



Regional Transportation Technical Advisory Committee Modeling Subcommittee (RTTAC-MS) Meeting Agenda

September 18, 2023 – 10:00 AM to 12:00 PM EDT

Location:
Miami-Dade TPO

Remote Access:
[Click here to join the Microsoft Teams meeting online](#)
Voice: +1 (213)267-3760; Access Code: 862-413-863

- I. Introductions (5 minutes)**
- II. Approval of the June 26, 2023 Meeting Summary* (5 minutes)**
- III. Approval of the July 31, 2023 Meeting Summary* (5 minutes)**
- IV. SERPM 8.0: Model Update Status (15 minutes – Srin Varanasi, The Corradino Group)**
- V. SERPM 8.0: Quarterly Update* (15 minutes – Srin Varanasi, The Corradino Group)**
- VI. 2050 SE Data Development (15 minutes – Group)**
- VII. SERPM 9.0: Model Progress Update (15 minutes – Rosella Picado, WSP)**
- VIII. Member Comments (5 minutes)**
- IX. Next Meeting – October 30, 2023**
- X. Adjournment***



Regional Transportation Technical Advisory Committee (RTTAC) Modeling Subcommittee

June 26, 2023, Meeting Summary

The following summarizes the RTTAC Modeling Subcommittee (RTTAC-MS) Meeting held virtually and in person on June 26, 2023, at Broward MPO.

MEETING TIME AND LOCATION

From the voting members, Paul Flavien (Broward MPO), Raj Shanmugam (FDOT D4), Mary Tery Vilches (TPO), and Matthew Masa (TPA), participated in person at Broward MPO. Ana M. Calleja (FDOT D6) participated virtually through MS Teams.

MEETING ATTENDEES (Voting members are underlined)

1. Aditya Katragadda, Corradino Group, akatragsadda@corradino.com
2. Ana M. Calleja, FDOT D6, AnaM.Calleja@dot.state.fl.us
3. Behzad Karimi, WSP, behzad.karimi@wsp.com
4. Cesar Segovia, Florida's Turnpike Enterprise, Cesar.Segovia@dot.state.fl.us
5. Christine Springer, Jacobs, christine.springer@jacobs.com
6. Danyu Shi, BCC Engineering, dshi@bcceng.com
7. Fadi Emil Nassar, Palm Beach County
8. Franchesca R. Taylor, Miami-Dade TPO, e324034@miamidade.gov
9. Hui Zhao, CTS, HZhao@ctseinc.com
10. Jeanette Berk, Gannett Fleming, jberk@gfnet.com
11. Jill Quigley, Benesch, JQuigley@benesch.com
12. Like Liu, Kittelson & Associates, lliu@kittelson.com
13. Maria Tery Vilches, Miami-Dade TPO, e317278@miamidade.gov
14. Matthew Masa, Palm Beach TPA, MMasa@palmbeachtpa.org
15. Min-Tang Li, Broward County, mli@broward.org
16. Paul Flavien, Broward MPO, FlavienP@browardmpo.org
17. Raj Shanmugam, FDOT D4, Raj.Shanmugam@dot.state.fl.us
18. Rosella Picado, WSP, Rosella.Picado@wsp.com
19. Sheldon Harrison, Cambridge Systematics, sharrison@camsys.com
20. Shuo Wang, WSP, shuo.wang@wsp.com
21. Sijia Wang, WSP, Sijia.Wang@wsp.com
22. Srinivas Varanasi, Corradino Group, svaranasi@corradino.com
23. Sujith Rapolu, CTG, srapolu@ctgconsult.com
24. SungRyong Han, BCC Engineering, shan@bcceng.com
25. Tewari Edmonson, Miami-Dade DTPW, Tewari.Edmonson@miamidade.gov
26. Victoria Williams, Florida's Turnpike Enterprise, Victoria.Williams@dot.state.fl.us

MEETING NOTES

Below is a summary of items discussed during the meeting. Action items and motions are underlined.

I. Introductions (5 minutes)

Paul expressed the welcome and briefly went over the agenda. The RTTAC-MS voting members briefly introduced themselves.

II. Approval of the March 27, 2023 Meeting Summary* (5 minutes)

Raj motioned to approve the March 27, 2023 Meeting Summary; Mary Tery seconded. The motion was unanimously approved by the RTTAC-MS.

III. Approval of the April 24, 2023 Meeting Summary* (5 minutes)

Mary Tery motioned to approve the April 24, 2023 Meeting Summary; Matthew seconded. The motion was unanimously approved by the RTTAC-MS.

IV. Approval of the May 1, 2023 Meeting Summary* (5 minutes)

Matthew motioned to approve the May 1, 2023 Meeting Summary; Mary Tery seconded. The motion was unanimously approved by the RTTAC-MS.

V. SERPM 8.0: Model Update Status (15 minutes – Srin Varanasi, The Corradino Group)

Srin reported that the SEPRM 8.531 model is operational and functioning well. User feedback has been positive to date, with no significant problems reported. Future versions will incorporate updates related to land use.

VI. SERPM 8.0: Quarterly Update* (15 minutes – Srin Varanasi, The Corradino Group)

Srin mentioned they were trying to gather some land use and network updates which will be added to the next version (8.532). Raj motioned to adopt the SEPRM 8.531 model; Mary Tery seconded. The motion was unanimously approved by the RTTAC-MS.

VII. 2050 SE Data Development (15 minutes – Group)

Paul and Mary indicated that their respective MPOs have submitted the 2050 SE data to WSP, and they have yet to receive any feedback. Matthew noted that TPA is in the process of finalizing their data and anticipates having it prepared shortly.

VIII. SERPM 9.0: Model Progress Update (15 minutes – Rosella Picado, WSP)

Rosella reported that WSP has made updates to almost every component of the model. The team has established calibration targets for these components and conducted multiple rounds of model runs. Consequently, the model hasn't reached a stage where they feel it's ready for LRTPs. Rosella anticipates an additional four weeks to prepare the model for release. Rosella also mentioned she is coordinating with the RTTAC-MS members to schedule a training session in September. The training will be limited to

the agency and their LRTP and RTP teams.

IX. SERPM 9.0: PTV Visum Conversion Update (15 minutes – Sijia Wang, WSP)

Rosella noted that the team submitted the model to PTV Visum four weeks ago. However, PTV Visum won't commence the model conversion process until they receive the finalized, calibrated version.

X. SERPM 9.0: Sensitivity Testing and LRTP Scenarios (15 minutes – Rosella Picado, WSP)

Rosella reported that the team is in the process of determining the types of sensitivity tests to execute. Usually, a few tests are undertaken, including one focused on regional growth and another addressing transit by enhancing its frequency and operational costs. Additionally, the team is likely to carry out tests examining shifts in assumptions about the percentage of people who telecommute or work remotely.

XI. Member Comments (5 minutes)

XII. Next Meeting – July 31, 2023

The next meeting will be virtual on July 31, 2023.

XIII. Adjournment*

Paul adjourned the meeting at 11:05.



Regional Transportation Technical Advisory Committee (RTTAC) Modeling Subcommittee

July 31, 2023, Workshop Summary

The following summarizes the RTTAC Modeling Subcommittee (RTTAC-MS) Workshop held virtually through Microsoft Teams on July 31, 2023.

MEETING TIME AND LOCATION

The meeting was virtually through Microsoft Teams. The voting members, Paul Flavien (Broward MPO), Mary Tery Vilches (TPO), Matthew Masa (TPA), Raj Shanmugam (FDOT D4), and Ana M. Calleja (FDOT D6) participated.

MEETING ATTENDEES (Voting members are underlined)

1. Aditya Katragadda, Corradino Group, akatragsadda@corradino.com
2. Ana M. Calleja, FDOT D6, AnaM.Calleja@dot.state.fl.us
3. Behzad Karimi, WSP, behzad.karimi@wsp.com
4. Cesar Segovia, Florida's Turnpike Enterprise, Cesar.Segovia@dot.state.fl.us
5. Christine Springer, Jacobs, christine.springer@jacobs.com
6. Danyu Shi, BCC Engineering, dshi@bcceng.com
7. Fadi Emil Nassar, Palm Beach County
8. Matthew Masa, Palm Beach TPA, mmasa@palmbeachtpa.org
9. Hoyt Davis, Gannett Fleming, hdavis@GFNET.com
10. Hui Zhao, CTS, HZhao@ctseinc.com
11. Jeanette Berk, Gannett Fleming, jberk@gfnet.com
12. Jiangchuan Hu, Gannett Fleming, jhu@gfnet.com
13. Jill Quigley, Benesch, JQuigley@benesch.com
14. Ken Kaltenbach, Corradino Group, Kaltenbach@corradino.com
15. Like Liu, Kittelson & Associates, lliu@kittelson.com
16. Maria Tery Vilches, Miami-Dade TPO, e317278@miamidade.gov
17. Matthew Masa, Palm Beach TPA, MMasa@palmbeachtpa.org
18. Min-Tang Li, Broward County, mli@broward.org
19. Paul Flavien, Broward MPO, FlavienP@browardmpo.org
20. Raj Shanmugam, FDOT D4, Raj.Shanmugam@dot.state.fl.us
21. Rosella Picado, WSP, Rosella.Picado@wsp.com
22. Shuo Wang, WSP, shuo.wang@wsp.com
23. Sijia Wang, WSP, Sijia.Wang@wsp.com
24. Srinivas Varanasi, Corradino Group, svaranasi@corradino.com
25. Sujith Rapolu, CTG, srapolu@ctgconsult.com
26. SungRyong Han, BCC Engineering, shan@bcceng.com
27. Thomas Rossi, Cambridge Systematics, TROSSI@camsys.com
28. Victoria Williams, Florida's Turnpike Enterprise, Victoria.Williams@dot.state.fl.us
29. Yongqiang Wu, CTS, ywu@ctseinc.com
30. SungRyong Han, BCC Engineering, shan@bcceng.com

MEETING NOTES

Below is a summary of items discussed during the meeting. Action items and motions are underlined.

I. Introductions (5 minutes)

Paul expressed the welcome and briefly went over the agenda. The RTTAC-MS voting members briefly introduced themselves.

II. SERPM 8.0: Model Update Status (15 minutes – Srin Varanasi, The Corradino Group)

Srin reported that the official SERPM 8.531 model is operational and functioning well. User feedback has been positive to date, with no significant problems reported. The only request he's received was regarding PopulationSim user's guide that Srin mentioned it is inside the model folder. The next version (8.532) will incorporate updates related to land use.

III. 2050 SE Data Development (15 minutes – Group)

Paul updated that Broward MPO had supplied WSP with the 2050 dataset. In response, the WSP project team has performed some data checks and returned with queries. Broward MPO is currently considering potential modifications and refinements to their 2050 dataset.

Matthew noted that WSP had requested revisions concerning the data on households and children from TPA. The requested changes have been made, and additional checks have also been conducted on employment and population data.

Mary also conveyed that TPO has received comments from WSP on the 2050 SE data. The TPO team has addressed these comments and resubmitted the data.

IV. SERPM 9.0: Model Progress Update (30 minutes – Rosella Picado, WSP)

Rosella verified that 2050 SE data from all three counties has been received by the team. She mentioned that the synthetic population run, utilizing the SE data, is scheduled to commence by the end of the week.

Additionally, Rosella outlined the current state of highway validation for SERPM 9. She also discussed the strategy for making the model available to the LRTP team, which will include user training.

Regarding highway validation across the region, the modeled traffic volumes are somewhat lower than expected for all types of road facilities, with the exception of expressways. The team has looked into the root cause of this discrepancy and is trying to resolve it by improving network connectivity issues.

The team has been working on the SERPM9 CUBE catalog. WSP is testing it to make

sure the model runs from the start to the end successfully. It is expected that the catalog will be ready soon for the training in September. The initial model release, only available to LRTP and RTP teams, will won't fully meet the validation guidelines. The rationale for an early release is twofold: first, the model incorporates several new components (i.e. ActivitySim, PopulationSim, new networks) that users may need time to familiarize themselves with these new components. and second reason is that ActivitySim needs to be trained meaning the model for the first time needs to be run in the training mode which takes a long time. Once the model is trained it generates a file that subsequent runs use in production mode which takes much less time than in training mode. An interim version of the model is set to be released this week which only includes the 2019 scenario. Meanwhile, the team continues to focus on the ongoing validation process.

V. Member Comments (5 minutes)

VI. Next Meeting – September 25, 2023

The next meeting is going to be on September 18, 2023.

VII. Adjournment*

Paul adjourned the meeting at 10:57 AM.