

FY 2023



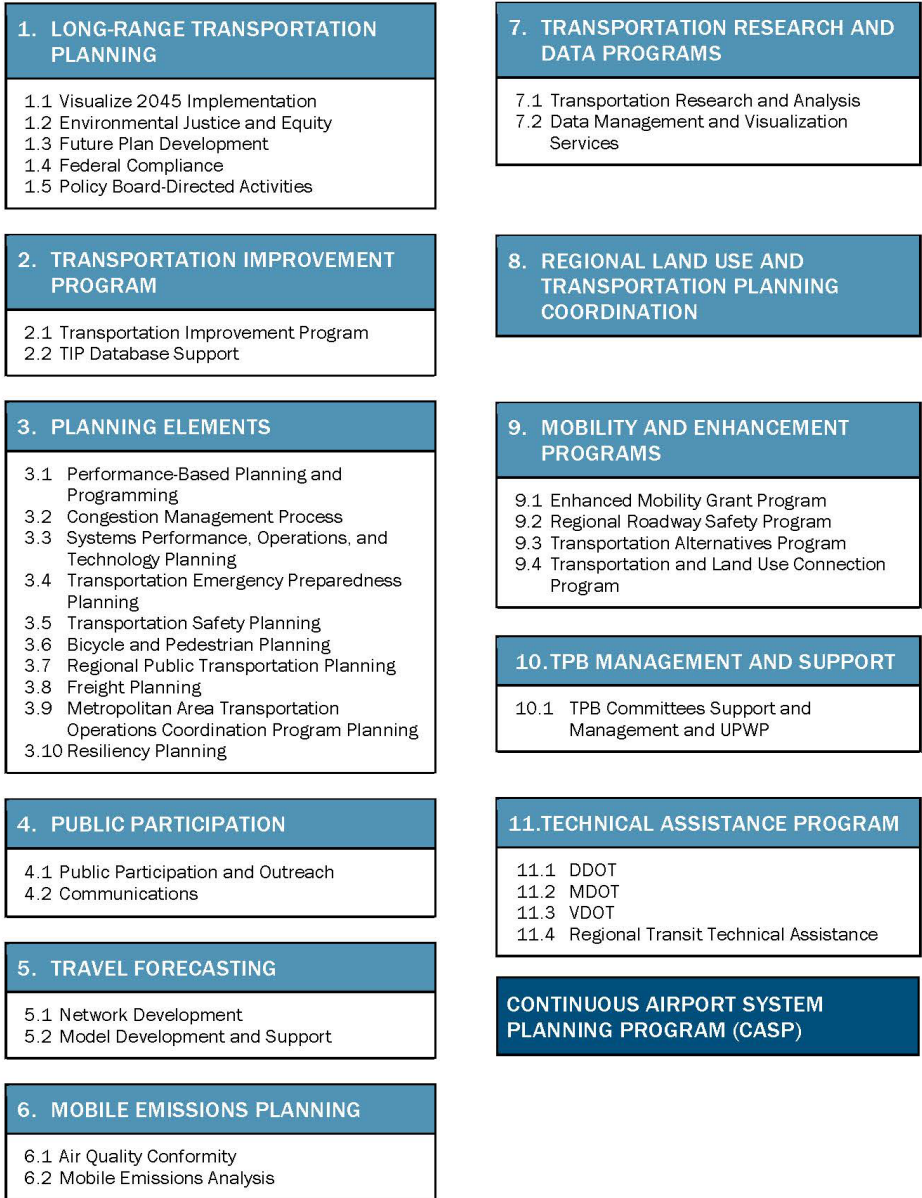
National Capital Region
Transportation Planning Board

Work Program Progress Report
JANUARY 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. The TPB Work Program Progress Report summarizes each activity for January. 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	\$60,976	39%	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 continued analysis of data to inform the environmental justice analysis and development of the presentation for the TPB and its technical committee. Staff initiated development of the Visualize 2045 Update Environmental Justice Report.

1.3 - Future Plan Development

Staff updated the DOTs on the progress of the Visualize 2050 financial analysis. Initial inputs were analyzed. A briefing to local jurisdictions for their financial inputs was delivered at the January Technical Committee meeting. Individual e-mails with additional information, including past L RTP financial inputs, were sent to member jurisdictions and agencies.

The Technical Inputs Solicitation document was draft and released for comment. The TPB is expected to approve it and kick off the Visualize 2050 plan development in February. The Visualize 2050 webpage was created.

1.4 - Federal Compliance

Staff updated the website to initiate the federal certification review desk audit.

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	\$35,515	50%	37

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1- Transportation Improvement Program (TIP)

At its meeting on January 6, 2023, the TPB Steering Committee adopted two resolutions approving amendments to the FY 2023-2026 TIP. TPB SR13-2023 was requested by MDOT and added a net total of approximately \$49.35 million for the Purple Line, the Southern Maryland Rapid Transit study, two bridge replacement projects, an area-wide congestion management program, and study assistance in cooperation with VDOT’s I-95/I-495 Southside Express Lanes Study. TPB SR14-2023, requested by VDOT, added a net total of approximately \$115 million to the TIP for the Soapstone Connector project and three new projects: CSX Overpass at Newington Road, Minnieville Road/Prince William Parkway Interchange, and North Woodbridge Mobility Improvements.

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 January 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, including Adding a field for ZBB Exemption to project forms, further work on the Overarching Project management tool, and continued work on the display of AC and ACCP amounts in TIP reports.

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	\$3,064,119	\$155,062	36%	39

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

Staff formally transmitted the annual targets for the Highway Safety and Transit Safety performance measures adopted in December 2022 to the DOTs.

Staff completed a substantial update to the LRTP System Performance Report (Appendix D of Visualize 2045) with information from 2022 on performance and newly adopted targets in preparation for federal certification review.

3.2 Congestion Management Process

Staff continued data compilation and analysis for upcoming Quarterly Reports.

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 January 11 meeting of the Transportation Emergency Preparedness Committee (R-ESF 1) was organized and conducted, discussing current regional transportation emergency preparedness issues.

3.5 Transportation Safety Planning

A planning session was held on January 31 with the Transportation Safety Subcommittee Chair to identify topics and speakers for future Safety Subcommittee meetings.

3.6 Bicycle and Pedestrian Planning

The regularly scheduled January 17 virtual meeting of the Bicycle and Pedestrian Subcommittee was organized and conducted, discussing the status of planned UPWP activities, a TPB staff trails count analysis, and transportation resiliency.

Work began for an annual update of the National Capital Trail Network information and map.

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee met in January, in a hybrid format. Agenda items included member presentations: DC DFHV: assessment of dc connect microtransit, City of Takoma Park: bus stop improvement study, VRE: update; and TPB items: 2022 State of Public Transportation Report preparations, Visualize 2050 transit conformity inputs.

Staff attended the monthly WMATA JCC and NVTC MAC meetings. Staff met with NVTC to coordinate on transit electrification / decarbonization efforts.

3.8. Freight Planning

The regularly scheduled virtual meeting of the Freight Subcommittee was organized and conducted on January 19, discussing the ongoing update of the National Capital Region Freight Plan, as well as a presentation on the Maryland Freight Plan from the Maryland Department of Transportation.

Consultant team and staff work on the National Capital Region Freight Plan update continued, toward an anticipated June completion date.

3.9 Metropolitan Area Transportation Operations Coordination Program Planning

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

The regularly scheduled January 26 MATOC Operations Subcommittee virtual meeting was organized and conducted, discussing roadway operations coordination and Traffic Incident Management topics.

3.10 Resiliency Planning

The Transportation Planner IV continued to conduct discussions about potential 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. Finalized RFP for Phase II resiliency study, presented the new transportation resiliency planning program to TPB Technical Committee and Bike/Pedestrian subcommittee, met with various regional agency representatives to discuss the new program and regional resilience priorities (MDOT, WMATA, OLDCC, Coalition for Smarter Growth) and scheduled meetings with others (DDOT, VDOT, DOEE, various localities). Attended Transportation Research Board conference.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	\$913,276	\$72,442	38%	45

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

The TPB Community Advisory Committee (CAC) met on Thursday, January 12. The committee discussed WMATA's Better Bus Initiative, and the 2022 End-of-Year Report. The meeting was held virtually and in-person at the MWCOG office.

The 2023 – 2024 TPB CAC members and CAC Chair were appointed by the TPB officers at the January 18 TPB meeting. The slate of 24 members included 9 members from Virginia and Maryland, and 6 members from the District of Columbia. The two-year term for the CAC will begin in February 2023 and end in January 2025.

Staff began development on a public comment feedback form for the upcoming long-range transportation plan update (Visualize 2050).

4.2 Communications

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

December 2022 TPB meeting recap: 2023 TPB officers elected, safety targets and DC TA Set-Aside Program projects, January 31, 2023

COG's Jeff King discusses electric vehicles in a Washington Post Q&A, January 30, 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

Staff shared information about TPB activities via social media: Announcement of new TPB Chair Reuben Collins II, TLC and Regional Roadway Safety Program application period, January TPB meeting and agenda items.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	\$3,364,641	\$149,347	37%	47

5. TRAVEL FORECASTING

5.1 Network Development

Staff shared a memo listing the detailed assumptions used in transit network coding in the 2022 Update to Visualize 2045 with the Regional Public Transportation Subcommittee. This memo is part of a request for the state and local transportation agencies to provide updated transit coding assumptions associated with inputs for the 2024 Update to Visualize 2050.

Staff continued development of a new base transit network for use in the upcoming air quality conformity (AQC) analysis of the 2024 update to the Long-Range Transportation Plan (LRTP). This work included downloading raw General Transit Feed Specification (GTFS) data from those transit providers that provide these and reformatting that data to be used in a series of Microsoft Access queries to determine frequency and run-time information. It also included continued review of bus and rail fares and bus route information that is not included in the GTFS data.

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 on December 13, 2022. Staff tested it in January and provided comments for the COG staff developer to address.

Berwyn MARC commuter rail station, which was closed in 1992, is still included in the network database (Node 9022) but is not connected to any transit line, since it has been closed for many years. 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. Staff attended the January 27 meeting and started preparing meeting highlights. Staff also presented the results, findings, and lessons learned from the Gen3, Phase 2, Model estimation work conducted by COG staff. The main meeting agenda topics are listed below:

- Using Location-Based Services Data to Understand the Mobility Market and Metro's Place in the Market
- Lasting or Short-Lived: Bike and Pedestrian Volumes on Trails in Arlington County, Before, During, and After the COVID pandemic
- COG/TPB Gen3 Travel Model: Status report
- Sharing session regarding the 2023 Transportation Research Board (TRB) Annual Meeting

Staff also welcomed the new chair, Dr. Yi Zhao, Traffic Engineering Branch Manager, District Department of Transportation (DDOT).

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

- In preparation for the upcoming 2024 LRTP Update, staff started to implement changes to model code/ inputs files to accommodate the new horizon year of 2050 in the Ver. 2.4 Travel Model. Specifically, staff have: Created batch files that are needed to run the model for 2050.
- Exported a 2050 true-shape file from the current geodatabase and tested it in Cube.
- Modified the "Bus_Factor_File.dbf" file to include the years 2046 to 2050 using the Auto Fill function in Excel.
- Updated the Python script used to process and interpolate land use forecasts for 2050.
- Coordinated with the Planning Data and Research (PDR) Team and explored methods to develop the 2050 airport passenger trip table based on the 2019 Air Passenger Survey data.

Staff checked the GeoPandas-based transit walkshed generation process into the GitHub repository for the Gen2 Model, which will be included in the next release of Ver. 2.4 Model in place of the ArcPy-based process. Documentation is underway.

Staff will check TRANSIMS ModeChoice into the GitHub repository for the Gen2 Model, which will be included in the next release of 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 January 5 and 12. The January 12 meeting was in person, since RSG and BMG staff were in town, due to the TRB Annual Meeting.
- The Gen3 Model, Phase 2, development started in March. Staff continued to work with RSG on the development of the Phase 2 Model. Specifically,
 - COG staff successfully ran the latest Gen3, Phase 2, Model (downloaded on January 13) to completion with the updated chunk file that RSG sent on January 18, though the visualizer program still did not properly run. RSG plans to fix this issue.
 - COG staff developed a draft for the COG-related sections of the Phase 2 model estimation report and performed a review of the RSG-related sections of the report. RSG plans to finalize the report.
 - Staff continued to make enhancements and bugfixes to the Gen3 Model. Specifically, staff implemented a new feature that automatically shuts down a server at the end of a Gen2 or Gen3 Model run. Staff created a batch file to move unimportant files into a “temporary files” folder and tested it using the latest Phase 2 model. Staff changed the Gen3 Model code to run the LineSum program for four time-of-day periods separately. Staff instituted a fix to clean up transit skimming/assignment report files in the Gen3 Model (testing underway). Staff also discovered and fixed a bug in the adjust_runtime.s script.
 - 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 reviewed the memo and ran the process to verify that it works. The process, however, failed to run on a COG computer. RSG is investigating.
 - After successfully running the Gen3 Model Mini version on the cloud servers using the high-specifications instance, COG staff conducted a series of tests attempting to run the Mini version and the chunk size training for it using the medium-specifications instance. Based on these tests, COG and RSG staff concluded that, the Gen3 Model or its Mini version, even with a much-reduced sample size, cannot be run using the medium-specifications instance.
- Staff requested RSG to replace Anaconda with Mambaforge in the Gen3 Model due to a licensing issue with Anaconda. RSG staff modified the model code to allow a model user to run the Gen3 Model in either the Mambaforge or Anaconda environment. Testing is underway.
- COG and RSG discussed the possible date and scope for the upcoming Gen3 Model training.
- COG staff reviewed the revised 2019 Airport Passenger Survey data files provided by the Planning Data and Research (PDR) Team. Staff processed the airport passenger auto driver trip tables by year in Cube format and shared the trip tables with RSG. RSG incorporated the base-year trip table into the Gen3 Model inputs.
- 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.

Other activities

Staff serviced two data requests. Both were for the Gen2/Ver. 2.4 Travel Model with revised transit networks. One request was from a consultant working to evaluate different incentives and levels of Battery Electric Vehicle adoption across different income groups and geographies within the metropolitan region to reduce carbon emissions. The other request was from the Montgomery County Planning Department to create a Montgomery County-focused, year-2018 roadway and transit network to update the Planning Department's network geodatabase, which is edited with the MCTools software.

On January 5, staff met with Cambridge Systematics (CS) staff to learn more about their location-based services (LBS) data product LOCUS.

On January 5, TFEA staff and Planning Data and Research (PDR) staff met to discuss topics related to the regional coordination of transit on-board surveys as well as next steps.

On January 12, staff met with PTV representatives to discuss Viscum and ActivitySim.

Staff attended the 2023 Transportation Research Board (TRB) Annual Meeting during January 8-12 in Washington, D.C.

Staff attended ActivitySim Consortium meetings regularly on Tuesdays and Thursdays.

Staff attended the monthly ActivitySim partners-only check-in meeting on January 19 to discuss ActivitySim Phase 8 Task Orders. Staff also reviewed the Phase 8 proposals from three bench consultants and ranked their proposals representing MWCOG.

The migration of travel demand modeling work from on-premises travel modeling servers (TMS) to Amazon Web Services (AWS) cloud servers was completed. Specifically,

- Staff held a monthly check-in meeting with IT on January 20.
- IT created six on-demand AWS travel modeling web servers (TMWS) with the requested computer specifications. Staff helped install software, created the Python environment that is required by a Gen3 Model run, performed modeling tests on those servers. Per request, IT also set up a system that sends out automated reminder emails to TMWS users and their supervisors on continuous server usage. Staff tested the email system.
- IT created one dedicated AWS file server (<\\mwcog.org\dfs\dtpa>) and performed the data transfer from on-premises servers to the AWS server via both AWS Snowball devices and the Internet. Staff mapped the network shares per guidance from IT.

Staff investigated the issue of lack of an automated confirmation email after a person submits a data request on COG's Data Request webform. Confirmation emails were not sent out to requestors after they submitted data requests. Staff sent a request for the COG Website team to fix this issue.

Task 6	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$2,265,565	\$162,127	49%	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, 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).

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 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 developed a preliminary draft schedule for the project (Metropolitan Washington Air Quality Committee – Technical Advisory Committee [MWAQC-TAC] item #3).

DEP and TPB staff continued to coordinate and communicate with state air agencies regarding MOVES3 inputs for year-2025 and year-2030. These will be used for developing on-road mobile inventories to update the MVEBs in the 2008 Ozone Maintenance SIP. DTP staff completed preliminary MOVES3 runs (specifically, using MOVES3.0.4) and continued to conduct quality review of the model output.

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 (also item #3 at MWAQC-TAC).

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 began conducting 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 response to a data request related to climate planning, TPB staff provided Prince William County staff with summaries of the 2020 Vehicle Registration Data for the county, although this data is normally designed for region-level usage, not jurisdiction-level usage.

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

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	\$2,609,577	\$130,351	36%	53

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Transportation Research and Analysis

- Staff presented the findings of an analysis of trail count data collected, before, during, and after the pandemic in the metropolitan Washington Region at the Bicycle/Pedestrian Subcommittee meeting on January 17. After receiving feedback from the Bicycle/Pedestrian Subcommittee members, staff made some changes to the memorandums and to the presentation slides. Staff presented the updated material at the Travel Forecasting Subcommittee meeting on January 27.
- Staff received the November and December 2022 data and began the analysis of traffic at the region’s continuous counting stations for the final COVID-19 Travel Monitoring Snapshot.
- Staff researched active transportation monitoring programs at other metropolitan planning organizations and met internally to discuss alignment with the Data Management and Visualization Services subtask. Staff also set up a meeting to discuss research underway by the Virginia Department of Transportation.

Data Requests

- Staff received an inquiry and request from WMATA for the results of the Voices of the Region (VOR) as well as data about development in the region. Staff coordinated internally and confirmed VOR files did not contain sensitive personal identifiable information (PII) before transmitting the results. Staff also sent links to publicly available development data. Staff requested that the survey results be posted to the Regional Transportation Data Clearinghouse (RTDC).

Meetings & Conferences

- Staff participated in the 2023 Transportation Research Board Annual Meeting.
- Staff participated in the National Park Service Regional Trail Count Program Quarterly Meeting
- Staff participated in biweekly meetings with the Gen3 Model Development Team.
- Staff participated in the Bike/Ped Subcommittee meeting.
- Staff attended a virtual information session about the NextGen NHTS O-D Data

7.2 Data Management and Visualization Services

- Staff completed creating an online tool/online resource for cataloging the spatial data and other data-related items across programs and departments. Staff presented the first-cut TPB’s Resource Inventory Page (TRIP) (<https://trip-mwcog.hub.arcgis.com>) at the January TPB Technical Committee meeting.
- Staff completed the process of reviewing and updating the contents of the ‘Transportation’ folder on the G:\ Drive. Staff identified and obtained updated versions of data as well as new types of data to add to TPB’s spatial data library.

- Staff completed work on updating the additional boundary spatial data layers on the G:\ Drive, including historical boundaries and municipal/county administrative districts.
- Staff obtained Park and Ride data from Commuter Connections staff for inclusion on the G:\ Drive to replace the current dataset. Staff also updated the content details for Commuter Connections Park and Ride 2020 map application hosted on ArcGIS Online (AGOL).
- Staff downloaded geospatial and tabular data of the 2020 Census Urban Areas (UA). Staff used these datasets to prepare several interactive and static map products to support the Urbanized Areas (UZA) boundary used in the metropolitan planning process. This work is ongoing.
- Staff created an Excel spreadsheet of all TLC/TAP projects (currently included in the TLC/TAP maps and application) for the Plan Development and Coordination staff so the list could be updated with the most recent data. Staff received the updated list back and will use it to refresh the geospatial content.
- Staff reviewed available data sources for active transportation automated counters for the TPB planning area. Staff received an updated dataset of active transportation automated counters for Arlington County. Staff are reviewing the data for consistency with previous versions in the RTDC. This work is ongoing.
- Staff performed administrative updates for TPB/COG's ArcGIS Online organizational account, including managing users, adding account access, and organizing content.
- Staff continued working with Information Technology staff to obtain and install ArcGIS Pro software on DTP staff workstations and laptops.

GIS Committee/GDX Working Group

- Staff planned and participated in the January 17 GIS Committee/GDX Working Group virtual meeting. Highlights of the meeting include regular status reports on the NCR-GDX and NextGen 9-1-1, a presentation on Performance Based Planning and Programming Dashboards for Bridge and Pavement by MWCOG, a presentation on Fairfax County's streambank erosion update from LiDAR data and a 3D flood impact from LiDAR data, and a roundtable discussion on how to prepare z value data for implementation into CAD systems.

Data Requests

- Staff worked with the Travel Forecasting and Emissions Analysis (TEFA) team to respond to a data request from Prince William County regarding Vehicle Registration Data (Decoded DMV VIN Data).

Meetings & Conferences

- Staff met with staff from the Metropolitan Washington Area Transit Authority (WMATA) on January 11 to discuss the HCT Map project.
- Staff attended the January 12 quarterly meeting of the Regional Trail Count Program.
- Staff attended and participated in the Maryland State Geographic Information Committee (MSGIC) executive meeting on January 11.
- Staff attended and participated in the Maryland State Geographic Information Committee (MSGIC) Quarterly meeting on January 19.
- Staff attended and participated in a planning meeting for the Association of Metropolitan Planning Organizations (AMPO) GIS and Data Visualization working group on January 30.
- Staff attended the January 10 meeting of the Cooperative Forecast and Data Subcommittee.
- Staff attended the January 17 meeting of the TPB Bicycle and Pedestrian Subcommittee.
- Staff met with staff from the Plan Development and Coordination team on January 18 to discuss updating the Transportation Land-Use Connections (TLC) project map.

- Staff met with fellow staff on January 23 to discuss active transportation data coordination across program areas.
- Staff attended the January 24 meeting of the TPB Regional Public Transportation Subcommittee (RPTS).
- Staff met with staff from the Plan Development and Coordination team and TPB’s PIT database contractor, EcolInteractive, on January 31 to discuss mapping and project record changes to the spatial and tabular database components.
- 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	\$89,675	48%	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 draft jurisdictional projections. DCPS developed an updated assessment of the preliminary draft Round 10 forecasts at the regional level and presented the results to the Cooperative Forecasting Subcommittee on January 10 and to the Planning Directors on January 20.
- Staff continued working through administrative procedures to complete transmittal of the Housing Affordability Planning Program (HAPP) grant awards to recipients. Staff also continued development of a process for monitoring performance for grant awardees.
- Staff briefed the Prince George’s County Council on the COG Housing Targets at its January 10 meeting and the Montgomery County Council Planning and Housing Committee at its January 30 meeting.
- Staff updated the PowerPoint presentation that documents the effects to date of COVID on the region’s economy.
- DCPS staff produced the January [Regional Economic Monitoring System Report](#) (REMS)

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	\$1,082,497	\$53,427	19%	59

9. MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

Staff began drafting the 2023 Coordinated Human Services Transportation Plan. The TPB is scheduled to approve the update in May 2023.

9.2 Regional Roadway Safety Program.

The FY 2024 round of the Regional Roadway Safety Program launched on January 6.

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 began its review of relevant safety data provided by the city and developed a feedback form in coordination with City of Alexandria staff in preparation for public outreach.
- MD (Maryland National Capital Park and Planning Commission – Multimodal Upgrades to Walker Mill Road) – In consultation with M-NCPPC staff, the consultant identified relevant project stakeholders and scheduled a site visit of Walker Mill Road.
- MD (Prince George’s County – Pedestrian Road Safety Audits) – The consultant began its analysis of crash data and coordinated with County staff to schedule 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.

Two of the five FY 2022 RRSP projects are complete, and the progress of the remaining three projects is described below:

- VA (City of Alexandria – Near Miss Tool) – The consultant delivered draft final deliverables for review and comment by Northern Virginia Families for Safe Streets (NOVAFSS) staff and revised and finalized the deliverables based on comments received. This project is considered complete.
- VA/MD (Arlington & Prince George’s Counties - Traffic Safety Gardens) – The consultant team continued to develop a preliminary draft of the report for Arlington and Prince George’s County staff to review.
- VA (Fairfax County – Harrison Road Improvements) – The consultant delivered a draft final report to Fairfax County staff for review.

9.3 Transportation Alternatives Set-Aside Program

A package of D.C. TAP projects was approved on December 21 and in January, staff conducted a follow-up to that approval action.

Staff began preparing for the next TAP application period, for Maryland, which will begin in April.

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 is scheduling pre-walk audit meetings with ACPS schools. Planning is underway for parent/student outreach, and the contractor is finalizing an online survey and mapping tool that will include Spanish translation.
- Safe Routes to School Walk Audits Phase 2 (Alexandria) - City of Alexandria met with project schools, contractor is developing online mapping tool and working with city staff to prepare communications for school newsletters and PTAs.
- Independence Avenue Corridor Study (DC) - Coordination meetings were held on January 12 and January 26. This project is on schedule.
- Delivery Microhub Feasibility Study (DC) – The consultant team developed a technical memo identifying best practices and up to three use cases for delivery microhubs in support of sustainable (bike e-cargo bicycle, and/or foot) last-mile delivery modes in the District of Columbia.

- New Design Road Bikeway Study (Frederick Co) - Final deliverable for the New Design Road project was submitted by the contractor, including both the Final Report and Concept Design with the one-way pair of Separated Bike Lanes.
- Olde Towne to Washington Grove Bicycles Connection (Gaithersburg) - The contractor has been working to create three alternatives, which the priority is to prepare alternatives for the connection from Diamond Avenue to Brown Street. On January 25, the project progress was shared with Washington Grove and received feedback.
- Active Transportation Study (Manassas Park) - The consultant developed a draft set of recommendations based on prior studies, field observations, and stakeholder meetings. The consultant and City staff reviewed the draft recommendations in early January (11). The consultant mapped the draft recommendations and maps and was reviewed with City staff at the end of January (30).
- Montgomery Co Streetlight Standards (Montgomery Co) - Consultant prepared progress report. Project is 10% complete.
- Commuter Garage First-/Last-Mile Study (Prince William Co) - Monthly meeting was held where consultant discussed their site visit and progress of the study.
- Fleet & Monroe Streets Complete Streets Feasibility Study (Rockville) - At a meeting on January 19, the team reviewed the draft road diet concepts and the intersection volume counts.
- Takoma Park Metropolitan Branch Trail Upgrade (Takoma Park) – The “Existing Conditions Summary and Recommendations for Design” Memorandum was submitted on 1/10. The draft 30% design is on schedule to be delivered in mid-February.
- New Ave Bikeway - District Connector (Takoma Park) – The contractor continued work on the draft 30% design, which is on schedule to be delivered in mid-February.

In January, a new staff intern started work on the TLC program for a six-month period. This is the seventh intern who has worked on TLC.

Staff launched the FY2024 TLC application period on January 6. The application period was combined with the TPB’s Regional Roadway Safety Program (RRSP). For the FY 2024 round of funding, applicants will have the opportunity to fill out one joint application for both programs. The deadline for applications is March 3, 2023.

Throughout the month of January and into 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 within one week to each applicant.

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	\$44,309	33%	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 material) and staff support for TPB and its various Committees, Sub-Committees, Task Forces and special TPB work groups meetings.
- Respond to requests from the TPB members, federal agencies, Congressional offices, media and others for information or data of a general transportation nature.
- Meet with TPB Board members and participating agency staff to discuss current and emerging regional transportation planning issues.
- Participate in meetings of other agencies whose programs and activities relate to and impact the TPB work program.
- Coordination of TPB Planning Activities with Program Directors 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 following committees and subcommittees:

- State Technical Working Group (STWG)
- TPB Technical Committee
- TPB Steering Committee
- MWCOG Board Meeting
- Transportation Planning Board (TPB)
- MATOC Steering Committee
- TPB Community Advisory Committee (CAC)
- TPB 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, duplication and distribution of meeting materials, email/phone call follow-ups. Staff also worked on monitoring work program activities, providing administrative assistance to senior staff and monitoring to prepare financial reports. Administrative staff work on monthly financial administration and management activity includes review and finalization of monthly expense reports for all UPWP activities, development, and submission of monthly 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 January FY 2023 include:

- Discussions, review, and finalization of the agenda topics for the TPB's Technical Committee, State Transportation Working Group (STWG) and Board Meetings. This includes meetings with the Program Directors and project staff to review the progress and briefing materials.
- Participation in the STWG, TPB Technical Committee, TPB Steering Committee, TPB's Community Advisory Committee and the TPB Board Meetings.
- Participation in the bi-weekly meetings of the State Safety Oversight/Metro Safety Commission (SSO/MSO) 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 January FY 2023 includes Telephone / Web Ex / Microsoft Teams Communications:

- DTP Planning Directors Briefing
- DMV's Hydrogen HUB Application HUB Application – COG-ED
- TPB Overview & Introduction – Councilmember M. Balcombe
- COG 2023 Board Executive Committee Luncheon
- COG – Board of Directors Meeting
- CPG Financial Briefing – COG ED and CFO
- Metrorail Safety Commission – ED
- COG Regional Planning Overview – COG ED
- COG Office Operations / COVID Policies – COG ED
- COG Planning Director Committee Meeting
- NARC – Major Metros Meeting
- DDOT & TPB Coordination Meeting @ CRP
- TPB – CAC Chair On-Boarding

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 Technical Committee, the Steering Committee and the TPB.
- Preparation of monthly UPWP progress reports for each of the state agencies administering planning funding and preparing all necessary federal grant applications submission.
- Review all monthly UPWP invoices going to each of the state agencies administering planning and funding.

Task 11	BUDGET	Billed this month	% Funds Expended	UPWP Page
TECHNICAL ASSISTANCE	\$1,614,739	\$32,048	9%	63
District of Columbia	\$329,633	\$10,391	4%	63
Maryland	\$492,970	\$19,562	5%	65
Virginia	\$384,846	\$1,019	7%	68
Regional Transit	\$407,288	\$1,074	20%	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 provided a status update for this subtask and requested input from the District of Columbia on any additional planned projects to inform the carryover process.

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 provided a status update for this subtask and requested input on any additional planned projects from Maryland to inform the carryover process.

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 provided a status update for this subtask and requested input on any additional planned projects from Virginia to inform the carryover process. Staff also confirmed plan to proceed with the installation of Eco-Counters.

2. Travel Monitoring and Survey

Active Transportation Counts

Staff began to update the Active Transportation Counts Geodatabase Feature Class to include the counts collected in 2022.

Staff prepared for and participated in a planning meeting with VDOT staff to discuss the spring 2022 active transportation data collection needs and budget available.

Staff reviewed and edited the Spring Count report.

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

The three projects from the first round of this program were completed and the final invoices were reviewed and approved for payment.

3. High-Capacity Transit Map

Staff met with WMATA to review project requirements and identify next steps following a period of non-activity. Staff will further consult with the TPB Regional Public Transportation Subcommittee in February and March.

4. Other Tasks to be Defined

No activity.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

Program Management

- Staff prepared and submitted a Board of Directors consent agenda item for the February 8, 2023, meeting. The resolution is to receive grant and enter into contract for the next annual grant from FAA to support DTP's Continuous Airport System Planning (CASP) Program.
- At the request of the FAA, staff asked the Accounting Office to confirm that COG's SAM registration has been renewed so that it will be in place when the next grant is issued.
- Staff continued to receive and review applications and interview potential candidates for the Regional Airport System Planner.
- Staff prepared for a briefing on the CASP program to the TPB Technical Committee.
- Staff has updated the monthly enplanement data.

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

- COG/TPB staff developed the sampling process and the sample draw using the most recent flight data in preparation for APS 2023. COG/TPB staff finalized the technical memo documenting the 2023 APS sampling approach and sample draw procedures. Staff also obtained the latest flight data for the period of the pretest.
- Staff coordinated with MWWA to update the expiration date of security badges at Reagan National Airport and Dulles International Airport. Staff also reached out to MAA for guidance.
- Staff coordinated with MWWA in preparation for the pretest. Staff requested information on making an announcement during an Airport Manager Meeting and obtaining a secure/lockable room during the pretest.

Air Cargo Element Update

- COG/TPB staff started researching air cargo and enplanement patterns before, during, and after the pandemic.

Ground Access Travel Time Study

- Staff participated in an internal kick-off meeting for the Ground Access Travel Time Study. Following the meeting, staff started developing the road network of the GATT related routes.
- To support this project and gain additional familiarity with Probe Data Analysis tools, staff attended the RITIS webinars.
- COG/TPB staff held a GATT progress meeting and started developing the road network of the GATT related routes.

Ground Access Forecast and Element Update

- Staff responded to an inquiry from the Travel Forecasting and Emissions Analysis team on the socioeconomic forecast inputs used for the latest update.

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.
 - 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.
 - 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 26 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
 - d. **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 is preparing new/updated Motor Vehicle Emissions Budgets (MVEBs) associated with developing a 2008 Ozone Maintenance Plan.
- 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.
6. Air-quality-related data requests: This fiscal year, staff have responded to five 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 drafted.
 - Memo reviewed with internal stakeholders.
- 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 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 fiscal year.