

FY 2023



National Capital Region
Transportation Planning Board

Work Program Progress Report

APRIL 2023

FY 2023

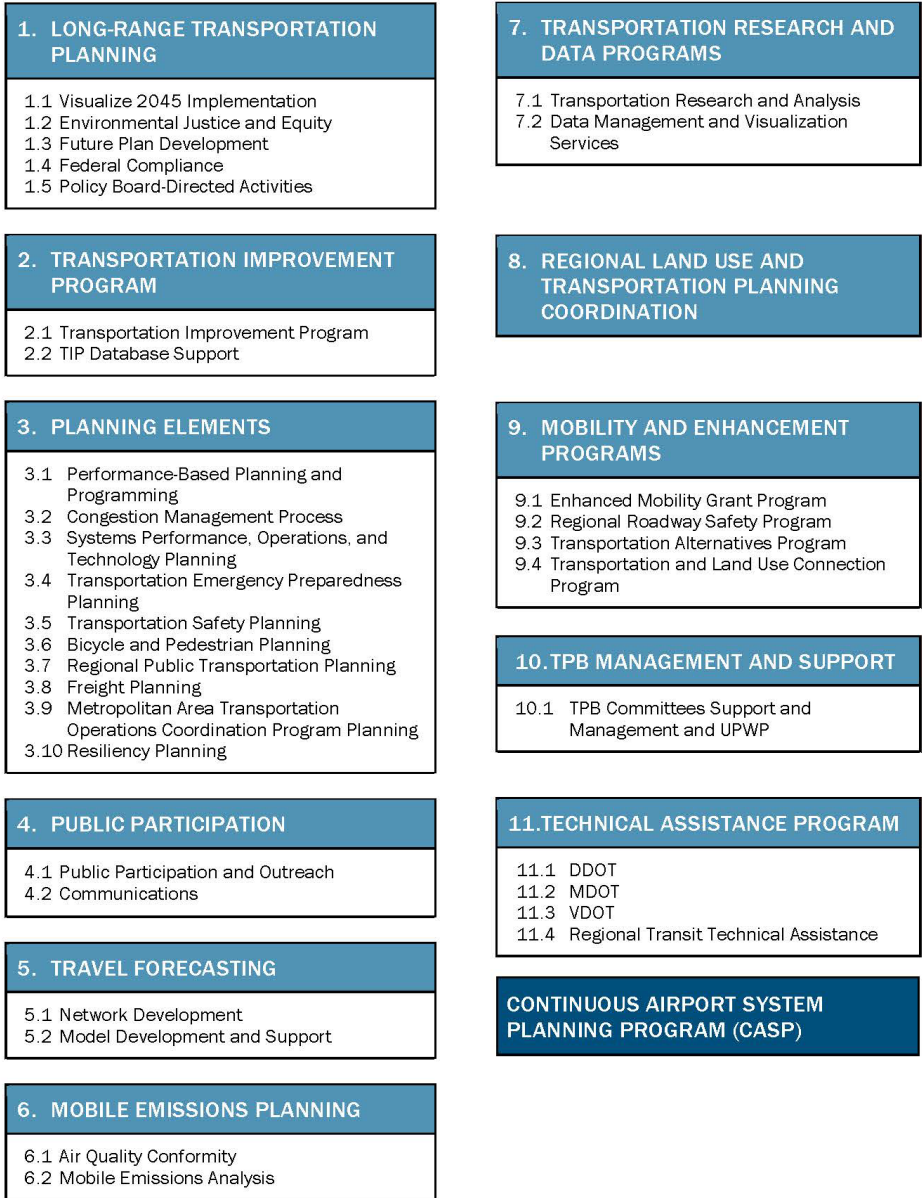
METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS

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The TPB approved its FY 2023 Unified Planning Work Program (UPWP) in March 2022 and amended it in March 2023. The TPB Work Program Progress Report summarizes each activity for April. In addition, this report concludes with status updates reflecting timelines for all ongoing program plans and projects. Please reference the 2023 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	\$1,032,781	\$47,799	61%	35

1. LONG-RANGE TRANSPORTATION PLANNING

1.1 Visualize 2045 Implementation

There has been no activity at this time.

1.2 Environmental Justice and Equity

Staff is undertaking a deeper dive analysis to identify specific mobility and accessibility needs of disadvantaged populations in the region. Staff is examining the relationship between TPB EEAs and the Federal Government-identified Justice40 Disadvantaged Communities. Results will be shared with state, local, and agency partners to consider in their planning and programming activities.

1.3 Future Plan Development

Staff assisted local jurisdictions and agencies working on their inputs for the Visualize 2050 financial analysis, answering questions. The deadline for local jurisdictional inputs was extended to April 28 following the TPB’s approval of the revised Visualize 2050 schedule.

1.4 Federal Compliance

Staff continued to assist the federal partners in the federal certification review.

1.5 Policy Board-Directed Activities

There has been no activity at this time.

	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRANSPORTATION IMPROVEMENT PROGRAM	\$428,463	\$31,218	75%	37

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1 Transportation Improvement Program (TIP)

At its meeting on April 7, 2023, the TPB Steering Committee adopted four resolutions approving amendments to the FY 2023-2026 Transportation Improvement Program (TIP) as requested by DDOT, MDOT, VDOT, and TPB staff, as described below:

- TPB SR22-2023 – requested by DDOT to add net total of \$432 million for the Citywide Streetlights P3 project (T6625), the Size and Weight Enforcement Program, and the Planning Activities Passthrough (to MWCOC).
- TPB SR23-2023 – requested by DDOT on behalf of the TPB to add \$125,000 from the FTA’s Innovative Coordinated Access and Mobility (ICAM) WMATA for improvements to the Reach-a-Ride platform (T11628) to be administered by Commuter Connections.
- TPB SR24-2023 – requested by MDOT to add approximately \$1.9 million the Transit Oriented Development (TOD), Purple Line Corridor.
- TPB SR25-2023 – requested by VDOT to add \$58.6 million for the Northstar Blvd. Extension project (T11614).

These amendments were processed through Project InfoTrak under TIP Actions 23-15.1 (DDOT and TPB), 23-15.2 (MDOT), and 23-15.3 (VDOT). All projects and programs amended are exempt from

the air quality conformity requirement, save for the Northstar Boulevard Extension project which was included in the Air Quality Conformity Analysis of the 2022 Update of Visualize 2045 and the FY 2023-2026 TIP.

TPB staff also processed Administrative Modifications for two projects for DDOT under TIP Action 23-16.

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 completed in April under the baseline maintenance and support contract included:

- Allow sponsors to amend projects that have an in-progress version in a later Cycle
- Add 'Municipalities' as a filter to Conformity Information and Project Description Reports
- Update login page to ask for email instead of User ID
- Update fund ID from FASTLANE to BAB
- Update default filters when amending projects to exclude completed/deleted projects

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

- Update fields in Overarching Projects
- Add 'Component Projects' section to Overarching Projects
- Allow OAPs to have multiple lead agencies selected
- Change 'Model' field to 'Regionally Significant', limit to admins
- Update to logic for when mapping is required to exclude certain location types

Further work continued or began in April under the professional services contract:

- Updates to Obligation Balance Report
- Add new fields to the project page
- Have Bike/Ped Plan section appear based on project type
- Require projects in adoptions to have mapping viewed prior to submittal
- Project Description field overflow updates
- Update working on My TIP List
- Add page to Project Description Report to show filters used
- Updates to Amendment Summary Report
- Updates to LRTP Funding section

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	\$2,639,123	\$122,614	60%	39

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

Staff assisted with follow-ups from the federal certification review.

3.2 Congestion Management Process

Staff prepared for an overview presentation on the Congestion Management Process to be given to the TPB at its May meeting.

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 April 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

The Transportation Safety Subcommittee met virtually on April 11. The agenda included a briefing by the DowntownDC BID on its Pedestrian Safety and Experience Study.

TPB staff also held planning sessions on April 25 with the Transportation Safety Subcommittee Chair to identify topics and speakers for future Safety Subcommittee meetings.

3.6 Bicycle and Pedestrian Planning

Staff organized and held a regional workshop on Dockless Micro mobility on April 24.

Staff attended the Capital Trails Coalition Steering Committee on April 11, followed up individually with the Bike/Ped Subcommittee members regarding their district’s updates to the National Capital Trail Network, and compiled the results into a spreadsheet.

Staff attended the Maryland Highway Safety Summit at the Maritime Conference Center on April 12.

Staff provided comments and technical corrections on the Commuter Connections Bike to Work Guide, and planned a COG staff bike ride to be held the day before Bike to Work Day.

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee met in-person/hybrid in April. The theme of the meeting was the state of the transit workforce, with speakers from APTA, WMATA, Prince George’s County, consultants and think tanks. There were also updates on the WMATA Better Bus effort and plans for a scanning tour of the VRE Broad Run yard in May (when no RPTS meeting is held).

Staff supported a TPB work session on the WMATA Better Bus effort ahead of the April 19 board meeting, including providing an overview presentation. Staff prepared letters of endorsement for local jurisdictions applying for federal grants.

Staff attended the monthly WMATA JCC and NVTC MAC meetings, a WMATA Better Bus Network Redesign technical committee meeting and a NVTC zero emissions bus working group meeting. An On-Call Planning task order request for proposal was issued to obtain consultant assistance on a study of local bus transit and access to High-Capacity Transit stations.

3.8. Freight Planning

The Freight Subcommittee met virtually on April 13. The agenda included a briefing by the Virginia Department of Transportation (VDOT) and Maryland Department of Transportation (MDOT) on their National Electric Vehicle Infrastructure (NEVI) deployment plans, and an update by TPB staff on the progress of the National Capital Region Freight Plan Update.

TPB staff also held a planning session on April 19 with the Freight Subcommittee Chair to identify topics and speakers for future Subcommittee meetings.

A contract modification was issued to COG’s Freight Plan Update consultant to expand the Freight Plan scope of work to include an analysis of freight and hazardous materials transport impacts on equity emphasis areas, as well as an assessment of ports critical to regional freight. The modification also extended the consultant’s agreement by one month, through June 2023.

3.9 Metropolitan Area Transportation Operations Coordination Program Planning

The regularly scheduled April 11 MATOC Severe Weather Coordination Working Group virtual meeting was organized and conducted, concluding this season’s coordination for the region’s winter weather response.

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

3.10 Resiliency Planning

Staff kicked off the Phase II Transportation Resiliency Study with the contractor, ICF. Project work started in mid-April 2023, final task predicted to close out at the end of June 2024. Work completed on this project during April 2023 included identifying potential working group members and sending out an invitation for participation, receiving and reviewing the draft work plan for the Phase II study, and attending bi-weekly meetings to check in on the progress of the project.

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 (ex: new FHWA trails as resilient infrastructure report, transportation resilience framework for informed choices). Transportation Planner IV coordinated with other resiliency staff within COG to ensure continuity of work across the region and organization. Transportation planner IV reviewed and consulted on Transportation Land-Use Connections (TLC) project application that features green infrastructure, a topic which directly incorporates transportation resiliency, and eventually helped to revise the statement of work for the project which was approved to move to the next stage. Transportation planner IV will serve as the TPB liaison for this project.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	\$913,276	\$37,538	56%	45

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

The April meeting of the 2023 - 2024 TPB Community Advisory Committee (CAC) was held on Thursday, April 13. The committee discussed the TPB’s Coordinated Human Services Transportation

Plan (Coordinated Plan), and TPB and CAC role in the long-range planning process. The meeting was held virtually on Microsoft Teams.

The Access for All Advisory Committee (AFA) met virtually on Monday, April 24. The committee discussed the draft 2023 Coordinated Plan, the FY 2024 Transportation Land Use Connection (TLC) program's recently approved projects, Healthcare Transportation roundtables held in Maryland, and the ongoing Montgomery County Ride On bus network redesign.

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

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

The 30-day public comment period for the TPB's Coordinated Human Service Transportation plan began on April 13. The public comment period was promoted through a variety of channels including: an advertisement in the Washington Post, TPB's social media, TPB News, relevant TPB committees, and several webpages (Coordinated Plan, Enhanced Mobility, and TPB Comment Form).

4.2 Communications

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

- 1) TPB supports 10 D.C. area planning projects that promote walkable, transit-oriented communities
April 19, 2023

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

- TLC Technical Assistance
- Public Involvement Process
- Enhanced Mobility
- Human Service Transportation Coordination
- Access for All Advisory Committee
- Community Advisory Committee

Staff shared information about TPB activities via social media:

Register for TPB's Vibrant Communities TLC webinar (April 6), Gear up for this year's Bike to Work Day (April 7), 2050 Maryland Transportation Plan (Retweet April 6), COG forecast update (Retweet April 13), MTA Maryland train service expansion (April 14), COG Street Smart campaign (Retweet April 17), TPB Meeting announcement (April 17), TPB Better Bus Work Session (April 17), TLC webinar reminder (April 18), Coordinated Human Service Transportation Plan comment period (April 18), Metro Potomac Yard opening (Retweet April 19), Bike to Work Day proclamation (April 19), TLC projects approved (April 20), Better Bus visionary network (April 24), Frederick received TLC funding (April 24), VDOT Spring Meeting (April 27), Annual NOVA Joint Transportation Meeting (April 27)

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	\$2,682,641	\$113,486	69%	47

5. TRAVEL FORECASTING

5.1 Network Development

Staff developed a 2025 transit network for a sensitivity test requested by transit operator.

To be prepared for possible changes, staff began development of documentation for an update to the bus fare matrix reflecting free fares in the District of Columbia for Metrobus riders.

Staff continued development of a new base transit network, based on transit service in December 2022, for use in the upcoming air quality conformity (AQC) analysis of the 2025 update to the Long-Range Transportation Plan (LRTP). This work included review of downloaded and reformatted General Transit Feed Specification (GTFS) data. Staff also plan to develop a new base transit network in FY 2024 based on December 2023 service levels. In April, staff started to work on the second round of GTFS data matching, based on the manual match table.

Staff continued to work on an automated procedure in COGTools that will perform Quality Control/Quality Assurance (QC/QA) checks on the network files exported from the Unified Network Database. A prototype procedure was developed in December 2022 and was tested in January. In April, staff developed the second version of the QC/QA module of COGTools, with several improvements, and addressed feedback received during the testing. A second round of testing is underway.

Staff started to explore the possibility of managing the COGTools source code files using version control software such as Git and GitHub. Staff installed version control software and created a GitHub account. Staff also created a GitHub repository and uploaded the latest COGTools files there.

5.2 Model Development and Support

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months, so it did not meet in April. Nonetheless, staff started preparing the highlights for the May 19 TFS meeting.

Updating of the MWCOG model development strategic plan, last updated in 2015, is currently on hold due to other work priorities.

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 air quality conformity analysis of the 2025 update of the LRTP. Staff tested the model on various computing platforms.

Staff documented the migration of the mode choice application software, from AEMS to TRANSIMS ModeChoice, in the Gen2/Ver. 2.4.6 Model, in a memo dated April 19, 2023. Staff shared the memo with DTP and AECOM staff.

Staff are preparing the Gen2/Ver. 2.4.6 Model transmittal package, aiming to prepare it for production use this summer. In April, staff started to update the Gen2 Model User’s Guide. Staff also created flowcharts for the Gen2/Ver. 2.4.6 Model.

In preparation for the 2025 LRTP update, staff started to implement changes to model code/input files to accommodate the new horizon year of 2050 in the Ver. 2.4 Travel Model. In April, this work was on hold, but staff plans to resume the work after the Round 10 Cooperative Forecasts data become 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 April 13 and 27.
- 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.
 - In support of Phase 2 sensitivity testing, COG staff:
 - Sent the input files for two existing sensitivity tests to BMG on April 19.
 - Proposed methodologies for two additional sensitivity tests on April 19. RSG and other COG staff provided feedback on April 27.
 - RSG finished the first draft of Gen3 Model User's Guide and sent it to COG for review on April 26. COG staff provided additional references per request from RSG.
 - COG staff successfully executed the Autonomous Vehicle (AV) Ownership Model calibration process using the small-area model. RSG sent instructions on conducting the calibration for the full Gen3 Model on April 24.
 - Staff prepared the year-2045 inputs files for the Phase 2 Model and used them for multiple 2045 model runs.
 - Staff developed a draft of the flowcharts for the Phase 2 model and shared it with RSG on April 13.
 - Staff proposed a methodology to integrate the toll setting process in the Gen3 Model flow. Staff implemented the proposed methodology, conducted test runs for the base and horizon years, and examined the results.
 - COG staff continued to make enhancements and bugfixes to the Gen3 Model.
 - RSG developed an agenda, a detailed training plan and a prerequisite file for the upcoming Gen3 Model Training. COG staff reviewed the documents and prepared for the training.

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 three data requests in April. All of them were for the Gen2/Ver. 2.4 Travel Model with revised transit networks. Two of them were from consultants, one working to test the impacts of planned network and other future improvements, and the other one working on a Loudoun County Route 7 safety and operational study. The third request was from George Mason University working on climate change and adaptation impacts on greenhouse gas (GHG) emissions for a USDOT University Transportation Center.

Staff also responded to an inquiry from Mead & Hunt regarding the compatibility of Cube 6.5 with the Gen2/Ver. 2.4 Model and from Arlington County regarding usage of data from StreetLight Data.

TFEA staff had a meeting on April 11 to discuss modeling results conducted for a transit scenario study.

Staff attended the ActivitySim Monthly Partners-Only Check-In meetings on April 20. Staff attended ActivitySim Consortium meetings regularly on Tuesdays and Thursdays.

Staff began using AWS cloud servers to conduct day-to-day travel demand modeling work. Staff worked with COG’s IT department to resolve issues encountered on the AWS servers. Specifically,

- Staff held a monthly check-in meeting with IT on April 21.
- Staff conducted multiple model runs of the Gen2/Ver. 2.4 Model and Gen2/Ver. 2.4.6 Model using AWS servers to verify the stability of conducting model runs on the new cloud servers.
- Staff investigated a random model crash and provided a fix by changing the threshold at which warning messages and errors are caught and reported by the travel model application process.
- Staff worked with IT to set up a on an on-premises Virtual Machine server (tms5-vm) with Cube 6.4.1 and Windows Server 2019. Staff conducted some testing of the Ver. 2.4 Model on this server.
- Staff continued to work with Bentley to investigate the issues associated with running the Gen2 Model on AWS servers. Staff asked Bentley to conduct their own independent testing on their cloud servers.

Staff migrated the remaining 2023 Travel Forecasting Subcommittee meeting reservations from COG’s Meeting Room Manager (MRM), which is being phased out, to COG’s new Resource Scheduler software.

Task 6	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$2,265,565	\$107,591	69%	51

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 2024/2025 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 plans related to 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. TPB staff continued to work on the documentation (appendices) for the plan document. TPB staff also prepared a technical memorandum and a slide presentation and presented the MOVES3 inventories with recommended MVEBs for the 2025 and 2030 forecast years for the plan to the TPB Technical Committee (item #9). The recommended MVEBs included a 20% safety margin beyond the inventory levels, designed to account for any future uncertainties. DEP staff provided updates on the MVEB development process to the Metropolitan Washington Air Quality Committee - Technical Advisory Committee ([MWAQC-TAC], item #2).

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 conduct meetings with the state departments of transportation to coordinate activities 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 also briefed the TPB Technical Committee on the CRP and its elements (item# 8).

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 and the upcoming REVD Working Group meeting in May. In support of this activity, staff held internal meetings to prepare for the Regional Electric Vehicle Deployment Plan for Metropolitan Washington project, whose purpose is to assess the infrastructure needs across the region to support the transition of light-duty vehicles from fossil fuel to electric power.

In support of EV and climate mitigation planning, staff attended relevant webinars/workshops, including a Greater Washington Region Clean Cities Coalition (GWRCCC) in-person event "Growing EV Charging Capacity in the DMV," a Replica webinar "Data Driven Climate Action," and a Federal Highway Administration webinar "Carbon Reduction Strategy: State Practices 2." Staff also continued to monitor developments related to the two new federal grant programs - the Climate Pollution Reduction Program (CPRG) and the Charging and Fueling Infrastructure (CFI) Discretionary Grant Program.

Staff shared and outlined an MWAQC comment letter with the TPB (Director's Report). The letter to the EPA expressed concerns about the recently released draft guidance on the preparation of State Implementation Plan provisions that address the nonattainment area contingency measure requirements for ozone and particulate matter.

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 GHGs.

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	\$2,199.575	\$71,549	56%	53

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Transportation Research and Analysis

- Staff continued to explore and gather information to develop recommendations for the approach to the next household travel survey. Staff met with: (1) FHWA staff to discuss the add-on to the NextGen NHTS core survey and passively collected origin and destination data for the TPB region, (2) VDOT staff to discuss their experience with the NextGen NHTS core survey add-on, and (3) MDOT staff to discuss the state of the practice for household travel surveys and the NextGen NHTS.
- Staff completed a memo with recommendations for regional coordination on transit trip data collection and provided it to leadership for review and consideration.
- Staff provided a geodatabase table with updated 2020 and 2021 Average Annual Daily Traffic (AADT) by station for the District of Columbia, Maryland, Virginia, and West Virginia jurisdictions within the TPB modeled region for use in the Regional Transportation Data Clearinghouse (RTDC).
- Staff revised the Vehicle Miles Traveled (VMT) trends workbook to include three separate sheets showing: Year to year changes and cumulative growth in weekday VMT for the TPB Planning Region and the TPB Modeled Region as well as the three jurisdictional groupings of the TPB Modeled Region including the Regional Core, the Inner Ring, and the Outer Ring; Weekday VMT by Functional Classification for the TPB Planning Region, the TPB Modeled Region, and the Regional Core, the Inner Ring, and the Outer Ring for the most recent three years; and VMT per Capita showing population and VMT per capita for the years 2005 to 2021 for the TPB Planning Region and the TPB Modeled Region. These sheets also contain charts of the regional and subregional data.
- Staff updated the regional Highway Performance Monitoring System geodatabase feature classes (including all jurisdictions in the TPB Modeled Region) for the years 2016 through 2020 to include consistent items and naming conventions. Each of these HPMS files has unique identifiers so that they can be joined with pavement condition measurements developed for each year. These feature classes were prepared for use in the RTDC.
- Staff provided guidance to an intern summarizing weekday transit ridership data from the data collected from various transit providers for inclusion in the RTDC.
- Staff input pre-2020 Arlington bike and pedestrian raw data into SAS to begin to prepare it for inclusion in the RTDC.
- Staff prepared an update on the status of pursuing a regional active transportation count program and submitted it to the Planning Data and Research Program Director. Staff also corresponded with the National Park Service about the program that they have been supporting.
- Staff provide support and guidance on tools to support analysis of high-capacity transit station including Transportation Analysis Zones and walksheds to staff in the Department of Community Planning and Services.

Data Requests

- Staff fielded a RTS data request from Whitman, Requardt & Associates.
- Staff prepared a summary of traffic volumes in downtown DC using continuous count station data.

Meetings & Conferences

- COG/TPB staff participated in biweekly meetings with the Gen3 Model Development Team.
- Staff participated in the Regional Trail Count Program Quarterly meeting on April 18.
- Staff attended the AMPO GIS and Data Visualization Interest Group Quarter 2 webinar held on April 24.
- Staff attended the AADT 2022 for ALL Roads webinar put on by Streetlight on April 26.

7.2 Data Management and Visualization Services

- Staff began to review comments received from jurisdictional staff regarding updates to the National Capital Trail Network (NCTN) map and underlying database. Staff will be working closely with TPB's bicycle and pedestrian planner in the coming months to ensure NCTN changes are applied to the map products and datasets (static and online) as well as in the Project InfoTrak (PIT) database.
- Staff met with COG website staff, communications staff, and its on-call consultant to begin developing an online tool summarizing grant funding opportunities under the Bipartisan Infrastructure Law and the Inflation Reduction Act. The webtool will be available in June.
- Staff supported Transportation and Land Use Connections (TLC) program staff with updating geospatial data used on the TLC/TAP maps and application. Staff implemented all changes received to date. This work is ongoing.
- Staff continued to collaborate with the Plan Development and Coordination team regarding comparison of TPB's Equity Emphasis Areas geography with the and Justice 40. Staff held an informal meeting on April 18 to review the results of preliminary analysis.
- Staff continued to support the Commuter Connections staff by making corrections and adjustments (received from event sponsors and partner agencies) to the Bike to Work Day pit stop map.
- 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 continues to collaborate and refine Vehicle Miles Traveled (VMT) data shared in the RTDC. Staff responded to a question from COG's Department of Community Planning and Services (DCPS) staff regarding the dataset of walkshed polygons created for TPB's High-Capacity Transit (HCT) stations as part of the Transit Within Reach project.
- Staff updated aviation-related datasets (Enplanement data and Aviation Analysis Zones (AAZ) available in the Regional Transportation Data Clearinghouse (RTDC).
- Staff continued to perform administrative updates for TPB/COG's ArcGIS Online organizational account, including managing users, adding account access, and organizing content.
- Staff began conversations with COG's Information Technology staff on developing a plan for hardware and software specifications that will be used to migrate the current GIS server hardware and software to a virtual environment. Staff developed technical requirements and shared with IT staff. This work is ongoing.
- Staff also discussed with TPB's GIS software vendor, Esri, to begin planning the GIS server software version upgrade done with TPB's server migration described above. This work is ongoing.

GIS Committee/GDX Working Group

- Staff began to plan the agenda for the May 16 GIS Committee/GDX Working Group meeting. Staff represented the GIS Committee at the April 20 CIO meeting.

Data Requests

- Staff responded to a request from a consultant for TPB’s Equity Emphasis Areas (EEA). Staff directed the requestor to the “All Data for Equity Emphasis Areas (2016-2020 ACS)” dataset in the RTDC.

Meetings & Conferences

- Staff attended and participated in the Maryland State Geographic Information Committee (MSGIC) executive meeting on April 12 and spring quarterly meeting on April 21.
- Staff attended the AMPO GIS and Data Visualization Interest Group Quarter 2 webinar held on April 24.
- Staff attended the TPB Freight Subcommittee on April 13.
- Staff attended the Dockless Micromobility Workshop held by TPB on April 24.
- Staff attended the April meeting of the TPB Regional Public Transportation Subcommittee (RPTS) on April 26.
- Staff attended the Region Forward Coalition meeting held on April 28.
- Staff attended the Regional BikePed Portal Dashboard Feedback Meeting with NPS and consultant staff on April 3.
- Staff attended the Regional Trail Count Program - Quarterly Meeting held on April 19.
- Staff met with staff from Esri on April 17 to discuss technical strategies and scenarios related to the ongoing work to migrate TPB’s ArcGIS Server instance.
- 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	\$1,115,429	\$57,208	71%	57

8. REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION

8.1 Regional Land Use and Transportation Coordination

- Staff continued work on reconciliation of the Round 10 econometric model and the revised draft jurisdictional projections. DCPS staff presented the draft regional Round 10.0 Cooperative Forecasts to the COG Board on April 12.
- The Planning Directors Technical Advisory Committee approved the revised draft jurisdictional Round 10.0 Forecasts and recommended their transmittal to the COG Board. Staff will brief the Board at their May meeting on the jurisdictional Round 10.0 Forecasts, with approval likely during June.
- Provided CASP staff with guidance on the use of and sources of employment and population estimates.
- Staff completed an article on racial equity activities at other MPOs that was subsequently published by the APA’s Regional and Intergovernmental Division.
- Staff began preparing a presentation on TPB’s Equity Emphasis Areas to be delivered at the EPA Mid-Atlantic Summit in May.
- Staff was interviewed by the Washington Business Journal on post-pandemic “return to office” trends in the National Capital Region.

- Staff attended a 2-day joint meeting of the Technical Committee and Policy Committee of the Association of Metropolitan Planning Organizations.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	\$1,082,497	\$132,242	52%	59

9. MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

During the month of April, staff finalized the draft 2023 Update to the Humans Service Transportation Coordinated Plan, began the public comment solicitation period, presented the draft update to the Access for All Advisory Committee, Community Advisory Committee, TPB’s Technical Advisory Committee, and introduced the plan for action to the Transportation Planning Board. The solicitation period began on April 15, 2023, and concludes on May 15, 2023, and included targeted outreach to Older Adults and People with Disabilities through the TPB’s Access for All Advisory Committee as well as outreach through its normal public engagement channels as guided by the TPB’s Public Participation Plan.

Staff also began planning and preparing for the 2023 Enhanced Mobility grant solicitation expected to begin in Summer of 2023.

9.2 Regional Roadway Safety Program.

The FY 2024 Regional Roadway Safety Program Selection Panel convened on April 21 and selected projects to recommend for TPB approval.

Each of the four (4) FY 2023 projects is currently underway with progress as follows.

- VA (City of Alexandria – Duke Street Safety Improvements) – The consultant reviewed and summarized public survey comments, held a walk audit debrief with City of Alexandria staff, and held a virtual design workshop with City staff.
- MD (Maryland National Capital Park and Planning Commission/M-NCPPC – Walker Mill Road Improvements) – The consultant coordinated with M-NCPPC staff in preparation for a public meeting.
- MD (Prince George’s County – Pedestrian Road Safety Audits) – The consultant coordinated and conducted an audit of the project site with County staff and stakeholders.
- MD (City of Rockville Beall Avenue Feasibility Study) – The consultant completed and delivered preliminary corridor and intersection concepts for the City to review. City staff provided comments.

Four of the five FY 2022 RRSP projects are complete, and progress on the remaining project is described below:

- VA (Fairfax County – Harrison Road Improvements) – The consultant delivered a draft final report to Fairfax County staff for review and confirmed that the County had no additional edits. This project is complete.

9.3 Transportation Alternatives Set-Aside Program

Staff sent targeted emails to Maryland member jurisdictions to announce the beginning of the TAP application period. The application period opened on April 14 and was scheduled to close on May 15.

9.4 Transportation/Land-Use Connections (TLC) Program

Work on all 11 TLC projects for FY 2023 was underway. See below:

- Safe Routes to School Walk Audits Phase 2 (Alexandria) - Walk audits were conducted on March 21, March 29, and April 14 at the following: George Washington Middle School, Ferdinand T. Day Elementary School, and Alexandria City High School.
- Independence Avenue Corridor Study (DC) - Based on data gathering results and client feedback from the March design workshop, the consultant worked Multimodal Analysis and Development of Finding, which was estimated to be 75% complete as of the end of April. This project is on schedule.
- Delivery Microhub Feasibility Study (DC) - The consultant team refined a technical memo on site selection criteria, which was discussed and edited. Preparations were made for stakeholder interviews.
- New Design Road Bikeway Study (Frederick Co) - The project was completed in February.
- Olde Towne to Washington Grove Bicycles Connection (Gaithersburg) - The city shared with the contractor about a project that might be relevant with this current project.
- Active Transportation Study (Manassas Park) - The consultant and city staff presented draft recommendation to Manassas Park City Manager. The consultant also continued to work on a prioritization analysis and a cost estimation in April.
- Montgomery Co Streetlight Standards (Montgomery Co) - Consultant completed Streetlight Design Guide, which was delivered to Montgomery County on May 1st.
- Commuter Garage First-/Last-Mile Study (Prince William Co) - Monthly meeting was held where consultant provided updates and discussed the project timeline. During the meeting, the consultant went over recommendations and their approach to the recommendations. The second technical memorandum is expected to be delivered in the next weeks.
- Fleet & Monroe Streets Complete Streets Feasibility Study (Rockville) - The Consultant will gather public input on the designs. The Consultant will filter the comments from the public and incorporate them into the designs along with the City comments. After incorporating the comments, the Consult will provide the City with the final designs.
- Takoma Park Metropolitan Branch Trail Upgrade (Takoma Park) - The contractor received the remaining City agency comments on the draft 30% design plan and continued work on the Design Report.
- New Ave Bikeway - District Connector (Takoma Park) - The contractor received the remaining City agency comments on the draft 30% design plan and continued work on the Design Report.

The FY 2024 TLC Selection Panel met on March 28 and 31 and selected 10 projects for funding. Staff presented the recommendations to the TPB Technical Committee on April 7. The TPB approved them on April 19. At the end of April, staff initiated the consultant selection process for the new projects.

Staff conducted a webinar on April 20 called "Promoting Vibrant Communities and Safer Roads: A webinar celebrating 15 years of planning assistance to local governments in metropolitan Washington." The webinar featured presentations from nine projects funded in 2022 through the TLC program, as well as the Regional Roadway Safety Program and the Transit Within Reach Program. A recording of the 75-minute webinar was posted on the website. AICP members who watch the webinar are eligible for 1.25 ACIP credits.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB MANAGEMENT AND SUPPORT	\$989,546	\$40,899	47%	61

10. TPB MANAGEMENT AND SUPPORT

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 and 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 APRIL 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 to 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 APRIL FY 2023 includes Telephone / Web Ex / Microsoft Teams Communications:

- Background/ Orientation – City of Takoma Park
- CAO’s Monthly Meeting
- SYIP & Joint Legislative Meeting – VDOT
- Members of the Public & CAC Teams Meeting
- COG Budget & Finance Committee
- EPA Mid-Atlantic Planning Summit – Discuss COG Presentation &@ EEAs
- COG Retreat Plannings on Economic Development & Metro – C. Mercer
- Maritime Administration (MARAD) Outreach Phone Call
- COG Executive Board Committee / METRO Funding Discussion
- Bike to Work-Day – COG’s staff event planning
- Region Forward Coalition Meeting

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	\$1,249,736	\$51,381	32%	63
District of Columbia	\$279,633	\$5,092	9%	63
Maryland	\$442,970	\$9,340	28%	65
Virginia	\$334,844	\$36,008	35%	68
Regional Transit	\$192,288	\$940	69%	71

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.

Staff communicated with DDOT on an upcoming a data vendor open house planned for May and also arranged a meeting to review the overall Technical Assistance program.

2. Regional Roadway Safety Program

As part of the Regional Roadway Safety Program, technical assistance projects were partially funded under the District of Columbia Technical Assistance Program. See Regional Roadway 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 (TLC), a technical assistance project was partially funded by the District of Columbia Technical Assistance Program. See TLC item above for further details about this 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.

Staff coordinated with MDOT to finalize the level of contribution to the Regional Roadway Safety Program.

2. Project Planning, Feasibility, and Special Studies

No activity.

3. Transportation / Land Use Connections Program

As part of the Transportation/Land-Use Connections Program (TLC), technical assistance projects in Maryland were fully or partially funded through the Maryland Technical Assistance Program. See TLC item above for further details about the program.

4. Regional Roadway Safety Program

As part of the Regional Roadway Safety Program, technical assistance projects were partially funded under the Maryland Technical Assistance Program. See Regional Roadway 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 obtained more information for the Eco-Counter Data Quality Assurance Assistance Project which was used to refine the proposed project approach and prepare the task order for short-term counts and field observations. Staff also received installation and maintenance guides, cost of Eco-Visio license, and information about installation dates from VDOT. Staff issued the Task Order request for short-term counts to the on-call traffic monitoring contractor. Staff also attended the installation of the first set of Eco-Counter stations on April 24th.

Staff began updating resources to support the I-66 and I-395 Mode Share Studies scheduled for FY 2024.

2. Travel Monitoring and Survey

Active Transportation Counts

Staff continued the analysis of the fall 2022 active transportation counts.

Staff received and accepted the estimate for the task order for consultant services to conduct the spring 2023 active transportation counts. Staff worked with the consultant and VDOT staff to schedule the kickoff meeting.

Staff reviewed VDOT active transportation Eco Counter materials for the Transform 66 project and visited two sites to observe the installation process.

3. Travel Demand Modeling

No activity.

4. Transportation / Land-Use Connections Program

As part of the Transportation/Land-Use Connections (TLC) Program, technical assistance projects in Virginia were fully or partially funded under the Virginia Technical Assistance Program. See TLC Program section of this progress report for more details.

5. Regional Roadway Safety Program

As part of the Regional Roadway Safety Program, technical assistance projects were partially funded under the Virginia Technical Assistance Program. See Regional Roadway 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

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

2. Transit Within Reach

Staff continued to prepare for the FY24/25 project solicitation period.

3. High-Capacity Transit Map

Staff reminded members of the Regional Public Transportation Subcommittee at its April meeting to provide any input on the criteria used to define bus rapid transit (BRT).

4. Other Tasks to be Defined

No activity.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM**Program Management**

- Staff submitted the Airport Improvement Program grant application, accompanying required federal forms and certifications, and the transmittal letter to the Federal Aviation Administration. This grant would fund the 38th phase of the Continuous Airport System Planning Program.
- Staff updated the monthly enplanement data.
- Staff interviewed a candidate for the Regional Air Systems Planner and subsequently extended an offer. After the offer was declined, staff began to brainstorm how the position and corresponding responsibilities can be reframed and readvertised.

Conduct and Process 2022/23 Baltimore-Washington Regional Air Passenger Survey (APS), Phase 1

- Staff updated the sampled flights for the 2023 APS pretest to improve the efficiency of field staff.
- Staff coordinated with Metropolitan Washington Airports Authority (MWAA) staff to obtain a secure room at Dulles International Airport (IAD) during the pretest.
- Staff provided oversight during the 2023 APS pretest operations training conducted by ICF (contractor).
- Staff coordinated the internal review, with legal, of the survey incentive plan.
- Staff reviewed and provided comment on the following material in support of the pretest: (1) 2023 APS pretest dashboard, (2) 2023 APS web survey, (3) printed materials for the 2023 APS pretest and provided feedback.
- Staff conducted site visits to IAD and observed field staff conducting interviews with air passengers on the sampled flights over four days at IAD on April 18, 19, 28, and 30).
- Staff met with ICF staff after the first two days of the pretest to discuss modifications for the last two days of the pretest.
- Staff participated in biweekly meetings with ICF for the 2023 APS.
- Staff reviewed and approved an invoice from ICF.

Air Cargo Element Update

- No activity

Ground Access Travel Time Study

- Staff continued working on the Ground Access Travel Time (GATT) study and conducted a demo analysis of five routes to each of the three airports.

PROGRESS ON PLAN PRODUCTS

Task 5. Travel Forecasting

1. Staffing the TPB Travel Forecasting Subcommittee (TFS). In FY 23, the TFS met five times, on the following dates: 7/22/22, 9/23/22, 11/18/22, 1/27/23, and 3/24/23.
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. COGTools software and geodatabase
 - i. Added features: Staff developed a new Station Management module. Staff made updates to the transit agency drop-down menu.
 - ii. Bug fixes: Implemented a fix so that records in the transit line files do not extend past the 144-column limit.
 - iii. Staff developed an automated procedure in COGTools that will perform QA/QC checks on transportation network files exported from the Unified Network Database.
 - b. Detected network coding error, known as the 15000-series node error, which blocked some park-and-ride (PNR) and kiss-and-ride (KNR) access to some bus nodes. Staff has corrected all the transit networks used in the air quality conformity (AQC) analysis. Based on tests, the error does not have a material effect on the AQC analysis. Nonetheless, staff has re-run all the model years and has prepared an updated transmittal package, dated November 14, that includes the model and model inputs (networks and land use data).
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 created loaded-link highway network shapefiles from the latest Ver. 2.4 Travel Model for all scenario years in preparation for future data requests.
 - ii. Staff completed testing the TRANSIMS ModeChoice software (Ver. 7.5.7) in the Gen2/Ver. 2.4 Model and recommended its use in the next release of the Ver. 2.4 Model, in place of the outdated AEMS software.
 - iii. Staff developed a transit walkshed generation process in Python based on GeoPandas and recommends its use in the next release of the Ver. 2.4 Model.
 - iv. In preparation for the upcoming 2024 LRTP (Visualize 2050), staff implemented changes to model code/input files to accommodate the new horizon year of 2050.
 - v. Staff created a new version of the production-use travel model with six updates, including the processes used for mode choice and for generating transit walksheds. The new model is called Gen2/Ver. 2.4.6.
 - b. Gen3, Phase 1 Travel Model
 - i. Staff updated summary scripts and investigated the model's apparent insensitivity to changes in tolls. RSG addressed the time-of-day insensitivity issue.
 - ii. Staff implemented an enhancement in the model to automatically extract the scenario name and create an empty outputs folder with the required file structure.

- iii. Staff developed a “mini” version of the Gen3, Phase 1, Model for functionality tests. The “mini” version has a much smaller footprint on the servers in terms of runtime and storage space used.
 - c. Gen3, Phase 2 Travel Model
 - i. Updated auxiliary travel models. Estimated auto ownership model. Proposed changes to transit path building to deal with a hyper-path problem.
 - ii. COG staff estimated three component models as part of the Phase 2 model development.
 - iii. COG staff conducted two sensitivity tests:
 1. Increasing the AM travel time and travel cost skims by 20%.
 2. Removing one lane on all road segments with two or more lanes in the AM peak period.
 - d. Webpages: Updated webpages in July and November 2022 to reflect updates to travel models.
 - e. Travel model-related data requests: This fiscal year, staff have responded to 30 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. Staff attended and presented at the Association of Metropolitan Planning Organizations (AMPO) Annual Conference, Oct. 25-28, 2022, in Minneapolis, Minnesota.
 - c. Staff attended the 2023 Annual Meeting of the Transportation Research Board (TRB), held in Washington, D.C., from January 8-12, 2023.

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 finalized documentation regarding the air quality conformity analysis of the 2022 Update to Visualize 2045.
 - b. Staff provided information from the regional travel demand forecasting model to the environmental justice analysis conducted on the LRTP.
2. Keep abreast of federal requirements related to air quality conformity determinations and the EPA’s Motor Vehicle Emission Simulator (MOVES) software.
 - a. Staff have conducted tests of EPA’s new mobile emissions modeling software, MOVES3. Based on these findings, technical staff from the metropolitan Washington region agreed that, for the time being, MOVES3.0.4, rather than MOVES3.1, would be used in the upcoming SIP and air quality conformity modeling (and this is acceptable since MOVES3.1 is considered a minor model update).
 - b. After reviewing EPA’s new heavy-duty truck final rule entitled “Control of Air Pollution from New Motor Vehicles: Heavy-Duty Engine and Vehicle Standards,” which was published on December 20, 2022, staff summarized the rule in a memo which was shared with the TPB as part of the director’s report.
3. Support development of an Attainment/Maintenance State Implementation Plans (SIPs) regarding both 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).
 - a. TPB staff continued to coordinate with COG DEP staff and state air agencies on plans related to development of the Attainment SIP and Maintenance Plan/Redesignation Request to address requirements of the 2015 Ozone NAAQS.

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 has prepared new/updated Motor Vehicle Emissions Budgets (MVEBs) associated with developing a 2008 Ozone Maintenance Plan and shared these with COG DEP staff.
5. Climate Change Planning: Provide support for efforts to mitigate climate change due to the on-road transportation sector.
 - a. July 27, 2022: TPB staff briefed the Climate, Energy and Environment Policy Committee (CEEPC) on the TPB Climate Goals and Strategies adopted by the board in June 2022.
 - b. Staff continued to assess the potential impacts of the recently released Notice of Proposed Rulemaking (NPRM) for the Performance-Based Planning and Programming (PBPP) Greenhouse Gas performance measure and target setting. Staff has prepared a draft comment letter in September, which should be finalized in October.
 - c. In September 2022, staff worked with the three state DOTs to learn more about their plans related to the National Electric Vehicle Infrastructure (NEVI) Formula Program, established by the Bipartisan Infrastructure Law (BIL). State DOT representatives briefed the TPB Technical Committee in October on their NEVI plans.
 - d. TPB staff tested and reviewed the new Congestion Mitigation and Air Quality (CMAQ) Toolkit for estimating emissions benefits of highway and intermodal projects.
 - e. COG DEP staff and TPB staff held internal planning meetings for the Regional Electric Vehicle Deployment (REVD) Working Group.
6. Air-quality-related data requests: This fiscal year, staff have responded to 10 air-quality-related data requests.

Task 7. Travel Monitoring and Data Programs

7.1 Transportation Research and Analysis

- Presentations, Visualizations, and information reports
 - Ongoing
- Workplan, survey data files, and documentation for travel surveys
 - Ongoing
 - Workplan for State of the Practice of Household Travel Surveys complete
 - Interviews with subject matter experts at other agencies complete
 - Memo with lesson learned during interviews completed.
 - Memo reviewed with internal stakeholders.
 - Presentation for external stakeholders developed and delivered
 - Interviews with FHWA and state DOTs about NHTS NextGen completed
- Technical support
 - Ongoing

7.2 Data Management and Visualization Services

- Travel monitoring datasets to support PBPP and Gen3 modeling requirements
 - Ongoing
- Travel trends and dashboard and visualizations
 - Workplan under development
- Technical reports/memoranda
 - Ongoing
- Presentations

Task 8. Regional Land Use and Transportation Planning Coordination

8.1 Regional Land Use and Transportation Planning Coordination

- Updated Cooperative Forecasting land activity forecasts and documentation.
 - Preliminary Round 10 Local Forecasts at the jurisdiction level complete
 - Preliminary Round 10 Reconciliation complete
 - Local TAZ level forecasts are under development.
 - Draft regional Round 10.0 Cooperative Forecasts presented to the COG Board
- Analysis of Activity Center and High-Capacity Transit Station area historic trends and forecasts
 - Under development
- Presentations, visualizations, and information reports
 - Ongoing
- Technical support
 - Ongoing
- Annual Baseline Employment Guidance
 - Work to commence later in fiscal year.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

- Conduct and process 2022 Regional Air Passenger Survey, Phase 1
 - Project underway
- Air Cargo Element Update
 - Work to commence later in year.

FY 2023 TRANSPORTATION PLANNING BOARD
COG/TPB BUDGET EXPENDITURE SUMMARY
April 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	1,032,781.45	627,022.65	47,799.08		61%
Subtotal	1,032,781.45	627,022.65	47,799.08		61%
2. Transportation Improvement Program					
Transportation Improvement Program	228,463.67	163,289.58	13,868.81		71%
TIP Database Support	200,000.00	156,149.64	17,349.96		78%
Subtotal	428,463.67	319,439.22	31,218.77		75%
3. Planning Elements					
Congestion Management Process	379,830.51	232,691.75	16,430.2		61%
Systems Performance, Ops & Tech Planning	348,494.22	293,394.1	20,134.63		84%
Transportation Emergency Preparedness Planning	142,103.03	99,950.37	7,616.96		70%
Transportation Safety Planning	328,165.29	107,948.36	6,932.47		33%
Bicycle & Pedestrian Planning	183,504.17	102,642.96	8,728.86		56%
Regional Public Transportation Planning	295,752.48	201,540.83	18,481.37		68%
Freight Planning	347,269.30	198,184.34	18,925.29		57%
Metropolitan Area Transportation Operation Coord Program Planning	168,057.12	138,478.74	10,914.85		82%
Performance-Based Planning & Programming	233,762.32	131,603.5	5,716.63		56%
Resilience Planning	212,185.11	81,868.64	8,733.6		39%
Subtotal	2,639,123.55	1,588,303.59	122,614.86		60%
4. Public Participation					
Public Participation	913,276.45	513,827.15	37,538.73		56%
Subtotal	913,276.45	513,827.15	37,538.73		56%
5. Travel Forecasting					
Network Development 4t	1,047,672.55	712,549.3	52,116.36		68%
Models Development	1,634,968.86	1,144,570.72	61,370.31		70%
Subtotal	2,682,641.41	1,857,120.02	113,486.67		69%
6. Mobile Emissions Planning					
Air Quality Conformity	965,194.31	706,321.74	46,199.58		73%
Mobile Emissions Analysis	1,300,371.68	861,363.68	61,391.97		66%
Subtotal	2,265,565.99	1,567,685.42	107,591.55		69%
7. Travel Monitoring and Data Programs					
Research & Analysis	1,418,540.44	730,491.84	48,355.55		51%
Data Visualization & Management	781,035.17	497,066.83	23,193.99		64%
Subtotal	2,199,575.61	1,227,558.67	71,549.54		56%
8. Planning Scenarios and Socioeconomic Forecasting					
Socioeconomic Forecasting	1,115,429.24	791,766.48	57,208.55		71%
Subtotal	1,115,429.24	791,766.48	57,208.55		71%
9. Mobility and Enhancement Programs					
Transportation and Land Use Connections Program	578,940.58	296,664.71	120,608.4		51%
Enhanced Mobility Grant Program	92,739.74	38,839.2	5,930.59		42%
Transportation Alternatives Set-Aside Programs	35,916.83	17,113.54	975.57		48%
Other Tasks to be defined 9.5	374,899.11	206,006.89	4,727.49		55%
Subtotal	1,082,496.26	558,624.34	132,242.05		52%
10. TPB Support and Management					
TPB Support and Mgmt	989,546.94	468,307.24	40,899.02		47%
Subtotal	989,546.94	468,307.24	40,899.02		47%
Core Program	15,348,900.57	9,519,654.78	762,148.82		62%
A. District of Columbia Technical Assistance					
Program Development & Misc.	279,633.49	25,407.18	5,092.19		9%
B. Maryland Technical Assistance					
Program Development & Misc.	442,970.52	124,863.52	9,340.2		28%
C. Virginia Technical Assistance					
Program Development & Misc.	334,844.64	116,092.11	36,008.71		35%
D. Public Transit Technical Assistance					
Program Development & Misc.	192,288.25	133,386.3	940.19		69%
Technical Assistance	1,249,736.90	399,749.11	51,381.29		32%
TPB Grand Total	16,598,637.47	9,919,403.89	813,530.11		60%

FY 2023 TRANSPORTATION PLANNING BOARD
FINANCIAL STATUS OF TECHNICAL ASSISTANCE

April 2023
SUPPLEMENT 1

	TOTAL		FTA/STA/LOCAL		PL FUNDS/LOCAL	
	AUTHORIZED	TOTAL	AUTHORIZED	FTA	AUTHORIZED	FHWA
	BUDGET	EXPEDITURES	BUDGET	EXPEDITURES	BUDGET	EXPEDITURES
A. DC Technical Assistant						
Program Development, Data Requests, & Misc	14,999.99	8,314.54	1,982.33	1,098.81	13,017.66	7,215.73
Regional Roadway Safety Program	30,000.00	17,092.64	3,964.65	2,258.88	26,035.35	14,833.76
Transportation/Land Use Connections Program	30,000.00	0.00	3,964.65	0.00	26,035.35	0.00
TBD	204,633.50	0.00	27,043.37	0.00	177,590.13	0.00
Subtotal	279,633.49	25,407.18	36,955.00	3,357.69	242,678.49	22,049.49
B. MD Technical Assistant						
Feasibility/Special Studies	24,999.99	0.00	4,838.13	0.00	20,161.86	0.00
Program Development & Misc	14,999.99	8,136.83	2,902.88	1,574.68	12,097.11	6,562.15
Planning Studies	35,000.00	8,627.47	6,773.39	1,669.63	28,226.61	6,957.84
TBD	107,970.54	0.00	20,895.03	0.00	87,075.51	0.00
Transportation Performance Measures	260,000.00	108,099.22	50,316.58	20,919.93	209,683.42	87,179.29
Subtotal	442,970.52	124,863.52	85,726.00	24,164.25	357,244.52	100,699.27
C. VA Technical Assistant						
Program Development & Misc	14,999.99	8,457.26	3,118.26	1,758.13	11,881.73	6,699.13
MARC - VRE Runthrough - VA	35,000.00	8,400.00	7,275.96	1,746.23	27,724.04	6,653.77
TBD	19,844.21	0.00	4,125.30	0.00	15,718.91	0.00
Transportation/Land Use Connection Program	80,000.00	41,334.43	16,630.76	8,592.79	63,369.24	32,741.64
Travel Demand Modeling	84,999.95	0.00	17,670.17	0.00	67,329.78	0.00
Travel Monitoring	100,000.49	57,900.42	20,788.55	12,036.60	79,211.94	45,863.82
Subtotal	334,844.64	116,092.11	69,609.00	24,133.75	265,235.64	91,958.36
D. WMATA						
Program Development & Misc	14,999.99	11,386.30	14,999.99	11,386.30	0.00	0.00
TBD	52,288.26	0.00	52,288.26	0.00	0.00	0.00
Transit Within Reach Soli	125,000.00	122,000.00	125,000.00	122,000.00	0.00	0.00
Subtotal	192,288.25	133,386.30	192,288.25	133,386.30	0.00	0.00
Grand Total	1,249,736.90	399,749.11	384,578.25	185,041.99	865,158.65	214,707.12