



metroplan orlando

A REGIONAL TRANSPORTATION PARTNERSHIP

Transportation Systems Management and Operations (TSMO)
Advisory Committee

MEETING MINUTES

DATE: Friday, August 23, 2024
TIME: 8:30 a.m.
LOCATION: MetroPlan Orlando
David L. Grovdahl Board Room
250 South Orange Avenue, Suite 200
Orlando, Florida 32801

Chairman Brian Sanders, Presiding

Members Present:

Mr. Lenny Barden, City of Altamonte Springs
Mr. Cameron Crandell for Mr. Naol Barkessa, City of St. Cloud
Mr. Kelly Brock, City of Casselberry
Mr. Michael Lopez for Mr. Christopher Carson, City of Lake Mary
Ms. Christina Colón, Osceola County
Mr. Chris DeLoatche, GOAA
Ms. Alyssa Eide, City of Maitland
Mr. Hazem El-Assar, Orange County
Ms. Tonya Elliot Moore, Town of Windermere (virtual)
Mr. Eric Gordin, FTE
Mr. Brent Poole for Mr. Bryan Homayouni, Central Florida Expressway Authority
Mr. Richard Horn, City of Edgewood
Mr. Philip Hursh, City of Winter Springs
Ms. Louann Huynh, UCF
Mr. Doug Jamison, LYNX
Mr. Ramy Kamal, City of Kissimmee
Mr. Steve Krug, City of Ocoee
Mr. Hong Lim, City of Winter Park
Mr. Adam Mendenhall, City of Sanford

Mr. Anthony Nelson, Seminole County
Ms. Lee Pulham, Central Florida Tourism Oversight District
Mr. Brian Sanders, Orange County
Mr. Ramon Senorans, Kissimmee Gateway Airport
Mr. Shad Smith, City of Longwood
Ms. Maria Tejera, City of Orlando
Mr. Nabil Muhaisen for Mr. Akil Toussaint, City of Orlando
Ms. Amy Martello for Mr. Jonathan Williams, City of Winter Garden
Mr. Gary Yeager, Osceola County
Mr. Paul Yeargain, City of Oviedo

Voting Members Absent:

Mr. Butch Margraf, MPO Appointee
Mr. Michael Ortiz, City of Apopka
Mr. Phil Price, City of Belle Isle
Mr. Charlie Wetzel, Seminole County
Vacant, Orlando Sanford Airport

Non-Voting Members/Advisors Absent:

Vacant, Town of Eatonville
Vacant, Town of Oakland
Vacant, Orange County CTST
Vacant, Osceola County CTST
Vacant, Seminole County CTST

Others in Attendance:

Ms. Amy Beckman, FDOT District 5
Ms. Melissa McKinney, FDOT District 5
Mr. Jeremy Dilmore, FDOT District 5
Mr. Jim Stroz, FDOT District 5
Mr. Siaso Fine, FTE
Mr. Gary Huttman, MetroPlan Orlando
Ms. Virginia Whittington, MetroPlan Orlando
Mr. Alex Trauger, MetroPlan Orlando
Mr. Eric Hill, MetroPlan Orlando
Ms. Taylor Laurent, MetroPlan Orlando
Ms. Lara Bouck, MetroPlan Orlando
Ms. Mary Ann Horne, MetroPlan Orlando
Mr. Mighk Wilson, MetroPlan Orlando
Ms. Leilani Vaiaoga, MetroPlan Orlando
Mr. Slade Downs, MetroPlan Orlando
Ms. Sarah Larsen, MetroPlan Orlando
Mr. Jason Sartorio, MetroPlan Orlando
Ms. Adriana Rodriguez, MetroPlan Orlando
Ms. Lisa Smith, MetroPlan Orlando
Ms. Rachel Frederick, MetroPlan Orlando

I. **CALL TO ORDER**

Chairman Brian Sanders called the meeting to order at 8:30 a.m. and welcomed everyone. Chairman Sanders detailed the meeting guidelines and the public comment procedures.

II. **CHAIRS ANNOUNCEMENTS**

None.

III. **AGENDA REVIEW**

Mr. Eric Hill welcomed all. As there were a few new members, Mr. Hill asked all members to introduce themselves one by one. The new members attending in person today were: Philip Hursh – City of Winter Springs, Louann Huynh – UCF, Ramy Kamal – City of Kissimmee, and Anthony Nelson – Seminole County.

Mr. Hill continued to share announcements that included:

- > FDOT Mobility Week 10/25 – 11/02
- > The Opening of DeLand SunRail station 8/12
- > The Blind Experience 10/30
- > 8th Annual Bike 5 Cities – 10/26

He announced that Ms. Lara Bouck had been given a recent promotion and was now the Manager of Project Development at MetroPlan Orlando.

Continuing, Mr. Hill shared a 2050 MTP Status Update and asked members to click on the link to complete a prioritization Goal Area Weighting Survey by 9/6. He also reminded members that feedback was needed on the draft off-system Needs Assessment Coordination by 9/13, and individual meetings with each jurisdiction are in the process of being scheduled to assist with that.

He also confirmed the re-scheduled date of the Artificial Intelligence Capability Maturity Model Workshop by FDOT, was now on August 1st.

Mr. Mighk Wilson presented the Safety Moment, 'Stop on Red Month' for August. Statistics shared as averages for 2018 thru 2022, were 170 KSI crashes per year, 21 Fatal Crashes per year with 42% involving drivers aged 15 to 29 and 45% involving distracted driving. Mr. Wilson offered some engineering approaches to increase numbers stopping on red, and reducing KSI incidents, including improving signal timing, automated enforcement and replacing signals with roundabouts. He also noted behavioral changes that can improve the statistics.

IV. **AGENCY REPORTS – FDOT**

Ms. Amy Beckmann, FDOT, presented firstly by sharing information regarding the 2055 Florida Transportation Plan and dates of workshops which will be forwarded by email after the meeting. She also shared that FDOT district 5 recently won 2 awards issued by the American Association of State Highway & Transportation Officials (AASHTO) at America's Transportation

Awards. One was Wekiva Parkway Section 7A and the other, Orange Blossom Trail Pedestrian Safety Improvements. She also shared the road closure schedule of Sand Lake Road at I-4 to allow for the installation of a new bridge structure.

A member commented on the increase in truck traffic on Orange and Michigan Avenue, through the City of Edgewood. Although this had not be directly correlated, it was thought to be a side effect of the new improvements made on Orange Blossom Trail.

V. **ROLL CALL & CONFIRMATION OF QUORUM**

Ms. Rachel Frederick conducted the roll call and confirmed there was a quorum.

VI. **PUBLIC COMMENTS ON ACTION ITEMS**

None.

VII. **ACTION ITEMS**

A. **June 28, 2024, TSMO Meeting Minutes**

Approval is requested of the meeting minutes for June 28, 2024.

MOTION: Shad Smith moved to approve the June 28, 2024, TSMO meeting minutes, Hazem El-Assar seconded the motion. Motion passed unanimously.

B. **FDOT Amendment to FY 2025 - 2029 TIP**

Mr. Jason Sartorio presented four TIP amendments as below:

- FM #446163-1: Central Casselberry Connectivity Improvement from Hibiscus Rd to Marigold Rd – increases local funds for construction in FY 2025

Including new projects as follows:

- FM #454947-1: Orange-CFRTA/LYNX Bus Shelter Refacing & Bus Shelter Solar Technology
- FM #454971-1: Orange-CFRTA/LYNX Central Station Bus Terminal Retrofit
- FM #454971-2: Orange-CFRTA/LYNX Pull-outs and Safety Enhancements

Mr. Jason Sartorio requested the approval of the amended TIP as presented.

MOTION: Shad Smith moved to recommend approval of the 2025 -2029 TIP amendments as presented. Ramon Senorans seconded the motion. Motion passed unanimously.

C. FDOT Roll-Forward Amendment to FY 2025 - 2029

Mr. Jason Sartorio presented the Roll-Forward Amendment for projects which had funding in FY 2024, but the funds were not committed by the end of the fiscal year and so roll forward to fiscal year 2025. The TIP needs to be amended to reflect FDOT's work program, and this is a routine procedure that happens each year.

MOTION: Maria Tejera moved to approve the Roll-Forward amendment as presented. Ramon Senorans seconded the motion, which passed unanimously.

D. Regional Vision Zero Action Plan

Mr. Mighk Wilson presented, asking for the adoption of the Regional Vision Zero Action Plan. He began by detailing how feedback on the draft report was collected, including the survey results and then shared some examples of the comments received. Mr. Wilson then noted the substantive changes made to the final version, which included a 'What's Next' section, identified the maintaining agency for the top 30 corridors & intersections, and added additional details to the Road Safety Audit Action Plan.

Mr. Wilson noted the Resolution the Committee was being asked to recommend approval of, includes the target of zero fatalities by 2050, the continuation of the Vision Zero Task Force, commitment to annual monitoring, continuing to focus on transportation for underserved communities, reframing KSI as preventable and acknowledging that the Regional Vision Zero Action Plan is an overarching plan with support for county and local VZAP implementation.

MOTION: Shad Smith moved to approve the resolution and plan as presented. Ramon Senorans seconded the motion, which passed unanimously.

VIII. PRESENTATIONS & STATUS REPORTS

A. Smart Radar System

Mr. Randy Wheeler, Director of School Bus Transportation for Osceola County began the presentation outlining the safety elements already in place in school buses. However, he stated that school bus encounters with pedestrians are still a concern. Mr. Wheeler had met with Smart Radar Systems from South Korea on this topic, and Dr. Paul Kim then presented on their smart radar system.

Dr. Kim began by outlining the evolution of Smart Radar Systems and some of the customers and partners they work with. He noted two concerns they identified with school buses – Exterior Scanning - students or pedestrians getting harmed by the bus when they are too close or crawl underneath to retrieve something, and also Interior Scanning - when students may get left on a bus. From January 2024 to present, through collaboration and testing, Dr. Kim and his team were able to install a scanning prototype on a school bus.

Smart Radar Systems have worked on reducing the cost of the scanner and will be available in

October 2024. Dr. Kim outlined the preference of using radar as opposed to camera's, which present privacy concerns and gave examples where radars are used in South Korea. He detailed the requirements Osceola School District needed, prioritizing ease of use, safety and cost. After Dr. Kim was able to test drive a school bus in a simulated environment, they realized the driver has so much to be aware of that the radar alert had to omit a sound so as not to make them look at a screen. If one of the four radars fitted to the bus was triggered, then a sound would be heard, and a system of lights would be shown on an LED panel.

To scan inside the bus, Dr. Kim stated that 11 radars were installed under the seats and 6 radars in the ceiling. He detailed the process of bus driver would go through to allow the radar to scan the bus, which happens once the ignition is turned off. The radar scan occurs and if a person is detected an alarm is sent to a control system. He also detailed a camera system they are working on where it counts the number of students entering the bus. For privacy reasons the camera will only focus on the top of a student's head, but this system will count students on and off the bus. Also being worked on is an Advanced Driver Assistant System (AEB, ACC) which allows autonomous emergency braking system. This again uses a 4D imaging radar and camera and is going through proof-of-concept stage.

Dr. Kim continued presenting on radars which he commented are crucial for Vision Zero. He began by comparing 3D v 4D and stated that Smart Radar Systems are leading the transition from 3D to 4D. He noted that 4D can significantly enhance various applications, including autonomous driving, surveillance, and intelligent transport systems. Dr. Kim shared an example in Tucson, Arizona where converting to ITS had dramatically reduced intersection waiting times and the number of signals a driver has to pass through. He also highlighted a case in Korea where a radar detects speeding vehicles, and this requires less maintenance than loop coil detectors. Also noted was the use of 4D imaging on a police car that can detect 6 speeding vehicles simultaneously. This is currently in the trial stage and is expected to be deployed in the field by late 2025. Finally, Dr. Kim noted that Smart Radar Systems are working on Sensor Fusion – (4D radar + camera) with partners in autonomous driving, security and ITS to deliver advanced perception. Smart Radar Systems believe this will be a game changer in ITS. Comments from the committee included, how to work with such large amounts of data that the radars are collecting, how often an upgrade of the radars would be required and the cost feasibility of a radar system.

IX. COMMON PRESENTATIONS & STATUS REPORTS

The following common presentations were on the agenda for the Technical Advisory Committee meeting immediately following the TSMOAC meeting:

A 2024 Public Opinion Survey Results

Dr. Sara Strickhouser
Summit Research

Ms. Sara Strickhouser, Summit Research, will give a presentation on the results of the 2024 Public Opinion Survey.

B Status Update of Electric Vehicle (EV) Readiness Study

Mr. Eric Hill
MetroPlan Orlando

Mr. Eric Hill, MetroPlan Orlando, will give a presentation on the EV Readiness Study.

C Presentation on LYNX Autonomous Shuttle Deployment

Mr. Doug Jamison
LYNX

Mr. Doug Jamison, Program Administrator of Innovation at LYNX, will be presenting the Lessons Learned from the Swan Shuttle Autonomous Vehicle Demonstration. This demonstration deployed two autonomous shuttle vehicles on the LYMMO Orange system for six months, ending in June 2024. The demonstration was conducted to identify the readiness of the technology to provide transit service that meets the passengers needs, and to document where it needs further development.

X. GENERAL INFORMATION

- A. FDOT Monthly Construction Status Report** –The latest FDOT Monthly Construction Status Report for the MetroPlan Orlando area was enclosed.
- B. Highlights from July 10, 2024, MetroPlan Orlando Board Meeting** – A series of highlights and notable actions from the most recent MetroPlan Orlando Board Meeting.
- C. Air Quality Report** – The latest air quality report for the MetroPlan Orlando area was enclosed.
- D. Bicycle and Pedestrian Report** – A report on bicycle and pedestrian projects in the MetroPlan Orlando region was enclosed.
- E. LYNX Press Releases** – One press release from LYNX was included.
- F. PD&E Tracking Status Report** – A report providing the latest status of the PD&E studies currently underway in the MetroPlan Orlando area was enclosed.

XI. UPCOMING MEETINGS OF INTEREST

A list of selected upcoming meetings is below. For more information and a full list of upcoming meetings: [MetroPlan Orlando Meeting Calendar](#)

- A. Community Advisory Committee (CAC)** – August 28, 2024
- B. Municipal Advisory Committee (MAC)** – September 5, 2024

- C. MetroPlan Orlando Board – September 11, 2024
- D. CAC Workshop (*Held Virtually*) – September 18, 2024
- E. LYNX Board (at *LYNX Central Station*) – September 26, 2024
- F. SunRail/CFCRC Board (at *LYNX Central Station*) – September 26, 2024
- G. 2050 MTP Technical Workshop #5 (*Held Virtually*) – October 10, 2024
- H. **Transportation Systems, Management, & Operations (TSMO)** – October 25, 2024
- J. Technical Advisory Committee (TAC) – October 25, 2025
- K. Transportation Disadvantaged Local Coordinating Board & Public Meeting – November 14, 2024

XII. MEMBER COMMENTS

Mr. Eric Hill asked members around the table to share any notable projects & events happening in their jurisdiction.

Mr. Hill shared he is planning a field trip for members to visit the City of Altamonte Springs to tour their autonomous vehicle program, cranRIDES – date to be determined.

And finally, he noted - The Florida Automated Vehicle Summit is happening in Tampa on September 4th thru 6th.

XIII. PUBLIC COMMENTS (GENERAL)

None

XIV. ADJOURNMENT

Chair Sanders adjourned the meeting of the Transportation Systems Management & Operations Advisory Committee at 9:47 a.m. The meeting was recorded and transcribed by Ms. Rachel Frederick.

Approved this 25th day of October 2024

Mr. Brian Sanders, Chairman

Ms. Rachel Frederick,
Board Services Coordinator

As required by Section 286.0105, Florida Statutes, MetroPlan Orlando hereby notifies all interested parties that if a person decides to appeal any decision made by MetroPlan Orlando with respect to any matter considered at such meeting or hearing, he or she may need to ensure that a verbatim record is made to include the testimony and evidence upon which the appeal is to be based.