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

July 18, 2018 – 9:30 AM to 12:00 PM

Palm Beach Transportation Planning Agency
2300 N. Jog Rd., Room VC-4E-12 (Okeeheelee Room)
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** (10 minutes)

III. **Approval of the May 16, 2018 Meeting Summary*** (5 minutes)

IV. **SERPM 8.0: Model Update Progress** (70 minutes)

    a. Status Overview (Jay Evans)

    b. Confirm Base Year Networks and SE Data Completed (Marty Milkovits)

    c. Validation Update (Marty)

    d. Other Implementation Notes and Next Steps (Marty)

V. **Regional and Local Long Range Plans Status and Methods Discussion** (50 minutes)

    a. Future Year SE Data Progress Notes (Group)

    b. TPA, MPO, TPO and Regional LRTP Status Reports (Group)

VI. **Member Comments** (15 minutes)

VII. **Next Meeting – August 15, 2018 1:00 PM – 3:30 PM (FDOT D6)**

VIII. **Adjournment***

*Action Item

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

May 16, 2018 Meeting Summary

The following is a summary of the RTTAC Modeling Subcommittee (RTTAC-MS) meeting held on May 16, 2018.

MEETING TIME AND LOCATION

9:30 PM to 12:00 PM
Broward Metropolitan Planning Organization
Trade Centre South
100 West Cypress Creek Road, 6th Floor
Fort Lauderdale, FL

MEETING ATTENDEES

1. Andrew Velasquez, AECOM, andrew.velasquez@dot.state.fl.us
2. Ashutosh Kumar, CTG, AKumar@ctgconsult.com
3. Behzad Kavimi, WSP-Miami, behzad.kavimi@wsp.com
4. Hoyt Davis, Gannett Fleming, hdavis@gfnet.com
5. Hui Zhao, FDOT D4, Hui.Zhao@dot.state.fl.us
6. Jay Evans, Cambridge Systematics, JEvans@camsys.com
7. Martin Milkovits, Cambridge Systematics, MMilkovits@camsys.com
8. Neil Lyn, FDOT D6, Neil.Lyn@dot.state.fl.us
9. Paul Flavien, Broward MPO, FlavienP@browardmpo.org
10. Scott Seeburger, FDOT, Scott.Seeburger@dot.state.fl.us
11. Wilson Fernandez, Miami-Dade TPO, wilson.fernandez@mdtpo.org
12. Yongqiang Wu, CTS, ywu@ctseinc.com
13. Yingfei Huang, Cambridge Systematics, yhuang@camsys.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 the meeting to order at 9:44 AM.

II. **Introductions** (5 minutes)

III. Approval of the March 14, 2018 Meeting Summary* (5 minutes)

Paul motioned to adopt the March 14, 2018 Meeting Summary, Wilson seconded. The motion was unanimously approved by the RTTAC-MS.

IV. SERPM 8.0: Model Update Progress (50 minutes)

a. Status Overview (Jay Evans)

It was reported by Marty that Cambridge Systematics (CS) is currently working on model validation. It is on schedule for completion in September, allowing the delivery workshop to be scheduled in October.

b. Confirm Base Year Networks and SE Data Completed (Marty Milkovits)

Marty reported that CS has reviewed data from the three counties. Revisions will be applied in a periodic batch fashion to maintain the project team's main focus on implementation and validation.

Andrew mentioned that the 2015 traffic counts in some locations in the regional network are lower than those in 2010. Hoyt responded that the project team is investigating the issue. Marty explained that initial analysis indicates that it is not a systematic issue and it will be addressed by the next RTTAC-MS meeting.

The project team is also working on the Cube Catalog development with the next steps being: integrating transit and new model components, TNC management, data clean-up and testing. The remaining ABM functionality work to be completed is to restrict the auto-egress transit access point (TAP)s to Tri-Rail and MetroRail stations. The legacy reports (HEVAL) are maintained in SERPM8, but new reports are being developed using R statistical software. A draft catalog will be available for feedback by the end of May.

c. Validation Update (Marty)

The first step in the validation process, which is currently underway, is to compare SERPM8 outputs with 2015 inputs against SERPM7 outputs with 2015 inputs. This comparison is being used as a diagnostic. Using the SERPM7 output for comparison helps to identify bugs in the SERPM8 implementation.

The next step in the validation will be to compare to observed data such as American Community Survey and the Regional Travel Survey. The project team will conduct detailed validation/calibration as necessary at the component level. To support the system-level summaries, the project team will update / confirm screenline location with RTTAC-MS members.

Wilson asked what steps could be completed by July. Marty replied that the project team will be close to completing the system-level validation.

Wilson asked if the population synthesizer has been updated. Hui responded that he is working with a consultant team to make improvements to the population synthesizer. The updated synthesizer has been sent to the SERPM8 project team for testing. Wilson

suggested performing a reality check on the output of the population synthesizer at the TAD level.

      d.   Other Implementation Notes (Marty)

Marty presented the results of the SERPM8 model calibration diagnostic run. In general the results from SERPM8 2015 are similar to those with SERPM7 2015 but there are some areas requiring further investigation such as the transit mode choice and tour/trip lengths.

V.   Regional and Local Long Range Plan Status and Methods Discussion (50 minutes)

      a.   Transit Propensity Discussion for Upcoming LRTP (Paul Flavien)

Paul asked the RTTAC-MC members if the transit propensity analysis conducted as part of the regional LRTP development should be reviewed by the RTTAC-MS. Wilson suggested that the RTTAC-MS be engaged to review analyses pertaining to regional LRTP development.

Wilson motioned to have the 2045 LRTP development team provide updates to the RTTAC-MS, Paul seconded. The motion was unanimously approved by the RTTAC-MS.

      b.   TPA, MPO, TPO LRTP Status Reports (Group)

Paul reported that the Broward MPO had several meetings with stakeholders to gather their needs. Wilson reported that the Miami-Dade TPO had several committee meetings and have gathered plans and performance measures from various agencies.

      c.   Future Year SE Data Progress Notes (Group)

Paul reported that the Broward County MPO has completed 95% of the 2045 SE data development effort, and it is on schedule to deliver the 2045 SE data by the end of May.

Wilson reported that the 2045 SE data development in Miami-Dade TPO is 90% complete. Wilson presented the results of the SE forecast to the RTTAC-MS. The TPO is on schedule to complete the 2045 SE data by the end of May. A final report will be provided by the end of June.

VI.   Develop a Regional Transit Data Collection Plan (Scott Seeburger) (20 minutes)

Scott presented a draft plan for transit data collection in South Florida. The plan, which is incorporated as an attachment to these meeting notes, outlined objectives, needs, and potential strategies to develop a transit data collection plan to assist FDOT and other agencies in understanding their transit data needs over he next 5-7 years. The RTTAC-MS reviewed the desired plan and provided the following suggestions:

- The data collection plan should specify a timeline (5 years or 7 years) of re-occurrence for the data collection effort. The timeline should be related to the updates of UPWP and TAP/MPO/TPO's comprehensive plan (Neil).

- In addition to transit data, Streetlight data or other big data OD data should be added to the plan (Wilson).

- The data collection plan can be expanded to a more comprehensive package to support a broader transportation planning purpose (Paul).

Scott will work on revising the data collection plan based on the comments received.

VII.   Member Comments (15 minutes)

Hui asked the RTTAC-MS if there is a need for FDOT District 4 to set aside FY 2019 work program funding for the data preparation effort. RTTAC-MS responded that there is no need for funding in FY 2019; it will be needed for FY 2020.

VIII.   Next Meeting

July 18, 2018 9:30 AM – 12:00 PM (Palm Beach MPO)

IV.   Adjournment*

Neil adjourned the meeting at 11:29 AM.

Transit Data Collection for South Florida (Desired Plan)

The data collection plan to be developed will cover the following:

1. Purpose of developing a data collection plan
    a. To assist FDOT and other agencies in understanding their data needs over the next 5-7 years, desired sampling method/plan/instrument and estimated surveying cost for the purposes of developing their work programs/plans
2. Need for transit data
    a. Primary – Assist in region's travel demand model development activities
    b. Secondary – Support TDP/COA, agencies transit planning activities – systemwide / corridor studies
3. Identify existing transit services and current transit data availability
    a. Types of typical transit data (boarding/APCs, AVLs, boarding-to-alighting, on-board surveys)
    b. Sample rates
    c. Collection year
4. Understanding future transit data needs for the region
    a. Identify deficiencies in the available data resources
    b. Coordinate with various agencies to understand their future data needs
    c. Expected major service additions to the system and expected opening year
        i. Wave (new mode)
        ii. Tri-Rail to downtown
        iii. Brightline (new mode)
        iv. 75Express and 95Express services
5. Develop desired implementation plan strategies
    a. Develop a desired data collection strategy of existing services (depending on current data availability) and expected future services (at least one year after opening of the service) – combine it with expected SERPM 9 schedule. The data collection plan will likely cover what data needs for the region over the next 5-7 years
    b. Provide consistent survey plan/method for all agencies/systems/modes (with minor variations as desired/needed by the agency)
    c. Provide consistent surveying instrument that covers all agencies/systems/modes (with minor variations as desired/needed by the agency/systems/modes)
    d. Provide recent sample scope of work / RFPs from around the country
    e. Develop survey sampling plans for all agencies/systems/modes
    f. Develop estimated data collection cost range based on
        i. Desired accuracy levels (3 scenarios – for e.g. systemwide survey cost for 90% CL and 10% CI, systemwide survey cost for 80% CL and 20% CI, or higher CL on select corridors and lower on others)
        ii. Fixed cost (for e.g. what sample rate can be expected for a fixed data collection fee of $200K, vs. what can $500K fee provide)