

## MTF Model Advancement Committee Meeting – August 11, 2015 – 3:00 PM-4:00 PM

### Meeting Notes:

MTF Model Advancement Committee Meeting Teleconference

Meeting notes by Makarand Gawade, RS&H

### Attendees:

Xiao Cui, Florida's Turnpike Enterprise	Dennis Bunnewith, North Florida TPO	David Rae, AECOM
Vladimir Majano, FDOT Central Office	Mohammed Hadi, FIU	Abdul Pinjari, USF
Menna Yassin, FDOT District 7	Rosella Picaodo, Parsons Brinckerhoff	Ken Kaltenbach, Corradino Group
Daniel Beaty, PBS&J	Shi-Chiang Li, FDOT District 4	Li Jin, Kittelson & Associates
Sung-Ryong Han, BCC Engineering	Siva Srinivasan, UF	Xia Jin, FIU
Krishnan Vishwanathan, CDM Smith	Srinivas Varanasi, Corradino Group	Elaine Martino, Martino Planning
Wilson Fernandez, Miami Dade MPO	Bob Crawley, Heartland Regional Transportation Planning Organization	Rama Bal Krishnan, Caliper
Tom Rossi, Cambridge Systematics	Makarand Gawade, RS&H	

### Item 1: Welcome by Xiao Cui

- Brief introduction by Dr. Xiao Cui
- Xiao invited everyone for short presentations on their research projects which are related to Model Advancement Committee.

### Item 2: Current Research Projects

- Presentation 1: Professor Mohammed Hadi presented his research project funded by FDOT Central Office – Research Center, titled “Framework for Multi-Resolution Analyses of Advanced Traffic Management Strategies”
- Presentation 2: Professor Xia Jin presented her research project funded by FDOT Central Office – Research Center, titled “Investigating the Value of Time and Value of Reliability for Managed Lanes.”
- These presentations are online on FSUTMS website.
- URL: [http://www.fsutmsonline.net/index.php?/model\\_task\\_f/model\\_adv\\_committee/](http://www.fsutmsonline.net/index.php?/model_task_f/model_adv_committee/)

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- Xiao invited members to send their project research proposals through FDOT Central office- Research Center funding.
- It was mentioned that both research projects will fit together and can be potentially used together to enhance some of the existing models. Professor Hadi mentioned that Professor Jin's work can be potentially incorporated in their research work.

### Item 3: MAC 2015-2016 Goals Survey Results and Analysis

- Makarand Gawade presented the survey results for potential goals of Model Advancement Committee  
The presentation is online on FSUTMS website:
  - URL: [http://www.fsutmsonline.net/index.php?/model\\_task\\_f/model\\_adv\\_committee/](http://www.fsutmsonline.net/index.php?/model_task_f/model_adv_committee/)

### Item 4: MAC 2015-2016 Goals Discussion

- As per the survey results, top 4 priority goals are as follows:
  1. Development of ELToD and applications of Express Toll Lanes
  2. Guidelines for effective modeling techniques (avoiding over-specification errors, model interpretation and other techniques)
  3. Integration of Activity Based Modeling (ABM) output into Dynamic Traffic Assignment (DTA)
  4. Improving route choice modeling
- Other suggestions were as follows:
  1. There should be focus on reevaluation of model platforms like Cube, Trans Cad and others to test their advantages, limitations, benefits and applications.
  2. There should be a look at the practices which are being used by the current platforms and see if the models are accurate or not. Assignment practices and feedback process are not converging to the extent that different policy scenarios can be tested accurately.
  3. Caliper are currently finishing a Federal Transit Administration funded project which is a review of traffic assignment practices and feedback methodologies. Xiao invited Caliper to present the project outcomes (if possible) in the next committee meeting.
  4. This committee should focus on model practices and how to best use the model. There is a concern of less confidence/more variability in models and how to use robust modeling processes with data issues. It will be important to have a balance between these two concerns. It will be good to have a research to understand and change model calibration processes.
  5. Uncertainty of model forecast which encompasses model validation, forecast accuracy as well as other sources of uncertainty can be one of the focus areas. Uncertainty can be in the input data and behavioral changes. Hence, there is a need to have range of forecasts.

### Item 5: Announcements:

- Gabrielle has announced a series of webinars which can be found on FSUTMS website.