

FY 2024



National Capital Region
Transportation Planning Board

Work Program Progress Report

JULY 2023

FY 2024

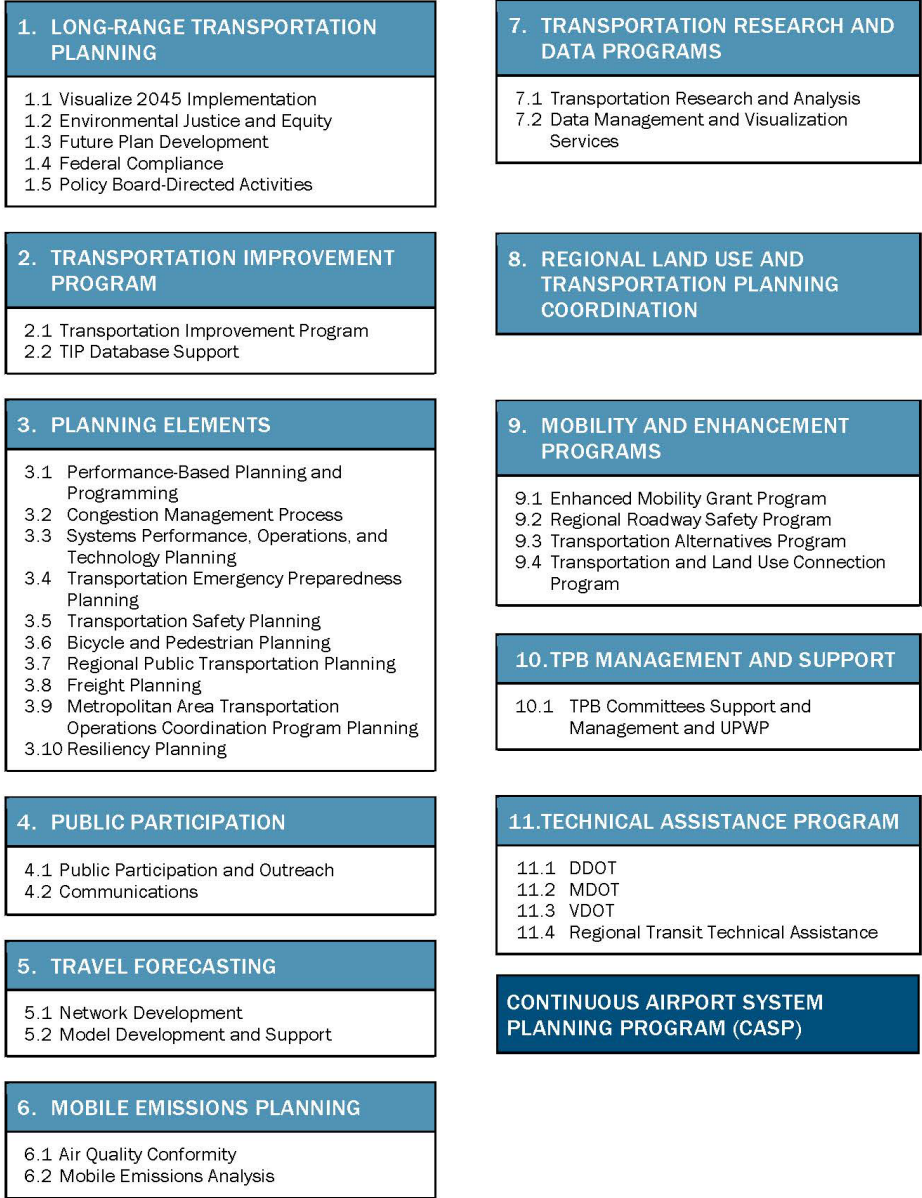
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The TPB approved its FY 2024 Unified Planning Work Program (UPWP) in March 2023. The TPB Work Program Progress Report summarizes each activity for July. In addition, this report concludes with status updates reflecting timelines for all ongoing program 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	\$68,979	6%	41

1. LONG-RANGE TRANSPORTATION PLANNING

Task 1.1 – Visualize 2045 Implementation

No activities to report.

Task 1.2 – Environmental Justice and Equity

No activities to report.

Task 1.3 – Future Plan Development

Staff completed work on an initial financial analysis for Visualize 2050, which was distributed to the STWG. Staff continued exploring development of existing and future multimodal system maps. Staff extensively reviewed the Project InfoTrack (PIT) fields and drop-down options to identify improvements that will make for improve data analysis as stakeholders prepare to input their projects for the Visualize 2050 technical inputs solicitation. Staff utilized the identified common transportation solutions to update the PIT Primary Project Type field options. Staff explored the types of transportation issues experienced in the region, other societal topics impacted by transportation, and the topics to consider when planning.

Staff researched public engagement platforms and survey options to identify if there are new tools that can be applied to the upcoming public comment periods. Staff met with multiple vendors and explored their products. Staff began exploring the development of the Visualize 2050 website. Staff finalized the communications and public engagement plans in preparation for sharing them with internal staff at the next 2050 team meeting in August.

1.4 – Federal Compliance

No activities to report.

1.5 – Policy Board-Directed Activities

No activities to report.

	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRANSPORTATION IMPROVEMENT PROGRAM	\$583,710	\$14,848	3%	43

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1– Transportation Improvement Program (TIP)

At its meeting on July 7, the TPB Steering Committee reviewed and approved two resolutions approving amendments to the FY 2023-2026 TIP. The first amendment was requested by DDOT to add \$92 million for the Rehabilitation of the I-395 Northbound Bridge over the Potomac River. The second amendment, requested by MDOT on behalf of Prince George’s County added \$1.56 million for the Governor’s Bridge Road Bridge Reconstruction project.

At its meeting on July 19, the TPB approved resolution R2-2024 to amend the Northern Virginia portion of the TIP to update funding and project information to align with VDOT's Draft FY 2024-2027 STIP, increasing the amount programmed in the Northern Virginia portion of the TIP from approximately \$2 billion to approximately \$9 billion.

In July, TPB staff opened a TIP Action for administrative modifications that will extend until mid-August since there are no August meetings for either the Steering Committee or the Board. A final tally of ad-mods approved during this period will be posted in August.

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 July under the baseline maintenance and support contract included:

- Editing one of the new Project Input form fields, Source Document Link so that it is required to be formatted as a URL (Complete)

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 July under the professional services contract included:

- Changing the "Conformity?" Yes/No data field label to be "Regionally Significant", then eventually just hiding the field since the regionally significant field would need to be applied at the conformity record level rather than at the project level (Completed)
- Requiring projects in adoptions to have the mapping tab at least viewed and saved prior to submittal (Complete)
- Removing the mapping requirement for projects with Change Reason set to "Complete" or "Withdrawn" (Complete)
- Programming text delimiters to separate field values in the narrative portion of the Conformity Information report (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	\$151,116	4%	45

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

Staff began preparations for the collection of data for the Highway Safety and Transit Safety performance measures.

3.2 Congestion Management Process

Staff continued preparations for a future Vehicle Probe Data Users Group workshop on the Probe Data Analytics Suite Bottleneck Ranking Tool, continued background research toward potential big

data activities in Congestion Management in FY 2024, and undertook desk research on current and recent Congestion Management Process activities at peer Metropolitan Planning Organizations around the country

Staff undertook 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

The regularly scheduled July 12 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

Staff held a planning session on July 7 and 20 with the Transportation Safety Subcommittee Chair to identify topics and speakers for future Safety Subcommittee meetings.

3.6. Bicycle and Pedestrian Planning

A meeting of the Bicycle and Pedestrian Subcommittee was organized and held on July 18. The Subcommittee was briefed on the updated Maryland Bicycle and Pedestrian Plan, as well the [recently announced](#), successful, RAISE trail \$25 million grant application by Maryland – National Capital Park and Planning Commission, *Creating Equitable Connections on the National Capital Trails Network*. DDOT staff also briefed the Subcommittee on DC's program to complete missing sidewalks. Review of a draft National Capital Trail Network map was deferred to the September meeting.

Staff responded to questions from GIS staff on locations of National Capital Trail Network projects, facility types, completion status, and possible duplicate or obsolete projects in the Project Infotrak (PIT) database, using information provided by the jurisdictions, including hand-drawn maps, as well as open-source information such as Google maps. National Capital Trail Network projects were matched with their corresponding PIT ID's, Project Infotrak records were corrected, and new project records were created for projects split into multiple phases. Some questions had to be referred to agency staff for clarification.

Deliverables

3.6 Updated National Capital Trail Network map: Work continued in July.

3.6 Regional Outreach Workshops: None in July

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee met in July. The theme of the meeting was transit-oriented development rising across the region. The panel included speakers from the City of Alexandria, WMATA, the National Center for Smart Growth, and the Urban Land Institute. Consultants also briefed their work on an analysis of local transit access to high-capacity transit (HCT) stations.

Staff prepared letters of endorsement for federal grant applications by member jurisdictions.

Staff attended the monthly WMATA JCC meeting and a WMATA Better Bus Network Redesign Technical Committee Meeting as well as a NVRC M-495 Stakeholders meeting. Staff worked with on-call planning consultants on the study of local transit access to HCT station. Staff worked on the 2022 State of Public Transportation report. Staff supported the COG Annual Retreat with information on transit funding in the region.

3.8. Freight Planning

The Freight Subcommittee met virtually on July 6. The agenda included a briefing by the District Department of Transportation on its State Freight Plan Update, TPB staff on the National Capital Region Freight Plan Update, and TPB staff on regional resiliency work and implications for freight planning.

Staff additionally presented the draft National Capital Region Freight Plan Update at the July 7 Technical Committee meeting and the July 19 TPB meeting for member review and comment.

3.9 Metropolitan Area Transportation Operations Coordination Program Planning

The regularly scheduled July 21 virtual meeting of the MATOC Steering Committee was organized and conducted, discussing communications, coordination, and Traffic Incident Management topics.

An in-person/hybrid meeting of the MATOC Operations Subcommittee was organized and conducted on July 27 at the McConnell Public Safety and Transportation Operations Center in Fairfax, Virginia, 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. Major milestones in July 2023 were scheduling the second working group meeting and transportation resilience forum for September and October, identifying data needs and beginning to collect data alongside TPB staff and ICF, advising on methodology for phase 2 of the vulnerability assessment, and continued project management including invoicing.

Resilience planner worked with TPB communications staff to update the transportation resilience planning website, removing outdated references and language and updating with current projects, as well as editing a newsletter article on the program and various projects being undertaken. Staff continued to review materials from prior TPB transportation planning and resiliency planning activities, as well as federal resources, training materials/videos and peer MPO resiliency planning activities to keep on top of state of the practice. Staff also continued participation in the Prince William County Green Infrastructure project by reviewing potential contractor qualifications and discussing procurement options. Held various meetings and discussions on how to best incorporate transportation resilience planning into regional long range transportation planning and best next steps for program as a whole.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	\$753,904	\$45,574	6%	53

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

The July meeting of the 2023 - 2024 TPB Community Advisory Committee (CAC) was held on Thursday, July 13. The committee received a presentation from WMATA about their funding and

project prioritization process and an update about the 2022 Participation Plan Evaluation. The meeting was held virtually on WebEx.

Staff continues to implement recommendations from the 2020 Public Participation Evaluation. In addition, staff researched a variety of public engagement platforms for future participation efforts and public comment periods.

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 concluded a public comment period for a TIP amendment requested by VDOT that ended on July 15, 2023. Staff also initiated a public comment period for the National Capital Region Freight Plan that concluded on August 21, 2023.

Staff initiated planning for the TPB's Community Leadership Institute for Winter 2024.

4.2 Communications

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

- **COG unveils Electric Vehicle Deployment Clearinghouse**
July 13, 2023
- **TPB supports \$3.2M in federal funding for suburban Maryland transportation projects**
July 19, 2023
- **Statement by COG leaders on WMATA's financial sustainability**
July 20, 2023
- **TPB transportation resilience planning: Assessing vulnerabilities, understanding risks, and identifying opportunities.**
July 25, 2023
- **June 2023 TPB meeting recap: Intercity travel, military installation resilience review**
July 25, 2023

Staff updated pages on the COG website related to transportation including: the Transportation Alternatives Set-Aside Program, 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:

TPB's Transit Within Reach Program deadline reminder (Retweet July 6), Commuter Connections (Retweet July 5), Think Regionally podcast (July 12), COG EV deployment clearinghouse (Retweet July 14), July TPB Meeting (July 17), Frederick County transportation projects (Retweet July 18), TPB approved Maryland Transportation Alternatives Set-Aside projects (July 19), COG Board commitment to work with WMATA (Retweet July 20), TPB National Capital Freight Plan comment period (July 21), COG Enhanced Mobility program announcement (July 24), ADA anniversary (July 26), TPB Resilience Program (July 28)

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

- Developed a draft scope of work for Visualize 2050 website and graphic design updates.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	\$3,442,357	\$184,938	5%	55

5. TRAVEL FORECASTING

5.1 Network Development

Staff continued outlining network inputs needed from the Project InfoTrak (PIT) database for the upcoming air quality conformity (AQC) analysis of the upcoming 2025 Long-Range Transportation Plan (LRTP), known as Visualize 2050. In July, staff assembled all transit files, reformatted them, rechecked all records, created the two new time periods (“PM Peak” and “Night-Time”) for bus routes based on the GTFS data, and ran the newly developed procedure in COGTools on the database for Quality Assurance/Quality Control (QA/QC). The final database was released on July 27 for review. Staff also plan to develop a new base transit network in FY 2024 reflecting December 2023 conditions.

Staff updated the capacities of road links on two regional screenlines (screenlines #2 and #4) in DC and some of their upstream/downstream links to account for roadside parking in DC in the base-year highway network. Staff also applied the same changes to the 2045 highway network. Staff performed review on the updated link.dbf files and transmitted the base-year link.dbf file to RSG for the Gen3, Phase 2, Model calibration and validation work. RSG staff, in an “apples-to-apples” comparison, showed that the updates to the links associated with screenlines 2 and 4 led to moderate improvements of the traffic volume validation for the two screenlines. Staff plans to update all DC lanes (reflecting roadside parking and new sidewalk space since 2021) this summer.

Staff have been working on an automated procedure in COGTools that will perform QA/QC checks on network files exported from the Unified Network Geodatabase. A prototype procedure was developed in December 2022 and was tested in January 2023. Staff tested the second version of the module and provided feedback in June. The development of this module is currently on hold until the base transit network is completed.

5.2 Model Development and Support

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months. Staff prepared for, ran, and attended the July 21 TFS meeting, which included the following topics:

- Household Travel Survey State-Of-The-Practice Recommendations
- Regional Coordination of Transit On-Board Surveys
- Presentations from the Transportation Research Board Innovations in Travel Analysis and Planning Conference, Indianapolis, Indiana, June 2023: “Sensitivity Testing of Activity-Based Models” (In Session A2: Uncertainty and Model Sensitivity in Scenario Planning and Forecasting)
- Status Report on the COG/TPB Developmental, Disaggregate, Activity-Based Travel Demand Forecasting Model, Known as The Gen3 Travel Model

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. Staff prepared a transmittal package for the model in July. At the July 21 TFS meeting, staff announced the release of the Gen2/Ver. 2.4.6 Model for production use and made the model transmittal package available for data requests. Staff subsequently updated the related COG webpages to include this model.

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 July, this work was on hold and will be resumed after the Round 10 Cooperative Forecasts land use data becomes available.

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 July 6 and 18.
- As the Gen3 Model, Phase 2, development started in March 2022, staff continued to work with RSG on the development of the Phase 2 Model. Specifically,
 - RSG/BMG staff continued to work on the calibration and validation of the Gen3, Phase 2, Model.
 - As part of the Phase 2 sensitivity testing, COG staff started working on two additional tests related to Autonomous Vehicles (AVs) and equity.
 - For the AV test, staff downloaded the latest Gen3 Model code once the AV-related updates were included, conducted a model run for the 2045 baseline scenario, set up the calibration process, and adjusted the AV targets by income segment. Staff are in the process of conducting the AV Ownership Model calibration to match the AV targets for 2045.
 - For the equity test, staff conducted model runs for the 2018, 2045 No Build and 2045 Build scenarios. In the meantime, staff extensively examined the preliminary results from the Python scripts that were created to compute equity indicators such as 45-minute job accessibility for target and control populations. Staff started to generate the equity indicator summary tables for the three scenarios.
 - Per request from RSG, COG staff conducted a re-review of the draft Gen3 Model User's Guide and provided feedback on July 17. The document is now ready for COG's final review.
 - Staff proposed and implemented a methodology to integrate the toll setting process in the Gen3 Model flow. The preliminary test 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.

- COG staff continued to make enhancements and bugfixes to the Gen3 Model. Specifically,
 - COG staff developed a Python based View-From-Space (VFS) summary script. Staff performed QA/QC checks on the preliminary results and shared the script/example results internally for comments.
 - COG staff found a potential discrepancy regarding total number of stops in the ABM Visualizer summary. RSG staff provided clarification.
 - COG staff noticed the discrepancy between the modeled transit share for trips on work tours and the observed transit share for commute trips from the regional household travel survey. Staff discussed the issue both internally and with RSG.
- RSG/COG staff met on July 11 regarding the extension to the current contract (Task Order #5) to cover some of the existing/additional tasks. After the meeting, COG staff developed two memos for a contract amendment (Contract Amendment #2). COG's contracts and purchasing staff reviewed and approved the contract amendment.
- Staff cleaned up the Box online storage site to release some storage space for the Gen3 Model development project.

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.

Other activities

Staff serviced four data requests in July. The requests were all for the Gen2/Ver. 2.4.6 Travel Model with revised transit networks and one of the requestors also asked for loaded-link highway networks for the years 2017, 2021, 2023, 2025, 2030, 2040 and 2045 from the Ver. 2.4.6 Travel Model. The first request was from a consultant working for MD SHA on projects such as the Greenbelt Metro. The second request was from a consultant working for an SHA project for FBI relocation and other projects in the region. The third request was from a consultant working for VDOT to evaluate traffic behavior over a network of tolled facilities and express lanes in Northern Virginia. The fourth was from a consultant working for Fairfax County DOT to support their travel model update.

In July, staff continued the recruitment process for a Transportation Engineer in the Model Development Group, to fill a recent vacancy.

Staff met with Teralytics staff on July 19 regarding Teralytics’ offer of one-year free use of the Teralytics Movement data (2019 data). Following that, staff had an internal coordination meeting on July 21. After the meeting, staff requested and obtained access to the Teralytics data.

Staff attended the ActivitySim Monthly Partners-Only Check-In Meeting on July 20. 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,

- Modeling staff held the monthly check-in meeting with COG IT staff on July 21.
- Modeling staff agreed with IT’s proposal to move archival data to S3 Storage and requested a write-up of the proposal from IT.

Task 6	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$2,922,011	\$144,746	5%	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 conformity timelines to synchronize with development schedules for Maintenance or Attainment State Implementation Plans (SIPs) and new Motor Vehicle Emissions Budgets (MVEBs).

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 MVEBs associated with the 2008 Ozone Maintenance 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 Staff briefed the Metropolitan Washington Air Quality Committee Technical Advisory Committee (MWAQC-TAC) on the public comment period status for each state regarding the updated SIP (item #2).

DEP Staff briefed MWAQC-TAC on the 2023 ozone season status and impacts of recent air quality standard exceedances on meeting the EPA’s 2015 ozone standard design value of 70 parts per billion.

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.

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.

In support of climate change planning activities in the District of Columbia, staff provided VMT estimates by vehicle type and fuel type to the District Department of Energy and Environment (DOEE) staff. In support of air quality planning activities, staff provided MOVES model inputs and outputs to VDOT to facilitate ongoing and future air quality planning activities.

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 began to evaluate a draft version of the most recent developmental MOVES model, MOVES4, and will continue to monitor the model development activities related to the new tool. Staff attended a MOVES4 webinar hosted by the EPA.

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	\$5,344,964	\$137,227	3%	63

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Transportation Research and Analysis

Staff made presentations to the Technical Committee and to the Travel Forecasting Subcommittee on the proposed approach to coordinate transit providers in the region to collection Transit On-board trip information from riders as part of an effort to develop a regional dataset of transit trip information that can be used as part of the regional travel demand forecasting process.

Staff hosted a delegation visit from the Ministry of Land, Infrastructure, and Transport (MOLIT), Korea on July 24 to discuss and hold an informal peer exchange on transportation survey and travel demand modeling approaches.

Staff delivered a presentation on Household Travel Surveys State of the Practice Recommendations to the TPB Travel Forecasting Subcommittee on July 21.

Traffic Trends

Staff finalized the development and cleaning of 2020 and Pre 2020 Arlington Bike/Ped hourly data with modes and directions separated for inclusion in the RTDC. In addition, staff formatted all short-term active transportation data collected for VDOT since 2018 to a similar format for inclusion in the RTDC.

Staff finalized the FY21 Regional Transit Ridership Spreadsheet and provided the transit ridership data for inclusion in the RTDC.

Staff performed the SAS conversion of Round10 Cooperative Forecasts from the COG3722 to TPB3722 system. This included performing checks and working with TFEA team and CPS staff to identify and research anomalies.

Data Requests

Staff responded to data requests including preparing shape files of jurisdictional boundaries for the TPB Planning and Modeled regions and providing guidance to several COG and TPB staff members on GIS data sources and availability.

Meetings & Conferences

Staff met internally and with US Park Service staff about COG/TPB's participation in the Regional Trail Count Program and participated in Regional Trail Count Program quarterly meeting held in July.

7.2 Data Management and Visualization Services

Staff worked 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 staff from Maryland-National Capital Park and Planning Commission to discuss proposed changes and updates to the NCTN in Prince George's County.

Staff worked with the Planning Data and Research Program director to provide resources state DOT staff in support of adjusting urban area and MPO boundaries based on data from the 2020 Census. Staff created a new web mapping application showing proposed smoothed Urbanized areas in Maryland and Virginia.

Staff responded to a question from fellow staff regarding the Equity Emphasis Areas (EEA) download link on a COG website page. Staff provided information on how to update the webpage.

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 continued to perform administrative updates for TPB/COG's ArcGIS Online organizational account, including managing users, adding account access, and organizing content.

Staff completed the prerequisites for upgrading TPB/COG's GIS servers. Staff upgraded the ArcGIS Server software environment and began the process of replacing hardware. Staff worked 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.

GIS Committee/GDX Working Group

Staff planned and participated in the July 17 GIS Committee/GDX Working Group virtual meeting. Highlights of the meeting included: a presentation on Montgomery County Police Department's use of Survey123 as a form-based data collection solution, a presentation on NVRC's Environmental Resiliency Green Roof GIS Project, and the regular status reports on the NCR/GDX, NextGen 9-1-1, and the HSEMA Food and Water Resilience Project.

Data Requests

Staff responded to a data request from the Northern Virginia Transportation Authority (NVRTA) regarding the availability of highway shield cartographic symbology.

Staff responded to a request from Virginia Railway Express (VRE) staff regarding the 2022 Equity Emphasis Areas (EEA) downloadable dataset.

Staff responded to a request from COG Department of Environmental Programs (DEP) staff regarding the availability of a spatial dataset of COG’s regional activity centers.

Meetings & Conferences

Staff attended the TPB Freight Subcommittee meeting on July 6.

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

Staff participated in a meeting with TPB’s PIT database vendor, EcoInteractive, on July 11 to discuss the forthcoming version of the database user interface.

Staff met with Commuter Connections staff to discuss TPB/COG’s HERE Streets subscription for FY24 on July 12.

Staff met with TPB’s resiliency planner to discuss data needs on July 12.
Staff attended the quarterly meeting of the regional trail count program held on July 24.

Staff attended the Region Public Transportation Subcommittee meeting on June 25.

Staff attended the webinar “Sidewalk Inventories: A Tool for Equity and ADA Compliance” on July 26.

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	\$77,767	6%	67

8. REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION

8.1 Regional Land Use and Transportation Coordination

Staff work to support Regional Land Use and Transportation focused principally on the final compilation, review and transmittal of the Round 10.0 Cooperative Forecasts.

Staff worked closely with several member jurisdictions and other agencies to obtain and make final edits to jurisdictional TAZ databases. Staff completed compilation and review of the regional TAZ forecast data during July.

Staff produced the May and June REMS reports, and continued work to compile the 2022 CoStar multi-family residential construction data.

Staff supported the July meetings of the Planning Directors Technical Advisory Committee and the Cooperative Forecasting and Data Subcommittee, which oversee the development of the Cooperative Forecasts used as critical land use assumptions in TPB’s regional travel demand forecasting activities.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
COMPLETE STREETS, MOBILITY AND ENHANCEMENT PROGRAMS	\$1,135,269	\$30,962	3%	69

9. COMPLETE STREETS, MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

During the month of July, TPB staff began conducting pre-application conferences for interested applicant for the 2023 Enhanced Mobility grant solicitation, whose solicitation period runs from run from August 1st through September 30th, 2023). Activities included scheduling, organizing, and conducting pre-application conferences, finalizing application materials and resources, fielding questions and request from prospective applications, and conducting the marketing and communications campaign to inform stakeholders and the public of the upcoming solicitation.

9.2 Regional Roadway Safety Program.

Each of the four FY 2023 projects completed in June, and Staff coordinated with the respective consultants throughout July to invoice and closeout the projects.

Upon finalizing the statements of work for each of the FY 2024 selected projects, Staff issued Task Order Requests (TORs) to a limited number of consultants for each project to solicit proposals.

9.3 Transportation Alternatives Set-Aside Program

In May and June, staff reviewed applications that MDOT had received for the FY 2024 round of TAP funding. TPB staff convened a selection panel at the end of June for two meetings to determine recommendations for funding. The panel’s final recommendations called for funding six projects. TPB staff presented the panel’s recommendations to the TPB Technical Committee on July 7. The TPB approved projects for funding on July 19.

9.4 Transportation/Land-Use Connections (TLC) Program

Staff continued the consultant recruitment process for the 10 TLC projects selected for FY 2024. At the end of June, staff solicited proposals from the program’s 15 pre-qualified consultants. Most of the proposals were due in July. Before the proposal deadlines, staff identified technical selection committees for each of the 10 projects. The proposals were scheduled to be sent to the TSCs at the beginning of August. Final consultant selection for most of the projects is expected in August. The projects will be set to begin in September or October.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB MANAGEMENT AND SUPPORT	\$1,707,259	\$38,184	2%	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 meeting 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 July 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 with 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 JULY FY 2023 includes Telephone / Web Ex / Microsoft Teams Communications:

- COG Board Retreat
- COG State Air Agency Call for TAC Comment
- Metro Discussion / McGuire Woods
- Regional EV Deployment Strategy / E. Morrow
- Title VI Complaint / S. Ellis
- Retreat PPT / P. DesJardin
- MWAQC Executive Committee Meeting
- MWCOG Space Update / Savills
- TOBS / WMATA Update / T. Canan
- Major Metro Roundtable
- ACPAC Virtual Meeting & Climate Awards Judging
- METRO Funding & Economic Development Retreat Debrief / M. Beyrouti Nunez
- TPB Board Meeting
- COG Planning Directors
- Human Services Policy Committee Workforce / J. Schitter
- MOLIT Korea Delegation Meeting / K. Joh
- CRP Discussion / DDOT & TPB Staff
- Region Forward Coalition
- OCFO / G. Lee

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	\$6,350	1%	73
District of Columbia	\$330,930	\$0	0%	73
Maryland	\$707,967	\$0	0%	75
Virginia	\$664,437	\$6,350	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

Staff attended the monthly State Technical Working Group/Technical Committee/Steering Committee/TPB meeting cycle.

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

As part of the Transportation/Land-Use Connections Program, a technical assistance project was partially funded by the District of Columbia Technical Assistance Program. See TLC item above for further details about the TLC Program.

4. Other Tasks to Be Defined

No activity.

11.B Maryland

1. Program Development, Data Requests, and Miscellaneous Services

Staff attended the monthly State Technical Working Group/Technical Committee/Steering Committee/TPB meeting cycle.

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

Staff attended the monthly State Technical Working Group/Technical Committee/Steering Committee/TPB meeting cycle.

Staff prepared a memo outlining recommendations for Active Transportation Data Assurance Program for VDOT 66 Parallel Trail Eco-Counters that are planned to be installed later in the fiscal year. Staff began follow up work, including contacting the traffic monitoring program contractor to review and discuss potential services for this program.

2. Travel Monitoring and Survey

Staff continued work in the FY24 I-66/I-395 Mode Share Study including: reviewing and responding to comments from VDOT/NVTC on the task order, finalizing the task order and related documents, delivering the task order to the on-call travel monitoring contractor for a price quote, accepting the quote, scheduling and facilitating the kick off meeting, and presenting the project overview and work plan during the meeting.

Staff researched the feasibility of conducting vehicle occupancy counts at three additional locations on I-66 outside the beltway. These counts would be an add-on to the mode-share study under a different task order.

Staff reviewed and accepted the data from the active transportation counts that the on-call travel monitoring contractor performed in the Tysons area of Fairfax County in May 2023. Staff approved the invoice from the contractor for this data collection.

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

11.D Regional Transit

1. Program Development, Data Requests, and Miscellaneous

Staff attended the monthly State Technical Working Group/Technical Committee/Steering Committee/TPB meeting cycle.

2. Transit Within Reach

The application period for FY 2024-2025 opened on May 26, 2023, and was scheduled to close on August 4, 2023. Potential applicants had the option to submit an abstract by June 23. Staff provided comments in early July in response to one abstract that was submitted. Throughout July, staff conducted outreach to raise awareness of this technical assistance opportunity and to encourage applications.

3. High-Capacity Transit Map

No activity.

4. Other Tasks to be Defined

No activity.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

Program Management

- Staff arranged logistics for and hosted the July meeting of the Aviation Technical Subcommittee.
- Staff updated the enplanement spreadsheet maintained for the CASP program with the latest reports from MDOT and MWWA.
- Staff reviewed and screened candidates for the open transportation data analyst position that will support the CASP program.

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

- Staff reviewed, discussed, and approved the 2023 APS pretest recommendations memo from the APS contractor, ICF.
- Staff made updates to the sample draw process for the 2023 APS to distribute the sampled flights more evenly across field staff shifts.
- Staff reviewed the raw data from the 2023 APS pretest responses and conducted a review of the data file and variables for data quality and consistency.
- COG/TPB staff has updated the monthly enplanement data.

Air Cargo Element Update

No activity.

Ground Access Travel Time Study

No activity.

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.
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. Development of a new base transit network began, reflecting transit network service in December 2023.
 - b. Updates to networks files
 - i. Gen3 Model networks
 1. Staff updated the capacities of road links on two regional screen lines in DC (screen lines #2 and #4) to account for roadside parking in DC. This was done in the 2018 and 2045 networks.
 - c. COGTools software and geodatabase
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.
 - b. Gen3, Phase 1 Travel Model: Completed in FY 23.
 - c. Gen3, Phase 2 Travel Model
 - i. Sensitivity tests
 1. Test of 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. Equity analysis: 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 nine 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.

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.
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 a MOVES4 webinar hosted by the EPA in July.
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.
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.
6. Air-quality-related data requests: This fiscal year, staff have responded to one air-quality-related data request.

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.
 - Initiated
- 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

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

	DC, MD and VA		BILLED		% FUNDS EXPENDED
	FTA, FHWA and LOCAL	FUNDS	THIS		
	BUDGET TOTAL	EXPENDED	MONTH		
1. Long-Range Transportation Planning					
Long - Range Transportation Planning	1,136,668.51	68,979.5	68,979.5		6%
Subtotal	1,136,668.51	68,979.5	68,979.5		6%
2. Transportation Improvement Program					
Transportation Improvement Program	353,708.82	14,848.31	14,848.31		4%
TIP Database Support	230,000.00	0	0		0%
Subtotal	583,708.82	14,848.31	14,848.31		3%
3. Planning Elements					
Congestion Management Process	833,870.74	28,678.93	28,678.93		3%
Systems Performance, Ops & Tech Planning	430,355.33	19,181.06	19,181.06		4%
Transportation Emergency Preparedness Planning	139,196.00	8,912.64	8,912.64		6%
Transportation Safety Planning	407,497.86	7,033.77	7,033.77		2%
Bicycle & Pedestrian Planning	198,851.96	14,655.93	14,655.93		7%
Regional Public Transportation Planning	573,566.35	19,573.44	19,573.44		3%
Freight Planning	396,491.66	18,494.64	18,494.64		5%
Metropolitan Area Transportation Operation Coord Program Planning	171,139.72	5,767.25	5,767.25		3%
Performance-Based Planning & Programming	216,047.96	7,429.86	7,429.86		3%
Resilience Planning	538,120.51	21,388.48	21,388.48		4%
Subtotal	3,905,138.09	151,116	151,116		4%
4. Public Participation					
Public Participation	753,904.21	45,574.72	45,574.72		6%
Subtotal	753,904.21	45,574.72	45,574.72		6%
5. Travel Forecasting					
Network Development	1,173,454.94	73,466.2	73,466.2		6%
Model Development	2,268,902.50	111,472.78	111,472.78		5%
Subtotal	3,442,357.44	184,938.98	184,938.98		5%
6. Mobile Emissions Planning					
Air Quality Conformity	1,221,950.95	65,171.66	65,171.66		5%
Mobile Emissions Analysis	1,700,061.94	79,575.02	79,575.02		5%
Subtotal	2,922,012.89	144,746.68	144,746.68		5%
7. Travel Monitoring and Data Programs					
Research & Analysis	4,458,336.48	52,795.15	52,795.15		1%
Data Visualization & Management	886,626.84	84,432.01	84,432.01		10%
Subtotal	5,344,963.32	137,227.16	137,227.16		3%
8. Planning Scenarios and Socioeconomic Forecasting					
Socioeconomic Forecasting	1,211,231.11	77,767.71	77,767.71		6%
Subtotal	1,211,231.11	77,767.71	77,767.71		6%
9. Complete Street Mobility and Enhancement Programs					
Transportation and Land Use Connections Program	622,450.01	19,134.76	19,134.76		3%
Enhanced Mobility Grant Program	97,904.69	5,496.15	5,496.15		6%
Transportation Alternatives Set-Aside Programs	37,912.20	4,807.68	4,807.68		13%
Regional Roadway Safety Program	377,004.84	1,524.2	1,524.2		0%
Subtotal	1,135,271.74	30,962.79	30,962.79		3%
10. TPB Support and Management					
TPB Support and Management	1,707,259.82	38,184.82	38,184.82		2%
Subtotal	1,707,259.82	38,184.82	38,184.82		2%
Core Program	22,142,515.95	894,346.67	894,346.67		4%
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	6,350.97	6,350.97		1%
D. Public Transit Technical Assistance					
Program Development & Misc.	512,176.17	0	0		0%
Technical Assistance	2,215,512.06	6,350.97	6,350.97		0%
TPB Grand Total	24,358,028.01	900,697.64	900,697.64		4%

FY 2024 TRANSPORTATION PLANNING BOARD
 FINANCIAL STATUS OF TECHNICAL ASSISTANCE
 July 2023
 SUPPLEMENT 1

	TOTAL		FTA/STA/LOCAL		PL FUNDS/LOCAL	
	AUTHORIZED	TOTAL	AUTHORIZED	FTA	AUTHORIZED	FHWA
	BUDGET	EXPEDITURES	BUDGET	EXPEDITURES	BUDGET	EXPEDITURES
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/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
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	0.00	442.54	0.00	14,556.98	0.00
MARC - VRE Runthrough - VA	185,000.00	0.00	5,458.20	0.00	179,541.80	0.00
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	6,350.97	6,638.36	187.38	218,361.69	6,163.59
Subtotal	664,436.05	6,350.97	19,603.39	187.38	644,832.66	6,163.59
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	6,350.97	562,431.06	187.38	1,653,081.00	6,163.59