



TPB TRAVEL FORECASTING SUBCOMMITTEE

Friday, September 24, 2021

9:30 A.M. to 12:00 noon Eastern (6:30 A.M. to 9:00 A.M. Pacific)

Due to COVID-19 precautions, this meeting will be held by teleconference

(See WebEx call-in information at the bottom of this agenda)

AGENDA

- 9:30 A.M. **1. INTRODUCTIONS AND APPROVAL OF MEETING HIGHLIGHTS FROM THE PREVIOUS MEETING**
Michael Eichler (Washington Metropolitan Area Transit Authority), TFS Chair
- 9:35 A.M. **2. COG/TPB AIR PASSENGER SURVEYS: EVALUATION OF METHODOLOGY**
Kenneth Joh, TPB Senior Statistical Survey Analyst
- TPB has conducted a regional air passenger survey (APS) approximately every two years at the Washington-Baltimore region's three commercial airports; the APS is the key source of observed data for regional air systems planning. In response to declining response rates and other methodological challenges, TPB conducted a comprehensive evaluation of the APS. This presentation will discuss the benefits, costs, and other considerations for implementing changes to the survey and provide recommendations.
- 10:05 A.M. **3. INTEGRATING ACTIVITYSIM AND DYNAMIC TRAFFIC ASSIGNMENT FOR A MEDIUM-SIZED CITY IN OHIO**
Howard Slavin, Vince Bernardin, Daniel Morgan, Andres Rabinowicz, and Arun Akkinepally. Caliper Corporation
- Caliper has been researching implementation of integrated ABM-DTA models in several regions. We will provide an illustration of some of the fruits of this R&D using an ongoing effort for the Toledo Metropolitan Area Council of Governments (TMACOG) to implement a combined ActivitySim model and a TransModeler mesoscopic DTA. We will discuss various improvements in platform support for ActivitySim, some key issues in model integration, and results achieved to date.
- 10:45 A.M. **4. REWEIGHTING OF THE 2017-2018 COG/TPB REGIONAL TRAVEL SURVEY (RTS)/2018-2019 MARYLAND TRAVEL SURVEY (MTS) DATA FOR DEVELOPMENT OF THE GEN3 TRAVEL MODEL, PHASE 1**
Ray Ngo, TPB Senior Transportation Engineer
- The data from the merged RTS-MTS have been utilized in the ongoing development of the Gen3 Travel Model. TPB staff, with RSG's assistance, made some additional adjustments to the survey weights using PopulationSim software. This post-process was to address several issues, such as the implications of using household size as the single expansion variable, the overestimation of homeschooled students, the overestimation of commuter rail ridership, and the underestimation of bus ridership. This presentation will discuss

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the use of PopulationSim to address these issues and the use of PUMA consolidation.

11:10 A.M. 5. COG/TPB GEN3 TRAVEL MODEL: STATUS REPORT

Joel Freedman, Senior Director, RSG

Over the past two months the Gen3 Model development team has been working on using the “estimation mode” functionality of ActivitySim to estimate tour mode and destination choice models. This feature of the software involves substituting the household travel survey for the input synthetic population, and creating “estimation data bundles” for each model component. A series of Jupyter notebooks use the Larch model estimation package to re-estimate the ActivitySim model specification for each model component. Estimation data bundles can also be read into ALOGIT. Joel will describe the model estimation process and share tour mode and destination choice model estimation results.

11:40 A.M. 6. ROUNDTABLE DISCUSSION OF CURRENT MODELING EFFORTS AROUND THE REGION

Michael Eichler, TFS Chair

TFS members will have an opportunity to inform the subcommittee about active or planned project planning studies that are underway in their respective jurisdictions.

11:55 A.M. 7. OTHER BUSINESS

- a. Snapshots of effects of COVID-19 on travel, available on COG website (Martha Kile)
- b. Big Data Evaluation Update (Tim Canan)
- c. Upcoming guest presentations at TFS meetings in 2021 (Mark Moran)
- d. Next meeting scheduled for Friday, November 19, 2021, 9:30 A.M. to 12 noon

12:00 P.M. 8. ADJOURN

Call-In and Web Conferencing Information

[Join WebEx Meeting](#)

Friday, Sep. 24, 2021 9:30 A.M. | 2 hours 30 minutes | (UTC-04:00) Eastern Time (US & Canada)
Meeting number: 161 070 4319

Join by video system

Dial 1610704319@mwkog.webex.com

You can also dial 173.243.2.68 and enter your meeting number.

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