

FMTF Data/GIS Committee Meeting Minutes

Date: Thursday, June 7, 2018
Time: 2:30 P.M. – 3:30 P.M. EST
Where: Web Conference



<u>Attendee</u>	<u>Agency</u>
Terry Corkery	FDOT Central Office
Frank Tabatabaee	FDOT Central Office
Hui Zhao	FDOT District 4
Soliman Salem	City of Jacksonville
Bob Crawley	Heartland TPO
Richard Ranck	Hillsborough MPO
Nikhila Rose	MetroPlan Orlando
Gary Kramer	West Florida RPC
Mike Doherty	AECOM
Bill King	AirSage
SungRyong Han	BCC Engineering
Sheldon Harrison	Cambridge Systematics
Heather Lupton	Cambridge Systematics
Krishnan Viswanathan	Cambridge Systematics
Patricia Tice	CREWS, LLC
Jeanette Berk	Gannett Fleming
Hoyt Davis	Gannett Fleming
Makarand Gawade	HDR
Tanner Martin	HDR
Andrew Young	HNTB
Li Jin	Kittelson & Associates
David Farmer	Metro Forecasting Models, LLC
Chetan Joshi	PTV Group
Jongson Won	PTV Group
Daniel Miller	RK&K
Richard Pascoe	Stantec
Jeremy Graham	Traf-O-Data
Dan Macmurphy	Traf-O-Data

Meeting began at 2:32pm

Item 1: Florida Model Information Exchange System (MIXS) Discussion

- The MIXS project started in May 2011 with Dr. Ilir Bejleri from University of Florida and completed in September 2013.
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- Sought to make a common network for each of the models to utilize.
 - First approach was the development of exchange system. Every link and node would have the attributes from their origin network which can be exchanged across for accuracy.
 - Another approach would have been a conversion system, which required the development of a conversion tool.
 - Each approach would have its pros and cons which are detailed in the final report posted on the FSUTMS Online.
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- The project required a cloud system, which required continuous annual funding.
- The system would require a commitment from the districts, MPOs and Central Office for the development and reoccurring maintenance cost, as well as commitment to use the system.
- While this project could make a more accurate highway network, it could cause reporting inconsistencies across models.
- This topic may be worth bringing up at the full Model Task Force in December or the next Data/GIS Committee meeting.
- May be useful for a best practices analysis.

Action Item:

- **Frank Tabatabaee will communicate with FHWA to bring awareness to the status of the project.**
- **This topic will be further addressed at the Florida Model Task Force meeting in December.**

Item 2: Metadata List of Transportation Models for Inclusion on FSUTMSOnline

- FSUTMSOnline was updated last year, prompting the creation of a model metadata checklist for inclusion on the website.
- The Committee is looking for volunteers who will vet and modify the Metadata Checklist.
 - Once vetted, the list will come back to the committee for further feedback, and then ultimately, the list will be presented to the full Model Task Force.
- The models included on FSUTMSOnline are available for download. When a new/updated model is being uploaded, there will be a prompt upon upload to input the metadata items listed in the provided document.
 - The metadata list would be placed on the website along with the link to download the model.
 - This will serve to standardize the process and create more model transparency.
- It needs to be short and simple.
 - Eight to ten simple questions with simple answers.
- Can interim year be noted depending on the usefulness of the data?
 - Ex. The ability to interpolate the model data from year to year.

- May be useful to provide a checklist of what data was updated and how for the interim year.
- Could be helpful to have a graphic of the model structure for each model on the model download page, versus the current text-based format.
 - A map at the top of the page with an outline of each of the models based on their county/region.
 - Each region could be clicked, directing users to the model coverage in that area.
 - Having local jurisdictions providing information on their individual models could be helpful due to the increased detail they provide.
- The metadata checklist could be an evolving feature, where the Committee has a vetting process for the addition and modification of attributes/variables to the checklist.
- Are you thinking of only adopted models or project-specific models for inclusion in this checklist and repository?
 - In the past, we have left it up to the Districts to determine which models they would like to post on FSUTMSOnline.
 - Districts tend to refrain from posting project-specific models as to not cause misuse of models.
 - May be useful to have a list of the project-specific models for each District and have users contact the model coordinators for more information.
 - Local jurisdictions often modify models to add more detail to subareas of the model, so it may be useful to make this information available on the website.
 - Since it's done by the local jurisdictions, it may not be as vetted as the District models.
- Are there any volunteers? It would be helpful to have individuals who are proficient with Geographic Information Systems (GIS).
 - Dan Beaty, volunteered previously
 - Richard Pascoe
 - Makarand Gawade
 - Patricia Tice

Action Item:

- **Dan Macmurphy will provide an example based on the District 1 Regional Planning to Frank Tabatabaee, Terry Corkery, and Gary Kramer to review. If it is deemed acceptable to provide to the four volunteers, Terry Corkery will e-mail it to the four volunteers as a resource in updating the metadata check list.**
- **Terry Corkery will contact the contractors at Florida International University about the inclusion of a map on the model download page on FSUTMSOnline.**
- **The four volunteers should discuss the initial draft metadata checklist and provide an updated draft to Frank Tabatabaee, Terry Corkery, and Gary Kramer to review. A follow-up meeting with the four volunteers will be arranged after an updated draft has been provided.**

Item 3: Freight Data Fusion Update for Transportation

- Worked with Dr. Naveen Eluru from University of Central Florida and Dr. Abdul Pinjari from the University of South Florida.
- The data fusion research project started in January 2016 and completed in March 2018.
 - The Final Report is available on FSUTMSOnline for downloading and your review.

- The project developed Origin-Destination (O-D) tables for commodity flow and empty truck backhaul.
 - Fuses 2011 TranSearch, 2012 FAF4 and WIM data to provide commodity flow and empty truck backhaul.
- The data will be served to clients on a one-on-one basis.
 - When requesting the data via email, please provide a short description on the purpose of the data use so that we can share your expertise with others.

Item 4: AirSage Global Positioning System (GPS) Data Update

- Bill King provided a presentation on AirSage's updated GPS data and abilities.
 - The source data is more precise.
 - AirSage still has access to cell carrier data, but the GPS data is preferred for use due to its significantly greater precision.
 - Stops can be pinned to the actual address.
 - The data has anonymous persistent identification for the life of the device.
 - The GPS follows everywhere and uploads when cell service is resumed.
 - Can provide the Origin-Designation stop data for long distance trips for any distance.
 - The GPS data is gathered from various intermediary entities selling ad space in various phone applications.
 - AirSage aggregates the data from these various sources.
 - Presentations to the Data/GIS Chair and FDOT Staff occurred previously.

Potential Action Item:

- **May be considered for Origin-Destination Studies in the future for the statewide model if funding allows.**

Item 5: Comments

- What percent of data captured by the AirSage data is grounded by traffic counts?
 - Not focused on moving points so much as origins and destinations.
 - Will only catch approximately half.
 - AirSage compares attendance figures at various venues for known O-Ds.
- What kind of bias analysis from a socioeconomic standpoint have been conducted with the AirSage data?
 - When dealing with carrier data, it was highly biased due to market segmentation from cell phone providers.
 - Level the data to account for this bias.
 - Bill King will provide the documentation of the process.
 - The new GPS data has a geographic bias, but not so much a socioeconomic bias.

Action Item:

- **Bill King will provide documentation on the process used to account for socioeconomic bias within AirSage data.**

Meeting adjourned at 3:35pm.