



Full Model Task Force Meeting

March 5-7, 2012

Orlando, FL

MEETING NOTES – March 6, 2012

GIS Committee Update

Nellie Fernandez, Palm Beach MPO

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Introduction to MIXS

MIXS Research

Dr. Ilir Bejleri, UF

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Andres Rabinowicz (Caliper) – Many models overlap and how to maintain the update. The premise is that the network remains the same but the future changes. Matthew Martimo (Citilabs) – Still working on how to address the future network issues. Need to make it seamless to the user. A data structure should be able to accommodate these changes.
 - Andres Rabinowicz (Caliper) – What about non NavTeq type links? Ilir Bejleri (UF) answered that it is not post back to a simple database but posted back as additional attributes to the MIXS database.
 - Mike Escalante (Gainesville MPO) – How is it related to TAZ delineation exercise. Ilir Bejleri (UF) answered that they are yet to work on the zone system.
 - Mary Ross (Tindale Oliver) – Step in the right direction and constantly asked to merge data from different sources and relying on external data since its all under the Navteq system
 - Wade White (White House Group) – Do you envision it extending to freight, transit, or other modes. Transit has come up but don't know much about that yet. Dual centerline model of NavTeq can be challenge.
 - Milton Locklear (North Florida TPO) asked how much work it will involve to do the conversion. Definitely not trivial but depends on the nature of the existing network. Partly automated and QA/QC checking process that will require manual attention. The attributes also require attention but depends on the size of the model and where it is starting from. But documenting the process to make it relevant
 - Milton Locklear (North Florida TPO) – Can we start with NavTeq and start adding links to it. Start fresh and look at functional classification and then bring the attributes over. Since the statewide model is already done so will not be starting with every link. 290K links in entire SERPM. Navteq network has only 69K links in SERPM and 50K links in Turnpike Statewide Model.
 - Danny Lamb (FDOT D7) – Before voting on the motion, it is necessary to emphasize that agencies can keep current network and this is **A** standard. Not a motion to toss current network but an additional standard.
 - Colby Brown (Citilabs) – Tools in Cube available to generate true shape and true shape equivalencies to match stick network with the underlying centerline network. Also tools to build new true shape network.
 - Howard Slavin (Caliper) – Consider using geographically accurate instead of shapefile to be vendor neutral.
 - Shi-Chiang Li (FDOT D4) – Originally tried to have true shape but then separated it since building a model takes effort. So far our finding is that the run time increases so those costs needs to be considered. Colby Brown (Citilabs) – Tools available to reduce run time



Full Model Task Force Meeting Notes

March 5-7, 2012

- Dan MacMurphy (Traf-O-Data) – No standards proposed for coding networks such as freeways etc. and can be addressed by network chaining or network consolidation where multiple GIS networks are combined.
- Jeannette Berk (API) – Suggested that the MTF move in this direction but make sure to resolve the issues in a timely manner. She also suggested changing the motion from true shape to geographically accurate.

Action Items

- The MTF voted on the following resolution – *To adopt a geographically accurate ~~true-shape~~ network as a standard in the FSUTMS framework.* The motion was proposed by Nellie Fernandez (Palm Beach MPO) and seconded by Milton Locklear (North Florida TPO). Larry Foutz (Miami-Dade MPO) abstained.

Data Committee Update

Gary Kramer, West Florida RPC

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Gary provided an update of Data committee activities since the last MTF meeting

FSUTMS Framework for Integrating Land Use Modeling

Wade White, WGI Analytics

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Dennis Hooker (Metroplan Orlando) – FLUAM developed by Metroplan Orlando in 1995.

The Next NHTS

Krishnan Viswanathan, CDM Smith

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Larry Foutz (Miami-Dade MPO) mentioned that all members of the household are needed in the dataset for ABM development.
 - Larry Foutz (Miami-Dade MPO) raised the question about whether it is worth investing money in the next NHTS or do own household activity survey.
 - Denise Bunnewith (North Florida TPO) asked a question about timing to procure funding. Vidya Mysore (FDOT CO) mentioned that he would bring it up with the NHTS program manager (Tianjia Tang, FHWA) to get a sense of when FHWA expects to hear from partners about being part of the add-on survey.
 - Dennis Hooker (Metroplan Orlando) indicated that some of the counties did not use the data.
 - Unanimous opinion indicated that more data is needed for ABM and travel demand models.
 - Denise Bunnewith (North Florida TPO) – Doing something right in data collection methodology since the response rate is so high.

Action Items

- Krishnan Viswanathan (CDM Smith) to provide NHTS User Forum details at the ITM conference to FDOT and the Data Committee.
- Danny Lamb (FDOT D7) suggested that FDOT CO, Gary Kramer (West Florida RPC), Krishnan Viswanathan (CDM Smith), and Carl Miksyka (FHWA) get together and discuss what are the steps that the MTF should take regarding Florida's participation in the next NHTS.



Full Model Task Force Meeting Notes

March 5-7, 2012

Acquisition and Application of Tourism Data in the Florida Statewide Model

Daniel Miller, BCC Engineering

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Thomas Hill (FDOT D2) – Did you look at intrastate, regional, or weekend trips? Weekend trips cannot be delineated out. Trips separated by FL residents and month. Origin at Census block level and destination inside the state.
 - Data from Florida Dept of Revenue used to classify establishment units.
 - Tom Rossi (CS) – Does this include travel into and out of Florida and also what they do once in Florida?
 - Scot Leftwich (Leftwich Consulting) – Are you using this for assignment. Orlando using reverse Ps and As to assign visitors. Done because Disney would not share information.
 - Mike Escalante (Gainesville MPO) – Condos implies timeshare data. Trip purpose information at fine grained including spring training etc.
 - Lilian Tsang (KAI) – When breaking out trips by TAZ do you take the occupancy rate? The model handles occupancy rates.

District Model Coordinators Update – District 4

Shi-Chiang Li, FDOT D4

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Dan Morgan (Caliper) – 95E service pulled riders away from other services and if the model reflects this information.

District Model Coordinators Update – District 7

Chunyu Lu, RS & H

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Dennis Hooker (Metroplan Orlando) – How many truck classifications do you have? Light and Heavy. All MPOs use light and Heavy and statewide model uses Medium and Heavy and need to come to an agreement on what we are modeling.
 - Class 5 to 7 as light and 8 plus as heavy.
 - Andres Rabinowicz (Caliper) – running ABM with DTA and using static assignment with TBRPM. DTA will take more computer resources to do assignment. Construct the model to get by with a static assignment and create a windowing technique to do DTA.
 - Denise Bunnewith (North Florida TPO) – Daysim/Transim takes a week to run. Transmodeler used as a post processor and test to see how well it runs.

District Model Coordinators Update – District 2

Thomas Hill, FDOT D2

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Ken Kaltenbach (The Corradino Group) – Update on NERPM Port Truck Models
 - Steve Lawe (RSG) – Four county model calibrated to 2005 integrated with microsimulator. Tested and running. Updating to 2010. Two more counties. Process will be linked with Cube. Model testing in summer and in time for LRTP update.



Full Model Task Force Meeting Notes

March 5-7, 2012

- Thomas Hill (FDOT D2) – Model developed for Taylor, Madison, and Dixie County carved out of statewide model. Response to development pressures. The Department with TPO is installing Bluetooth receivers in the four county region and picks MAC address.

Cube 6 with cloud services

Colby Brown, Citilabs

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Andres Rabinowicz (Caliper) – Citilabs not only company providing transportation models in the cloud.

Tri-Chair Nominations

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Next Tri-Chair should be a MPO or DOT employee
 - Wilson Fernandez (Miami-Dade MPO) nominated Denise Bunnewith (North Florida TPO) as Tri-Chair. Jeannette Berk (API) seconded. Denise Bunnewith (North Florida TPO) accepted the nomination.

Action Items

- Email Terry Corkery (FDOT CO) with comments about resolution regarding frequency of MTF meetings.
- The entire MTF affirmed Denise Bunnewith (North Florida TPO) as next Tri-Chair to replace Shi-Chiang Li.

FSUTMS Demand Side

Wilson Fernandez, Miami-Dade MPO

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Vidya Mysore (FDOT CO) gave an overview of the vision for moving towards ABM in Florida. The goal is to have Chandra Bhat (UT Austin) and Ram Pendyala (Arizona State) to present the blueprint to move the state forward.

Activity Based Models: Short-term and Long-term Strategic Plan

Chandra Bhat, UT Austin, Ram Pendyala, Arizona State

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Activity participation question in next NHTS.
 - Vidya Mysore (FDOT CO) – MTF needs to give direction to FDOT CO within next six months how to advance ABM so that systems are in place before the next LRTP cycle. FDOT focus on trucks and freight so as to address all the needs of the state.
 - Wilson Fernandez (Miami-Dade MPO) – Not prepared to make specific recommendations but commitment is there to bring forward to the full MTF recommendations for next steps. Because of policy needs and lack of current trip based modeling techniques to address these needs, the Florida modeling community needs to be prepared to move towards ABM framework.
 - Vidya Mysore (FDOT CO) – Form a working group similar to the transit model group to assist FDOT CO.



Full Model Task Force Meeting Notes

March 5-7, 2012

- Larry Foutz (Miami-Dade MPO) – Please get involved to make sure all questions are resolved so that everyone is comfortable with the decisions being made during the next MTF.
- Danny Lamb (FDOT D7) – If comprehensive model structure is not adopted there is a fear of being left behind.
- Shi-Chiang Li (FDOT D4) – Need to be able to adopt ABM to meet modeling and policy needs
- Milton Locklear (North Florida TPO) – Taking the existing data and refining it and more data will be great. Not really quite that daunting.
- Larry Foutz (Miami-Dade MPO) – To make it not so daunting it has to be a step wise progression.
- Wongoo Lee (JTA) – As long as we adopt Cube Voyager platform we need a standard FSUTMS framework so that ABM can adopted statewide. If we are moving towards a diverse framework is FDOT CO planning to work with Citilabs to deliver a structured ABM framework for the state.
- Shi-Chiang Li (FDOT D4) – Need to have variety of model structures.
- Dennis Hooker (Metroplan Orlando) – Maybe time for a blue ribbon panel to examine model structure.
- Chandra Bhat (UT Austin) – Some DOTs also thinking ABM and many MPOs are already there. So very timely from a leadership point of view for FDOT to take a stand among various DOTs. Strong technical resources available to meet the needs of the state.

Action Items

- Tri-chairs to work on forming a working group to provide draft blueprint about moving forward to ABM.

Travel Survey Data

Siva Srinivasan, UF and Abdul Pinjari, USF

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Dan Beaty (Atkins) – Issues with D3 rural counties
 - Scott Seeburger (FDOT D4) – Borrow data based on trip comparability. More rigorous assessment needed on how to compare trips.
 - Mike Escalante (Gainesville MPO) – Grow the data by using multipliers. Since multipliers show uniform growth, not the best solution since there is a need to represent the variation.
 - Neil Lyn (FDOT D6) – What is the process for the long term? Allow flexibility to regions to build their needs. Provide recommendations on how the models will look like but depends on data and needs.
 - Arturo Perez (Leftwich Consulting) – Can you clarify stops/tour. NHB are secondary trips and models struggle to get modes, TOD, destinations right.
 - Rama Balakrishna (Caliper) – Characteristics of trips w.r.t. trip lengths etc. Lots of patterns in trips that start in one county and end in another. Maybe it might be worth looking at destination counties to group them to meet data needs.

Freight Modeling Visioning for the State

Juan Flores, FDOT Freight & Logistics Administrator

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Comprehensive office – covering all modes (air, rail, water, and truck)
 - Shippers want options



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March 5-7, 2012

- What is role of DOT given funding constraints? Look to different modes
- FDOT staff are bridging the gaps and reaching out to the industry to get industry insights
- Freight model needed to answer policy questions regarding goods movement in the state

Status of Statewide Freight Model Update

Vidya Mysore, FDOT CO

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - Develop a plan of action to update the statewide freight model – top down and bottom up approach

Action Items

- Develop a plan of action to update the statewide freight model – top down and bottom up approach

SHRP2 C20: Freight Demand Modeling and Data Improvement Strategic Plan

Pat Anater, Gannett Fleming

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - No questions were raised.

Advanced Goods Movement Framework

Maren Outwater, RSG

- All PowerPoint presentations are now available online at www.fsutmsonline.net
- Discussion items
 - No discussion.

Meeting Adjourned at 5:15 PM