FY 2022

National Capital Region
Transportation Planning Board

Work Program Progress Report
June 2022

FY 2022 End of Year Accomplishments

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 brief 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	$1,045,435	$118,863	99%	35

1. LONG-RANGE TRANSPORTATION PLANNING

Task 1.1 – Visualize 2045 Implementation

Staff finalized the updated Aspirational Initiatives booklet.

Task 1.2 – Environmental Justice and Equity

Staff completed the update its Equity Emphasis Areas used to support the EJ analysis of the plan, using 2016-2020 ACS data. Staff documented and conducted internal meetings to discuss preliminary findings/mapping related to the update. Staff produced a memorandum and presentation on the updated EEAs that staff will present to the TPB and its Technical Committee in July.

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

Task 1.3 – Future Plan Development

Staff supported approval of the financial plan of the Visualize 2045 long-range transportation plan.

In June 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 finalized the plan, TIP and AQC documentation as well as the self-certification document, and presented them to the board for approval. The board approved the documents at its June 2022 meeting. Staff took steps to prepare the AQC documentation for delivery to federal partners.

As the board approved greenhouse gas reduction targets at its June meeting, staff worked with the graphic design team to update the 'placeholder' page 133 of the document to present the goals and strategies that the board approved. Staff continued to work on an Executive Summary of the plan.

TPB staff coordinated to plan for the public participation evaluation to be conducted in fall 2022.

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 online seminar series on resiliency planning for the TPB region.

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

Staff began developing a work program and staffing plan for FY 2023. In accordance with the July 2021 board resolution R19-2021, staff developed scope of work options for preparing a for a 2024 update of Visualize 2045.

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.

FY 2022 Accomplishments

- Staff prepared the draft update to the long-range transportation plan, Visualize 2045, its appendices, website, update infographics, animated videos, and interactive maps. Staff coordinated across the MPO to support the development of the FY23-FY26 TIP. Staff developed the plan in a manner consistent with all federal requirements and in a manner responsive to regional priorities, including applying an equity lens to all processes and products.
- Staff conducted a forecast performance analysis of the regional plan.
- Staff coordinated to conduct and document a 30-day comment period on the plan and TIP and their corresponding air quality conformity analysis.
- The TPB approved the plan, TIP, their conformity determination, and the MPO's self-certification document, June 15, 2022.
- Staff completed and documented as reports, a story map, and within the plan the substantial public participation efforts known as Voices of the Region.
- Staff update Equity Emphasis Areas that will be used for the environmental justice analysis of Visualize 2045.
- Staff documented the findings of the TPB climate change mitigation and resiliency studies and drafted CAV principles, and reflected board action on these topics in the plan.
- Staff responded to policy-board directed activities by conducting a scenario analysis to examine what it would take to meet the COG Climate and Energy Action Plan greenhouse gas reductions goals (endorsed by the board). Staff coordinated to support policy board conversations that led to the adoption of voluntary transportation specific on-road GHG reduction goals.
- Staff examined technical implications for the next plan update, such as state SIP submission schedules and the setting of mobile vehicle emissions budgets, the requirement to use MOVES3, plan horizon requirements, and data needs for the next plan update.

Task 2	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRANSPORTATION IMPROVEMENT PROGRAM	$466,962	$34,973	88%	37

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1– Transportation Improvement Program (TIP)

Staff worked with member implementing agencies to make updates and corrections to the FY 2023-2026 TIP following the public comment and interagency review period. The TPB approved the new TIP at its meeting on June 15, 2022.

FY 2022 Accomplishments

- The TPB Steering Committee approved seven resolutions in FY 2022 approving amendments to 22 projects in the FY 2021=2024 TIP.
- Staff approved administrative modifications to 179 projects.
- The FY 2021 report of Transportation Projects with Federal Funding Obligations in the National Capital Region was published in December 2021.
- The 2023-2026 TIP was approved in June 2022.

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 June included: making updates to some funding source names and abbreviations, adding new sources defined under the BIL/IIJA legislation, and changing the label of an ID on the conformity data.

Under an expanded contract for professional services, EcoInteractive developed and refined customizations of the software platform, and performed other specialized tasks, including revising the column arrangement on the conformity report and adding a 4-year total column to the Project Overview reports.

FY 2022 Accomplishments

- Consultant EcoInteractive successfully completed the third year of their contract.
- Work performed in FY 2022 under the basic contract included 120 hours of providing help desk service to staff and users from member agencies, as well as regular maintenance support and bug fixes.
- Work performed under the expanded contract for professional services included 80 additional hours dedicated to multiple customizations and improvements to the Project InfoTrak system requested by staff. All requested customizations were successfully implemented by the contractor.
- A new contract was established and signed with the contractor to extend their provision of the Software as a Solution platform for an additional three years with two options to extend for one year each.

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	$2,718,268	$312,081	80%	39

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

Staff supported approval of the of the Visualize 2045 long range plan. Staff briefed the Technical Committee and the TPB on the final proposed targets for the three PBPP CMAQ Program performance measures, following which the TPB formally adopted new quadrennial targets. Staff completed a final report on the development of the CMAQ Program targets and formally transmitted the board resolution adopting the targets and the report to the three state DOTs.

Staff attended the OIPI-VDOT-DRPT-MPO Quarterly Coordination/Annual Planning and Programming Meeting.

FY 2022 Accomplishments

- The TPB adopted the annual transit safety targets in November 2021 and the annual round highway safety targets in January 2022. The TPB also adopted the quadrennial CMAQ Program targets in June 2022. Staff developed resolutions, reports, and presentations for the TPB for board approval of PBPP targets.
- Staff prepared briefings, updated the Technical Committee, and coordinated with state DOT and other MPO stakeholders on the PBPP performance and targets.
- Staff authored the required System Performance Report on PBPP as Appendix D of the 2022 version of the Visualize 2045 long range transportation plan as well as sections in the primary plan document. Staff also authored PBPP sections for the FY 2023-2026 TIP.
- Staff participated in federal webinars and other professional events on PBPP, including a FHWA/FTA Peer Exchange for multi-state MPOs.

3.2 Congestion Management Process

The final draft 2022 Congestion Management Process (CMP) Technical Report was prepared for final review and acceptance by the TPB Technical Committee at the committee's July 8, 2022 meeting (early FY 2023).

The quarterly meeting of the Vehicle Probe Data Users Group was organized and conducted on June 16, discussing a new Maryland traffic signal analytics tool, and tips and lessons from TPB staff learned from recent use of Probe Data Analytics Suite tools and data.Staff continued CMP data compilation and analysis for upcoming Quarterly Reports.

FY2022 Accomplishments

- The 2022 CMP Technical Report was developed and provided in final draft form for acceptance by the TPB Technical Committee at its July 8, 2022, meeting (early FY 2023).
- Regional congestion management website content was maintained, with regional congestion summaries published.
- CMP briefings were provided to the Systems Performance, Operations, and Technology Subcommittee.
- Four (quarterly) meetings of the Vehicle Probe Data Users Group were organized and conducted, serving as collaboration and information sharing opportunities for member agencies and staff regarding transportation systems usage data sources.

3.3 Systems Performance, Operations, and Technology Planning

Staff initiated and distributed a questionnaire to Systems Performance, Operations, and Technology Subcommittee member agency participants on transportation operations technology being deployed by member agencies, to help plan for future subcommittee discussions and activities. The questionnaire was to be completed and results analyzed in early FY 2023.

Staff undertook outreach to key stakeholders to confirm that no changes were requested in FY 2022 to the Metropolitan Washington Regional Intelligent Transportation Systems Architecture (MWRITSA). The most recent MWRITSA version, posted on the TPB website in July 2019, remained current as of June 2022.

FY2022 Accomplishments

- Five (5) meetings of the Systems Performance, Operations, and Technology Subcommittee (SPOTS) were organized and conducted during FY2022, including preparation of agendas, meeting summaries, and informational materials, providing opportunities for coordination and information exchange.
- In conjunction with Task 1.3 (Future Plan Development), three (3) of four webinars of the 2022 Transportation Resiliency Webinar Series were organized and conducted during FY 2022 (the fourth was to be held in early FY 2023). The webinar series aimed to bolster capacity by providing an introductory webinar on how resilience is approached in the region, along with three in-depth webinars focusing on planning for and technical application of climate integration into vulnerability assessments, resilience planning, and project development and design.
- The Metropolitan Washington Regional Intelligent Transportation Systems Architecture (MWRITSA) was maintained on the TPB website.

3.4 Transportation Emergency Preparedness Planning

The June 8, 2022, 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.

FY2022 Accomplishments

- Eleven (11) meetings of the Transportation Emergency Preparedness Committee were organized and conducted during FY2022, including preparation of agendas, meeting summaries, and tracking of action items. Supporting and informational materials were developed.
- The Committee discussed transportation agency activities regarding COVID-19 response and recovery.
- Follow-ups to the 2018 COG Traffic Incident Management Enhancement (TIME) Initiative were coordinated with the Transportation Emergency Preparedness Committee, with an emphasis on aspects of transportation/public safety incident coordination.
- Transportation emergency preparedness planning coordination with public safety committees and programs was maintained.

3.5 Transportation Safety Planning

Staff, in coordination with the Subcommittee Chair, organized and conducted the regularly scheduled June 14, 2022, meeting of the TPB Transportation Safety Subcommittee. The agenda

included a briefing on NHTSA's newest edition of *Countermeasures That Work*, a briefing on Visualize 2045, and a briefing on the Regional Roadway Safety Program.

Staff held planning sessions on June 10 and June 28 with the Transportation Safety Subcommittee Chair to identify topics and speakers for future Safety Subcommittee meetings.

FY2022 Accomplishments

- The Transportation Safety Subcommittee meets six times a year. Vanessa Holt of the Fairfax County DOT was chair of the Subcommittee. Staff coordinated with Chair Holt to identify speakers, develop meeting materials, and facilitate each meeting.
- The final report of the Regional Roadway Safety Study, including an analysis according to TPB's Equity Emphasis Areas, was published in July 2021, culminating work undertaken in FY 2020 and FY 2021.
- Staff worked throughout the year to communicate the findings of the Regional Roadway Safety study with the TPB, the Technical Committee, the Transportation Safety Subcommittee, the Bicycle and Pedestrian Subcommittee, and the Community Advisory Committee.
- Staff led the effort to establish this year's federally required PBPP regional highway safety targets. The TPB adopted these targets in January 2022.
- Advice and guidance were provided to the Regional Roadway Safety Program (Task 9.2), which was successfully accomplished.

3.6 Bicycle and Pedestrian Planning

Following the TPB's May 18, 2022, approval, the 2002 Update of the Bicycle and Pedestrian Plan for the National Capital Region was published on the TPB website, with associated updated information on the overall Bicycle and Pedestrian Planning Program.

A Shared Micromobility Webinar/Forum was organized and conducted on June 23, the latest in a series of forums bringing together member jurisdictions involved planning and management for shared micromobility systems.

FY2022 Accomplishments

- The 2022 Update of the Bicycle and Pedestrian Plan for the National Capital Region was developed, approved by the TPB in May 2022, and published, succeeding the 2015 plan. The updated plan included an upgraded database of planned bicycle and pedestrian projects in the region in conjunction with the Transportation Improvement Program Project InfoTrak.
- Five (5) meetings of the Bicycle and Pedestrian Subcommittee were organized and conducted, fostering information exchange on a range of best practices in bicycle and pedestrian planning among TPB member jurisdictions and subject matter experts.
- Bicycle and pedestrian planning technical advice was provided for the Street Smart regional pedestrian and bicyclist safety campaigns.
- Police and planners from around the region discussed pedestrian enforcement programs at a Best Practices in Pedestrian Enforcement virtual workshop held on November 9, 2021.
- A Shared Micromobility workshop/webinar was organized and conducted on June 23, 2022. Workshop attendees included representatives from jurisdictions with active programs, discussion management, operational, and user/public issues.

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee met on June 28. The agenda included a presentation on DDOT's Georgia Avenue Bus Priority Project and staff presentations on the 2021 state of public transportation report and the 2022 update of the bus transit equity analysis.

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

Staff attended the monthly WMATA JCC meeting.

FY2022 Accomplishments

- The Regional Public Transportation Subcommittee (RPTS) met eight times in the year. Staff conducted meeting planning and facilitation.
- Staff authored public transportation sections for the 2022 version of the Visualize 2045 long range transportation plan as well as a new appendix summarizing transit development plans (TDPs) in the region.
- In response to the coronavirus pandemic, staff participated in MATOC Transit Task Force virtual meetings. Throughout the fiscal year, staff conducted surveys to collect information on ridership, service levels, and health protocols, the results of which were included in various briefings to multiple audiences.
- On-call consultants delivered two studies during the year, the 2021 state of public transportation report and an update of the previous year's Bus Transit Equity analysis, with staff preparing scopes of work, contract administration, reviewing deliverables, and providing briefings on the results.
- Staff attended monthly WMATA JCC meetings and other WMATA meetings, including the Blue Orange Silver study and the annual bus workshop. Staff also participated in transit planning meetings of the three states and attended federal webinars and other professional events on transit planning and performance.
- Staff completed the 2020 State of Public Transportation report, collecting data and preparing all information, and began the 2021 report, which was completed with consultant assistance.
- Staff prepared multiple TPB endorsement letters for federal transit grant applications by member jurisdictions and agencies.
- Staff provided updates on electric transit buses in the region and assisted member agency presentations on transit issues to the TPB Technical Committee, including on the Long Bridge project and on the MARC Brunswick study.

3.8. Freight Planning

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

Staff held planning sessions on June 1, June 15, and June 29 with the TPB Freight Subcommittee Chair to identify topics and speakers for future Freight Subcommittee meetings.

For the National Capital Region Freight Plan Update (the Plan), Staff provided comments on an initial outline of the Plan and worked with the consultant team to execute a stakeholder survey to identify regional freight-related planning documents and studies. Staff participated in a project update meeting with the consultant team on June 23.

FY2022 Accomplishments

- The Freight Subcommittee met five times in the year. Laura MacNeil of the District Department of Transportation was chair of the Subcommittee. Staff coordinated with Chair MacNeil to identify speakers, develop meeting materials, and facilitate each of the meetings.
- The on-call consultant team was engaged and began a major update of the National Capital Region Freight Plan, updating the 2016 plan, to be completed in FY 2023.

3.9 Metropolitan Area Transportation Operations Coordination Program Planning

During the June 2022 reporting period, COG staff prepared for and participated in the following meetings/events:

- A periodic MATOC Information Systems Subcommittee virtual meeting was organized and conducted on June 7, for coordination on technical systems that support MATOC and related operations.
- The regularly scheduled June 24 meeting of the MATOC Steering Committee was organized and conducted as an in-person meeting (with a virtual remote option) at the MATOC offices in College Park, Maryland, discussing communications, coordination, and Traffic Incident Management topics, as well as impacts of COVID-19.

FY2022 Accomplishments:

- COG staff support was provided for eight (8) virtual meetings and one (1) in-person meeting of the MATOC Steering Committee during FY 2022, including preparation of agendas, meeting summaries, and tracking of action items, helping the MATOC Steering Committee in its effective oversight of MATOC activities.
- COG staff input and advice was provided via participation in approximately 25 virtual meetings or conference calls of MATOC's subcommittees and working groups during FY 2022, including on operations, transit, information systems, and severe weather, covering routine business, as well as response to and recovery from transportation impacts of the COVID-19 pandemic, and special event/major incident impacts.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	$929,710	$63,312	76%	45

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

The TPB Community Advisory Committee (CAC) met on June 9 for an online-only meeting. The committee discussed the finalization of the Visualize 2045 long-range plan update, public engagement for the plan update, and an upcoming joint meeting in July between the members of the TPB and CAC.

Staff finalized public engagement input for Visualize 2045, which was approved by the TPB at its June meeting. Public input was integrated into the final plan document and was summarized in greater detail in plan appendices.

Staff began preparing for an evaluation of public involvement activities, which will be conducted by a consultant in the fall. This evaluation will be timely because it will follow up on two years of outreach for the plan update and it will precede the federal certification review of the TPB's planning process, which is expected in early 2023.

FY2022 Accomplishments

Staff accomplished activities described for this task in the UPWP. Highlights related to the Visualize 2045 update included:

- A campaign of open public engagement, called Aspirations to Implementation, was conducted in the summer of 2021. Previous engagements (opinion survey and focus groups) were invitation-only, focusing on public opinion research. For this open phase of engagement, more than 40 posters and signs were installed around the region. These signs display QR codes, which will solicit input on the TPB's Aspirational Initiatives. This outreach activity was specifically designed with continuing COVID restrictions in mind. More than 400 responses were received. Staff analyzed this feedback using software designed for qualitative research. The results and findings were compiled and presented to TPB stakeholders in the fall of 2021 and were included in the Visualize 2045 update.
- In the summer and fall of 2021, staff analyzed input from a series of 11 focus groups that were conducted in half of 2021. The sessions, which focused on equity, safety and climate change, provided qualitative input for the update of Visualize 2045. Participants for the sessions were grouped by geographic and demographic categories, including residents who are low-income, racially and ethnically diverse, people with disabilities, older adults. One session was conducted in Spanish. Staff analyzed the input received using software designed for qualitative research. The results and findings were compiled and presented to TPB stakeholders in the fall of 2021 and were included in the Visualize 2045 update.
- Staff continued 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.
- Staff conducted public engagement activities related to the finalization of Visualize 2045. These activities included virtual open houses and a public comment period, as well as the federally required forum on the Transportation Improvement Program (TIP). The virtual open houses were held on the evening of April 6 and noon on April 7. The TIP forum was held on April 14.
- Staff concluded public engagement activities related to the finalization of. A public comment period for the finalization of the Visualize 2045 update was conducted between April 1 and May 1. Staff used a variety of communications to advertise the comment period and various events, including newspaper advertisements, emails, and social media, and mailed postcards. In May, staff summarized the comments received, which were presented to the board grouped into themes.
- The final Visualize 2045 document, approved by the TPB in June 2022, integrated themes and quotes that resulted from the multi-faceted outreach activities conducted over the plan's two-year development. The plan documentation included two appendices that detailed public outreach activities.

Continuing activities, as laid out in the UPWP, included the following:

- Support for the Citizens Advisory Committee.
- Support for the Access for All Advisory Committee.
- Ensuring the public involvement opportunities specified in the TPB's Participation Plan are met, such as conducting public comment periods on key documents and public comments periods at the beginning of each TPB meeting.

4.2 Communications

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

- **TPB approves update to Visualize 2045 long-range transportation plan**
  June 15, 2022

- **TPB awards funding to four local projects to help improve roadway safety**
  June 16, 2022

- **Podcast: The Future of Transit**
  June 16, 2022

- **Commuter Connections offers relief from high gas prices**
  June 23, 2022

- **Visualize 2045 Update: Plan Development to Plan Approval**
  June 28, 2022

- **Commuter Connections awards employers for innovation and excellence in commuter benefits programs**
  June 28, 2022

- **June 2022 TPB meeting recap: Plan update, new climate goals approved**
  June 29, 2022

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

FY2022 Accomplishments

Staff accomplished key activities identified in the UPWP. The TPB News was produced on a regular basis, along with news releases and articles on the COG website. A total of 55 stories and news releases were published during the fiscal year on a variety of topics, including safety, commuting, walking, and biking, equity, and reactions to the pandemic. Staff also kept the TPB webpages up to date, ensuring the site is timely, thorough, and user-friendly. And on a regular basis, but particularly related to TPB meeting activities, staff used social media and other digital tools effectively to engage the public.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	$2,766,336	$291,182	87%	47

5.1 TRAVEL FORECASTING

5.1 Network Development

Staff completed the update of the coding of Alexandria's West End Transitway so that it would be consistent with other Bus Rapid Transit service in the region. This work included adding specific "stations" for the routes, along with appropriate connections for bus and pedestrians, as well as changing the network mode code in the regional network database.

Staff continued with network clean-up including making a correction to the number of lanes on Connecticut Ave. in the network database.

Network development staff attended a Git and GitHub introductory training session to learn about methods for using version control to manage network and modeling files.

Staff reviewed and finalized Ver. 2.4 Model Highway and Transit Networks report, dated June 15, which is included as part of the Ver. 2.4 Model Transmittal Package.

Staff developed a new Station Management module in the COGTools that enables users to update the station table in the network database through the GUI. Staff shared the tool within the team for internal testing. Staff also documented this developmental work in a draft memorandum dated June 3. Review of the memo is on hold until the testing is completed.

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

Staff started to update the drop-down menu for transit agencies in COGTools which will enable users to add new transit agencies during transit editing sessions. This work is expected to be done in July.

FY 2022 Accomplishments

- Staff completed the air quality conformity project input tables, listing all highway and transit projects that are included in the regional networks associated with the air quality conformity analysis of the 2022 update to Visualize 2045.
- Staff completed the 2019 transit network files for use as the base year for the air quality conformity analysis of the 2022 update to Visualize 2045.
- Staff updated the bus fare matrix and toll inputs, which had been developed in FY 2021, to reflect July 2021 MARC fare increases and April 2021 Dulles Greenway toll increases.
- Staff developed and quality assured highway and transit networks in the Gen2/Version 2.4 Travel Model format for the following years for the air quality conformity analysis of Visualize 2045: 2021, 2023, 2025, 2030, 2040, and 2045.
- In support of developing the TPB's next-generation, activity-based travel model – the Gen3 Travel Model -- staff developed 2018 and 2045 highway and transit networks for Phase 1 sensitivity testing. This work involved coding transit networks with four time-of-day periods (AM peak, midday, PM peak, and nighttime), which contrasts with the current practice of coding transit networks that reflect only two time-of-day periods (peak and off-peak).
- Staff coded 2017 and 2020 highway and transit networks for the purpose of providing on-road mobile emissions inventories for State Implementation Plan (SIP) work associated with the 2015 Ozone National Ambient Air Quality Standards (NAAQS) as well as for work associated with Greenhouse Gas (GHG) analyses.
- Staff responded to several data requests relating to network coding. These included an inquiry from a consultant about the Dulles Toll Road collector-distributer roads, a query from the Virginia Department of Transportation (VDOT) about the Maryland Beltway Express Lanes project, and a review of network connections in the Leesburg area.
- Staff developed several networks for doing sensitivity testing of various combinations of highway and transit scenarios.
- Staff reviewed projects throughout the fiscal year to determine if those projects were considered "regionally significant" for the purposes of air quality conformity.
- Staff updated the coding of Alexandria's West End Transitway to be consistent with other Bus Rapid Transit service in the region. This work included adding specific "stations" for the routes, along with appropriate connections for bus and pedestrians, as well as changing the network mode code in the regional network database.

- Throughout FY 22, network staff continued to improve the Unified Geodatabase (UGDB) and the associated COGTools that staff developed in FY 21 to support transportation networks in both Cube TRNBUILD and Cube Public Transport (PT) formats. Staff implemented a series of new features, enhancements of existing features, and bugfixes in the unified geodatabase/tool.
- In FY 22, staff used the UGDB/COGTools to support the Air Quality Conformity (AQC) analysis of the 2022 update of Visualize 2045. The TPB approved the 2022 Update of the Long-Range Transportation Plan (LRTP) on June 15, 2022, which marked the first production use of the unified geodatabase/tool.
- In FY 22, staff completed the first major update to the COGTools User's Guide since 2013. The new user's manual is dated May 2, 2022.
- In support of the Air Quality Conformity (AQC) analysis for the 2022 update of Visualize 2045, staff updated the any-year highway network and created transit networks for all AQC analysis years in the network geodatabase.
- In FY 22, staff created a new network report, dated June 15, 2022, that documents the development of highway and transit networks in support of the 2022 update of Visualize 2045. This report includes a chapter that documents the development of the Unified Network database.
- Staff developed horizon-year (2045) highway and transit networks in PT format in four time-of-day periods in support of the Gen3 Model development.

5.2 Model Development and Support

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months, so it did not meet in June. Nonetheless, staff prepared draft meeting highlights for the May 20 meeting and began developing the agenda for the July 22 meeting.

Generation 2/Ver. 2.3 and Ver. 2.4 Travel Model

Staff completed the preparation of the transmittal package for the Ver. 2.4 Travel Model, which was used in the Air Quality Conformity Analysis (AQC) of the 2022 Update to Visualize 2045 and the FY 2023-2026 TIP, after the AQC analysis was approved by the TPB on June 15. Specifically, staff developed the Version 2.4 Travel Model transmittal memorandum and prepared a cover letter for the transmittal package in June.

Following the TPB approval of the Ver. 2.4 Model, staff updated related modeling webpages on the COG website.

Staff completed the testing of the TRANSIMS ModeChoice software (Ver. 7.5.7) in the Ver. 2.4 Model and recommended its use in the next release of Ver. 2.4 Model in place of the outdated AEMS software. Documenting the testing results is underway.

Generation 2/Ver. 2.4_PT Travel Model

No activity.

Generation 3 Travel Model

Regarding the consultant-assisted project to develop the TPB's next-generation travel demand forecasting model, known as the Gen3 Model, which will be an activity-based travel model (ABM) implemented in ActivitySim software:

- COG held two check-in meetings with RSG and BMG, the consultants on the Gen3 Model development project, on June 9 and 23.

- Staff continued to work on the Gen3, Phase 1, Model received from RSG on January 8, 2022. Specifically,
    - In support of a future sensitivity analysis, staff created an R script that summarizes the disaggregate modeling data for a subset of population based on an example script from RSG. Staff executed the script on travel modeling server tms8 and examined outputs. Per request, staff also shared the script and output with the consultants.
    - Staff created a new webpage[1] on the COG website to share Gen3 Model, Phase 1, documents. Staff developed the text for the new webpage and uploaded related documents.
- 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 completed the deployment of auxiliary travel models in the Phase 2 Model and started to work on the documentation. In support of this work, staff sent RSG documents related to the external station groups that staff created for the analysis of the 2014 AirSage data.
    - COG staff are tasked with estimating four component models between April and July. COG staff successfully generated the estimation data bundles (EDBs) and started to work on the model estimation tasks with the assistance from RSG.
    - Per request from RSG, staff prepared the Gen3 Model inputs and conducted a model run for the horizon year of 2045. Staff summarized modeling results and documented the findings in a memo dated June 16. Staff shared the memo with RSG.
    - During the 2045 model run, staff noticed that model year value was hard-coded (currently "2018") as part of some input files defined in the setting. On June 21, staff created an issue in GitHub for RSG to fix it.
    - Following the implementation of the Cube Public Transport (PT) multi-routing algorithm in the Gen3 Model, staff created commuter rail In-Vehicle Time (IVT) plots to further investigate the VRE ridership underestimation issue. Staff documented their observations in a memo dated June 7. RSG provided a response on June 20.
    - Staff reached out to Bentley and RSG regarding a hyper-path issue that staff discovered when examining the commuter rail IVT plots. Staff proposed a workaround based on the suggestions from the consultants.
    - Per request, staff summarized the observed and simulated commuter rail ridership by line and shared their findings within the team.

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.

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[1] "TPB's Development Travel Models: Gen3 Model - Travel Demand Modeling," Metropolitan Washington Council of Governments, July 18, 2022, https://www.mwcog.org/transportation/data-and-tools/modeling/developmental-travel-model/.

Other activities

Staff serviced two data requests in June. One request was from Volpe for the Rock Creek and Potomac Parkway (RCPP) Reversible Parkway Study and the other request was from a consultant working on the Northern Virginia Regional Commission (NVRC) Fast Ferry Passenger Service Business Plan project. The requested data includes the Ver. 2.4 Travel Model (2020 Amendment to Visualize 2045) and loaded-link highway networks in shapefile format from the Version 2.3.78 Travel Model for years 2019, 2025, and 2045.

Staff organized and conducted an introductory training session on Git & GitHub on June 22. Staff introduced the Git and GitHub workflow that the Model Development Group is implementing to track issues and perform versioning for the Gen2 and Gen3 Travel Models.

IT purchased and successfully installed additional RAM on two of the TPB travel modeling servers tms6 and tms7 on June 1, which enabled staff to conduct Gen3 Model runs on those servers. Staff conducted test runs on those servers to confirm that the additional memory was working correctly. Following the RAM upgrade on the TPB travel modeling servers, staff started to update the computer specifications memo and spreadsheet to reflect those hardware changes.

Staff met with IT staff on June 1, 15 and 24 to discuss the technical and cost feasibility of migrating COG's on-premises travel model servers (TMS) to the cloud. Staff provided review of a memo that documents the cost analysis that IT staff had conducted for the existing on-premises TMS and the proposed AWS cloud design for TMS.

Staff attended Staff Brown Bag: Q&A with Erin Aleman, Executive Director, Chicago Metropolitan Agency for Planning on June 21.

Staff attended the ActivitySim Monthly Partners-Only Check-In meeting on June 16. Staff attended ActivitySim Consortium meetings regularly on Tuesdays and Thursdays.

FY 2022 Accomplishments

- Staff supported the TPB's current production-use, Generation 2/Version 2.4 Model, in the following ways:
  - In FY 22, staff prepared a transmittal package containing the latest COG/TPB production-use travel demand forecasting model (Gen2/Version 2.4 Travel Model) and its associated network and land use input files from the Air Quality Conformity (AQC) Analysis of the 2022 Update to Visualize 2045, a Long-Range Transportation Plan (LRTP) for the National Capital Region, and the FY 2023-2026 Transportation Improvement Program (TIP). The TPB approved the AQC determination on June 15, 2022, at which point the Ver. 2.4 Model, which was used for the analysis, became the adopted, production-use travel demand model. Following the TPB adoption of the Ver. 2.4 Model, staff made the transmittal package available for external data requests and updated the model-related webpages on the COG website.
  - During FY 22, staff completed the 2018 validation of the Ver. 2.4 Model and documented the work in a memorandum dated August 17, 2021.
  - In support of the Air Quality Conformity (AQC) Analysis of the 2022 Update to Visualize 2045, staff updated the land use, exogenous trips, and CPI files for the Ver. 2.4 Model. Staff also developed a Python script that can process the Cooperative Forecasts of Land Use data and prepare the land use inputs files to travel demand models. This Python script is expected to replace the existing, Cube-based land use data processing program during the next conformity cycle.

- o Staff updated the Select Link Analysis (SLA) application to be consistent with the Ver. 2.4 Model, which is documented in a memorandum dated December 7, 2021.
  - o Using the latest Gen2/Ver. 2.4 Model, staff conducted a scenario analysis that examined the impacts of hypothetical zero bus fare and zero transit fare policies for the region.
  - o In support of model validation and mobile emissions modeling activities, staff compiled observed daily vehicles miles of travel (VMT) data for the year 2020, based on HPMS reports from state DOTs' websites and developed the jurisdictional Weekday VMT Summaries by Federal Functional Class (FFC). Staff documented this work in a memorandum dated January 4, 2022.
- Staff supported the development of the TPB's Generation 2/Version 2.4 Model in the following ways:
  - o With assistance from AECOM, developer of the TRANSIMS ModeChoice software, staff explored the feasibility of replacing the outdated AEMS software with TRANSIMS ModeChoice for mode choice modeling in the TPB's Gen2 Travel Model. Staff tested ModeChoice in both the Ver. 2.3.75 and Ver. 2.4 Travel Models. After AECOM subsequently improved the software, staff found the testing results of the latest version (Version 7.5.7) largely satisfactory and recommended its use in the next release of the Ver. 2.4 Travel Model.
  - o Leveraging the ABM Visualizer tool that consultants developed to visualize the modeling results from the Gen3 Model, staff developed two visualizer tools that can be used to visualize region-level Gen2/Ver. 2.3 and Gen2/Ver. 2.4 Model summaries.
  - o Staff discovered a discrepancy with the current bus speed degradation process in the Ver. 2.4 Model, implemented a fix, and documented it in a memorandum dated May 20, 2022.
  - o Staff developed flowcharts for the developmental Ver. 2.4_PT Model, re-calibrated its Nested-Logit Mode Choice (NLMC) Model to year-2007 conditions and conducted the year-2014 validation of the model. Staff created a technical memorandum, dated August 2, 2021, that documents all those activities associated with the Ver. 2.4_PT Model.
  - o Throughout FY 22, staff discovered and fixed a few issues in the Ver. 2.4_PT Model. Examples included the summary of bus boardings in the LineSum control file, the Non-Transit (NT) leg generation for Mode 10 (streetcar/BRT) stations and the zonehwy.net file created for unbuilding.
- Staff continued the development of the TPB next-generation travel model, to be known as Generation 3 (Gen3) Model, with consultant assistance. Staff contributed to the Gen3 Model development project in the following ways:
  - o Attended the regular check-in meetings and many ad-hoc meetings with the consultants.
  - o Reviewed and helped finalize numerous project documents, including meeting agendas, meeting minutes, task order proposals, presentation slides, technical memoranda, reports, and other deliverables.

- o In coordination within the team and with other teams/departments, provided feedback on various consultant requests both in writing and through MS Teams meetings.
  - o Provided technical support for various model development activities. Notable examples include:
    - ▪ Reviewed various Gen3, Phase 1, model documents and shared main documents on a new COG webpage.
    - ▪ Conducted the Gen3 Model, Phase 1, Sensitivity Testing and coauthored the report with the consultants.
    - ▪ Switched from the Cube Public Transport (PT) Best-Routing algorithm to the Multi-Routing Algorithm in the Gen3 Model.
    - ▪ Prepared and conducted a Gen3 Model Run for Year 2045
    - ▪ Implemented a series of enhancements and bugfixes related to Gen3 Model
  - o Staff attended the ActivitySim Consortium technical meetings on Tuesdays and the monthly partners-only check-in meetings on a regular basis.
- Staff assembled and provided modeling data in response to a variety of data requests from regional stakeholders.
- Staff provided software and hardware support related to model development activities. The most significant developments included:
  - o In FY 22, staff continued to help ITFM with the testing of Amazon cloud services. Staff helped spec cloud servers and conducted test runs on them. Staff also helped with the technical and cost feasibility analysis of switching from on-premises travel modeling servers to Amazon cloud servers.
  - o Staff continued to use GitHub repositories to manage the Gen2/Gen3 model codes. Staff enhanced the workflow for version control in GitHub based on the user experience. Staff also conducted a workshop to promote the use of Git/GitHub in the team.

Task 6	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	$2,039,172	$171,593	94%	51

6. MOBILE EMISSIONS PLANNING

6.1 Air Quality Conformity

The TPB approved the air quality conformity analysis and adopted the 2022 Update to the Visualize 2045 Long-Range Transportation Plan (LRTP) and the FY 2023-2026 Transportation Improvement Program (TIP). Staff finalized the full air quality conformity report for the 2022 Update to Visualize 2045 conformity analysis and posted the updated report on the COG website. Staff subsequently transmitted the conformity report, the LRTP report, and the TIP (along with the TPB self-certification document) to the Federal Highway Administration, the Federal Transit Administration, the region's state departments of transportation, the state air agencies, the Calvert-St. Mary's Metropolitan Planning Organization (MPO), and the Fredericksburg Area MPO. Staff also supplied the input,

output, and RUNSPEC files from the Motor Vehicle Emission Simulator (MOVES) runs associated with the air quality conformity analysis.

Staff begin to attend coordination meetings related to scheduling tasks for the "interim" 2024 update of the region's LRTP, including the air quality conformity analysis, system performance, and environmental justice analysis.

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

FY 2022 Accomplishments

- In an activity that spanned majority of the fiscal year, staff conducted tasks related to the 2022 Update to Visualize 2045 air quality conformity analysis, including network development, preparation of input files, travel demand modeling, mobile emissions modeling, and development of documentation. The TPB approved the air quality conformity analysis (R16-2022) and adopted the 2022 Update to the Visualize 2045 LRTP and the FY 2023-2026 TIP (R15-2022) at its June meeting, and staff subsequently transmitted the documentation and relevant files to the federal, state, and local agencies.

6.2 Mobile Emissions Analysis

COG's Department of Environmental Programs (DEP) and TPB staff continued to coordinate with state air agencies on plans related to development of the Attainment State Implementation Plan (SIP) and Maintenance Plan/Redesignation Request to address requirements of the 2015 Ozone National Ambient Air Quality Standards (NAAQS). At the Metropolitan Washington Air Quality Committee – Technical Advisory Committee meeting, DEP staff provided a project status update (item #3).

DEP and TPB staff coordinated regarding acquisition of MOVES3.0.3 inputs, including Alternate Vehicle and Fuel Technology (AVFT) inputs, from state air agencies for use in an Attainment SIP for the 2015 Ozone NAAQS. DEP staff reached out to the state air agencies to acquire this data.

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. TPB staff and DEP staff also continued to assist local jurisdictions related to climate change planning. Specifically, TPB staff provided the requested 2020 VMT data from MOVES2014b to the District Department of Energy and Environment for development of the District of Columbia greenhouse gas inventories.

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 maintain consistency with the recently released Version 2.4 Travel Demand Model.

FY 2022 Accomplishments

- TPB staff worked closely with the project consultant (ICF) and TPB members to finalize the Climate Change Mitigation Study of 2021 (CCMS), which consisted of two phases:
  - Review of Past COG and TPB Studies related to Climate Change (Literature Review), completed by TPB staff (completed in FY 2021).
  - Scenario Study: What would it take to reduce transportation sector greenhouse gas emissions by 50% by 2030? (completed in FY 2022).

- DTP staff supported the project consultant (ICF) in development of scenarios, analysis, and documentation for the Phase 2 of the study, which was completed in December 2021, when the TPB was briefed on the study findings and when the report was finalized.
- Following completion of the CCMS, TPB staff conducted a member survey of climate change mitigation goals and strategies, which allowed the TPB member agencies to anonymously provide their preferences regarding the climate change mitigation goals and strategies that the region could support.
- Upon completion of the CCMS and TPB member survey of climate change mitigation goals and strategies, and in response to the climate-focused discussion at special TPB work sessions and TPB meetings, the TPB endorsed a set of transportation-sector-specific greenhouse gas reduction goals and strategies that will support the region's existing non-sector-specific greenhouse gas reduction goals (June 2022, R18-2022). The on-road transportation-sector goals include reducing the 2030 greenhouse gas (GHG) emissions by 50 percent below 2005 levels and 2050 GHG emissions by 80 percent below 2005 levels.
- TPB staff completed the decoding and processing of the vehicle registration data/Vehicle Identification Number (VIN) data and presented the major findings to the TPB Technical Committee in September 2021. The decoded and processed data were subsequently shared with the three state air agencies. The dataset was used in the 2022 Update to Visualize 2045 air quality conformity analysis.
- TPB staff developed the 2020 GHG Inventory for the on-road transportation sector and provided the data to the Department of Environmental Programs (DEP) staff for further analysis. The process was revised to account for the impacts of travel behavior changes due to the COVID-19 pandemic.
- TPB staff continued to work closely with Department of Environmental Programs (DEP) staff on plans related to development of Reasonable Further Progress and Attainment State Implementation Plans (SIPs) to address requirements of the 2015 ozone National Ambient Air Quality Standards (NAAQS). Staff participated in discussions regarding the planning implications of the 2021 and 2022 ozone seasons and worked closely with senior management to understand and evaluate different planning options.

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	$1,815,999	$145,343	70%	53

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Travel Surveys

Smartphone Panel Survey

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

COVID-19 Literature Review

Staff finalized the memo for the RTS Follow-On Smartphone Panel Survey (SPS) for conducting an evaluation of the effectiveness of the smartphone survey methodology.

Staff delivered an internal briefing to the Team Leaders on the COVID-19 Literature Review Project summarizing the methodology and key findings of transportation surveys measuring the impacts to travel behavior from COVID-19 that inform regional transportation planning.

Other Activities

Staff fielded various data requests from stakeholders.

Staff conducted an internal meeting to begin developing a workplan for a new normal and/or geographically focused survey.

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

Staff responded to an inquiry from the NVTA about the travel patterns of low-income households from the RTS.

FY2022 Accomplishments

- COVID-19 Literature Review. TPB staff conducted a literature review of transportation surveys measuring the impacts to travel behavior from COVID-19 that inform regional planning. Following the literature scan and the memo focusing on survey design and sampling methods completed in FY 2021, TPB staff developed a memo with appendices summarizing the overall findings and trends in travel behavior across separate phases of the pandemic. The key findings from the literature review will be prepared for internal and external release in FY 2023. The memo will serve as a reference to help inform COG/TPB how the impact of COVID-19 on transportation is being studied by MPOs, federal/state governments, and academia.
- RTS Follow-On Smartphone Panel Survey. TPB staff performed an evaluation of the smartphone app-based survey methodology based on data from the 7-Day Regional Travel Survey (RTS) Follow-On Smartphone Panel Survey (SPS). The primary objectives of the SPS were to evaluate the effectiveness of the smartphone app-based survey methodology, to assess the quality of the data collected from a smartphone-app based survey, and to determine the feasibility of smartphone surveys for future survey efforts by TPB. TPB staff performed a comprehensive review of the SPS data files and performed data editing and imputation, followed by trip logic and consistency checks. After preparing the SPS data files for evaluation, TPB staff conducted a rigorous review of the edited and imputed data files and performed consistency checks including speed and distance checks by travel mode, trip logic and consistency checks for subway and commuter rail trips, and trip purpose checks for loop trips. TPB staff also conducted a detailed analysis of user feedback and comments on the smartphone app survey. The findings from the evaluation were documented in a memo. The findings from the SPS evaluation will be shared in a series of presentations to both internal and external audiences.
- RTS In-Depth Analysis. While releasing the results of the RTS, TPB staff developed responses to a series of questions from regional stakeholders that they hoped the RTS might help inform. This analysis project took a deeper dive into the RTS data with transportation equity implications. While the analysis was completed in FY 2021, the findings from this project were shared on the RTS web page and in a series of TPB committee briefings in the fall of 2021
- TPB Climate Change Mitigation Goals and Strategies Questionnaire, staff provided input on and finalize the questionnaire, administered it with Survey Monkey, and synthesized open responses. Staff developed a memo and slides to share the results and participated in meetings about the results.

7.2 Traffic Analysis Studies and Research

COVID-19 TRAVEL MONITORING SNAPSHOTS

Staff processed and analyzed the April 2022 traffic data from the region's continuous counting stations and enplanement data from the region's major airports to include in a snapshot showing the travel monitoring impacts of the COVID-19 Pandemic in the National Capital Region. In addition, staff started to look at day-of-week traffic variances in 2022.

Transportation Data Dashboard

Staff continued to discuss data needs with fellow DTP staff and to identify data sources to support data dashboard project. The conversation

Other Activities

- Staff gathered travel trends data for a dashboard under development by the Planning Data Resources Program Area.
- Staff reviewed and provided recommendations on a draft memo on Equity Emphasis Areas updated with 2016 to 2020 ACS data.
- Upon request by the Travel Forecasting and Emission Analysis Team, staff reviewed slides for a presentation on Alternatives Analysis in the National Capital Region for the Travel Forecasting Subcommittee.
- Staff participated in the following webinars: BTS Listening Session on the Infrastructure Investment and Jobs Act for Medium/Large MPOs, USDOT Flex Funding Overview
- Staff participated in an AMPO Data Working Group Leadership meeting

FY2022 Accomplishments

- **Transportation-related data dashboards.** Staff completed a first-cut concept and demonstrated it to the TPB Technical Committee.

- **Visualize 2045 existing conditions section, staff** gathered data, updated charts, and drafted language for this section

- **Transportation impacts of COVID-19 Pandemic.** Staff continued to coordinate with 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 regularly updated presentation slides with the latest information.

- **COVID-19 Travel Monitoring Snapshot** Staff maintained COVID-19 Traffic Volume Analysis using data from Continuous Count Stations. Snapshots created from this analysis are available on the COG website and these data have been referenced by multiple news outlets.

- **Pre-pandemic versus 2020 and 2021 Labor Day weekend travel trends.** Staff participated in a multi-team effort to analyze travel trends

- **Equity and High-Capacity Transit Focus.** In support of the COG Board and TPB resolutions (and COG Board Retreat) to promote development of transit-oriented communities and elevate the use of EEAs in the region to incorporate equity into the work of COG and TPB, staff developed summaries and visualizations. Staff also conducted an internal "lunch and learn" demonstration of the EEA and HCT interactive tools to staff in all COG departments to help promote the use of EEAs and HCT in the organization's regional planning efforts.

- **Big Data project.** Staff delivered updates to stakeholders as well as a presentation during the Annual AMPO meeting.

- **Organizational awareness and understanding of scenario planning.** staff shared the final products from the project with MPOs who participated in a questionnaire, during the Annual AMPO Conference, and to the COG website.

- **RTS in-depth analysis**, which analyzed aspects of the Regional Travel Survey (RTS) based on questions posed by stakeholders, staff finalized research on and delivered presentations to the Travel Forecasting Subcommittee (TFS), the Regional Public Transportation Subcommittee (RPTS) and the TBP Technical Committee. Staff also developed an article on this project.

- **SAS best practices.** Staff collaborated on an SAS best practices document to be shared with novice users as a guide

- **Regional Bike Count Coordination.** Staff participate in several meetings with the National Park Service on their and coordinated internally on an appropriate role for COG/TPB.

7.3 Regional Transportation Data Clearinghouse

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

Staff responded to an inquiry from COG's Department of Environmental Programs (DEP) staff about the availability of transit (bus stop) related datasets for Metrobus in Prince George's County. Staff received a follow up request for additional information regarding Origin–Destination trip data, parcel boundaries, and hybrid and electric vehicle ownership data. Staff provided links to several potential data sources.

Staff reran SAS programs to update the PBPP bridge summary with the updated NBI data for 2016 through 2021.

Staff created the updated charts for all jurisdictions/states/and the TPB planning region. In addition, staff updated the PBPP workbook and added detailed descriptions and notes for each item.

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

Staff worked to package the reviewed and cleaned continuous active transportation counts available for past years.

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

FY2022 Accomplishments

- Staff continued to obtain, process and, update the standard datasets available in the RTDC. Data updates include gathering the weekly average weekly transit ridership, average annual traffic counts, hourly traffic counts, vehicle miles traveled (VMT), and cooperative forecasting data, among others. Staff also included non-spatial datasets (document links) - Northern Virginia Park and Ride Assessment Study and Scenario Planning Organizational Awareness and Understanding. Staff continued to work together to update and refine the standard datasets available in the RTDC.

- Staff updated the RTDC VMT files to include 2020 data. During this process, staff identified issues with some of the input data and worked with the issuing agencies to obtain explanations and updates.
- Staff worked with FHWA staff to obtain HPMS data that was not available from the FHWA Hosting website.
- Staff compiled and processed the 2019 and 2020 pavement and 2020 and 2021 bridge data and updated the earlier years' bridge and pavement data available for Performance Based Planning & Programming (PBPP) purposes and for inclusion in the RTDC. In addition, staff used the bridge and pavement data to produce and refine tables and charts for PBPP purposes.
- Staff met and coordinated with Planning Research and Assistance team members to discuss Pavement and Bridge databases used in by the Systems Performance team to support performance-based planning and programming (PBPP) requirements. Staff worked together to refine the workflow for obtaining, processing, and visualizing the bridge data from the National Bridge Inventory (NBI). Staff authored a comprehensive memorandum outlining the workflow. Staff performed a detailed analysis to determine location inaccuracies in the raw NBI data and created a master GIS file of corrected locations. Staff will continue to work on developing new and updated visualizations of the data in the coming fiscal year.
- Staff used data from the region's continuous traffic counters to develop a factor to be applied to 2020 annual average daily traffic (AADT) and daily vehicle miles traveled (VMT) data to develop weekday figures. Staff documented this process and results in a memo to fellow TPB staff and presented the results to the Travel Forecasting Subcommittee.
- Staff began to explore opportunities for DDOT, VDOT, and MD SHA to share common data for use in HPMS traffic data preparation.
- Staff continued to respond to inquiries and questions regarding data available in the RTDC form COG/TPB staff, state and local partners, and consultants.
- Staff attended several FHWA, AASHTO, Census Bureau, and vendor sponsored conferences and webinars as well as COG/TPB committee, subcommittee, and user's group meetings and workshops.

Staff regularly participated in meetings and email exchanges with the Travel Forecasting and Emissions Analysis Program team and their contractor, RSG, to clarify traffic data needs for Gen3 Model development.7.4 GIS Data, and Analysis

Task 8	BUDGET	Billed this month	% Funds Expended	UPWP Page
REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION	$1,190,179	$117,459	85%	57

8. REGIONAL LAND USE AND TRANSPORTATION PLANNING COORDINATION

8.1 Socioeconomic Forecasting

Planning for Round 10

DPCS staff finished geo-coding of the DataAxle employment file and continued to share individual jurisdictional databases with Subcommittee members.

ICF staff presented the final draft findings from their research into potential long-term COVID impacts to the Cooperative Forecasting Subcommittee on June 14 and to the Planning Directors on

June 17. Key findings in the draft technical report include potential changes to office space utilization and demand; emerging trends in average household size; a potential range of future economic forecasts pivoting from the IHS Global Insight regional forecasts; and potential impacts to the timing and location of future housing growth due to the increased prevalence of telework.

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.

<u>Housing Targets</u>

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

<u>Other Activities</u>

- Staff reviewed the employment definition adjustment factors and recommended an update after Cooperative Forecast Round 10 is complete.
- Staff participated in a discussion with IHS Market Staff to discuss their latest forecasts for metropolitan Washington
- Staff participated in Greater Washington Board of Trade's *Emerging Economic Threats: Capital Market Volatility* webinar.
- Staff directed Travel Forecasting and Emissions Analysis staff to Census American Community Survey household estimates by state

FY2022 Accomplishments

- **Cooperative Forecasting**
  - **Round 9.2** Staff reviewed the draft Round 9.2 Cooperative Forecasts.
  - **Employment definition Adjustment Factors.** With input from the Baseline Employment Memo, staff reviewed and recommended maintaining the factors at their current levels and reviewing them again once Round 10 is finalized.
  - **Preparation for Round 10.** Staff planned and prepared for Round 10 by developing a proposed draft Round 10 workplan to the Cooperative Forecasting and Data Subcommittee and the Planning Directors. Staff also developed several technical resources:
    - **DataAxle employment database to COG TAZs** DCPS staff acquired and geocoded the data by premise address for March 2020 and September 2020. DCPS staff provided detailed employment records to Cooperative Forecasting Subcommittee members for use in developing their Round 10 employment base by TAZ.
    - **Census Block (and data) conversion/allocation into TPB TAZs.** Subsequently, DCPS staff provided each district with a file containing 2020 Census housing units, occupied units, household population, and group quarters population allocated by TAZ for use as their Round 10 population and housing 2020 base.

- **Round 10 Cooperative Forecast Technical Assistance**. DCPS staff developed a scope and issued a task order for research into several key COVID-related trends that may impact the Round 10 Cooperative Forecasts. The project was presented to the Cooperative Forecasting Subcommittee and Planning Directors and will inform local government members in their development of Round 10 jurisdictional and small-area forecasts.

- **Baseline Employment Memo.** Staff updated and presented this memo to the Cooperative Forecasting Subcommittee.

- **New S&P Global Insight population and employment forecasts.** DCPS staff also presented a preliminary assessment comparing the COG region with the 2015 Global Insight regional projections and Round 9.2 regional forecasts. DCPS staff noted that the new S&P employment forecasts are significantly lower in the years 2035 and beyond when compared to the 2015 series.

  o **2020 Census PL94 data.** Staff presented a comparison of 2020 Census PL94 data compared to Cooperative Forecast estimates for 2020 population and households. The comparison noted that the regional totals were quite accurate, but that at least 2 jurisdictions showed significant differences in their predicted versus 'actual' 2020 population and housing.

  o **"Our Changing Region".** DCPS staff prepared the report, "Our Changing Region", the first study highlighting demographic trends in the region as shown in the 2020 Census PL94-171 legislative redistricting data. DCPS staff presented the report to the Cooperative Forecasting Subcommittee, Planning Directors Technical Advisory Committee and to the COG Board of Directors.

- **COVID impacts the region's economy.** COG-wide multi-sector analysis of COVID impacts, DCPS staff continued to update the COVID multi-sector PowerPoint presentation that documents the effects to date of COVID on the region's economy.

- **COG regional housing targets.** DCPS staff completed the 2021 Multifamily Rental Housing Construction Indicators Report based on CoStar data. DCPS Housing staff continued to convene bi-monthly meetings of the Housing Directors Advisory Committee (HDAC) to share challenges and best practices on preserving and increasing the supply of affordable housing.

  o **Housing Affordability Planning Program (HAPP) grants.** With support from Amazon, staff prepared for the launch of the Housing Affordability Planning Program. Staff received 24 applications and established a HAPP Selection Committee composed of 5 local housing experts from DC, Maryland and Virginia and convened 2 meetings of the Committee to deliberate on grant recommendations. In June 2020, the COG Board of Directors approved $656,300 in grants to support 10 local planning initiatives and development projects which address the need for more housing, affordable to those with lower incomes and near transit.

- **High-capacity Transit stations and in Equity Focus.** In preparation for the July 2021 COG Leadership retreat, DCPS staff worked with DTP staff to develop tabulations and maps of the Cooperative Forecasts and the CoStar database to facilitate conversations on optimizing development near High-capacity Transit stations and in Equity Emphasis Areas.

- **Climate Change Mitigation Study**. Staff reviewed balanced land use method memos 2030 and 2050.

- **Local Technical Assistance Program Support**. Staff served on the project selection panel for the Transportation Land-Use Connections program. Staff participated in bi-weekly meetings to promote coordination between the local technical assistance programs.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	$876,170	$228,900	88%	59

9. MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

No activities were undertaken in June. The main staffer left COG and the hiring process was initiated.

FY2022 Accomplishments:

- The planning element of the Human Services Transportation Coordination Program, which included the TPB Solicitation and selection of FTA Section 5310 Enhanced Mobility program funds. The 2021 solicitation was initiated in the Spring of 2021, and was completed in Fall 2021. The TPB recommended funding 21 of the 23 applications received and competitively allocating the $6.6M in federal funding available (partial funding was provided to 17 of the 21 applications recommended, fully funding 4 of the applications).

9.2 Regional Roadway Safety Program

Each of the five FY 2021 RRSP projects was complete with progress as described below:

- MD (Montgomery and Prince George's Counties -- MD 650 Safety Study) – In coordination with Montgomery and Prince George's County staff, the consultant finalized and submitted a final roadway safety audit (RSA) report and project summary presentation. This project is considered complete.
- MD (Prince George's County - Roadway Safety Audits) – In coordination with Prince George's County staff, the consultant finalized and submitted its final recommendations and concept designs for the roadway safety audit locations. This project is considered complete.
- MD (City of Laurel - Roadway Safety Audit) – The consultant submitted draft recommendations to City of Laurel staff and provided a summary presentation to City Council. This project is considered complete.
- VA (Arlington County - School Zone Speed Camera Guidelines) – The consultant submitted to Arlington County staff a draft final report, technical memo, and report. This project is considered complete.
- VA (Town of Herndon – Herndon Parkway Complete Streets) - The consultant submitted to Town of Herndon staff a draft design plan. This project is considered complete.

Each of the five FY 2022 RRSP projects was currently underway with progress as described below:

- VA (City of Alexandria – Near Miss Tool) –The consultant conducted a data suitability assessment of near miss crash data collected through the NOVA Families for Safety Streets (NOVA FSS) Near Miss Application to determine the usability of the data for analysis and crash prediction. The consultant began preparation of a draft Data Suitability Report to document findings from the assessment.
- VA/MD (Arlington & Prince George's Counties - Traffic Safety Gardens) - Arlington County staff, Prince George's County staff, and the consultant identified candidates for research interviews and began scheduling the interviews. The consultant also reviewed available

examples of traffic garden guidance documents from other jurisdictions and organizations to inform the development of deliverables for this project.
- VA (Fairfax County – Harrison Road Improvements) - The consultant conducted a field survey and compiled relevant crash data to inform the development of draft design plans.
- VA (City of Falls Church – South Washington Street Pedestrian Improvements) – The consultant conducted an initial analysis of crash data and prepared materials for a field visit in July.
- VA (Prince William County – Graham Park Road Safety Improvements) - The consultant team performed field observations along Graham Park Road during peak and non-peak periods. The consultant additionally met with Prince William County staff, the County's Safe Routes to School coordinator, and school officials to gain insights into the safety concerns along the corridor, especially near Graham Park Middle School.

Following an application and review process over the previous months, on June 15, the TPB approved the Selection Panel's recommendation for four (4) Regional Roadway Safety Program projects to be undertaken in FY 2023, supported by FY 2023 UPWP funding:

- Roadway Safety Audits for Wheeler Road & Brooks Drive, Prince George's County
- Multimodal Upgrades to Walker Mill Road, Maryland-National Capital Park and Planning Commission / Prince George's County
- Beall Avenue Protected Intersections Feasibility Study, City of Rockville
- Duke Street at S. Patrick and S. Henry Streets Safety Improvements, City of Alexandria.

FY2022 Accomplishments:

- All five (5) FY 2021-funded RRSP projects were completed as scheduled, and reports shared with stakeholders.
- All five (5) FY 2022-funded RRSP projects were initiated, to be completed as scheduled in FY 2023.
- Four (4) FY 2023-funded RRSP project proposals were approved by the TPB, for completion in FY 2023.

9.3 Transportation Alternatives Set-Aside Program

The solicitation for TAP applications in Maryland was conducted between April 15 and May 16. At the end of May, MDOT staff sent TPB staff seven applications to consider for funding in our region. A selection panel met twice at the end of June to develop recommendations for funding. The panel's final recommendation called for funding for one project. The TPB was scheduled to approve projects for funding in July.

FY2022 Accomplishments

Under federal law, the TPB is responsible for selecting projects for the funding sub-allocated to the TPB from the federal Transportation Alternatives Set-Aside Program. These selection processes are conducted separately for each of the TPB's three state-level jurisdictions. Activities include coordination with the state DOTs, and evaluation, selection, and approval of projects for funding.

Application reviews and project selection activities that occurred in FY 2022 occurred during the following months:

- June-July 2021 – FY 2022 funding for Maryland
- June-July 2021 – FY 2022 funding for D.C

- December 2021 - February 2022 – FY 2023-24 funding for Virginia
- May 2022 – FY 2023 Supplemental funding (IIJA) for Virginia
- June-July 2022 - FY 2022 funding for Maryland

Through the actions listed above, the TPB authorized a total of $18,758,546 in federal TA Set-Aside funds.

9.4 Transportation/Land-Use Connections (TLC) Program

Staff continued the consultant recruitment process for the 11 TLC projects selected for FY 2023. Pre-qualified consultants filled out a questionnaire in June in which they indicated their levels of interest in the projects. Based on that input, staff identified consultants from whom proposals were solicited. The proposals were due in July. Final consultant selection is expected in August and the projects will be set to begin in September.

Work on all 11 TLC projects for FY 2022 was completed. Consultants submitted final products and COG paid final invoices.

FY2022 Accomplishments

Staff accomplished activities described for this task in the UPWP. These included:

- 11 TLC projects for FY 2022 were conducted and completed. Activities included consultant selection, project oversight, and project administration. Task orders for the projects totaled $600,000.
- 11 TLC for FY 2023 were selected. Activities included solicitation of applications, evaluation of applications, and selection and approval of projects for funding. Task orders for the projects totaled $630,000.
- A revised process for consultant selection process for TLC was implemented.
- Information about the TLC Program was shared, including articles, website updates and enhancements throughout the year.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB MANAGEMENT AND SUPPORT	$963,379	$79,625	63%	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 June FY 2022 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 **June FY 2022** Telephone / Web Ex / Microsoft Teams Communications:

- CAO's Monthly Meeting
- Climate Change Mitigation Study discussions with TPB Chair and other members
- TPB Action @ VIZ 2045 discussions with TPB Chair and other members
- MDOT Economic Working Group – Presentation @ TPB's Viz. 2045
- EV / ZEV Work @ COG – Coordinating with NVTC's work
- COG Board of Directors Meeting
- Greater Washington Community Foundation – EEA Work overview
- Internal staff meeting @ COG's HAPP Grants
- ENOs IIJA Webinar
- MATOC Steering Committee @ MATOC office, College Park, MD
- Racial Equity Meeting
- Major METROs Round Table @ NARC
- Commuter Connections Employer Awards – Natl. Press Club
- LRTP Policy Framework Document – Internal staff meeting

FY 2022 Accomplishments

- State Technical Working Group (STWG) – 11 Meetings
- TPB Technical Committee – 11 Meetings

- • TPB Steering Committee – 11 Meetings
- • MWCOG Board Meetings – 11 Meetings
- • Transportation Planning Board (TPB) – 11 Meetings
- • MATOC Steering Committee – 8 Meetings
- • TPB Citizens Advisory Committee (CAC) - 10 Meetings
- • TPB Access for All (AFA) – 5 Meetings
- • Regional Public Transportation Subcommittee (RPTS) – 8 Meetings
- • Bicycle & Pedestrian Subcommittee – 6 Meetings
- • COG Planning Directors – 3 Meetings
- • TPB Freight Subcommittees – 5 Meetings
- • CAOs Monthly Meeting – 11 Meetings
- • Various additional meetings, all mentioned in previous progress reports.

UPWP

The UPWP activities include: Supervise the preparation, negotiation, and approval of the annual work program and budget involving the State Transportation Agencies, the TPB Technical Committee, the TPB Technical Committee, the Steering Committee and the TPB. Preparation of monthly UPWP progress reports for each of the state agencies administering planning funding and preparing all necessary federal grant applications submissions. Review all monthly UPWP invoices going to each of the state agencies administering planning funding.

FY 2022 'ACCOMPLISHMENTS and Other additional activities by the TPB Staff Director	
May FY 2022	
• CAOs Monthly Meeting	• State Air & Transportation Agency Meeting
• MDOT - TRP/Op Lanes Status Report Discussion	• ICF Team – GHG Goals and Strategies Additional Analysis Results Discussion
• WMATA - FY24 Fiscal Cliff – Status of discussions	• Equity Action Plan Stakeholder Briefing
• AQ SIP & Conformity 6 Agency Call	• COG Staff GARE Team Briefing – DTP Program Directors
• NARC's Major Metros Roundtable Biweekly Meeting	• Staff Equity Enrichment Series #3
• Montgomery County Chamber of Commerce Infrastructure & Land Use Committee	• Overview TPB Work Session on Climate Change
• AFA Candidate for Next Chair - staff discussion	•
APRIL FY 2022	
• White House MPO Roundtable 1	• Major Metros Roundtable Biweekly Meeting x2
• Transportation Conformity Sub-Committee	• WTOP/ other Media Prep
• CAOs Monthly Meeting	• TRP – Follow-up
• Region United: Metropolitan Washington	• COG Board Debrief
• EPA R3 RA & Washington Council of Governments Meet and Greet / A. Ortiz	• Equity Emphasis Areas – Session 3
• Virtual Open House – Visualize 2045	• CAC 2022 – TIP Forum
• WBJ Staff Roundtable – Region United	• TPB Climate Work Session Follow up staff discussion
• Region Forward Coalition	•

MARCH	
• Major Metros Roundtable biweekly meeting	• WaPo Interview Prep
• Board Participation Refresher	• LGW Transportation Day
• CAOs Monthly Meeting	• Washington Post Interview / K. Shaver
• Q&A with Doug Hooker / Atlanta Regional Council	• MPO Initiative
• DC Planning Funds – S. White / DDOT	• Staff Seminar – Equity Emphasis
• CEA Budget Review	• RFC Planning Call
• Capital Region Rail Vision Committee Check-in	• State Air Coordination Call
• City of Takoma Park – Safety Study Discussions	• Climate, Energy & Environment Policy Committee
• RFC Accessibility Planning / P. DesJardin	•
JANUARY FY 2022	
• City-wide Roadway Safety Planning	• TPB Climate Work Plan / Mayor Newton
• NCPC Open Session	• Major Metros Roundtable Discussion
• Refugee Resettlement	• US DOT Briefing IGA Partners / Monthly Call
• HAPP Check-in	• CEEPC Legislative Internal Prep & Committee Call
DECEMBER FY 2022	
• MetroNow Comments	• Discussions @ Priorities; Incoming TPB Chair (twice, in City of Manassas)
• Briefing on TPB Leadership Opportunity	• COG Annual Meeting
• CAO's Monthly Meeting	• Connected DMV – Stakeholder Survey Call
• COG Audit Committee	• TPB Officers Nominating Committee Call
• US-OST IIJA (Virtual) Briefings	• TPB Climate Change Mitigation Study Team meeting
• Amazon/MWCOG HAPP Grant	• TPB MDOT Climate Change Discussion
• COG DEI Professional Development for Advancing Racial Equity	• OLDCC MIRR Regional Collaboration Forum IIJA Presentation
NOVEMBER FY 2022	
• COG Board 2020 Census Briefing COG Staff	• Return to Office Discussion COG Mgmt.
• DMV Regional Equity and Growth Playbook Connected DMV	• Gare Project & COG Racial Equity Report Potential Synergy COG Mgmt.
• Major Metros Roundtable NVRC (2 events)	• NVTC MAC
• Race 2 Equity Report COG Mgmt.	• TPB Climate Change Mitigation Study Team
• Tree Canopy Next Steps COG Staff	• IGA Partners Monthly Call US OST (IIJA)
• COG DEI Professional Development fort Advancing Racial Equity Training	• Climate Change Mitigation Study Team
• MIRR Group Infrastructure Briefing	• Native Peoples of the Chesapeake Region Training
OCTOBER FY 2022	
• PRR/R2E Report Next Steps – COG Management	• IRE Cohort 18 Guest Speaker Presentation
• Amazon Funding Review – COG's Housing Affordability grant program	• Amazon Grant Agreement/NDA – Discussions with Amazon staff
• Ozone SIP Planning Issue – COG staff discussion	• Reciprocity & EDA Grant – Discussions with COG staff
• MWCOG & ICF Leadership – Feedback on On-call services	• Region Forward Coalition Meeting (Sustainability)
• VIZ 2045 Performance Measure Update – Staff discussion	• Prince George's Co. Climate Action Commission Meeting
• Ideas for TPB work on EV/EVSE	• Census Presentation to COG Board Discussion
• State Air Agency call	•

SEPTEMBER FY 2022	
• COG's Census Work Briefing	• COG and Connected DMV Discussion on Federal Grant
• Amazon HAPP documents check-in	• IGA Partners Monthly Call
• Housing Directors Committee	• COG DEI Professional Development for Advancing Racial Equity – Training
• Prince George's County Climate Action Commission Meeting	• Post-resolution tasks on HAPP - COG & Amazon
• Amazon / COG Check-in @ HAPP	• REDS Equitable Development Theory of Change Workshop
JULY FY 2022	
• Climate Mitigation Study (CCMS)	• Discussions with MDOT (Conformity Inputs)
• Region Forward Coalition	• Proposed Changes to TPB R2-2022
• TPB Process for Plan Updates/Projects	• CEEPC & CBPC Meeting planning
• Major Metros Weekly	• Discussion NoVa Assoc. of Realtors/Fair Housing
AUGUST FY 2022	
• TPB Climate Change Mitigation Study	• Internal Equity Analysis/Training Roll-out
• Update on CCMS – Task 4	• FTA Administrator – Addressing COG Board
• Amazon Housing Update	• Review Amazon's HAPP Examples
• Major Metros Weekly	• Amazon/COG Housing TA
• COG/PRR/R2E Check-in	• Regional Housing Initiatives Peer-to-Peer Workshop
• Vaccine Credential Meeting	• Update on Visualize 2045
• Amazon – MWCOG	•

Task 11	BUDGET	Billed this month	% Funds Expended	UPWP Page
TECHNICAL ASSISTANCE	$1,276,978	$339,641	59%	63
District of Columbia	$252,256	$24,026	23%	63
Maryland	$457,053	$162,914	64%	65
Virginia	$410,429	$64,634	69%	68
Regional Transit	$167,234	$88,065	77%	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 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.

FY2022 Accomplishments

- **DDOT Historic Data Standardization project.** Staff gathered information, attended meetings, and prepared potential scopes of work for this proposed project.

- **Climate Change Mitigation study.** A climate change study was primarily being funded by the UPWP Core program with supplemental funding from the District of Columbia, Maryland, and Virginia Technical Assistance Accounts.

- **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 (TLC).** One TLC project in the District of Columbia was partially funded by the District of Columbia Technical Assistance Program. See TLC item above for further details about the TLC Program.

- **Travel demand model output.** Staff prepared output for use in the Rock Creek and Potomac Parkway Reversible Lanes Study upon request by DDOT.

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.

Staff reviewed applications submitted to the Maryland Transportation Alternatives Set-Aside Program.

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

This project is complete.

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.

FY2022 Accomplishments

- **Transportation/Land-Use Connections Program (TLC).** Four TLC 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 Mitigation study.** A climate change study was primarily being funded by the UPWP Core program with supplemental funding from the District of Columbia, Maryland, and Virginia Technical Assistance Accounts.

- **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.

- **Traffic Relief Plan (TRP) Project Development activities,** throughout the fiscal year, in response to specific requests, TPB staff provided MDOT staff with data and information related to the I-495/I-270 Managed Lanes Study and technical processes used in TPB's long-range transportation planning.

- **HPMS traffic data preparation,** staff met with a traffic consultant to MD SHA to explore opportunities for DDOT, VDOT, and MD SHA to share common data for use in HPMS traffic data preparation

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 on a request for support for data quality assurance for new active transportation trail counters. Staff reviewed the preliminary scope of work prepared by VDOT and coordinated with leadership to obtain consent to advance the request. Staff began developing a memo in response to the request.

Travel Monitoring and Survey

Active Transportation Counts

The traffic counting consultant conducted active transportation counts along the Fairfax County Parkway trail in May and June 2022 and delivered the data to staff in June.

Staff drafted the report on the fall 2021 non-motorized counts at locations in Prince William County and the City of Manassas and delivered it to VDOT staff for review and comment.

I-66 & I-395 Mode Share Study

This project is complete.

Climate Change Study

This project is complete.

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.

FY2022 Accomplishments

- **Transportation/Land-Use Connections Program (TLC)** 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.

- **Climate Change Mitigation study.** A climate change study was primarily being funded by the UPWP Core program with supplemental funding from the District of Columbia, Maryland, and Virginia Technical Assistance Accounts.

- **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.

- **Active Transportation Counts**.
  - Staff Delivered the report on the spring 2021 active transportation counts at locations along the W&OD Trail in Loudoun and Fairfax Counties.
  - Staff developed project scopes and budgets and reviewed cost proposals for the fall 2021 and spring 2022 Active Transportation Counts.
  - After the traffic counting consultant conducted active transportation counts at locations in Prince William County and the City of Manassas in in the fall of 2021, staff reviewed the counts, drafted the report and delivered it to VDOT staff for review and comment.
  - The contractor performed active transportation counts along the Fairfax County trail in May and June 2022. The data will be reviewed, and the report will be completed in FY 2023.
  - Staff redesigned the active transportation geodatabase layer to be more consistent among studies and to include all active transportation studies conducted by COG/TPB for VDOT since 2019

- **I-66/I-395 Mode Share Study**. Staff develop the scope of work and issue it to the on-call traffic monitoring contractor. Staff managed the contractor, conducted data analysis, completed the traffic, transit and active transportation data summaries, and drafted the study memos and transmittal files.

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>

Three projects are currently underway. Staff reviewed and processed an invoice for consultant services.

For the City of Manassas: Shared-Use Path Connection within Broad Run Transit Access Focus Area (TAFA), staff met with the city staff and consultant to consider an amendment to the scope of work after learning that current alignment may not be feasible.

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

No activity in June.

FY2022 Accomplishments

- **High-Capacity Transit Map.** Staff reviewed the scope of work and timeline with the DTP Department Director. Staff continued internal deliberations on definitions of Bus Rapid Transit (BRT) and other high-capacity transit, including a meeting with relevant staff to discuss the criteria used to define High-Capacity Transit (HCT) in TPB's work.

- **Transit Within Reach Technical Assistance Program**, For the six applications submitted to the program, staff reviewed, conducted a regional priorities analysis, and solicited input from state DOTs and regional agencies. Staff convened the selection panel to build consensus on the applications to recommend for funding. Staff delivered funding recommendations to the Board. Staff conducted a procurement process to select consultants for each project. Once the projects were kicked off, staff provided oversight.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

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

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

Staff continued to recruit a new planner for the CASP program. Staff selected candidates to interview, finalized questions, and conducted interviews.

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

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

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

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

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

<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>

Staff generated the Ground Access Forecast Update (GAFU) data for 2022 and performed quality checks.

Staff updated the enplanement spreadsheet with the latest data. Staff also updated and gathered domestic and international enplanement data to be reported in the RTDC.

FY2022 Accomplishments

- **Aviation Technical Subcommittee meetings.** Staff work with the Chair of the Subcommittee to develop an agenda, recruit speakers, and summarize meetings.

- **FAA Grant Coordination.** Staff met with the FAA Grant Officer to conduct a CASP program management review, including the status of open grants and deliverables. Staff prepared the AIP grant application. Staff finalized the Airport Capital Improvement Plan (ACIP) for FY 2022-2026 and submitted it to the Federal Aviation Administration (FAA)

- **Regional Air Passenger Survey.** Based on the APS Response Rate and Quality Study conducted in FY 2021, TPB staff developed recommendations for methodological changes in the 2022 APS. These recommendations were shared with the Aviation Technical Subcommittee in a series of presentations and briefings. To prepare for the 2022 APS, TPB staff reviewed the sampling process and data processing programs from previous APS efforts, in addition to reviewing the APS documentation. TPB released an RFP for a consultant to perform the 2022 APS, which will be conducted in the fall of 2022 (survey pretest) and spring of 2023 (main survey). Staff distributed the responses to the Technical Selection Committee to score. Staff coordinated with MWAA and MAA to obtain funding commitments.

- **Ground Access Forecast Update (GAFU).** Staff completed the GAFU using data from the 2017 Washington-Baltimore Regional Air Passenger Survey. Staff also began work on a set of ground access forecasts using data from the 2019 Washington-Baltimore Regional Air Passenger Survey. As part of this process, staff compared the data output from existing programs and streamlined GAFU programs to confirm the validation of the latest programs.

- **Historical Enplanement Data.** TPB staff updated historical enplanement spreadsheets.

- **New Transportation Data Analyst.** COG/TPB hired and onboarded a Transportation Data Analyst to work in the CASP Program.

- **New Transportation Planner.** COG/TPB staff conducted a recruitment effort for a new transportation planner. The staff has completed interviewing candidates and is in the process of making a recommendation for a candidate.

PROGRESS ON PLAN PRODUCTS

Task 3. Planning Elements

Regional Highway Safety Targets

- Final targets adopted by the TPB in January 2022

Regional Bicycle and Pedestrian Plan Update

- The 2022 Update of the Bicycle and Pedestrian Plan for the National Capital Region was developed, approved by the TPB in May 2022, and published.

Task 4. Public Participation

Qualitative Research (Focus Groups) for Visualize 2045

- Presentation of findings and release of report: November 2021

Phase II Outreach for Visualize 2045

- Outreach was "live" (signs with QR codes posted throughout the region) – June-August 2021
- Analysis of input – August-September 2021
- Release of findings – October-November 2021

Voices of the Region Storymap for Visualize 2045

- Product development – September-December 2021
- Product release – March 2022

Open Houses and TIP forum for Visualize 2045

- 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 are working to migrate from an older mode choice application program to a newer program.
  - Staff responded to support requests regarding running the regional travel demand model. In June, staff serviced four data requests (total of 36 for FY 22).
- Continued development, with consultant assistance, of the TPB's next-generation travel demand forecasting model, which will be an activity-based model (ABM), known as the Gen3 Model, which will occur over a three-and-a-half-year period, from FY 2020 to FY 2024.
  - Gen3, Phase 1 Model: A developmental model and associated technical documentation. This developmental travel model, which is designed for testing by TPB staff, was completed in Feb. 2022 (FY 22). The Gen3, Phase 1 Model has been estimated, calibrated, validated and delivered to COG staff for testing purposes.

- 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. 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.
  - ○ 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.
  - ○ Consultant documents, FY 22
    - ▪ ICF. TPB Climate Change Mitigation Study of 2021: A Review of Climate Action Plans and Literature on Transportation Greenhouse Gas Emissions Reduction Strategies and Their Effectiveness. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, July 8, 2021.
    - ▪ ICF. TPB Climate Change Mitigation Study of 2021: Task 4 Technical Memo: Scenarios and Associated Greenhouse Gas Reduction Actions. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, August 25, 2021.
    - ▪ ICF. TPB Climate Change Mitigation Study of 2021: Task 5 Technical Documentation: Selection of Modeling Tools and Analysis Approach. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, November 5, 2021.
    - ▪ ICF, Fehr & Peers, and Gallop Corporation. TPB Climate Change Mitigation Study of 2021: Scenario Analysis Findings. **Draft Report**. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, December 9, 2021.
    - ▪ ———. TPB Climate Change Mitigation Study of 2021: Technical Appendix. **Draft Report**. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, December 17, 2021.
    - ▪ ICF, Fehr & Peers, and Gallop Corporation. "TPB Climate Change Mitigation Study of 2021: Scenario Analysis Findings." **Final Report**. National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, January 7, 2022.

- ▪ ——. "TPB Climate Change Mitigation Study of 2021: Technical Appendix." National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, January 7, 2022.
  - ▪ ICF, Fehr & Peers, and Gallop Corporation. "TPB Climate Change Mitigation Study of 2021: Additional Transportation Scenarios Analysis: TPB Survey Identified Scenarios." **Draft Report.** National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, May 12, 2022.
  - ▪ ICF, Fehr & Peers, and Gallop Corporation. "TPB Climate Change Mitigation Study of 2021: Additional Transportation Scenarios Analysis: TPB Survey Identified Scenarios." **Final Report.** National Capital Region Transportation Planning Board, Metropolitan Washington Council of Governments, June 3, 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.
  - o 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.
  - o 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.
  - o 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.
  - o 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.
  - o Srikanth, Kanti. Memorandum to National Capital Region Transportation Planning Board. "Transportation Sector-Specific Climate Change Goals and Strategies for TPB's Plan and Planning Process." May 12, 2022.
  - o ——. "Climate Change Mitigation Goals and Strategies to Recommend to the TPB: Options." presented at the Work Session, National Capital Region Transportation Planning Board, held at the Metropolitan Washington Council of Governments, May 18, 2022.
  - o Moran, Mark. "Regional Electric Vehicle Deployment Plan Coordination: Recent Efforts by the Transportation Planning Board Regarding Climate Change Mitigation."

> presented at the COG Climate, Energy and Environment Policy Committee, held at the Metropolitan Washington Council of Governments, May 25, 2022.

- Technical activities, including preparation of mobile inventories and development of mobile budgets, and documentation related to the State Implementation Plans (SIPs) to meet the 2015 ozone NAAQS requirements.
- DEP and TPB staff continued to coordinate with state air agencies on plans related to development of Reasonable Further Progress (RFP) and Attainment State Implementation Plans (SIPs) to address requirements of the 2015 Ozone National Ambient Air Quality Standards (NAAQS).
- TPB staff worked with DEP staff, member jurisdictions, and state air agencies to facilitate various aspects of air quality and climate change planning activities.
  - Developed joint letter: Day, Robert, Metropolitan Washington Air Quality Committee (MWAQC), Deni Taveras, Climate, Energy and Environment Policy Committee (CEEPC), Charles Allen, National Capital Region Transportation Planning Board (TPB). Letter to Michael S. Regan and Administrator, U.S. Environmental Protection Agency. "Support for the Proposed Rule to Revise Existing National Greenhouse Gas Emissions Standards for Passenger Cars and Light Trucks through Model Year 2026; Docket ID No. EPA-HQ-OAR-2021-0208." Letter, September 22, 2021.
  - Developed joint letter: Day, Robert, Metropolitan Washington Air Quality Committee (MWAQC), Deni Taveras, Climate, Energy and Environment Policy Committee (CEEPC), Charles Allen, National Capital Region Transportation Planning Board (TPB). Letter to Steven Cliff and National Highway Traffic Safety Administration. "Support for the Proposed Corporate Average Fuel Economy Standards for Model Years 2024-2026 Passenger Cars and Light Trucks; Docket ID No. NHTSA-2021-0053." Letter, October 18, 2021.
  - Morrow, Erin, and Dusan Vuksan. Memorandum to National Capital Region Transportation Planning Board. "Revised 2023 and Later Model Year Light-Duty Vehicle Greenhouse Gas Emissions Standards: Final Rule." Memorandum, January 12, 2022.
- Upon finalizing the 2020 vehicle registration/vehicle identification number (VIN) decoding process based on the datasets provided to COG/TPB by the three state air agencies, TPB staff summarized and presented key findings to the TPB Technical Committee and 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

  - Staff began discussion about a workplan for new normal and/or geographically focused surveys.

- 7-Day Panel-Evaluation of Effectiveness of Smartphone Data Collection Methodology (June 2022)

  - Data analysis complete

  - Memo with findings completed

- COVID-19 Pandemic Travel Behavior Survey Literature Review (June 2022)

  - Data collection complete

- o   Memo with findings drafted and under review

- o   Release plan drafted

- o   Overview of project shared with Team Leaders

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 2021 data), January (October and November 2021 data), March (December 2021 data), April (January and February 2022 data), and March (May 2022 data).

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 reviewed

- Activity Centers and High-Capacity Transit Station Area Forecasts (June 2022)

  - o   Estimates and forecast develop several times for various activities.

- 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

  - o   "Our Changing Region", a first study highlighting demographic trends in the region from the 2020 Census PL94 data completed.

- Cooperative Forecasting Round 10 workplan (December 2021)

  - o   Complete

- Multifamily Housing Report (June 2022)

  - o   Complete

- Commercial Construction Indicators Report (June 2022)

  - o   Complete

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

	DC, MD and VA FTA, FHWA and LOCAL BUDGET TOTAL	FUNDS EXPENDED	BILLED THIS MONTH	% FUNDS EXPENDED
1. Long Range Planning				
Long - Range Transportation Planning	1,045,435.27	1,032,990.77	118,863.52	99%
Subtotal	**1,045,435.27**	**1,032,990.77**	**118,863.52**	**99%**
2. Transportation Improvement Program				
Transportation Improvement Program	266,963.20	225,231.08	21,671.83	84%
TIP Database Support	200,000.00	184,629	13,302	92%
Subtotal	**466,963.20**	**409,860.08**	**34,973.83**	**88%**
3. Planning Elements				
Congestion Management Process	434,255.14	344,712.38	25,777.19	79%
Systems Performance, Ops & Tech Planning	632,942.30	376,879.17	36,306.57	60%
Transportation Emergency Preparedness Planning	128,257.20	111,450.83	19,244.11	87%
Transportation Safety Planning	311,703.59	230,407.83	22,688.51	74%
Bicycle & Pedestrian Planning	168,032.40	163,243.17	12,125.53	97%
Regional Public Transportation Planning	391,160.06	308,903.02	98,382.04	79%
Freight Planning	268,665.92	263,801.46	72,460.59	98%
Metropolitan Area Transportation Operation Coord Program Planning	170,787.19	158,360.61	18,520.03	93%
Performance-Based Planning & Programming	212,468.43	207,074.68	6,577.36	97%
Subtotal	**2,718,272.23**	**2,164,833.15**	**312,081.93**	**80%**
4. Public Participation				
Public Participation	929,710.64	703,028.33	63,312.13	76%
Subtotal	**929,710.64**	**703,028.33**	**63,312.13**	**76%**
5. Travel Forecasting				
Software Support	226,785.46	149,153.12	12,803.84	66%
Network Development	1,012,945.63	916,158.87	100,875.7	90%
Model Development	1,527,605.72	1,337,028.81	177,503.25	88%
Subtotal	**2,767,336.81**	**2,402,340.8**	**291,182.79**	**87%**
6. Mobile Emissions Planning				
Air Quality Conformity	922,930.14	856,832.15	62,685.77	93%
Mobile Emissions Analysis	1,116,241.77	1,050,939.01	108,907.93	94%
Subtotal	**2,039,171.91**	**1,907,771.16**	**171,593.7**	**94%**
7. Travel Monitoring and Data Programs				
Regional Travel Survey	251,936.32	244,457.76	18,697.61	97%
Traffic Analysis & Research	591,214.05	217,249.27	38,020.48	37%
Regional Transportation Data Clearinghouse	324,078.11	196,271.73	19,135.77	61%
GIS Analysis	648,770.77	604,996.26	69,489.29	93%
Subtotal	**1,815,999.25**	**1,262,975.02**	**145,343.15**	**70%**
8. Planning Scenarios and Socioeconomic Forecasting				
Socioeconomic Forecasting	1,190,180.11	1,013,467.25	117,459.21	85%
Subtotal	**1,190,180.11**	**1,013,467.25**	**117,459.21**	**85%**
9. Mobility and Enhancement Programs				
Transportation and Land Use Connections Program	412,200.72	369,694.65	62,064.31	90%
Enhanced Mobility Grant Program	98,545.26	96,803.6	7,778.07	98%
Transportation Alternatives Set-Aside Programs	38,158.07	26,762.88	4,980.2	70%
Other Tasks to be defined 9.5	327,266.34	276,433.05	154,077.92	84%
Subtotal	**876,170.39**	**769,694.18**	**228,900.5**	**88%**
10. TPB Support and Management				
TPB Support and Management	963,378.33	609,090.72	79,625.05	63%
Subtotal	**963,378.33**	**609,090.72**	**79,625.05**	**63%**
Core Program	**14,812,618.14**	**12,276,051.46**	**1,563,335.81**	**83%**
A. District of Columbia Technical Assistance				
Program Development & Misc.	252,255.81	58,908.82	24,026.9	23%
B. Maryland Technical Assistance				
Program Development & Misc.	457,053.48	293,871.74	162,914.67	64%
C. Virginia Technical Assistance				
Program Development & Misc.	410,429.71	281,416.96	64,634.72	69%
D. Public Transit Technical Assistance				
Program Development & Misc.	167,234.17	128,482.74	88,065	77%
Technical Assistance	**1,286,973.17**	**762,680.26**	**339,641.29**	**59%**
TPB Grand Total	**16,099,591.31**	**13,038,731.72**	**1,902,977.1**	**81%**

FY 2022 TRANSPORTATION PLANNING BOARD
FINANCIAL STATUS OF TECHNICAL ASSISTANCE
June 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	1,083.65	1,083.69	6,376.35	6,376.61
Program Development & Misc	10,999.68	9,182.13	1,597.83	1,333.81	9,401.85	7,848.32
TBD	7,500.00	7,500.00	1,089.46	1,089.46	6,410.54	6,410.54
TBD	196,296.13	4,766.39	28,514.23	692.37	167,781.90	4,074.02
TLC-DC	30,000.00	30,000.00	4,357.84	4,357.84	25,642.16	25,642.16
Subtotal	**252,255.81**	**58,908.82**	**36,643.01**	**8,557.17**	**215,612.80**	**50,351.65**
B. MD Technical Assistant						
Climate Chg Mit Study -MD	14,921.00	14,920.60	2,167.44	2,167.39	12,753.56	12,753.21
Feasibility/Special Studi	24,998.00	0.00	3,631.24	0.00	21,366.76	0.00
Program Development & Misc	15,000.22	10,342.14	2,178.95	1,502.31	12,821.27	8,839.83
Planning Studies	8,750.00	8,750.00	1,271.04	1,271.04	7,478.96	7,478.96
TBD	133,384.26	0.00	19,375.57	0.00	114,008.69	0.00
Transportation Performance Measures	260,000.00	259,859.00	37,767.94	37,747.46	222,232.06	222,111.54
Subtotal	**457,053.48**	**293,871.74**	**66,392.19**	**42,688.19**	**390,661.29**	**251,183.55**
C. VA Technical Assistant						
Big Data Study-VA	14,921.00	14,920.60	2,167.44	2,167.39	12,753.56	12,753.21
MARC - VRE Runthrough - VA	10,000.15	7,600.79	1,452.63	1,104.10	8,547.52	6,496.69
Program Development & Misc	8,750.00	8,750.00	1,271.04	1,271.04	7,478.96	7,478.96
TBD	6,359.64	2,500.00	923.81	363.15	5,435.83	2,136.85
Transportation/Land Use Connection Program	80,320.00	79,990.00	11,667.39	11,619.45	68,652.61	68,370.55
Travel Demand Modeling	85,079.43	0.00	12,358.75	0.00	72,720.68	0.00
Travel Monitoring	204,999.49	167,655.57	29,778.49	24,353.87	175,221.00	143,301.70
Subtotal	**410,429.71**	**281,416.96**	**59,619.56**	**40,879.00**	**350,810.15**	**240,537.96**
D. WMATA						
Pgm Development & Misc	6,485.18	6,482.74	6,485.18	6,482.74	0.00	0.00
TBD	35,748.99	0.00	35,748.99	0.00	0.00	0.00
Transit Within Reach Soli	125,000.00	122,000.00	125,000.00	122,000.00	0.00	0.00
Subtotal	**167,234.17**	**128,482.74**	**167,234.17**	**128,482.74**	**0.00**	**0.00**
Grand Total	**1,286,973.17**	**762,680.26**	**329,888.93**	**220,607.10**	**957,084.24**	**542,073.16**