Regional Transportation Technical Advisory Committee (RTTAC) Modeling Subcommittee

Meeting Agenda

July 12, 2017 – 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

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 May 10, 2017 Meeting Summary*** (5 minutes)

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

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

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

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

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

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

X.   **Member Comments**

XI.   **Next Meeting**

XII.   **Adjournment***

*Action Item

Regional Transportation Technical Advisory Committee (RTTAC) Modeling Subcommittee

May 10, 2017 Meeting Summary

The following is a summary of the RTTAC Modeling Subcommittee (RTTAC MS) meeting held on May 10, 2017.

MEETING TIME AND LOCATION

9:30 AM to 12:00 PM
Miami-Dade TPO,
9th Floor Conference Room- Suite 920,
111 NW 1st Street,
Miami, FL 33128

MEETING ATTENDEES

1. Aditya Katragadda, Corradino Group, akatragadda@corradino.com
2. Anders Hansen, Abt Associates, Anders_Hansen@abtassoc.com
3. Andrew Velasquez, AECOM, andrew.velasquez@dot.state.fl.us
4. Ashutosh Kumar, CTG, AKumar@ctgconsult.com
5. Buffy Sanders, Broward MPO, sandersb@browardmpo.org
6. Carlos Cejas, Gannett Fleming, ccejas@gfnet.com
7. David Schmitt, CTG, dschmitt@ctgconsult.com
8. Hoyt Davis, Gannett Fleming, hdavis@gfnet.com.
9. Hui Zhao, FDOT D4, Hui.Zhao@dot.state.fl.us
10. Jay Evans, Cambridge Systematics, JEevans@camsys.com
11. Jeannine Gaslonde, Miami-Dade TPO, jeannine.gaslonde@dot.state.fl.us.
12. Josh DeLaRosa, Abt Associates, josh_delarosa@abtassoc.com
13. Mary Tery Vilches, Miami-Dade TPO, Mvilches@miamidadempo.org
14. Martin Milkovits, Cambridge Systematics, MMilkovits@camsys.com
15. Neil Lyn, FDOT D6, Neil.Lyn@dot.state.fl.us
16. Paul Flavien, Broward MPO, Flavien@browardmpo.org
17. Rosella Picado, Parsons Brinckerhoff, Picado@pbworld.com
18. Shi-Chiang Li, FDOT D4, Shi-Chiang.li@dot.state.fl.us
19. Srinivas Varanasi, Corradino Group, svaranasi@corradino.com
20. Tim Verbeke, Palm Beach MPO, tverbeke@palmbeachmpo.org
21. Trang Phan, FDOT D4, trang.phan@dot.state.fl.us
22. Wilson Fernandez, Miami-Dade TPO, WFernandez@miamidadempo.org
23. Yingfei Huang, Cambridge Systematics, yhuang@camsys.com

MEETING NOTES

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

I.   Call to Order

Neil called to the meeting to order at 9: 33 AM.

II.   Introductions

III.   Approval of the April 12, 2017 Meeting Minutes

<u>Paul made a motion for approval of the meeting minutes. The motion was seconded by</u> <u>Wilson and was unanimously approved by the RTTAC MS.</u>

IV.   Phase 2: Regional Household Survey Progress Update - John Lafferty / Josh DeLaRosa (20 minutes)

John Lafferty and Josh DeLaRosa provided a progress update of the Regional Household Survey. There were 820 survey completions in Phase 1. There are 1015 survey completions in Phase 2 so far and up to 200 additional surveys may be completed in the next two weeks. The overall response rate is about 2%.

Wilson concluded that the response rate in Phase 2 is better than the original expectations. Wilson commented that about one-quarter of the respondents started the survey but did not finished it. Getting them to complete the survey would increase the response rate for Phase 2.

<u>John and Josh explained that the team will reach out to respondents who did not</u> <u>complete the survey by phone or email reminders and ask them to continue the survey.</u> <u>The team will collect feedback on why respondents did not complete the survey.</u>

Paul inquired about the percentage of respondents who were assigned a GPS locator. John responded that it is about 30 to 40 percent. Josh added that respondents who received a GPS locator had a higher survey completion rate.

The merits of giving consideration to lowering the standard for considering a household survey complete were discussed. Specifically, it is proposed that surveys be counted as completed in which data collection was completed for one day of travel, but not for two days of travel. This could increase the survey results by about 1,000 household records. <u>This will be reviewed over the next few weeks.</u>

V.   Regional Household Origin – Destination Update– Rosella Picado (10 minutes)

Rosella gave updates about the Regional Household Origin – Destination analysis. The team is close to completing the 2016 data analysis. Cambridge Systematics will perform QA/QC task on the commercial vehicle data before it is ready for distribution. There is a 3% difference between the 2016 OD trips and AADT. The team will do a second check to see if there is a need to adjust the methodology. Rosella thanked the RTTAC-MS members for sending their feedback on the report and will update the report according

to the comments received. The appendix will include details of data analysis and distribution. The revised report and appendix will be ready for review in the next two weeks.

Wilson suggested that the partners discuss the appropriate way to distribute the report and data and that an internal review should be conducted prior to making the report available to FSUTMS. Neil and Hui agreed.

Rosella will post the report and all related data on the PB site. RTTAC-MS members will review and provide comments prior to the next RTTAC-MS meeting.

VI. **2040 SERPM 7.0 LRTP Network Update (FDOT Transit Corridor Studies) – Srinivas Varasani (20 minutes)**

Srin presented the work to update the 2040 SERPM 7.0 LRTP Network based on the FDOT Transit Corridor Studies. Updates have been made to the highway and transit networks within a 2-mile radius to three transit corridors to reflect the latest road alignment, number of lanes, posted speeds, facility types, transit route alignments, and headways. Trolley routes were added. Connections recommended by the 2040 LRTP Cost Feasible plan were also added, including new SR 836 Enhance bus service, new Park and Ride facilities, connecting ramps, and Express lane.

Transit headways in SERPM 7.0 are calculated by averaging headways in the AM/PM periods. Overestimation of headways could occur in some routes which only have service in a short period of time in the 4-hour PM peak period (peak of the peak). Updates were made to reflect the actual service. All changes were recorded in a log and shown in the slides.

There was a discussion initiated by Wilson about changing the transit headway calculations for the PM peak period, which is 1 hour longer than the AM peak period. The concern was whether a different method for calculating headways was being used as compared with how the SERPM 7 model was calibrated. Jay discussed the possible risk of unintended consequences being introduced by selectively making changes in input methodologies.

Srin responded that while they did not consider the changes to be a concern, they would discuss the comments with the project team and report back to the RTTAC-MS as appropriate.

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

Jay gave an overview of the current project progress and showed that we are on schedule to finish the project and have a training in the summer of 2018, but emphasized that the schedule is conditional on the household survey data being available by July 2017.

Marty provided an update of input data status.

Employment data is being reviewed by Central Office. After the review, the team will convert the data from census block level to MAZ level, and send to M/TPO for review.

School enrollment data has been received.

M/TPOs will be providing parking data updates.

Shopping malls data is needed. Wilson inquired about the definition and usage of shopping malls in the SERPM models. Shi-Chang Li explained that shopping malls were used as special generators in previous models. FDOT has a list of shopping mall locations, but the data is usually not applied until calibration. Marty responded that CS will come back with an appropriate definition for shopping malls and the best way to apply it to the model.

The potential for cruise ship ports to be a special generator was discussed. Most activities occur on the weekends, making them less of a concern for average weekday traffic projections. Tim will look into the cruise activities in Palm Beach County. Neil suggested that studies done by Port Miami also provide related information.

Marty highlighted two disjointed zones in Miami-Dade county, but explained that they will not impact model operations. Wilson concluded that they should be fixed and asked that CS provide recommendations on how to resolve the disjointed zones and re-associate MAZs with adjacent TAZs.

VIII. **SERPM 8.0: Super District Definitions* – Jay Evans / Marty Milkovits / Hui Zhao (10 minutes)**

Marty presented the super districts that were defined based on M/TPO's input. Super districts in Palm Beach County are based on five traffic analysis districts. The CBD district in Broward County was expanded to include the FLL airport and Port Everglade. The CBD district in Miami-Dade County was extended to include South Beach. Marty requested a motion to approval the super district definitions for model reporting. Neil made a motion to approve the super districts. The motion was second by Tim and was unanimously approved by the RTTAC-MS.

There was a discussion about the use and definition of CBD indicators in the model. CBD indicators have been carried forward from previous models. Although it is not used in the SERPM 7 model, it could prove helpful during model calibration to have an indicator in the SERPM 8 model.

Jay suggested that it may be most important to consider CBD indications within counties rather than establishing a single definition across the entire region given the different densities present in each county. Wilson mentioned that there are several major traffic generators in the region which have low population density but high employment density, such as Boca Raton, Doral, and Sunrise. As such, employment density should be considered as a factor to define a CBD.

CS will review methods and approaches to redefine the CBD indicator, and present in the status meeting for review.

IX. **SERPM 8.0: Highway Network / Traffic Count Data Updates – Jay Evans / Hoyt Davis / Hui Zhao (20 minutes)**

Hoyt presented the work of highway network and traffic count data updates. Traffic count data was validated by comparing with historical trends between 2011 and 2016. Count outliers were identified in the trend analysis if the difference between count and trend is greater than 10%. Spatial analysis was performed to remove duplicate count locations. TOD travel patterns were applied to estimate directional and time of day traffic data for each count site. Final adjusted AADT and TOD (time of day) volumes will be joined to the model network.

Neil asked if seasonal adjustment was conducted. Hoyt responded that seasonal factors were not considered.

Neil will check if there are more count sites in Miami-Dade County. Hoyt will send the report and data for review. Hoyt will also include count data from Turnpike Toll Plaza.

X. **Member Comments**

XI. **Next Meeting – July 12th, Broward MPO**

XII. **Adjournment**

Neil adjourned the meeting at 12:00PM