FY2022

**National Capital Region
Transportation Planning Board**

Work Program Progress

April 2022

FY 2022

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	$65,650	79%	35

1. LONG-RANGE TRANSPORTATION PLANNING

Task 1.1 – Visualize 2045 Implementation

Staff that manages the long-range transportation plan activities, with the public participation team, conducted the public comment period and interagency review for the plan, TIP, and draft Air Quality Conformity analysis determination of the TIP and the Plan. They also conducted a two-part series of virtual forums to present the draft plan and highlight key elements and findings. Staff also made public two new products –a Story Map about the Voices of the Region outreach and what TPB learned from the outreach, and an interactive map to communicate visually about the projects in the constrained element of the plan.

Staff delivered briefings on the financial plan to the public virtual forums, the Technical Committee, and the TPB.

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.

Staff coordinated closely with the new TPB Communications Manager to implement a strategic plan for the rollout of the update to Visualize 2045, including releasing materials produced to raise awareness in the region of the April comment period. The approach included posting in numerous newspapers and sending out postcards across the region, with recipients including the TPB email list and participants of the Voices of the Region engagement to 'close the loop' with those that provided input. Staff updated the Visualize 2045 'Looking Back to Look Ahead' video for release during the public comment period. Staff continued to update the website Visualize2045.org to reflect those steps of the comment period and virtual forums (before, during, after).

Task 1.2 – Environmental Justice and Equity

Staff continues tracking the release of census data in order to update its Equity Emphasis Areas used to support the EJ analysis of the plan, noting the release of 2020 ACS data. Staff conducted a meeting to examine the pros/cons and availability of various forms of census data for use in updating the EEAs. Staff developed a detailed workplan for this activity.

Staff developed a draft scope of services for consultant support to produce a product to document equity considerations that can support regional transportation planning.

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

Task 1.3 – Future Plan Development

In April 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 posted on April 1, the draft: 2022 Update to Visualize 2045 plan and appendices, the FY 2023-2026 Transportation Improvement Program (TIP), their appendices and associated documentation Air Quality Conformity determination of the plan and TIP. This posting initiated the 30-day comment period and interagency review. Staff responded to questions in April in response to the draft documents and presentations on them, to clarify questions from TPB members, organizations, and individuals. TPB staff worked with technical agencies to address any minor technical corrections

needed for the plan and related documentation. Staff tracked incoming comments, began drafting a comment summary and organizing the comments for the complete listing of all comments

Staff finalized and delivered a series of presentations (with variants based on the receiving audience) to share information about Visualize 2045 in April with the TPB, the TPB Technical Committee, the board's Advisory Committees, and the public.

Staff updated the Visaulize2045.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 initiated internal conversations about potential online performance dashboards.

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 anti-racist 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	$26,937	74%	37

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1– Transportation Improvement Program (TIP)

TPB staff released the draft FY 2023-2026 TIP for a 30-day public comment and interagency review period on Friday, April 1. Staff placed a moratorium on the processing of amendments and administrative modifications to the current FY 2021-2024 TIP while the draft TIP was out for public comment. Staff worked with member agencies to provide corrections and clarifications to some project information that had been released for public comment.

2.2 – TIP Database Support

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 March under maintenance hours included adding a missing route to the automated list of routes available in Montgomery County and correcting the From and To fields on the TIP Project Overview report. 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: updates to the formatting and functionality of the LRTP and TIP Project Description Report.

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	$2,718,268	$116,031	%	39

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

Staff met with State DOT experts on the CMAQ Emissions Reductions and the CMAQ Traffic Congestion performance measures respectively in support of the federally required 2022 PBPP activities, including reports and 2022-2025 target-setting. TPB staff prepared materials for the Technical Committee on PBPP CMAQ Program performance vs. past targets and proposed new targets.

Staff updated PBPP content for the 2022 version of the Visualize 2045 long range transportation plan and the FY 2023-2026 TIP.

3.2 Congestion Management Process

Staff continued Congestion Management Process (CMP) data compilation and analysis for upcoming Quarterly Reports. Development of the biennial 2022 CMP Technical Report continued, with a goal to complete it by the end of FY 2022.3.3 Systems Performance, Operations, and Technology Planning

Preparations began for the May 10, 2022, meeting of the Systems Performance, Operations, and Technology Subcommittee.

3.4 Transportation Emergency Preparedness Planning

The regularly scheduled April 13, 2022, a virtual meeting of the Transportation Emergency Preparedness Committee (R-ESF 1) was organized and conducted, discussing current regional transportation emergency preparedness issues. Information was shared with the Committee regarding Metropolitan Area Transportation Operations Coalition (MATOC) and transportation agency response actions due to COVID-19.

3.5 Transportation Safety Planning

The regularly scheduled April 12, 2022, meeting of the Transportation Safety Subcommittee was organized and conducted. The agenda included a briefing on VDOT's emphasis area safety initiatives, an overview of Fairfax County's Active Fairfax Transportation Plan, and an update on the new Regional Bicycle and Pedestrian Plan.

Staff held planning sessions on April 5 and April 19 with the Transportation Safety Subcommittee Chair to identify topics and speakers for future Safety Subcommittee meetings.

3.6 Bicycle and Pedestrian Planning

The Bicycle and Pedestrian Plan was revised to address comments from the TPB, the Technical Committee, various TPB subcommittees, and member jurisdictions. The revised Plan and a presentation were prepared and posted for the May 6 TPB Technical Committee meeting.

Staff presented the TPB's comments on the draft Bicycle and Pedestrian Plan received during and after their March 2022 meeting, as well as corresponding staff responses to the TPB Technical Committee on April 1, 2022.

On April 12, staff briefed the Transportation Safety Subcommittee on the draft Bicycle and Pedestrian Plan.

Staff provided a Street Smart briefing to the Virginia Safety Task Force on April 12.

Staff presented the National Capital Trail Network to the Region Forward meeting on April 22.

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee met in April. The agenda included a staff presentation on the Visualize 2045 long range transportation plan, highlighting transit elements, and member presentations from WMATA on bus priority activities and from DC DFHV on the DC Neighborhood Connect service.

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.

Staff attended a WMATA Bus Priority meeting and the monthly WMATA JCC meeting.

3.8 Freight Planning

Staff, in consultation with the Freight Subcommittee Chair, developed the agenda and secured speakers for the regularly scheduled May 12, 2022, meeting of the TPB Freight Subcommittee.

Staff held planning sessions on April 6 and April 20 with the TPB Freight Subcommittee Chair to identify topics and speakers for future Freight Subcommittee meetings.

A Task Order was signed with the on-call consultant for work to develop an update to the National Capital Region Freight Plan.

3.9 Metropolitan Area Transportation Operations Coordination Program Planning

The regularly scheduled virtual meeting of the MATOC Severe Weather Coordination Working Group was organized and conducted on April 12, 2022, and was the final meeting of the 2021-2022 winter season for coordination of the region's winter weather response.

The regularly scheduled April 15 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 April 28, to discuss regional operational and traffic issues, including impacts of COVID-19.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	$929,710	$56,653	62%	45

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

Staff conducted public engagement activities related to the finalization of Visualize 2045. These activities included a public comment period that began on April 1 and ended on May 1. Staff conducted two virtual open houses on the evening of April 6 and at noon on April 7. Staff also planned a federally required forum on the Transportation Improvement Program (TIP), which was conducted in conjunction with the April CAC meeting. Staff used a variety of communications to advertise the comment period and various events, including newspaper advertisements, emails, social media, and mailed postcards.

The TPB's Community Advisory Committee (CAC) met on April 14 for an online-only meeting. The meeting was divided into two parts, including a public forum on the Transportation Improvement Program (noted above) and a briefing on the Visualize 2045 long-range plan update. TPB staff briefed the committee on drafts of the 2022 update to Visualize 2045 and the Air Quality Conformity determination. The presentation also included highlights on funding and forecast performance. Staff answered committee questions on topics ranging from the predictability of federal funding and setting aside a percentage of highway funding on transit and safety projects.

Staff released a GIS storymap to summarize all the outreach activities conducted for Visualize 2045 – the survey, focus groups, and open outreach through QR code posters.

A virtual AFA meeting was held on April 8:

- Visualize 2045
    - o TPB staff presented the draft plan and TIP, including regional context, financial plan, draft findings of the Air Quality Conformity analysis, and the regional transportation system performance analysis.
    - o Discussion following the presentation addressed
        - the impact of projected congestion on quality of life for populations dependent on transit or paratransit
        - analysis on trips not job-related
        - the extent of information on trips by bike or walking
    - o Staff will send out a follow-up email to the entire membership, inviting additional comments. AFA comments will be consolidated into a memo and included in public comments due May 1, 2022.
- 2022 Update of The Coordinated Human Service Transportation Plan for The National Capital Region – Unmet Need
    - o Staff provided a brief overview of the components and expectations for the update of the Coordinated Human Service Transportation Plan, and introduced themes as a framework for discussion of the first component; unmet needs:
        - Availability – geographically, days and times of service, number of options for different needs, technologically disadvantaged, etc.
        - Awareness – what exists overall and for specific needs, centralized, easy to find (no wrong door), who knows it and is sharing it, formats of information, etc.

- ▪ Accessibility - wheelchair accessibility, dependability, the unbanked, traditionally underserved populations, language, those without smart phones/computers, bus stop access/sidewalks, first mile/last mile, etc.
      - ▪ Affordability – cost, availability of subsidy, funding opportunity, alternatives to Metro Access, etc.
      - ▪ Other – anything not included in the other categories, for example: trained drivers and staff, cleanliness, safety, etc.
    - o Attendees were randomly assigned to breakout rooms where TPB staff facilitated a discussion on unmet need within the themes. The sessions were recorded, and a summary will be sent to the entire membership for review, further comments, and additions.
- • Other Business
    - o Chair Aguirre requested attendees complete the 2022 AFA Membership Confirmation and Title VI questionnaire
    - o Chair Aguirre shared information about a study MITRE is doing on how e-scooters can improve access to jobs for people with low income and is looking for partners to help reach out to individuals for the project.
    - o Chair Aguirre provided a reminder of the remaining 2022 meeting dates.

Staff sent an email to the entire AFA membership providing an opportunity to comment on Visualize 2045, compiled comments into a memo, and presented the memo to TPB staff for inclusion as part of the formal public comments.

4.2 Communications

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

- • **TPB invites comments on the region's long-range transportation plan**
  April 1, 2022

- • **Podcast: Electric vehicles in the DMV**
  April 4, 2022

- • **COG policy committees support Region United priorities**
  April 6, 2022

- • **TPB supports 11 local planning projects that promote walkable, bikeable, and transit-oriented communities**
  April 20, 2022

- • **Local initiatives create more transit-oriented communities across the region**
  April 21, 2022

- • **Increase in pedestrian, bicyclist deaths prompt action across D.C. region**
  April 26, 2022

- • **Visualize 2045 plan update offers interconnected solutions for the region's transportation challenges**
  April 28, 2022

- • **April 2022 TPB meeting recap**
  April 28, 2022

Staff updated pages on the COG website related to transportation.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	$2,766,336	$121,215	68%	47

5.1 TRAVEL FORECASTING

5.1 Network Development

Per request from the Town of Leesburg, Virginia, COG staff developed a highway network plot for town staff to review. Staff updated the regional highway network to correct network coding errors reported by local planning agency staff.

Network development staff coordinated with GIS staff about the definition of high-capacity transit, which is also known as fixed-guideway transit.

Staff responded to a query from the Virginia Department of Transportation about the Maryland Beltway express lanes project.

Staff have been working on a major update of the COGTools User's Manual. Staff developed an updated version of the User's Manual, dated April 15. In response to the comments and suggestions received from the latest internal review, staff worked to finalize the document. Staff continued to develop a new Station Management module in COGTools to update the station table in the network database. Staff investigated and fixed an issue in COGTools related to the "eliminate link" function, which resulted in a new release of COGTools on April 26. Staff investigated an issue related to the maximum 144-column limit in transit line files and proposed to implement a fix in the network database. This task was put on hold in April due to other work priorities.

Staff prepared a draft Gen2/Ver. 2.4 Model Highway and Transit Networks Report, dated April 22. The report is currently under internal review.

Staff created a memo, dated April 7, that documents the development of four time-of-day transit networks, with the additional PM peak and nighttime periods, in the network database.5.2 Model Development and Support

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months, so it did not meet in April. Nonetheless, staff prepared meeting highlights for the March 25 meeting.

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

Staff are in the process of preparing the Gen2/Ver. 2.4 Model Transmittal Package, which will be released after the 2022 Update of Visualize 2045 is approved by the TPB in June 2022. In April, staff completed the preparation of modeling files and summary tables. Staff started to prepare the transmittal memorandum and a cover letter.

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. This task was put on hold in April due to other work priorities.

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:

- The April 14 check-in meeting with RSG and BMG, the consultants on the Gen3 Model development project, was cancelled and the April 28 meeting was moved to May 3.
- Staff continued to work on the Gen3, Phase 1, Model received from RSG on January 8. Specifically, in support of future sensitivity analyses, staff worked to create a script that summarizes the disaggregate modeling data for a subset of population. Staff requested and received an example script from RSG on April 14. Staff created an ArcGIS map and extracted a list of Transportation Analysis Zones (TAZ) within a 2-mile buffer of variable-cost tolling facilities for further testing.
- 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,
    - RSG has been working on the integration of auxiliary trip tables, also known as exogenous trip tables, into the Gen3, Phase 2 Model. RSG staff documented the proposed methodologies of modeling auxiliary travel markets in a draft memo. COG staff reviewed three different versions of the memo and provided feedback. In support of this effort, staff also compiled and shared the year-2014 AirSage data files and a technical memorandum with RSG on April 20.
    - COG staff have been tasked with estimating four component models between April and July. In April, staff reviewed the model estimation materials shared by RSG and attempted to run model estimation following the RSG guidance. Staff reached out to RSG on April 27, reporting issues from the testing, and scheduled a training session for May 13.
    - COG staff have been tasked with developing forecasted school enrollment data for the horizon year of 2045. RSG reached out to the ActivitySim Consortium and TPB staff reached out to COG's Department of Community Planning and Services (DCPS) seeking help on the possible methodologies for school enrollment projection. As part of this effort, staff compiled a list of new schools since 2018 based on local school Capital Improvement Plans (CIPs), Educational Facility Master Plans (EFMPs), and the Homeland Infrastructure Foundation-Level Data (HIFLD).
    - Staff continued testing the multipathing feature of the Public Transport (PT) software module for the Gen3, Phase 2, Model. Specifically, staff proposed new specifications in the PT factor/system files on April 8 and revised them based on feedback from RSG on April 10. Staff conducted a test run with the updated PT factor/system files on April 14 and investigated modeling results.
    - Staff prepared all the 2045 model inputs except for school enrollment and PT factor/system files. The input files are currently under internal review.
    - Staff tested a zonehwy.net related bugfix that staff implemented in March and verified that the fix worked in a test run. Staff subsequently checked the bugfix in on GitHub.
    - Staff created a batch file to move .h5 and .rte (Iterations 1-3) files into a "temp_files" folder, which can be deleted later to save storage space. Staff tested the batch file in a separate process. The testing of the batch file in an integrated modeling process will resume after RSG fixes the Visualizer and LineSum issues in the model chain.

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, using a new web-based interface called C3HUB.

Other activities

Staff serviced one data request from VDOT for selected output files from our production-use Ver. 2.4 Travel Model for years 2017 and 2030 from the 2020 Amendment to Visualize 2045.

Staff attended Staff Learning Seminars - Equity Emphasis Area-Session 3 on April 14.

Staff attended the ActivitySim Monthly Partners-Only Check-In meeting on April 21. 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	$101,121	78%	51

6. MOBILE EMISSIONS PLANNING

6.1 Air Quality Conformity

Staff continued to 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 the network development process, travel demand modeling, and emissions analysis, staff continued to conduct review and reasonableness checks of the results against the findings from previous analyses. Staff finalized the performance analysis of the plan using the measures identified by COG's Plan Development and Coordination (PDC) Team. Staff continued with development of the full air quality conformity report and worked with staff from other teams to develop presentations on the performance of the plan for various committees. Consequently, staffed shared draft air quality conformity and plan performance findings with TPB Technical Committee (item #5), Conformity Subcommittee, public virtual open houses (April 6 and April 7), Access For All Committee (item #2), Metropolitan Washington Air Quality Committee Technical Advisory Committee (item #2), Community Advisory Committee, and TPB (item #8).

Staff continued review of the Project InfoTrak (PIT) database to ensure that the conformity records for the PIT projects match the final conformity project input table as approved by the Transportation Planning Board (TPB) in the summer of 2021.

Staff met with the state departments of transportation to coordinate goal review and target setting for Congestion Mitigation and Air Quality (CMAQ) performance-based planning and to discuss the CMAQ Performance Plans that are due to be submitted to the feds in October 2022. Staff

summarized emissions benefits of CMAQ projects in the CMAQ Public Access System to compare those to the targets set in 2018.

In accordance with the TPB consultation procedures, staff forwarded to the consultation agencies and public advisory committees the April 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. TPB staff summarized the survey responses and documented the results in staff memoranda. TPB members were briefed on the survey findings and next steps at the TPB meeting (item #9). Staff also provided detailed briefings to TPB members on the survey findings and preliminary climate change mitigation elements for TPB's consideration during a special work session on transportation-sector climate change mitigation and goals that took place prior to the regularly scheduled TPB meeting (April 20).

TPB staff and staff from COG's Department of Environmental Programs (DEP) 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).

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 worked closely with DEP staff on update of regional greenhouse gas inventories and technical processes related to the effort. TPB staff and DEP staff also continued to assist local jurisdictions with climate change planning.

Staff finalized a joint TPB/MWAQC/CEEPC comment letter on new EPA proposed heavy-duty vehicle standards. Staff shared the letter with each committee and got approval before posting the letter on the federal docket on April 15. TPB Technical Committee (Other Business), TPB Steering Committee, and MWAQC-TAC (item #2) received briefings related to the letter.

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 different ways to modelpollutant emissions to maintain consistency with the recently released Gen2/Ver. 2.4 Travel Demand Model.

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	$1,815,999	$98,371	55%	53

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Travel Surveys
Smartphone Panel Survey
Staff began drafting a memo summarizing the key findings from this evaluation of the 7-day smartphone panel survey.

COVID-19 Literature Review

Staff completed a memo summarizing the overall findings and trends from key transportation surveys measuring the impacts to travel behavior from COVID-19 that inform regional transportation planning.

Other

Staff closed the TPB Climate Change Mitigation Survey Goals and Strategies Questionnaire and summarized the responses. Staff prepared a memo as well as a presentation with the results. Staff shared the results during the TPB Climate Work Session on April 20th.

Staff submitted a proposal for a presentation at the 2022 AMPO Annual Conference titled: "A Review of Transportation Surveys Measuring Impacts to Travel Behavior from COVID-19 that Inform Regional Transportation Planning"

Staff met with the Systems Performance Planning Team to discuss best practices and lessons learned from past surveys/questionnaires targeted to member jurisdictions and agencies.

Staff responded to an inquiry about the Capital Region Travel Survey, a survey of commercial vehicle operators within the DC region.

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 finalized the data analysis for the Pre-pandemic through February 2022 Covid Travel Monitoring Snapshot and posted it on the COG/TPB website.

Transportation Data Dashboard

No activity.

Equity and High-Capacity Transit Focus

Building on the resolutions of the COG Board of Directors and the TPB to optimize High-Capacity Transit (HCT) and elevate Equity Emphasis Areas (EEAs) as planning tools, staff continued to develop, adjust, and refine maps and visualizations of the region's EEAs and HCT).

Other Activities

Staff delivered a fourth presentation on the RTS In-Depth Analysis project to the TPB Technical Committee. Following the meeting, staff prepared a summary of the agenda item.

Staff researched how to obtain active transportation counts from the region's continuous active transportation counters and brainstormed ideas for accounting for missing and poor-quality data.

Staff worked as a team to prepare and present the results of technical analyses of various Regional Travel Survey (RTS) data items in order to answer questions from regional stakeholders about the RTS findings. Staff presented the final group of these analyses to the Transportation Planning Board Technical Committee on April 1.

7.3 Regional Transportation Data Clearinghouse

Staff prepared technical documentation on the process to update and publish Vehicle Miles Traveled (VMT) datasets to the RTDC.

Staff began 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 compared the NBI files available in ASCII format with online mapping sources of the data and developed a plan for populating and updating bridge data in the RTDC. Staff created a geodatabase layer from the 2021 NBI ASCII files and will use this as a spatial reference to which to join previous years' NBI attributes.

Staff continued to work to update the HPMS and pavement geodatabases for 2020 and previous years. Staff answered questions about the regional VMT trend tables, both for the RTDC data refresh and for TFEA team staff interested in using the data.

Staff began updating the spatial and tabular traffic count data collected and processed by staff. Staff are currently refining the process by which the data is prepared, published, and shared to the RTDC.

Staff responded to the Office of Communications (OC) regarding a request from a Washington Business Journal reporter requesting the availability of spatial data for Activity Centers and High-Capacity Transit (HCT) Stations. Staff directed OC to refer the reporter to the RTDC to download the available data.

Staff responded to the Planning and Research Program Director regarding the availability of the High-Capacity Transit (HCT) dataset on the RTDC.

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 responded to an inquiry from Department of Environmental Programs (DEP) staff regarding the availability of Transportation Analysis Zone (TAZ) data in the RTDC.

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 began to plan the May 17 GIS Committee/GDX Working Group virtual meeting.

Staff responded to a request from COG's Office of Communications (OC) to produce new graphics files of the map of High-Capacity Transit (HCT) stations and Equity Emphasis Areas (EEA) using the COG Member boundary file containing COG's adjunct members.

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

Staff reviewed the draft Visualize 2045 plan document and submitted suggestions to the Plan Development and Coordination team for replacing some of the current URL references to maps and related content.

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

Staff are continuing to work with IT staff to determine the protocol and permissions necessary for staff to manage ArcGIS databases on the COG SQL server and SQL Management Studio.

Staff attended the Region Forward Coalition meeting held on April 22.

Task 8	BUDGET	Billed this month	% Funds Expended	UPWP Page
REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION	$1,190,179	$61,514	67%	57

8. REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION

8.1 Socioeconomic Forecasting

Planning for Round 10

DCPS staff completed work on the 2020 Census block to COG TAZ conversion and finished distributing the appropriate files to individual Subcommittee members. DCPS staff also continued to work on finalizing geo-coding of the DataAxle employment file and continued to share individual jurisdictional databases with Subcommittee members.

DCPS staff finalized the list of tasks for consultant assistance in preparing the Round 10 Forecasts and met on April 6 and April 20 with the ICF team to discuss the proposed project. ICF is providing professional services to support the timely completion of the regional, jurisdictional, and small-area Round 10 Cooperative Forecasts, 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 meeting on April 12. 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.

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. Staff began to compile additional data on 'recovered' jobs in the COG region and peer metropolitan statistical areas (MSAs).

DCPS Director briefed the National Capital Planning Commission (NCPC) on the Cooperative Forecasts and COVID impacts to the economy at their April 7 meeting

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 local technical assistance 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.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	$876,170	$27,272	35%	59

9. MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

The Enhanced Mobility Program Management Plan, which was last approved by the Federal Transit Administration in 2016, is currently being updated.

Staff was invited to present to the Montgomery County Commission on Aging's transportation subcommittee on the state of regional transportation with a focus on older adults and people with disabilities and worked with committee members and fellow presenters to plan for the May 10th event.

9.2 Regional Roadway Safety Program

Ten applications for the third round (FY 2023) of Regional Roadway Safety Program (RRSP) technical assistance were received by the March 18 deadline. Staff conducted an analysis of the applications, and the Selection Panel will meet on May 19, 2022, to determine which of them to recommend for funding.

Consultant proposals for the second round (FY 2022) of the Regional Roadway Safety Program were reviewed and scored by the relevant Technical Selection Committees (TSCs), the winning firms were notified, and task orders executed in mid-April 2022. Kick-off meetings for each of the projects will be held in May 2022.

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 led two progress update meetings and hosted a meeting on April 25 to review the complete list of identified safety risks and recommended countermeasures.
- MD (Prince George's County - Roadway Safety Audits) - The consultant reviewed the findings of the field visits to the Belcrest Road and Sheriff Road corridors and continued work to develop recommendations.
- MD (City of Laurel - Roadway Safety Audit) - The consultant coordinated with MDOT SHA, reviewed signal timing plans, and analyzed crash data in anticipation of conducting field reviews. The consultant also prepared and distributed a draft Technical Memorandum summarizing existing conditions in the Bowie Road corridor.
- VA (Arlington County - School Zone Speed Camera Guidelines) - The consultant submitted a revised memo to Arlington County summarizing School Zone Speed Camera programs in other jurisdictions. The consultant also hosted a check-in meeting with County staff on April 25 to share initial thoughts on implementation guidelines and to preview its school zone selection tool. Work on developing implementation guidelines is ongoing.
- VA (Town of Herndon – Herndon Parkway Complete Streets) - The consultant developed and submitted draft plan sets for review and comment. Town of Herndon staff provided revisions in response to the design concepts. The consultant continues to revise the plans to address the Town's recommendations.

9.3 Transportation Alternatives Set-Aside Program

Staff prepared for the solicitation for TAP applications in Maryland, which was conducted between April 15 and May 16.

9.4 Transportation/Land-Use Connections (TLC) Program

The FY 2023 TLC selection panel met on March 24 and 29, and ultimately selected 11 projects for funding. The recommendations were presented to the TPB Technical Committee on April 1. The TPB approved them on April 20. Staff began the consultant recruitment process.

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

- Discovery District Multi-Use Trail Transit Access Plan (College Park) – Consultant base-mapped the entire project area including all proposed state and local projects in design and construction. Consultant conducted site visits to determine the best locations and opportunities for additional trails. Consultant had a key stakeholder meeting in person to review previously mentioned base maps and have set up a May 12 meeting with the Discovery District Work Group.
- Congress Heights Pedestrian Access Study (District of Columbia) – The consultant delivered a draft of the final report for review.
- Assessment of Microtransit (District of Columbia) – The project moved toward finalization in April. Various documents were reviewed by DC staff. A focus group was conducted in April at which draft recommendations were reviewed and discussed.
- Active Transportation Plan near the Huntington Metrorail Stations (Fairfax County) – A draft of the plan was developed and reviewed by stakeholders. The project moved toward finalization in April.
- East End Transportation Study (Falls Church) – The Consultant continued with the Small Area Plan (SAP) mobility chapter development and started estimating trip generation by conventional and MXD methods to assess traffic impacts in the East End Transportation Study area. The city staff provided feedback about this. The Consultant and City staff also started to review a draft mobility network for the west Falls Church area. This included updated guidance about the proposed Ring Road, Route 7 BRT, and other transportation facilities not included in the MWCOG plan. The project team planned to hold a stakeholder meeting sometime in mid-May with VDOT, Northern Virginia Transportation Commission, Fairfax County, Arlington County, etc.
- East Street Redesign (Frederick County) – The contractor developed recommendations and presented the recommendations to the city staff. The contractor and City staff met in late April to prepare the 2nd stakeholder/public meeting in May.
- Greenbelt Road Corridor Plan (Greenbelt) – The consultant developed and submitted to the City of Greenbelt staff a draft final report for review and comment. City staff provided initial comments and revisions for the draft report.
- Connecticut Avenue Corridor Planning (Kensington – Montgomery County) – A public workshop will be held April 21 in the town armory. The project is on schedule.
- Cool-Street Design Guidelines and Standards (Montgomery County) – In late April, there was a meeting held to update Montgomery County on the status of report. On May 20, the draft report was sent to Montgomery County to look over and provide comments on.
- The Anacostia Gateway/PG Connector Trail Design Project (Prince George's County) – The consultant met with M-NCPPC staff to work through some design issues. The preliminary design is progressing, and M-NCPPC staff will schedule a meeting with COG, DPWT and MDOT SHA in early June to review. The consultant team plans to complete their preliminary plan submission by the end of June.
- Innovation Park Shuttle Service Feasibility Study (Prince William County) – The project team held a check-in conference call on April 12. A third deliverable, a preferred scenario implementation plan, was in progress and scheduled to be 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	$40,270	50%	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 **April** 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 April
Telephone / Web Ex / Microsoft Teams Communications:

- White House MPO Roundtable 1
- Transportation Conformity Sub-Committee

- CAOs Monthly Meeting
- Region United: Metropolitan Washington
- EPA R3 RA & Washington Council of Governments Meet & Greet / A. Ortiz
- Virtual Open House – Visualize 2045
- WBJ Staff Roundtable – Region United
- Major Metros Roundtable Biweekly x 2
- WTOP / other Media Prep
- TRP / Follow-up
- COG Board Debrief
- Equity Emphasis Areas – Session 3
- CAC 2022 – TIP Forum
- TPB Climate Work Session Follow up staff discussion
- Region Forward Coalition

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.

Task 11	BUDGET	Billed this month	% Funds Expended	UPWP Page
TECHNICAL ASSISTANCE	$1,276,978	$21,886	24%	63
District of Columbia	$252,256	$658	8%	63
Maryland	$457,053	$658	19%	65
Virginia	$410,429	$1,937	43%	68
Regional Transit	$167,234	$18,631	15%	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.

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's price quote for spring 2022 active transportation counts was accepted and COG issued the Notice to Proceed. The kick-off meeting for the spring 2022 active transportation counts was held on April 29 with COG/TPB staff, VDOT staff, and the consultant. The spring counts are scheduled for May 2022.

I-66 & I-395 Mode Share Study

Staff revised the study memos and transmittal files for the I-66/I-395 mode share study based on VDOT and NVTC staff comments. Staff delivered the final product to VDOT and NVTC. In addition, staff noted the comments for reference when conducting future mode share studies.

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.

Transportation / Land-Use Connections Program

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

Staff assisted the Planning Data and Research Program Director to plan a meeting with relevant staff to discuss the criteria used to define High-Capacity Transit (HCT) in TPB's work. The meeting was held on April 19. Staff will be meeting with the Planning Data and Research program Director to define next steps.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

Continuous Air System Planning Program Management

Staff updated the enplanement spreadsheet maintained for the CASP program.

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

Air Passenger Survey (APS)

Staff finalized the 2022 APS scope of work and coordinated with the Office of Facilities and Purchasing to release request for proposals.

Staff reviewed the statistical programs and investigated the data processing as well as sampling process developed for the 2019 APS in preparation for the 2022 APS.

Staff developed a memo to document changes to survey timing. A pretest is scheduled for Fall 2022 and full-scale survey for Spring 2023.

Staff investigated the possibility feasibility of using flight data provided directly by the Airport for developing the 2022 APS sample.

Air Cargo Element Update

No Activity.

Ground Access Travel Time Study

No Activity.

Ground Access Forecast and Element Update

Staff reviewed the statistical programs for the Ground Access Forecast Update. Staff began 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.

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 to be 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.
    - 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 is 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 April, staff serviced one data request (total of 29 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.

- o 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.
- o 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.
- o 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.
    - o 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.
    - o 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.
    - o 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.

- 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.

- 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.

- o 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.
- o 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 MWAQC-TAC. 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)

    o Data collection complete

    o Memo with findings drafted and under review.

Travel Analysis Studies and Research

- Transportation Data Dashboard (June 2022)

    o Under development

- COVID-19 Pandemic Regional Travel Behavior (periodic updates)

    o Periodic updates and presentations delivered and to be delivered throughout performance period.

- COVID-19 Travel Monitoring Snapshots (periodic updates)

    o 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)

  o   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)

  o   Under development

- Code Census Block Groups to TAZ (June 2022)

  o   Complete

- Census 2020 reports and presentations (ongoing)

  o   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   In progress.
- Ground Access Forecast Update (June 2022)
  o   Work to commence later this year

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
April 2022

	DC, MD and VA FTA, FHWA and LOCAL BUDGET TOTAL	FUNDS EXPENDED	BILLED THIS MONTH	% FUNDS EXPENDED
1. Long-Range Transportation Planning				
Long - Range Transportation Planning	1,045,435.13	825,597.25	65,650.69	79%
Subtotal	**1,045,435.13**	**825,597.25**	**65,650.69**	**79%**
2. Transportation Improvement Program				
Transportation Improvement Program	266,963.20	185,276.83	13,635.89	69%
TIP Database Support	200,000.00	158,025	13,302	79%
Subtotal	**466,963.20**	**343,301.83**	**26,937.89**	**74%**
3. Planning Elements				
Congestion Management Process	434,253.21	293,985.58	21,426.43	68%
Systems Performance, Ops & Tech Planning	632,941.76	314,773.87	19,112.26	50%
Transportation Emergency Preparedness Planning	128,257.20	80,994.34	7,985.54	63%
Transportation Safety Planning	311,703.59	188,613.75	14,935.32	61%
Bicycle & Pedestrian Planning	168,032.40	140,451.9	12,277.47	84%
Regional Public Transportation Planning	391,160.06	155,549.37	5,296.88	40%
Freight Planning	268,664.86	174,255.18	13,588.67	65%
Metropolitan Area Transportation Operation Coord Program Planning	170,787.19	124,156.7	12,245.38	73%
Performance-Based Planning & Programming	212,468.43	191,128.16	9,163.65	90%
Subtotal	**2,718,268.70**	**1,663,908.85**	**116,031.6**	**61%**
4. Public Participation				
Public Participation	929,710.64	580,648.22	56,653.86	62%
Subtotal	**929,710.64**	**580,648.22**	**56,653.86**	**62%**
5. Travel Forecasting				
Software Support	226,785.46	124,216.88	5,941.12	55%
Network Development	1,012,945.63	737,754.64	61,042.62	73%
Model Development	1,527,605.72	1,007,684.18	54,231.92	66%
Subtotal	**2,767,336.81**	**1,869,655.7**	**121,215.66**	**68%**
6. Mobile Emissions Planning				
Air Quality Conformity	922,930.14	728,285.31	46,808.03	79%
Mobile Emissions Analysis	1,116,241.77	869,539.6	54,313.2	78%
Subtotal	**2,039,171.91**	**1,597,824.91**	**101,121.23**	**78%**
7. Travel Monitoring and Data Programs				
Regional Travel Survey	251,936.32	203,441.86	18,024.59	81%
Traffic Analysis & Research	591,214.05	162,416.78	20,749.3	27%
Regional Transportation Data Clearinghouse	324,078.11	164,461.9	10,687.33	51%
GIS Analysis	648,770.77	475,279.39	48,910.43	73%
Subtotal	**1,815,999.25**	**1,005,599.93**	**98,371.65**	**55%**
8. Planning Scenarios and Socioeconomic Forecasting				
Socioeconomic Forecasting	1,190,180.11	793,423.84	61,514.66	67%
Subtotal	**1,190,180.11**	**793,423.84**	**61,514.66**	**67%**
9. Mobility and Enhancement Programs				
Transportation and Land Use Connections Program	412,200.72	164,658.96	7,565.29	40%
Enhanced Mobility Grant Program	98,545.26	80,946.86	8,043.12	82%
Transportation Alternatives Set-Aside Programs	38,158.07	20,301.1	1,282.29	53%
Other Tasks to be defined 9.5	327,266.10	41,132.6	10,382.22	13%
Subtotal	**876,170.15**	**307,039.52**	**27,272.92**	**35%**
10. TPB Support and Management				
TPB Support and Management	963,378.33	479,133.04	40,270	50%
Subtotal	**963,378.33**	**479,133.04**	**40,270**	**50%**
Core Program	**14,812,614.23**	**9,466,133.09**	**715,040.16**	**64%**
A. District of Columbia Technical Assistance				
Program Development & Misc.	252,255.81	20,091.56	658.64	8%
B. Maryland Technical Assistance				
Program Development & Misc.	457,053.48	84,842.83	658.64	19%
C. Virginia Technical Assistance				
Program Development & Misc.	410,429.71	178,390.94	1,937.19	43%
D. Public Transit Technical Assistance				
Program Development & Misc.	167,234.16	24,982.74	18,631.72	15%
Technical Assistance	**1,286,973.16**	**308,308.07**	**21,886.19**	**24%**
TPB Grand Total	**16,099,587.39**	**9,774,441.16**	**736,926.35**	**61%**

	TOTAL AUTHORIZED BUDGET	TOTAL EXPEDITURES	FTA/STA/LOCAL AUTORIZED BUDGET	FTA EXPENDITURES	PL FUNDS/LOCAL AUTORIZED BUDGET	FHWA 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	7,864.87	1,597.84	1,142.47	9,401.84	6,722.40
Regional Safety PGM-DC	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
TBD	30,000.00	0.00	4,357.87	0.00	25,642.13	0.00
Subtotal	**252,255.81**	**20,091.56**	**36,643.24**	**2,918.54**	**215,612.57**	**17,173.02**
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	7,971.13	2,178.97	1,157.90	12,821.25	6,813.23
Planning Studies	8,750.00	0.00	1,271.04	0.00	7,478.96	0.00
TBD	133,384.26	61,951.10	19,375.69	8,999.15	114,008.57	52,951.95
Transportation Performance Measures	260,000.00	0.00	37,768.18	0.00	222,231.82	0.00
Subtotal	**457,053.48**	**84,842.83**	**66,392.60**	**12,324.46**	**390,660.88**	**72,518.37**
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	5,888.37	1,452.64	855.36	8,547.51	5,033.01
Program Development & Misc	8,750.00	0.00	1,271.04	0.00	7,478.96	0.00
TBD	6,359.64	1,500.00	923.82	217.89	5,435.82	1,282.11
Transportation/Land Use Connection Program	80,320.00	22,000.00	11,667.46	3,195.77	68,652.54	18,804.23
Travel Demand Modeling	85,079.43	0.00	12,358.83	0.00	72,720.60	0.00
Travel Monitoring	204,999.49	134,081.97	29,778.68	19,477.04	175,220.81	114,604.93
Subtotal	**410,429.71**	**178,390.94**	**59,619.93**	**25,913.46**	**350,809.78**	**152,477.48**
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	18,500.00	125,000.00	18,500.00	0.00	0.00
Subtotal	**167,234.16**	**24,982.74**	**167,234.16**	**24,982.74**	**0.00**	**0.00**
Grand Total	**1,286,973.16**	**308,308.07**	**329,889.93**	**66,139.20**	**957,083.23**	**242,168.87**