

COG/TPB GEN3 TRAVEL MODEL

Status report from COG/TPB staff

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Overview

- Official release of the Gen3 Model
- Model webpage updates on COG Website
- Post-release model development activities
- Next steps



Official Model Release: Overview

- After six years of development, and following a beta test, TPB's Gen3 Travel Demand Model was released on April 22 for production use.
- On April 23, we followed up with all the recipients of the beta model and provided them access to the official model.
- TPB now offers two production-use regional travel models:
 - Gen2/Ver. 2.4.6: Aggregate, trip-based, adopted by TPB
 - Gen3/Ver. 1.1.0: Disaggregate, activity-based, not adopted by TPB
- TPB will continue to use and support the Gen2 Model in the foreseeable future, but we also anticipate transitioning to the more advanced Gen3 Model to support future regional transportation planning efforts.



Official Model Release: Transmittal Package

- The transmittal package for the Gen3/Ver. 1.1.0 Travel Model is available upon request.
- The transmittal package contains the following:
 - Model application and script files
 - Travel model inputs corresponding to the years 2018, 2025, 2026, 2030, 2040, 2045, and 2050, including Visualize 2050 network inputs and COG Round 10.0 Cooperative Forecasts of land use for years 2025 to 2050
 - Model User's Guide and Gen3 Model network report
 - Model calibration and validation documents
- Before executing the Gen3 Model, please ensure that your computer system meets the software and hardware requirements of the model (detailed in the release email).
- Model User's Guide should guide you through the basics of the model and help you get started with the model run.



Model Webpage Updates on COG Website

- The model webpages on the COG Website were designed with a focus on the trip-based Gen2 Travel Model.
- With the official release of the Gen3 Model, the model webpages were restructured and updated to place equal emphasis on the Gen2 and Gen3 models.
- The updated model webpages can be accessed via <https://www.mwcog.org/transportation/data-and-tools/modeling/>

Travel Demand Forecasting

Modeling Process & Data

Gen2 Travel Model

Gen3 Travel Model

Data Requests

Model Reviews



Post-Release Model Development Activities

- In-house model development activities
 - Additional model testing
 - Transit pass subsidy model sensitivity test
 - Short-term travel disruption
 - Model enhancements and bugfixes
 - Bugfix associated with a typo found in trip destination utility spec files
 - Bugfix associated with non-motorized skims
 - Enhancements on the model visualizer
 - Preparation for stakeholder model training
- Consultant assistance on model development
 - Smaller ad-hoc tasks will be covered under Task 1 (activated)
 - Major tasks will be covered under Task 4 “Gen2 Model Update”(not activated) or Task 5 “Gen3 Model Update”(not activated), likely informed by the strategic plan that is being updated under Task 2



Next Steps

- In the next couple of months, TPB staff will:
 - Continue to provide the official Gen3 Travel Model per request.
 - Conduct additional model testing.
 - Continue to work on visualizer enhancement.



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