

FY 2023



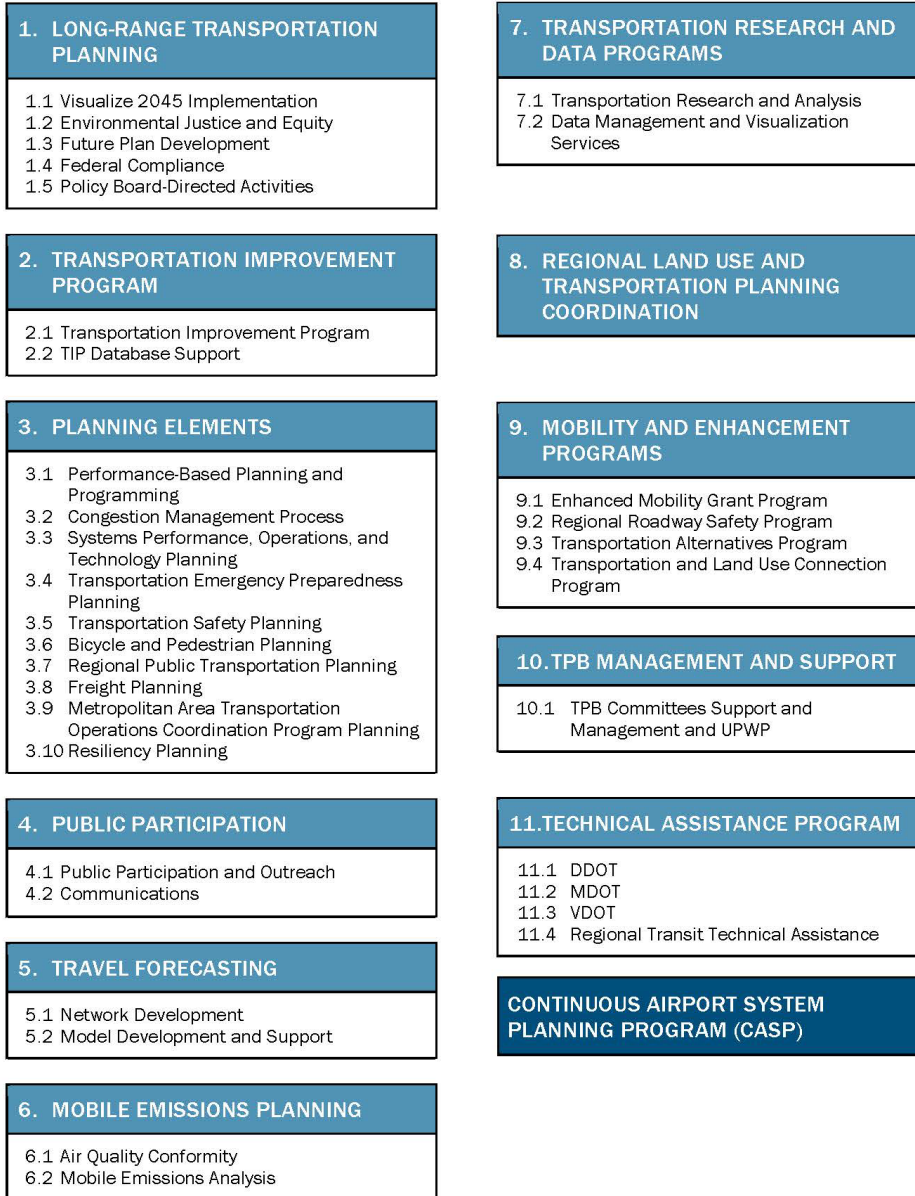
National Capital Region
Transportation Planning Board

Work Program Progress Report
FEBRUARY 2023
FY 2023

METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS
777 NORTH CAPITOL STREET, N.E., SUITE 300
WASHINGTON, D.C. 20002-4239

MAIN 202/962-3200 | FAX 202/962-3201 | TTY 202/962-3212 | [HTTP://WWW.MWCOG.ORG](http://www.mwco.org)

The TPB approved its FY 2023 Unified Planning Work Program (UPWP) in March 2022. The TPB Work Program Progress Report summarizes each activity for February. 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	\$1,122,781	\$59,738	44%	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

There has been no activity at this time.

1.3 Future Plan Development

The Technical Inputs Solicitation Document was approved and future plan development was initiated!

Staff assisted local jurisdictions and agencies working on their inputs for the Visualize 2050 financial analysis, answering questions.

1.4 Federal Compliance

Staff continued to assist the federal partners in the federal certification review desk audit. The in-person meeting is scheduled for March 8-9.

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	\$34,802	58%	37

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1 Transportation Improvement Program (TIP)

At its meeting on February 3, 2023, the TPB Steering Committee adopted three resolutions approving amendments to the FY 2023-2026 TIP as described below.

- TPB SR15-2023 – requested by DDOT to add \$50,000 for a new pilot program under the DC Circulator project and program grouping, and \$9.6 million for the National Electric Vehicle Infrastructure (NEVI) deployment program.
- TPB SR16-2023 – requested by MDOT to add \$400,000 for planning and engineering of the MD 97 Reddy Branch Bridge Removal project.
- TPB SR17-2023 – requested by VDOT to add \$5 million for ROW acquisition for the I-495 NEXT - VDOT Oversight & Transportation Management Plan.
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Each of the projects, programs, or phases included in these amendments were exempt from the air quality conformity requirement.

Staff completed the Instructional Guide document which was part of the Technical Inputs Solicitation suite of documents that were approved by the TPB during its February 15 meeting.

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 February under the baseline maintenance and support contract included updating data on the searchable public website to reflect the latest approved LRTP and TIP 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 February under the professional services contract included: Adding ACC to the Project/Programming Overview Reports and removing totals from ACCP line items, adding a requirement that certain projects be mapped (based on Primary Project Type) before users are able to successfully submit, implementation of several measures to facilitate the Zero-Based Budgeting (ZBB) process: adding a "ZBB Exempt Status" field to project forms, and limiting OverArching Projects available in the dropdown to the assigned lead agency.

Further work continued or began in February under the professional services contract: removing negative ACCP lines from the Project Overview reports, updating project displays on the public site to not include funding tables for LRTP projects, allowing non-admin users to access the Manage OAPs tool, updating the Conformity Information report to check for any/all conformity records associated with given cycles, not just where "Yes" had been checked for the "Model?" field value, adding Municipalities as a filter to Conformity Information and Project Description reports, and renaming Agency Phase ID to Agency Project ID.

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	\$3,064,119	\$168,356	41%	39

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

Staff prepared for the upcoming federal certification review, reviewing the updated Appendix D of Visualize 2045. Staff reviewed the latest information on the 2020 Census and how that might impact PBPP requirements.

3.2 Congestion Management Process

Staff continued data compilation and analysis for upcoming Quarterly Reports. Staff presented results of a twelve-year regional bottlenecks analysis (previously presented to the TPB Technical Committee in December 2022) to the multi-state Eastern Transportation Coalition Regional Integrated Transportation Information System (RITIS) User Group, February 2, 2023. A future presentation to the TPB was planned.

3.3 Systems Performance, Operations, and Technology Planning

Planning continued for future meetings of the Systems Performance, Operations, and Technology Subcommittee (SPOTS) and related activities.

3.4 Transportation Emergency Preparedness Planning

The regularly scheduled February 8, 2023, Transportation Emergency Preparedness Committee (RESF 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 February 14. The agenda included a briefing by the Washington Regional Alcohol Program on its 2022 Annual Report, and a briefing by TPB staff on the Fall 2022 Street Smart Campaign.

TPB staff additionally held a planning session on February 28 with the Transportation Safety Subcommittee Chair to identify topics and speakers for future Safety Subcommittee meetings.

3.6 Bicycle and Pedestrian Planning

Work continued on an annual update of the National Capital Trail Network information and map.

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee met virtually in February. Agenda items included member presentations: Greater Washington Partnership on the Bus Transformation 2023 progress report; DASH: update on network redesign & free fare program; DDOT: bus priority program update; and a TPB update on regional electric bus infrastructure.

Staff prepared for a work session scheduled for the March TPB meeting on the WMATA Better Bus effort, preparing an agenda and a briefing for the Technical Committee. Staff prepared letters of endorsement for local jurisdictions applying for federal grants.

Staff attended the monthly WMATA JCC and NVTC MAC meetings. Staff attended a MATOC Transit Task Force meeting, a Regional Bus Leaders Committee meeting, DRPT federal transit grant training, and the final DRPT I-495 Southside Transit/TDM Study meeting.

3.8. Freight Planning

TPB staff held planning sessions on February 8 and 22 with the Transportation Safety Subcommittee Chair to identify topics and speakers for future Subcommittee meetings.

The consultant team continued to advance the National Capital Region 2023 Freight Plan Update. They developed and delivered a draft Plan to TPB staff for review and comment. TPB staff provided feedback on the draft Plan (to include re-structuring of and re-writing of some sections) and together with the consultant, began revising the document.

3.9 Metropolitan Area Transportation Operations Coordination Program Planning

The periodic February 1, 2023, MATOC Transit Task Force virtual meeting was organized and conducted, discussing regional transit operations, communications, and coordination topics.

The regularly scheduled February 14 MATOC Severe Weather Coordination Working Group virtual meeting was organized and conducted, continuing planning and coordination for the region's winter weather response.

The regularly scheduled February 17 MATOC Steering Committee virtual meeting was organized and conducted, discussing communications, coordination, and Traffic Incident Management topics.

The regularly scheduled February 23 MATOC Operations Subcommittee virtual meeting was organized and conducted, discussing roadway operations coordination and Traffic Incident Management topics.

3.10 Resiliency Planning

Staff continued to conduct discussions about implementation options for this UPWP item. 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 prepared for a presentation to TPB Technical Committee on transportation elements of Department of Defense resiliency efforts in the region. Staff also met with various agencies and localities to discuss the new program and regional resilience priorities: DDOT, VDOT, City of Frederick, Charles County, DOEE, HSEMA, WMATA and others.

Staff submitted an RFP to the on-call consultant for the Phase II Transportation Resiliency Study and awaited response with a proposal in early March.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	\$913,276	\$51,558	44%	45

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

The first meeting of the 2023 - 2024 TPB Community Advisory Committee (CAC) was held on Thursday, February 9. The committee was provided an overview of the TPB and CAC’s structure, history, and role from TPB staff and the TPB Chair, Reuben Collins. The meeting was held in-person/hybrid at the MWCOG office.

The Access for All Advisory Committee (AFA) met virtually on Monday, February 27. The committee discussed the Visualize 2050 kick-off, the results of the Visualize 2045 Environmental Justice analysis, and the update to the Coordinated Human Service Transportation Plan.

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

Staff launched a public comment feedback form to collect project-specific feedback on the Visualize 2045 project list for the Visualize 2050 Technical Inputs Solicitation. Staff will be reporting public comments to the TPB’s Technical Committee and TPB at their monthly meetings.

Staff participated in a high school project on the intersection of public transportation and economic opportunity.

4.2 Communications

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

- Regional Roadway Safety Spotlight: Growing traffic gardens in Arlington County and Prince George's County
February 1, 2023

- January 2023 TPB meeting recap: Community Advisory Committee appointments, FY 2024 Unified Planning Work Program, and Visualize 2050
February 1, 2023
- Getting to know the Transportation Planning Board
February 2, 2023
- Transportation planning, explained
February 2, 2023

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

- Getting Involved & Public Comment
- Transportation and Land-Use Connections
- Regional Roadway Safety Program
- Public Involvement Process
- Access for All Advisory Committee
- Community Advisory Committee

Staff shared information about TPB activities via social media: Transit Equity Day (February 4); TLC and Regional Roadway Safety Programs application period; State of the Commute Survey presentation; High-Capacity Transit Station Areas; Regional Roadway Safety Program Spotlight; New Community Advisory Committee Members; City of Alexandria TLC project; TPB meeting livestream announcement; Visualize 2050 Kickoff; Montgomery County TLC project; City of Laurel RRSP project.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	\$3,364,641	\$243,420	44%	47

5. TRAVEL FORECASTING

5.1 Network Development

Staff planned a training session for the region’s implementing agencies. The training is designed to teach how to input Long-Range Transportation Plan (LRTP) and Transportation Improvement Program (TIP) projects into the Project InfoTrak (PIT) database for the upcoming air quality conformity analysis of Visualize 2050, the TPB’s LRTP. The PIT data will be exported to create a conformity project inputs table, which will be used to update the network geodatabase. Staff held the first of three training sessions.

Staff from COG’s Model Application Group developed 2019 and 2021 network shapefiles for staff on COG’s Planning Data and Research Team. The shapefiles are from the network geodatabase for the 2022 update to Visualize 2045.

Staff continued development of a new base transit network for use in the upcoming air quality conformity (AQC) analysis of the 2024 LRTP (Visualize 2050), based on transit service as of December 2022. This work included downloading raw General Transit Feed Specification (GTFS) data from each transit provider that provides such information and reformatting that data to be used in a series of Microsoft Access queries to determine average frequency and run-time information. It also included continued review of bus and rail fares and bus route information not included in the

GTFS data. Staff plan to develop a new base transit network in FY 2024 based on the July 2023 inputs.

Staff continued to work on an automated procedure in COGTools that will perform Quality Assurance/Quality Control (QA/QC) checks on the network files exported from the Unified Network Database. A prototype procedure was developed in December 2022 and was tested in January. Staff are working to address the comments on the testing.

Staff implemented the 144-column limit for transit network files in the TRNBUILD Export function of COGTools. Previously, this limit was implemented only in the PT Export function.

Staff found a minor coding issue in the year-2018 network files that were transmitted to the consultant for the Gen3 Model development project. Staff provided a fix to the link.dbf file.

Berwyn MARC Station, which was closed in 1992, is still included in the network geodatabase (node 9022) but is correctly not connected to any transit line. Staff investigated the issue and decided to remove the station node from the current geodatabase.

5.2 Model Development and Support

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months, so it did not meet in February. Nonetheless, staff prepared meeting highlights for the January 27 meeting.

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

Generation 2/Ver. 2.4 Travel Model

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 in the Gen2/Ver. 2.4 Travel Model. In February, staff tested a True Shape file for 2050, exported from the current geodatabase, that will be used to display a highway network with True Shape in Cube. Staff also proposed a methodology to develop the 2050 airport passenger auto driver trip table based on the 2019 Air Passenger Survey data. This work is currently on hold and will resume after the Round 10 Cooperative Forecasts of land activity become available.

Staff completed the migration of the transit walkshed generation process from ArcPy to GeoPandas and committed changes to the Gen2 Model repository on GitHub. The GeoPandas process will be included in the next release of the Gen2/Ver. 2.4 Model. Staff also developed a memorandum, dated February 28, to document this work. The memo is currently under internal review.

Staff will check TRANSIMS ModeChoice into the GitHub repository for the Gen2 Model, which is planned to be included in the next release of the Gen2/Ver. 2.4 Model, in place of the outdated AEMS software. Documentation is underway.

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 February 2 and 16.

- 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,
 - COG staff tested the visualizer program with partial success. However, the program still failed to run when comparing two model runs. RSG to fix the issue.
 - COG staff finished re-reviews of the Phase 2 model estimation report on February 23. RSG to finalize the report.
 - RSG staff transmitted the process that generated the estimation data bundle (EDB) files used for the Phase 2 model estimation work. RSG also created a memorandum, dated December 20, that documents the EDB generation process. COG staff still failed to run the process after receiving the additional skim files from RSG on February 16. RSG is investigating.
 - COG staff conducted a sensitivity test that increases the AM travel time and travel cost skims by 20% using an interim Gen3 Model and shared the testing results with RSG on February 15.
 - Using the same Gen3 Model, COG staff conducted an additional sensitivity test that removes one lane on facilities with two or more lanes in the AM peak period. Staff shared the testing results internally on February 24.
 - COG staff conducted a literature review on equity related studies conducted using Activity-Based Models (ABMs). Staff are in the process of summarizing the findings.
 - COG staff continued to make enhancements and bugfixes to the Gen3 Model. Specifically, Staff instituted a fix to clean up transit skimming/assignment report files in the Gen3 Model. Staff changed the base scenario folder name from “scenario_template” to “2018_base” to make it more meaningful. Staff included an option in the model to run an abbreviated version of the Gen3 Model. Staff discovered and fixed an issue related to escaping the closing parentheses in the file PATH environment variable. Staff streamlined the path variables used in the Gen3 Model and updated the README guidance accordingly. The revised setup allows the user to run the Gen3 Model in the command window in normal mode (Previously, COG staff was able to run the model only with administrator privileges).
 - COG staff proposed a methodology to incorporate toll setting in the Gen3 Model flow on February 22. COG staff solicited input from RSG on February 23.
 - Staff tested the Gen3 Model with Mambaforge and Anaconda in multiple runs. Staff noticed a significant runtime reduction when running the model with Anaconda on an AWS server. Staff are conducting additional tests to investigate.
 - Staff started to develop the flowcharts for the Gen3, Phase 2, Model.
- COG and RSG picked a set of dates (May 3 and 4) for the upcoming Gen3 Model training for COG staff. RSG is to propose a scope.

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.

Finally, 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 conducting 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: Two of them were for the Gen2/Ver. 2.4 Travel Model with revised transit networks. The third was for Gen2/Ver. 2.4 modeled trips by Maryland jurisdiction from a consultant working on climate change planning for MDOT. The last one was for year-2045 loaded-links highway networks, in a shapefile format from the current Gen2/Ver. 2.4 Travel Model, from a consultant working to develop the St. Mary's County transportation plan and to identify the future needs of transportation.

In February, staff transmitted various modeling data items to PTV (developer of Visum) in preparation for a presentation (scheduled on March 3) where PTV staff plans to make to the TPB staff on transit modeling in Visum.

Staff attended the 2023 Post-TRB Debriefing on February 2.

Staff attended ActivitySim Consortium meetings regularly on Tuesdays and Thursdays.

Staff attended the ActivitySim Monthly Partners-Only Check-In meeting on February 16.

Staff tested ActivitySim Version 1.2 with sharrow. Staff are investigating a model crash.

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

- Staff held a monthly check-in meeting with IT on February 17.
- Staff found an incompatibility issue between Cube ArcGIS engine runtime and newer ArcGIS versions (e.g., v10.8) on travel model web servers (TMWS). Working with IT, staff provided a short-term solution by uninstalling ArcGIS and reinstalling Cube. The staff is also working with IT and Bentley, the developer of Cube, on a long-term solution.
- Staff found that although the transit walkshed generation process in the Gen2 Travel Model can run on an on-premises travel modeling server, it failed to run on an AWS server. Staff met with Bentley staff on February 28 to investigate the issue.
- Per request from staff, IT created an additional on-demand server (TMSDEV) on February 10 for software testing purposes.

After the contract renewal for Bentley Cube, staff requested a new license for the legacy version of Cube (Cube 6.4.1) from Bentley and updated the license on both on-premises and cloud servers that have this Cube version installed.

After the contract renewal for Cube, staff also worked with Bentley to address a license update issue associated with Cube 6.5.

Staff investigated the issue of a lack of automated confirmation email on the Data Request webform. The COG Website team fixed this issue. Staff updated the data request webpage to reflect this change.

Task 6	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$2,265,565	\$152,238	55%	51

6. MOBILE EMISSIONS PLANNING

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

Following the TPB’s approval of the air quality conformity analysis of the 2022 Update to the Visualize 2045 Long-Range Transportation Plan (LRTP), staff continued to work on preparing additional documentation of findings and results (e.g., related to the environmental justice analysis).

Staff continued to attend coordination meetings related to scheduling tasks for the 2024 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).

Staff planned a training session for the region’s implementing agencies on how to input LRTP and Transportation Improvement Program (TIP) projects into the Project InfoTrak (PIT) database for the upcoming air quality conformity analysis of the Visualize 2050 plan update. Staff held the first of three training sessions.

In response to an invitation by Dr. Ralph Buehler from the Virginia Polytechnic Institute and State University, TPB staff prepared a lecture on an introduction to COG/TPB travel forecasting model. The guest lecture was presented to the graduate students enrolled in Transport Systems Planning.

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. Staff coordinated with the EPA about possible steps needed to update MVEBs and shared a preliminary draft schedule for the project (Metropolitan Washington Air Quality Committee – Technical Advisory Committee [MWAQC-TAC] item #2). Under the same item, TPB staff briefed MWAQC-TAC on historic mobile emissions sensitivity tests and historic development of the 20% safety margin embedded in MVEBs to account for uncertainties related to changes in demographic data, vehicle mix, and other factors such as those related to modeling tools.

Staff developed a memo for the TPB about EPA’s Clean Data Determination (CDD) for the region (Director’s Report of the TPB meeting). EPA certified that the region’s air meets the 2015 Ozone National Ambient Air Quality Standard (NAAQS) and issued a CDD, allowing the region to move forward with a redesignation request and maintenance plan related to the 2015 NAAQS.

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.

In support of work activities related to Maryland's Climate Solutions Now Act, TPB staff provided VMT estimates for Maryland jurisdictions to a project consultant working for the Maryland Department of Transportation.

In support of the greenhouse gas (GHG) inventory development for the City of Falls Church. TPB staff worked with the DEP staff and COG consultant to provide descriptions of appropriate data uses and data limitations for this type of project.

Staff also 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. In support of this activity, staff held internal meetings to prepare for the Regional Electric Vehicle Deployment Plan for Metropolitan Washington project, whose purpose will be 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 webinar on EPA's Climate Pollution Reduction Grants for state, territory, local, and tribal governments, and a Federal Highway Administration Webinar (February 13) on EV Charging Minimum Standards Rule (February 23).

In support of the TPB Commuter Connections Program, staff provided transportation emissions reductions measures (TERMs) rates based on the 2022 Update to Visualize 2045.

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	\$2,609,577	\$90,788	39%	53

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Transportation Research and Analysis

- Staff delivered a presentation on the Regional Travel Survey 7-Day Smartphone Panel Survey to the TPB Technical Committee on February 3. This presentation was accompanied by a memorandum.
- Staff made refinements to a presentation examining volume reported by trail counters in metropolitan Washington in 2020, 2021, and 2022 for an upcoming presentation at the March TPB Technical Committee meeting.,
- Staff developed and refined a presentation on the Household Travel Survey State of Practice slides.
- Staff developed a proposal on the Household Travel Survey State of the Practice project for the AMPO Annual Conference
- Staff finalized the analysis of traffic at the region's continuous counting stations for November and December 2022 and posted the snapshot including highway data through December and

enplanement data through November to the website. Due to data availability issues, this is expected to be the final in the series of regular Covid-era snapshots.

- Staff updated the AADT by counting station table with the 2020 and 2021 volumes from the District, Virginia, Maryland, and West Virginia. Staff noticed that several previous counting locations in Maryland were not available in 2020 and 2021. Staff learned from MD SHA staff that some counting sections in Maryland have been combined. Staff began the process to identify the appropriate volumes to assign to the network links that had previously been assigned volumes from the combined sections. Staff obtained the 2021 base network from the TFEA team.
- Staff updated Python scripts to download the Arlington bicycle and pedestrian data by mode and inbound/outbound direction and used SAS to check the downloaded data quality. Staff then cleaned and formatted the daily and hourly data for use in the Regional Transportation Data Clearinghouse (RTDC).
- Staff reviewed the public comment form for Visualize 2050.
- Staff reviewed and provided input on the Resiliency Planning Phase II Study.
- Staff coordinated potentially professional development / conference opportunities to consider for the rest of the fiscal year.
- Staff explored the potential support of a member of the models team to learn the AADT to link work.

Data Requests

- Staff responded to a data request from the City of Manassas and directed staff to the 2017-2018 Regional Travel Survey (RTS) Tabulations
- Staff fielded a RTS data request from a researcher at Villanova University.
- Staff responded to an inquiry from Prince William County regarding the use of RTS data for performing data analysis for Prince William County
- Staff completed securing agreement to transmit Voices of the Region data to WMATA; following the transmittal staff also secured agreement to post the data to the RTDC and provided the files to Data Management and Visualization Services staff.

Meetings & Conferences

- Staff participated in biweekly meetings with the Gen3 Model Development Team.
- Staff conducted an internal debriefing on the Transportation Research Board (TRB) Annual Meeting to discuss lessons learned at the conference.
- Staff participated in the FHWA ITS JPO Data Program Stakeholder Roundtable on Data Governance, Stewardship, and Preservation methods.
- Staff participated in a joint meeting of the AMPO Data Working Group and GIS Working Group. Following the meeting, staff introduced a member of the Data Working Group to a representation of the FHWA ITS Joint Program Office Data Program
- Staff participated in training for procurement.
- Staff attended the webinar “2020 Census and Implications for FTA Programs” on February 9.

7.2 Data Management and Visualization Services

- Staff updated some of the data sources available in TPB’s Resource Inventory Page (TRIP) (<https://trip-mwcog.hub.arcgis.com>), the online tool/online resource for cataloging the spatial data and other data-related items across programs and departments.

- Staff completed data updates to several data categories on the G:\ Drive, including MetroRail line and station data and additional geographic boundary files.
- Staff updated the interactive map products created to show the new 2020 Census Urban Areas (UA) in conjunction with TPB's current planning area boundaries and other relevant data. These materials continue to assist in the forthcoming work to adjust our metropolitan planning boundary (if necessary).
- Staff met with the Planning Data and Research program director to discuss upcoming projects for FY24.
- Staff continued to work with the Plan Development and Coordination staff, and specifically TPB's Transportation and Land Use Connections (TLC) intern, to update the geospatial data used on the TLC/TAP maps and application. Staff provided guidance to the intern on how to create geospatial features for the new TLC/TAP projects; staff is reviewing the data currently and will use it to update the overall dataset in the coming weeks.
- Staff met with TPB's resiliency planner to discuss a request to produce a map for an upcoming TPB Technical Committee presentation. Staff produced static map products (PDF and graphics files) of Department of Defense installations with resilience planning underway or planned.
- Staff continue to work with fellow team staff to update the dataset of active transportation automated counters for Arlington County. This work is ongoing and will be expanded to correct and update automated counter data available for the entire TPB region.
- Staff continued to perform administrative updates for TPB/COG's ArcGIS Online organizational account, including managing users, adding account access, and organizing content.
- Staff continued to work with Information Technology staff to address issues related to data permissions and users as well as to advise staff on ArcGIS software downloads and installations.

GIS Committee/GDX Working Group

- Staff began to plan the March 21 GIS Committee/GDX Working Group virtual meeting, which entailed communicating with potential presenters and the executive committee to approve those presentations.

Meetings & Conferences

- Staff attended the Esri Federal User Conference February 7-8 in Washington, DC.
- Staff attended the February 14 meeting of the Cooperative Forecast and Data Subcommittee.
- Staff met with Plan Development and Coordination staff and a consultant for WMATA on February 14 to discuss TPB's methodology for developing High-Capacity Transit (HCT) walksheds.
- Staff attended a training session on Esri's Survey123 presented by the MSGIC on February 9.
- Staff attended the webinar "2020 Census and Implications for FTA Programs" on February 9.
- Staff attended and participated in the Maryland State Geographic Information Committee (MSGIC) executive meeting on February 15.
- In response to an inquiry from a Prince George's County elected official, staff met with Plan Development and Coordination staff and the Planning Data and Research program director to discuss the Equity Emphasis Area (EEA) mapping application and the data contained therein in regard to place/community names.
- Staff moderated the webinar "2020 Census - What You Need to Know About Urban Boundaries" presented by the Association of Metropolitan Planning Organizations (AMPO) GIS and Data Visualization working group on February 27.
- Staff presented at the February 28 meeting of the TPB Regional Public Transportation Subcommittee (RPTS).
- 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	\$1,165,429	\$77,525	54%	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. Several jurisdictions submitted revised draft Forecasts following discussions at the January Cooperative Forecasting Subcommittee and the Planning Directors Committee. DCPS staff developed an assessment of the new revised draft Round 10 forecasts at the regional level and local levels and presented the results to the Cooperative Forecasting Subcommittee on February 14 and to the Planning Directors on February 17.
- DCPS Director briefed the COG Board on progress towards achieving the regional Housing Targets at their February 8 meeting.
- DCPS staff continued to update the PowerPoint presentation that documents the effects to date of COVID on the region’s economy.
- Staff produced the February Regional Economic Monitoring System Report (REMS)
- Staff participated in a planning call and recruited speakers and promoted the American Planning Association’s Regional and Intergovernmental Division’s (RIPD) upcoming Regional Futures Forum.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	\$1,082,497	\$105,187	29%	59

9. MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

Work began to update the Human Services Coordinated Transportation Plan, The TPB will approve the plan in May.

9.2 Regional Roadway Safety Program.

The application period for the FY 2024 Regional Roadway Safety Program launched on January 6. TPB staff reviewed and provided feedback on project abstracts received in February.

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 conducted a walk audit of the study area and held a debrief with the City of Alexandria staff.
- MD (Maryland National Capital Park and Planning Commission – The consultant conducted a site tour of the study area and held a work session with stakeholders.
- MD (Prince George’s County – Pedestrian Road Safety Audits) – The consultant completed an initial analysis of crash data and continued coordination with County staff to conduct an audit of the project site.

- MD (City of Rockville Beall Avenue Feasibility Study) – The consultant conducted a visit of the project site and collected vehicle turning movement data.

Three of the five FY 2022 RRSP projects are complete, and progress of the remaining two projects are described below:

- VA/MD (Arlington & Prince George's Counties - Traffic Safety Gardens) – The consultant team delivered a draft guide for Arlington and Prince George's County staff to review. Upon receiving comments from jurisdictional staff, the consultant began finalizing and laying out the final guide.
- VA (Fairfax County – Harrison Road Improvements) – The consultant delivered a draft final report to Fairfax County staff for review. Upon receiving comments, they began revising the final report.

9.3 Transportation Alternatives Set-Aside Program

Staff continued preparing for the next TAP application period, for Maryland, which will begin in April. Among other things, staff conducted a survey of recent TAP recipients to potentially identify projects that might be ready for follow-up grant funding.

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) - City of Alexandria presented audit process information at PTA meetings, contractor is preparing an online survey and mapping tool to be open 2/24 - 4/15. Contractor is preparing newsletter and social media outreach. Walk audits planned for 3/20 – 4/28/23.
- Independence Avenue Corridor Study (DC) - A Coordination meeting was held on February 23. This project is on schedule.
- Delivery Microhub Feasibility Study (DC) – The consultant team developed a technical memo on site selection criteria, which was discussed and edited. The team interviewed staff from Amazon, and scheduled interviews with agency staff in London and New York.
- New Design Road Bikeway Study (Frederick Co) - The project was completed in February. The final report was released, and invoices paid.
- Olde Towne to Washington Grove Bicycles Connection (Gaithersburg) - The contractor has been working to create three alternatives, in which the priority is to prepare alternatives for the connection from Diamond Avenue to Brown Street.
- Active Transportation Study (Manassas Park) - The consultant revised a draft set of recommendations based on prior studies, field observations, and stakeholder meetings. The consultant also reviewed bus stop locations and added Safe Routes to School (SRTS) recommendations. City staff and consultant reviewed draft recommendations on February 27. A prioritization process has been started for the recommendations.
- Montgomery Co Streetlight Standards (Montgomery Co) - Consultant worked on draft finding and recommendations to be presented to Montgomery County in March.
- Commuter Garage First-/Last-Mile Study (Prince William Co) - Monthly meeting was held where consultant discussed progress on the study. The consultant had some questions for PWC regarding discrepancies in land uses between plans and transit centers. Consultant shared findings and research from site visit.
- Fleet & Monroe Streets Complete Streets Feasibility Study (Rockville) - The consultant team analyzed the existing conditions data, including traffic counts and details from the site visit, and prepared three alternatives for adding complete streets facilities to Fleet and Monroe

Streets. The alternatives include a bi-directional cycle track, and two variations of a wide shared-use path along both streets. These draft concepts were shared with City, MCDOT, and MDOT SHA staff. The consultant collected comments and is incorporating them into updated concepts shared with the public.

- Takoma Park Metropolitan Branch Trail Upgrade (Takoma Park) – The contractor submitted the draft 30% plans and engineer’s estimates on February 21.
- New Ave Bikeway - District Connector (Takoma Park) – The contractor submitted the draft 30% plans and engineer’s estimates on February 21.

The FY2024 TLC application period began on January 6 and was scheduled to close on March 3.

Throughout January and February, staff conducted outreach to advertise the application period. This included newsletter announcements, email blasts, announcements at TPB and COG committee meetings, and targeted communications to potential applicants. The TLC intern began developing short videos featuring past TLC projects shared on social media.

The deadline for submitting abstracts for potential projects, which was an optional step, was January 24, 2023. Fourteen abstracts were received for TLC and RRSP. Drawing on input from subject-matter experts on COG/TPB staff, the TLC staff developed detailed responses sent to each applicant at the end of January/beginning of February.

Staff began planning for a peer exchange event, which will feature TLC projects, RRSP and TWR projects, completed in 2022. The peer exchange event, which will be conducted online, has been tentatively scheduled for April 20.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB MANAGEMENT AND SUPPORT	\$989,546	\$49,221	38%	61

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 of discuss current and emerging regional transportation planning issues.
- Participate in meetings of other agencies whose programs and activities relate to and impact the TPB work program.
- Coordination of TPB Planning Activities with Program Directors 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 Operations & Technology Subcommittee (SPOTS)

Support activities from the administrative staff included: meeting logistics with meeting rooms and amenities. Additionally, staff also worked on monitoring work program activities, providing administrative assistance to senior staff and monitoring and preparing financial reports. Additionally, administrative work on monthly financial administration and management activity which includes review and finalization of monthly expenses for all UPWP activities, development and submission of UPWP invoices and any follow up activity with the funding agencies.

The Staff Director provided overall program management oversight of all the Department's activities. Work activities the Director was involved in during the month of February 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 a meeting with the Program Directors and project staff to review the progress and briefing materials.
- Participate In the STWG, TPB Technical Committee, TPB Steering Committee, TPB's Community Advisory Committee and the TPB Board meetings.
- Participate in the bi-weekly meetings of the State Safety Oversight/Metro Safety Commission (SSO/MSC) Policy Work Group meetings. This "tri-state" group is working to reconstitute the existing Metro Rail Safety Oversight Committee to comply with the requirement of the FAST Act.

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

- CAO's Monthly Meeting
- DDOT FTA 5303 Funding for TPB Reconciliation
- MD General Assembly - Discuss request from Transit Caucus
- MWAQC Executive Committee Meeting
- COG & WMSC Lunch - EDs
- NVTC - ED discussions 2 Better Bus
- TPB Board Meeting
- COG CFO - COG FY 24 Budget Review
- Fighting Hate for Good Antisemitism - Webinar

- Certification Review Meeting - FTA
- DC Council Performance Oversight Hearing
- Major Metros Roundtable - NARC

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	\$1,614,739	\$182,633	20%	63
District of Columbia	\$329,633	\$5,034	6%	63
Maryland	\$492,970	\$90,375	23%	65
Virginia	\$384,846	\$46,370	19%	68
Regional Transit	\$407,288	\$40,853	30%	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 confirmed financial support from this program to the Regional EV Infrastructure Deployment Plan.

Staff share a one-page overview of the UPWP Technical Assistance Program upon request.

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 confirmed financial support from this program to the Regional EV Infrastructure Deployment Plan.

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 transmitted preliminary material (scope of work and memo with outline for project) to VDOT for the permanent count station data validation program.

Staff confirmed financial support from this program to the Regional EV Infrastructure Deployment Plan.

Staff communicated with VDOT and NVTC on the proposed update to the I-66 and I-395 Mode Share Study.

Staff participated in a coordination call / information exchange discussion about active transportation permanent count stations with VDOT staff.

2. Travel Monitoring and Survey

Active Transportation Counts

Staff reviewed and accepted the remainder of the fall 2022 active transportation counts and approved the invoice from the contractor. Staff finalized the update of the Active Transportation Counts Geodatabase Feature Class, including the counts collected in 2022, and delivered the geodatabase to VDOT.

Staff participated in a follow-up meeting with VDOT staff to discuss the spring 2022 active transportation data collection needs and VDOT staff comments on the fall 2021 and spring 2022

active transportation reports. Subsequently, staff made final updates to the fall 2021 and spring 2022 reports and delivered them, along with the excel data files, to VDOT staff.

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 the 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 met to begin preparing for the FY24/25 project solicitation period.

Staff processed the final invoice for one of the projects.

3. High-Capacity Transit Map

Staff prepared and reviewed a memorandum to the Regional Public Transit Subcommittee at its February 28, 2023, meeting, describing the need to clarify the definition criteria for bus rapid transit (BRT) and informing the Subcommittee that this topic will be a discussion item at the upcoming March 28, 2023, meeting.

4. Other Tasks to be Defined

No activity.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

Program Management

- Staff continued to receive and review applications and interview potential candidates for the Regional Airport System Planner.
- Staff delivered a briefing on the CASP program to the TPB Technical Committee.
- Staff updated the monthly enplanement data.
- Staff finalized the 2023-2027 Airport Capital Improvement Program (ACIP) and submitted it to FAA. The ACIP identifies the upcoming project of the CASP program to be funded through FAA grants over the next 5 years.

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

- Staff participated in a kick-off meeting with the contractor on February 6.
- Staff participated in biweekly meetings with the contractor.
- Staff transmitted the preliminary questionnaire to the contractor; the contractor reviewed the questionnaire and provided recommendations to finalize
- Staff prepared a data dictionary to accompany the questionnaire and submitted it to the contractor.
- Staff reviewed and provided input on the workplan and timeline.
- Staff participated in a call with the APS contractor to review the survey instrument; following the meeting staff provided additional feedback and direction.
- Staff finalized the sample draw results using the most recent flight data in preparation for the 2023 APS.
- Staff prepared and submitted paperwork to the Dulles Badging Office so that the APS contractor can begin the badging process.
- A member of staff visited the Dulles Badging office to apply for a badge for the pretest.

Air Cargo Element Update

- Staff continued updating a presentation on air cargo and enplanement patterns before, during, and after the pandemic. This project will support the eventual air cargo element update.

Ground Access Travel Time Study

staff continued developing the road network for the GATT related route.

PROGRESS ON PLAN PRODUCTS

Task 5. Travel Forecasting

1. Staffing the TPB Travel Forecasting Subcommittee (TFS)
 - a. Four of six annual meetings have been held.
 - b. Dates of meetings held in FY 23: 7/22/22, 9/23/22, 11/18/22, and 1/27/23.
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 working to develop 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.
 - 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 27 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 nine 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
- Technical support
 - Ongoing

7.1 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
 - Ongoing

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
- 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 commences later in the fiscal year.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

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

FY 2023 TRANSPORTATION PLANNING BOARD
COG/TPB BUDGET EXPENDITURE SUMMARY
February 2023

	DC, MD and VA	FUNDS EXPENDED	BILLED	% FUNDS EXPENDED
	FTA, FHWA and LOCAL		THIS	
	BUDGET TOTAL		MONTH	
1. Long-Range Transportation Planning				
Long - Range Transportation Planning	1,122,781.45	495,400	59,738.6	44%
Subtotal	1,122,781.45	495,400	59,738.6	44%
2. Transportation Improvement Program				
Transportation Improvement Program	228,463.67	127,596	17,452.22	56%
TIP Database Support	200,000.00	121,449.72	17,349.96	61%
Subtotal	428,463.67	249,045.65	34,802.18	58%
3. Planning Elements				
Congestion Management Process	464,830.51	181,840.2	22,926.76	39%
Systems Performance, Ops & Tech Planning	491,115.22	239,860.47	25,760.54	49%
Transportation Emergency Preparedness Planning	142,103.03	78,918.38	10,578.18	56%
Transportation Safety Planning	328,165.29	89,006.81	14,094.32	27%
Bicycle & Pedestrian Planning	183,504.17	82,442.73	9,667.3	45%
Regional Public Transportation Planning	420,752.48	156,159.92	24,910.95	37%
Freight Planning	319,649.73	152,921.66	23,234.43	48%
Metropolitan Area Transportation Operation Coord Program Planning	168,057.12	111,947.17	14,969.61	67%
Performance-Based Planning & Programming	233,757.32	112,856.01	9,599.37	48%
Resilience Planning	312,185.11	54,697.44	12,615.2	18%
Subtotal	3,064,119.98	1,260,650.79	168,356.66	41%
4. Public Participation				
Public Participation	913,276.45	402,856.33	51,558.39	44%
Subtotal	913,276.45	402,856.33	51,558.39	44%
5. Travel Forecasting				
Network Development	1,047,672.55	559,235	73,249.74	53%
Model Development	2,316,968.86	929,091.8	170,171.02	40%
Subtotal	3,364,641.41	1,488,327.15	243,420.76	44%
6. Mobile Emissions Planning				
Air Quality Conformity	965,194.31	563,233.27	72,785.28	58%
Mobile Emissions Analysis	1,300,371.68	690,791.72	79,453.13	53%
Subtotal	2,265,565.99	1,254,024.99	152,238.41	55%
7. Travel Monitoring and Data Programs				
Research & Analysis	1,828,538.26	593,978.2	55,805.05	32%
Data Visualization & Management	781,035.17	428,509.91	34,983.14	55%
Subtotal	2,609,573.43	1,022,488.11	90,788.19	39%
8. Planning Scenarios and Socioeconomic Forecasting				
Socioeconomic Forecasting	1,165,429.24	634,125.79	77,525.4	54%
Subtotal	1,165,429.24	634,125.79	77,525.4	54%
9. Mobility and Enhancement Programs				
Transportation and Land Use Connections Program	578,940.58	155,650.82	79,571.84	27%
Enhanced Mobility Grant Program	92,739.74	25,221.29	2,691.88	27%
Transportation Alternatives Set-Aside Programs	35,916.83	13,373.81	1,838.03	37%
Other Tasks to be defined 9.5	374,899.11	115,998.72	21,085.34	31%
Subtotal	1,082,496.26	310,244.64	105,187.09	29%
10. TPB Support and Management				
TPB Support and Management	989,546.94	377,662.5	49,221.88	38%
Subtotal	989,546.94	377,662.5	49,221.88	38%
Core Program	17,005,894.82	7,494,825.95	1,032,837.56	44%
A. District of Columbia Technical Assistance				
Program Development & Misc.	329,633.45	19,240.48	5,034.27	6%
B. Maryland Technical Assistance				
Program Development & Misc.	492,970.49	114,448.82	90,375.88	23%
C. Virginia Technical Assistance				
Program Development & Misc.	384,846.81	74,480.6	46,370	19%
D. Public Transit Technical Assistance				
Program Development & Misc.	407,288.25	120,486.61	40,853.72	30%
Technical Assistance	1,614,739.00	328,656.51	182,633.87	20%
TPB Grand Total	18,620,633.82	7,823,482.46	1,215,471.43	42%

FY 2023 TRANSPORTATION PLANNING BOARD
 FINANCIAL STATUS OF TECHNICAL ASSISTANCE
 February 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	6,299.84	1,681.64	706.27	13,318.35	5,593.57
Regional Roadway Safety Program	30,000.00	12,940.64	3,363.28	1,450.77	26,636.72	11,489.87
TBD	254,633.46	0.00	28,546.80	0.00	226,086.66	0.00
Transportation/Land Use Connections Program	30,000.00	0.00	3,363.28	0.00	26,636.72	0.00
Subtotal	329,633.45	19,240.48	36,955.00	2,157.04	292,678.45	17,083.44
B. MD Technical Assistant						
Feasibility/Special Studies	24,999.99	0.00	4,347.42	0.00	20,652.57	0.00
Program Development & Misc	14,999.99	6,122.13	2,608.45	1,064.62	12,391.54	5,057.51
Planning Studies	35,000.00	227.47	6,086.39	39.56	28,913.61	187.91
TBD	157,970.51	0.00	27,470.57	0.00	130,499.94	0.00
Transportation Performance Measures	260,000.00	108,099.22	45,213.17	18,798.11	214,786.83	89,301.11
Subtotal	492,970.49	114,448.82	85,726.00	19,902.29	407,244.49	94,546.53
C. VA Technical Assistant						
Program Development & Misc	14,999.99	6,442.56	2,713.12	1,165.30	12,286.87	5,277.26
MARC - VRE Runthrough - VA	35,000.00	0.00	6,330.61	0.00	28,669.39	0.00
TBD	69,846.38	0.00	12,633.43	0.00	57,212.95	0.00
Transportation/Land Use Connection Program	80,000.00	14,840.07	14,469.97	2,684.19	65,530.03	12,155.88
Travel Demand Modeling	84,999.95	0.00	15,374.33	0.00	69,625.62	0.00
Travel Monitoring	100,000.49	53,197.97	18,087.55	9,622.16	81,912.94	43,575.81
Subtotal	384,846.81	74,480.60	69,609.00	13,471.65	315,237.81	61,008.95
D. WMATA						
Program Development & Misc	14,999.99	9,371.61	14,999.99	9,371.61	0.00	0.00
Regional HCT Graphic/Map	90,000.00	0.00	90,000.00	0.00	0.00	0.00
TBD	52,288.26	0.00	52,288.26	0.00	0.00	0.00
Transit Within Reach Soli	250,000.00	111,115.00	250,000.00	111,115.00	0.00	0.00
Subtotal	407,288.25	120,486.61	407,288.25	120,486.61	0.00	0.00
Grand Total	1,614,739.00	328,656.51	599,578.25	156,017.58	1,015,160.75	172,638.93