FY 2024

National Capital Region
Transportation Planning Board

Work Program Progress Report
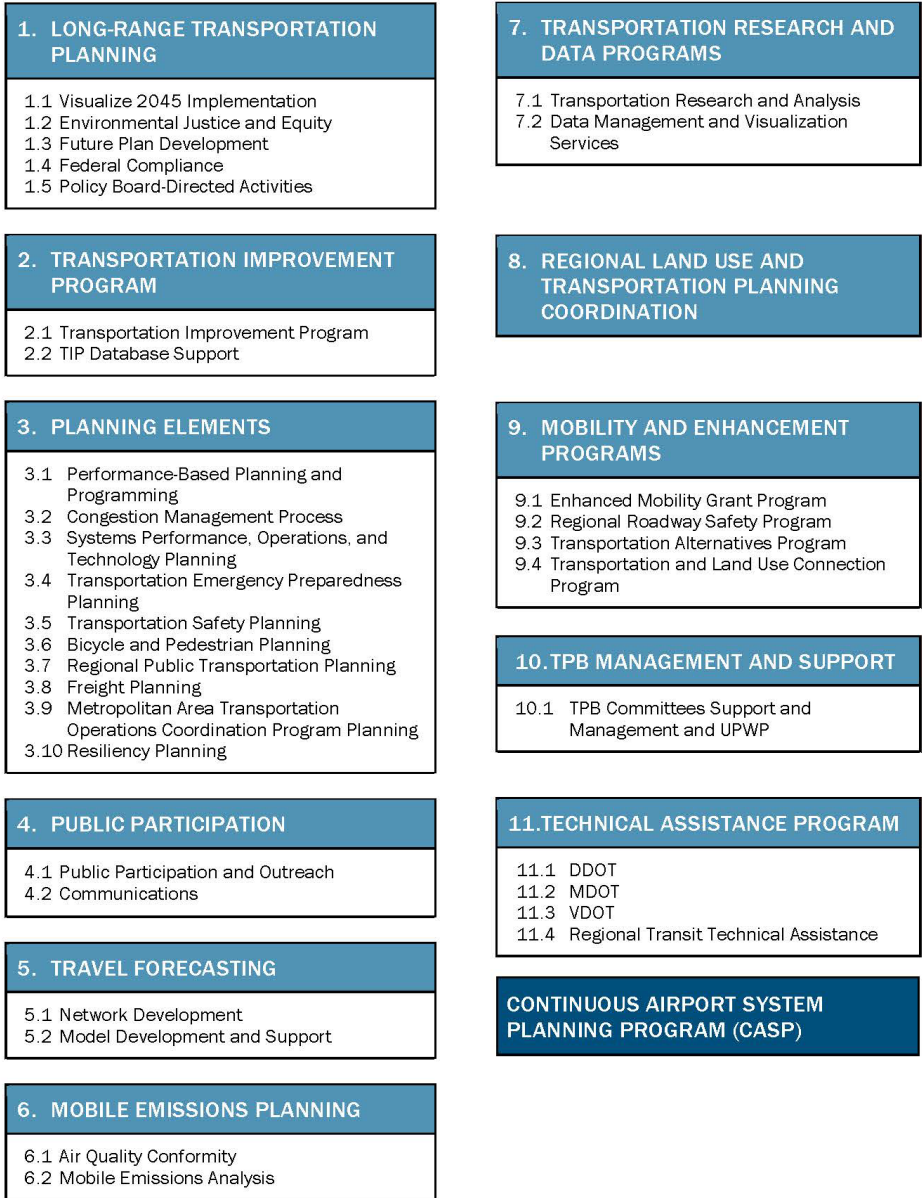**September 2023**
FY 2024

The TPB approved its FY 2024 Unified Planning Work Program (UPWP) in March 2023. The TPB Work Program Progress Report summarizes each activity for September. 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.

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Task 1	BUDGET	Billed this month	% Funds Expended	UPWP Page
LONG RANGE TRANSPORTATION PLANNING	$1,136,668	$84,741	20%	41

1. LONG-RANGE TRANSPORTATION PLANNING
Task 1.1 – Visualize 2045 Implementation
Staff wrote a proposal for internal review clarifying the work to be undertaken by various staff on the assessment of the implementation status of three aspirational initiatives. In addition to the three scoped for analysis, work is ongoing to assess progress on the aspirational initiative to complete the national capital trail network.

Task 1.2 – Environmental Justice and Equity
No activities to report.

Task 1.3 – Future Plan Development
Staff coordinated with EcoInteractive on a weekly basis regarding updates to the database being used for project inputs. Staff prepared for internal coordination of PIT inputs review. Staff prepared for and held the monthly 2050 internal team meeting including updating the working schedule and status of activities. Staff worked on a presentation for the October Technical Committee meeting summarizing the public input on key projects being considered for inclusion in the 2050 plan. Staff continued to work with Metroquest to learn the survey tools for use in the next public comment period.

Staff continued reviewing the 2045 plan's content highlighting plan vs. process information for use in establishing content for the 2050 plan. Staff worked on a draft RFP for graphic design of the website update and printed plan. Staff solicited bids for a 2050 logo update. Staff continued progress briefings at STWG and Technical Committee meetings. Staff attended the AMPO Annual Conference in Cleveland, OH to learn about best practices and gather ideas for the 2050 plan.

Staff briefed the September Technical Committee on the initial financial analysis for Visualize 2050. Coordination on financial inputs for the PIT continued.

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	$18,181	8%	43

2. TRANSPORTATION IMPROVEMENT PROGRAM
2.1 – Transportation Improvement Program (TIP)
The committee reviewed and approved three resolutions approving amendments to the FY 2023-2026 Transportation Improvement Program (TIP) as requested by the District, Maryland, and Virginia Departments of Transportation (DDOT, MDOT, and VDOT), as described below:

- TPB SR3-2024 – requested by DDOT to add $38.4 million for one new project, the New York Avenue Bridge, NE over CSX Railroad and to reprogram funds on 45 other existing TIP project or program records, resulting in a net reduction of approximately $4438.4 million to the 4-year program total of the TIP. The new bridge project does not increase capacity on the facility and is exempt from the air quality conformity requirement, and the other 45 projects and programs are either already included in the most recently approved conformity analysis or are exempt from the conformity requirement.
- TPB SR4-2024 – requested by MDOT to add $667,000 for a new study on an Area of Persistent Poverty in Prince George's County, and $31.25 million for Prince George's County Bus and Bus Facilities Competitive Lo-No capital investment to acquire 20 new zero-emissions buses and supporting infrastructure.
- TPB SR5-2024 – requested by VDOT to add $7.9 million to two roadway projects – Fairfax County Parkway Widening (Southern Segment) and Conner Drive Extension and Roundabout – and $250.9 million for Virginia State-Supported AMTRAK Operations and DASH Electric Bus Charging Infrastructure into the FY 2023-2026 TIP, and to add $102.8 million to the Fairfax County Parkway Widening (Northern Segment) and $17.5 million to the DASH Fleet Replacement program, both of which were already included in the TIP. The three roadway projects were all included in the Air Quality Conformity Analysis of the Visualize 2045, 2022 Update and the FY 2023-2026 TIP. The AMTRAK Operations and DASH infrastructure and bus replacement programs are exempt from the air quality conformity requirement.

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 September under the baseline maintenance and support contract included:
- Adding a link to the TIS Instructional Guide on the Project InfoTrak landing page dashboard (Complete).
- Implementing logic for when mapping is required based on the key changing from Primary Project Type to System/Location fields (In Progress)

Addition of Conformity records to projects that were carried over to 50-00 and 26-00 Adoptions with missing conformity data.

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 September under the professional services contract included:
- Updating new values in the Primary Project Type (Partially Complete/In Progress)
- Update Public Site map to have new Primary Project Types on the Interactive Map
- Update response options for Question 43 and wording of Question 44a (In Progress)
- Programming the addition of a cover page for reports that contains a description of any filters used to generate the report (deferred)

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	$3,905,138	$213,090	14%	45

3. PLANNING ELEMENTS

3.1 Performance-Based Planning
Staff contacted State DOTs and applicable transit agencies to request data for the annual Highway Safety and Transit Safety performance measures.

Staff attended the quarterly VDOT-OIPI-MPO meeting.

3.2 Congestion Management Process
The September 21, 2023 Vehicle Probe Data Users Group Virtual Workshop on the Probe Data Analytics Suite Bottlenecks Analyzer Tool was organized and conducted, providing hands-on experience for participants in using the tool for transportation planning and analysis.

Staff continued CMP data compilation and analysis for upcoming quarterly reports.

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
Staff prepared for future meetings of the R-ESF 1 Transportation Emergency Preparedness Committee.

3.5 Transportation Safety Planning
The Transportation Safety Subcommittee met on September 7, 2023. The meeting agenda included a briefing about the District of Columbia's safety efforts by the District Department of Transportation (DDOT) staff, a briefing about upgrades to Montgomery County's streetlight standards by County staff, and updates from TPB staff about this year's National Capital Region highway safety targets.

3.6. Bicycle and Pedestrian Planning
The September 17, 2023 meeting of the Bicycle and Pedestrian Subcommittee was organized and conducted. The Subcommittee was briefed on the National Capital Trail Network draft interactive map, the Loudoun County Sidewalk and Trail Equity Study, and the Washington Area Bicyclist Association Trail Ranger program.

Staff worked with TPB member agencies to make corrections and updates to the draft National Capital Trail Network in response to agency questions about the interactive map.

3.7 Regional Public Transportation Planning
The Regional Public Transportation Subcommittee met virtually in September. The theme of the meeting was national transit fare and equity programs, with panel speakers from RTD Denver, Albuquerque Ride Transit, SEPTA Philadelphia, and MBTA Boston. TPB staff also provided briefings on the 2022 State of Public Transportation Report and on annual PBPP transit safety target development.

Staff worked to finalize the 2022 State of Public Transportation Report, an overview of which was briefed at the September Technical Committee meeting. 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 JCC meetings and the monthly NVTC MAC meeting. Staff also conducted financial analysis and attended multiple meetings as the region considers future funding for WMATA.

3.8. Freight Planning
The Freight Subcommittee met on September 12, 2023. The meeting agenda included a briefing about the District of Columbia's delivery microhub feasibility study by District Department of Transportation (DDOT) staff, a briefing about the District's positive truck route signage study also by DDOT staff, and a briefing about proposed updates to the District's critical urban freight corridor (CUFC) designations.

Proposed updates to the District's CUFC network were presented to the TPB Technical Committee at its September 8, 2023 meeting.

3.9 Metropolitan Area Transportation Operations Coordination Program Planning
The September 12, 2023 seasonal kickoff meeting of the MATOC Severe Weather Coordination Working Group was organized and conducted, discussion preparations and coordination for transportation agency response to the upcoming winter weather season.

The regularly scheduled September 15 virtual meeting of the MATOC Steering Committee was organized and conducted, discussing communications, coordination, and Traffic Incident Management topics.

The regularly scheduled virtual meeting of the MATOC Operations Subcommittee was organized and conducted on September 28, discussing regional roadway operations and traffic issues.

3.10 Resiliency Planning
In September 2023, staff continued to advance initiatives in transportation resilience and green infrastructure planning. Staff reviewed and evaluated proposals for the Prince William County Green Infrastructure Study, ensuring that our selections align with the project's objectives and broader goals. In addition, preparations were undertaken for liaison duties pertaining to the TLC program, laying the groundwork for seamless program execution and effective stakeholder engagement.

Staff also successfully planned and executed the second regional transportation resilience planning working group meeting, held on September 7, 2023 at MWCOG offices and virtually (hybrid format). This session provided a platform for meaningful discussions and collaborative brainstorming, further solidifying our collective commitment to enhancing regional transportation resilience and review of phase two of the vulnerability assessment (methodologies and initial results). Moreover, planning efforts began for the upcoming resilience forum, encompassing tasks such as securing appropriate venues, logistical arrangements, and extensive outreach to interested organizations and groups. The thorough review and refinement of all meeting materials, including slide decks, project request forms, informational guide, and agenda, ensured that the forum would be both informative and engaging for all participants.

Staff also reviewed the methodology and results of the phase 2 vulnerability assessment, ensuring its robustness and reliability in identifying critical areas and assets at risk. Data collection for the FHWA Transportation Resilience Improvement Plan (TRIP) continued. Finally, staff delivered a presentation at the Potomac River Conference on September 21, 2023, spotlighting the comprehensive climate and resilience planning endeavors currently being undertaken by COG and TPB. This served as a valuable opportunity to share our insights and contribute to the broader discourse on regional climate adaptation initiatives.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	$753,904	$60,477	22%	53

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

The September meeting of the 2023 - 2024 TPB Community Advisory Committee (CAC) was held on Thursday, September 14. The committee received a presentation from MDOT and VDOT about their funding and project prioritization process, and an overview of the National Capital Region Freight Plan. The meeting was held in a hybrid format with an in-person option at COG and virtual option on WebEx.

The Access for All Advisory Committee (AFA) met in a virtual format on Monday, September 18. The committee discussed the funding and project prioritization processes of Virginia, Maryland, and WMATA. These presentations are part of a series from the various state agencies to TPB's advisory committees to inform them about the state and local processes, and how they coordinate at the TPB. The AFA advises the Transportation Planning Board (TPB) on transportation issues and services important to low-income communities, underrepresented communities, people with limited English proficiency, people with disabilities, and older adults.

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

Staff continues to compile and share public comment 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, TPB, and state agencies on a bimonthly frequency at the TPB Technical Committee and Board meetings.

Staff continues to plan for and update workshop materials for the TPB's Community Leadership Institute for 2024.

Staff continues to work with consultants to update the 2008 Citizen's Guide to Transportation Decision-Making in the Metropolitan Washington Region.

4.2 Communications

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

- **July 2023 TPB meeting recap: MD Transportation Alternatives projects, freight plan update**
  September 13, 2023

- **Join the movement towards a greener future, take the pledge and go car free with Commuter Connections**
  September 14, 2023

- **Thousands of D.C. area residents pledge to go car free on September 22**
  September 21, 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, and Community Advisory Committee

Staff shared information about TPB activities via social media:
Fairfax County virtual public meetings (9/15); Car Free Day (9/5); Car Free Day (9/14); WMATA new signage (9/14); MDOT Transportation Plan (9/18); Enhanced Mobility solicitation deadline (9/18); TPB Meeting notice (9/19); Metro signs (9/24); TPB Intercity Session (9/28)

Staff completed the following in support of Task 1 Long-Range Transportation Planning:
Completed a draft RFP for Visualize 2050 website and graphic design updates.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	$3,442,357	$208,097	16%	55

5. TRAVEL FORECASTING

5.1 Network Development

Staff prepared a memo and presentation for 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 responded to a Virginia Department of Transportation (VDOT) question about network coding on Route 7 in Loudoun County.

Staff continued a review of all facilities in the District of Columbia to update the number of lanes to reflect time-of-day street parking and new sidewalk space since 2021. Staff continued to make these updates in the regional highway network database.

Staff continued production of a base transit development network user's guide, for internal documentation purposes, that will provide 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.

Staff completed the development of a base transit network reflecting December 2022 conditions. Staff drafted a memorandum that documents this work, which is currently under internal review. Later this calendar year, staff plan to develop a new base transit network reflecting October 2023 conditions for the upcoming 2025 LRTP update.

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. In September, staff synchronized the COGTools code change in the GitHub repository. Staff also developed a draft memorandum, dated September 11, that documents this work. The memo is currently under internal review. Staff made additional revisions to the QA/QC module, database and the documentation based on the comments that have already been received.

5.2 Model Development and Support

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months. Staff attended the September 22 TFS meeting and started preparing the meeting highlights. The September meeting covered the following topics:

- Round 10 of the Cooperative Forecasts of Households, Population, and Employment.
- Status Report on the COG/TPB Developmental, Disaggregate, Activity-Based Travel Demand Forecasting Model, Known as the Gen3 Travel Model.
- Presentations from the Transportation Research Board Innovations in Travel Analysis and Planning Conference, Indianapolis, Indiana, June 2023: "Measuring Racial Equity Geographically: What Works and What Needs Work" (From Conference Session B1: Capturing the Impacts of Transportation Projects on Disadvantaged Populations).

Generation 2/Ver. 2.4 Travel Model

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

COG's Travel Forecasting and Emissions Analysis (TFEA) staff processed the transportation analysis zone (TAZ)-level Round 10 Cooperative Forecast land use data for travel demand modeling and documented the work in a draft memorandum dated September 14. However, staff later discovered an anomaly with employment forecasts for one zone. Staff from COG's Department of Community Planning and Services (DCPS) will revise the data and TFEA staff will re-process the data and update the documentation.

In preparation for the 2025 LRTP, staff started to implement changes to model code/input files to accommodate the new horizon year of 2050 in the Ver. 2.4.6 Travel Model. In September, staff developed a methodology to project the 2050 airport passenger trip table at the Airport Analysis Zone (AAZ) level based on the 2019 Airport Passenger Survey (APS) data and 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. When reviewing the results, however, staff noticed an anomaly in the land use data which needed to be addressed. This work was put on hold until the land use data is revised.

Staff successfully tested the new Cube software (Cube Version 6.5.1) with TPB's latest production-use Gen2/Ver. 2.4.6 Model. The test with the Gen2/Ver.2.4 Model, however, failed at the transit walkshed generation step due to incompatibility between the old ArcPy-based transit walkshed process and the newer Cube version. Staff thus decided to keep Cube 6.4.1 on some of the modeling servers to run the Gen2/Ver. 2.4 Model and upgrade the Cube software on other servers to Version 6.5.1.

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 Baseline Mobility Group (BMG), the consultants on the Gen3 Model development project on September 12 and 26.

- Staff continued to work with RSG on the development of the Gen3, Phase 2, Model. Specifically,
    - RSG/BMG staff continued to work on the calibration and validation of the Gen3, Phase 2, Model. RSG shared the latest model validation results dated September 25 with COG staff.
    - As part of the Phase 2 sensitivity testing, COG staff continued to work on two additional tests related to Autonomous Vehicle (AV) and equity, respectively.
        - Staff completed the AV test and documented the preliminary findings in a memorandum dated September 9. Later, staff entered the contents of the memo, with minor edits, in the Gen3 Model, Phase 2, Sensitivity Testing Report. RSG is to review the COG staff submissions soon.
        - Staff wrapped up the equity test. Instead of documenting the test in the Phase 2 sensitivity testing report, staff decided to document it in a separate memorandum. Staff started the documentation in September. Staff also helped BMG with running the equity analysis scripts and worked with BMG staff to debug issues.
    - Following a recent model update, COG staff updated the Gen3 Model flowcharts and included the latest version ("v09") of the model flowcharts in the Gen3 Model user's guide. Once RSG finishes the Phase 2 model calibration and validation report, the user's guide will be finalized with a reference to the report.
    - 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 until RSG completes the final model.
    - COG staff continued to make enhancements and bugfixes to the Gen3 Model. Specifically,
        - COG staff noticed a minor discrepancy in the model in terms of the location of the "support" folder. Staff opened an issue on GitHub and RSG fixed the issue.
        - Staff ran the Estimation Data Bundle (EDB) generation process after RSG recently updated it. The test failed with a model crash. Staff helped RSG investigate the issue by conducting additional tests with the RSG guidance. The issue persisted.

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) maintaied 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.

Other activities

Staff serviced four data requests in September: Two were for the Gen2/Ver. 2.4.6 Travel Model, one for estimated person trips and vehicle trips, and one for hourly observed traffic in 2019. One request was from a consultant working for the Prince George's County Transit Vision Plan. One request came from Transurban to update relevant inputs in Transurban's internal Strategic Model. One request was from a consultant working for Frederick County on an area-wide study using the COG/TPB model. One request was from the University of Maryland to explore the relationship between the change in gasoline prices and people's travel behavior.

Staff attended a series of ad-hoc ActivitySim partners-only check-in meetings for the ActivitySim Phase 9 development scoping. Staff developed and submitted the initial ranking of potential Phase 9 tasks on behalf of COG. Staff attended ActivitySim Consortium meetings regularly on Tuesdays and Thursdays.

Staff started to conduct daily modeling work on AWS cloud servers. Staff worked with IT to resolve issues encountered on the AWS servers. Specifically,

- Per request from TFEA staff, IT moved the archival data from primary drives to archive drives on an AWS File Gateway (FGW). Staff reviewed the information paper that IT prepared on the proposed archive drive setup on the cloud.

After testing, staff upgraded the Cube software on two modeling servers in the cloud (TMWS02 and TMW03) to Version 6.5.1 while keeping Cube 6.4.1 on TMS7 (on premises) and TMWS01 (in the cloud) to run the Gen2 Model with the old ArcPy-based transit walkshed generation process.

Bahar Shahverdi, the new hire for the Transportation Engineer II position, started work on September 11. Her supervisor provided an orientation and developed the introductory period goals for her. Senior staff conducted a series of hands-on training sessions with Dr. Shahverdi on various work activities. In support of the September 22 TFS meeting, senior staff also trained the new staff member on related technical assistance tasks, including WebEx related tasks, setting up YouTube livestream, and maintaining the website for the TFS.

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	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	$2,922,011	$202,823	17%	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 prepared a memo and presentation for 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 conformity analysis of Visualize 2050.

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 - i.e., that both are based on the current MOVES3 model.

DEP and TPB staff reviewed comments received during the public comment period for the update to the 2008 Ozone Maintenance Plan with new motor vehicle emissions budgets (MVEBs) and developed proposed responses. Staff briefed the Metropolitan Washington Air Quality Committee Technical Advisory Committee (MWAQC-TAC) on the plan update status (item #5). Subsequently, Staff provided these comments and responses to the Metropolitan Washington Air Quality Committee (MWAQC) at the September committee meeting (item #5). MWAQC approved the updated 2008 Ozone Maintenance Plan with new MVEBs and the state air agencies will submit the document to EPA for approval.

DEP staff also began 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 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, items #3 and #4).

Staff developed and presented a joint TPB/MWAQC/CEEPC comment letter supporting a proposed rulemaking from the National Highway Traffic Safety Administration (NHTSA) on Corporate Average Fuel Economy (CAFE) standards to the TPB Steering Committee, MWAQC (item #8), and CEEPC (item #3). The proposed rulemaking establishes CAFE 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. The committees approved the letter, and DEP staff posted the letter to the comment docket (September 28).

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. Related to all recent climate change and electric vehicle activities that involve federal funding, staff finalized a presentation and briefed the TPB Technical Committee (item #4) and the TPB (item #8) on New Federal Funding Programs for Carbon Reduction, with funding for these programs coming from the Bipartisan Infrastructure Law and the Inflation Reduction Act. Some of these programs and associated activities are also discussed below in greater detail.

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.

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. DEP staff briefed the TPB Technical Committee (item #5), the TPB (item #9), and CEEPC (item #4) on recent developments related to this program.

Staff continued to participate in electric vehicle (EV) planning activities. TPB Technical Committee was briefed on the COG's Regional Electric Vehicle Deployment (REVD) Working Group and the Regional Electric Vehicle Infrastructure Implementation (REVII) Strategy (item #6). DEP staff and TPB staff held internal planning meetings for the REVD Working Group. TPB staff and ICF staff (project consultant) held check-in meetings on the REVII Strategy project and reviewed draft electric vehicle projections (Task 1) and a memorandum on Electric Vehicle and Charging Needs Assessment and Forecast Proposed Methodology (Task 2). ICF staff presented draft electric vehicle projections (Task 1) at the joint REVD Working Group and Built Environment and Energy Advisory Committee (BEEAC) meeting (item #3).

To further enhance understanding of electric vehicle infrastructure planning, TPB staff attended a webinar on this topic (Replica Webinar: EV Infrastructure done right: Data for a new era in mobility) on September 21.

In response to a request by the Volpe Transportation Center, staff completed beta-testing of the Telework tool in the Congestion Management and Air Quality (CMAQ) Toolkit and provided feedback to Volpe.

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. Staff also attended an EPA webinar on the MOVES4 model.

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 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	$5,344,964	$112,406	6%	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.

Staff initiated procurement activities for Big Data products, including initiating a purchase requisition for StreetLight Data, which will be used to support travel monitoring and research activities.

Staff began drafting a recruitment announcement for a program manager for leading travel monitoring and planning analyses activities.

Traffic Trends

Staff assessed the feasibility of developing and cleaning all post-2010 active transportation data available in the region for inclusion in the RTDC.

Staff began to collect 2022 VMT data in order to prepare the annual VMT Trends update.

Staff completed the SAS conversion of the updated Round10 Cooperative Forecasts from the COG3722 to TPB3722 system after working with TFEA team and CPS staff to identify and research data anomalies.

Staff began to assemble the 2021 HPMS files from the FHWA Hosted site. Staff alerted FHWA staff to some data issues with the DC data.

Staff researched traffic counts on South Capitol Street in the District of Columbia and responded to an inquiry from the TFEA team to explain exactly which lanes each counter covers. In addition, staff recommended changing the counter assignment of two links.

Staff responded to an inquiry about post-2018 average annual weekday traffic by network link. Staff explained the timeline for these data and provided memos explaining the traffic count assignment process and the AADT to AAWDT factoring process.

Staff responded to a data request for hourly 2019 traffic data at continuous count stations and subsequently directed the requestor to sources of additional information.

Staff responded to a data request for 2021 VMT estimates for the District of Columbia.

Data Requests
COG/TPB staff fielded a RTS data request from Cambridge Systematics.

Meetings & Conferences
COG/TPB staff participated in biweekly meetings with the Gen3 Model Development Team.
COG/TPB staff participated in the 2023 AMPO Annual Conference in Cleveland, Ohio.

7.2 Data Management and Visualization Services

Staff continued to work with TPB's bicycle and pedestrian planner to implement edits and additional information about projects in the Project InfoTrak (PIT) database that pertain to the National Capital Trail Network (NCTN). This work is ongoing.

Staff met with TPB's resiliency consultant, ICF, to discuss needs related to datasets and access to TPB's ArcGIS Online environment as part of the next steps for developing an online mapping tool.

Staff continued to request average weekday transit ridership from regional transit providers and follow up with specific providers to request outstanding data from previous requests.

Staff met with fellow DTP staff to discuss the Transit Within Reach program and identify opportunities for updating developing data products to support the program.

Staff reviewed the proposed methodology of the Local Transit Access to HCT study being prepared by a consultant on behalf of TPB.

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

Staff continued to work with Esri professional services staff to upgrade TPB/COG's ArcGIS software environment. Staff continues to work with Esri staff on knowledge transfer and implementing best practices.

Staff worked on developing a custom print service to enable staff to print online map content more easily. This work is ongoing.

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

*GIS Committee/GDX Working Group*Staff planned and participated in the September 19 GIS Committee/GDX Working Group virtual meeting. Highlights of the meeting included: a demonstration of Fairfax County's RescueVision application. Updates on the USGS National Geospatial Program, and the regular status reports on the NCR/GDX, NextGen 9-1-1, and the HSEMA Food and Water Resilience Project.

Staff updated the CIO Committee on GIS Committee activities at the September 21 CIO meeting.

Data Requests

Staff responded to a data request from a consultant doing work on behalf of TPB regarding the availability of TIP data; staff referred the consultant to the geospatial data from Project InfoTrak.

Staff responded to an inquiry from City of Alexandria staff regarding TPB's Equity Emphasis Areas (EEA) layer for all groups.

Staff responded to a request from Loudoun County Transit staff regarding the availability of several spatial data layers requested by a consultant doing work on behalf of Loudoun County.

Meetings & Conferences

Staff attended the Association of Metropolitan Planning Organizations (AMPO) annual meeting in Cleveland September 26-29.

Staff attended and presented a draft map of the National Capital Trail Network at the September Bicycle and Pedestrian Subcommittee meeting held on September 19.

Staff attended and participated in the virtual workshop – "Using The Bottleneck Ranking Tool of The RITIS Probe Data Analytics Suite" held on September 21.

Staff attended the joint GIS Committee/GDX working group meeting held on September 19.

Staff attended the TPB Freight Subcommittee meeting on September 12.

Staff attended the Cooperative Forecast and Data Subcommittee meeting on July 11.

Staff participated in the recurring meeting related to Visualize 2050 planning activities on September 15.

Staff attended the Travel Forecasting Subcommittee on September 22.

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

Task 8	BUDGET	Billed this month	% Funds Expended	UPWP Page
REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION	$1,211,231	$70,140	17%	67

8. REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION

8.1 Regional Land Use and Transportation Coordination

During September DCPS staff worked with Arlington County staff to make corrections to mis-coding of TAZ data for Ronald Reagan Washington National Airport in the Round 10.0 Cooperative Forecasts. DCPS transmitted the revised Round 10.0 file to DTP staff for further processing.

COG's Planning Directors Technical Advisory Committee and its Cooperative Forecasting and Data Subcommittee held a joint meeting Friday, September 15th, where they received several planning briefing on the regionally-significant transit-oriented development associated with Amazon's HQ2 campus in the National Landing area of Arlington County served by the Crystal City and Pentagon City Metrorail stations and the Crystal City VRE station. This meeting featured a walking tour where participants observed a development intended to locate jobs and people closer together, as called for by TPB's policy framework.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
COMPLETE STREETS, MOBILITY AND ENHANCEMENT PROGRAMS	$1,135,269	$46,932	9%	69

9. COMPLETE STREETS, MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

During the month of September, TPB staff supported the opening of the solicitation period for the 2023 Enhance Mobility grant solicitation which will run through September 30th, 2023. Activities included fielding questions and requests from prospective applicants and conducting the marketing and communications campaign to inform stakeholders and the public of the upcoming solicitation. Staff also began preparing 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.

9.2 Regional Roadway Safety Program.

TPB staff continued coordination with jurisdictional staff to review and score consultant proposals received in response to Task Order Requests and began notifying consultants of the evaluation results.

9.3 Transportation Alternatives Set-Aside Program

Staff 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

Staff finalized the consultant procurement process for the 10 TLC projects selected for FY 2024. At the beginning of the month, staff sent messages announcing the consultants that had been selected for each project. Throughout the reporting period, TPB staff and COG's procurement office developed task orders for each project. During this time, staff also identified liaisons from the COG staff who were assigned to each project. By the end of the month, all the task orders were signed and TPB staff sent out "green light" messages letting local staff and consultants know that the projects could begin.

Staff began planning an online seminar for November 2 that will feature presentations on last year's TLC projects.

Staff sent out end-of-year surveys to consultants and local staff to get input on last year's projects, including potential improvements.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB MANAGEMENT AND SUPPORT	$1,707,259	$100,581	13%	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 provided overall program management oversight to all the Department's activities. Work activities the Director was involved in during the month of September 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 September FY 2023 includes Telephone / Web Ex / Microsoft Teams Communications:

- Coalition for Smarter Growth at Metro Funding
- WaPo – Emissions Reduction Goals at Climate Change and Transportation
- CAO Committee Meeting
- COG Staff at MWAQC TAC Leadership
- COG CAO WMATA Cost Structure Work Group
- COG Board Meeting
- US Congressional Senators Meeting with COG Board
- COG Metro Funding Strategy Group
- TPB Board Meeting
- D.C. Office of CFO at CAO WMATA Cost Structure Workgroup
- COG Staff at HUD Pro Housing Application
- Union Station Redevelopment Corporation at TPB Work Session
- ENO Webinar at Federal Government Shutdown

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.u

Task 11	BUDGET	Billed this month	% Funds Expended	UPWP Page
TECHNICAL ASSISTANCE	$2,215,511	$5,692	1%	73
District of Columbia	$330,930	$0	0%	73
Maryland	$707,967	$0	0%	75
Virginia	$664,437	$5,692	2%	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.

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 SurveyStaff prepared a task order for vehicle occupancy counts at three locations on I-66 outside the beltway as an add-on to the I-66/I-395 Mode Share Study. This included researching and documenting the optimal counting locations to record the exact lanes that VDOT requested. Staff delivered the task order and detailed documentation to the on-call travel monitoring contractor for a price quote.

Staff organized the Fall 2023 Active Transportation Counting kickoff meeting. The consultant delivered a counting schedule and began to conduct the fall counts.

Staff began to analyze the data from the spring 2023 active transportation counts.
3. 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 tentatively recommended three projects for funding. These recommendations were conditional upon follow-up questions for each of the tentative selections. At the beginning of September, staff finalized the selections. During the rest of September, staff developed approval material for the TPB and did advance work in preparation for project implementation. The TPB is scheduled to approve the recommendations in October.

3, High-Capacity Transit Map
No activity.

4. Other Tasks to be Defined
No activity.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

Program Management

- COG/TPB staff conducted a CASP Program review meeting with Federal Aviation Administration (FAA) program staff to review the status of open Airport Improvement Program (AIP) grants, upcoming grant opportunities, and outlook for future funding.
- The Aviation Technical Subcommittee (ATS) held its bi-monthly meeting on September 28th.
- 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 on logistical preparations for the 2023 APS full-scale survey.
- COG/TPB staff coordinated with the APS contractor to start the badging process for field staff.
- COG/TPB staff finalized the sample plan for the 2023 APS full-scale survey.
- COG/TPB staff reviewed and finalized the survey instrument and programming spec for the 2023 APS full-scale survey for all three airports.
- COG/TPB staff reviewed and finalized all survey materials for the full-scale survey.

- COG/TPB staff delivered presentations to the airline management council and tenant manager meetings at BWI, DCA, and IAD airports.
- COG/TPB staff reviewed and provided feedback on the training materials for data collectors and field supervisors.
- COG/TPB staff conducted weekly check-in meetings with ICF, the APS contractor.
- COG/TPB staff delivered a briefing on the 2023 APS focusing on preparations for the full-scale survey to the Aviation Technical Subcommittee on September 28.

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 4. Public Participation and Outreach

Staff continues to collect public comment via the Visualize 2050 Initial Project List Feedback Form, email, voicemail, and letter to share with state agencies on a bi-weekly basis at the TPB Board and TPB Technical Committee meetings.

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 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.
    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 16 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 (REVII) 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 three 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 (CEEPC), 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

  o Ongoing

- Recommendations, workplan, and documentation of initial activities for ongoing Regional Travel Survey.
  o Ongoing

- Recommendations, workplan, and documentation of initial activities for Regional Transit Onboard Survey activities
  o Ongoing, including consulting with TPB Committees

- Workplan and documentation of activities for inter-city bus and rail survey.

- - o Initiated
- Recommendations, workplan, and documentation of initial activities for Regional Bike Count Program along Regional Network
  - o Ongoing
- Technical Support
  - o Ongoing

7.2 Data Management and Visualization Services
- Data management plan recommendations and documentation
  - o Ongoing
- Travel monitoring datasets to support PBPP and Gen3 modeling requirements
  - o Ongoing
- Travel trends and dashboard and visualizations
  - o Ongoing
- Technical reports/memoranda
  - o Ongoing, as needed.
- Presentations
  - o 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
  - o Ongoing
- Presentations, visualizations, and information reports
  - o Ongoing
- Workplan and documentation of initial activities for updating Regional Activity Centers Map
  - o Under development
- Updated Cooperative Forecasting land activity forecasts and documentation, if necessary
  - o Concluding Round 10. Need to update Round 10 not yet determined.
- Technical support
  - o Ongoing
- Annual Baseline Employment Guidance
  - o Work to commence later in fiscal year.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

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

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

	DC, MD and VA FTA, FHWA and LOCAL BUDGET TOTAL	FUNDS EXPENDED	BILLED THIS MONTH	% FUNDS EXPENDED
1. Long-Range Transportation Planning				
Long - Range Transportation Planning	1,136,668.51	226,624.21	84,741.74	20%
Subtotal	**1,136,668.51**	**226,624.21**	**84,741.74**	**20%**
2. Transportation Improvement Program				
Transportation Improvement Program	353,708.82	48,661.98	18,181.65	14%
TIP Database Support	230,000.00	0	0	0%
Subtotal	**583,708.82**	**48,661.98**	**18,181.65**	**8%**
3. Planning Elements				
Congestion Management Process	833,870.74	108,364.53	45,552.76	13%
Systems Performance, Ops & Tech Planning	430,355.33	76,722.56	34,295.77	18%
Transportation Emergency Preparedness Planning	139,196.00	29,491.8	10,495.03	21%
Transportation Safety Planning	407,497.86	26,786.54	12,674.84	7%
Bicycle & Pedestrian Planning	198,851.96	38,470.78	16,071.24	19%
Regional Public Transportation Planning	573,566.35	85,781.79	39,193.95	15%
Freight Planning	396,491.66	40,769.05	13,216.67	10%
Metropolitan Area Transportation Operation Coord Program Planning	171,139.72	18,837.18	5,731.7	11%
Performance-Based Planning & Programming	216,047.96	27,960.4	11,391.31	13%
Resilience Planning	538,120.51	77,775.46	24,467.58	14%
Subtotal	**3,905,138.09**	**530,960.09**	**213,090.85**	**14%**
4. Public Participation				
Public Participation	753,904.21	162,134.44	60,477.81	22%
Subtotal	**753,904.21**	**162,134.44**	**60,477.81**	**22%**
5. Travel Forecasting				
Network Development	1,173,454.94	240,164.55	91,724.13	20%
Model Development	2,268,902.50	296,815.93	116,373.77	13%
Subtotal	**3,442,357.44**	**536,980.48**	**208,097.9**	**16%**
6. Mobile Emissions Planning				
Air Quality Conformity	1,221,950.95	218,759.96	96,086.15	18%
Mobile Emissions Analysis	1,700,061.94	264,963.13	106,737.29	16%
Subtotal	**2,922,012.89**	**483,723.09**	**202,823.44**	**17%**
7. Travel Monitoring and Data Programs				
Research & Analysis	4,458,336.48	173,146.76	68,374.17	4%
Data Visualization & Management	886,626.84	151,451	44,032.25	17%
Subtotal	**5,344,963.32**	**324,597.76**	**112,406.42**	**6%**
8. Planning Scenarios and Socioeconomic Forecasting				
Socioeconomic Forecasting	1,211,231.11	200,476.08	70,140.89	17%
Subtotal	**1,211,231.11**	**200,476.08**	**70,140.89**	**17%**
9. Complete Street Mobility and Enhancement Programs				
Transportation and Land Use Connections Program	622,450.01	62,780.52	27,594.21	10%
Enhanced Mobility Grant Program	97,904.69	24,641.09	12,068.33	25%
Transportation Alternatives Set-Aside Programs	37,912.20	15,307.21	5,745.41	40%
Regional Roadway Safety Program	377,004.84	4,354.87	1,524.2	1%
Subtotal	**1,135,271.74**	**107,083.69**	**46,932.15**	**9%**
10. TPB Support and Management				
TPB Support and Management	1,707,259.82	229,577.58	100,581.76	13%
Subtotal	**1,707,259.82**	**229,577.58**	**100,581.76**	**13%**
Core Program	**22,142,515.95**	**2,850,819.4**	**1,117,474.61**	**13%**
A. District of Columbia Technical Assistance				
Program Development & Misc.	330,931.43	0	0	0%
B. Maryland Technical Assistance				
Program Development & Misc.	707,968.41	0	0	0%
C. Virginia Technical Assistance				
Program Development & Misc.	664,436.05	16,258.58	5,692.97	2%
D. Public Transit Technical Assistance				
Program Development & Misc.	512,176.17	0	0	0%
Technical Assistance	**2,215,512.06**	**16,258.58**	**5,692.97**	**1%**
TPB Grand Total	**24,358,028.01**	**2,867,077.98**	**1,123,167.58**	**12%**

	TOTAL AUTHORIZED BUDGET	TOTAL EXPEDITURES	FTA/STA/LOCAL AUTORIZED BUDGET	FTA EXPENDITURES	PL FUNDS/LOCAL AUTORIZED BUDGET	FHWA EXPENDITURES
A. District of Columbia Technical Assistance						
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
Subtotal	330,931.43	0.00	9,763.74	0.00	321,167.69	0.00
B. Maryland Technical Assistance						
Feasibility/Speacial 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
Subtotal	707,968.41	0.00	20,887.76	0.00	687,080.65	0.00
C. Virginia Technical Assistance						
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	15,639.86	6,638.36	461.44	218,361.69	15,178.42
VA Other Tasks	0.00	16.90	0.00	0.50	0.00	16.40
Subtotal	664,436.05	16,258.58	19,603.39	479.69	644,832.66	15,778.89
D. Public Transportation Technical Assistance						
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
Subtotal	512,176.17	0.00	512,176.17	0.00	0.00	0.00
Grand Total	2,215,512.06	16,258.58	562,431.06	479.69	1,653,081.00	15,778.89