Regional Transportation Technical Advisory Committee
MODELING SUBCOMMITTEE
Friday, June 1, 2012
1:30 pm to 4:30 pm
FDOT District 4 Auditorium
3400 West Commercial Boulevard
Fort Lauderdale, FL 33309

Agenda

I.   **1:30 - 1:35   Call to Order and Introductions/Overview**
                     Wilson Fernandez, Miami-Dade MPO

II.   **1:35 - 2:50   FEC Risk Analysis, Alternative Land Use Scenarios**
                      Scott Seeburger, FDOT-District 4

III.   **2:50 – 3:00   Break**

IV.   **3:00 – 3:45   Origin-Destination Data Capture**
                       Paul Flavien, Broward County MPO
                       Rob Schiffer, Cambridge Systematics

V.   **3:45 - 4:15   Model Application Guidance**
                      Wilson Fernandez, Miami-Dade MPO
                      Shi-Chiang Li, FDOT-District 4

VI.   **4:15 - 4:30   Future Meeting Schedule & Other Topics to Address**
                       Wilson Fernandez, Miami-Dade MPO

VII.   **4:30pm   Adjournment**

Note: The meeting will take place after the morning Southeast Florida FSUTMS User Group meeting.

March 29, 2012 Meeting Minutes

Regional Transportation Technical Advisory Committee (RTTAC)

Modeling Subcommittee

Date:	March 29, 2012	Project #: 8055.003
To:	Wilson Fernandez, RTTAC Modeling Subcommittee Chair	
From:	Rob Schiffer, Cambridge Systematics, Inc. Jessica Josselyn, Kittelson & Associates, Inc.	

The following is a summary of the RTTAC Modeling Subcommittee meeting held on March 29, 2012. Meeting presentations should be provided separately via email and ftp.

MEETING TIME AND LOCATION

Thursday, March 29, 2012 – 1:30 PM to 4:30 PM
South Florida Regional Transportation Authority Boardroom
800 NW 33rd Street, Suite 100, Conference Room
Pompano Beach, FL 33064

MEETING ATTENDEES Present and Via Phone *(alphabetical order by agency/firm)*

1. David Schmitt, AECOM, david.schmitt@aecom.com
2. Ashutosh Kumar, AECOM, ashutosh.kumar@aecom.com
3. Bill King, AirSage, bking@airsage.com
4. Cy Smith, AirSage, csmith@airsage.com
5. Jonathan Roberson, Broward County Transit, jroberson@broward.org
6. Paul Flavien, Broward MPO, pflavien@browardmpo.org
7. Buffy Sanders, Broward MPO, sandersb@browardmpo.org
8. Peter Haliburton, phaliburton@camsys.com
9. Rob Schiffer, Cambridge Systematics, Inc., rschiffer@camsys.com
10. Quan Yuan, Cambridge Systematics, Inc., qyuan@camsys.com
11. Jason King, Dover-Kohl Associates, jking@doverkohl.com
12. Joseph Kohl, Dover-Kohl Associates, jkohl@doverkohl.com
13. Steve Braun, FDOT D4, steve.braun@dot.state.fl.us
14. Shi-Chang Li, FDOT D4, shi-chiang.li@dot.state.fl.us
15. Gus Schmidt, FDOT D4, gus.schmidt@dot.state.fl.us
16. Neil Lyn, FDOT D6, neil.lyn@dot.state.fl.us
17. Andrew Velasquez, FDOT/Turnpike D6, andrew.velasquez@dot.state.fl.us
18. Joshua Salazar, HDR, Inc. joshua.salazar@hdrinc.com
19. Santanu Roy, HDR, Inc. santanu.roy@hdrinc.com
20. Thuha Nguyen, Kittelson Associates, Inc., ?@kittelson.com

21. Rohit Rai, Kittelson Associates, Inc., rrai@kittelson.com
22. Gavin Jones, Martin County MPO, gjones@martin.fl.us
23. Wilson Fernandez, Miami-Dade MPO, Wilson@miamidade.gov
24. Larry Foutz, Miami-Dade MPO, lfoutz@miamidade.gov *(via phone)*
25. Nellie Fernandez, Palm Beach MPO, nfernand@pbcgov.org
26. Paul Larsen, Palm Beach MPO, plarsen@pbcgov.org
27. Vinod Sandanasomy, Palm Beach MPO, vsandanasomy@pbcgov.org
28. Arlene Davis, Port Everglades, ardavis@broward.org
29. Bob Burchell, Rutgers University, burchell@rci.rutgers.edu
30. Neelam Fatima, St. Lucie MPO, FatimaN@stlucieco.gov
31. Richard Ogburn, South Florida RPC, rogburn@sfrpc.com
32. Joe Quinty, South Florida RTA, quintyj@sfrta.fl.gov
33. Richard Ogburn, South Florida RPC, rogburn@sfrpc.com
34. Marcela Camblor, Treasure Coast RPC, marcela@tcrpc.org
35. Todd Brauer, Whitehouse Group, tbrauer@wgianalytics.com

MEETING NOTES

Below is a summary of the key points discussed at the meeting. The comments have been organized by agenda topic. *Today's RTTAC-MS meeting included guests/team members from the Southeast Florida Regional Vision and Blueprint for Economic Prosperity Study, who were present for items I and II only. Guests from MPOs to the north were also present to hear presentations on Items II and III of the RTTAC-MS meeting. This RTTAC-MS meeting was preceded by a regional coordination meeting for alternative socioeconomic data development. Minutes for this meeting will be provided under separate attachment.*

I.   Call to Order and Approval of Minutes
Wilson Fernandez called the meeting to order. The subcommittee unanimously approved meeting minutes from the previous meeting in December 2011.

II.   Status Report on SERPM 6.7 *(item moved up on the agenda, was to be Item IV)*
Shi-Chiang Li informed the group that the SERPM 6.7 model was presented to the FTA in October 2011 and to the Southeast Florida Model Users Group in February 2012. He remarked that the model more completely addresses the needs of modeling transit. AECOM has used the model for several projects including FEC, Oakland Park, and SR 7. It is anticipated that the transit component of SERPM 6.7 will be fully absorbed into SERPM 7.0. Wilson asked if SERPM 6.7 will be available for others to use. Shi-Chiang Li said that it is available now and anyone can request it via email.

III.   SE FL Regional Vision and Blueprint Travel Modeling
The HUD Livability team, led by Dover-Kohl, gave an overview presentation on their project goals, schedule, and team composition.

- Joseph Kohl stated that the nature of this project is such that one not only needs to focus on transportation but also other issues such as environment, economic activity, etc. The task of the team is to explain what the future will be if development continues to follow the present trend.
- Marcela Camblor said that it will be hard to get all the counties to agree on everything. The team does not want to repeat the work that has already been done and wants the group to agree on an appropriate methodology. Larry Foutz suggested that today's presentation should focus on information that the regional visioning modeling team would need from the RTTAC-MS.
- Santanu Roy subsequently presented the modeling approach of the study team. He said that each of the three models available today have some limitations. Available regional models do not cover the seven county area. The Statewide model, while covering the entire region, is not the best tool for this study as it only captures simulates auto and truck travel, focused on long trips.
- While waiting for Rob Schiffer to arrive due to flight problems, Peter Haliburton gave Rob's presentation on the use of model stitching as a lower cost and more expedient approach to developing model forecasts for the HUD livability study. Other options were also presented, along with their pros and cons.
- This presentation led to a discussion on outputs needed from the transportation model. Santanu Roy said that they have not yet finalized the outputs but they know that they will at least be looking at the standard outputs like volume-to-capacity (v/c) ratios, VMT, delay, etc.
- Wilson Fernandez then asked Neil Lyn if he had anything to say on the modeling exercise from the perspective of FDOT D6. Neil described Monroe County as largely anti-growth with only one major road in the area – US 1. The HUD study team feels that for the purpose of modeling it is not unreasonable to stick with low to no growth. Shi-Chiang Li was asked about the level of challenge adding Monroe County to SERPM 6.7 would create, and he responded that it will not be a major challenge.
- Discussions continued on a variety of related topics including the available base and horizon years for each model, consistency among the models, network assumptions for scenario modeling, forecasting to 2060, and roles for the RTTAC-MS.
- Wilson Fernandez moved the motion to support moving forward with using the Greater Treasure Coast model and SERPM 6.7 appended with Monroe County. Shi-Chiang Li seconded the motion. The motion was adopted unanimously.
- Marcela informed the group that the first sustainability summit will take place on June 27th, 2012. Additional discussion ensued about how the RTTAC-MS can remain in the loop on the HUD study, its progress, and findings. The HUD team would be happy to bounce technical information off the RTTAC-MS as the project proceeds.

IV.   Q and A on Origin-Destination Data Capture

Rob Schiffer gave a recap discussion about what was presented on this topic last month and the efforts that have transpired since that time preparing and refining

cost estimates of purchasing AirSage origin-destination data. He also noted work underway by FDOT District 2 and the North Florida TPO on purchase and installation of Bluetooth readers along highways in the Jacksonville area as well as work that FDOT/Central Office was doing with INRIX data for speed information. Andrew and Larry both noted that the INRIX data are available to FDOT District Offices for downloading now. Rob also mentioned a recent white paper prepared by Cambridge Systematics, at the request of FDOT D4, highlighting different methodologies and databases available for origin-destination and speed data. Shi-Chiang Li agreed to share this report with RTTAC-MS members for their use.

A summary presentation was then made by Cy Smith and Bill King, of AirSage, at the request of the RTTAC-MS for the benefit of those not present at the December meeting and as a recap for those who were. Cy also went through a product listing of different analysis types that can be done for comparison with model outputs, as follows:

- OD Matrix
- Productions
- Attractions
- Traffic Counts
- Sub-area Analysis
- Select Link Analysis
- External Station Analysis
- Trip Chains
- Home Work Matrix
- Trip Frequency
- Trip Duration
- Traffic Flow
- Anytime Population

This was followed by a question/answer session with RTTAC-MS members. Questions were answered regarding bias, anonymity/privacy, market segmentation/trip purpose stratification, sampling, coverage areas, trip chaining, time periods, lag time, inference, validation, and other uses of their data and services.

Discussion then moved on to cost of data procurement. Cost is largely a factor of the number of megazones and population within the study area. Li suggested that the geographic level desired and data consistency/completeness would help determine whether the data would be worth the cost. Discussion ensued on how to decide on a product to purchase (geographies, cost, model needs). Cy clarified that 2010 data will only include one cell phone carrier. Wilson suggested that Paul Flavien lead a working group of the RTTAC-MS on narrowing the focus of the AirSage data request with assistance from Rob Schiffer.

V.   Status Report on 2040 Regional LRTP Modeling
Wilson mentioned that a draft scope is available and will be finalized/approved by RTTAC and SEFTC in April. He encouraged folks to review the scope and provide feedback ASAP. The next RTTAC agenda packages will include the scope for the 2040 Regional LRTP update. The scope will be finalized and presented at the RTTAC meeting. The revised scope will then be presented to SEFTC for approval as the final scope for consultant procurement.

VI.   Future Meeting Schedule & Other Topics to Address
Wilson asked that we plan for our next meeting to take place in June, including finalization of the AirSage product purchase recommendation.

VII.   Adjournment