FY 2022

National Capital Region Transportation Planning Board

Work Program Progress Report

MARCH 2022

FY 2022

The TPB approved its FY 2022 Unified Planning Work Program (UPWP) in March 2021. The TPB Work Program Progress Report provides a short summary of each activity for the month of March. 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.

1. LONG-RANGE TRANSPORTATION PLANNING

1.1 Visualize 2045 Implementation
1.2 Environmental Justice and Equity
1.3 Future Plan Development
1.4 Federal Compliance
1.5 Policy Board-Directed Activities

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1 Transportation Improvement Program
2.2 TIP Database Support

3. PLANNING ELEMENTS

3.1 Performance-Based Planning and Programming
3.2 Congestion Management Process
3.3 Systems Performance, Operations, and Technology Planning
3.4 Transportation Emergency Preparedness Planning
3.5 Transportation Safety Planning
3.6 Bicycle and Pedestrian Planning
3.7 Regional Public Transportation Planning
3.8 Freight Planning
3.9 Metropolitan Area Transportation Operations Coordination Program Planning

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach
4.2 Communications

5. TRAVEL FORECASTING

5.1 Network Development
5.2 Model Development and Support

6. MOBILE EMISSIONS PLANNING

6.1 Air Quality Conformity
6.2 Mobile Emissions Analysis

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Travel Surveys
7.2 Travel Analysis Studies and Research
7.3 Regional Transportation Data Clearinghouse
7.4 GIS Data and Analysis

8. REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION

9. MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program
9.2 Regional Roadway Safety Program
9.3 Transportation Alternatives Program
9.4 Transportation and Land Use Connection Program

10. TPB MANAGEMENT AND SUPPORT

10.1 TPB Committees Support and Management and UPWP

11. TECHNICAL ASSISTANCE PROGRAM

11.1 DDOT
11.2 MDOT
11.3 VDOT
11.4 Regional Transit Technical Assistance

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM (CASP)

Task 1	BUDGET	Billed this month	% Funds Expended	UPWP Page
LONG RANGE TRANSPORTATION PLANNING	$1,095,434	$97,385	69%	35

1. LONG-RANGE TRANSPORTATION PLANNING

Task 1.1 – Visualize 2045 Implementation

Staff that manages the long-range transportation plan activities continued to work with the public participation team to implement plans for the public comment period on the Air Quality Conformity analysis determination, the TIP and the Plan, as well as virtual forums to present the draft plan. Staff also continued working with the public involvement and GIS team to produce a Story Map about the Voices of the Region outreach and what TPB learned from this outreach.

Staff coordinated the public participation team to produce a series of outreach/communication materials including an approach to leverage the animated videos that were produced in FY 2021 to support awareness and implementation of the Aspirational Initiatives. With consultant support, staff completed the update the infographics and animated video data for consistency with the data in the updated plan. Staff began activities to create an updated Aspirational Initiatives brochure.

Staff coordinated closely with the new TPB Communications Manager to implement a strategic plan for the rollout of the update to Visualize 2045, including producing materials to raise awareness in the region of the April comment period. The approach includes posting in numerous newspapers and sending out postcards across the region, with recipients including areas with historically disadvantaged populations and Voices of the Region participants 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.

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 scheduled a meeting to examine pros/cons and availability of various forms of census data for use in updating the EEAs.

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 discussion related to upcoming COG-led equity training activities.

Task 1.3 – Future Plan Development

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

The staff prepared for the conduct of the public comment period. Staff completed the development of all plan and appendices content for the draft plan, TIP, their appendices and associated documentation Air Quality Conformity determination of the plan and TIP. These materials were posted for release the morning of April 1 for a 30-day comment period. Staff completed a draft Story Map to communicate the Voices of the Region outreach and also produced an interactive map of the proposed projects.

Staff produced a presentation (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 continued the development of a stand-alone Executive Summary for the plan, which will be finalized and made available after the plan is approved.

Staff updated the Visaulize2045.org website as needed to maintain a 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 prepared briefing materials on the financial plan for scheduled April briefings at public outreach sessions, the Technical Committee, and the TPB.

1.4 – Federal Compliance

Staff prepared for the federally required comment period on the draft findings of the Air Quality Conformity determination, and also prepared for comment 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 principal, 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	$64,280	68%	37

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1 Transportation Improvement Program (TIP)

At its meeting on March 4, the TPB Steering Committee reviewed and approved two resolutions to amend the FY 2021-2024 TIP:

- SR13-2022, requested by MDOT to include TIP Action 21-47 which added approximately $7.8 million for preliminary engineering and construction of the I-70 South Mountain Welcome Center Truck Parking project; and
- SR14-2022, requested by the WMATA to include TIP Action 21-48 which updated funding in FY 2023 to match WMATA's FY 2023 Capital Budget, adding a net total of about $85.6million.

Full funding for the MDOT Truck Parking project and all WMATA project groupings was included in the Visualize 2045 financial analysis and all projects and programs are exempt from the air quality conformity requirement.

TPB staff processed six administrative modifications to the FY 2021-2024 TIP for DDOT and one for MDOT which was ultimately withdrawn, under TIP Action 21-46.

During the month of March, TPB staff assisted staff from all implementing member agencies in successfully meeting the March 11 deadline for inputs to the draft FY 2023-2026 TIP, Using those inputs, staff developed the funding tables included in Appendix A, grouped by the three jurisdictional STIPs, and the financial summary, project analysis, and PBPP sections of the main TIP document. Staff also continued to prepare for the Public Forum on the draft TIP.

2.2 TIP Database Support

Contractor EcoInteractive, continued to provide their Software as a Solution platform, customized and branded as the TPB's Project InfoTrak database application, as well as ongoing bug fixes and help desk support for staff and member agency users. Work performed under regular maintenance hours in March included correcting the access granted to FTA user types allowing them to approve TIP amendments using transit funding. Under an expanded contract for professional services, EcoInteractive developed and refined customizations of the software platform, and performed other specialized tasks, including: the final import of all policy question responses that had been collected from implementing agencies in spring of 2021 and compiled in several Excel tables, and an overhaul to the design of the project description reports.

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	$2,768,270	$191,434	56%	39

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

TPB staff briefed the Technical Committee and TPB on the final regional PBPP transit asset management targets and also briefed an update on highway asset and highway system performance vs. targets and work plans for 2022.

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

Staff coordinated with State DOTs in preparation for 2022 PBPP activities, including reports and target-setting.

Staff attended the quarterly VDOT-OIPI-MPO Quarterly meeting.

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 by the end of FY 2022.

The March 17, 2022, virtual meeting of the Vehicle Probe Data Users Group was organized and conducted, discussing MDOT's analysis of truck parking using probe data, and technical challenges in tracking the COVID-19 pandemic's impacts on the region's transportation system.

3.3 Systems Performance, Operations, and Technology Planning

The March 3, 2022, virtual meeting of the Systems Performance, Operations, and Technology Subcommittee was organized and conducted, discussing the findings and next steps following TPB's recent Resiliency Study; an update on Metropolitan Area Transportation Operations Coordination (MATOC) Program operations; and an overview of the military Strategic Highway Network (STRAHNET) system.

3.4 Transportation Emergency Preparedness Planning

The March 9, 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

Staff, in consultation with the Subcommittee Chair, developed the agenda and secured speakers for the regularly scheduled April 12, 2022, meeting of the Transportation Safety Subcommittee.

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

3.6 Bicycle and Pedestrian Planning

The regularly scheduled meeting of the Bicycle and Pedestrian Subcommittee was organized and conducted on March 15, 2022. Agenda items included a briefing from the National Park Service on the progress of their regional trail counting program, a briefing from VDOT on their new Pedestrian Safety Action Plan map, and on regional COG (Council of Governments) growth forecasts. The Subcommittee also received a briefing on the comments provided and revisions made to the Bicycle and Pedestrian Plan since the last meeting.

Staff presented the new draft Bicycle and Pedestrian Plan to the TPB Technical Committee on March 4 and to the Transportation Planning Board on March 16.

On March 17, staff briefed the Capital Trails Coalition Steering Committee on the draft Bicycle and Pedestrian Plan and the proposed schedule to update the National Capital Trail Network.

Staff continued to revise the Bicycle and Pedestrian Plan to reflect comments received.

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee did not meet in March.

Staff worked on the Visualize 2045 long range transportation plan. Staff prepared letters of endorsement for federal grant applications by member jurisdictions. Staff collated responses to a survey questionnaire on transit service and ridership during recovery from the pandemic and updated pandemic-related briefing materials. Staff conducted kick-off meetings with the on-call planning consultant for two tasks: Bus Equity update and State of Public Transportation report.

Staff attended the monthly WMATA JCC meeting.

3.8 Freight Planning

The regularly scheduled March 10, 2022, meeting of the TPB Freight Subcommittee was organized and conducted. The agenda included updates on the freight elements of moveDC, the District of Columbia's Long-Range Transportation Plan and VTRANS, Virginia's Long-Range Transportation Plan.

Staff presented an update of TPB's freight planning activities to the Baltimore Regional Transportation Board (BRTB) Freight Movement Task Force at their March 24 meeting.

Staff held planning sessions on March 9 and March 23 with the TPB Freight Subcommittee Chair to identify topics and speakers for future Freight Subcommittee meetings.

A meeting to review the scope for the Regional Freight Plan update with the on-call consultant was held on March 18, 2022.

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 March 8, 2022, continuing planning and coordination for the region's winter weather response.

A periodic MATOC Information Systems Subcommittee virtual meeting was organized and conducted on March 15, for coordination on technical systems that support MATOC and related operations.

The regularly scheduled March 18 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 March 24, to discuss regional operational and traffic issues, including impacts of COVID-19.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	$994,711	$73,772	53%	45

4. PUBLIC PARTICIPATION

4.1 Public Participation and OutreachThe TPB's Community Advisory Committee (CAC) met on March 10 for an online-only meeting. The committee was briefed on the COG Cooperative Forecasts and plans to raise awareness for the completion of Visualize 2045.

Staff continued planning for public engagement activities related to the finalization of Visualize 2045. These activities were focused around a public comment period that was scheduled to begin on April 1 and end on May 1. Staff also planned two virtual open houses scheduled for the evening of April 6 and noon on April 7. Staff also planned a federally required forum on the Transportation Improvement Program (TIP), which would be 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 and social media, and mailed postcards.

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

An AFA meeting was not held in March. Staff sent out a questionnaire to confirm membership and collect demographic information for Title VI purposes.

4.2 Communications

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

- **Commuter Connections encourages alternative commuting options as more employees return to the office**
  March 16, 2022

- **Officials on COG Board zero in on three opportunities for climate collaboration**
  March 17, 2022

- **New webinar series on integrating climate resiliency into transportation planning, project development, and design**
  March 24, 2022

- **A recap of the March 2022 TPB meeting**
  March 24, 2022

- **Full speed ahead: Bike to Work Day 2022 registration now open**
  March 28, 2022

Staff worked on an audit to comprehensively update pages on the COG website related to transportation. Staff also conducted monthly update activities for the website.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	$3,298,337	$223,542	53%	47

5.1 TRAVEL FORECASTING

5.1 Network Development

For a sensitivity test, staff developed network files reflecting a scenario where only transit projects are built in the future. The network paired 2023 highway conditions with 2045 transit projects. Staff developed a draft internal memo, which should be finalized in April.

Staff have been working on a major update of the COGTools User's Manual. In response to the comments and suggestions received from the latest internal review, staff developed a new version of the User's Manual, dated February 17, but the manual is still undergoing internal review.

Staff is in the process of preparing the Gen2/Ver. 2.4 Model Highway and Transit Networks Report. Specifically, staff documented the development of unified network database in Chapter 4 of this report, which is currently under internal review.

Staff started to work on a memo that documents the development of four time-of-day transit networks (with the additional PM Peak and nighttime periods) in the network database.

Staff investigated an issue related to the formatting of transit line files, text-based files which store transit route information used by the travel demand forecasting model. Specifically, each record or line in the file must be 144 columns or less. Staff will implement a fix either in the network database or in COGTools. This task was put on hold in March due to other work priorities.

5.2 Model Development and Support

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months. At its March 25 meeting, the following two topics were discussed:

- Forecasting Travel Demand for the Baltimore-To-Washington Magnetic Levitation Train Service
- COG/TPB Gen3 Travel Model: Status Report

Production-use, travel demand forecasting model: Generation 2/Ver. 2.3 and Ver. 2.4

Staff is in the process of preparing the Gen2/Ver. 2.4 Travel Model transmittal package, which will be released after the 2022 Update of Visualize 2045 is approved by the TPB in June 2022. In March, staff cleaned up and re-ran the Ver. 2.4 Model used in the Air Quality Conformity (AQC) Analysis of the 2022 Update to Visualize 2045 and the FY 2023-2026 TIP, for seven scenario years (2017, 2021, 2023, 2025, 2030, 2040, and 2045). Staff started to work on the documentation.

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

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. Recently, staff tested the latest ModeChoice Version 7.5.7 software in the TPB Version 2.4 Model and worked with AECOM, the developer of TRANSIMS ModeChoice, to investigate an issue noted in the testing.

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

Staff studied the catalog files and documentation of the Arlington Travel Model, which uses Cube Public Transport (PT) and was received from Bentley. Using this model as an example, staff implemented PT multipathing in both the Gen2/Ver.2.4_PT Model and Gen3 Model. Staff conducted test runs and investigated the effects of migrating from PT single pathing to PT multi-pathing. Staff will complete the implementation of PT multipathing in both models and share the specifications and model summaries with the consultant. Based on the preliminary findings, the Gen3, Phase 2, Model will switch from PT single pathing to multi-pathing and will be re-calibrated using the multi-pathing transit skims.

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:

- Staff held three check-in meeting with RSG and BMG, the consultants on the Gen3 Model development project, on March 3, 17, and 31.
- Staff provided a second review on a draft RSG report on Gen3, Phase 1, Model calibration/validation. Staff sent feedback to RSG on March 14. The report was finalized by RSG on March 31.
- Staff continued to test the Gen3, Phase 1, Model received from RSG on January 8. Specifically,
  - Staff successfully conducted a Gen3 Model test run with memory chunk size training on a cloud server with 192 GB of RAM. Staff conducted additional test runs on the cloud comparing the performance of the old vs. new chunk size specifications. On the other hand, BMG failed to run Gen3 Model with chunking training on their on-premises server.
  - Staff explored the possibility of skipping transit skimming in one or two speed-feedback loop iterations to save model runtime. Specifically, staff examined the change of transit skims by iteration and found that, in most cases, the transit skims stabilized in the first two iterations. Staff plan to conduct a Gen3 Model test run that skips transit skimming in one iteration.
- Using the Gen3, Phase 1, Model, staff conducted sensitivity testing following a plan laid out in August 2021. According to this plan, RSG would conduct two 2018 tests (Increased auto

operating costs; and Increased telecommuting in DC) and COG would conduct one to three tests (Closure of a bridge; Doubled frequencies on high-capacity transit routes; and 50% increases in peak-period tolls). Specifically,

- o Staff conducted model runs for all three sensitivity tests.
- o Staff created model summaries comparing the baseline and alternative scenarios in the three sensitivity tests.
- o Staff documented the three tests in a report on the Gen3 Model, Phase 1, sensitivity testing.
- o Staff performed review on both the RSG sections and the COG sections of the report, which was finalized by RSG on March 31.
- o Staff presented the results and findings from the three COG tests at the March 25 TFS meeting.
- Enhancements and bug fixes related to Gen3 Model:
  - o Staff implemented a bugfix related to zonehwy.net in the Gen3 Model and is in the process of Quality Control/Quality Assurance (QC/QA).
  - o Staff created a batch file to move some output files (.h5 and .rte, iterations 1-3) into a temporary folder, which could be deleted later to save hard drive space. Staff will conduct a test run for QC/QA.
- In the future, when there is time, staff plans to share Gen3 Model, Phase 1 documents on the COG website.

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 four data requests: Requests came from consultants working on the STOPS model development for Montgomery County DOT, on the development of a real-time predictive traffic simulation model for response plan analysis for VDOT, to perform a transportation analysis to support the South Capitol Street Phase 2 Project for DDOT, and for the Falls Church East End Transportation Study. The requested data include:

- The Version 2.4 Travel Model,
- Loaded-link highway network and vehicle trip files from the Version 2.4 Travel Model for year 2021,
- AM Peak Highway Skims, for years 2019 and 2045 from the Version 2.3.78 Travel Model, and
- Transit On-Board Survey (TOBS) data (2008 Metrorail Survey; 2008 Regional Bus Survey, supplemented by the Fairfax Connector Bus Survey; and 2007-2008 On-Board Survey of Maryland Transit Administration Riders).

Staff attended the ActivitySim Monthly Partners-Only Check-In meeting on March 17.

Staff attended Staff Learning Seminars - Equity Emphasis Area-Session 2 on March 18.

Staff attended ActivitySim Consortium meetings regularly on Tuesdays and Thursdays.

Staff tested the new SAS server on the cloud.

Task 6	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	$2,039,172	$194,439	73%	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 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 also continued to conduct a performance analysis of the plan using the measures identified by the Plan Development and Coordination Team. Staff finalized the summary report, continued with development of the full conformity report, and worked with staff from other teams to develop a presentation on the performance of the plan for various committees.

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 sent an inquiry to the state departments of transportation regarding the 2021 Congestion Mitigation and Air Quality (CMAQ) projects submitted to the CMAQ Public Access System to develop regional goals for the CMAQ Performance Plan that is due to be submitted to the federal agencies in October 2022.

In accordance with the TPB consultation procedures, staff forwarded to the consultation agencies and public advisory committees the March 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 and strategies for the on-road transportation sector. TPB members were asked to submit their responses to the survey by April 1. Technical Committee and TPB members were briefed on the logistics of the survey and any comments received to date (items #10 and #5, respectively).

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).

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 have been working closely with DEP staff on update of regional greenhouse gas inventories and coordinating on the planning and technical processes. TPB staff and DEP staff also continued to assist local jurisdictions with climate change planning. TPB staff have also continued to monitor the regional climate change planning activities and attended the Climate, Energy and Environment Policy Committee (CEEPC) meeting to receive updates on recent developments.

Staff developed a joint TPB/MWAQC/CEEPC comment letter on EPA's recently proposed rule regarding control of air pollution and the associated heavy-duty vehicles standards. Staff will share the letter with each committee and seek approval before posting the letter on the federal docket.

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 diverse ways to model criteria pollutant emissions to both maintain consistency with the recently released Version 2.4 Travel Demand Model and to introduce innovative new processes (e.g., machine learning).

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	$2,141,001	$121,134	42%	53

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Travel Surveys

Smartphone Panel Survey

Staff reviewed documentation and data files from the RTS Follow-On Smartphone Panel Survey (SPS) for conducting an evaluation of the effectiveness of the smartphone survey methodology.

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 finalized distributed the TPB Climate Change Mitigation Survey Goals and Strategies Questionnaire to TPB members.

Staff fielded various data requests from stakeholders, including an inquiry about the 1968 HTS and SPS dataset.

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 December 2021 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). Staff made a presentation on EEAs, including the interactive EEA tool, to the COG GIS Committee and NCR GDX Governance Working Group Joint meeting held March 15, 2022.

Other Activities

Staff prepared the slides and coordinated in preparation for the final presentation on the RTS In-Depth Analysis project.

Staff met with a fellow Planning Data and Research team member to discuss the functions of the regional enplanement forecasting workbook.

Staff participated in a meeting to discuss the equity emphasis area methodology and data availability for an update.

Staff met with fellow Planning Data and Research team members to discuss the findings from the Arlington continuous active transportation count data analysis. Staff also discussed the uses of these and other active transportation data in the Covid traffic monitoring analysis and in the RTDC.

Following a February 28th meeting with the National Park Service on their Regional Bike Count project, staff coordinated internally and transmitted a list of questions soliciting more information about the project.

Staff participated in the AMPO Data Working Group Leadership meeting.

7.3 Regional Transportation Data Clearinghouse

Staff refined tables and charts for Performance Based Planning & Programming (PBPP) purposes.

Staff collected and synthesized FY 2020 transit ridership data for the Congestion Management Process (CMP) Technical Report and for inclusion in the RTDC.

Staff responded to a request from the Virginia Department of Transportation (VDOT) Bike/Pedestrian and Park & Ride Lot Coordinator regarding the National Capital Trail Network (NCTN) in ArcGIS Online.

Staff responded to a request from the District Department of Transportation (DDOT) regarding the Equity Emphasis Area (EEA) dataset. Staff referred DDOT staff to the RTDC.

Staff responded to the Office of Communications (OC) regarding a request from a Washington Business Journal reporter requesting shape files of TPB data. Staff directed OC to refer the reporter to the RTDC.

Staff continued to work with fellow staff for identifying recent data received for weekday transit ridership from regional public transportation providers.

Staff corrected some ArcGIS Online content items that had inconsistent permissions that prevented content from being accessible in some of 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 March 15 GIS Committee/GDX Working Group virtual meeting. Highlights of the meeting included: an introduction to the NCR-GDX and demonstration of new GDX tools, a demonstration of COG'S Equity Emphasis Areas uses and tools, and the regular status reports on the NCR-GDX and NextGen 9-1-1,

Staff attended the TPB Bicycle and Pedestrian Subcommittee meeting held on March 15.

Staff attended the TPB Vehicle Probe Data Users Group (VPDUG) Meeting held on March 17.

Staff provided links to the Equity Emphasis Area (EEAs) data to the project manager of the NCR/GDX so that the EEAs could be referenced by the Food Resources tools in the GDX.

Staff moderated a coffee chat online seminar on GIS Infrastructure and Cloud Migration on March 30, presented by the AMPO GIS and Data Visualization Working Group.

Staff completed the first version of the data dashboard application for the TPB Bicycle and Pedestrian Plan for the National Capital Region. Staff gave a brief demonstration of the dashboard at the March 4 TPB Technical Committee meeting. Staff also provided screen shots of the dashboard application to the Systems Performance Planning Director for use in the presentation given to the TPB at its March meeting.

Staff responded to an inquiry from the City of Takoma Park regarding projects in the Bicycle and Pedestrian Plan. Staff provided tabular data to help inform the discussion.

Staff complete the work with fellow DTP staff to reconcile transit projects in the Project InfoTrak (PIT) database against the current dataset managed in GIS.

Staff completed the 'Voices of the Region' story map. Staff met with staff from the Plan Development & Coordination team throughout the month to discuss and finalize the project. Staff also created a content item on the COG website. These materials were shared with the Plan Development & Coordination team to include in the package if information released for the public comment period for Visualize 2045.

Staff completed work on the major projects map for Visualize 2045. Staff created an ArcGIS Online web map and application with the data as well as a content item on the COG website. These materials were shared with the Plan Development & Coordination team to include in the package if information released for the public comment period for Visualize 2045.

Staff completed the Bike to Work Day (BTWD) web map with changes to pit stop locations. The map was operational in time for the March 1 start of registration for BTWD and is being used to inform registrants of the available pit stops. Staff continue to make updates as requested.

Staff worked with fellow staff and TPB's PIT database contractor to identify, report and correct an issue where Some Mapped Projects Not Included in GIS Export.

Staff provided guidance and technical support to the Department of Environmental Programs to identify resources to update a Climate Planning map to be used on the COG webpage.

Staff is 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 as a result of the cloud migration performed which resulted in a loss of access to actively manage resources.

Staff continued to work with COG's Information Technology (IT) staff to implement changes to TPB/COG's GIS hardware and software environment. Staff migrated the ArcGIS license management system to the new COGGIS server and sunset the old hardware. Staff also upgraded ArcGIS Server software environment on the GIS server and web server. Staff worked with IT to identify things which IT needed to address as part of the migration, including the COG-wide legacy SAN storage location that was previously assigned to the old GIS server.

Task 8	BUDGET	Billed this month	% Funds Expended	UPWP Page
REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION	$1,190,179	$105,746	61%	57

8. REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION

8.1 Socioeconomic Forecasting

Planning for Round 10

DCPS staff continued to work on the 2020 Census block to COG TAZ conversion and continued 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 March 2 with the ICF team to discuss the proposed project. 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. TPB and DCPS staff participated in the kick-off meeting for the project on March 21.

DCPS Director briefed the TPB Technical Committee and the TPB on the Round 9.2 Forecasts and plans for Round 10 at their respective March meetings.

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.

Census Bureau staff briefed the Cooperative Forecasting Subcommittee on the Census Pulse Survey as a means for tracking potential local COVID economic and population impacts.

DCPS Director briefed the Montgomery County Council on the Cooperative Forecasts and COVID impacts to the economy at their March 15 meeting

Housing Targets update

Staff received 24 competitive applications for the Housing Affordability Planning Program (HAPP) grants funded by Amazon and is 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.

DCPS Director briefed the Prince William County Planning Commission on the COG Housing Targets at their meeting on March 23.

DCPS Director presented the COG Housing Targets and related efforts at the Fairfax County Housing Symposium on March 17.

The Planning Directors Technical Advisory Committee was briefed on accessory dwelling unit programs by planning staff from Frederick County and Arlington County.

Other

Staff participated in the Transportation Land-Use Connections project selection panel, including scoring applications and participating in two selection panel meetings.

Staff attended the APA Webinar: Collaborative Planning for Climate Resilience.

Staff participated in bi-weekly info-sharing group for Local Technical Assistance Programs.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	$988,671	$27,395	28%	59

9. MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

During the month of March staff worked with the Federal Transit Administration to fine-tune and formally submit the application for projects selected under the 2021 Enhanced Mobility Solicitation.

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 have proposed a mid-May date for the Selection Panel meeting.

Consultant proposals were received for the five TPB-approved projects of the second round (FY 2022) of the RRSP. The proposals were reviewed and scored by the relevant Technical Selection Committees (TSCs). Winning firms will be notified in April 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 bi-weekly progress update meetings and one virtual public meeting in March. The roadway safety team conducted a field visit of the corridor on March 29, 2022.
- MD (Prince George's County - Roadway Safety Audits) - The consultant led roadway safety audit field visits to the Sherriff and Belcrest Road corridors on March 8 and March 22, respectively.
- MD (City of Laurel - Roadway Safety Audit) - City of Laurel staff and the consultant finalized a roadway safety audit (RSA) checklist in preparation for a site visit. The consultant also began its review of crash and signal timing data, turning movement counts, and vehicular/

pedestrian traffic observation summaries for operations at the MD 197 and Bowie Road intersection.

- VA (Arlington County - School Zone Speed Camera Guidelines) - The consultant developed and submitted to Arlington County staff for consideration a draft memo summarizing findings from its peer review of School Zone Speed Camera programs in other jurisdictions. Team stakeholders also met with a panel of local automated traffic enforcement (ATE) program managers to discuss best practices. The consultant team continued to develop implementation guidelines for school zone speed cameras within the County.
- VA (Town of Herndon – Herndon Parkway Complete Streets) - In collaboration with the Town of Herndon staff, the consultant developed preliminary design concepts for several signalized intersections for the Town's review and comment.

9.3 Transportation Alternatives Set-Aside Program

Staff conducted follow-up activities regarding the TPB's approval of Virginia TAP funding in February. Staff also prepared for the upcoming solicitation for TAP applications in Maryland.

9.4 Transportation/Land-Use Connections (TLC) Program

The application period for the FY 2023 round of TLC was open between December 17 and February 22. A total of 20 applications were received. In March, staff conducted research on the applications and conducted site visits. Staff sent relevant information to the TLC Selection Panel and scheduled two meetings for the panel. The panel members reviewed and scored the applications. The panel met on March 24 and 29 and selected 11 projects for funding. The TPB was scheduled to approve them on April 20.

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 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 prepared a draft outline of the final report for review.
- Assessment of Microtransit (District of Columbia) – Consultant delivered updated Task 2 Existing Conditions Memorandum. Consultant began developing service optimization recommendations for Northeast zone in anticipation of March 2022 service change. Consultant developed and delivered service optimization recommendations for Northeast zone in anticipation of March 2022 service change. Consultant developed and delivered draft vehicle requirement estimates and scheduling. Consultant began updates to vehicle estimates and scheduling based on feedback from DFHV. Consultant developed draft presentation for April 2022 focus group.
- Active Transportation Plan near the Huntington Metrorail Stations (Fairfax County) – Draft plans moved toward finalization in March.
- East End Transportation Study (Falls Church) – Consultants finished data collection and developed draft options for potential inclusion in the small area plan update.
- East Street Redesign (Frederick County) – The City formed a stakeholder group based on the applications/interests from the first public information meeting. The first stakeholder meeting was held on March 14.
- Greenbelt Road Corridor Plan (Greenbelt) – The project team completed a site walk of the Greenbelt Road corridor on March 9. The consultant presented preliminary recommendations at a City Council meeting on March 23, and also provided the draft Existing Conditions section of the final report for the City's high-level review. Work on the draft final report is ongoing.

- Connecticut Avenue Corridor Planning (Kensington – Montgomery County) –   A stakeholders meeting was held on January 21st. Short-, mid-, and long-term alternatives were discussed, as well as materials needed for public outreach. 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) – There were some e-mail exchanges between consultant and Montgomery County. On March 9, the consultants sent interim deliverables for review. There has been regular contact between the project team and a meeting to answer questions was held on March 24 that I was not present for.
- The Anacostia Gateway/PG Connector Trail Design Project – The contractor has updated the concept trail alignment and worked with M-NCPPC to select a preferred alignment. The alignment was revised to adjust proposed slopes and confirm ADA compliance while trying to avoid the FEMA and county flood plains as much as possible. The contractor also met with M-NCPPC staff last week to discuss a potential new location for the bridge that might further decrease impacts to the park. After discussing this new option, the contractor will move forward with getting the survey for the finalized alignment.
- Innovation Park Shuttle Service Feasibility Study (Prince William County) – The project team held a check-in conference call on March 3. The consultant completed the second deliverable, a review of shuttle service scenarios. A coordination meeting was held on March 23 to discuss the feasibility of microtransit service. A second coordination meeting was held on March 31 to discuss a proposed microtransit zone and a planned autonomous vehicle shuttle service that would loop from the GMU campus to the proposed Town Center.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB MANAGEMENT AND SUPPORT	$963,379	$52,213	46%	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 March 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 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 March. Telephone / Web Ex / Microsoft Teams Communications:

- Major Metros Roundtable biweekly meeting
- Board Participation Refresher
- CAO's Monthly Meeting
- Q&A with Doug Hooker / Atlanta Regional Council
- DC Planning Funds - S. White /DDOT
- CEA Budget Review
- Capital Region Rail Vision Committee Check-in
- WaPo Interview Prep
- LGW Transportation Day
- Washington Post Interview / K. Shaver
- MPO Initiative
- Staff Seminar – Equity Emphasis
- RFC Planning Call
- State Air Coordination Call
- Climate, Energy & Environment Policy Committee
- RFC Accessibility Planning / P. DesJardin

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	$1,576,979	$41,611	18%	63
District of Columbia	$274,756	$6,083	7%	63
Maryland	$483,305	$790	17%	65
Virginia	$436,679	$34,737	40%	68
Regional Transit	$382,238	$0	2%	71

11. TECHNICAL ASSISTANCE

11.1 District of Columbia

Program Development, Data Requests and Miscellaneous Services

Upon request by DDOT, staff provided travel demand model output for use in the Rock Creek and Potomac Parkway Reversible Lanes Study.

Staff coordinated with VDOT staff to determine level of contributions to the TLC Program for FY 2023.

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 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 projects 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 coordinated with VDOT staff to determine level of contributions to the TLC Program for FY 2023.

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

Traffic Relief Plan (TRP) Project Development Activities

Staff continued to monitor project development activities for MDOT projects related to the Traffic Relief Plan. In response to a request by the I-495 & I-270 Managed Lanes Study team, staff provided information regarding the modeling process for the 2022 Update to Visualize 2045 and potential impacts of the COVID-19 pandemic on the modeling process and assumptions for the future plan updates.

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.

Staff coordinated with VDOT staff to determine level of contributions to the TLC Program for FY 2023.

Staff participated in bi-weekly info-sharing group for Local Technical Assistance Programs.

Travel Monitoring and Survey

Active Transportation Counts

Staff completed the draft of the Spring 2021 Active Transportation report and delivered it and recommended improvements to the active transportation geodatabase design to VDOT for comment. Staff drafted the task order for the spring 2022 active transportation counts and delivered it to the consultant for a price quote. Staff worked with the contractor to resolve the remaining issues with the fall 2021 count data and approved the contractor's invoice for the counts.

I-66 & I-395 Mode Share Study

Staff finalized the data analysis for the VDOT I-66/I-395 mode share study and submitted the draft study memos and transmittal files to NVTC/VDOT for comment. Staff reviewed and approved the contractor's invoice for this project.

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 TLC Program section of this progress report for more details.

<u>Regional Safety Program</u>

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

<u>Program Development</u>

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

<u>Transit Within Reach</u>

The projects are currently underway.

<u>High-Capacity Transit Map</u>

Staff coordinated internally to discuss criteria used to define HCTs in the region.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

<u>Continuous Air System Planning Program Management</u>

Staff reviewed the documents providing background and context for the Washington-Baltimore Regional Air Passenger Survey (APS) and the CASP program.

Staff updated the enplanement spreadsheet maintained for the CASP program.

The Aviation Technical Subcommittee met on March 24th. The meeting was focused on reviewing the draft scope of work outline and schedule for the 2022 Washington-Baltimore Regional Air Passenger Survey.

Staff prepared and distributed highlights from the January 27 Aviation Technical Subcommittee meeting.

Staff coordinated with FAA and prepared the AIP grant application. As part of this process, the COG Board of Directors, at its March meeting, adopted a resolution authorizing the executive director to submit a grant application and receive corresponding grant funds. Funding from the FAA will support ground access planning activities carried out in the CASP program.

<u>Air Passenger Survey (APS)</u>

Staff began drafting the 2022 APS scope of work.

Staff reviewed the SAS programs and investigated the sampling process developed for the 2019 APS in preparation for the 2022 APS. Staff revised the 2019 APS Sampling documentation. taff updated the 2019 APS master data table and data dictionary. Staff updated the 2019 APS Geographic Findings Report to incorporate the findings from the anomaly investigation for air passenger mode of access originations from King George County, VA.

<u>Air Cargo Element Update</u>

No Activity.

<u>Ground Access Travel Time Study</u>

No Activity.

<u>Ground Access Forecast and Element Update</u>

No Activity.

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 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.
- Maintenance, support for and development of currently adopted travel models, including inputs, application files, and documentation.
    - Travel Forecasting Subcommittee: Staff has conducted meetings in July, September, November, January, and March.
    - 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 March, staff serviced four data requests (total of 28 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, is currently expected in late Feb. 2022 (FY 22).
        - Staff continues to manage consultant (RSG) developing the Gen3 Model.
        - Staff reviewed and provided feedback on consultant deliverables.
        - Gen3, Phase 1 Model has been estimated, calibrated, validated and delivered to COG staff for testing purposes. Documentation is in progress.
    - Gen3, Phase 2 Model: Expected to be a production-use travel model that could be used for regional planning work. Model is expected in summer 2023 (i.e., late FY 23 or early FY 24). Work is being conducted under Task Order 4.

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.
    - 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.
    - 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
  - o 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.
  - o National Capital Region Transportation Planning Board. Climate Change Mitigation Goals and Strategies Questionnaire. Interview by TPB staff, February 28, 2022.
  - o 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.

- o Srikanth, Kanathur (Kanti). Memorandum to National Capital Region Transportation Planning Board. "TPB Climate Change Mitigation Survey – Update." Memorandum, March 10, 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.
  - 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 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)
  - o Developed memorandum: Morrow, Erin. "Transportation and Climate Initiative (TCI): Model Rule, Summary of Public Input, and Additional Draft Documents Released." 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 underway.
- COVID-19 Pandemic Travel Behavior Survey Literature Review (June 2022)
  - o Data collection underway

Travel Analysis Studies and Research

- 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)
  - Future snapshots anticipated and under development

Task 8. Regional Land Use and Transportation Planning Coordination

Socioeconomic Forecasting

- Baseline Employment Guidance (June 2022)
  - Work to begin in Spring 2022
- Travel Model Employment Definition Adjustment Factors (June 2022)
  - 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)
  - Complete
- Multifamily Housing Report (June 2022)
  - Complete
- Commercial Construction Indicators Report (June 2022)
  - Work to begin later in the fiscal 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 2022 update of the Coordinated Plan is in process and will occur throughout the calendar year.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

- Ground Access Travel Time Update (June 2022)
  - Work to commence later this year
- Ground Access Forecast Update (June 2022)
  - Work to commence later this year

	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	1,095,435.13	759,946.56	97,385.24	69%
Subtotal	**1,095,435.13**	**759,946.56**	**97,385.24**	**69%**
2. Transportation Improvement Program				
Transportation Improvement Program	266,963.20	171,640.94	24,374.57	64%
TIP Database Support	200,000.00	144,723	39,906	72%
Subtotal	**466,963.20**	**316,363.94**	**64,280.57**	**68%**
3. Planning Elements				
Congestion Management Process	434,253.21	272,559.15	35,081.23	63%
Systems Performance, Ops & Tech Planning	632,941.76	295,661.61	35,520.06	47%
Transportation Emergency Preparedness Planning	128,257.20	73,008.8	12,049.59	57%
Transportation Safety Planning	311,703.59	173,678.43	22,207.46	56%
Bicycle & Pedestrian Planning	168,032.40	128,174.43	19,681.09	76%
Regional Public Transportation Planning	391,160.06	150,252.49	10,206.5	38%
Freight Planning	318,664.86	160,666.51	20,784.97	50%
Metropolitan Area Transportation Operation Coord Program Planning	170,787.19	111,911.32	15,329.81	66%
Performance-Based Planning & Programming	212,468.43	181,964.51	20,573.44	86%
Subtotal	**2,768,268.70**	**1,547,877.25**	**191,434.15**	**56%**
4. Public Participation				
Public Participation	994,710.64	523,994.36	73,772.67	53%
Subtotal	**994,710.64**	**523,994.36**	**73,772.67**	**53%**
5. Travel Forecasting				
Software Support	226,785.46	118,275.76	13,549.85	52%
Network Development	1,012,945.63	676,712.02	89,867.31	67%
Model Development	2,058,605.72	953,452.26	120,125.27	46%
Subtotal	**3,298,336.81**	**1,748,440.04**	**223,542.43**	**53%**
6. Mobile Emissions Planning				
Air Quality Conformity	922,930.14	681,477.28	91,035.27	74%
Mobile Emissions Analysis	1,116,241.77	815,226.4	103,404.35	73%
Subtotal	**2,039,171.91**	**1,496,703.68**	**194,439.62**	**73%**
7. Travel Monitoring and Data Programs				
Regional Travel Survey	326,936.32	185,417.27	22,470.44	57%
Traffic Analysis & Research	841,214.05	141,667.48	17,822.57	17%
Regional Transportation Data Clearinghouse	324,078.11	153,774.57	19,128.56	47%
GIS Analysis	648,770.77	426,368.96	61,713.26	66%
Subtotal	**2,140,999.25**	**907,228.28**	**121,134.83**	**42%**
8. Planning Scenarios and Socioeconomic Forecasting				
Socioeconomic Forecasting	1,190,180.11	731,909.18	105,746.17	61%
Subtotal	**1,190,180.11**	**731,909.18**	**105,746.17**	**61%**
9. Mobility and Enhancement Programs				
Transportation and Land Use Connections Program	412,200.72	157,093.67	10,642.44	38%
Enhanced Mobility Grant Program	98,545.26	72,903.74	10,773.28	74%
Transportation Alternatives Set-Aside Programs	38,158.07	19,018.81	1,552.25	50%
Other Tasks to be defined 9.5	439,766.10	30,750.38	4,427.91	7%
Subtotal	**988,670.15**	**279,766.6**	**27,395.88**	**28%**
10. TPB Support and Management				
TPB Support and Management	963,378.33	438,863.04	52,213.89	46%
Subtotal	**963,378.33**	**438,863.04**	**52,213.89**	**46%**
Core Program	**15,946,114.23**	**8,751,092.93**	**1,151,345.45**	**55%**
A. District of Columbia Technical Assistance				
Program Development & Misc.	274,755.81	19,432.92	6,083.6	7%
B. Maryland Technical Assistance				
Program Development & Misc.	483,303.48	84,184.19	790.33	17%
C. Virginia Technical Assistance				
Program Development & Misc.	436,679.71	176,453.75	34,737.41	40%
D. Public Transit Technical Assistance				
Program Development & Misc.	382,237.46	6,351.02	0	2%
Technical Assistance	**1,576,976.46**	**286,421.88**	**41,611.34**	**18%**
TPB Grand Total	**17,523,090.69**	**9,037,514.81**	**1,192,956.79**	**52%**

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

	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	53.07	53.07	7,406.93	7,407.23
Pgm Development & Misc	10,999.68	7,206.23	78.25	51.26	10,921.43	7,154.97
Regional Safety PGM-DC	30,000.00	0.00	213.41	0.00	29,786.59	0.00
TBD	196,296.13	4,766.39	1,396.40	33.91	194,899.73	4,732.48
TBD	30,000.00	0.00	213.41	0.00	29,786.59	0.00
Subtotal	**274,755.81**	**19,432.92**	**1,954.54**	**138.24**	**272,801.27**	**19,294.68**
B. MD Technical Assistant						
Climate Chg Mit Study -MD	14,921.00	14,920.60	106.14	106.14	14,814.86	14,814.46
Feasibility/Special Studi	24,998.00	0.00	177.83	0.00	24,820.17	0.00
Program Development & Misc	15,000.22	7,312.49	106.71	52.02	14,893.51	7,260.47
Planning Studies	35,000.00	0.00	248.98	0.00	34,751.02	0.00
TBD	133,384.26	61,951.10	948.86	440.70	132,435.40	61,510.40
Transportation Performance Measures	260,000.00	0.00	1,849.57	0.00	258,150.43	0.00
Subtotal	**483,303.48**	**84,184.19**	**3,438.09**	**598.86**	**479,865.39**	**83,585.33**
C. VA Technical Assistant						
Big Data Study-VA	14,921.00	14,920.60	106.14	106.14	14,814.86	14,814.46
MARC - VRE Runthrough - VA	10,000.15	5,361.46	71.14	38.14	9,929.01	5,323.32
Program Development & Misc	35,000.00	0.00	248.98	0.00	34,751.02	0.00
TBD	6,359.64	1,500.00	45.24	10.67	6,314.40	1,489.33
Transportation/Land Use Connection Program	80,320.00	22,000.00	571.37	156.50	79,748.63	21,843.50
Travel Demand Modeling	85,079.43	0.00	605.23	0.00	84,474.20	0.00
Travel Monitoring	204,999.49	132,671.69	1,458.31	943.79	203,541.18	131,727.90
Subtotal	**436,679.71**	**176,453.75**	**3,106.42**	**1,255.24**	**433,573.29**	**175,198.51**
D. WMATA						
Program Development & Misc	5,000.07	6,351.02	5,000.07	6,351.02	0.00	0.00
Regional HCT Graphic/Map	56,630.00	0.00	56,630.00	0.00	0.00	0.00
TBD	70,607.39	0.00	70,607.39	0.00	0.00	0.00
Transit Within Reach Soli	250,000.00	0.00	250,000.00	0.00	0.00	0.00
Subtotal	**382,237.46**	**6,351.02**	**382,237.46**	**6,351.02**	**0.00**	**0.00**
Grand Total	**1,576,976.46**	**286,421.88**	**390,736.51**	**8,343.37**	**1,186,239.95**	**278,078.51**