



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

September 27, 2017 – 9:30 AM to 12:00 PM

Palm Beach Metropolitan Planning Organization (MPO)
Traffic ITS Conference Room 4th Floor Room: 4E-42
2300 N. Jog Rd.
West Palm Beach, FL 33411

Remote Access:

<https://global.gotomeeting.com/join/918633461>
Voice: +1 (646) 749-3122; Access Code: 918-633-461

- I. **Call to Order**
- II. **Introductions** (5 minutes)
- III. **Approval of the July 12, 2017 Meeting Summary*** (5 minutes)
- IV. **Regional Household Survey Progress Update** - John Lafferty / Rosella Picado / Josh DeLaRosa (30 minutes)
- V. **Regional Household Origin – Destination Update**– Rosella Picado (5 minutes)
- VI. **SERPM 8.0: Project / Input Data Status** – Jay Evans / Marty Milkovits / Hui Zhao (20 minutes)
- VII. **SERPM 8.0: 2015 Employment Data*** – Jay Evans / Marty Milkovits / Hui Zhao (10 minutes)
- VIII. **SERPM 8.0: Synthetic Population Data Process*** – Jay Evans / Marty Milkovits / Hui Zhao (10 minutes)
- IX. **SERPM 8.0: Model Estimation / Validation Plan** – Tom Rossi / Jay Evans / Hui Zhao (20 minutes)
- X. **Member Comments**
- XI. **Next Meeting**
- XII. **Adjournment***

*Action Item



**Regional Transportation Technical
Advisory Committee (RTTAC)
Modeling Subcommittee**

July 12, 2017 Meeting Summary

The following is a summary of the RTTAC Modeling Subcommittee (RTTAC MS) meeting held on July 12, 2017.

MEETING TIME AND LOCATION

9:30 AM to 12:00 PM

Broward Metropolitan Planning Organization Board Room

Trade Centre South

100 West Cypress Creek Road, Suite 850

Fort Lauderdale, FL 33309

MEETING ATTENDEES

1. Anders Hansen, Abt Associates, Anders_Hansen@abtassoc.com
2. Andrew Velasquez, AECOM, andrew.velasquez@dot.state.fl.us
3. Ashutosh Kumar, CTG, AKumar@ctgconsult.com
4. Brent Selby, Cambridge Systematics, bselby@camsys.com
5. Buffy Sanders, Broward MPO, sandersb@browardmpo.org
6. Hoyt Davis, Gannett Fleming, hdavis@gfnet.com
7. Hui Zhao, FDOT D4, Hui.Zhao@dot.state.fl.us
8. Jay Evans, Cambridge Systematics, JEvans@camsys.com
9. John Lafferty, WSP, John.Lafferty@WSP.com
10. Josh DeLaRosa, Abt Associates, josh_delarosa@abtassoc.com
11. Krishnan Viswanathan, Cambridge Systematics, kviswanathan@camsys.com
12. Martin Milkovits, Cambridge Systematics, MMilkovits@camsys.com
13. Mike Brown, TPS, TPS.Mike.Brown@comcast.net
14. Neil Lyn, FDOT D6, Neil.Lyn@dot.state.fl.us
15. Paul Flavien, Broward MPO, FlavienP@browardmpo.org
16. Shi-Chiang Li, FDOT D4, Shi-Chiang.li@dot.state.fl.us
17. Srinivas Varanasi, Corradino Group, svaranasi@corradino.com
18. Trang Phan, FDOT D4, trang.phan@dot.state.fl.us
19. Vivek Kumar, Corradino Group, vkumar@corradino.com
20. Wilson Fernandez, Miami-Dade TPO, wilson.fernandez@mdtpo.org
21. Yingfei Huang, Cambridge Systematics, yhuang@camsys.com
22. Yongqiang, Wu, CTS, Ywu@ctseinc.com

MEETING NOTES

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

I. Call to Order

Neil called to the meeting to order at 9:45 AM.

II. Introductions

III. Approval of the May 10, 2017 Meeting Minutes

Neil made a motion for approval of the meeting minutes. The motion was seconded by Paul and was unanimously approved by the RTTAC MS.

IV. Regional Household Survey Progress Update - John Lafferty / Josh DeLaRosa / Brent Selby (30 minutes)

Brent, John, and Josh gave updates of the QA/QC process for the Regional Household Survey results. There were 2,096 households that participated in the survey, with 847 households from Phase 1 (fall 2016) and 1,249 from Phase 2 (spring 2017). The outreach effort to incomplete respondents in spring 2017 was effective in generating a higher response rate in Phase 2. Survey responses were distributed across the region, with 26% in Palm Beach County, 37% in Broward County, and 37% in Broward County. Small households and higher income households had higher response rates, relative to the regional distribution. Survey responses included transit trips, bicycle usage, and zero-vehicle households. The final delivered survey data will be weighted to be representative of regional travel.

Wilson suggested comparing the demographics of respondents with the overall demographics in the study region to see if the survey data represents the demographic distributions in the region. Josh responded that they will include this type of analysis in the report.

During the QA/QC review of the survey data, 74% of the household records passed all quality checks on the first pass through. Common issues for the other records included missing information (e.g., work status, address), illogical or incorrect data (e.g., leave/arrive out of order, 8-year-old workers), and processing/entry issues. Data cleaning was performed to arrive at the final raw survey dataset. Observed trip rates are lower than expectations based on other references (4-5 in the household survey versus 8-10). Response bias was not found over different group of county/region, income, or age of head households.

Jay commented that although model development will need to incorporate other data sources in addition to the household survey data, due in part to the overall response, it is fortunate that the survey captured responses across the targeted segments (e.g., transit users, zero-car households, large households). This can be helpful for conducting statistically valid analysis of travel behavior differences for these segments (at least at the county level).

Wilson complimented the public outreach effort that resulted in increased survey response rate in Phase 2.

The team will continue working on the QA/QC of the survey data, including conducting an assessment of single-day data, confirming acceptance criteria, and manual cleaning to make sure there are as many qualified results as possible. The QA/QC work is expected to be completed by July. A draft report will be provide by the end of August for review. The final report will be prepared for the sub committee meeting in late September.

V. 2040 SERPM 7.0 Cost Feasible Network Update (Florida’s Turnpike Projects) – Srinivas Varasani / Hui Zhao (20 minutes)

Srin presented the latest updates from LRTP and other Turnpike studies and asked for approval to code the relevant changes in the 2040 SERPM 7.0 Cost Feasible Network. Changes include additional GP toll lane capacity improvement coded on Turnpike Mainline, Turnpike ML amendments, and interchange configuration.

Andrew pointed out that there is a new interchange at 8th street on Sawgrass Expressway and will coordinate with Srin to make sure the team has the latest information.

Given that the SERPM network updates are released quarterly and there are other on-going studies that would impact the network, Wilson suggested that an update to be made in July to incorporate the current changes, and future results/corrections from the on-going corridor studies to be addressed in the next network update.

Wilson motioned to update the 2040 SERPM 7.0 Cost Feasible Network, Paul seconded.

VI. SERPM 8.0: Project / Input Data Status – Jay Evans / Marty Milkovits / Hui Zhao (20 minutes)

Jay and Marty provided updates on the SERPM8 model project and the input data status. The project team is currently finishing up the development of zonal data, highway and transit networks, and traffic and transit data, and are waiting for the survey weighting results. The project team will continue to complete 2015 input data assembling, assessing, and preparing travel behavior data, estimation/calibration of the activity based model, and preparing TWO 6 model development. The timeframe for these work items is estimated to be late August to early September. The targeted schedule for model delivery and training was adjusted from July 2018 to August 2018 in response to the household survey delay.

Zonal data summary and trend check notes have been sent to T/MPOs for review, including person SED data , household SED data, employment data, school enrollment data, school districts, parking data, and hotel data. Wilson and Paul responded that they will review and coordinate with Marty if there is any issue.

There was a discussion about the need to group school enrollment data into public/private school for model segmentation. Marty explained that public school students are constrained to their specific district, while private/charter school students

do not have that constraint and may be more sensitive to distance when choosing their schools. Segmenting students by school type may improve the model accuracy. Wilson questioned the need for this segmentation and asked if the travel patterns of public versus charter/private school students is significantly different. Marty responded that the team will check the data and distribution to see if segmentations are necessary for model accuracy..

Synthesized 2015 employment data has been provided by FDOT Central Office. The synthesized employment data was developed using 2014 infoUSA data, growth rates, and total employment growth in the County. Wilson asked the team to provide a crosswalk of the data synthesizing process. Miami-Dade TPO has access to the actual 2015 InfoUSA data and will compare it to the synthesized employment data. Marty will provide a crosswalk table for review.

Neil added that the Miami Dade TPO is finalizing the review of traffic count data, and will share comments with Marty

VII. SERPM 8.0: Transit Inclusion Criteria and Validation Summaries – Ashu Kumar / Jay Evans / Hui Zhao (10 minutes)

Following up with a discussion in the previous meeting, Ashu shared a list of transit inclusion criteria for selecting transit service to be included in the 2015 base network and in the future year network. All transit routes operated by the three county transit agencies (PalmTran, BCT, and MDT) will be included. Local community transit routes will be included if they have more than 1,000 weekday riders. There was a discussion about the threshold of 1,000 weekday riders. Wilson was concerned that this threshold is arbitrary and suggested the team to choose a criteria with rational basis, such as industry standards, measures used in the TDPs, or midpoint/quantile of average weekday ridership in the region. Ashu will revise the criteria based on the suggestions.

Ashu provided a brief update of the work on transit on-board surveys. Nine surveys were processed, analyze, and used to develop model calibration targets. Neil asked how the transfer rate compared to that in the previous model. Ashu responded that the transfer rate is similar to that in the previous model. Ashu will send out slides with details about boarding, linked trips, transfer rate, access split rate, TOD split, zero-car households, and work status.

VIII. SERPM 8.0: Model Estimation / Validation Plan – Jay Evans / Marty Milkovits / Hui Zhao (20 minutes)

Due to time constraints, this item was tabled until the next SERPM8 project status meeting.

IX. MLOU for Joint Funding Regional Projects – Neil Lyn (15 minutes)

The current MLOU for Joint Funding Regional Projects will expire after 2019. Hui suggested T/MPOs and all partners review the current MLOU and propose potential changes needed for the next MLOU. A detailed funding document/table is requested by FDOT work program staff. This topic will be reviewed at a future RTTAC-MS meeting.

X. Member Comments

No comments.

XI. Next Meeting

September 27, 2017, 9:30 AM
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XII. Adjournment

Neil adjourned the meeting at 12:28 PM