
- Enhance emergency response times and evacuation







Proposed Mainline Typical Section



40-ft Median Widening with Guardrail

~\$1.27B Construction Cost (\$30.85M cost per mile)





SR 60 / Yeehaw Junction Interchange Alternatives

Interchange Alternative A - Modified Trumpet



Interchange Alternative B – Partial Cloverleaf







Interchange Feasibility – Northern Connector Interchange







Interchange Feasibility - Northern Connector Interchange

Background

- Northern Connector identified in St. Lucie TPO LRTP Needs Plan
- Ongoing coordination with St. Lucie County and Developer
- Coordination with the developer included the roadway alignment and traffic analysis
- Funding for the Northern Connector roadway components is uncertain
- Anticipated to be developer funded









Interchange Feasibility - Northern Connector Interchange

>>>> Roadway Designs & Construction Cost





~\$38.7M Construction Cost

~\$40.6M Construction Cost





Interchange Feasibility - Northern Connector Interchange

Interchange Access Request

- Methodology Letter of Understanding approved on November 14, 2022.
- Re-evaluation of the Interchange Justification Report will likely be required
- Projected traffic volumes lower than typical

	Location	Turnpike Profile		2050 AADT				
				No Build	Build	Impacts		
I			+	65,600	65,600	0	0%	0%
١	193 - Yeehaw		L	8,600	7,800	-800	-9%	-4%
	Junction (SR 60)	\Box	$\overline{}$	10,200	10,200	0	0%	-470
ı				67,200	68,000	800	1%	1%
I	158 Northern	+	+		3,600	3,600		
	Connector				400	400		
ı		+		67,200	64,800	-2,400	-4%	-4%
I	152 - Fort Pierce		Λ	6,800	4,600	-2,200	-32%	-8%
	(SR 70)	\Box	$\overline{}$	22,800	22,600	-200	-1%	-070
				83,200	82,800	-400	0%	0%

<u>Legend</u>
Toll Gantry





Interchange Feasibility - Northern Connector Interchange

Conclusions

- Northern Connector roadway has no funding for next phase of project development
- Interchange is feasible from construction perspective and expected to be developer driven
- Mainline widening does not preclude interchange from being constructed in future

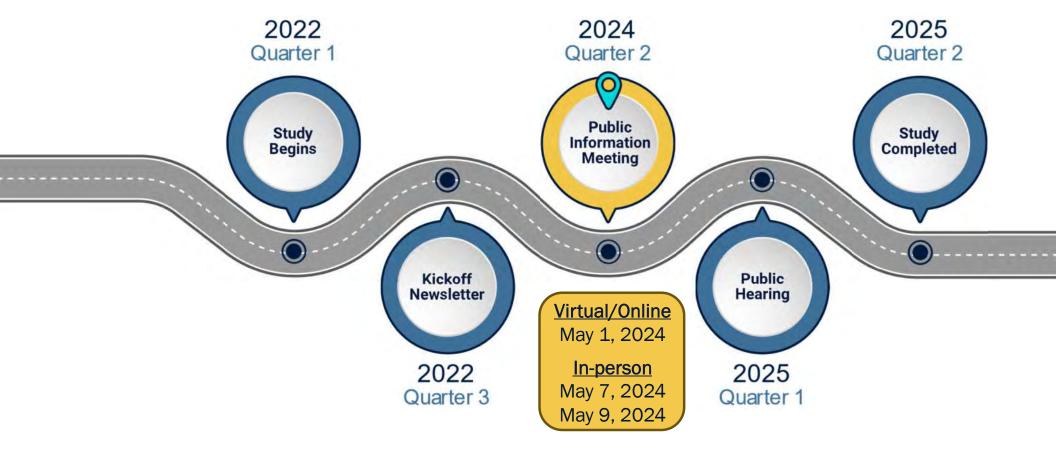
Recommendation

- Complete Turnpike IJR
- Begin interchange PD&E when the Northern Connector roadway advances in project development





Project Schedule







Project Manager Contact Information

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Project Website:

www.TurnpikeSR70toSR60.com





Questions?









Coco Vista Centre 466 SW Port St. Lucie Blvd, Suite 111 Port St. Lucie, Florida 34953 772-462-1593 www.stlucietpo.org

AGENDA I TEM SUMMARY

Board/Committee: Citizens Advisory Committee (CAC)

Meeting Date: July 23, 2024

Item Number: 6b

Item Title: Congestion Management Process (CMP) Major

Update

I tem Origination: Unified Planning Work Program (UPWP)

UPWP Reference: Task 3.4 – CMP

Requested Action: Recommend adoption of the draft CMP Major

Update, recommend adoption with conditions, or

do not recommend adoption.

Staff Recommendation: Based on the draft CMP Major Update addressing

the congestion and safety issues identified in the TPO area, it is recommended that the draft CMP Major Update be recommended for adoption by

the TPO Board.

Attachments

- Staff Report
- Draft CMP Major Update

Coco Vista Centre 466 SW Port St. Lucie Blvd, Suite 111 Port St. Lucie, Florida 34953 772-462-1593 www.stlucietpo.org

MEMORANDUM

TO: Citizens Advisory Committee (CAC)

THROUGH: Peter Buchwald

Executive Director

FROM: Yi Ding

Transportation Systems Manager

DATE: July 16, 2024

SUBJECT: Congestion Management Process (CMP) Major Update

BACKGROUND

The Congestion Management Process (CMP) is described by the Federal Highway Administration (FHWA) as a systematic and regionally-accepted approach for addressing congestion and safety issues. It provides accurate, up-to-date information on transportation system performance and assesses alternative strategies for congestion and safety issue management that meet State and local needs. Federal regulations require Metropolitan Planning Organizations (MPOs) with a population over 200,000 to establish a CMP.

The St. Lucie TPO's CMP has been utilized to allocate the TPO's CMP box funds of \$300,000- \$400,000 annually towards CMP projects in the TPO's List of Priority Projects (LOPP). The last major update of the CMP was completed in June 2018 and the need to prepare a major update of the CMP was established in the FY 2022/23 – FY 2023/24 Unified Planning Work Program (UPWP) in Task 3.4, *Congestion Management Process (CMP)*.

ANALYSIS

The attached CMP Major Update was prepared by Benesch, one of the TPO's General Planning Consultants.

In the CMP Major Update, CMP goals and objectives were identified, and performance measures were developed to meet the goals and objectives. Then,

July 16, 2024 Page 2 of 2

the CMP network was evaluated in two phases. Phase 1 consisted of a systemwide evaluation of available traffic count and crash data to evaluate the CMP network on a larger scale. The performance measures were used to evaluate Phase 1 road segments to identify candidates for an in-depth analysis of roadway conditions in Phase 2. In addition, two stakeholder meetings were conducted among the TPO, the consultant, and local agencies to obtain input on the potential CMP projects.

In Phase 2, 11 CMP projects were evaluated and prioritized based on a deeper investigation and analysis. Based on the deeper investigation and analysis, seven of these projects were selected for implementation. Finally, a new CMP Implementation Plan containing these projects was developed to be utilized to inform the TPO's LOPP and allocate the TPO's CMP Box Funds for five years beginning with FY2025/26.

<u>RECOMMENDATION</u>

Based on the draft CMP Major Update addressing the congestion and safety issues identified in the TPO area, it is recommended that the draft CMP Major Update be recommended for adoption by the TPO Board.

CONGESTION MANAGEMENT PROCESS







St. Lucie Planning

Transportation Planning Organization

2024 Major Update

















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1. INTRODUCTION

This document outlines the St. Lucie Transportation Planning Organization's (TPO) Congestion Management Process (CMP). The CMP relies on data analysis of current transportation conditions to make informed decisions about congestion management strategies for the St. Lucie TPO planning area. The CMP is designed to support the key goals of the SmartMoves 2045 Long Range Transportation Plan (LRTP), focused on improving the regional transportation system.

The 2024 major update will be used to identify and prioritize projects for potential inclusion in the Florida Department of Transportation (FDOT) Five-Year Work Program, the TPO's List of Priority Projects (LOPP) and the TPO's Transportation Improvement Program (TIP). It is estimated that \$300,000 - \$400,000 of federal funds will be allocated to CMP projects each year.

Figure 1.1 CMP Guidebook

1.1 Federal Highway Administration CMP Guidebook

The FHWA's 'Congestion Management Process: A Guidebook" from April 2011, seen in **Figure 1.1**, was used as a reference guide for the development of the 2024 CMP Major Update. Other documents reviewed and used for the major update include the FHWA Highway Capacity Manual (HCM), the Traffic Monitoring Guide (TMG), the St. Lucie TPO's SmartMoves 2045 Long Range Transportation Plan (LRTP) and the current Transportation Improvement Program (TIP).

1.2 What is a CMP?

The CMP is a systematic and regionally accepted approach for managing congestion that provides accurate, up-to-date information on transportation system performance and assessed alternative strategies for congestion management that meet state and local needs. The CMP provides effective Congestion
Management
Process:
A Guidebook

management and operation of the existing transportation system and is used to identify areas where improvements are most needed to best meet the vision of the TPO. The CMP analyzes data and provides tools to evaluate performance measures and make decisions regarding funding projects.

The CMP addresses the evolving needs, vision, and goals of the region. By using performance metrics, the CMP allows the TPO to assess current conditions of the area's transportation system and use performance measures to make decisions about congestion reducing projects. The CMP provides guidance that streamlines projects into funding and implementation stages. A flow chart of the CMP process is illustrated on the next page.

This 2024 CMP major update is structured in two phases. Phase 1 is a system-wide evaluation of traffic count data and crash data across the region's transportation system. The analysis is used to identify roadway segments and intersections with significant congestion and safety concerns.

These performance measures will be used to prioritize projects for additional evaluation in Phase 2. Phase 2 of the CMP requires an in-depth analysis of the prioritized projects and is used to develop congestion mitigation strategies and safety enhancements within the regional network.

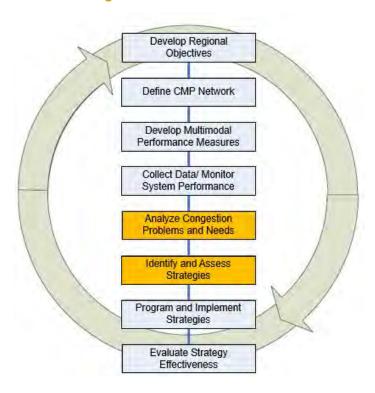


Figure 1.2 CMP Flow Chart

1.3 CMP Benefits

The CMP benefits regional transportation systems by addressing congestion concerns linked to growth, land use changes, changes in travel patterns, mode shifts, and infrastructure changes. The CMP process provides a framework for the TPO to respond to congestion and operational issues in an ever-changing environment. The Federal Highway Administration (FHWA) identifies the following benefits of a successful CMP:

- A structure to analyze congestion issues.
- Increased collaboration and coordination
- Effective resource allocation
- Providing objective-driven and performance-based approach
- Links to project development and environmental review
- Improved safety

The TPO will identify projects that will provide the most benefit to the multi-modal transportation network. The funds will be allocated to projects that reduce congestion, enhance safety, decrease travel time delays, support environmental initiatives by combating emissions from idling vehicles and reduce fuel costs for motorists.

1.4 Goals and Objectives

The Federal Highway Administration (FHWA) states the CMP is an objective-driven, performance-based tool used for congestion management. The goals and objectives provide a framework to guide transportation improvements through a continuous CMP process. Performance measures are established to measure progress towards the defined objectives that address the region's congestion needs. Table 1.1 depicts the relationship between the goals, objectives and performance measures that are supportive of the St. Lucie TPO SmartMoves 2045 Long Range Transportation Plan (LRTP). The highlighted goals and objectives in Table 1.1 taken directly from the LRTP are consistent with the TPO's CMP illustrating the consistency of the TPO's major planning products.

This CMP Major Update directly incorporates the following goals from SmartMoves 2045 emphasizing support for the LRTP Goal 1: Support Economic Activities, Goal 2: Provide Travel Choices, and Goal 5 Improve Safety and Security. With clear guidance and performance measures, CMP projects will directly enable the efficient movement of people and goods and optimize the management and operations of the transportation system, promote safe travel choices, and ensure the safety and security of the entire transportation network.

The CMP major update will identify, evaluate, and prioritize CMP projects using performance measures developed and maintained through existing, regularly updated data sources. The highest prioritized projects will be candidates for potential inclusion in the FDOT Work Program, the TPO's List of Priority Projects (LOPP), and the Transportation Improvement Program (TIP). The TPO allocates approximately \$300,000 to \$400,000 annually in CMP Box Funds for these projects.

Objectives of the CMP major update include collecting data to calculate and evaluate congestion performance measures, improving modal choice through improvements to bike/ pedestrian and public transportation networks, improving efficiency of existing transportation services through intelligent traffic systems (ITS), ensuring community participation is representative and prioritizing congestion projects.

Table 1.1 SmartMoves 2045 Goals, Objectives, and Performance Measures

SmartMoves 2045 St. Lucie TPO LRTP									
Goal 1: Support Economic Activities									
Objectives	Performance Measures								
Enable the efficient movement of people and goods on the roadway network	 Percent of person-miles traveled on the Interstate are reliable. Percent of person-miles traveled on the non-Interstate NHS that are reliable. The truck travel time reliability (TTTR) index that is the average of the maximum TTR calculated for each reporting segment on the Interstate 								

Optimize the management and operations of the	
transportation system	TSM&O Strategic Network Development
Maximize the efficiency and effectiveness of the current transit system and improve access to	 Percent of population within 1/4 mile of Major Activity Centers (MACs)
destinations that support economic growth	Transit routes providing access to MACs
Goal 2: Provide Travel Choices	
Objectives	Performance Measures
Encourage walking, cycling and other micromobility options	Percent of roadways with sidewalks and bike lanes
Improve transit accessibility	 Percent of transit stops with sidewalk access. Miles of fixed route transit service
Goal 3: Maintain the Transportation System	
Objectives	Performance Measures
	Percent of pavements of the Interstate System in Good/Poor condition
Maintain the condition of the existing roadway	Percent of pavements of the non-interstate NHS is
transportation assets	Good/Poor condition. • Percent of NHS bridges classified as Good/Poor
	condition
	Equipment- Percentage of non-revenue, support-service and maintenance vehicles that have met or exceeded their useful life benchmark.
Maintain condition of existing transit assets	Rolling Stock- Percentage of revenue vehicles within a particular asset class that have either met or exceeded their useful life benchmark.
	Percent of facilities with a condition rating below 3.0 on the FTA Transit Economic Requirements Model (TERM) scale
Goal 4: Provide Equitable, Affordable, and Sustai	nable Urban Mobility
Objectives	Performance Measures
Support healthy living strategies, programs, and improvements to create more livable communities	 Walking modal share Bicycle modal share Transit modal share
Ensure community participation is representative	Opportunities for engagement in traditionally underserved areas
Provide for transportation needs of transportation disadvantaged	% of low-income, older adults, persons with disabilities within 1/4 mile of transit route
Make transportation investments that minimize impacts to natural environment and allocate resources toward mitigation	Number of additional roadway lane miles of impacting environmentally sensitive areas
Improve transportation system's stability/ resiliency in event of climate change emergencies, or disasters	
Goal 5: Improve Safety and Security	
Objectives	Performance Measures
Improve safety and security in the Highway System	 Number of fatalities Rate of fatalities per 100mil VMT Number of serious injuries
Income and a factor and a country to the Toronto Co.	Rate of serious injuries per 100 VMT Tatalog and the fourth
Improve safety and security in the Transit System	Total number of reportable fatalities

	 Rate of reportable fatalities per total vehicle revenue miles by mode Total number of reportable injuries Rate of reportable injuries per total vehicle revenue miles by mode Total number of reportable safety events Rate of reportable safety events per total VMT by mode Mean distance between major mechanical failures by mode
Improve safety and security in the Non-Motorized System	 Number of non-motorized fatalities and serious injuries combined

1.5 CMP Network

The CMP network is comprised of all major roadways in St. Lucie County that are included in the St. Lucie TPO's Traffic Data Management System (TDMS). The TDMS is available to the public, online via the St. Lucie TPO's website. This data management system collects annual daily counts from the State and TPO's annual collection programs and calculates peak hour traffic conditions data, which are used to develop performance measure values. This network is county-wide and includes the City of Fort Pierce, the City of Port St. Lucie, the Town of St. Lucie Village, and Unincorporated St. Lucie County. The web page of the St. Lucie TPO Traffic Data Management System website is shown in Figure 1.3.

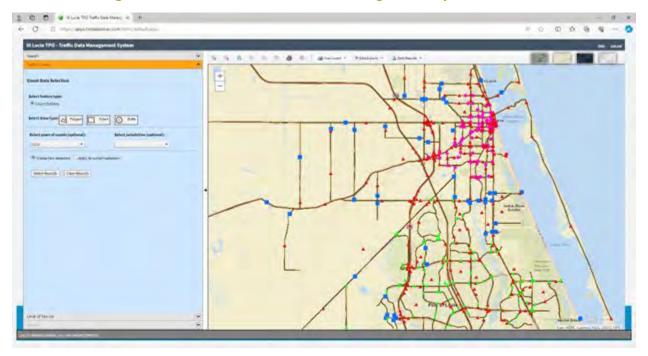


Figure 1.3 St. Lucie Traffic Data Management System Website

For the purpose of this CMP update, the TDMS based study network was refined to include non-state road segments for which traffic data has been collected and installed in the TDMS. The study network is shown in Figure 1.4 on the next page.

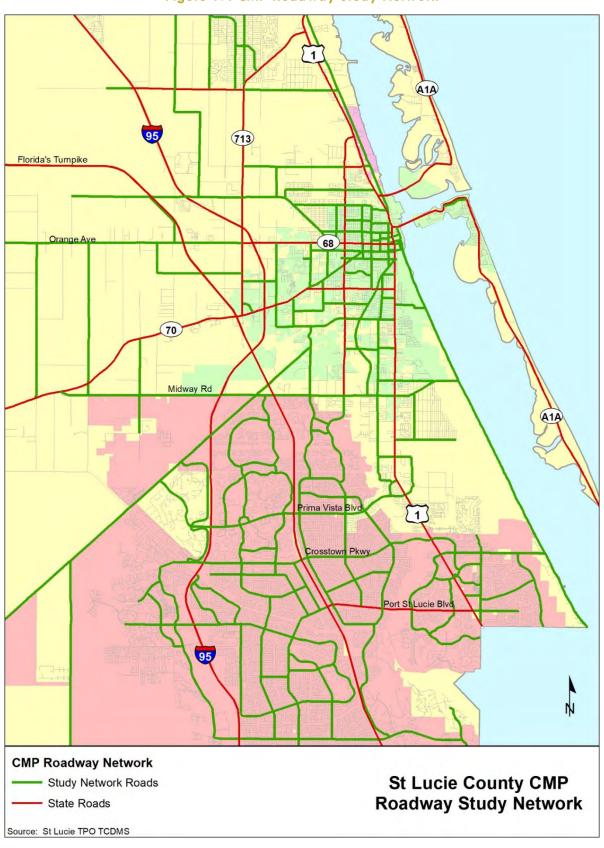


Figure 1.4 CMP Roadway Study Network

2. PRIORITIZATION CRITERIA AND PERFORMANCE MEASURES

2.1 Performance Measures

The CMP focuses on providing specific, measurable, and agreed upon performance measures that can be tracked and analyzed by the TPO. Monitoring system performance can guarantee informed decisions are being made about the funding and implementation of congestion management strategies within the region. Per the Federal Highway Administration, a CMP must develop performance measures to support congestion management objectives and adequately assess system performance to clearly communicate problem areas. For the major update, performance measures are considered regional objectives, and utilize available data to identify needs and determine project prioritization.

The transportation network was evaluated in two phases. Phase 1 consisted of a system-wide evaluation of available traffic count and crash data to evaluate the CMP network on a larger scale. The performance measures were used to evaluate Phase 1 road segments to determine which roads move to Phase 2 for an in-depth analysis of roadway conditions. In Phase 2, the intersections and roadway segments were considered for congestion management project applications and strategies. The performance measures listed below outline the criteria for Phase 1 of the process.

The Phase 1 performance measures were:

- Volume to Capacity (V/C) Ratio screening
- Safety (fatality and serious injury crashes on the segment, including intersections)
- Key Stakeholder Input (local agency staff knowledge and concerns)

2.2 Phase 1 Prioritization Criteria

Three performance measures were used to evaluate and rank segments in the Phase 1 evaluation. These focused on evaluating the CMP network at a larger macroscopic level and included congestion, safety, and stakeholder input.

Congestion was measured using volume to capacity (V/C) ratios for the AM and PM peak periods. These ratios assisted in determining the level of service of a roadway or intersection. This measure allows for an understanding of the intensity and relative severity of the congestion that affects travel.

Crash data was analyzed for the years 2021 and 2022 using Signal 4 analytics to identify sever injury and fatal crashes. The goal was to identify the most dangerous network locations as the safety performance measure.

Lastly, key stakeholders identified roadway segments and intersections based upon their institutional knowledge. Points were awarded to these locations as the final performance measure for prioritization. The prioritization criteria and point system for each performance measure can be seen in Table 2.1 below. Crash segments and intersections identified by key stakeholder input were both given a maximum score of five points to highlight their specialized knowledge of the CMP roadway network.

Table 2.1 Prioritization Criteria and Point System

V/C Ratio	Rank Score	Crash	Score	Agency	Score
<= 0.80	1				
0.80 - 0.94	2			Stakeholder	
0.94 - 1.00	3	Fatal or Severe Injury Crash	5	Concern	5
1.00 – 1.10	4	injury Crasii		Segment	
1.10 – 10	5				

3. PHASE 1 EVALUATION

3.1 Volume to Capacity (V/C) Screening

Step One of the V/C components of the Phase 1 evaluation included an initial screening of V/C ratios for study network segments for both the AM and PM Peak Periods. Step One identified 28 segments that had either an AM or PM V/C ratio of 1.00 or higher. Segments received the following scores, up to 5 points, for each peak-period, based on the V/C ratio ranges:

V/C Ratio	Rank Score
<0.80	1
0.80 - < 0.95	2
0.95 - <1.00	3
1.00 - <1.10	4
>=1.10	5

Step Two was a review of the initial screening scoring for planned roadway improvements or changes to the TDMS segmentation that would impact scoring. Step Two identified six of the top ranked segments that could be re-scored due to planned roadway improvements or changes to TDMS segmentation. Four segments were identified as being scheduled for capacity improvements in the Transportation Improvement Plan (TIP), and two segments were identified as proposed candidates for segmentation changes in the TDMS that would lower the assigned V/C due to count station location. Table 3.1 on the next page, shows the top ranked segments after the initial V/C screening, with segments to be rescored identified. V/C ratio maps for the AM and PM peak periods and the full scoring tables are provided in the Appendix.

Step Three of the V/C component included a projection to 2028 using historical traffic count data in the TDMS with the planned TIP roadway capacity improvements accounted for in the V/C ratio calculation. The V/C ratio screening concluded with a rescoring of the study network segments using the revised scores for the six adjusted segments. The 2028 projected traffic conditions scoring table is provided in the Appendix.

Table 3.1 – 2023 AM and PM Congested Roadway Segment Scoring

SEGMENT	YEAR	ON STREET	FROM STREET	TO STREET	SEGMENT AM V/C	SEGMENT PM V/C	MAX PH V/C	AM	PM Score	Combined Score
2160	2023	CALIFORNIA BLVD	PEACOCK BLVD	TORINO PKWY	1.37	1.21	1.367	5	5	10
2120	2023	CALIFORNIA BLVD	DEL RIO BLVD	CROSSTOWN PKWY	1.45	1.21	1.448	5	5	10
2130.2	2023	CALIFORNIA BLVD	HEATHERWOOD BLVD	ST LUCIE WEST BLVD	1.15	1.15	1,149	5	5	10
2130.1	2023	CALIFORNIA BLVD	CROSSTOWN PKWY	HEATHERWOOD BLVD	1.15	1.15	1,149	5	5	10
2210	2023	CASHMERE BLVD	ST LUCIE WEST BLVD	PEACOCK BLVD	1.20	1.29	1.293	5	5	10
11300	2023	CASHMERE BLVD	PEACOCK BLVD	TORINO PKWY	1.22	1.13	1.217	5	5	10
22920	2023	EAST TORINO PKWY	TORINO PKWY	MIDWAY RD	1.16	1.12	1.155	5	5	10
3610	2023	GILSON RD	BECKER RD	LAKERIDGE DR	1.71	1.77	1.772	5	5	10
3600	2023	GILSON RD	MARTIN C.L.	BECKER RD	1.30	1.35	1.348	5	5	10
23580	2023	MIDWAY RD	MILNER DR	W OF SELVITZ RD	1.58	1.64	1.643	5	5	10
23575	2023	MIDWAY RD	EAST TORINO PKWY	MILNER DR	1.42	1.48	1.475	5	5	10
6802	2023	PORT ST LUCIE BLVD	PAAR DR	TULIP BLVD	1.11	1.11	1.106	5	5	10
23392	2023	SAVONA BLVD	PAAR DR	GATLIN BLVD	1.31	1.18	1.312	5	5	10
23391	2023	SAVONA BLVD	BECKER RD	PAAR DR	1.25	1.12	1.246	5	5	10
3090	2023	SOUTHBEND BLVD	BECKER RD	FLORESTA DR	1.34	1.18	1.343	5	5	10
1860	2023	BAYSHORE BLVD	SELVITZ RD	ST JAMES DR	1.12	1.05	1.119	5	4	9
1840	2023	BAYSHORE BLVD	PRIMA VISTA BLVD	FLORESTA DR	1.19	1.04	1.191	5	4	9
2400	2023	DARWIN BLVD	BECKER RD	PAAR DR	1.13	1.04	1.125	5	4	9
6530	2023	OLEANDER AVE	BELL AVE	FARMER'S MARKET RD	1.14	1.08	1.135	5	4	9
1850	2023	BAYSHORE BLVD	FLORESTA DR	SELVITZ RD	1.06	1.00	1.062	4	4	8
1940	2023	BECKER RD	SOUTHBEND BLVD	GILSON RD	1.02	1.09	1.091	4	4	8
1900.3	2023	BECKER RD	I-95	SAVONA BLVD	1.02	0.97	1.016	4	3	7
9140	2023	COMMERCE CENTER DE	ST LUCIE WEST BLVD	GLADES CUT-OFF RD	1.04	0.99	1.043	4	3	7
3110.1	2023	FLORESTA DR	THORNHILL DR	CROSSTOWN PKWY	1.09	0.97	1.091	4	3	7
3110.2	2023	FLORESTA DR	PORT ST LUCIE BLVD	THORNHILL DR	1.09	0.97	1.091	4	3	7
6550.11	2023	OLEANDER AVE	WISTERIA AVE	GARDENIA AVE	1.11	0.93	1.113	5	2	7
7890	2023	ST LUCIE WEST BLVD	COMMERCE CENTER D	W OF I-95	0.98	1.03	1.033	3	4	7
3100	2023	FLORESTA DR	OAKLYN ST	PORT ST LUCIE BLVD	1.06	0.89	1.060	4	2	6
		with green highlight show h								

Figure 3.1 on the following page visualizes congestion levels on various roadway segments in St. Lucie County during the AM peak hours. The V/C ratio is used to evaluate congestion, with different colors representing levels of congestion. The Traffic Data Management System does not provide V/C values for intersections so only segments were evaluated in the analysis. Additionally, the Florida Turnpike was excluded from the V/C calculations.

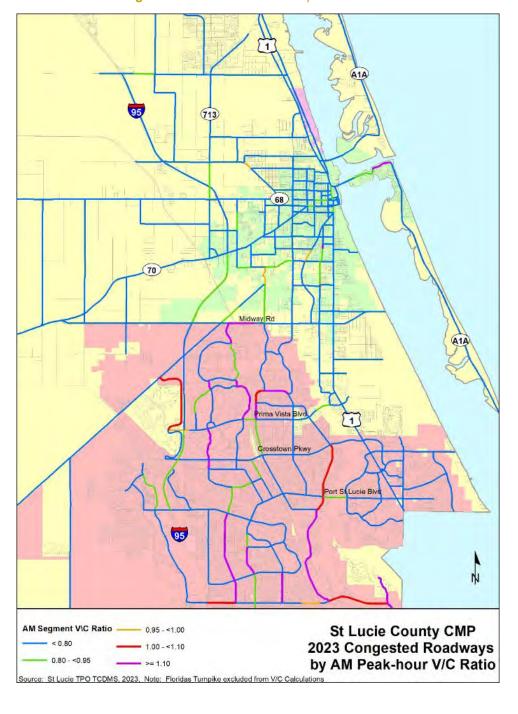


Figure 3.1 AM Peak Hour V/C Ratios

Figure 3.2 visualizes congestion levels on various roadway segments in St. Lucie County during the PM peak hours. The V/C ratio is used to evaluate congestion, with different colors representing levels of congestion. The Traffic Data Management System does not provide V/C values for intersections so only segments were evaluated in the analysis.

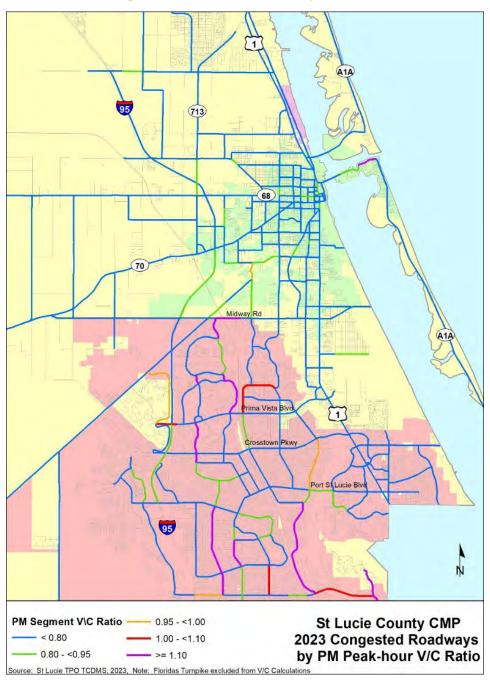


Figure 3.2 PM Peak Hour V/C Ratios

3.2 Safety Screening

Signal Four crash data was collected for the two most recent full years of data available (2021, 2022). Initial screening of the crash data identified fatality and serious injury crashes on roadways within St Lucie County. This data was reviewed in GIS and further refined to identify fatality and serious injury crashes on study network segments. Figure 3.3 shows the crashes by type on the study network roads.

Study network segments were scored five points based on crash severity. The scoring table was reranked based on the new scoring as shown in Table 3.2 on page 19. The full V/C and Crash scoring table is included in Appendix C.

Crash	Score
Fatal or	
Severe Injury	5
Crash	

Figure 3.3 on the next page visualizes the density and location of crash incidents throughout the County while **Figure 3.4** displays the location of high crash incidents overlayed with the CMP road network.

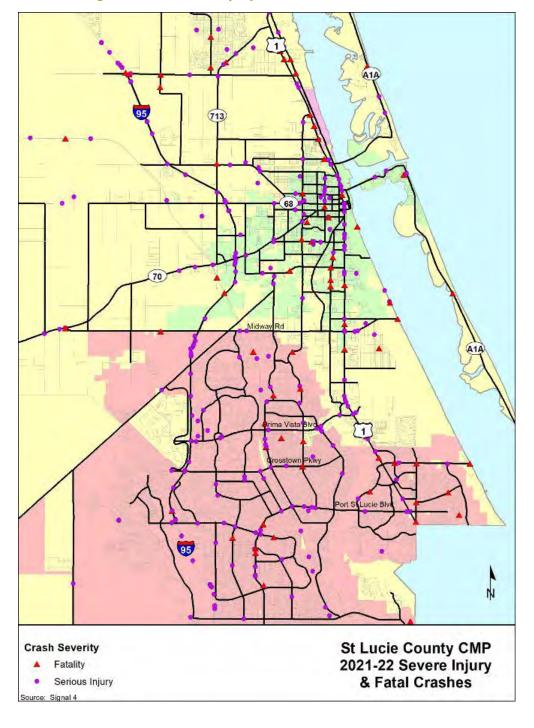


Figure 3.3 Severe Injury and Fatal Crash Locations

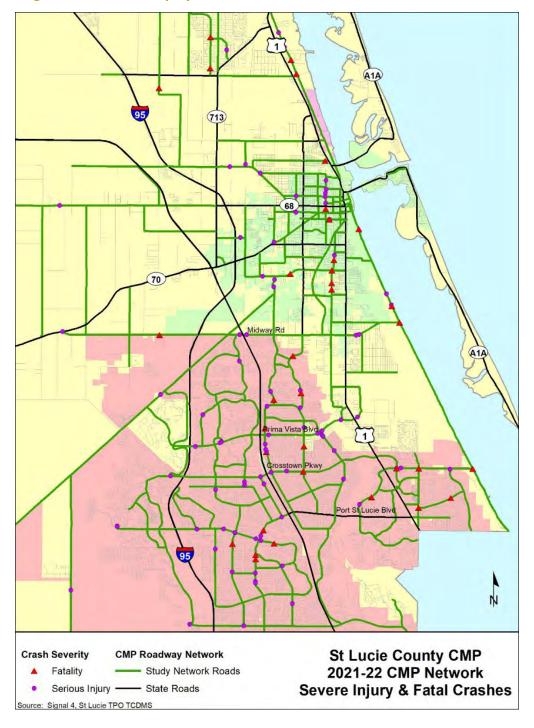


Figure 3.4 Severe Injury and Fatal Crash Locations on CMP Network

Table 3.2 – 2023 AM and PM Congested Roadway Segment and Severe Injury and Fatal Crash Scoring

SEGMENT				SEGMENT	SEGMENT	MAX	AM	PM	Combined	Crash		Total
ID	ON STREET	FROM STREET	TO STREET	AM V/C	PM V/C	V/C	Score		V/C Score		Juris.	Score
23391	SAVONA BLVD	BECKER RD	PAAR DR	1.25	1.12	1.246	5	5	10	5	PSL	15
23392	SAVONA BLVD	PAAR DR	GATLIN BLVD	1.31	1.18	1.312	5	5	10	5	PSL	15
1840	BAYSHORE BLVD	PRIMA VISTA BLVD	FLORESTA DR	1.19	1.04	1.191	5	4	9	5	PSL	14
2400	DARWIN BLVD	BECKER RD	PAAR DR	1.13	1.04	1.125	5	4	9	5	PSL	14
1850	BAYSHORE BLVD	FLORESTA DR	SELVITZ RD	1.06	1.00	1.062	4	4	8	5	PSL	13
3110.1	FLORESTA DR	THORNHILL DR	CROSSTOWN PKWY	1.09	0.97	1.091	4	3	7	5	PSL	12
6550.11	OLEANDER AVE	WISTERIA AVE	GARDENIA AVE	1.11	0.93	1.113	5	2	7	5	County	12
7520	SELVITZ RD	GLADES CUT-OFF RD	EDWARDS RD	0.97	0.96	0.967	3	3	6	5	County	11
2120	CALIFORNIA BLVD	DEL RIO BLVD	CROSSTOWN PKWY	1.45	1.21	1.448	5	5	10	0	PSL	10
2130.1	CALIFORNIA BLVD	CROSSTOWN PKWY	HEATHERWOOD BLVD	1.15	1.15	1.149	5	5	10	0	PSL	10
2130.2	CALIFORNIA BLVD	HEATHERWOOD BLVD	ST LUCIE WEST BLVD	1.15	1.15	1.149	5	5	10	0	PSL	10
2160	CALIFORNIA BLVD	PEACOCK BLVD	TORINO PKWY	1.37	1.21	1.367	5	5	10	0	PSL	10
2210	CASHMERE BLVD	ST LUCIE WEST BLVD	PEACOCK BLVD	1.20	1.29	1.293	5	5	10	0	PSL	10
11300	CASHMERE BLVD	PEACOCK BLVD	TORINO PKWY	1.22	1.13	1.217	5	5	10	0	PSL	10
22920	EAST TORINO PKWY	TORINO PKWY	MIDWAY RD	1.16	1.12	1.155	5	5	10	0	PSL	10
3600	GILSON RD	MARTIN C.L.	BECKER RD	1.30	1.35	1.348	5	5	10	0	County	10
3090	SOUTHBEND BLVD	BECKER RD	FLORESTA DR	1.34	1.18	1.343	5	5	10	0	PSL	10
1830	BAYSHORE BLVD	CROSSTOWN PKWY	PRIMA VISTA BLVD	0.90	0.89	0.897	2	2	4	5	PSL	9
1860	BAYSHORE BLVD	SELVITZ RD	ST JAMES DR	1.12	1.05	1.119	5	4	9	0	PSL	9
22910.2	EAST TORINO PKWY	CASHMERE BLVD	TORINO PKWY	0.89	0.88	0.892	2	2	4	5	PSL	9
2810	EDWARDS RD	SELVITZ RD	25TH ST	0.87	0.89	0.889	2	2	4	5	County	9
6530	OLEANDER AVE	BELL AVE	FARMER'S MARKET RD	1.14	1.08	1.135	5	4	9	0	County	9
6803	PORT ST LUCIE BLVD	TULIP BLVD	DARWIN BLVD	0.84	0.84	0.841	2	2	4	5	PSL	9

3.3 Key Stakeholder Input

The key stakeholders for the CMP Major Update were identified as members of the St. Lucie TPO's standing Technical Advisory Committee who represented the local jurisdictions. Most are traffic engineers with a strong grasp of the causes of traffic congestion and safety issues within their jurisdictions and the broader TPO area. The participating key stakeholders included representatives from the City of Fort Pierce, the City of Port St. Lucie, and St. Lucie County.

The key stakeholders were convened formally on two occasions during the development of the CMP in the form of Working Group Sessions. The first session was held on February 12, 2024, at the TPO office. Topics discussed included an overview of the CMP, the scope and goals of the update, the role of the key stakeholders, the CMP network, a review of the congestion and safety measures, and the initial ranking of congested corridors.

The second meeting of the key stakeholders occurred on April 22, 2024, in the form of a virtual meeting. During this meeting, a final list of prioritized congested corridors was presented and potential congestion mitigation and safety enhancements strategics at each of the highest ranked ten (10) locations was discussed. Copies of the PowerPoint presentation and other meeting materials are in Appendix F.

As mentioned previously, key stakeholders identified roadway segments and intersections based upon their institutional knowledge. Points were awarded to these locations as the final performance measure for prioritization. Congested and dangerous locations identified by key stakeholder input were given a maximum score of five points to highlight their specialized knowledge of the CMP roadway network. Segments identified by stakeholders were assigned five additional points for reranking and participants agreed to provide input within a period of time.

Discussion of identified segments and planned improvements occurred during the working session. During the screening process identifying many of the areas of concern, three additional segments were identified by stakeholders as areas of specific concern. One of these segments identified is on a state road and "off

Study Network" but was identified as having impact on adjacent local roads and upon full scoring, ranked as a priority segment. Table 3.3 shows the high ranked study network segments. The full Phase One scoring Table is included in Appendix D.

Table 3.3 - 2023 Phase One CMP Scoring

				AM	PM	Max.			AM/PM		V/C &	Stake	Ph. 1
Segment				Segment	Segment	PH	AM	PM	Combined	Crash	Crash	Holder	Total
ID	On Street	From Street	To Street	V/C	V/C	V/C	Score	Score	Score	Score	Score	Score	Score
22920	EAST TORINO PKWY	TORINO PKWY	MIDWAY RD	1.16	1.12	1.155	5	5	10		10	5	15
23391	SAVONA BLVD	BECKER RD	PAAR DR	1.25	1.12	1.246	5	5	10	5	15		15
23392	SAVONA BLVD	PAAR DR	GATLIN BLVD	1.31	1.18	1.312	5	5	10	5	15		15
1840	BAYSHORE BLVD	PRIMA VISTA BLVD	FLORESTA DR	1.19	1.04	1.191	5	4	9	5	14		14
2400	DARWIN BLVD	BECKER RD	PAAR DR	1.13	1.04	1.125	5	4	9	5	14		14
6530	OLEANDER AVE	BELL AVE	FARMER'S MARKET RD	1.14	1.08	1.135	5	4	9		9	5	14
1850	BAYSHORE BLVD	FLORESTA DR	SELVITZ RD	1.06	1.00	1.062	4	4	8	5	13		13
3110.1	FLORESTA DR	THORNHILL DR	CROSSTOWN PKWY	1.09	0.97	1.091	4	3	7	5	12		12
6550.11	OLEANDER AVE	WISTERIA AVE	GARDENIA AVE	1.11	0.93	1.113	5	2	7	5	12		12
6840	PORT ST LUCIE BLVD	FLORIDA'S TURNPIKE	BAYSHORE BLVD	0.75	0.75	0.754	1	1	2	5*	7	5*	12
7520	SELVITZ RD	GLADES CUT-OFF RD	EDWARDS RD	0.97	0.96	0.967	3	3	6	5	11		11
2120	CALIFORNIA BLVD	DEL RIO BLVD	CROSSTOWN PKWY	1.45	1.21	1.448	5	5	10		10		10
2130.1	CALIFORNIA BLVD	CROSSTOWN PKWY	HEATHERWOOD BLVD	1.15	1.15	1.149	5	5	10		10		10
2130.2	CALIFORNIA BLVD	HEATHERWOOD BLVD	ST LUCIE WEST BLVD	1.15	1.15	1.149	5	5	10		10		10
2160	CALIFORNIA BLVD	PEACOCK BLVD	TORINO PKWY	1.37	1.21	1.367	5	5	10		10		10
2210	CASHMERE BLVD	ST LUCIE WEST BLVD	PEACOCK BLVD	1.20	1.29	1.293	5	5	10		10		10
11300	CASHMERE BLVD	PEACOCK BLVD	TORINO PKWY	1.22	1.13	1.217	5	5	10		10		10
3600	GILSON RD	MARTIN C.L.	BECKER RD	1.30	1.35	1.348	5	5	10		10		10
3090	SOUTHBEND BLVD	BECKER RD	FLORESTA DR	1.34	1.18	1.343	5	5	10		10		10
1830	BAYSHORE BLVD	CROSSTOWN PKWY	PRIMA VISTA BLVD	0.90	0.89	0.897	2	2	4	5	9		9
1860	BAYSHORE BLVD	SELVITZ RD	ST JAMES DR	1.12	1.05	1.119	5	4	9		9		9
22910.2	EAST TORINO PKWY	CASHMERE BLVD	TORINO PKWY	0.89	0.88	0.892	2	2	4	5	9		9
2810	EDWARDS RD	SELVITZ RD	25TH ST	0.87	0.89	0.889	2	2	4	5	9		9
6803	PORT ST LUCIE BLVD	TULIP BLVD	DARWIN BLVD	0.84	0.84	0.841	2	2	4	5	9		9

^{*}Indicates a State Road added at Stakeholder request

During a final review to determine the higher priority segments for the Phase 1 CMP selection, some segments were combined where it made sense to do so, i.e., where more than one segment connected major crossroads and had similar characteristics and scoring. Table 3.4 on the following page indicates the high priority CMP roadway segments for the Phase 1 evaluation and selection.

Table 3.4 - 2023 Phase One Top 30 CMP Scoring - Some Segments Combined

			l	AM/PM		Ph. 1
On Street	From Street	To Street	No. Segments	Combined Score	Crash Score	Total Score
EAST TORINO PKWY	TORINO PKWY	MIDWAY RD	1	10		15
SAVONA BLVD	BECKER RD	GATLIN BLVD	2	10	5	15
DARWIN BLVD	BECKER RD	PAAR DR	1	9	5	14
OLEANDER AVE	BELL AVE	FARMER'S MARKET RD	1	9		14
BAYSHORE BLVD	PRIMA VISTA BLVD	SELVITZ RD	2	9	5	13/14
FLORESTA DR	THORNHILL DR	CROSSTOWN PKWY	1	7	5	12
OLEANDER AVE	WISTERIA AVE	GARDENIA AVE	1	7	5	12
PORT ST LUCIE BLVD	FLORIDA'S TURNPIKE	BAYSHORE BLVD	1	2	5*	12*
SELVITZ RD	GLADES CUT-OFF RD	EDWARDS RD	1	6	5	11
CALIFORNIA BLVD	DEL RIO BLVD	CROSSTOWN PKWY	1	10		10
CALIFORNIA BLVD	CROSSTOWN PKWY	ST LUCIE WEST BLVD	2	10		10
CALIFORNIA BLVD	PEACOCK BLVD	TORINO PKWY	1	10		10
CASHMERE BLVD	ST LUCIE WEST BLVD	TORINO PKWY	2	10		10
GILSON RD	MARTIN C.L.	BECKER RD	1	10		10
SOUTHBEND BLVD	BECKER RD	FLORESTA DR	1	10		10
BAYSHORE BLVD	CROSSTOWN PKWY	PRIMA VISTA BLVD	1	4	5	9
BAYSHORE BLVD	SELVITZ RD	ST JAMES DR	1	9		9
EAST TORINO PKWY	CASHMERE BLVD	TORINO PKWY	1	4	5	9
EDWARDS RD	SELVITZ RD	25TH ST	1	4	5	9
PORT ST LUCIE BLVD	TULIP BLVD	DARWIN BLVD	1	4	5	9
BECKER RD	SOUTHBEND BLVD	GILSON RD	1	8		8
CALIFORNIA BLVD	SAVONA BLVD	DEL RIO BLVD	1	3	5	8
CAMEO BLVD	CALIFORNIA BLVD	CROSSTOWN PKWY	1	3	5	8
OLEANDER AVE	FARMER'S MARKET RD	WISTERIA AVE	2	3	5	8
PEACOCK BLVD	UNIVERSITY BLVD	CALIFORNIA BLVD	1	3	5	8
PRIMA VISTA BLVD	FLORESTA DR	NARANJA AVE	1	3	5	8
PRIMA VISTA BLVD	NARANJA AVE	RIO MAR DR	1	3	5	8
TULIP BLVD	PORT ST LUCIE BLVD	DARWIN BLVD	2	3	5	8

3.4 Final Identification of Phase 2 Locations

Upon completing the identification of congested and dangerous network locations two assessments were made. The first was to determine if the location has a programmed improvement already in place that would remove it from consideration in this current analysis. The impact of the currently programmed improvement will be measured and evaluated in subsequent CMPs. The second step included a review of the list with TPO staff and the key stakeholders to determine if any of the remaining high-ranking locations should be removed from consideration for one reason or another. Examples of reasons for removing locations from consideration could be previous studies that determined major capacity improvement were warranted (a large project solution only) or physical constraints.

This final step in the process of identifying which locations were to move forward to Phase 2 for further evaluation and identification of congestion management mitigation strategies and projects is illustrated in Table 3.5 on the next page.

Table 3.5 Prioritization Criteria and Point System

					AM/PM			Ph. 1	
Segment				No.	Combined	Crash	Crash	Total	In 2018
ID	On Street	From Street	To Street	Segments	Score	Type	Score	Score	CMP?
22920	EAST TORINO PKWY	TORINO PKWY	MIDWAY RD	1	10			15	
23391	SAVONA BLVD	BECKER RD	GATLIN BLVD	2	10	S	5	15	
2400	DARWIN BLVD	BECKER RD	PAAR DR	1	9	S	5	14	
6530	OLEANDER AVE	BELL AVE	FARMER'S MARKET RD	1	9			14	j
1840	BAYSHORE BLVD	PRIMA VISTA BLVD	SELVITZ RD	2	9	F	5	13/14	
3110.1	FLORESTA DR	THORNHILL DR	CROSSTOWN PKWY	1	7	S	5	12	
6550.11	OLEANDER AVE	WISTERIA AVE	GARDENIA AVE	1	7	S	5	12	
6840	PORT ST LUCIE BLVD	FLORIDA'S TURNPIKE	BAYSHORE BLVD	1	2		5*	12*	
7520	SELVITZ RD	GLADES CUT-OFF RD	EDWARDS RD	1	6	S	5	11	
2120	CALIFORNIA BLVD	DEL RIO BLVD	CROSSTOWN PKWY	1	10			10	
2130.1	CALIFORNIA BLVD	CROSSTOWN PKWY	ST LUCIE WEST BLVD	2	10			10	Υ
2160	CALIFORNIA BLVD	PEACOCK BLVD	TORINO PKWY	1	10			10	
2210	CASHMERE BLVD	ST LUCIE WEST BLVD	TORINO PKWY	2	10			10	Υ
3600	GILSON RD	MARTIN C.L.	BECKER RD	1	10			10	
3090	SOUTHBEND BLVD	BECKER RD	FLORESTA DR	1	10			10	
1830	BAYSHORE BLVD	CROSSTOWN PKWY	PRIMA VISTA BLVD	1	4	S,F	5	9	Υ
1860	BAYSHORE BLVD	SELVITZ RD	ST JAMES DR	1	9			9	
22910.2	EAST TORINO PKWY	CASHMERE BLVD	TORINO PKWY	1	4	S	5	9	
2810	EDWARDS RD	SELVITZ RD	25TH ST	1	4	F	5	9	
6803	PORT ST LUCIE BLVD	TULIP BLVD	DARWIN BLVD	1	4	F	5	9	Υ
1940	BECKER RD	SOUTHBEND BLVD	GILSON RD	1	8			8	Y
Note:	Blue highlighted segments indicate programmed improvements scheduled by City of Port St Lucie								
	Yellow hughlighted segments are selected for CMP								

The list of segments advanced for evaluation of projects and mitigation measures are shown below. It is understood that funds are limited with only \$300,000 to \$400,000 available every year for CMP projects. Therefore, only the top 10 locations were considered for recommended projects at this time. Each location was considered for applicable types of remediation projects identified in the CMP Toolbox.

	ON STREET	FROM STREET	TO STREET		
1	Oleander Ave	Bell Ave	Farmer's Market Rd		
2	Oleander Ave	Wisteria Ave	Gardenia Ave		
3	Port St Lucie Blvd	Florida's Turnpike	Bayshore Blvd		
4	Selvitz Rd	Glades Cut-Off Rd	Edwards Rd		
5	California Blvd	Del Rio Blvd	Crosstown Pkwy		
6	Gilson Rd	Martin C.L.	Becker Rd		
7	Bayshore Blvd	Crosstown Pkwy	Prima Vista Blvd		
8	Bayshore Blvd	Selvitz Rd	St James Dr		
9	Edwards Rd	Selvitz Rd	25th St		
10	Becker Rd	Southbend Blvd	Gilson Rd		

4. CMP TOOLBOX

FHWA's Congestion Management Process: A Guidebook identifies applicable CMP Toolbox measures to address congested and dangerous locations. Each of the toolbox measures was considered for the top locations identified and advanced for Phase 2.

Applicable CMP Toolbox Measures	
Multimodal Improvements	
Sidewalks	
Bikes	
Transit	
TSM&O	
ITS	
ATMS	
Demand Management	
Flex Time	
Van Pools	
Park-n-Ride	
Roadway Capacity Improvements	
Add Lanes	
ROW Constrained	
Turn Lanes	

5. PHASE 2 EVALUATION

The highest priority locations without programmed improvements were advanced for further evaluation and screened for potential mitigation strategies from the CMP Toolbox. This section discusses each congested location in more detail and where applicable recommends congestion mitigation, operational, and safety projects.

Each of these locations was discussed with the Key Stakeholders during the second stakeholders' workshop to better understand causes of congestion and potential mitigation strategies. Some of the locations have been studied previously and some had projects completed in the recent past. In general, all the locations were well known to the Key Stakeholders and in keeping with CMP project funding levels, low-cost options were considered. In some instances, a readily identifiable mitigation project is not apparent and further study outside of the CMP is required.

5.1 Analysis and Recommended Improvements

5.1.1 Oleander Avenue, from Bell Avenue to Farmers Market Road

This segment of Oleander Avenue is currently congested in both the AM and PM peak hours of traffic. The segment is a 35 mph, two-lane undivided facility. There are currently no raised curbs, sidewalks, or designated bicycle facilities along the segment, although there are pre-construction phases of the St Lucie Walk-Bike Network identified in the CIP. Issues affecting congestion along this short segment include cut-through traffic making the jog on Oleander between Bell Avenue and Farmers Market Road, connecting 25th Street to the west with US 1 to the east. This cut-through traffic increases traffic volume on the segment, while impacting through traffic due to the turning vehicles onto and from Oleander Avenue from both Bell Avenue and Farmers Market Road. There is also notable trucking activity on the east side of Oleander Avenue at the Freshco Packaging Company which has a site driveway on Oleander, offset from the intersection with Bell Avenue.

It is recommended that intersection improvements be considered for the intersections of Oleander Avenue at Bell Avenue and Oleander Avenue at Farmers Market Road. The addition of left and right turn lanes on Oleander Avenue will accommodate traffic entering and exiting from the cross streets without impeding the flow of through traffic on the mainline. Oleander, Bell, and Farmers Market are all listed on the St Lucie Walk-Bike Network as either partially funded or unfunded needs, so this should be taken into consideration when planning the intersection improvements.



Figure 5.1 Oleander Avenue between Bell Avenue and Farmers Market Road

5.1.2 Oleander Boulevard, from Wisteria Avenue to Gardenia Avenue

This segment of Oleander Boulevard is currently congested in the AM peak-hour, and nearing congestion in the PM peak-hour of traffic. The segment is a 35 mph, two-lane undivided facility in a residential area. There are currently no raised curbs or designated bicycle facilities along this segment. A five-foot sidewalk exists along the west side of the street. Mid-segment, Maravilla Park exists providing several sports amenities



Figure 5.2 Pedestrian and Bicycle Improvements

to the neighborhood. However, there are no sidewalks or designated bike facilities adjacent to the park, providing direct access to the park. At the north end of this segment, Gardenia Avenue provides access to a signalized intersection at US 1.

Rosalyn Avenue runs along the south side of Maravilla Park, intersecting with Oleander Boulevard at an offset intersection with Barbados Avenue. In 2022, during the PM peak-hour of traffic, a severe injury crash occurred as a vehicle attempted a left-turn to enter the intersection. South of this intersection, at Azalea Avenue there was a fatal bicycle involved crash during the analysis period.

In order to better serve all modes of access to Maravilla Park and improve safety along the corridor, it is recommended that the following pedestrian and bicycle improvements be considered: Provide a multi-use path along the east side of the corridor, for providing direct access for pedestrians and cyclists to Maravilla Park and connecting to existing sidewalks along Wisteria, Rosalyn, Maple, and Gardenia Avenues. Provide well-marked crosswalks with flashing beacons on Oleander at Rosalyn Avenue, Antilles Avenue, and Azalea Avenue, with advance signage along Oleander to increase awareness and promote caution at these locations.

5.1.3 Port St Lucie Boulevard at Bayshore Boulevard

This intersection connects Port St Lucie Boulevard, which is a multi-lane divided state road, with Bayshore Boulevard, a City of Port St Lucie multi-lane divided roadway, and provides access to the Florida's Turnpike (Figure 6-3, below). The south leg of this intersection provides access to the Florida's Turnpike ramps and southern Bayshore Boulevard. While overall congestion along Port St Lucie Boulevard from the Turnpike to Bayshore Boulevard was not flagged during the Phase 1 congestion analysis, safety and stakeholder scoring has ranked this intersection in the priority list. Of primary concern is the eastbound to northbound left-turn lane, which tends to back up during peak periods, causing spill-back of left-turning traffic into the throughtraffic lanes and failing to meet turning movement demand during each cycle of the traffic signal. Recent improvements to this intersection were made to address the westbound to southbound left-turn movement, and related issues with the following left-turn to access Bayshore Boulevard to the south. During the analysis period, several severe-injury crashes occurred at or near this intersection.

Increasing storage for the eastbound left turn, whether through extending the lane or adding a second left turn lane, may be problematic since the eastbound approach to this intersection is descending off the overpass bridge over the Turnpike, immediately to the west of the intersection. Additional right-of-way and structural requirements may be restrictive to adding an additional lane due to the overpass, and extending the left turn lane would require additional green time for the movement which could adversely impact the other intersection movements, including the recently improved westbound left-turn.

Operation of this intersection directly impacts roadways under the Florida Department of Transportation District operations, the Florida's Turnpike Enterprise, and the City or Port St Lucie. Complex considerations are at play to meet the demands of travelers and the needs of all stakeholders.

It is recommended that agency stakeholders meet to find a cooperative and collaborative solution to ongoing issues regarding the safe and efficient operation of this intersection, meeting the needs of all parties.

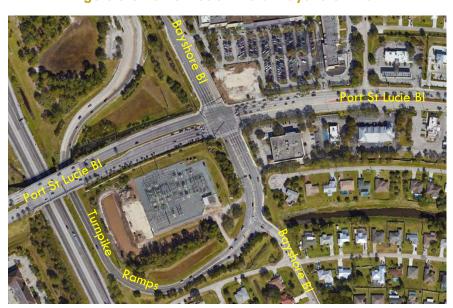


Figure 5.3 Port St Lucie Blvd at Bayshore Blvd

5.1.4 Selvitz Road, from Glades Cut-off Road to Edwards Road

This segment of Selvitz Road is currently very near congestion in both the AM and PM peak hours of traffic. The segment is a 35 mph, two-lane undivided facility. There are currently no raised curbs, sidewalks, or designated bicycle facilities along the segment, and there have been several severe-injury crashes along the segment during the analysis period. However, during coordination with stakeholders during the second



Figure 5.4 Glades Cut-off / Selvitz Road Realignment

Stakeholder Working Group session, plans were presented for planned improvements and realignment of Glades Cut-off Road and Selvitz Road in the vicinity of the study area. Therefore, no mitigation strategies are proposed for this segment at this time.

5.1.5 California Boulevard, from Del Rio Boulevard to Crosstown Parkway

This segment of California Boulevard is currently congested in both the AM and PM peak hours of traffic. The segment is a 40 mph, two-lane undivided residential collector. There is a sidewalk along the east side, with a partial sidewalk along the northern part of the west side. Approximately 65% of the daily traffic on this roadway segment continues along California Boulevard to the south, with approximately 35% of the traffic travelling from/to Del Rio Boulevard at the south end of the segment.

This section of California Boulevard is listed in the current LRTP for widening to four lanes in the 2026 to 2030 period, however the City of Port St Lucie is securing additional funding to move this project up on the schedule.

Due to the residential nature of the study area, it is recommended that additional consideration be given to bicycle and pedestrian safety with the planned capacity improvements to this roadway segment. As shown in Figure 5-5, below, California Boulevard and Del Rio Boulevard are both residential in character, as is the surrounding area.



Figure 5.5 California Blvd, from Del Rio Blvd to Crosstown Pkwy

5.1.6 Gilson Road, from Martin County Line to Becker Road

This segment of Gilson Road is a two-lane County Road that is currently congested in both the AM and PM peak hours of traffic. There are very few driveways or intersections along the roadway segment, and no pedestrian or designated bicycle facilities. Traffic analysis indicates that morning peak traffic is traveling southbound to Martin County, returning northbound in the PM peak-hour. The intersection of Gilson Road with Becker Road was recently improved with a roundabout, including crosswalks connecting to the sidewalks along Becker Road and a section of sidewalk along the Gilson Road between the crosswalks on the east



Figure 5.6 Gilson Road, from Martin County Line to Becker Road

side of the roundabout. South of the county line, the roadway continues as Murphy Road, a two-lane facility, in Martin County.

Recently, the Murphy Road bridge, south of the Martin County line was replaced as a two-lane facility. Murphy Road is in the 2045 Martin County MPO Long Range Transportation Plan as being widened from two to four lanes during the 2036 to 2045 period.

Gilson Road, from Martin County Line to Becker Road, is recommended for further study to address congestion issues. Additionally, coordination with Martin County is recommended in order that improvements, when scheduled, are planned to benefit the entire roadway and its users on both sides of the county line.

5.1.7 Bayshore Boulevard, from Crosstown Parkway to Prima Vista Boulevard

This segment of Bayshore Boulevard is a 40 mph, four-lane divided roadway that is currently approaching congestion in both the AM and PM peak-periods of traffic. There is a sidewalk along the west side of the

segment and a multi-use path along the east side, providing access for pedestrians and cyclists. Bayshore Boulevard in this area serves as a collector road to a largely residential area and there are a large number of driveways along this segment.

During the analysis period, three severe-injury crashes and one fatal crash occurred along this segment. None of these crashes appear to have been influenced by peak-hour traffic conditions, and only one occurred at an intersection.

A traffic signal with full pedestrian phasing was recently installed at the intersection of Bayshore Boulevard and Lakehurst drive.

It is unknown if the new signal at Lakehurst Drive will have an impact on traffic metering as the only signal between the termini of this segment, and if such metering will mitigate severe vehicular crashes. Continued monitoring of traffic congestion and crashes is recommended. TSM&O / ATMS solutions include possible future real-time monitoring and adaptive traffic control to provide mid-segment traffic metering.

Figure 5.7 Severe Injury & Fatal Crashes



5.1.8 Bayshore Boulevard, from Selvitz Road to St James Drive

This segment of Bayshore Boulevard is currently congested in both the AM and PM peak hours of traffic. The segment is a 40 mph, two-lane undivided facility. There are currently no raised curbs, or designated bicycle facilities along the segment. A sidewalk runs along the south side of the street and there are crosswalks at the roundabout at Selvitz Road and at the signalized intersection with St James Drive. The area is residential and there are many residential driveways along the segment. Bayshore Boulevard becomes Airoso Boulevard west of the intersection at St James Drive. Continued monitoring of traffic congestion and crashes is recommended.



Figure 5.8 Bayshore Blvd / Airoso Blvd, from Selvitz Rd to St James Dr

5.1.9 Edwards Road, from Selvitz Road to 25th Street

This segment of Edwards Road is currently approaching congestion in both the AM and PM peak periods of traffic. The segment is a 45 mph, two-lane undivided facility with five-foot paved shoulders. There are currently no raised curbs, or pedestrian facilities along the segment. During the analysis period, there was one fatal pedestrian crash along the segment during the AM peak hour of traffic.

At this time, it is not known what the impact of the major realignment of Glades Cut-off Road and Selvitz Road at the west end of this segment will have on traffic conditions of Edwards Road. Continued monitoring of traffic congestion and crashes along this segment is recommended.



Figure 5.9 Edwards Rd, from Selvitz Rd (Future Glades) to 25th St

5.1.10 Becker Road, from Southbend Boulevard to Gilson Road

This segment of Becker Road includes sections of both four-lane and two-lane roads in an area of recent and ongoing development. The segment is currently congested in both AM and PM peak periods but is being analyzed as a two-lane facility and needs several updates for more accurate assessment and evaluation.

It is recommended that the analysis segment of Becker Road, from Southbend Boulevard to Gilson Road be split at the new point where the four-lane section becomes two-lane, east of Veranda Reserve Boulevard. Additionally, the eastern segment comprising the two-lane portion of Becker Road should be assigned a new traffic count station to be added to the St Lucie TPO annual traffic count program. Both new segments of Becker Road are recommended for further study to address remaining congestion issues under the proposed analysis recommendations.



Figure 5.10 Becker Road Analysis Segmentation

5.1.11 29th Street, from Orange Avenue to Avenue M

During the final stakeholder meeting, it was requested that 29th Street from Orange Avenue to Avenue M in Fort Pierce be added to the St Lucie TPO roadway analysis network for annual traffic monitoring, inclusion

in the TPO Traffic Data Management System (TDMS), and consideration in the Congestion Management Process. Discussion was held regarding several traffic-related issues, including the absence of traffic counts, and speeding along this roadway.

A recommendation was made to include the segment in the TDMS and TPO roadway analysis network for traffic count monitoring. An additional recommendation was made for consideration of traffic calming strategies along the segment to reduce speeding, particularly in the vicinity of Pioneer Park on Avenue M.

Figure 5.11 29th Street
Traffic Calming



6. CONCLUSIONS & IMPLEMENTATION

The previously referenced Congestion Management Process: A Guidebook published by FHWA in 2011 defines congestion management as follows:

"Congestion management is the application of strategies to improve transportation system performance and reliability by reducing the adverse impacts of congestion on the movement of people and goods. A congestion management process (CMP) is a systematic and regionally accepted approach for managing congestion that provides accurate, up-to-date information on transportation systems performance and assesses alternative strategies for congestion management that meet state and local needs. The CMP is intended to move these congestion management strategies into the funding and implementation stages."

This 2024 CMP Major Update by the St. Lucie TPO accomplishes all these objectives. Primarily, the TPO is dedicated to updating and maintaining on a regular basis data that is used to assess congestion consistently and on a regular basis. This allows for an accurate system and corridor-level evaluation of congestion within the TPO area. This CMP quantifies and ranks congestion on roadway segments which allows for the limited funding resources to be applied to locations where they will have the greatest impact. In application of the funds, this CMP considers all proven congestion mitigation approaches and safety enhancement that will be effective in serving the community.

This CMP goes to a deeper analytical level than most CMPs by analyzing and recommending specific project improvements. The process also engages local implementing agencies from the onset to ensure that everyone fully understands the value of the CMP and what can be accomplished through cooperation. The result is congestion management strategies that are ready to move into the funding and implementation stages.

Implementation of CMP strategies is a critical process and includes the following steps:

- Step 1 Determine funding sources.
- Step 2 Prioritizing strategies
- Step 3 Programming projects in the Transportation Improvement Program (TIP)

The funding source that amounts annually to approximately \$300,000 per year will be available for the St. Lucie TPO for the implementation of CMP strategies (CMP box funds). Several ranked roadway segments and intersections are, or will be, subject to or influenced by ongoing or planned improvements. These segments have been recommended for continued monitoring to assess the impact of said improvements. The prioritization of identified CMP strategic projects is detailed in Section 5 of this report. Prior to programming projects in the TIP, estimated construction costs based on current generalized construction costs will need to be updated. The CMP Implementation Plan is provided below in the List of Priority Projects in Table 6-1.

Table 6.1 2024 St Lucie TPO CMP List of Priority Projects

Project #	Project Segment	Improvement Description	Estimated Cost	1	2	3	4	5	
1	Oleander Ave from Bell Ave to Farmers Market Rd	Southbound left-turn lane and northbound right-turn lane at Farmers Market Rd.	\$300,000	\$300,000					
2	Oleander Blvd from Wisteria Ave to Gardenia Ave	Multi-use path along east side of ROW from Azalea Ave to Antilles/Windsor Ave.	\$260,000		\$260,000				
3	Oleander Blvd from Wisteria Ave to Gardenia Ave	Flashing beacon crosswalk, sidewalk- path connections at Roselyn Ave, Antilles Ave, and Azalea Ave.	\$90,000		\$90,000				
4	Oleander Ave from Bell Ave to Farmers Market Rd	Southbound right-turn lane and northbound left-turn lane at Bell Ave.	\$330,000			\$330,000			
5	California Blvd from Del Rio Blvd to Crosstown Pkwy	Bicycle and pedestrian safety improvements to enhance planned road widening.	\$300,000				\$300,000		
6	29th Street from Orange Avenue to Avenue Q	Install two to three speed humps/tables between Avenue D and Avenue Q for traffic calming.	\$60,000				\$60,000		
7	Bayshore Blvd from Crosstown Pkwy to Prima Vista Blvd	TSM&O / ATMS real time monitoring and adaptive traffic control for mid-segment traffic metering.	\$300,000					\$300,000	
	Estimated available revenue (from CMP box funds			\$300,000 - \$400,000					
	Revenue used for improvements			\$300,000		\$330,000		\$300,000	

The St. Lucie TPO's CMP has been utilized to allocate the TPO's CMP box funds of \$300,000- \$400,000 annually towards CMP projects in the TPO's List of Priority Projects (LOPP). LOPP project costs above have been estimated at the lower end of the funding range to allow for contingencies and inflationary effect.

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AGENDA I TEM SUMMARY

Board/Committee: Citizens Advisory Committee (CAC)

Meeting Date: July 23, 2024

Item Number: 7a

Item Title: Transportation Asset/Service Vulnerability

Assessment Update

Item Origination: Unified Planning Work Program (UPWP)

UPWP Reference: Task 3.9 – Environmental Planning

Requested Action: Discuss and provide comments

Staff Recommendation: It is recommended that comments such as

climate-related concerns and priorities be provided to be included in the Vulnerability

Assessments and Regional Resilience Plan.

<u>Attachments</u>

- Staff Report
- Presentation

Coco Vista Centre 466 SW Port St. Lucie Blvd, Suite 111 Port St. Lucie, Florida 34953 772-462-1593 www.stlucietpo.org

MEMORANDUM

TO: Citizens Advisory Committee (CAC)

THROUGH: Peter Buchwald

Executive Director

FROM: Stephanie M. Torres

Bicycle Pedestrian Program Manager

DATE: July 16, 2024

SUBJECT: Transportation Asset/Service Vulnerability

Assessment Update

BACKGROUND

As climate change continues to threaten both natural and built environments, the risk of impact to transportation infrastructure rises. Scientific studies predict that sea level rise will accelerate and, therefore, transportation infrastructure along the seacoast continues to be vulnerable to inundation in addition to other impacts from climate change such as seasonal flooding and storm surge.

The St. Lucie TPO completed the Sea Level Rise Mapping in 2019 to identify transportation infrastructure exposed to potential future flooding within the TPO area. To continue the integration of the consideration of impacts from climate change into the TPO's metropolitan planning program, the TPO's Unified Planning Work Program (UPWP) includes Transportation Asset/Service Vulnerability Assessment updates.

In 2020, St. Lucie County was awarded a Community Resilience Planning Grant through the Florida Department of Environmental Protection to perform Vulnerability Assessments within the County, which includes water resources, critical buildings and infrastructure, historic resources and vulnerable populations. Subsequently, the County secured a Community Development Block Grant for Mitigation through the Rebuild Florida General Planning Support Program. This grant supports a scope of work to develop a Regional Resilience Plan that includes unified hazard mitigation efforts to bolster social,

July 16, 2024 Page 2 of 3

economic, and environmental resilience from acute and chronic stressors related to the impacts of natural disasters and regional climate changes.

The Vulnerability Assessments and Regional Resilience Plan are further supported by the Resilience Planning Steering Committee. The TPO is a key member of the Committee and have been working collaboratively with the St. Lucie County Environmental Resources Department (ERD) during the development of the Vulnerability Assessments and Regional Resilience Plan. The St. Lucie County ERD will present an update on the Vulnerability Assessments and Regional Resilience Plan.

ANALYSIS

The Vulnerability Assessments and Regional Resilience Plan together are a comprehensive initiative aimed at identifying and addressing St. Lucie County's most pressing climate-related risks. The initiative aims to provide a clear picture of the County's current vulnerabilities and develop strategies to mitigate potential impacts from climate change, such as sea level rise, flooding, and intensified storms. The initiative will also evaluate the resilience of critical County and local agency buildings and infrastructure to ensure they can withstand and recover from natural disasters. The initiative objectives revolve around the following key goals:

- 1) Develop a cohesive strategy for resilience;
- 2) Address climate hazards, complying with state legislation;
- 3) Guide resilience actions and community partnerships; and,
- 4) Increase eligibility for State and Federal grant funding.

The Resilience Planning Steering Committee is also comprised of representatives from local city governments, emergency management, community health, regional planning, and other key sectors. This collaborative effort aims to create a comprehensive plan that enhances the County's ability to withstand and recover from natural disasters and climate related stressors. The role of the Committee includes not only reviewing the deliverables from the consultants but also coordinating with respective agencies on technical review, policy development, and communication support.

Because local agencies will play a crucial role in the success of this initiative, the Committee members are encouraged to provide valuable data on past incidents and current preparedness levels helping to identify gaps and areas for improvement. Local agencies can provide insights into the needs of vulnerable populations ensuring the strategies developed are inclusive and equitable. The evaluation of the resilience of the transportation network will be included in the initiative, and enhancements to support evacuation and

July 16, 2024 Page 3 of 3

recovery efforts will be proposed based on the results of the data provided by local partners. This collaborative approach not only strengthens the findings of the initiative but also fosters a sense of shared responsibility and commitment to building a more resilient St. Lucie County.

RECOMMENDATION

It is recommended that comments such as climate-related concerns and priorities be provided to be included in the Vulnerability Assessments and Regional Resilience Plan.

























Project Team



Project Objectives

1

Develop a cohesive strategy for resilience

2

Address climate hazards, complying with state legislation

3

Guide resilience actions and community partnerships

4

Increase eligibility for State and Federal grant funding

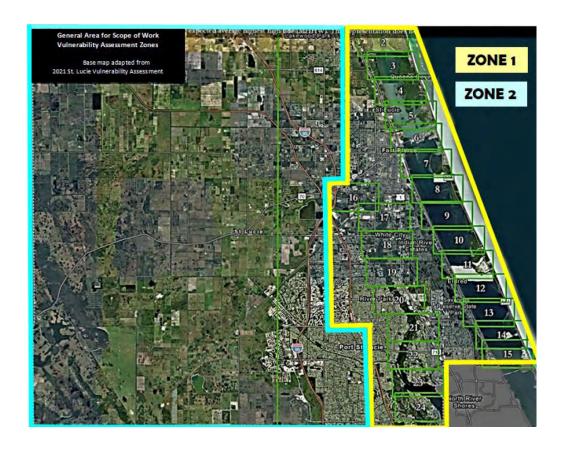
Funding sources: FDEP Resilient Florida Planning Grant & CDBG MIT Dept of Commerce





Scope of Work - Resilient Florida

- VA and Shoreline & Habitat Study Zone 1
 - Update to 2021 community-wide SLR VA pursuant to FS section 380.093(3)(c)
 - Evaluate exposure and sensitivity of County assets to climate threats
 - 2040, 2070, and 2100 flooding projections modeled
 - SLAMM Modeling to ID habitat transitions
 - Existing shoreline & habitat infrastructure data
 - Modeling processes for inundation, erosion, accretion, salinity, over wash, saturation
- Natural Resources, Cultural, and Historical VA Zones 1 & 2
 - Evaluate natural resources and determine vulnerabilities to climate hazards through modeling for current and future development projections
 - ID and analyze threats to sensitive ecosystems
 - Tree canopy assessment using existing LiDAR
 - Cost-benefit analysis
 - Inventory sensitive lands for future protection and conservation

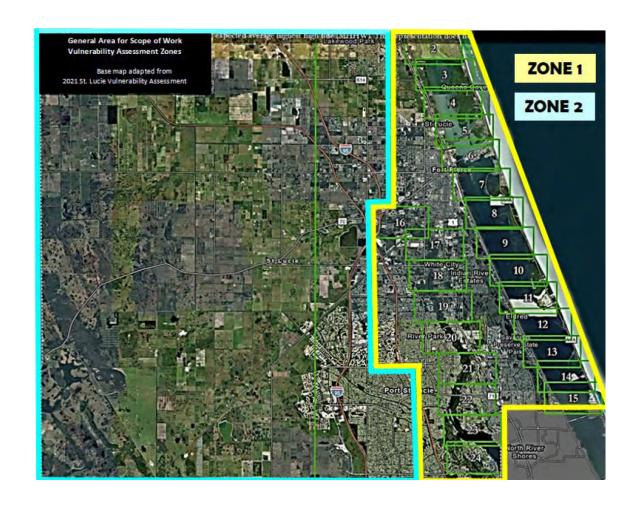






Scope of Work - CDBG-MIT

- VA Zones 1 & 2
 - Evaluate vulnerability and risk to FEMA Community
 Lifelines and identify hazard mitigations
 - Identify critical assets impacted and prioritize by need
 - Focus on reducing disruptions to local government operations, economic security, and human health and safety
 - Consider LMI communities
- Zones 1 & 2 watershed and heat mapping analysis
 - Compliant with FEMA criteria
 - Understand the potential magnitude, severity, and extent of these hazards on community and human health







Climate Hazards

- RF: VA: Shoreline & Habitat Study, and Natural, Cultural, and Historic Resources VA
 - Sea level rise, tidal, storm surge, rainfall induced, and compound flooding
- CDBG-MIT:
 - RF flood scenarios, extreme temperatures, drought, severe storms, coastal erosion, and wildfire





















Critical Assets - Section 380.093 F.S

Owned or maintained by county, cities, and other entities

- Transportation
 - Roads, Bridges, Rail, Marinas
- Critical Infrastructure
 - Non-buildings, all utilities
- Critical Community & Emergency Facilities
 - Schools, Health Care Services, Emergency operational facilities
- Natural, Cultural, & Historic Resources
 - Shorelines, Conservation Lands, Parks





Regionally Significant Assets

- Critical assets that support the needs of communities spanning multiple geopolitical jurisdictions, including, but not limited to:
 - ✓ Water resource facilities
 - ✓ Regional medical centers
 - ✓ Emergency operations centers
 - ✓ Regional utilities
 - ✓ Regional natural systems
 - Major transportation hubs and corridors
 - ✓ Airports
 - ✓ Seaports



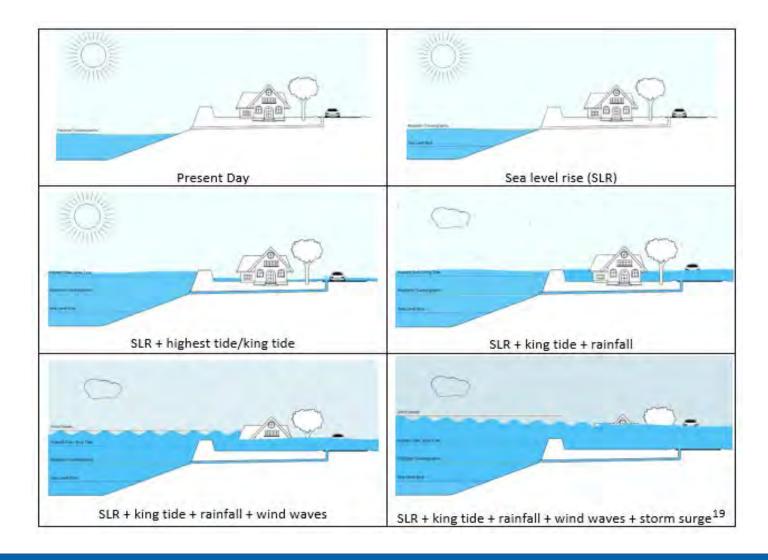
Resilient Florida Flood Scenarios

Future Projections:

2040

2070

2100







Resilient Florida Flood Scenarios

- Section 380.093(3)(d)3.a-c, F.S. requires:
 - All analyses in the North American Vertical Datum of 1988.
 - At least two local sea level rise scenarios, which must include the 2017
 National Oceanic and Atmospheric Administration intermediate-low and intermediate-high sea level rise projections.
 - At least two planning horizons that include planning horizons for the years 2040 and 2070.
- Proposed methodology provides analyses in NAVD88, use of NOAA Intermediate Low and High (2022) and 2040, 2070 & 2100 meeting <u>and</u> <u>exceeding</u> all Scenario and Standards requirements



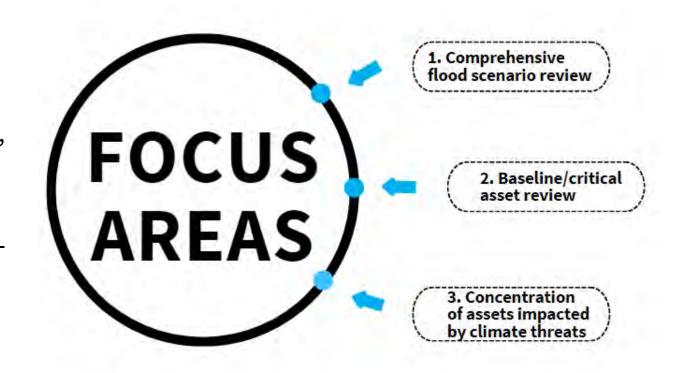


Focus Areas

Criteria for focus areas:

- There is an aggregation of critical assets at risk
- 2. The area is subject to either sea level rise, surge, rainfall or combined flooding risk today or by 2040 or 2070
- Areas identified as at-risk based on socioeconomic data or population vulnerabilities

<u>Purpose</u>: Helps prioritize where adaptation response should occur based on geographic area and timeline to impact







Sea Level Affecting Marsh Model (SLAMM)

- Open-sourced tool that simulates the dominant processes involved in wetland conversions and shoreline modifications during long-term sea level rise.
- Addresses various wetland scenarios, including inundation, erosion, over wash, saturation, and salinity
- Can evaluate conservation lands, shorelines, surface waters and wetlands
- SLAMM provides a robust land cover change (conversion) and marsh migration dynamics
- Outputs are compatible with GIS software for viewing and analysis





SLAMM Output

Example Sum of All Habitat Countywide

					Change from		Change from		
Habitat Type	Present	2040	Change	2070	Present	2040	2100	Present	2070
Developed Dry Land	18117.0	15650.2	-14%	9457.7	-48%	-40%	4660.3	-74%	-70%
Undeveloped Dry Land	13885.0	8441.5	-39%	4607.6	-67%	-45%	2243.0	-84%	-73%
Swamp	35076.6	160.0	-100%	61.8	-100%	-61%	36.5	-100%	-77%
Cypress Swamp	31795.3	15.1	-100%	0.1	-100%	-99%	0.0	-100%	-100%
Inland-Fresh Marsh	147827.4	788.3	-99%	68.3	-100%	-91%	25.0	-100%	-97%
Trans, Salt Marsh	0.0	452.1		67.8		-85%	1190.9		163%
Mangrove	342369.1	240306.2	-30%	24375.0	-93%	-90%	15148.5	-96%	-94%
Tidal Flat	3591.7	570.9	-84%	194.3	-95%	-66%	1025.7	-71%	80%
Ocean Beach	122.3	111.4	-9%	57.0	-53%	-49%	25.2	-79%	-77%
Rocky Intertidal	7978.6	3555.5	-55%	790.0	-90%	-78%	203.7	-97%	-94%
In land Open Water	573.6	195.7	-66%	86.7	-85%	-56%	56.4	-90%	-71%
Estuarine Open Water	17664.2	314304.0	1679%	538375.5	2948%	71%	548125.6	3003%	74%
Open Ocean	1596.4	1809.3	13%	2013.5	26%	11%	2097.3	31%	16%
rregFlooded Marsh	0.0	0.4		0.0		-100%	0.4		-8%
Tidal Swamp	15.1	4.5	-70%	2.4	-84%	-47%	1.0	-93%	-77%
Flooded Developed Dry Land	0.0	2466.8		8659.2		251%	13456.7		446%
Flooded Forest	0.0	31780.2		31795.2		0%	31795.3		0%
Aggregated Non Tidal	32002.0	26558.5	-17%	22724.5	-29%	-14%	20359.9	-36%	-23%
Freshwater Non-Tidal	214699.3	963.5	-100%	130.2	-100%	-86%	61.5	-100%	-94%
Open Water	19834.1	316309.0	1495%	540475.7	2625%	71%	550279.4	2674%	74%
.ow Tidal	11692.6	4237.8	-64%	1041.3	-91%	-75%	1254.6	-89%	-70%
Saltmarsh	0.0	0.0		0.0			520.6		
Transitional	342369.1	272539.0	-20%	56238.0	-84%	-79%	48135.2	-86%	-82%
Freshwater Tidal	15.1	4.5	-70%	2.4	-84%	-47%	1.0	-93%	-77%
GHG (10 ³ Kg/Metric Tons)		573559.9		562072.1		-2%	574672.1		0%

- Shows percent change in each habitat type: Increase in estuary, decrease in dry land
- Calculates carbon sequestration changes based on habitat change
- Results inform policies and programs related to land acquisition, management and restoration
- This output will be used to develop the cost-benefit analysis





Community Stakeholder Engagement

- Collaborative approach:
 - Diverse stakeholders involved which may include elected officials/boards, other jurisdictional boards,
 Resilience Steering Committee, citizen stakeholders, sector stakeholders
 - In-person and virtual education and engagement sessions, public charettes, governmental board/council meetings
- Communication vehicles:
 - Social media
 - Project webpage
 - Printed materials and media
 - TV and radio
 - StoryMap

- Community Input
 - Community Survey
 - RF: 4 government and 6 community engagement meetings
 - CDBG-MIT: 12 government and 12 community engagement meetings

Plan Engagement Listen to Stakeholders

Evaluate & Coordinate

Present Hazards & Adaptation

Further Coordination

Document Engagement Outcome





Regional Resilience Plan

- Enhance County-wide resilience by offering climate adaptation and mitigation strategies based on identified risks
- Funding analysis, capacity assessment, and implementation plan
- Considerations will include hazard mitigation, emergency preparedness, land use planning, code & policy development, infrastructure investment, and public health policies & programs
- Informed by:
 - VA's, existing plans & studies, Resilience Steering Committee
- Lay the foundation for the St. Lucie Regional Resilience Plan







Adaptation Strategies



Grey Infrastructure (fortify, elevate, relocate)



Green
Infrastructure
(protect, restore,
augment)



Community
Education,
Programs, and
Readiness



Emergency Management Planning



Land Use and Code Guidelines





Role of Steering Committee

- Review deliverables and outputs, provide feedback
- Coordinate with your respective organizations/jurisdictions
- Sub-committees
 - Technical Sub-Committee (Engineering, Environmental): will be involved in vulnerability
 assessment kick-off meeting & review meetings; including data identification, review of modeling
 tools, review of draft VA, formatting utilized in maps, etc. [sub-committee has been established,
 includes Paul Thomas-FP Building Director, Peter May-PSL Stormwater, Josh Revord-SLC Coastal
 Engineer, Jenn McGee-SLC ERD]
 - Policy & Planning Sub-Committee will be involved in Comprehensive Plan and Policy considerations [to be established and include TCRPC, SLC, FP, PSL planners].
 - Stakeholder Engagement & Communications Sub-Committee will be involved in kick-off meeting and in developing messaging, marketing and stakeholder engagement opportunities, including identifying groups and opportunities to engage [to be established and include PIO's from SLC, PSL, FP].





Project Next Steps



PROJECT KICK OFF MEETING



DATA
COLLECTION
AND ANALYSIS



IDENTIFY DATA GAPS



FOR
FLOODING
AND OTHER
CLIMATE
RISKS



IDENTIFY FOCUS AREAS



PUBLIC ENGAGEMENT





Project Schedule



Target Completion Date Sept 2025



