

# FY 2024



National Capital Region  
**Transportation Planning Board**

**Work Program Progress Report**

**OCTOBER 2023**

**FY 2024**

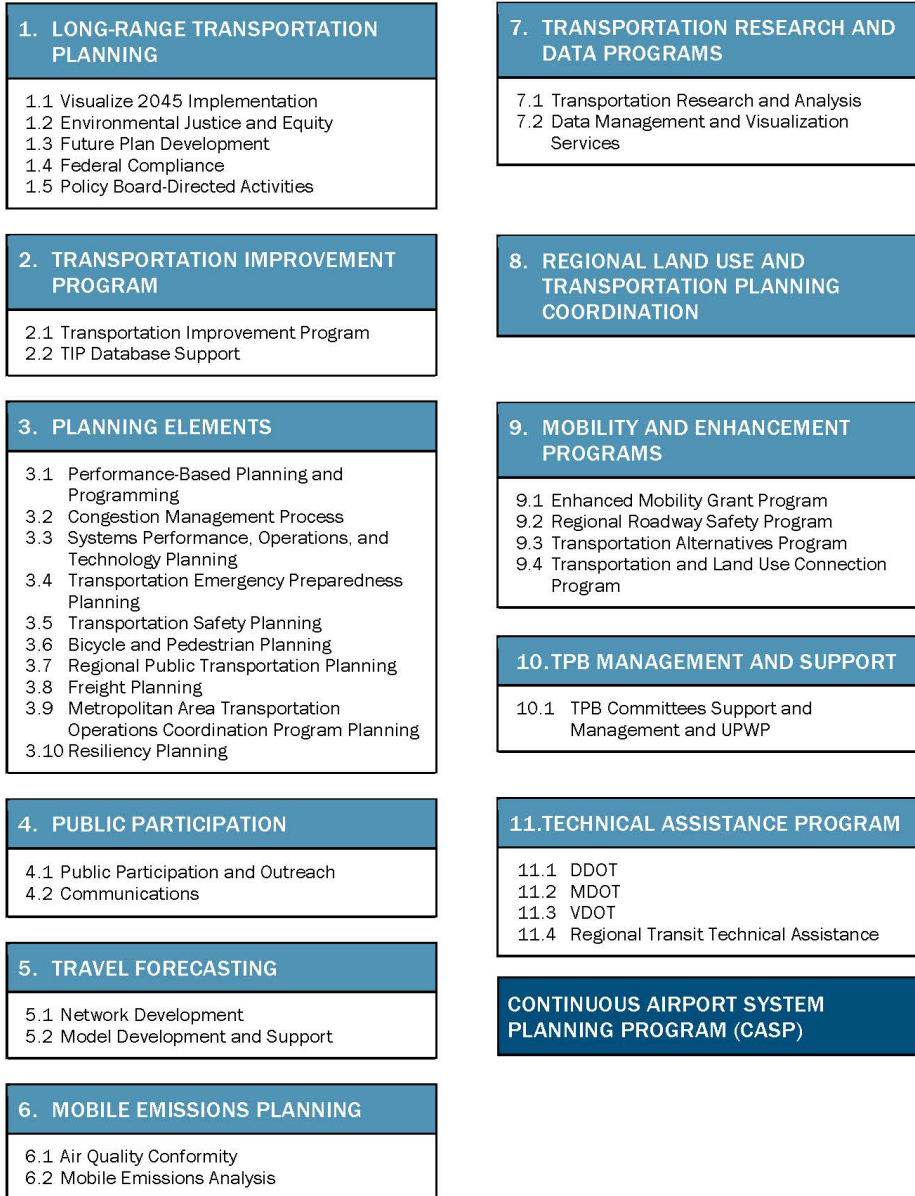
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The TPB approved its FY 2024 Unified Planning Work Program (UPWP) in March 2023. The TPB Work Program Progress Report summarizes each activity for October. In addition, this report concludes with status updates reflecting timelines for all ongoing program plans and projects. Please reference the 2024 UPWP for details concerning the approved budget, and work description for each task. The following graphics identifies all the activities in the UPWP.



Task 1	BUDGET	Billed this month	% Funds Expended	UPWP Page
LONG RANGE TRANSPORTATION PLANNING	\$1,136,668	\$57,815	25%	41

**1. LONG-RANGE TRANSPORTATION PLANNING**

***Task 1.1 – Visualize 2045 Implementation***

Staff met with TPB internal leadership to discuss selected aspirational initiatives and the scope of work to be conducted on them. Staff reviewed the Places + Opportunities COG publication that is related. Staff attended several MD tour meetings with individual localities. Staff reviewed the draft Congestion Management Plan Update, met with CMP staff several times, and suggested changes related to the Visualize plan and the draft Citizen’s (People’s) Guide Update for consistency with the transportation plan.

***Task 1.2 – Environmental Justice and Equity***

No activities to report.

***Task 1.3 – Future Plan Development***

Staff held the 2050 monthly team meeting and continued meeting with internal staff regarding their areas of expertise and potential contributions to the plan. Staff initiated internal staff meetings to continue preparations for and start review of project inputs. Staff coordinated on financial and air quality inputs for the PIT database as project agencies began submissions for the Visualize 2050 air quality conformity analysis.

Staff held Q&A meetings for stakeholders on PIT inputs. Staff participated in initial conversations about PIT 2.0 development.

Staff continued working with Metroquest and internal staff to coordinate preparation of a survey for the next comment period. Staff finalized a detailed presentation and summary for the Technical Committee on the public comment summary to date and continued overall reporting on engagement at the TPB and STWG meetings.

Staff met internally to discuss the bike/pedestrian module in the project infotrak database and how to incorporate more information about bike/pedestrian improvements in the 2050 plan. Staff discussed the updates for the bike/pedestrian plan and how that relates to the 2050 plan update. Staff attended the VA Governor’s Transportation Conference and the regional Regional Transportation Resiliency Forum.

***1.4 – Federal Compliance***

No activities to report.

***1.5 – Policy Board-Directed Activities***

No activities to report.

Task 2	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRANSPORTATION IMPROVEMENT PROGRAM	\$583,710	\$89,728	24%	43

**2. TRANSPORTATION IMPROVEMENT PROGRAM**

**2.1- Transportation Improvement Program (TIP)**

At its meeting on Friday, October 6, the TPB Steering Committee adopted resolution SR7-2024, approving an amendment to the FY 2023–2026 TIP that is exempt from the air quality conformity requirement. This amendment was requested by MDOT to reprogram and add funding for the MD 4 at Suitland Parkway Interchange Construction project. MDOT added approximately \$60 million to the total cost of the project and reprogrammed approximately \$94.8 million in funding from the 4-year span of the TIP into fiscal years beyond FY 2026, resulting in a net decrease of approximately \$18.6 million to the FY 2023–2026 program total.

**2.2-TIP Database Support**

Contractor EcoInteractive, continued to provide their Software as a Solution platform, customized and branded as TPB’s Project InfoTrak database application, as well as ongoing bug fixes and help desk support for staff and member agency users.

Work in progress or completed in October under the baseline maintenance and support contract included:

- Implementing logic for when mapping is required based on the key changing from Primary Project Type to System/Location fields (Complete)
- Fix to the Change Narrative field in the Conformity Information Report (Complete)
- Exporting a list of all versions of all Conformity Records (In Progress)

Under an expanded contract for professional services, EcoInteractive developed and refined customizations of the software platform, and performed other specialized tasks. Work underway and completed in October under the professional services contract included:

- Updating new values in the Primary Project Type (Complete)
- Update response options for Question 43 and wording of Question 44a (Complete)
- Update Public Site map to have new Primary Project Types on the Interactive Map (In Progress)

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	\$3,905,138	\$179,353	18%	45

**3. PLANNING ELEMENTS**

**3.1 Performance-Based Planning**

Staff collected data for the annual Highway Safety and Transit Safety performance measures and calculated regional performance and annual targets. Briefing materials were prepared for TPB and TPB Technical Committee meetings in November.

### ***3.2 Congestion Management Process***

Staff continued information gathering and development of the 2024 Congestion Management Process Technical Report.

### ***3.3 Systems Performance, Operations, and Technology Planning***

Staff prepared for future meetings of the Systems Performance, Operations, and Technology Subcommittee.

### ***3.4 Transportation Emergency Preparedness Planning***

The regularly scheduled October 11, 2023 Transportation Emergency Preparedness Committee (R-ESF 1) virtual meeting was organized and conducted, discussing current regional transportation emergency preparedness issues.

### ***3.5 Transportation Safety Planning***

TPB staff began collecting and analyzing regional crash data and safety information in preparation for developing annual regional highway safety targets. In addition, the Transportation Safety Subcommittee met on October 10, 2023. The meeting agenda included a briefing about a recent study exploring the impact of select speed-reducing countermeasures on pedestrian and bicyclist safety by the National Highway Safety Administration's (NHTSA), a briefing about the Maryland Pedestrian Safety Action Plan (PSAP) by Maryland Department of Transportation (MDOT) staff, and a briefing about National Capital Region annual transit safety targets by TPB staff.

### ***3.6. Bicycle and Pedestrian Planning***

Staff continued working with TPB member agencies to make corrections and updates to the draft National Capital Trail Network, toward November review by the TPB Technical Committee.

### ***3.7 Regional Public Transportation Planning***

The Regional Public Transportation Subcommittee met virtually in October. The theme of the meeting was a regional passenger rail forum, with speakers from Amtrak, VPRA, and VRE. TPB staff also provided briefings on regional transit on-board survey coordination and an update on the high-capacity transit (HCT) network analysis.

A TPB work session on intercity rail and bus travel was held before the October 18 board meeting. Speakers included representatives from Amtrak, Union Station Redevelopment Corporation (USRC), American Bus Association (ABA), Maryland Department of Transportation- Maryland Transit Administration (MTA), and the Virginia Passenger Rail Authority (VPRA). Staff organized and facilitated the event.

Staff completed the 2023 State of Public Transportation Report. Staff prepared letters of endorsement for federal grant applications by member jurisdictions.

Staff worked with on-call planning consultants on the study of local transit access to HCT stations. Staff attended several WMATA meetings, including bus subsidy formulas, the Blue Orange Silver capacity study, and the monthly JCC meeting, as well as the monthly NVTC MAC meeting. Staff also conducted financial analysis and attended multiple meetings as the region is considering future funding for WMATA.

### ***3.8. Freight Planning***

Proposed updates to the District's CUFC network were presented to and approved by the TPB Steering Committee at its October 6, 2023 meeting. In addition, TPB staff held planning sessions on October 5 and 19 with the Freight Subcommittee Chair to identify topics and speakers for future Subcommittee meetings.

**3.9 Metropolitan Area Transportation Operations Coordination Program Planning**

The regularly scheduled October 10, 2023 meeting of the MATOC Severe Weather Coordination Working Group was organized and conducted, hosted at COG offices, discussing preparations and coordination for transportation agency response to the upcoming winter weather season.

The regularly scheduled October 20 virtual meeting of the MATOC Steering Committee was organized and conducted, discussing communications, coordination, and Traffic Incident Management topics.

The regularly scheduled meeting of the MATOC Operations Subcommittee was organized and conducted on October 26, hosted at the Transurban operations center, discussing regional roadway operations and traffic issues.

**3.10 Resiliency Planning**

Staff continued to make progress on the Phase II Transportation Resiliency Study with the contractor, ICF. One major milestone in October 2023 was holding the first ever Regional Transportation Resilience Forum in our region, at MWCOG/TPB HQ. It was a virtual meeting, with roughly half the attendees in person and the other half online, totaling over 60 attendees. This half-day meeting reviewed work to date on the Transportation Resilience Improvement Plan (TRIP), focusing on the methodology and preliminary results of phases 1 and 2 of the vulnerability assessment. The forum included interactive components, culminating with breakout groups with facilitators in each group where the results of the interactive mapping tool were reviewed, and comments collected to enhance the user experience and usefulness of the tool for member agencies. Several follow-ups were necessary over the course of the month, including: collecting and summarizing notes from all breakout rooms, providing comments to ICF on interactive map and potential for updates to data inputs, followed up individually with several attendees to answer questions and brainstorm solutions to data issues, reviewed materials to send to working group, and made plans for future meetings and events.

Other major milestones for staff revolved around transportation resilience planning as a state of practice. Staff prepared for the Transportation Research Board’s International Transportation Resilience Conference, which TPB’s Transportation Resilience Planner prepared two panel presentations for. Staff began planning for content and materials to be included in the resilience section of Visualize 2050 and kicked off the Prince William County TLC project on Green Infrastructure.

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Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	\$753,904	\$61,770	30%	53

**4. PUBLIC PARTICIPATION**

**4.1 Public Participation and Outreach**

The October meeting of the 2023 - 2024 TPB Community Advisory Committee (CAC) was held on Thursday, October 12. The committee received a presentation from TPB Transportation Planner Michael Farrell on the Bicycle and Pedestrian Plan for the National Capital Region and a presentation from WMATA Acting Senior Vice President Allison Davis on the Metro Better Bus Network redesign.

Staff continued to coordinate with the TPB consultant and state DOT representatives on the update of *A People's Guide to Transportation Decision-Making in the National Capital Region*.

Staff continues to implement recommendations from the 2020 Public Participation Evaluation.

Staff continue to compile and share public comments from the Visualize 2050 Initial Project List Feedback Form which includes project-specific feedback on the Visualize 2045 project list for the Visualize 2050 Technical Inputs Solicitation. Staff continue to report public comments to the TPB's Technical Committee and TPB at their monthly meetings.

Continuing activities, as laid out in the UPWP, included the following: support for the Community Advisory Committee, support for the Access for All Advisory Committee, and ensuring the public involvement opportunities specified in the TPB's Participation Plan are met, such as conducting public comment periods on key documents and public comment periods at the beginning of each TPB meeting.

#### ***4.2 Communications***

The following stories were featured in TPB News and in COG news releases:

**COG approves funding to seven local projects to expand the stock of affordably priced housing near transit**

**October 11, 2023**

**TPB funds three DC area planning projects to improve access to transit**

**October 18, 2023**

**Hundreds of thousands in DC area eligible for commuter benefits today**

**October 24, 2023**

**Shorter days with less sunlight create dangerous conditions for pedestrians**

**October 25, 2023**

Staff updated pages on the COG website related to transportation including:

Enhanced Mobility, Getting Involved & Public Comment, TPB Comment Form, Access for All Advisory Committee, Community Advisory Committee, Transportation Resilience, Regional Roadway Safety, Transportation Land-Use Connections, Transit Within Reach, Local Technical Assistance Programs database, and Vibrant Communities online seminar.

**Staff completed the following in support of Task 1 Long-Range Transportation Planning:**

Completed an RFP for Visualize 2050 website and graphic design updates.  
Updated the Visualize 2050 Communications Plan.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	\$3,442,357	\$197,589	21%	55

**5. TRAVEL FORECASTING**

**5.1 Network Development**

Staff shared a memo with the State Technical Working Group (STWG) and the TPB Technical Committee providing transit network coding details from projects in the 2022 Update to Visualize 2045 and asking for updates to these details for inputs to the air quality conformity analysis of Visualize 2050.

Staff completed production of a user’s guide for the development of the base transit network, which provides step-by-step instructions on how to mine transit route data from the General Transit Feed Specification (GTFS) data and use it to update existing transit route files. The memo was shared with all team members.

Staff began preparation of a 2023 base transit network to use as the foundation for forecast-year transit networks for the air quality conformity analysis of the 2025 LRTP, known as Visualize 2050. This work includes mining of GTFS route and schedule data and collection of online schedules for transit service providers where data is not provided via GTFS.

Staff added BRT routes (Mode 10) to the 2022 base transit network for the PM and Nighttime (NT) time periods for use with the Gen3 Travel Model.

Staff continued reviewing all roads in the District of Columbia to update the number of lanes to reflect time-of-day street parking and added sidewalks that may have occurred since 2021. Staff continued to make these updates in the regional highway network database.

Staff completed the development of a base transit network based on the December 2022 inputs. Staff created a memorandum, dated October 17, that documents this work.

Staff developed an automated procedure in COGTools that performs Quality Assurance/Quality Control (QA/QC) checks on the network files exported from the Unified Network Database. Staff developed a draft memorandum, dated September 11, that documents this work. The memo is currently under internal review.

Staff reviewed and signed off on network revisions that the consultant team proposed as part of the Gen3 Model calibration and validation work. Staff plan to include these network revisions, where appropriate, into the current network database.

**5.2 Model Development and Support**

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months, so it did not meet in October. Nonetheless, staff prepared the meeting highlights for the September 22 TFS meeting and prepared the agenda for the November 17 TFS meeting.

**Generation 2/Ver. 2.4 Travel Model**

Staff recently developed the Gen2/Ver. 2.4.6 Travel Model, which is to be used for the upcoming 2025 LRTP Update. In October, staff continued to distribute the transmittal package for the model and its associated inputs in response to a series of data requests.



COG's Department of Community Planning and Services (DCPS) staff revised the draft TAZ-level, round 10.0 Cooperative Forecast data to address the issue that staff had discovered regarding the location of employment at Reagan National Airport. COG's Travel Forecasting and Emissions Analysis (TFEA) staff re-processed the draft data and re-created draft Round 10.0 land use input files for travel demand modeling. Staff developed a memorandum, dated October 11, to document this work. Staff subsequently fulfilled the pending internal/external requests for this data. [Note: As of November 7, a consultant found several anomalies in the draft TAZ-level 2020 employment data, which are currently being reviewed by DCPS staff. On November 16, COG TFEA sent an email to recipients of the draft TAZ-level Round 10 data recommending that they refrain from using the draft TAZ-level data until the investigation into the data anomalies had concluded.]

Staff started to update the exogenous model inputs, e.g., external travel and airport passenger auto driver travel, based on the draft Round 10.0 Cooperative Forecasts of land use data. In response to an external inquiry, staff discussed and decided on the estimated timeline for releasing this data. After coordinating with COG's Planning Data and Research (PDR) Team, staff also decided to develop the exogenous trip data based on the 2019 external traffic counts that are readily available.

Staff conducted travel demand model runs using the draft Round 10.0 land use inputs and compared them with production model runs with Round 9.2 land use inputs. Staff are reviewing and documenting the results.

In preparation for the 2025 LRTP Update, staff completed making changes to model code/input files to accommodate the new horizon year of 2050 in the Gen2/Ver. 2.4.6 Travel Model. In October, staff generated the airport ground-access auto-driver trip tables at the TAZ level between 2020 and 2050, inclusive, based on the Round 10.0 land use forecasts and 2019 Air Passenger Survey (APS) data. Staff also documented this work as part of a draft memorandum that documents the updating of exogenous model inputs.

Staff started to compile the observed daily vehicle-miles of travel (VMT) data for the year 2022. The data has been used to support both model development and model application activities.

#### **Generation 2/Ver. 2.4 Public Transport (PT) Travel Model**

No updates.

#### **Generation 3 Travel Model**

Regarding the consultant-assisted project to develop the TPB's next-generation travel demand forecasting model, known as the Gen3 Model, which will be an activity-based travel model (ABM) implemented in ActivitySim software:

- COG held two check-in meetings with RSG and BMG, the consultants on the Gen3 Model development project on October 10 and 24.
- Staff continued to work with RSG on the development of the Gen3, Phase 2, Model. Specifically,
  - RSG/BMG staff completed the calibration and validation of the Gen3, Phase 2, Model. COG staff reviewed and signed off on the latest model validation results, dated October 15. RSG subsequently conducted a full Gen3 Model run, dated October 21 and shared results with COG staff. RSG issued a GitHub pull request (PR) for all the recent model code changes (mostly related to model calibration/validation), which is under review by COG staff. RSG also started to work on documentation.

- Staff created a plan to replicate the calibration processes for two component models, one by COG's Model Development Group and the other by COG's Model Application Group. Staff requested related calibration working files from BMG and RSG.
- BMG completed the BMG portion of the Phase 2 sensitivity testing report that documents the findings from the Phase 2 sensitivity tests conducted by BMG/RSG. RSG reviewed the document. COG staff are in the process of reviewing this document.
- As part of the Phase 2 sensitivity testing, COG staff continued to work on two additional tests related to Autonomous Vehicles (AVs) and equity, respectively.
  - RSG reviewed the COG memorandum, dated September 9, that documents the preliminary AV testing results, and noticed that the vehicle type file was not extended for forecast years. COG staff extended the vehicle type file, reran the test, and updated the memo, dated October 17. In this memo, COG staff pointed out some unintuitive results from the test. COG staff performed QA/QC checks per RSG's suggestion and noticed a major discrepancy in the AV model implementation that could explain the unintuitive results. RSG is working to fix the issue.
  - Staff completed the equity test and started to work on the documentation. In October, the documentation was put on hold due to other work priorities.
- Staff proposed and implemented a methodology to integrate the toll setting process in the Gen3 Model flow. The preliminary testing results looked reasonable to both COG and RSG staff. Staff plan to rerun all the tests after receiving the final Gen3 Model from RSG. This is currently on hold.
- In preparation for the upcoming Gen3 Model usability evaluation, staff started to assemble model inputs for all the Visualize 2050 analysis years. Staff started to run the MWCOG Population Synthesizer to generate synthetic populations for all the analysis years.
- COG staff continued to make enhancements and bugfixes to the Gen3 Model. Specifically,
  - Staff successfully ran the Estimation Data Bundle (EDB) generation process on an on-premises modeling server, tms7 and on a cloud server.
  - M-NCPPC Montgomery County staff noticed two minor glitches in the Gen2 Model (no effects on model results). Staff fixed both issues in the Gen2 and Gen3 GitHub code repositories.
  - Staff reviewed and updated the Read Me file in a Word document; Staff plan to continue to update this file as a live document.
- Staff provided a Gen3 Model hands-on training for the Model Application Group (MAG). Staff assisted the MAG staff in their testing.

### **Software support**

Working with COG's Office of Information Technology (IT), TPB staff continued to maintain the software and hardware used to conduct travel demand forecasting and mobile emissions modeling. Hardware includes travel model servers (TMS) and mobile emissions model workstations (MEMWs) maintained at COG. Software includes Bentley Citilabs Cube, Python, Git/GitHub, R, MOVES, MySQL,

MariaDB, and a travel speed post processor, implemented in Cube, for estimation of mobile emissions.

Staff have continued to meet, conduct model tests, and work with IT staff to implement the migration of workstations and servers to the cloud. The migration of travel demand model and MOVES model servers to the Amazon Web Services (AWS) cloud began in December 2022, and it was completed in January 2023. TPB staff are continuing to conduct tests to ensure that the processes that used to be executed using the on-premises computers can now be executed in the cloud. TPB staff are continuing to back-up the files located on the on-premises servers.

### *Other activities*

Staff serviced six data requests in October: Five requests were for the draft Round 10.0 Cooperative Forecast zonal land activity files for the years 2020, 2021, 2023, 2025, 2030, 2040, 2045, and 2050. The other request was for the Round 10 Cooperative Forecast-based exogenous travel demand inputs to the Gen2/Version 2.4.6 Travel Model for all scenario years from a consultant working for MDOT SHA on an update to a re-location study for a federal agency. Two requests for the Round 10 zonal land use data were from consultants working for MDOT SHA. One request was from a consultant working for the COG High-Capacity Transit Needs-Based Planning study. One request was from a consultant working for Alexandria, VDOT, Loudoun County, and Fairfax County on a transportation impact analysis in Alexandria. One was from a consultant working for Frederick County, Maryland on an area-wide study using the COG/TPB travel model.

Staff responded to an inquiry from M-NCPPC Montgomery County staff regarding potential errors in the batch files of the regional travel model. Staff also responded to an inquiry from a consultant regarding AEMS, the mode choice model application program used in the Gen2 Travel Model.

Staff attended ActivitySim Consortium meetings regularly on Tuesdays. Staff also attended a series of ad-hoc ActivitySim Consortium partners-only meetings to discuss the scoping of Phase 9 development. Staff ranked potential Phase 9 tasks on behalf of COG and helped draft the Informal Request for Proposal (IRFP) that would be later shared with the three consultants working on the ActivitySim development work.

Staff attended a Zephyr learning session on “Equity Analysis in Travel Demand Modeling” on October 26.

Staff started to conduct daily modeling work on AWS cloud servers. Staff worked with IT to resolve issues encountered on the AWS servers. Specifically, as the Barracuda Backup Service will be discontinued in November, staff removed the data on the local drives of on-premises modeling servers that have been backed up on the cloud.

Senior staff continued to train the new employee, Bahar Shahverdi, on various work tasks.

Task 6	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$2,922,011	\$144,088	21%	59

**6. MOBILE EMISSIONS PLANNING**

**6.1 Air Quality Conformity and Other Activities Associated with the Long-Range Transportation Plan**

Staff continued to attend coordination meetings related to scheduling tasks for the 2025 update of the region’s LRTP (Visualize 2050), including the air quality conformity analysis, system performance, and environmental justice analysis. This activity also included coordination of air quality conformity timelines to synchronize with development schedules for Maintenance or Attainment State Implementation Plans (SIPs) and new Motor Vehicle Emissions Budgets (MVEBs). Staff also began identifying changes from the previous conformity analysis and prepared a draft detailed schedule of work tasks for the upcoming air quality conformity analysis of Visualize 2050 and shared the schedule with other TPB staff working on the plan update.

Staff continued to hold question-and-answer sessions for implementing agencies related to coordination of air quality conformity project inputs in the Project InfoTrak (PIT) air quality conformity project input table. Staff began reviewing the projects input into the PIT database for inclusion in the upcoming air quality conformity analysis of Visualize 2050. TPB staff worked directly with VDOT staff regarding assumptions for projects. This included researching rules in the consultation procedures and precedence in prior TPB actions. TPB staff met new staff from the District Department of Transportation (DDOT) and shared the project input table from the 2022 Update to Visualize 2045 and the 2011 memo entitled, “Defining Regional Significance for Conformity.”

In accordance with the TPB consultation procedures, staff forwarded to the consultation agencies and public advisory committees the TPB meeting agenda and a summary memo regarding the monthly TPB meeting and air quality conformity consultation elements.

**6.2 Mobile Emissions Analysis, Including Activities Associated with Climate Change Planning**

Staff from COG’s Department of Environmental Programs (DEP) and COG’s Department of Transportation Planning (TPB staff) continued to coordinate with state air agencies on the update of motor vehicle emissions budgets (MVEBs) associated with the 2008 Ozone Maintenance State Implementation Plan (SIP). This MVEB update is being conducted to ensure that the tools used to develop future air quality conformity emissions estimates are consistent with the tools used to develop the MVEBs - e.g., that both are based on the current MOVES3 model. Given that the Metropolitan Washington Air Quality Committee approved the plan in September 2023, the EPA is now expected to approve the updated 2008 Ozone Maintenance Plan with new MVEBs in the next few months. Staff prepared a memo for the Director’s report to the TPB meeting documenting the MWAQC approval action of the plan. TPB staff provided a brief progress report to the TPB Technical Committee regarding these activities (Other Business).

DEP staff also continued to evaluate the impacts of air quality monitor readings during the 2023 ozone season on our region’s ability to meet the 2015 National Ambient Air Quality Standards (NAAQS) for ozone and the region’s prospects for applying for “Exceptional Events Exemption Requests,” as many of the ozone monitor exceedances were likely due to the wildfires in Canada (MWAQC-TAC, item #5).

TPB staff continued to work with DEP staff, member jurisdictions, and state air agencies to facilitate various aspects of air quality and climate change planning activities in the region.

Staff continued to coordinate planning activities with the state departments of transportation related to the Carbon Reduction Program (CRP). This program, recently established by the Bipartisan Infrastructure Law (BIL), provides funds for projects designed to reduce on-road transportation emissions. As part of this program, each state is required to develop, by November 15, 2023, a Carbon Reduction Strategy, which should support efforts to reduce transportation emissions and identify projects and strategies to reduce these emissions. As part of the consultation process required for this activity by the new law, state DOT representatives briefed the TPB Technical Committee (item #4) and the TPB (item #8) on their progress in development of their respective Carbon Reduction Strategies.

Staff continued to monitor developments related to the Climate Pollution Reduction Grants (CPRG), established by the Inflation Reduction Act. This program provides an investment of \$5 billion to support efforts by states, municipalities, air pollution control agencies, and tribes to develop and implement strong, local greenhouse gas reduction strategies.

Staff continued to participate in electric vehicle (EV) planning activities. TPB staff and ICF staff (project consultant) held check-in meetings on the Regional Electric Vehicle Infrastructure Implementation (REVII) Strategy project and reviewed updated draft electric vehicle projections (Task 1).

To further enhance climate change planning in the region, staff continued to participate in various related activities at the national level. TPB staff participated on the Puget Sound Regional Council climate panel and exchanged experiences in climate change mitigation planning with MPO, federal government, and non-profit agency staff from other parts of the country who served on the panel. In support of the FHWA Every Day Counts (EDC) Initiative, staff attended an EDC Greenhouse Gas listening session (10/31) and met with ICF (project consultant) to discuss TPB staff participation in a virtual peer exchange.

As the version of MOVES that was last used in the air quality conformity analysis (MOVES2014b) cannot be used for these types of analyses starting with January 2023, TPB staff continued to conduct MOVES model tests using the most recent model version (MOVES3.0.4) and evaluate the impacts of new software on both criteria pollutants and greenhouse gases (GHGs). Staff also continued to evaluate a draft version of the most recent developmental MOVES model, MOVES4, and will continue to monitor model development activities related to the new tool.

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	\$5,344,964	\$80,962	8%	63

**7. TRAVEL MONITORING AND DATA PROGRAMS**

***7.1 Transportation Research and Analysis***

Staff conducted research to develop the scope for a future Household Travel Survey.

Traffic Trends

Staff worked to prepare the 2022 update of the VMT Trends Table. This included communicating with West Virginia DOT staff about a data omission in the 2022 VMT data and receiving the

corrected VMT file, requesting the 2022 DC VMT data, downloading the 2022 Maryland VMT data, and factoring and summarizing the 2022 VMT for DC, Maryland and West Virginia. In addition, staff reached out to VDOT staff to inquire about delay in the Virginia 2022 VMT data release. Staff provided the partial 2022 VMT trends file to the TFEA team.

Staff reviewed and compiled External Station traffic counts for 2020 and 2021 and provided the data to TFEA team staff.

Staff continued work to assign traffic counts to network links where counting locations no longer exist. In addition, staff continued documenting the process or adding traffic count data to the RTDC.

Staff followed up on a data request for hourly traffic data at continuous count stations directing the requestor to sources of additional information.

#### Data Requests

COG/TPB staff fielded a RTS data request from Fehr & Peers.

#### Meetings & Conferences

COG/TPB staff participated in biweekly meetings with the Gen3 Model Development Team.

### ***7.2 Data Management and Visualization Services***

Staff continued to work with TPB's bicycle and pedestrian planner to implement edits and changes that pertain to the National Capital Trail Network (NCTN) draft map. This work is ongoing.

Staff worked with TPB's resiliency consultant, ICF, to facilitate access to TPB's ArcGIS Online environment to develop an online mapping tool. Staff also created content (raster image layers) for use in the online mapping tool.

Staff reviewed and updated content for the 2024 Congestion Monitoring Process (CMP) Technical Report related to the Regional Transportation Data Clearinghouse (RTDC). Staff also provided additional comments and suggestions on how to enhance this section of the report.

Staff began to prepare for TPB/COG's GIS Day celebration event. Staff organized and created documentation and also began designing a survey and StoryMap application.

Staff continued organizing and updating TPB's online content in ArcGIS Enterprise Portal and ArcGIS Online. This work is ongoing.

Staff completed the foundational work to upgrade TPB/COG's ArcGIS software environment. Staff continue to refine business practices and workflows that leverage the additional capabilities implemented in the software upgrade.

Staff completed work to develop a custom print service to enable staff to print online map content more easily.

Staff worked with IT staff to set permissions and access to COG/TPB's spatial data.

#### *GIS Committee/GDX Working Group*

Staff began planning for the November meeting of the GIS Committee/GDX Working Group virtual meeting.

Data Requests

None.

Meetings & Conferences

Staff attended and participated in the Maryland State Geographic Information Committee (MSGIC) quarterly meeting held in College Park, MD on October 26.

Staff attended and participated in the Maryland Department of Transportation (MDOT) Sidewalk Data Collaborative Workgroup meeting held on October 3.

Staff attended an online seminar hosted by the Federal Highway Administration (FHWA) on Urban Boundary and Functional Classification update training in Maryland on October 19.

Staff attended the training online seminar "Migrating to ArcGIS Pro from ArcMap" held on October 23.

Staff attended and presented a draft map of the National Capital Trail Network at the October special meeting of the Bicycle and Pedestrian Subcommittee meeting held on October 17.

Staff attended the TPB Freight Subcommittee meeting on September 12.

Staff attended the Cooperative Forecast and Data Subcommittee meeting on October 10.

Staff participated in the recurring meeting related to Visualize 2050 planning activities on October 20.

Staff attended several additional meetings with the Plan Development and Coordination staff related to Project InfoTrak inputs and MetroQuest survey development in support of Visualize 2050.

Staff began attending the regularly scheduled meetings for the Regional Electric Vehicle Infrastructure Implementation Strategy project.

Staff participated in meetings and email exchanges with the Travel Forecasting and Emissions Analysis Program team and their contractor, RSG.

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Task 8	BUDGET	Billed this month	% Funds Expended	UPWP Page
REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION	\$1,211,231	\$43,502	20%	67

**8. REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION**

***8.1 Regional Land Use and Transportation Coordination***

During October, COG's Department of Community Planning and Services (DCPS) staff continued work on final draft of the 2022 Multi-family Rental Housing Report and presented initial findings to the Cooperative Forecasting and Data Subcommittee (CFDS) on October 10 and the Planning Directors Technical Advisory Committee (PDTAC) on October 20. Among the initial findings: in 2022, 82% of new multifamily rental units were within one of the region's 141 Activity Centers or within a half-mile

walk of one of the 199 High-Capacity Transit Stations, exceeding the target of 75% set by the COG Board in 2019. The NoMa Activity Center had 2,630 new units, the most of any Activity Center.

To assist with monitoring of the Cooperative Forecasts, staff presented an analysis of 1st quarter QCEW employment data at the October 10 CFDS meeting, noting among other findings that employment in March 2023 totaled approximately 2.92 million jobs or 99% of the March 2020 total of 2.96 million.

To address economic growth challenges, staff hosted the October 20 Planning Directors (PDTAC) meeting that focused on Regional Examples of Commercial and Economic Resiliency. Member briefings included a presentation on “The East End Small Area Plan: A Vision to Celebrate Culture & Community” by Emily Bazemore, Senior Planner, Department of Community Planning and Economic Development Services, City of Falls Church; and “Fairfax County Commercial Resiliency Through Planning: Framework for the Future” led by Tracy D. Strunk, AICP; Director, Fairfax County Department of Planning and Development, Rebecca Moudry; Director, Fairfax County Department of Economic Initiatives and Leanna Hush O’Donnell, AICP; Planning Division Director, Fairfax County Dept. of Planning and Development. The presentations elicited tremendous responses and questions from Committee members.

At the October 27 Region Forward Coalition meeting on “Sustainability”, staff hosted presentations on the Washington Metropolitan Area Transit Authority (WMATA) Solar Carport Project, led by Rachel Healy, Director, Office of Sustainability, WMATA, and a briefing on Advancing Environmental Justice in Transportation, led by Antoine Thompson, Executive Director of the Greater Washington Regional Clean Cities Coalition (GWRCCC).

To assist with monitoring the economy and the Cooperative Forecasts, during October, DCPS staff released the September 2023 REMS report which showed that, in August, over-the-year employment increased by 48,000 jobs or 1.5 percent in the Washington Metropolitan Statistical Area (MSA), while the national over-the-year employment increased by about 3.0 million jobs or 2.0 percent. Locally, the Leisure & Hospitality Sector gained 12,300 jobs and the Educational & Health Services Sector gained 23,100 jobs during the last year. (373,800 jobs were lost between March 2020 and April 2020) The Washington region has recovered 407,400 jobs between April 2020 and August 2023 – 101.0 percent recovery. The region’s inflation decreased in July to 1.8 percent from a rate of 3.1 percent in May. During August, the region’s unemployment rate increased to 2.6 percent, while the national rate increased to 3.9 percent. The 2,249 new housing units authorized during August 2023 represent a 33.4 percent decrease from August 2022, when 3,375 new units were started.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
COMPLETE STREETS, MOBILITY AND ENHANCEMENT PROGRAMS	\$1,135,269	\$23,129	11%	69

**9. COMPLETE STREETS, MOBILITY AND ENHANCEMENT PROGRAMS**

***9.1 Enhanced Mobility Grant Program***

TPB staff prepared for the selection process, including identifying and inquiring to local and national experts in the human services transportation field to be a part of the independent selection committee. Staff finalized the Selection Committee, began compiling application materials, creating



summaries, and providing the materials to committee members to support their review of applications. TPB Staff prepared for the Selection Committee meeting to occur in early-November and begin the process for selecting applications for award.

### ***9.2 Regional Roadway Safety Program.***

TPB staff issued Task Order awards and Notices to Proceed to consultants to begin work on seven out of the eight FY 2024 approved projects.

### ***9.3 Transportation Alternatives Set-Aside Program***

Staff began to prepare for the upcoming project selection process for Virginia (applications expected at the end of November) and monitored follow-up with MDOT for the FY 2024 project selections, which the TPB approved in July.

### ***9.4 Transportation/Land-Use Connections (TLC) Program***

Work on all the FY 2024 TLC projects was underway. See below:

- Alexandria - South Pickett Street Corridor Improvements Study – The project kickoff meeting occurred on October 11. Initial tasks for the project got underway.
- Falls Church - East-West Ped/Bike Connection - The project kickoff meeting occurred on October 18. Initial tasks for the project got underway.
- Frederick, City of - East Street Redesign 30% Design - The project kickoff meeting occurred in September. Throughout October, data collection activities were underway.
- Gaithersburg - SRTS Priority Improvements Study - The project kickoff meeting occurred on October 10. Initial tasks for the project got underway.
- Montgomery County - Flex Microtransit Post-COVID Planning Study - The project kickoff meeting occurred on October 19. Initial tasks for the project got underway.
- Prince George's County - Bus Stop Safety & Accessibility Study - The project kickoff meeting occurred on October 11. Initial tasks for the project got underway.
- Prince William County - Green Infrastructure Study - The project kickoff meeting occurred on October 9. Initial tasks for the project got underway.
- Prince William County - Yorkshire Multimodal Corridor Planning Study - The project kickoff meeting occurred on October 23. Initial tasks for the project got underway.
- Rockville - Mannakee Street Complete Streets Feasibility Study - The project kickoff meeting occurred on October 23. Initial tasks for the project got underway.
- Takoma Park - Laurel Avenue Street Closure Traffic Study - The project kickoff meeting occurred on October 4. Initial tasks for the project got underway.

Staff have planned a webinar, scheduled for November 2, that would feature presentations on last fiscal year's TLC projects and projects from the Regional Roadway Safety Program (RRSP).

Staff began to prepare for the next solicitation for TLC and RRSP, which will be conducted between January 5 and March 8, 2024.

Staff began the process to recruit an intern to assist with the TLC and RRSP programs between January and June of 2024.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB MANAGEMENT AND SUPPORT	\$1,707,259	\$65,999	17%	71

**10. TPB MANAGEMENT AND SUPPORT**

Transportation Planning Board Committee Support and Management

This task includes activities not attributable to specific tasks in the work program but provides overall support for and management of the TPB and UPWP related activities.

- Provide administrative arrangements (such as preparation and distribution of meeting materials) and staff support for TPB and its various Committees, Sub-Committees, Task Forces and special TPB work groups meetings.
- Respond to requests from TPB members, federal agencies, Congressional offices, media and others for information or data of a general transportation nature
- Meet with TPB Board members and participating agency staff to discuss current and emerging regional transportation planning issues.
- Participate in meetings of other agencies whose programs and activities relate to and impact the TPB work program.
- Coordination of TPB Planning Activities with Program Directors day-to-day management of and allocation of staff and financial resources.
- Monitoring of all work program activities and expenditures.

Staff support was provided for the monthly meetings of the following committees and subcommittees:

- State Technical Working Group (STWG)
- TPB Technical Committee
- TPB Steering Committee
- MWCOG Board meetings
- Transportation Planning Board (TPB)
- MATOC Steering Committee
- TPB Community Advisory Committee (CAC)
- Access for All (AFA)
- Regional Public Transportation Subcommittee (RPTS)
- Bicycle & Pedestrian Subcommittee
- COG Planning Directors
- TPB Freight Subcommittees
- CAOs Monthly
- System Performance Operation & Technology Subcommittee (SPOTS)

The Staff Director gave overall program management oversight into all the Department’s activities. Work activities the Director was involved in during the month of October FY 2023 includes:

- Discussions, review, and finalization of the agenda topics for the TPB’s Technical Committee, State Transportation Working Group (STWG) and Board meetings. This includes meeting with the Program Directors and project staff to review the progress and briefing materials for the Program Directors and project staff to review the progress and briefing materials.
- Participation in the STWG, TPB Technical, TPB Steering Committee, TPB’s Citizen’s Advisory Committee and the TPB Board Meetings.

Other additional activities for the TPB Staff Director for the month of October FY 2023 includes Telephone / Web Ex / Microsoft Teams Communications:

- COG/GW Community Foundation
- NVTC / COG Touch Base – K. Mattice
- COG’s Work on WMATA Funding
- Senior Staff Senior Retreat
- COG CAO WMATA Cost Structure Work Group
- TPB Panel Discussion – M. Douglas
- HNTB Corp. - L. Boyagian
- WMATA Operating Funding
- Planning Directors Meeting
- Street Smart Kick-off – Vienna Metro Station
- COG Congressional Delegation Reception – Senate Office Building
- Region Forward Coalition Meeting
- COG CAO WMATA Cost Structure Work Group
- Eno Center for Transportation – R.Puentes

**UPWP**

The UPWP activities include:

- Supervise the preparation, negotiation, and approval of the annual work program and budget involving the State Transportation Agencies, the TPB Technical Committee, the TPB Steering Committee and the TPB.
- Preparation of monthly UPWP progress reports for each of the state agencies administering planning funding and prepare all necessary federal grant applications submissions.
- Review all monthly UPWP invoices going to each of the state agencies administering planning funding.

Task 11	BUDGET	Billed this month	% Funds Expended	UPWP Page
TECHNICAL ASSISTANCE	\$2,215,511	\$5,404	1%	73
District of Columbia	\$330,930	\$0	0%	73
Maryland	\$707,967	\$0	0%	75
Virginia	\$664,437	\$5,404	1%	77
Regional Transit	\$512,177	\$0	0%	79

**11. TECHNICAL ASSISTANCE**

***11.A District of Columbia***

1. Program Development, Data Requests and Miscellaneous Services

No activity.

2. Regional Safety Program

As part of the Regional Safety Program, technical assistance projects were partially funded under the District of Columbia Technical Assistance Program. See Regional Safety program section of this progress report for more details.3. Transportation / Land Use Connections Program

Although the FY 2024 UPWP identifies this subtask for support for the Transportation Land-Use Connections (TLC) Program, no TLC projects are being funded in FY 2024 through this subtask. As a result, this subtask is identified in the progress report as a placeholder to align with the UPWP document, however, no activity is anticipated during FY 2024.

### 3. Transportation / Land Use Connections Program

Although the FY 2024 UPWP identifies this subtask for support for the Transportation Land-Use Connections (TLC) Program, no TLC projects are being funded in FY 2024 through this subtask. As a result, this subtask is identified in the progress report as a placeholder to align with the UPWP document, however, no activity is anticipated during FY 2024.

### 4. Other Tasks to Be Defined

No activity.

## ***11.B Maryland***

### 1. Program Development, Data Requests, and Miscellaneous Services

No activity.

### 2. Project Planning, Feasibility, and Special Studies

No activity.

### 3. Transportation / Land Use Connections Program

As part of the Transportation Land-Use Connections Program, four technical assistance projects in Maryland were fully or partially funded under this PE number. The projects were completed on time and within budget by the end of the fiscal year. See TLC item above (9.3) for further details about the TLC Program.

### 4. Regional Safety Program

As part of the Regional Safety Program, technical assistance projects were partially funded under the Maryland Technical Assistance Program. See Regional Safety program section of this progress report for more details.

### 5. Other Tasks to be defined

No activity.

## ***11.C Virginia***

### 1. Program Development, Data Requests, and Miscellaneous Services

No activity.

### 2. Travel Monitoring and Survey

The consultant began data collection for the FY2024 VDOT I-66/I-395 Mode Share Study.

After receiving the price quote for the I-66 Outside the Beltway Mode Share Study Add-on, staff reached out to VDOT staff to discuss the budget for the consultant and for COG/TPB staff and reprogrammed some FY24 Technical Assistance funds to conduct this additional work.

The consultant completed collecting the fall 2023 active transportation counts.

Staff analyzed the data from the spring 2023 active transportation counts and compared those counts with 2016 counts taken at several of the same locations. Staff met with VDOT staff to

discuss the processing of the data from one location where unexpected movements were observed. Staff began to draft the spring 2023 Active Transportation Report.

### e3. Travel Demand Modeling

No activity.

### 4. Transportation / Land-Use Connections Program

As part of the Transportation Land-Use Connections Program, three technical assistance projects in Virginia were fully or partially funded under this PE number. The projects were completed on time and within budget by the end of the fiscal year. See TLC item above (9.3) for further details about the TLC Program.

### 5. Regional Safety Program

As part of the Regional Safety Program, technical assistance projects were partially funded under the Virginia Technical Assistance Program. See Regional Safety program section of this progress report for more details.

### 6. Other Tasks to be Defined

No activity.

## ***11.D Regional Transit***

### 1. Program Development, Data Requests, and Miscellaneous

No activity.

### 2. Transit Within Reach

The selection panel for the FY 2024-2025 TWR round of projects met on August 30 and in September, tentatively recommended three projects for funding. Staff presented the recommendations to the TPB Technical Committee on October 6. The TPB approved the recommendations on October 18.

Staff conducted “getting started” meetings with all project recipients and notified and debriefed unsuccessful applicants. Staff also initiated the consultant procurement process by sending questionnaires to consultants to determine their level of interest in bidding on their new projects.

### 3. High-Capacity Transit Map

No activity.

### 4. Other Tasks to be Defined

No activity.

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## **CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM**

### Program Management

- COG/TPB staff has updated the monthly enplanement data.
- Staff continued screening resumes/applications for a data analyst recruitment to support the CASP program.

### Conduct and Process 2022/23 Baltimore-Washington Regional Air Passenger Survey (APS)

- COG/TPB staff coordinated with MAA/MWAA staff to finalize logistical preparations for the 2023 APS full-scale survey for all three airports (BWI, DCA, IAD).

- COG/TPB staff coordinated with the APS contractor to finalize logistical preparations for the 2023 APS full-scale survey for all three airports (BWI, DCA, IAD).
- COG/TPB staff attended and provided oversight on the 2023 APS full-scale operations classroom training (October 3) and airport on-site training at BWI, DCA, and IAD on October 4 and 5.
- COG/TPB staff observed field operations at BWI, DCA, and IAD during the 2023 APS full-scale survey from October 8 through October 21.
- COG/TPB staff monitored the flight data reported by field staff during the 2023 APS full-scale survey to determine which flights needed to be resurveyed.
- COG/TPB staff provided a list of flights to be resurveyed during the resurvey period from October 25 through October 31.
- COG/TPB staff conducted weekly check-in meetings with ICF, the APS contractor.

Air Cargo Element Update

- No Activity.

Ground Access Travel Time Study

COG/TPB staff continued working on the Ground Access Travel Time (GATT) study and prepared summaries of tabulations and figures.

## **PROGRESS ON PLAN PRODUCTS**

### **Task 5. Travel Forecasting**

1. Staffing the TPB Travel Forecasting Subcommittee (TFS). In FY 24, as of now, the TFS has met on the following dates: 7/21/23 and 9/22/23.
2. A series of highway and transit networks used by the regional travel demand forecasting model, together with technical documentation, for use in air quality conformity analyses, development of air quality state implementation plans (SIPs), scenario studies, and model development.
  - a. Completed development of a new base transit network, reflecting transit network service in December 2022. This included the update of rail service for four time-of-day periods. Staff developed an internal user's guide regarding developing base transit networks. Staff developed an automated procedure in COGTools that performs Quality Assurance/Quality Control (QA/QC) checks on the network files exported from the Unified Network Database.
  - b. Updates to networks files
    - i. Gen3 Model networks
      1. Staff updated the capacities of road links on two regional screenlines in DC (screenlines #2 and #4) to account for roadside parking in DC. This was done in the 2018 and 2045 networks.
  - c. COGTools software and geodatabase
    - i. Staff developed an automated procedure in COGTools that performs Quality Assurance/Quality Control (QA/QC) checks on the network files exported from the Unified Network Database. The new procedure is being updated, based on staff feedback, and documented.
3. Development, maintenance, support, and improvement of the COG/TPB regional travel demand forecasting methods, including both the production-use and developmental travel models, and associated documentation.
  - a. Gen2/Ver. 2.4 Travel Model
    - i. Staff developed the Gen2/Ver. 2.4.6 Travel Model, which is to be used for the upcoming 2025 LRTP. Staff prepared a transmittal package for the model in July.
    - ii. COG's Travel Forecasting and Emissions Analysis (TFEA) staff processed the draft Round 10, TAZ-level Cooperative Forecast socio-economic data for travel demand modeling, which includes interpolating the data (from five-year increments to annual increments) and applying the jurisdiction-level employment definition factors to the zone-level data, to ensure that a consistent definition of employment is used throughout the modeled area. Due to some anomalies found in the TAZ-level data, a revised version of the draft data will likely be released in December.
  - b. Gen3, Phase 1 Travel Model: Completed in FY 23.
  - c. Gen3, Phase 2 Travel Model
    - i. Sensitivity tests
      1. Proof of concept test of the autonomous vehicle (AV) model: COG staff conducted a model run for the 2045 baseline scenario, set up the calibration process, and adjusted the AV targets by income segment.
      2. Proof of concept test of conducting equity analyses: Staff conducted model runs for the 2018, 2045 No Build, and 2045 Build scenarios. Staff started to generate the equity indicator summary tables for the three scenarios.

- ii. COG staff developed a Python based view-from-space (VFS) summary script.
  - iii. Per request from RSG, COG staff conducted a re-review of the draft Gen3 Model User's Guide and provided feedback in July.
  - d. Travel model-related data requests: This fiscal year, staff have responded to 21 data requests.
4. Keep abreast of best practices in travel demand modeling.
- a. Staff following developments from the Transportation Research Board (TRB) and the U.S. DOT Travel Model Improvement Program (TMIP) email distribution list.
  - b. Modeling staff attended the regular Tuesday and Thursday ActivitySim Consortium meetings. The consortium includes 11 public-sector agencies, including MPOs and DOTs.
  - c. Staff attended the Association of Metropolitan Planning Organizations (AMPO) Annual Conference in Cleveland, Ohio from September 26 to 28, which covered topics in travel demand modeling, climate change planning, and equity analysis.

### **Task 6. Mobile Emissions Planning**

1. Activities related to conducting regional air quality conformity analyses, such as conducting runs of the travel model and mobile emissions model and preparing technical documentation.
  - a. Staff continued to attend coordination meetings related to scheduling tasks for the 2025 update of the region's LRTP (Visualize 2050), including the air quality conformity analysis, system performance, and environmental justice analysis.
  - b. Staff communicated with VDOT regarding whether specific projects are "regionally significant" for the purposes of air quality conformity.
2. Keep abreast of federal requirements related to air quality conformity determinations and the EPA's Motor Vehicle Emission Simulator (MOVES) software.
  - a. Staff attended MOVES4 webinars hosted by the EPA in July and September.
  - b. Staff continued to conduct test runs of both MOVES3 and MOVES4 and continued to monitor model development activities related to the MOVES model.
3. Support development of an Attainment/Maintenance State Implementation Plans (SIPs) regarding the 2008 and 2015 ozone National Ambient Air Quality Standards (NAAQS), including developing inventories of on-road mobile emissions for volatile organic compounds (VOC) and nitrogen oxides (NOx).
4. Coordinate with MWAQC and its subcommittees to support development of new motor vehicle emissions budgets (MVEBs), if needed, to address requirements of 2008 and 2015 ozone NAAQS.
  - a. Staff continued to attend coordination meetings, including MWAQC and MWAQC-TAC.
5. Climate Change Planning: Provide support for efforts to mitigate climate change due to the on-road transportation sector.
  - a. Staff continued to coordinate planning activities with the state departments of transportation related to the Carbon Reduction Program (CRP). This program, recently established by the Bipartisan Infrastructure Law (BIL), provides funds for projects designed to reduce on-road transportation emissions.
  - b. Staff continued to participate in electric vehicle (EV) planning activities. DEP staff and TPB staff held internal planning meetings for the Regional Electric Vehicle Deployment (REVD) Working Group. TPB staff and ICF staff (project consultant) presented an overview of the Regional Electric Vehicle Infrastructure Implementation (REVI) Strategy project at the July REVD meeting.
  - c. Staff attended two EPA webinars related to the CPRG ("Programs, Tools, and Resources Used for Evaluation and Quantification of GHG Reduction Measures" on



August 2 and “The Landscape of Measure-level GHG Quantification in Existing Climate Action Plans” on August 9).

6. Air-quality-related data requests: This fiscal year, staff have responded to seven air-quality-related data requests.
7. Joint letter: Bonds, Anita, Chair, Metropolitan Washington Air Quality Committee (MWAQC), Takis Karantonis, Chair, Climate Energy and Environment Policy Committee (CEEP), Reuben Collins, Chair, National Capital Region Transportation Planning Board (TPB). Letter to Ann E. Carlson and National Highway Traffic Safety Administration. “Support for the Proposed Rule to Establish Corporate Average Fuel Economy Standards for Passenger Cars and Light Trucks for Model Years 2027–2032 and Fuel Efficiency Standards for Heavy-Duty Pickup Trucks and Vans for Model Years 2030–2035; Docket ID No. NHTSA–2023–0022,” September 27, 2023.

## **Task 7. Travel Monitoring and Data Programs**

### 7.1 Transportation Research and Analysis

- Presentations, visualizations, and information reports on travel monitoring and travel trends analyses
  - Ongoing
- Recommendations, workplan, and documentation of initial activities for ongoing Regional Travel Survey.
  - Ongoing
- Recommendations, workplan, and documentation of initial activities for Regional Transit Onboard Survey activities
  - Ongoing, including consulting with TPB Committees
- Workplan and documentation of activities for inter-city bus and rail survey.
  - Ongoing
- Recommendations, workplan, and documentation of initial activities for Regional Bike Count Program along Regional Network
  - Ongoing
- Technical Support
  - Ongoing

### 7.2 Data Management and Visualization Services

- Data management plan recommendations and documentation
  - Ongoing
- Travel monitoring datasets to support PBPP and Gen3 modeling requirements
  - Ongoing
- Travel trends and dashboard and visualizations
  - Ongoing
- Technical reports/memoranda
  - Ongoing, as needed.
- Presentations
  - Ongoing, as needed.

**Task 8. Regional Land Use and Transportation Planning Coordination**

**8.1 Regional Land Use and Transportation Planning Coordination**

- Analysis of Activity Center and High-Capacity Transit Station area historic trends and forecasts
  - Ongoing
- Presentations, visualizations, and information reports
  - Ongoing
- Workplan and documentation of initial activities for updating Regional Activity Centers Map
  - Under development
- Updated Cooperative Forecasting land activity forecasts and documentation, if necessary
  - Concluding Round 10. Need to update Round 10 not yet determined.
- Technical support
  - Ongoing
- Annual Baseline Employment Guidance
  - Work to commence later in fiscal year.

**CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM**

- Conduct and Process 2023 Washington-Baltimore Regional Air Passenger Survey
  - Ongoing
- Air Cargo Element Update
  - Not started.
- Ground Access Travel Time Study
  - Ongoing
  - Ongoing

FY 2024 TRANSPORTATION PLANNING BOARD  
COG/TPB BUDGET EXPENDITURE SUMMARY  
October 2023

	DC, MD and VA	FUNDS EXPENDED	BILLED	% FUNDS EXPENDED
	FTA, FHWA and LOCAL		THIS	
	BUDGET TOTAL		MONTH	
<b>1. Long-Range Transportation Planning</b>				
Long - Range Transportation Planning	1,136,668.51	284,440.19	57,815.98	25%
<b>Subtotal</b>	<b>1,136,668.51</b>	<b>284,440.19</b>	<b>57,815.98</b>	<b>25%</b>
<b>2. Transportation Improvement Program</b>				
Transportation Improvement Program	353,708.82	62,705.33	14,043.35	18%
TIP Database Support	230,000.00	75,685.	75,685.	33%
<b>Subtotal</b>	<b>583,708.82</b>	<b>138,390.33</b>	<b>89,728.35</b>	<b>24%</b>
<b>3. Planning Elements</b>				
Congestion Management Process	833,870.74	134,022.78	25,658.25	16%
Systems Performance, Ops & Tech Planning	430,355.33	106,353.88	29,631.32	25%
Transportation Emergency Preparedness Planning	139,196.00	36,843.86	7,352.06	26%
Transportation Safety Planning	407,497.86	35,180.72	8,394.18	9%
Bicycle & Pedestrian Planning	198,851.96	49,331.9	10,861.12	25%
Regional Public Transportation Planning	573,566.35	139,775.37	53,993.58	24%
Freight Planning	396,491.66	52,577.62	11,808.57	13%
Metropolitan Area Transportation Operation Coord Program Planning	171,139.72	25,000.85	6,163.67	15%
Performance-Based Planning & Programming	216,047.96	37,360.85	9,400.45	17%
Resilience Planning	538,120.51	93,865.89	16,090.43	17%
<b>Subtotal</b>	<b>3,905,138.09</b>	<b>710,313.72</b>	<b>179,353.63</b>	<b>18%</b>
<b>4. Public Participation</b>				
Public Participation	753,904.21	223,904.9	61,770.46	30%
<b>Subtotal</b>	<b>753,904.21</b>	<b>223,904.9</b>	<b>61,770.46</b>	<b>30%</b>
<b>5. Travel Forecasting</b>				
Network Development	1,173,454.94	303,329.5	63,164.95	26%
Model Development	2,268,902.50	431,240.04	134,424.11	19%
<b>Subtotal</b>	<b>3,442,357.44</b>	<b>734,569.54</b>	<b>197,589.06</b>	<b>21%</b>
<b>6. Mobile Emissions Planning</b>				
Air Quality Conformity	1,221,950.95	282,215.56	63,455.6	23%
Mobile Emissions Analysis	1,700,061.94	345,596.08	80,632.95	20%
<b>Subtotal</b>	<b>2,922,012.89</b>	<b>627,811.64</b>	<b>144,088.55</b>	<b>21%</b>
<b>7. Travel Monitoring and Data Programs</b>				
Research & Analysis	4,458,336.48	225,206.5	52,059.74	5%
Data Visualization & Management	886,626.84	180,353.62	28,902.62	20%
<b>Subtotal</b>	<b>5,344,963.32</b>	<b>405,560.12</b>	<b>80,962.36</b>	<b>8%</b>
<b>8. Planning Scenarios and Socioeconomic Forecasting</b>				
Socioeconomic Forecasting	1,211,231.11	243,978.21	43,502.13	20%
<b>Subtotal</b>	<b>1,211,231.11</b>	<b>243,978.21</b>	<b>43,502.13</b>	<b>20%</b>
<b>9. Complete Street Mobility and Enhancement Programs</b>				
Transportation and Land Use Connections Program	622,450.01	73,741.58	10,961.06	12%
Enhanced Mobility Grant Program	97,904.69	32,962.09	8,321	34%
Transportation Alternatives Set-Aside Programs	37,912.20	17,494.11	2,186.9	46%
Regional Roadway Safety Program	377,004.84	6,015.38	1,660.51	2%
<b>Subtotal</b>	<b>1,135,271.74</b>	<b>130,213.16</b>	<b>23,129.47</b>	<b>11%</b>
<b>10. TPB Support and Management</b>				
TPB Support and Management	1,707,259.82	295,577.39	65,999.81	17%
<b>Subtotal</b>	<b>1,707,259.82</b>	<b>295,577.39</b>	<b>65,999.81</b>	<b>17%</b>
<b>Core Program</b>	<b>22,142,515.95</b>	<b>3,794,759.2</b>	<b>943,939.8</b>	<b>17%</b>
<b>A. District of Columbia Technical Assistance</b>				
Program Development & Misc.	330,931.43	0	0	0%
<b>B. Maryland Technical Assistance</b>				
Program Development & Misc.	707,968.41	0	0	0%
<b>C. Virginia Technical Assistance</b>				
Program Development & Misc.	664,436.05	21,662.59	5,404.01	3%
<b>D. Public Transit Technical Assistance</b>				
Program Development & Misc.	512,176.17	0	0	0%
<b>Technical Assistance</b>	<b>2,215,512.06</b>	<b>21,662.59</b>	<b>5,404.01</b>	<b>1%</b>
<b>TPB Grand Total</b>	<b>24,358,028.01</b>	<b>3,816,421.79</b>	<b>949,343.81</b>	<b>16%</b>

FINANCIAL STATUS OF TECHNICAL ASSISTANCE  
October 2023  
SUPPLEMENT 1

	TOTAL		FTA/STA/LOCAL		PL FUNDS/LOCAL	
	AUTHORIZED	TOTAL	AUTHORIZED	FTA	AUTHORIZED	FHWA
	BUDGET	EXPEDITURES	BUDGET	EXPENDITURES	BUDGET	EXPENDITURES
<b>A. District of Columbia Technical Assistance</b>						
Program Development, Data Requests, & Misc	14,999.52	0.00	442.54	0.00	14,556.98	0.00
Regional Roadway Safety Program	30,000.00	0.00	885.11	0.00	29,114.89	0.00
Transportation/Land Use Connections Program	0.00	0.00	0.00	0.00	0.00	0.00
TBD	285,931.91	0.00	8,436.08	0.00	277,495.83	0.00
<b>Subtotal</b>	<b>330,931.43</b>	<b>0.00</b>	<b>9,763.74</b>	<b>0.00</b>	<b>321,167.69</b>	<b>0.00</b>
<b>B. Maryland Technical Assistance</b>						
Feasibility/Special Studies	25,001.54	0.00	737.64	0.00	24,263.90	0.00
Program Development & Misc	14,999.52	0.00	442.54	0.00	14,556.98	0.00
Planning Studies	185,000.00	0.00	5,458.20	0.00	179,541.80	0.00
TBD	172,967.35	0.00	5,103.19	0.00	167,864.16	0.00
Transportation Performance Measures	310,000.00	0.00	9,146.18	0.00	300,853.82	0.00
<b>Subtotal</b>	<b>707,968.41</b>	<b>0.00</b>	<b>20,887.76</b>	<b>0.00</b>	<b>687,080.65</b>	<b>0.00</b>
<b>C. Virginia Technical Assistance</b>						
Program Development & Misc	14,999.52	565.82	442.54	16.69	14,556.98	549.13
MARC - VRE Runthrough - VA	185,000.00	0.00	5,458.20	0.00	179,541.80	0.00
Sub Regional Plan Studies	0.00	36.00	0.00	1.06	0.00	34.94
TBD	39,436.96	0.00	1,163.54	0.00	38,273.42	0.00
Transportation/Land Use Connection Program	185,000.00	0.00	5,458.20	0.00	179,541.80	0.00
Travel Demand Modeling	14,999.52	0.00	442.54	0.00	14,556.98	0.00
Travel Monitoring	225,000.05	21,043.87	6,638.36	620.87	218,361.69	20,423.00
VA Other Tasks	0.00	16.90	0.00	0.50	0.00	16.40
<b>Subtotal</b>	<b>664,436.05</b>	<b>21,662.59</b>	<b>19,603.39</b>	<b>639.13</b>	<b>644,832.66</b>	<b>21,023.46</b>
<b>D. WMATA</b>						
Program Development & Misc	14,999.52	0.00	14,999.52	0.00	0.00	0.00
Regional HCT Graphic/Map	90,000.00	0.00	90,000.00	0.00	0.00	0.00
TBD	157,176.65	0.00	157,176.65	0.00	0.00	0.00
Transit Within Reach Solicitation	250,000.00	0.00	250,000.00	0.00	0.00	0.00
<b>Subtotal</b>	<b>512,176.17</b>	<b>0.00</b>	<b>512,176.17</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Grand Total</b>	<b>2,215,512.06</b>	<b>21,662.59</b>	<b>562,431.06</b>	<b>639.13</b>	<b>1,653,081.00</b>	<b>21,023.46</b>