FY 2022



Work Program Progress Report May 2022 FY 2022

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The TPB approved its FY 2022 Unified Planning Work Program (UPWP) in March 2021 and amended it in March 2022. The TPB Work Program Progress Report provides a short summary of each activity for the month of April. In addition, this report concludes with status updates reflecting timelines for all ongoing program plans and projects. Please reference the 2022 UPWP for details concerning the approved budget, and work description for each task. The following graphics identifies all the activities in the UPWP.

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Task 1	BUDGET	Billed this month	% Funds Expended	UPWP Page
LONG RANGE TRANSPORTATION PLANNING	\$1,044,935	\$88,530	87%	35

1. LONG-RANGE TRANSPORTATION PLANNING

1.1 - Visualize 2045 Implementation

Staff continued activities to create an updated Aspirational Initiatives brochure and an executive summary of the plan for publication after the plan is approved by the board.

1.2 - Environmental Justice and Equity

Staff initiated the update its Equity Emphasis Areas used to support the EJ analysis of the plan, using 2016-2020 ACS data. Staff documented and conducted internal meetings to discuss preliminary findings/mapping related to the update.

Staff participated in GARE equity training activities (1 staff, once per month).

1.3 - Future Plan Development

On May 2022, the TPB staff conducted numerous small group meetings and two working group LRTP coordination meetings, during which planning, and coordination take place for a range of LRTP activities and materials.

Staff that manages the long-range transportation plan activities, with the public participation team, prepared materials for the board to document the completed 30-day public comment period and interagency review for the plan, TIP, and draft Air Quality Conformity analysis determination of the TIP and the Plan. These products included a presentation, a comment summary and response document and compiling all comments for board members and public access. Responses were coordinated as needed for comments specific to member projects that necessitated clarification or correction. Staff presented a summary of comments to the TPB Technical Committee and a full presentation to the board. Staff made minor updates to the plan to incorporate recently approved PBPP targets and data, and to provide clarifications regarding project descriptions. Staff prepared resolutions, finalized the Self Certification document, and prepared for June STWG, TPB Technical Committee and board meetings related to plan, TIP, and AQC determination approval.

Staff coordinated closely with the new TPB Communications Manager to implement a strategic plan for the rollout of the update to Visualize 2045. The approach included collecting data analytics related to the Visualize 2045 website to track where/how individuals were learning about the plan and comment period, to inform future outreach/comment period activities.

Staff updated the Visaulize 2045.org website as needed to maintain the current site.

In coordination with other TPB staff, the LRTP team continued working with a consultant team to conduct a 4-part webinar series on resiliency planning for the TPB region.

Staff continued internal conversations about potential online performance dashboards and collected examples of dashboards and performance reporting visualizations from about 20 agencies in the US and abroad.

Staff began developing a work program and staffing plan for FY 2023. Staff developed financial analysis options for the anticipated 2024 Plan update and conducted other activities, such as discussing air quality analysis requirements, to support the development of the next plan

1.4 - Federal Compliance

Staff prepared for the federally required comment period on the draft findings of the Air Quality Conformity determination and prepared for comment on the draft plan and TIP.

1.5 - Policy Board-Directed Activities

Staff completed the activities associated with TPB Resolution R10-2019 which directed staff to conduct activities related to the implementation of three of the aspirational initiatives. There are no board-directed activities under this task at this time.

The TPB has directed that "...the TPB itself and its staff commit that our work together will be antiracist and will advance equity all its work activities..." In response to the TPB July 2020 resolution,
TPB staff have conducted activities to discuss how to incorporate these concepts materially. The
TPB staff conducted internal workshops to discuss examples of staff activities and have shared
recent examples of best practices for considering equity and anti-racism in our work. TPB staff
continue to weave equity, as a foundational principle, through TPB's analyses, operations,
procurement, programs, and priorities to ensure a more prosperous, accessible, livable, sustainable,
and equitable future for all residents.

Task 2	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRANSPORTATION IMPROVEMENT PROGRAM	\$466,962	\$31,584	80%	37

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1 – Transportation Improvement Program (TIP)

At its May 6 meeting, the Steering Committee adopted four resolutions approving amendments to 19 projects in the FY 2021-2024 TIP. The three DOTs and WMATA each requested amendments to finalize FY 2022 programming before the end of the federal fiscal year and/or to align FY 2023 programming with revisions submitted for the Draft FY 2023-2026 TIP to include recently announced funding provided under the Infrastructure, Investment and Jobs Act (IIJA) prior to the anticipated approval of the FY 2023-2026 TIP in June. The four adopted resolutions were:

- TPB SR16-2022, requested by MDOT to include TIP Action 21-50, adding approximately \$4.8 million for ROW for the MD 97 at Montgomery Hills Highway Reconstruction project.
- TPB SR17-2022, requested by VDOT to include TIP Action 21-51, which added funding for five projects:
 - o Richmond Highway Corridor (Phase 2) project \$2.1 million
 - I-495 NEXT Transit Investment Monitoring Funds (a transit administration program)
 \$5.2 million
 - o VA Route 7 at VA Route 690 Interchange project \$9.1 million
 - o Sycolin Road Paving and Widening project \$3.9 million
 - o VRE Storage Yards Improvements program \$20 million
- TPB SR18-2022, requested by DDOT to include TIP Action 21-52, added funding for five projects:
 - o New York Ave. NE Bridge over Anacostia River\$3.265 million
 - o Southwest Freeway Bridge over South Capitol Street\$2.35 million
 - o Capital improvements to the DC Circulator program\$8.924 million
 - o Circulator Bus Depot project at Claybrick Road\$6.652 million
- TPB SR19-2022, requested by WMATA, also under TIP Action 21-52, adding approximately \$151.35 million in FY 2023 to 9 of its 13 transit project groupings.

All projects were either included in the Air Quality Conformity Analysis of the 2020 Amendment to Visualize 2045 and the FY 2021-2024 TIP or were exempt from the air quality conformity requirement.

During the month of May, TPB staff reviewed comments that were received during the 30-day public comment and interagency review period that closed on May 1. TPB staff worked with representatives from the implementing agencies to respond to comments received and to make any necessary updates to the draft FY 2023-2026 TIP based upon the interagency reviews.

2.2-TIP Database Support

During the month of May, contractor EcoInteractive, continued to provide access to its Software as a Solution platform, customized and branded as the TPB's Project InfoTrak database application, as well as 10 hours of standard maintenance and help desk support for staff and member-agency users, and fixing baseline software bugs.

Work done in May under maintenance hours included updating and aligning some of the existing funding sources, removing some redundant sources, and adding new sources provided under the IIJA. The maintenance hours were also used to fix a problematic setting when users created amendments for projects that would by default select the version of the project from the newest TIP cycle instead of the current TIP cycle.

Under an expanded contract that provides for an additional 20 hours of professional services per quarter, EcoInteractive developed and refined customizations of its software platform including: finalization of the LRTP and TIP Project Description Report and an update to the Conformity Information Report that would have the narrative change detail specific to each CON ID record rather than repeating all CON IDs associated with a project for each CON ID.

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	\$2,718,268	\$188,842	68%	39

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

Staff briefed the Technical Committee and the TPB on the federal requirements for the PBPP CMAQ Program performance measures, performance vs. past targets, and the proposed new targets.

3.2 Congestion Management Process

A full draft of the 2022 Congestion Management Process (CMP) Technical Report was published, dated May 26, 2022, and provided for advance review for the June 3 TPB Technical Committee meeting. The report was anticipated to be accepted as final by the committee in July.

Staff continued CMP data compilation and analysis for upcoming Quarterly Reports.

3.3 Systems Performance, Operations, and Technology Planning

The May 10, 2022, meeting of the Systems Performance, Operations, and Technology Subcommittee was organized and conducted, discussing an Arlington County presentation of traffic impacts during the COVID-19 pandemic, the draft Visualize 2045 plan, and the draft 2022 Congestion Management Process Technical Report.

3.4 Transportation Emergency Preparedness Planning

The regularly scheduled May 11, 2022, virtual 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

Staff, in consultation with the Subcommittee Chair, developed the agenda and secured speakers for the regularly scheduled June 14, 2022, meeting of the Transportation Safety Subcommittee.

Staff held planning sessions on May 3 and May 31 with the Transportation Safety Subcommittee Chair to identify topics and speakers for future Safety Subcommittee meetings.

3.6 Bicycle and Pedestrian Planning

On May 6, 2022, staff briefed the TPB Technical Committee on the most recent changes to the Bicycle and Pedestrian Plan.

The TPB adopted Resolution R14-2022 on May 18, 2022, approving the 2022 Bicycle and Pedestrian Plan for the National Capital Region.

The regularly scheduled May 17, 2022, meeting of the Bicycle and Pedestrian Subcommittee was organized and conducted. The agenda included a briefing on the final changes to the Bicycle and Pedestrian Plan, a review of the "Voices of the Region" survey for Visualize 2045, and an update on the Commuter Connections regional bike map and bike guide.

Staff presented the Street Smart campaign at the Virginia Highway Safety Summit on May 5, 2022 and provided a brief update on the campaign to the Baltimore Regional Safety Subcommittee on May 26, 2022.

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee did not meet in May.

Staff prepared letters of endorsement for federal grant applications by member jurisdictions. Staff coordinated with the on-call planning consultant for two tasks: Bus Equity update and State of Public Transportation report.3.8 Freight Planning

The regularly scheduled May 12, 2022, meeting of the TPB Freight Subcommittee was organized and conducted. The agenda included a briefing on recent developments at Norfolk Southern, a briefing on VDOT's update to the 2015 Virginia Truck Parking Study, a briefing on Visualize 2045, and a briefing on the update to the National Capital Region Freight Plan.

Staff held planning sessions on May 4 and May 11 with the TPB Freight Subcommittee Chair to identify topics and speakers for future Freight Subcommittee meetings.

For the National Capital Region Freight Plan Update, staff worked with the consultant team to flesh out the project plan and develop a bi-weekly update meeting schedule.

3.9 Metropolitan Area Transportation Operations Coordination Program Planning

The regularly scheduled May 20 virtual meeting of the MATOC Steering Committee was organized and conducted, discussing communications, coordination, and Traffic Incident Management topics, as well as impacts of COVID-19.

The regularly scheduled MATOC Operations Subcommittee virtual meeting was organized and conducted on May 26, to discuss regional operational and traffic issues, including impacts of COVID-19, as well as preparations for upcoming Memorial Day weekend travel.

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Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	\$929,710	\$59,067	69%	45

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

Staff concluded public engagement activities related to the finalization of Visualize 2045. A public comment period began on April 1 and ended on May 1. Staff used a variety of communications to advertise the comment period and various events, including newspaper advertisements, emails and social media, and mailed postcards. In May, staff summarized the comments received, which were presented to the board grouped in themes.

The TPB Community Advisory Committee (CAC) met on Thursday, May 12, for an online-only meeting. The committee discussed regional transportation safety planning and received a briefing on public comments on the update of the Visualize 2045 long-range transportation plan.

4.2 Communications

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

- Podcast: Picturing a post-COVID region Part I. Think Regionally Episode 7
 May 3, 2022
- Shift into Gear: Bike to Work Day 2022 Nearly Here May 19, 2022
- Visualize 2045: Mapping Public Outreach and Regionally Significant Projects May 31, 2022
- May 2022 TPB meeting recap May 31, 2022

Staff updated pages on the COG website related to transportation. Staff shared information about TPB activities via social media.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	\$2,766,336	\$241,502	76%	47

5.1 TRAVEL FORECASTING

5.1 Network Development

Staff completed a summary of rail and road miles for three planning areas (the modeled area, the non-attainment area, and the TPB planning area).

Staff updated the coding of Alexandria's West End Transitway to be consistent with other Bus Rapid Transit (BRT) services in the region. Staff added specific "stations" for the routes along with appropriate connections for bus and pedestrian access, as well as changing the network mode code used for this service in the regional network database.

Staff completed a review of the highway and transit network documentation report associated with the 2022 Update to Visualize 2045. The report is expected to be finalized in June.

Staff completed the first major update of the COGTools User's Manual since 2013. The new User's Manual is dated May 2, 2022.

Staff developed a new Station Management module in COGTools that enables users to update the station table in the network database through the graphical user interface (GUI). Staff shared the tool within the team for internal testing. Staff also documented this developmental work in a draft memorandum.

Staff implemented a fix to an issue related to the maximum 144-column limit in transit line files. The QC/QA test of this fix is currently put on hold due to other work priorities.

5.2 Model Development and Support

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months. Staff attended, ran, and presented at the May 20 TFS meeting, which covered two main topics:

- Air Quality Conformity Analysis and Performance Analysis of the 2022 Update of Visualize 2045, The TPB's Long-Range Transportation Plan
- COG/TPB Gen3 Travel Model: Status Report.

Staff have also begun to develop the May meeting highlights.

Developmental, travel demand forecasting model: Generation 2/Ver. 2.3 and Ver. 2.4

Staff is awaiting the finalization of the network report to complete the Ver. 2.4 Model transmittal package, which will be released after the 2022 Update of Visualize 2045 is approved by the TPB in June.

Staff continued to explore the feasibility of replacing the outdated AEMS software with TRANSIMS ModeChoice for the mode choice modeling of the TPB's Gen2 Travel Model. Staff compared the 2021 results of AEMS and TRANSIMS ModeChoice in Ver. 2.4 Model and conducted additional modeling tests in two scenarios (2030 and 2045).

Staff discovered a discrepancy with the current bus speed degradation process in the Ver. 2.4 Model. Staff implemented a fix for this issue and documented it in a memorandum dated May 20. Staff implemented a similar fix in the Ver. 2.4_PT Model and the Gen3 Model.

Developmental, travel demand forecasting model: Generation 2/Ver. 2.4_PT

No activity.

Developmental, travel demand forecasting model: Generation 3

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 three check-in meetings (May 3, 18, and 27) with RSG and BMG, the consultants on the Gen3 Model development project.
- Staff continued to work on the Gen3, Phase 1, Model received from RSG on January 8.
 Specifically,
 - In support of future sensitivity analysis, staff created an R script that summarizes the disaggregate modeling data for a subset of population, based on an example script

- from RSG. Staff executed the script on the travel modeling server tms8 and is in the process of examining outputs.
- Staff worked to share Gen3 Model, Phase 1, documents on the COG website.
- As the Gen3 Model, Phase 2, development started in March, staff continued to work with RSG on the development of the Phase 2 Model in April. Specifically,
 - O RSG has been working on the integration of auxiliary trip tables in the Phase 2 Model. In support of this effort, COG staff created ArcGIS maps displaying the 2014 AirSage home-based work (HBW) external-to-internal (attraction) and non-home-based work (NHW) internal-to-external (production) trip end distributions. COG staff also shared the map, the input DBF files and a memo describing the data with RSG for their reference via Box.
 - COG staff are tasked with estimating four component models between April and July. RSG shared their model estimation experiences at a May 13 webinar. Following the webinar, COG staff made a work plan for moving forward. Staff studied the webinar materials and tested the estimation tools afterwards.
 - COG staff developed the school enrollment data for the horizon year of 2045. With the assistance of RSG, COG staff developed a four-step approach to project school enrollment. Staff created a list of new schools proposed in local plans and implemented the proposed methodologies in a Python script. Staff performed QC/QA checks on the script and its outputs. Staff presented the proposed approach at the May 20 TFS meeting.
 - Staff implemented the multipathing feature of Public Transport (PT) in the Gen3
 Model based on extensive testing. Staff transmitted the PT factor/system files as well as the associated model summary files to RSG on May 20.
 - During the testing of PT multipathing, staff discovered a coding error in the fare matrix files. Staff fixed the error and documented the updates to the fare matrix files in a memorandum dated May 20.
 - Staff prepared the 2045 model inputs for Gen3 Model and conducted QC/QA checks on them. Staff then conducted a 2045 Gen3 model run and is in the process of examining modeling outputs.
- Per request from RSG, staff worked on creating commuter rail In-Vehicle Time (IVT) plots to further investigate the VRE ridership underestimation issue.

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 (MEMW) maintained at COG. Software includes Bentley Citilabs Cube, Python, Git/GitHub, R, MOVES, MySQL, MariaDB, and a travel speed post processor, implemented in Cube, for estimation of mobile emissions. Staff also continued to monitor the storage space on various modeling servers to ensure that older files were being backed up and removed and that sufficient storage space was available for upcoming activities, including the 2022 Update to Visualize 2045 air quality conformity analysis. Finally, staff have continued to meet and work with IT staff to discuss moving more workstations and servers to the cloud.

Other activities

Staff serviced two data requests in May. Both requests were from consultants working for DDOT on a transportation analysis to support South Capitol Street Phase 2 and on modeling bus lanes. Both requests were clarification questions regarding the Ver. 2.4 Travel Model (the 2022 Update to Visualize 2045) and a DC bus lanes coding error in the 2045 network along H Street NW.

Staff created training materials for Git and GitHub in preparation for an internal Git/GitHub training session in June.

Staff worked with IT to find and purchase random-access memory (RAM) that would be compatible with travel modeling servers tms6 and tms7. This extra memory should allow those servers to run the Gen3 Model. Staff installed R Studio and PyCharm on tms8. Staff provided a new Baseline Mobility Group staff member with access to the Gen3 Model project folder on Box.

In response to an inquiry from University of Illinois, Chicago (UIC) on CTPP research, staff contacted RSG on the use of CTPP data use in the Gen3 Model development. Staff also filled out a related survey conducted by UIC.

Staff attended Staff Enrichment Series #3 – Contemporary issues of Native Peoples in the region on May 16.

Staff attended the ActivitySim Monthly Partners-Only Check-In meeting on May 19. Staff attended ActivitySim Consortium meetings regularly on Tuesdays and Thursdays.

Task 6	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$2,039,172	\$138,352	85%	51

6. MOBILE EMISSIONS PLANNING

6.1 Air Quality Conformity

Staff continued to regularly attend coordination meetings related to scheduling tasks for the 2022 quadrennial update of the region's Long-Range Transportation Plan, Visualize 2045, including the air quality conformity analysis, system performance, and environmental justice analysis.

Upon finalizing network development, travel demand modeling, and emissions analysis, staff finalized the summary report for the air quality conformity analysis and posted the updated report on the COG website (included as Appendix C of the Visualize 2045 report). Staff also continued with development of the full conformity report and worked with staff from other teams to develop presentations on the performance of the plan for various committees. Namely, staff briefed the Travel Forecasting Subcommittee on the air quality conformity analysis and plan performance (item #2).

Staff briefed the TPB on the comments received during the 30-day public comment period from April 1 to May 1, 2022, for the Air Quality Conformity Analysis of the 2022 Update to Visualize 2045 (item #8).

TPB staff developed a recommended response to the Metropolitan Washington Air Quality Committee's comment letter on the air quality conformity analysis of the 2022 Update to Visualize 2045 and the FY 2023-2026 Transportation Improvement Program.

Staff drafted the 2022 Congestion Mitigation and Air Quality (CMAQ) Performance Plan and a slide presentation related to reviewing goals and setting new emissions reduction targets for CMAQ performance-based planning. The CMAQ Performance Plan, which shows how the region met its 2018-2022 targets and sets new targets for 2023-2026, is due to be submitted to the feds in October 2022.

In accordance with the TPB consultation procedures, staff forwarded to the consultation agencies and public advisory committees the May meeting agenda and a summary memo regarding the monthly TPB meeting and air quality conformity consultation elements.

6.2 Mobile Emissions Analysis

Upon conclusion of the TPB Climate Change Mitigation Study of 2021 (CCMS), TPB staff developed, tested, and released a TPB member survey/questionnaire seeking input on various aspects of climate change planning, including on potentially setting greenhouse gas (GHG) reduction goals for the on-road transportation sector. A majority of the TPB members submitted their responses to the survey in April. Staff provided detailed briefings to the TPB members on determining specific GHG reduction goals and strategies to adopt at this time during a special work session on climate change mitigation and goals that took place prior to the TPB meeting (May 18, 2022). During the regularly scheduled TPB meeting, TPB members also discussed different options regarding the specific GHG reduction goals and different implementation levels for strategies that could be adopted at this time (item #9). In preparation for both the TPB meeting and the special work session, TPB staff worked with the consultant to prepare presentations and memoranda to facilitate the discussion.

Department of Environmental Programs (DEP) and TPB staff continued to coordinate with state air agencies on plans related to development of the Attainment State Implementation Plan (SIP) and Maintenance Plan / Redesignation Request to address requirements of the 2015 ozone National Ambient Air Quality Standards (NAAQS). Specifically, DEP and TPB staff held a special six agency (three state air agencies and three state departments of transportation) meeting to discuss various issues associated with planned Attainment and Maintenance SIP development requirements including the need to develop new motor vehicle emissions budgets. The purpose of the meeting was to ensure that all agencies were "on the same page" regarding tasks and schedules associated with requirements of the 2015 Ozone NAAQS. TPB staff developed a memo documenting the implications of missing a deadline for a SIP submittal to the EPA. The EPA proposed to reclassify the region from "marginal" to "moderate" non-attainment of the 2015 NAAQS. The proposed non-attainment designation includes a requirement to submit an Attainment SIP to the EPA by January 1, 2023, but the current SIP development schedule misses that deadline.

Finally, DEP and TPB staff coordinated regarding acquiring MOVES3 inputs from state air agencies for use in an Attainment SIP for the 2015 Ozone NAAQS.

At the Metropolitan Washington Air Quality Committee – Technical Advisory Committee meeting, DEP staff led a discussion on state, regional, and local agency engagement on electrification (item #2), which could have a significant impact on air quality in the region. Similar discussion on regional electric vehicle deployment plan coordination took place at the Climate, Energy and Environment Policy Committee meeting (item #4), where, among other presenters, TPB staff briefed the committee on the recent TPB climate change planning activities related to electrification.

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. Specifically, TPB staff developed draft 2020 regional greenhouse gas inventories and provided them to DEP staff. TPB staff and DEP staff also continued to assist local jurisdictions with climate change planning.

DEP and DTP staff coordinated to provide MOVES2014b inputs to a DDOT contractor for a project-level analysis in the District of Columbia.

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TPB staff also continued to conduct MOVES model tests to further refine greenhouse gas emissions modeling estimates for future studies. Staff also continued to explore separate ways to model pollutant emissions to both maintain consistency with the recently released Version 2.4 Travel Demand Model.

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	\$1,815,999	\$112,031	62%	53

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Travel Surveys

Smartphone Panel Survey

Staff completed drafting a memo summarizing the key findings from this evaluation of the 7-day smartphone panel survey. Staff conducted an internal review process of the memo.

COVID-19 Literature Review

Staff revised the COVID-19 Literature Review Project Task 3 memo summarizing the key findings of transportation surveys measuring the impacts to travel behavior from COVID-19 that inform regional transportation planning.

Staff updated the release plan for the COVID-19 Literature Review Project.

<u>Other</u>

In support of the May 12th Climate Goal and Strategies work session, staff prepared resources and reviewed material summarizing the results of the Climate Change Mitigation Goal Questionnaire.

Staff participated in a planning meeting for a presentation on recent efforts by the TPB regarding climate change mitigation, including regional electric vehicle deployment plan coordination, with the COG Climate Energy and Environment Policy Committee. Staff attended the meeting to provide support.

Staff fielded various data requests from stakeholders.

Staff participated in biweekly meetings with the Gen3 Model Development Team.

7.2 Traffic Analysis Studies and Research

Transportation Impacts of the COVID-19 Pandemic

Staff continued to coordinate with other key organizational technical staff to prepare an examination of COVID-related regional impacts from a multisectoral perspective, including the transportation sector to better understand and describe the impacts to the region's transportation system from a broad context. Staff updated presentation slides with the latest information.

COVID-19 TRAVEL MONITORING SNAPSHOTS

Staff updated the data analysis for the Covid Travel Monitoring Snapshot with data through March 2022. Staff redesigned the percent change charts to account for entering the third pandemic year. Staff posted the latest snapshot on the COG/TPB website and briefly discussed the analysis during

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the Other Business section of the May 20 Travel Forecasting Subcommittee meeting. Staff obtained the April 2022 data from continuous count stations and began to analyze the data.

Transportation Data Dashboard

Staff met with the Planning Data and Research Program Director to discuss an outline for developing the next phase of the Transportation Data Dashboard.

Staff met with the Planning Research and Assistance program manager for an initial discussion on data sources and resources related to the next phase of the Transportation Data Dashboard.

Planning research and assistance staff gathered and updated existing condition data for the Transportation Data Dashboard.

Other

Staff developed a memo to brainstorm ideas for a fact sheet about high-capacity transit stations and equity emphasis areas.

Staff reviewed and provided feedback on consultant suggestions to improve the 2020 State of Public Transportation Report.

Staff coordinated with the IT Manager to obtain licenses for Microsoft Power BI.

Staff researched the possibility of using XML with Excel to pull active transportation counts from the region's continuous active transportation counters.

7.3 Regional Transportation Data Clearinghouse

Staff continued to work on updating the spatial and tabular data on Bridge Condition for structures in the TPB Planning Area (a PBPP dataset). Staff is refining the process by which the data is prepared, published, and shared to the RTDC.

Staff prepared geodatabase tables containing National Bridge Inventory (NBI) attributes and bridge condition for the years 2016 through 2020 to be joined with the 2021 NBI points that were previously spatially corrected. In addition, staff prepared a single table showing bridge condition for each year between 2016 and 2021.

Staff continued to work to update the HPMS and pavement geodatabases for the years 2015 through 2020.

Staff responded to a question from the Northern Virginia Transportation Commission regarding the availability of historical Metrobus route datasets.

Staff responded to a question from the Northern Virginia Transportation Authority regarding the Cooperative Forecast data available for download in the RTDC.

Staff responded to a question from COG's Office of Communications staff regarding the number of Equity Emphasis Areas (EEA) that are in the Cities of Frederick and Rockville.

Staff responded to a question from COG's Office of Communications regarding the multimodal status of the Woodbridge High-Capacity Transit (HCT) station.

Staff provided feedback to fellow DTP staff regarding a data inquiry from a PhD student in George Mason University regarding the availability of traffic and transit data during the COVID-19 pandemic period (2020).

Staff corrected some ArcGIS Online content items that had inconsistent permissions that prevented content from being accessible in some pf TPB's published web maps ad applications.

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

7.4 GIS Data, and Analysis

Staff planned and participated in the May 17 GIS Committee/GDX Working Group virtual meeting. Highlights of the meeting included: a presentation on a Survey123 form and dashboard developed by Montgomery County staff for reporting address issues, a presentation on the LiDAR acquisition and deployment process and using LiDAR data for streambank erosion analysis, and the regular status reports on the NCR-GDX and NextGen 9-1-1. Staff continued to encourage active participation in the Committee/Working Group meetings among the Committee members. In addition, staff met to discuss the GIS Committee/GDX Working Group and to begin the process of transitioning the Committee/Working Group staffing.

Staff attended the May 11 meeting of the Maryland State Geographic Information Committee (MSGIC) executive committee.

Staff attended two training sessions presented by MSGIC—Introduction to Power BI (May 18) and Advanced Power BI (May 25).

Staff met with COG staff as well as others DC HSEMA (Homeland Security and Emergency Management Agency) and consultants) on May 16 to discuss the status and next steps for the regional food resources layer in the NCR GDX.

Staff met with fellow DTP staff as well as the consultant team supporting the TPB Freight Plan update to discuss spatial data need, standards, and transmittal.

Staff gave the presentation "VOICES OF THE REGION: Summary of the Aspiration to Implementation Public Engagement Activity" at the May TPB Technical Committee.

Staff delivered the presentation "WRAP-UP OF VOICES OF THE REGION PUBLIC ENGAGEMENT FOR VISUALIZE 2045" at May 17 of the Bicycle and Pedestrian Subcommittee.

Staff reviewed and edited a draft copy of the May TPB News article "Visualize 2045: Mapping Public Outreach and Regionally Significant Projects."

Staff completed the review to identify records in the Project InfoTrak (PIT) database that need to be updated in order to accurately reflect the projects that are part of the National Capital Trail Network (NCTN).

Staff provide several tabular files for review and correction and continue to work with fellow staff to reconcile the PIT data that informs the forthcoming Bicycle and Pedestrian Plan for the National Capital Region.

Staff continued to participate in Visualize 2045 update DTP working group meetings with staff from the Plan Development & Coordination team.

Staff continued to work with fellow DTP staff to correct and complete active transportation project records in the Project InfoTrak (PIT) database.

Staff continued to make updates to the Bike to Work Day (BTWD) web map as requested by Commuter Connections staff.

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Task 8	BUDGET	Billed this month	% Funds Expended	UPWP Page
REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION	\$1,190,179	\$102,584	75%	57

8. REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION

8.1 Socioeconomic Forecasting

Planning for Round 10

COG Department of Community Planning and Services (DPCS) staff finished geo-coding of the DataAxle employment file and continued to share individual jurisdictional databases with COG Cooperative Forecasting and Data Subcommittee members.

DCPS and DTP staff met on May 4 and May 18 with the ICF team to discuss progress on their work on assisting with Round 10 plans. The tasks include developing a 'range' of regional econometric benchmark forecasts; determining trends in future average household size; assessing changes in future office, retail, and industrial space use density, i.e., square feet of space needed per worker; and assessing potential post-COVID impacts to the timing and location of future housing.

DCPS staff completed and presented the updated Baseline Employment Memo to the Cooperative Forecasting Subcommittee at their April meeting. DCPS staff also presented a preliminary assessment comparing the new S&P Global Insight population and employment forecasts for the COG region with the 2015 Global Insight regional projections and Round 9.2 regional forecasts. DCPS staff noted that the new S&P employment forecasts are significantly lower in the years 2035 and beyond when compared to the 2015 series. The ICF team will be addressing this challenge in their work.

COVID-related impacts on the economy

DCPS staff continued to update the PowerPoint presentation that documents the effects to date of COVID on the region's economy. Recent data showed that the region has recovered a lower share than the national average of jobs that were initially lost at the onset of the Pandemic, and staff began to compile additional data on 'recovered' jobs in the COG region and peer MSAs. Data also continue to show that the Washington MSA has lower 'return to office rates' (as measured by security key card use) than the national average for the 10 largest MSAs.

Housing Targets update

Staff received 24 competitive applications for the Housing Affordability Planning Program (HAPP) grants funded by Amazon and are beginning work to assess them. Modeled after TLC and other DTP programs, HAPP will competitively award small grants of up to \$75,000 each for efforts to maintain or increase affordable housing in HCTs and EEAs. DPCS staff established a HAPP Selection Committee composed of 5 local housing experts from DC, Maryland and Virginia and convened 2 meetings of the Committee to deliberate on grant recommendations.

In lieu of a monthly meeting, DCPs staff convened one on one calls with new members to discuss housing and employment forecasting methodologies.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	\$876,170	\$233,754	62%	59

9. MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

9.2 Regional Roadway Safety Program

The Selection Panel met on May 19, 2022 and reached a consensus to recommend four FY 2023 Regional Roadway Safety Program applications to the TPB for funding. Staff developed materials on this topic for presentation to the TPB Technical Committee at their regularly scheduled June 3, 2022, meeting.

Each of the five FY 2021 RRSP projects is currently underway with progress as described below:

- MD (Montgomery and Prince George's Counties -- MD 650 Safety Study) The consultant continued work to document the identified safety risks and develop recommendations.
- MD (Prince George's County Roadway Safety Audits) The consultant continued work to document safety issues and develop recommendations for the Belcrest Road and Sheriff Road corridors.
- MD (City of Laurel Roadway Safety Audit) The project team and relevant stakeholders
 conducted field audits of the corridor during peak and off-peak hours. The consultant
 compiled observations and reviewed relevant crash data in preparation for draft
 recommendations. The consultant also gathered and reviewed relevant data in preparation
 for conducting a speed study.
- VA (Arlington County School Zone Speed Camera Guidelines) The consultant finalized and submitted a Peer Review Memo to Arlington County and continued to work on the School Zone Selection and Speed Camera Implementation Guidelines. Preliminary findings were shared at the Virginia Highway Safety Summit on May 5, 2022.
- VA (Town of Herndon Herndon Parkway Complete Streets) The consultant developed and submitted draft cross-sections of the parkway for the Town's review and comment. Town of Herndon Staff coordinated with staff from the Virginia Department of Transportation to collect relevant cost data for facilities proposed in the preliminary design.
- Each of the five FY 2022 RRSP projects is currently underway with progress as described below:
- VA (City of Alexandria Near Miss Tool) NOVA Families for Safety Streets staff, City of Alexandria staff, the consultant, and TPB staff participated in a project kick-off meeting on May 20, 2022 and began discussions on the technical requirements of the near miss tool application.
- VA/MD (Arlington & Prince George's Counties Traffic Safety Gardens) Arlington County staff, Prince George's County staff, the consultant, and TPB staff participated in a project kick-off meeting on May 24, 2022. The participants discussed the project objectives, deliverables, and schedule, as well as a communication protocol.
- VA (Fairfax County Harrison Road Improvements) Fairfax County staff, the consultant, and TPB staff held a project kick-off meeting on May 9, 2022. The stakeholders reviewed the project goals and deliverables, in addition to the timeline for completing individual tasks.
- VA (City of Falls Church South Washington Street Pedestrian Improvements) City of Falls Church staff, the consultant, and TPB staff participated in a project kick-off meeting on May 18, 2022. The attendees discussed project objectives, scope, and schedule.

 VA (Prince William County – Graham Park Road Safety Improvements) - Prince William County staff, Town of Dumfries staff, the consultant, and TPB staff participated in a project kick-off meeting on May 9, 2022. The attendees discussed project objectives, scope, and schedule.

9.3 Transportation Alternatives Set-Aside Program6

The solicitation for TAP applications in Maryland was conducted between April 15 and May 16. At the end of May, MDOT staff sent TPB staff seven applications to consider for funding in our region. Staff began conducting a regional analysis of the applications. Staff also recruited a selection panel to review the applications and identify projects to recommend for funding. The panel will meet at the end of June to select a slate of projects. The TPB is scheduled to approve projects for funding in July.

9.4 Transportation/Land-Use Connections (TLC) Program

Staff began the consultant recruitment process for the 11 TLC projects selected for FY 2023. First steps included sending a questionnaire to pre-qualified consultants to determine their level of interest in the projects. Staff also worked with the jurisdictions to refine the projects' Statements of Work (SOWs) that will be used to solicit proposals.

Work on all 11 TLC projects for FY 2022 was underway and nearing finalization. See below:

- Discovery District Multi-Use Trail Transit Access Plan (College Park) Consultant had a key stakeholder meeting in person to review previously mentioned base maps and also met with the Discovery District Work Group. Draft final documents were circulated.
- Congress Heights Pedestrian Access Study (District of Columbia) The draft final report was circulated for review.
- Assessment of Microtransit (District of Columbia) The draft final report was circulated for review.
- Active Transportation Plan near the Huntington Metrorail Stations (Fairfax County) The draft final report was circulated for review.
- East End Transportation Study (Falls Church) The project team held a stakeholder meeting on May 19 with VDOT, City of Falls Church Staff, MWCOG staff, Northern Virginia Transportation Commission, Fairfax County DOT, Fairfax Planning, Arlington County DES, Arlington Long Range Transportation Planning, and WMATA staff. Elements of the study include: a summary of existing conditions; a description of planned future Transportation improvements in the vicinity; preliminary analysis of the potential transportation impacts of the future plan's development; and proposed future transportation improvements in the East End area.
- East Street Redesign (Frederick County) The contractor presented updated recommendations to the stakeholder group on May 26. The contractor revised recommendations based on feedback received at the 2nd stakeholder meeting.
- Greenbelt Road Corridor Plan (Greenbelt) The City of Greenbelt staff and the consultant coordinated to collect comments on the draft report from the public and relevant stakeholders, such as Maryland State Highway Administration (SHA).
- Connecticut Avenue Corridor Planning (Kensington Montgomery County) corridor study report was under development.

- Cool-Street Design Guidelines and Standards (Montgomery County) On May 20, the draft report was sent to Montgomery County to look over and provide comments on. I have not received updates on June activity.
- The Anacostia Gateway/PG Connector Trail Design Project (Prince George's County) –The consultant team is currently preparing the preliminary plans and Powerpoint presentation and will deliver to M-NCPPC and the other stakeholders by June 30.
- Innovation Park Shuttle Service Feasibility Study (Prince William County) The project team held a check-in conference call on May 26. A third deliverable, a preferred scenario implementation plan, was completed on May 6. The project is on schedule.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB MANAGEMENT AND SUPPORT	\$963,379	\$50,332	55%	61

10. TPB MANAGEMENT AND SUPPORT

Transportation Planning Board Committee Support and Management

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

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 May 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 a meeting 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/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.
- Metropolitan Washington Air Quality Committee

The Staff Director provided overall program management oversight of all the Department's activities.

Other additional activities for the TPB Staff Director for the month of May Telephone / Web Ex / Microsoft Teams Communications:

- CAOs Monthly Meeting
- MDOT-TRP/Op Lanes Status Report Discussion
- WMATA FY24 Fiscal Cliff-Status of Discussions
- AQ SIP & Conformity 6 Agency Call
- NARC's Major Metros Roundtable Biweekly Meeting
- Mongomery County Chamber of Commerce Infrastructure & Land Use Committee
- State Air & Transportation Agency Meeting
- ICF Team GHG Goals and Strategies Additional Analysis Results Discussion
- Equity Action Plan Stakeholder Briefing
- COG Staff GARE Team Briefing DTP Program Directors
- Staff Equity Enrichment Series #3
- Overview TPB Work Session on Climate Change
- AFA Candidate for Next Chair staff discussion

UPWP

Staff prepare monthly UPWP progress reports for each of the state agencies administering planning funding and prepare all necessary federal grant applications submissions. Staff reviews all monthly UPWP invoices going to each of the state agencies administering planning funding.

- Preparation of monthly UPWP progress reports for each of the state agencies administering planning funding and preparing all necessary federal grant applications submissions.
- Review all monthly UPWP invoices going to each of the state agencies administering planning funding.

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Task 11	BUDGET	Billed this month	% Funds Expended	UPWP Page
TECHNICAL ASSISTANCE	\$1,276,978	\$114,730	33%	63
District of Columbia	\$252,256	\$14,790	14%	63
Maryland	\$457,053	\$46,114	29%	65
Virginia	\$410,429	\$38,391	53%	68
Regional Transit	\$167,234	\$14,435	24%	71

11. TECHNICAL ASSISTANCE

11.1 District of Columbia

Program Development, Data Requests and Miscellaneous Services

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

Regional Safety Program

As part of the Regional Safety Program, five technical assistance projects were partially funded under the District of Columbia Technical Assistance Program. See the Regional Safety program section of this progress report for more details.

Transportation / Land Use Connections Program

As part of the Transportation/Land-Use Connections Program, the District of Columbia Technical Assistance Program is partially funding one technical assistance project in the District of Columbia. See TLC item above for further details about the TLC Program.

Climate Change Study

A climate change study is primarily being funded by the UPWP Core program with supplemental funding from the District of Columbia, Maryland, and Virginia Technical Assistance Accounts. See references in the progress report above, for further details about this study.

11.2. Maryland

Program Development, Data Requests, and Miscellaneous Services

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

Transportation / Land Use Connections Program

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

Climate Change Study

A climate change study is primarily being funded by the UPWP Core program with supplemental funding from the District of Columbia, Maryland, and Virginia Technical Assistance Accounts. See references in the progress report above, for further details about this study.

Regional Safety Program

As part of the Regional Safety Program, five technical assistance projects were partially funded under the Maryland Technical Assistance Program. See the Regional Safety program section of this progress report for more details.

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11.3. Virginia

Program Development, Data Requests, and Miscellaneous Services

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

Travel Monitoring and Survey

Active Transportation Counts

The contractor conducted spring active transportation counts at 12 locations along the Fairfax County Parkway Trail during one weekday and one weekend day at each location. Two locations experienced equipment failure in one day, weekend recounts at these two locations were rescheduled for June.

Staff redesigned the active transportation geodatabase layer to be more consistent among studies and to include all active transportation studies conducted by COG/TPB for VDOT from 2019. Staff met with VDOT staff to go over the new design, incorporated recommended changes, and delivered the database layer to VDOT staff. In addition, staff incorporated VDOT comments into the Spring 2021 Active Transportation Report and delivered the final report along with the detailed count excel files for each location to VDOT staff.

I-66 & I-395 Mode Share Study

This project is complete.

Climate Change Study

A climate change study is primarily being funded by the UPWP Core program with supplemental funding from the District of Columbia, Maryland, and Virginia Technical Assistance Accounts. See references in the progress report above, for further details about this study.

<u>Transportation / Land-Use Connections Program</u>

As part of the Transportation/Land-Use Connections (TLC) Program, three 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.

Regional Safety Program

As part of the Regional Safety Program, five technical assistance projects were partially funded under the Virginia Technical Assistance Program. See the Regional Safety program section of this progress report for more details.

11.4 Regional Transit

Program Development

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

Transit Within Reach

Three projects are currently underway.

High-Capacity Transit Map

No activity.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

Continuous Air System Planning Program Management

Staff updated the enplanement spreadsheet maintained for the CASP program with the latest March reports from MDOT and MWAA.

Staff continued to review applications submitted for the CASP Planner position.

Air Passenger Survey (APS)

Staff prepared and submitted funding request letters to BWI and MWAA.

Staff identified members of the Technical Selection Committee for the responses to the request for proposals for the Air Passenger Survey.

Staff reviewed and responded to questions about the request for proposals. Staff worked with Contracts and Procurement to prepare and issue an amendment.

Staff delivered a presentation at the 2022 American Association for Public Opinion Research Annual Conference focusing on the key findings from the Washington-Baltimore Regional Air Passenger Survey (APS) Response and Quality Rate Study.

Air Cargo Element Update

No Activity.

Ground Access Travel Time Study

No Activity.

Ground Access Forecast and Element Update

Staff continued work updating ground access origin/destination trip forecasts to the region's three large commercial airports using updated input data, including the Round 9.2 Cooperative Forecasts and data from the 2019 Washington-Baltimore Regional Air Passenger Survey.

Staff collected and formatted the FAA forecast enplanement data and latest land use data ready for the 2022 GAFU.

PROGRESS ON PLAN PRODUCTS

Task 3. Planning Elements

Regional Highway Safety Targets

- Draft targets presented to the TPB in December 2021
- Final targets adopted by the TPB in January 2022

Regional Bicycle and Pedestrian Plan Update

Plan adopted by the TPB in May 2022.

Task 4. Public Participation

Phase II Outreach for Visualize 2045

Release of findings – Winter 2022

Voices of the Region Storymap for Visualize 2045

- Product development September 2021 March 2022
- Product release April 2022

Task 5. Travel Forecasting

- A series of highway and transit networks reflecting the latest LRTP and TIP for input to the regional travel demand model.
 - o 2022 Update to Visualize 2045: Transportation networks have been developed for 2021, 2023, 2025, 2030, 2040, and 2045.
 - SIP work associated with the 2015 Ozone NAAQS: Transportation networks have been developed for 2017 and 2020.
 - Gen3 Travel Model: Transportation networks with four time-of-day periods have been developed for 2018 base year and the 2045 out year.
- Staffing the TPB Travel Forecasting Subcommittee: Staff have conducted meetings in July, September, November, January, March, and May.
- Maintenance, support for and development of currently adopted travel models, including inputs, application files, and documentation.
 - Staff are working to migrate from an older mode choice application program to a newer program.
 - Staff responded to support requests regarding running the regional travel demand model. In May, staff serviced two data requests (total of 32 for FY 22).
- Continued development, with consultant assistance, of the TPB's next-generation travel demand forecasting model, which will be an activity-based model (ABM), known as the Gen3 Model, which will occur over a three-and-a-half-year period, from FY 2020 to FY 2024.
 - Gen3, Phase 1 Model: A developmental model and associated technical documentation. This developmental travel model, which is designed for testing by TPB staff, was completed in Feb. 2022 (FY 22). The Gen3, Phase 1 Model has been estimated, calibrated, validated and delivered to COG staff for testing purposes.
 - Gen3, Phase 2 Model: Expected to be a production-use travel model that could be used for regional planning work. The model is expected in summer 2023 (i.e., late FY 23 or early FY 24). Work is being conducted under Task Order 4.
 - o Staff continues to manage consultant (RSG) developing the Gen3 Model.
 - Staff reviewed and provided feedback on consultant deliverables.

Task 6. Mobile Emissions Planning

- Air quality conformity analysis of the LRTP (2022 Update to Visualize 2045): Conduct runs of the travel model and mobile emissions model and prepare technical documentation.
 - o Travel demand modeling runs completed for 2021, 2023, 2025, 2030, 2040, and 2045.
 - Mobile emissions modeling MOVES2014b model runs conducted for 2021, 2023, 2025, 2030, 2040, and 2045.
- TPB Climate Change Mitigation Study of 2021 (CCMS). This study spans two fiscal years: FY 21 and FY 22.
 - COG/TPB staff presentations, FY 22
 - Morrow, Erin. "TPB Climate Change Mitigation Study of 2021 Overview and Update." presented at the October meeting of the National Capital Region Transportation Planning Board's Community Advisory Committee, held at the Metropolitan Washington Council of Governments, October 14, 2021.

- Morrow, Erin. "TPB Climate Change Mitigation Study of 2021 Overview and Update." presented at the November meeting of the National Capital Region Transportation Planning Board's Access for All Advisory Committee, held at the Metropolitan Washington Council of Governments, November 12, 2021.
- Srikanth, Kanti. "TPB Climate Change Mitigation Study of 2021: Final Report Update." Presented at the January meeting of the Technical Committee of the National Capital Region Transportation Planning Board, held at the Metropolitan Washington Council of Governments, January 7, 2022.
- Consultant presentations, FY 22
 - Grant, Michael. "TPB Climate Change Mitigation Study of 2021 Scenario Development." presented at the September meeting of the Technical Committee of the National Capital Region Transportation Planning Board, held at the Metropolitan Washington Council of Governments, September 10, 2021.
 - Grant, Michael. "TPB Climate Change Mitigation Study of 2021 Scenario Development." presented at the September meeting of the National Capital Region Transportation Planning Board, held at the Metropolitan Washington Council of Governments, September 22, 2021.
 - Grant, Michael, Kanti Srikanth, and Mark S. Moran. "TPB Climate Change Mitigation Study of 2021 - Report Findings." presented at the December meeting of the Technical Committee of the National Capital Region Transportation Planning Board, held at the Metropolitan Washington Council of Governments, December 3, 2021.
 - "TPB Climate Change Mitigation Study of 2021: Report Findings." presented at the December meeting of the National Capital Region Transportation Planning Board's Community Advisory Committee, held at the Metropolitan Washington Council of Governments, December 9, 2021.
 - "TPB Climate Change Mitigation Study of 2021: Report Findings." presented at the December Work Session of the National Capital Region Transportation Planning Board, held at the Metropolitan Washington Council of Governments, December 13, 2021.
 - Grant, Michael, and Mark S. Moran. "TPB Climate Change Mitigation Study of 2021: Report Findings." presented at the December meeting of the National Capital Region Transportation Planning Board, held at the Metropolitan Washington Council of Governments, December 15, 2021.
 - Grant, Michael, and Mark S. Moran. "TPB Climate Change Mitigation Study of 2021: Report Findings." Presented at the January meeting of the COG Climate, Energy and Environment Policy Committee, held at the Metropolitan Washington Council of Governments, January 26, 2022.
 - Grant, Michael, and Mark S. Moran. "TPB Climate Change Mitigation Study of 2021: Report Findings." presented at the February meeting of the National Capital Region Transportation Planning Board's Access for All Advisory Committee, held at the Metropolitan Washington Council of Governments, February 11, 2022.
- o COG/TPB staff documents, FY 22
 - Moran, Mark S. Memorandum to National Capital Region Transportation Planning Board. "TPB Climate Change Mitigation Study of 2021: Release of Literature Review with Executive Summary (Item #5, Steering Committee and Director Report)." Memorandum, July 15, 2021.
 - COG website: "TPB Climate Change Mitigation Study of 2021." Metropolitan Washington Council of Governments, July 15, 2021.

- https://www.mwcog.org/documents/2021/07/15/tpb-climate-change-mitigation-study-of-2021-climate-change-greenhouse-gas-scenario-planning/.
- TPB staff. Memorandum to TPB Community Advisory Committee. "TPB Community Advisory Committee Questions and TPB Staff Responses Regarding the October 14, 2021, TPB Staff Presentation on the TPB Climate Change Mitigation Study." Memorandum, November 9, 2021.
- o Consultant documents, FY 22
 - ICF. TPB Climate Change Mitigation Study of 2021: A Review of Climate Action Plans and Literature on Transportation Greenhouse Gas Emissions Reduction Strategies and Their Effectiveness. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, July 8, 2021.
 - ICF. TPB Climate Change Mitigation Study of 2021: Task 4 Technical Memo: Scenarios and Associated Greenhouse Gas Reduction Actions. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, August 25, 2021.
 - ICF. TPB Climate Change Mitigation Study of 2021: Task 5 Technical Documentation: Selection of Modeling Tools and Analysis Approach. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, November 5, 2021.
 - ICF, Fehr & Peers, and Gallop Corporation. TPB Climate Change Mitigation Study of 2021: Scenario Analysis Findings. Draft Report. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, December 9, 2021.
 - TPB Climate Change Mitigation Study of 2021: Technical Appendix.
 Draft Report. National Capital Region Transportation Planning Board,
 Metropolitan Washington Council of Governments, December 17, 2021.
 - ICF, Fehr & Peers, and Gallop Corporation. "TPB Climate Change Mitigation Study of 2021: Scenario Analysis Findings." Final Report. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, January 7, 2022.
 - ——. "TPB Climate Change Mitigation Study of 2021: Technical Appendix." National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, January 7, 2022.
 - ICF, Fehr & Peers, and Gallop Corporation. "TPB Climate Change Mitigation Study of 2021: Additional Transportation Scenarios Analysis: TPB Survey Identified Scenarios." Draft Report. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, May 12, 2022.
- Other climate change planning activities
 - Srikanth, Kanathur (Kanti). Memorandum to National Capital Region Transportation Planning Board. "Process to Solicit Member Input on Climate Change Mitigation Goals and Strategies and Incorporate TPB Action in the 2022 Update to Visualize 2045." Memorandum, February 10, 2022.
 - National Capital Region Transportation Planning Board. Climate Change Mitigation Goals and Strategies Questionnaire. Interview by TPB staff, February 28, 2022.
 - Srikanth, Kanti. "Update on Efforts to Meet 2030 Climate Goals, Local Actions and Opportunities." presented at the March meeting of the Metropolitan Washington Council of Governments Board of Directors, held at the Metropolitan Washington Council of Governments, March 9, 2022.

- Srikanth, Kanathur (Kanti). Memorandum to National Capital Region Transportation Planning Board. "TPB Climate Change Mitigation Survey – Update." Memorandum, March 10, 2022.
- Srikanth, Kanti, Erin Morrow, Dusan Vuksan, and Mark S. Moran. Memorandum to National Capital Region Transportation Planning Board. "Climate Change Mitigation Elements for Visualize 2045 – Preliminary Proposal." April 14, 2022.
- Canan, Timothy. "Results: TPB Climate Change Mitigation Goals and Strategies Questionnaire." presented at the Work Session, National Capital Region Transportation Planning Board, held at the Metropolitan Washington Council of Governments, April 20, 2022.
- Srikanth, Kanti. "Climate Change Mitigation Planning Elements: Preliminary Proposal, For Consideration." presented at the Work Session, National Capital Region Transportation Planning Board, held at the Metropolitan Washington Council of Governments, April 20, 2022.
- Srikanth, Kanti, Erin Morrow, Dusan Vuksan, and Mark Moran. Memorandum to National Capital Region Transportation Planning Board. "Research on Peer MPO On-Road Transportation Greenhouse Gas (GHG) Reduction Targets." Memorandum, April 27, 2022.
- Srikanth, Kanti. Memorandum to National Capital Region Transportation Planning Board. "Transportation Sector-Specific Climate Change Goals and Strategies for TPB's Plan and Planning Process." May 12, 2022.
- —. "Climate Change Mitigation Goals and Strategies to Recommend to the TPB:
 Options." presented at the Work Session, National Capital Region Transportation
 Planning Board, held at the Metropolitan Washington Council of Governments, May
 18, 2022.
- Moran, Mark. "Regional Electric Vehicle Deployment Plan Coordination: Recent Efforts by the Transportation Planning Board Regarding Climate Change Mitigation." presented at the COG Climate, Energy and Environment Policy Committee, held at the Metropolitan Washington Council of Governments, May 25, 2022.
- Technical activities, including preparation of mobile inventories and development of mobile budgets, and documentation related to the State Implementation Plans (SIPs) to meet the 2015 ozone NAAQS requirements.
- DEP and TPB staff continued to coordinate with state air agencies on plans related to development of Reasonable Further Progress (RFP) and Attainment State Implementation Plans (SIPs) to address requirements of the 2015 Ozone National Ambient Air Quality Standards (NAAQS).
- TPB staff worked with DEP staff, member jurisdictions, and state air agencies to facilitate various aspects of air quality and climate change planning activities.
 - Developed joint letter: Day, Robert, Metropolitan Washington Air Quality Committee (MWAQC), Deni Taveras, Climate, Energy and Environment Policy Committee (CEEPC), Charles Allen, National Capital Region Transportation Planning Board (TPB). Letter to Michael S. Regan and Administrator, U.S. Environmental Protection Agency. "Support for the Proposed Rule to Revise Existing National Greenhouse Gas Emissions Standards for Passenger Cars and Light Trucks through Model Year 2026; Docket ID No. EPA-HQ-OAR-2021-0208." Letter, September 22, 2021.
 - Developed joint letter: Day, Robert, Metropolitan Washington Air Quality Committee (MWAQC), Deni Taveras, Climate, Energy and Environment Policy Committee (CEEPC), Charles Allen, National Capital Region Transportation Planning Board (TPB). Letter to Steven Cliff and National Highway Traffic Safety Administration. "Support for the Proposed Corporate Average Fuel Economy Standards for Model Years 2024-

- 2026 Passenger Cars and Light Trucks; Docket ID No. NHTSA-2021-0053." Letter, October 18, 2021.
- Morrow, Erin, and Dusan Vuksan. Memorandum to National Capital Region Transportation Planning Board. "Revised 2023 and Later Model Year Light-Duty Vehicle Greenhouse Gas Emissions Standards: Final Rule." Memorandum, January 12, 2022.
- Upon finalizing the 2020 vehicle registration/vehicle identification number (VIN) decoding
 process based on the datasets provided to COG/TPB by the three state air agencies, TPB
 staff summarized and presented key findings to the TPB Technical Committee and MWAQCTAC. TPB staff also transmitted the decoded dataset to the three state air agencies.
- TPB staff also continued to conduct MOVES model tests to further refine greenhouse gas emissions modeling estimates for future studies.
- Transportation and Climate Initiative (TCI): Morrow, Erin. "Transportation and Climate Initiative (TCI): Model Rule, Summary of Public Input, and Additional Draft Documents Released." Memorandum. July 15, 2021.

Task 7. Travel Monitoring and Data Programs

Travel Surveys

- Geographic-focused Surveys Workplan
 - o Work to begin in Spring 2022
- 7-Day Panel-Evaluation of Effectiveness of Smartphone Data Collection Methodology (June 2022)
 - o Data analysis complete
 - o Memo with findings drafted; initial review complete
- COVID-19 Pandemic Travel Behavior Survey Literature Review (June 2022)
 - Data collection complete
 - o Memo with findings drafted and under review
 - o Release plan drafted

<u>Travel Analysis Studies and Research</u>

- Transportation Data Dashboard (June 2022)
 - Under development
- COVID-19 Pandemic Regional Travel Behavior (periodic updates)
 - Periodic updates and presentations delivered and to be delivered throughout performance period.
- COVID-19 Travel Monitoring Snapshots (periodic updates)
 - Snapshots published in July (May 2021 data), September (July 2021 data), October (August and September data), and January (October and November data)
 - o Future snapshots anticipated and under development

Task 8. Regional Land Use and Transportation Planning Coordination

Socioeconomic Forecasting

- Baseline Employment Guidance (June 2022)
 - Baseline Employment Guidance Memo updated and shared with the Cooperative Forecasting Subcommittee
- Travel Model Employment Definition Adjustment Factors (June 2022)
 - o Factors to be reviewed after next Baseline Employment Guidance update
- Activity Centers and High-Capacity Transit Station Area Forecasts (June 2022)
 - Under development

- Code Census Block Groups to TAZ (June 2022)
 - Complete
- Census 2020 reports and presentations (ongoing)
 - Initial draft and presentation complete to highlight demographic trends shown in the 2020 Census PL94-171 legislative redistricting data
- Cooperative Forecasting Round 10 workplan (December 2021)
 - o Complete
- Multifamily Housing Report (June 2022)
 - o Complete
- Commercial Construction Indicators Report (June 2022)
 - o Work to begin later in the fiscal year

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

- Ground Access Travel Time Update (June 2022)
 - o Work to commence soon.
- Ground Access Forecast Update (June 2022)
 - o In progress.

Coordinated Human Services Transportation Plan

- The current Coordinated Plan was adopted by the TPB in December of 2018
- The next Enhanced Mobility Solicitation will occur in the summer of 2023.
- The next update of the Coordinated Plan is in process. It is anticipated that the updated Coordinated Plan will be presented to the TPB in November of 2022 and approval of the plan sought in December 2022.

FY 2022 TRANSPORTATION PLANNING BOARD COG/TPB BUDGET EXPENDITURE SUMMARY May 2022

	DC, MD and VA		BILLED	
	FTA, FHWA and LOCAL	FUNDS	THIS	% FUNDS
	BUDGET TOTAL	EXPENDED	MONTH	EXPENDED
1. Long-Range Transportation Planning		-	-	
Long - Range Transportation Planning	1,045,435.13	914,127.25	88,530	87%
Subtotal	1,045,435.13	914,127.25	88,530	87%
2. Transportation Improvement Program				
Transportation Improvement Program	266,963.20	203,559.25	18,282.42	76%
TIP Database Support	200,000.00	171,327	13,302	86%
Subtotal	466,963.20	374,886.25	31,584.42	80%
3. Planning Elements				
Congestion Management Process	434,253.21	318,935.19	24,949.61	73%
Systems Performance, Ops & Tech Planning	632,941.76	340,572.6	25,798.73	54%
Transportation Emergency Preparedness Planning	128,257.20	92,206.72	11,212.38	72%
Transportation Safety Planning	311,703.59	207,719.32	19,105.57	67%
Bicycle & Pedestrian Planning	168,032.40	151,117.64	10,665.74	90%
Regional Public Transportation Planning	391,160.06	210,520.98	54,971.61	54%
Freight Planning	268,664.86	191,340.87	17,085.69	71%
Metropolitan Area Transportation Operation Coord Program Planning	170,787.19	139,840.58	15,683.88	82%
Performance-Based Planning & Programming	212,468.43	200,497.32	9,369.16	94%
	2,718,268.70	1,852,751.22	188,842.37	68%
4. Public Participation				
Public Participation	929,710.64	639,716.2	59,067.98	69%
Subtotal	929,710.64	639,716.2	59,067.98	69%
5. Travel Forecasting				
Software Support	226,785.46	136,349.28	12,132.4	60%
Network Development	1,012,945.63	815,283.17	77,528.53	80%
Model Development	1,527,605.72	1,159,525.56	151,841.38	76%
Subtotal	2,767,336.81	2,111,158.01	241,502.31	76%
6. Mobile Emissions Planning				
Air Quality Conformity	922,930.14	794,146.38	65,861.07	86%
Mobile Emissions Analysis	1,116,241.77	942,031.08	72,491.48	84%
Subtotal	2,039,171.91	1,736,177.46	138,352.55	85%
7. Travel Monitoring and Data Programs				
Regional Travel Survey	251,936.32	225,760.15	22,318.29	90%
Traffic Analysis & Research	591,214.05	179,228.79	16,812.01	30%
Regional Transportation Data Clearinghouse	324,078.11	177,135.96	12,674.06	55%
GIS Analysis	648,770.77	535,506.97	60,227.58	83%
Subtotal	1,815,999.25	1,117,631.87	112,031.94	62%
8. Planning Scenarios and Socioeconomic Forecasting				
Socioeconomic Forecasting	1,190,180.11	896,008.04	102,584.2	75%
Subtotal	1,190,180.11	896,008.04	102,584.2	75%
9. Mobility and Enhancement Programs				
Transportation and Land Use Connections Program	412,200.72	307,630.34	142,971.38	75%
Enhanced Mobility Grant Program	98,545.26	89,025.53	8,078.67	90%
Transportation Alternatives Set-Aside Programs	38,158.07	21,782.68	1,481.58	57%
Other Tasks to be defined 9.5	327,266.10	122,355.13	81,222.53	37%
Subtotal	876,170.15	540,793.68	233,754.16	62%
10. TPB Support and Management				
TPB Support and Management	963,378.33	529,465.67	50,332.63	55%
Subtotal	963,378.33	529,465.67	50,332.63	55%
Core Program	14,812,614.23	10,712,715.65	1,246,582.56	72%
A. District of Columbia Technical Assistance	7 7 7		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Program Development & Misc.	252,255.81	34,881.92	14,790.36	14%
B. Maryland Technical Assistance				
Program Development & Misc.	457,053.48	130,957.07	46,114.24	29%
C. Virginia Technical Assistance	131,033.10		,	2370
Program Development & Misc.	410,429.71	216,782.24	38,391.3	53%
D. Public Transit Technical Assistance	110,120.11	,. 02.2.1	55,551.0	2370
Program Development & Misc.	167,234.16	40,417.74	15,435	24%
Technical Assistance	1,286,973.16	423,038.97	114,730.9	33%
TPB Grand Total	16,099,587.39	11,135,754.62	1,361,313.46	69%
	10,000,001.00	11,100,104.02	1,001,010.40	03 /0

FY 2022 TRANSPORTATION PLANNING BOARD FINANCIAL STATUS OF TECHNICAL ASSISTANCE May 2022 SUPPLEMENT 1

		SUFFLE	.IVILIVI			
	TOTAL		FTA/STA/LOCAL		PL FUNDS/LOCAL	
	AUTHORIZED	TOTAL	AUTORIZED	FTA	AUTORIZED	FHWA
	BUDGET	EXPEDITURES	BUDGET	EXPENDITURES	BUDGET	EXPENDITURES
A. DC Technical Assistant						
Climate Chg Mit Study -DC	7,460.00	7,460.30	1,083.66	1,083.70	6,376.34	6,376.60
Program Development & Misc	10,999.68	8,655.23	1,597.84	1,257.28	9,401.84	7,397.95
TBD	7,500.00	0.00	1,089.47	0.00	6,410.53	0.00
TBD	196,296.13	4,766.39	28,514.41	692.38	167,781.72	4,074.01
TLC-DC	30,000.00	14,000.00	4,357.87	2,033.67	25,642.13	11,966.33
Subtotal	252,255.81	34,881.92	36,643.24	5,067.02	215,612.57	29,814.90
B. MD Technical Assistant						
Climate Chg Mit Study -MD	14,921.00	14,920.60	2,167.46	2,167.40	12,753.54	12,753.20
Feasibility/Special Studi	24,998.00	0.00	3,631.26	0.00	21,366.74	0.00
Program Development & Misc	15,000.22	9,024.91	2,178.97	1,310.98	12,821.25	7,713.93
Planning Studies	8,750.00	0.00	1,271.04	0.00	7,478.96	0.00
TBD	133,384.26	107,011.56	19,375.69	15,544.74	114,008.57	91,466.82
Transportation Performance Measures	260,000.00	0.00	37,768.18	0.00	222,231.82	0.00
Subtotal	457,053.48	130,957.07	66,392.60	19,023.11	390,660.88	111,933.96
C. VA Technical Assistant						
Big Data Study-VA	14,921.00	14,920.60	2,167.46	2,167.40	12,753.54	12,753.20
MARC - VRE Runthrough - VA	10,000.15	6,810.43	1,452.64	989.30	8,547.51	5,821.13
Program Development & Misc	8,750.00	0.00	1,271.04	0.00	7,478.96	0.00
TBD	6,359.64	2,000.00	923.82	290.52	5,435.82	1,709.48
Transportation/Land Use Connection Program	80,320.00	56,444.01	11,667.46	8,199.18	68,652.54	48,244.83
Travel Demand Modeling	85,079.43	0.00	12,358.83	0.00	72,720.60	0.00
Travel Monitoring	204,999.49	136,607.20	29,778.68	19,843.86	175,220.81	116,763.34
Subtotal	410,429.71	216,782.24	59,619.93	31,490.27	350,809.78	185,291.97
D. WMATA						
Program Development & Misc	5,000.07	6,482.74	5,000.07	6,482.74	0.00	0.00
TBD	37,234.09	0.00	37,234.09	0.00	0.00	0.00
Transit Within Reach Soli	125,000.00	33,935.00	125,000.00	33,935.00	0.00	0.00
Subtotal	167,234.16	40,417.74	167,234.16	40,417.74	0.00	0.00
Grand Total	1,286,973.16	423,038.97	329,889.93	95,998.15	957,083.23	327,040.82