

FY 2021



National Capital Region
Transportation Planning Board

Work Program Progress Report

June 2021

FY 2021

FY 2021 End of the Year Accomplishments

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The TPB approved its FY 2021 Unified Planning Work Program (UPWP) March 2020 and amended it in March 2021. The TPB Work Program Progress Report provides a short summary of each activity for the month of July and August. In addition, this report concludes with status updates reflecting timelines for all ongoing program plans and projects. Please reference the 2021 UPWP for details concerning the approved budget, and work description for each task. The following graphic identifies all the activities in the UPWP.

1. LONG-RANGE TRANSPORTATION PLANNING 1.1 Long-Range Transportation Plan 1.2 Federal Compliance 1.3 Policy Board-Directed Activities	7. TRAVEL MONITORING AND DATA PROGRAMS 7.1 Regional Travel Survey 7.2 Traffic Analysis Studies and Research 7.3 Regional Transportation Data Clearinghouse 7.4 GIS Data and Analysis
2. TRANSPORTATION IMPROVEMENT PROGRAM 2.1 Transportation Improvement Program (TIP) 2.2 TIP Database Support	
3. PLANNING ELEMENTS 3.1 Performance-Based Planning and Programming 3.2 Congestion Management Process 3.3 Systems Performance, Operations, and Technology Planning 3.4 Transportation Emergency Preparedness Planning 3.5 Transportation Safety Planning 3.6 Bicycle and Pedestrian Planning 3.7 Regional Public Transportation Planning 3.8 Freight Planning 3.9 Metropolitan Area Transportation Operations Coordination Program Planning	8. SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING 8.1 Scenario Planning 8.2 Socioeconomic Forecasting
	9. MOBILITY AND ENHANCEMENT PROGRAMS 9.1 Enhanced Mobility Grant Program 9.2 Transportation Alternatives Set-Aside Program 9.3 Transportation and Land Use Connections Program
4. PUBLIC PARTICIPATION 4.1 Public Participation and Outreach 4.2 Communications	10. TPB MANAGEMENT AND SUPPORT 10.1 Transportation Planning Board Committee Support and Management and Unified Planning Work Program
5. TRAVEL FORECASTING 5.1 Network Development 5.2 Model Development	11. TECHNICAL ASSISTANCE 11.1 District of Columbia 11.2 Maryland 11.3 Virginia 11.4 WMATA
6. MOBILE EMISSIONS PLANNING 6.1 Air Quality Conformity 6.2 Mobile Emissions Analysis	CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM (CASP)

Task 1	BUDGET	Billed this month	% Funds Expended	UPWP Page
LONG RANGE TRANSPORTATION PLANNING	\$1,085,010	\$122,834	100%	31

1. LONG-RANGE TRANSPORTATION PLANNING

1.1 Long-Range Transportation Plan

In June 2021, the TPB staff conducted ongoing biweekly LRTP coordination meetings, during which planning and coordination take place for a range of LRTP activities and materials, from technical and financial inputs, and preparation for the comment period and its related materials, to the LRTP outline and approach/content, communications, mapping and public participation.

Staff completed a preliminary financial analysis of the Visualize 2045 long range plan and delivered briefings to the TPB and the TPB Technical Committee. Following the actions of the June TPB meeting, staff worked to recompute fiscal constraint for projects in Maryland, including a review of costs for each project.

The staff presented the technical inputs to the board in June 2021. The board approved the inputs, removing one significant project that was to be implemented using a public-private partnership (P3). Following this meeting the Maryland Department of Transportation (MDOT) indicated that the removal of the project from the conformity inputs would impact the constraint of the MDOT component of the financial plan, and therefore unless the P3 project, and its associated revenues were returned to the list of approved projects, other projects would need to be delayed in order to allocate public funding to required state-of-good-repair components of the P3 project. Staff worked with MDOT and board members to prepare for the July 2021 meeting to address this need.

In June, staff drafted and coordinated with TPB and COG staff to draft input of components to the long-range transportation plan as feasible based on available information. Staff prepared for the layout of templates for those components that will have text and data updates in fall 2021.

To promote the TPB Aspirational Initiatives, staff that manages long-range transportation plan activities continued to work with the public participation team to implement a socially distant public engagement approach for the– summer of 2021, building on Phase I of public participation (survey and focus groups). Staff also prepared for and conducted an informational public (virtual) session to provide an overview of this upcoming summer activity. Staff updated the website to reflect the activities.

Consultants to staff completed a draft whitepaper and memorandum, that staff will finalize in FY 2022, to document regional climate resiliency/stormwater planning and identify regional strategies for resiliency/stormwater management through transportation projects and programs. Staff also participated in a second scenario planning (staff capacity building) workshop.

FY 2021 ACCOMPLISHMENTS

- Staff selected and hired new staff to fill DTP positions 2002 and 2006 which support the LRTP team.
- Staff worked on key activities for Visualize 2045, the 2022 quadrennial long-range transportation plan update. Staff developed an outline and content for many of the key elements that will be included in the document. Staff worked with the board to issue a Technical Inputs Solicitation, update the inputs in a new database that had been developed (Project InfoTrak) and to then produce materials for the comment period and interagency review. Staff coordinated activities related to posting inputs for public comment period, conducted a 30-day comment period on the technical inputs and scope of work for the air quality conformity analysis of the TIP and LRTP. Staff then developed a summary memorandum of comments, compiled all comments, and worked with sponsoring agencies to develop responses to comments. Staff conducted two work sessions with the board to review the inputs and prepared documentation, with input by the sponsoring agencies, as to how the projects in

the plan and TIP respond to the regional and federal policy questions in the Technical Inputs Solicitation.

- Staff continued developing the financial plan for the LRTP, an activity that initiated in FY 2020. Planning staff worked with other TPB staff to support the development and update the Eco Interactive database and enhance its reporting to support Visualize 2045.
- The staff developed a new website using the same URL: visualize2045.org.
- Staff supported the development of several products and activities that will inform the plan, including the TPB Resiliency Study and CAV webinars and CAV principles. Staff led activities to supplement existing performance measures with new performance measures that will help communicate about TPB priorities. Staff having been testing and drafting these measures for use the plan, presentations, or online. Staff surveyed available data to communicate about transportation equity in the TPB region.
- LRTP staff participated in the TPB Big Data study and scenario planning study and workshops, to enhance future data use and scenario planning associated with TPB LRTP planning activities.
- Given ongoing Covid-19 implications, staff that manages long-range transportation plan activities continued to work with the public participation team and determined that all public participation activities should be planned for social distancing or easily modified to be completed virtually. Staff worked with the public participation team to prepare and conduct several public opinion research and participation activities, branded as Voices of the Region. These include:
 - A region-wide survey (fall 2020) on issues relating to Covid-19 impacts, transportation enhancement preferences related to the Aspirational Initiatives, and future factors to consider in planning such as climate, connected and automated vehicles, and equity.
 - The survey was supplemented by 11 virtual (online) focus groups across a range of demographics, to gather public opinion insights on safety, climate change, and equity considerations in transportation.
- In response to TPB Resolution R10-2019 that directed staff to conduct activities related to the implementation of three of the aspirational initiatives, staff conducted work on the three initiatives as follows:
 - Staff worked with a consultant to develop a series of animated videos and infographics about the LRTP and TPB's Aspirational Initiatives. These are being use as part of the plan, it's website and communication materials, but are also being leveraged as part of a third public outreach activity, called Aspiration to Implementation which was designed to gather insights on the value the public sees in the types of projects and programs conceptualized by the Aspirational Initiatives. This activity is both an outreach activity and an implementation for the TPB' seven endorsed Aspirational Initiatives.

1.2 Federal Compliance

There were no activities this month.

FY 2021 ACCOMPLISHMENTS

- The TPB and FAMPO completed and executed the 2021 TPB/FAMPO MOU on May 19, 2021.

1.3 Policy Board-Directed Activities

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 2022 resolution, TPB staff have conducted activities to discuss how to incorporate these concepts materially.-The TPB staff conducted internal workshops to discuss examples of staff activities and have shared recent examples of best practices for considering equity and anti-racism in our work. TPB staff continue to weave equity,

as a foundational principal, through TPB's analyses, operations, procurement, programs, and priorities to ensure a more prosperous, accessible, livable, sustainable, and equitable future for all residents.

FY 2021 ACCOMPLISHMENTS

- In a virtual manner, staff attended the annual conference of the Association of Metropolitan Planning Organizations.
- Staff kicked off the plan, the TPB approved the updated technical inputs solicitation, and the staff worked closely with sponsoring agencies to update all inputs to the plan and TIP. Staff conducted two work sessions for the board on the inputs and worked with the local technical staff to respond to all regional policy questions for each project in the plan, as information for the board.
- The staff drafted a first iteration of the financial plan.
- Staff created a new Visualize2045.org website
- With public participation staff, LRTP staff conducted a survey, focus groups, and public outreach to inform and create input to Visualize 2045 update.
- A series of infographics and animated videos were produced, some videos were also in Spanish
- Staff conducted CAV webinars and a resiliency study.
- Staff conducted equity analysis and tested new performance measures for use in the LRTP.
- Staff finalized an outline and began drafting the update to the LRTP.

Task 2	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRANSPORTATION IMPROVEMENT PROGRAM	\$438,483	\$27,809	92%	33

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1 Transportation Improvement Program (TIP)

At its meeting on June 4, the TPB Steering Committee approved one resolution to amend the FY 2021-2024 TIP. The amendment, requested by VDOT, included funding for the Lee Highway Widening Phase II project and for PRTC's Preventative Maintenance Program.

TPB staff processed administrative modifications for nine projects combined under TIP Action 21-27. Four projects were modified at DDOT's request, three for VDOT, and one each for MDOT/SHA and Montgomery County.

FY 2021 ACCOMPLISHMENTS

- The FY 2021-2024 TIP was recreated within the Project InfoTrak database application. The consultant imported all LRTP and TIP records into Project InfoTrak, and TPB staff worked with staff from member agencies to pull the appropriate records forward into the FY 2021-2024 data set (21-00). TPB staff worked with the consultant to customize the formatting of the report pages for the TIP produced by Project InfoTrak since it was no longer critical to show funding for FY 2020 in the FY 2021-2024 TIP.
- Eleven TIP Actions were created in Project InfoTrak and 12 resolutions written to make amendments to 126 projects in the FY 2021-2024 TIP, including a full section update with 101 projects, requested by DDOT in September 2020. Nine TIP Actions were created in Project InfoTrak to cover administrative modifications to 90 projects
- Staff continued to work with the consultant team of EcoInteractive.

2.2 TIP Database Support

EcolInteractive continued work on customizations to the Bicycle and Pedestrian Plan module and importing and translating GIS data for projects in that module provided by TPB staff. TPB staff executed a contract to purchase five quarters of professional services from EcolInteractive to continue doing additional necessary customizations including LRTP and TIP project description form reports, a state DOT push to U.S. DOT functionality for approval of amendments, and a data import tool that would reduce the amount of data entry required by TPB member agency staff.

FY 2021 ACCOMPLISHMENTS

- The consultant, EcolInteractive, successfully completed the second year of their contract. Work in FY 2021 mostly consisted of ongoing customizations to the Project InfoTrak database application and technical “help-desk” support.
- EcolInteractive completed customizations to the following modules and reports in the Project InfoTrak application: reorganization of LRTP and TIP project description forms, including updated and new policy questions introduced by the TPB in December 2020; creation of a new “node” tool to allow for mapping of projects that are not located on already existing roadway links in the GIS data; multiple changes to the TIP Overview report; removal of a built-in protection that prevented projects that have been submitted as part of an adoption or amendment from being included in another amendment or modification (like the LRTP or TIP projects in the months-long period between the approval of project submissions and the final approval of the LRTP and TIP); development of the Bicycle and Pedestrian Plan module; creation of a “Conformity Change Narrative” that tracks changes to conformity fields just like the system tracks changes to TIP funding; development of a Congestion Management Process documentation feature.
- EcolInteractive also provided help desk support services to TPB staff and Project InfoTrak users. The consultant rapidly responded to a situation where the system failed to act as expected and inputs were only delayed by approximately one day due to that error.

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	\$2,702,916	\$312,729	80%	35

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

Staff continued work on the content and work items for PBPP for the 2022 version of the Visualize 2045 long range transportation plan. Staff continued collection of annual Transit Safety and Transit Asset Management data and information from transit agencies. Staff attended the OIPI-VDOT-DRPT-MPO Quarterly Coordination/Annual Planning and Programming Meeting.

FY 2021 ACCOMPLISHMENTS

- The TPB adopted the first round of transit safety targets in November 2020 and the fourth annual round of highway safety targets in December 2020. 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 measures and data collection as well as submission of formal reports, including the biennial MPO CMAQ Performance Plan and input to the state DOTs for the FHWA Mid-Period Performance Reports.
- Staff began work on PBPP items for the development of the 2022 version of the Visualize 2045 long range transportation plan and 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 June 17, 2021 quarterly meeting of the Vehicle Probe Data Users Group (VPDUG) was organized and conducted, discussing “Evaluating National Performance Management Research Data Set (NPMRDS) Probe Data Quality”; “COVID-19 Impacts on Mobility and Travel Demand Modeling”; “Fredericksburg Area MPO StreetLight Data Projects”; and “Near-Real Time Availability of Traffic Count Data”.

Congestion Management Process (CMP) data compilation and analysis for upcoming Quarterly Reports continued.

Staff continued to explore data availability for traffic impacts of COVID-19, as well as beginning an analysis of traffic data for the Memorial Day holiday weekend, toward future reporting.

FY 2021 ACCOMPLISHMENTS

- 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

Activities continued following the May 25, 2021 TPB Connected and Autonomous Vehicles (CAV) Webinar #4, entitled “CAV Planning Considerations – White Paper Findings and Recommendations”. Primarily, staff began development of a strawman set of TPB CAV principles toward TPB review and approval in fall 2021.

Staff undertook outreach to key stakeholders to confirm that no changes were requested in FY 2021 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 2021.

FY 2021 ACCOMPLISHMENTS

- Three (3) meetings of the Systems Performance, Operations, and Technology Subcommittee (SPOTS) were organized and conducted during FY2021 (one of those jointly with the Vehicle Probe Data Users Group), including preparation of agendas, meeting summaries, and informational materials, providing opportunities for coordination and information exchange.
- A series of regional webinars on Connected and Autonomous Vehicles continued. CAV webinars were held on October 30, 2020 and May 25, 2021. Development of TPB CAV principles began, with completion anticipated in fall 2021.

3.4 Transportation Emergency Preparedness Planning

The June 9, 2021 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.

FY 2021 ACCOMPLISHMENTS

- Eight (8) meetings of the Transportation Emergency Preparedness Committee were organized and conducted during FY2021, 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

The regularly scheduled June 8, 2021 meeting of the Transportation Safety Subcommittee was organized and conducted. The agenda included an update on FHWA's Safe Systems Approach, highlights of the initial findings from the Maryland Highway Safety Office's pedestrian-bicyclist fatality review, and an update on the Regional Roadway Safety Program.

At the regularly scheduled TPB Technical Committee meeting on June 4, 2021, staff provided a briefing that described the Regional Roadway Safety Program Selection Panel's recommendations as to which applications will be recommended to TPB for funding.

A special Technical Selection Committee reviewed and scored the 14 proposals submitted in response to the Regional Roadway Safety Program RFQ.

On June 30, 2021, staff presented on the TPB's safety target setting work and participated in a panel discussion for an FHWA PBPP Assessment Webinar.

Staff continued their review of the draft final report for the Regional Roadway Safety Study.

FY 2021 ACCOMPLISHMENTS

- The TPB adopted Resolution R3-2021 on July 22, 2020. This resolution set forth TPB's safety policy and established the Regional Roadway Safety Program to assist its member jurisdictions and the region to develop and/or implement projects, programs, or policies to equitably improve safety outcomes for all roadway users.
- The initial set of Regional Roadway Safety Program applications were submitted in March 2021 and the Technical Selection Panel submitted their recommendations for funding in May 2021. The TPB is scheduled to approve the final projects in July 2021.
- The Transportation Safety Subcommittee met six times in the 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.
- Staff managed a consultant contract with Cambridge Systematics to conduct the Regional Roadway Safety Study. In FY 2022 under this contract safety data was collected and analyzed according to TPB's Equity Emphasis Areas. A draft of the study's Final Report was provided in June of 2021 with final acceptance expected in July of 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 participated in four Washington Regional Alcohol Program (WRAP) board meetings.
- Staff led the effort to establish this year federally required PBPP regional highway safety targets. The TPB adopted these targets in December 2020.

3.6 Bicycle and Pedestrian Planning

Staff continued work to update the Bicycle and Pedestrian Plan for the National Capital Region.

For the Plan update a project map was created and an initial buffer analysis was completed to measure how it will serve the region's goals.

FY 2021 ACCOMPLISHMENTS

- Six (6) 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.
- The National Capital Trail Network map was completed and approved by the Transportation Planning Board in July 2022. An interactive version of the National Capital Trail Network map was prepared and made available to the public on COG/TPB web site.
- Project data for the components of the National Capital Trail Network uploaded into the Project Infotrak database.
- Bicycle and pedestrian projects were mapped and analyzed with respect to equity emphasis areas, activity centers, transit access focus areas and other TPB priorities.
- Bicycle and pedestrian planning technical advice was provided for the Street Smart regional pedestrian and bicyclist safety campaigns.
- A Dockless Bike and Electric Scooter Share workshop was organized and conducted on August 13, 2020. Workshop attendees included representatives from all the jurisdictions with active programs, consultants and staff from jurisdictions exploring dockless programs, and interested members of the public.
- Police and planners from around the region discussed pedestrian enforcement programs at a Best Practices in Pedestrian Enforcement workshop held on September 23, 2020.
- An FHWA Bikeway Selection Guide Training for state and/or local agencies was convened on March 30, 2021.
- Staff organized and conducted a Vision Zero Arterial Design Workshop on April 23, 2021.

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee did not meet in June.

Staff continued working with the on-call planning consultant on the white paper on transit equity analysis, reviewing the final draft and a web map deliverable. Staff worked on transit content for the 2022 version of the Visualize 2045 long range transportation plan. Staff prepared letters of support for federal grant applications by member agencies. Staff attended the monthly NVTC MAC meeting.

FY 2021 ACCOMPLISHMENTS

- The Regional Public Transportation Subcommittee (RPTS) met nine times in the year. Staff conducted meeting planning and facilitation.
- 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, which was included in various briefings to multiple audiences.
- On-call consultants delivered two significant studies during the year, the TIGER Bus Priority Meta Study and the Transit Equity White Paper, 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 on the Blue Orange Silver study and the annual bus workshop. Staff also participated in transit planning meetings in the three states, including the I-495 American Legion Bridge Transit/Transportation Demand Management Study, the Maryland Statewide Transit Plan and the MARC run-through bill, Prince William County BRT, and others, and attended federal webinars and other professional events on transit planning and performance.

- Staff completed the 2019 State of Public Transportation report and drafted the 2020 State of Public Transportation report, collecting data and preparing all information.
- Staff began work on public transportation items for the development of the 2022 version of the Visualize 2045 long range transportation plan and the FY 2023-2026 TIP, including review of transit projects submitted in response to the Technical Inputs Solicitation and the development of a BRT and Transitways infographic and video for public outreach on the Aspirational Initiatives.
- Staff prepared multiple TPB endorsement letters for federal transit grant applications by member jurisdictions and agencies.
- Staff prepared a summary report and briefing on electric transit buses in the region. Staff prepared a summary of fare relief activities in the region and nationally.

3.8 Freight Planning

Staff held planning sessions on June 9 and June 30, 2021 with the TPB Freight Subcommittee Chair to identify topics and speakers for FY2022 Freight Subcommittee meetings.

Staff continued to coordinate with Virginia OIPI on the potential for additional miles of Critical Urban Freight Corridor designations in Northern Virginia.

Staff continued work to develop an RFP for consultant assistance to update the Regional Freight Plan in FY 2022.

FY 2021 ACCOMPLISHMENTS

- The Freight Subcommittee met four 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.
- Staff provided regional input to the Maryland State Freight Plan through participation in the Maryland State Freight Advisory Committee.
- Staff provided regional input to the Maryland State Rail Plan through participation in the Maryland State Rail Plan Advisory Committee

3.9 Metropolitan Area Transportation Operations Coordination Program Planning

The Metropolitan Area Transportation Operations Coordination (MATOC) Program is an operational partnership of the region's major transportation agencies, funded outside the UPWP, but with certain planning support activities provided by TPB staff under this task.

The regularly scheduled June 18, 2021 meeting of the MATOC Steering Committee was organized and conducted by conference call, continuing discussion of communications, coordination, and Traffic Incident Management topics, as well as impacts of COVID-19, and approving the MATOC Work Plan for FY 2022 (July 1, 2021 through June 30, 2022).

The annual MATOC Transportation Operations Workshop was organized and conducted virtually on June 23 (in lieu of the originally planned in-person tabletop exercise), convening senior transportation operations personnel from DDOT, MDOT, VDOT, WMATA, the National Park Service, and other agencies; discussion focused on transportation operations impacts of the COVID-19 pandemic, and operational strategies in response.

FY 2021 ACCOMPLISHMENTS

- Support was provided for eleven (11) virtual meetings of the MATOC Steering Committee during FY 2021, including preparation of agendas, meeting summaries, and tracking of action items, helping the MATOC Steering Committee in its effective oversight of MATOC activities.
- Staff input and advice was provided via participation in approximately 27 virtual meetings or conference calls of MATOC's subcommittees and working groups during FY 2021, including on

operations, transit, information systems, and severe weather, covering both routine business and response to and recovery from transportation impacts of the COVID-19 pandemic.

- Coordination occurred throughout the year with the University of Maryland Center for Advanced Transportation Technology, which is contracted by MATOC Steering Committee members to execute the MATOC Program.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	\$1,018,896	\$73,085	100%	41

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

The TPB's Community Advisory Committee (CAC) met on June 10 for an online-only meeting. The first half of the meeting was set aside for a Visualize 2045 public forum. At this session, staff presented information on Visualize 2045 update and opportunities for the public to participate in Phase II outreach (described below).

The CAC meeting lasted one hour. During the meeting the committee was briefed on the May TPB meeting and about the materials for the June TPB meeting. The committee also discussed how committee members can promote public involvement in regional planning.

Using qualitative research software, staff finalized analysis of input from a series of 11 focus groups with randomly selected residents about key transportation challenges facing the region. The sessions, which were conducted in January and February, were focused on equity, safety and climate change. The findings from the focus groups will provide qualitative input for the update of Visualize 2045 and will complement the opinion survey that was conducted in the fall. 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. A report on this research will be released in the fall of 2021.

Staff launched Phase II outreach for Visualize 2045, which will provide open opportunities for public input. Phase I was invitation-only, focusing on public opinion research through quantitative research (opinion survey) and qualitative research (focus groups). Phase II engagement will be conducted this summer. The main activity for Phase II is the distribution of posters and signs around the region that will display QR codes, which will solicit input on the TPB's Aspirational Initiatives. In June, staff finalized work with consultants to develop the signs along and associated website, and identified more than 40 locations throughout the region where the posters and signs were posted.

FY 2021 ACCOMPLISHMENTS

- A major public opinion survey on transportation, called Voices of the Region, was conducted in the fall of 2020. Results were released in February of 2021. More than 2,400 responses were received, which greatly exceeded the target of 2,000. The responses also generally met the targets for 10 sub-regional (largely county-level) geographies. The results of the survey were presented to the TPB at its February meeting. The findings were featured in a number of media stories and will provide key input for the update of Visualize 2045, the region's long-range transportation plan.
- A series of 11 focus groups were conducted in January and February of 2021. The sessions brought together randomly selected residents to discuss key transportation challenges facing the region. The sessions, which focused on equity, safety and climate change, will provide qualitative input for the update of Visualize 2045. This input will complement the opinion survey that was conducted in the fall. Staff facilitated all the focus group sessions, took notes,

and wrote up debrief documentation. 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. A report on this research will be released in the fall of 2021.

- A campaign of open public engagement, called Aspirations to Implementation, was launched in June of 2021. Previous engagement (the 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. The results of the outreach will be compiled and presented to the TPB in the fall of 2021 and will be included in the Visualize 2045 update.
- Staff updated the TPB's Public Participation Plan, which was approved by the TPB on October 21. The plan, which is federally required, provides an overarching guide for all the TPB's public engagement activities. The plan was last updated in 2014. The new plan for the first time includes a Staff Guide that describes steps that TPB staff should consider and potentially undertake to integrate public engagement activities into the work of the department. The document also includes a Public Guide, which provides a succinct summary of how residents of the region can get involved in the TPB's work. The process for developing the plan involved extensive research and outreach.
- The TPB approved a restructuring of its Community Advisory Committee in November of 2021. The restructuring included a revision in the membership structure, change from one-year terms to a two-year terms, and a name change. Instead of Citizens Advisory Committee, the group is now called the Community Advisory Committee.

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.
- Convened 5 Access for All Committee (AFA) meetings
- Successfully transitioned chairmanship of AFA to a new TPB member.

4.2 Communications

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

- **What did the Voices of the Region say about the TPB's Aspirational Initiatives?**
June 7, 2021
- **TPB making changes to long-range plan: Adds new climate change commitments to planning process, removes I-270/I-495 toll lanes**
June 16, 2021
- **TPB moves plan update forward, removes MD toll lanes**
June 22, 2021
- **Commuter Connections honors employers for excellence and innovation in commute alternative programs**
June 29, 2021

Throughout the period, TPB staff maintained an active presence on social media.

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

FY 2021 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 50 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	\$2,986,492	\$206,751	77%	43

5. TRAVEL FORECASTING***5.1 Network Development***

In support of Gen3 Model development, staff developed the base-year (2018) highway and transit networks with four time-of-day periods. Staff subsequently updated the 2018 network database per request from the consultant (RSG), such as adding dummy stations as entry and exit points for external transit travel and converting the park-and-ride (PNR) connectors from one-way to two-way links. Staff transmitted the final 2018 network files to RSG on June 8.

Staff updated the air quality conformity project input table to include changes to transportation projects around Baltimore, Maryland and Fredericksburg, Virginia – two areas which are outside of the TPB Planning Area, but within the TPB's modeled area and which can, nonetheless, have an effect on the travel and mobile emissions associated with the TPB Planning Area. At the June meeting, the TPB approved project (network) inputs for the air quality conformity analysis of the 2022 Update to Visualize 2045, allowing staff to begin network coding activities.

Staff finalized the network database with distinguished IDs for both Public Transport (PT) and TRNBUILD networks.

Staff combined the 2018 transit files developed for the Gen3 Model, the 2019 base transit files upon which the forecast-year transit networks will be built, and the latest 2045 transit routes from the 2020 Amendment to Visualize 2045 into the current network database as a starting point for network coding for the upcoming conformity analysis. Staff modified the conformity project input table to create a text file to use as an input to the running of the PREPTIP program, which automatically updates the variables (facility type, number of lanes, completion date) for a majority of the highway project changes in the conformity project inputs. Staff ran the PREPTIP program successfully and reviewed the results.

Staff reviewed the WMATA fare changes approved by the WMATA Board of Directors on June 10th and identified changes for the fare inputs that will be reflected in the conformity analysis.

Staff continued to review the 2019 base transit files and identified errors related to connectivity to park-and-ride lots at the beginning and end of commuter bus routes.

Staff continued coding bus service updates provided as part of the transit service details for project inputs in the Long-Range Transportation Plan.

FY 2021 ACCOMPLISHMENTS

- Staff solicited and received project inputs for the air quality conformity analysis of the 2022 Update to Visualize 2045. The project inputs will be used to develop the forecast-year highway and transit networks for the conformity analysis. This work included extraction of the air quality conformity projects from the new Project InfoTrak (PIT) database and considerable back-and-forth with the implementing agencies to ensure that all project information was correct in the air quality conformity inputs table. Staff also provided feedback to the consultant working with the PIT to update some features in the export function of the database. For transit projects, staff prepared and shared a memo of detailed transit coding assumptions from the 2020 Amendment to Visualize 2045 for the purpose of having implementing agencies provide updates as input to the 2022 Update to Visualize 2045.
- Staff reviewed regional parking costs, highway tolls, and transit fares and updated those data to reflect current values as part of network development for the conformity analysis.
- Staff developed 2019 base transit network files, reflecting service current to December 2019, for use in the conformity analysis of the 2022 Update to Visualize 2045. The work involved downloading and processing 2019 base-year General Transit Feed Specification (GTFS) data for all transit providers in the modeled area. For those providers whose information is not provided in GTFS format, staff obtained transit schedule information from the internet and manually calculated average headways and run times for the peak and off-peak periods.
- Staff began coding highway and transit network updates provided as project inputs for the conformity analysis of the Long-Range Transportation Plan.
- RSG, the consultant on the Gen3 Model development project, recommended switching to Cube Public Transport (PT) for transit modeling in Gen3. The Gen2 Model, on the other hand, will likely continue to use Cube TRNBUILD. In response, network staff developed the Unified Network Database/COGTools that can support transportation networks in both TRNBUILD and PT formats during FY 21.
- In support of the development of the Gen3 Travel Model, staff produced base-year 2018 highway and transit network files in Public Transport (PT) format and transmitted them to the consultant (RSG). Staff developed technical memoranda to document this work. RSG subsequently requested three additional updates to the networks: 1) the addition of transit service reflecting two new time-of-day periods, PM peak and nighttime (in addition to the standard AM peak and mid-day service); 2) the addition of “dummy” external transit stations and links to the network to account for transit riders who begin or end their trip outside of the modeled area in the Gen3 Travel Model; and 3) the conversion of links that serve travelers going to park-and-ride (PNR) lots: from one-way (which is used for production-attraction assignment) to two-way (which is used for origin-destination assignment in PT). For each of these updates, staff post-processed the transit files and performed model runs to ensure that the network files exported from the network database in PT format run clean with the developmental Ver. 2.4_PT Model. Staff also performed Quality Assurance/Quality Conformity (QA/QC) checks on the path-tracing results associated with external transit trips by commuter rail. Staff transmitted each of the updated sets of network files to RSG.
- Staff developed the PT fare specifications for the transit operators in the metropolitan Washington region. Staff prepared 2007, 2014 and 2018 fare inputs in PT format for various modeling exercises and conducted extensive Quality Assurance/Quality Control (QA/QC).
- To support model calibration and validation of the developmental Gen3 Travel Model, staff collected 2018 traffic count data (daily and hourly) and transmitted the data to the consultant (RSG), along with two memos, dated June 21.
- Throughout the year, staff responded to questions from consultants and state and local agencies regarding various aspects of network coding conventions in the TPB regional networks.

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 21 meeting and began developing the agenda for the July 16 meeting.

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

After the final 2018 daily and hourly traffic count data became available, staff conducted the 2018 highway validation of the Version 2.4 Travel Model. Staff started to document the 2018 transit and highway validation of the Ver. 2.4 Model in a technical memorandum.

In preparation for the upcoming Air Quality Conformity (AQC) analysis for the 2022 Update of Visualize 2045, staff processed the Round 9.2 Cooperative Forecasts of Land Use data and updated the exogenous trip files and other model files (e.g., CPI File) for the Ver. 2.4 Model. Staff created three technical memoranda, dated June 7, June 21, and June 21, respectively, documenting this work.

To provide benchmarks for the Gen3 Model Development, staff prepared year 2018 daily and period traffic count data and conducted the 2018 highway validation of the Ver. 2.4 Model. Staff is in the process of summarizing validation statistics and will document the 2018 transit and highway validation results in a memo.

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

Staff developed a draft technical memorandum, dated June 28, to document the recent model development activities associated with the Ver. 2.4_PT Model.

Developmental, travel demand forecasting model: Generation 3

Regarding the consultant-assisted project to develop the next-generation travel demand forecasting model, known as the Gen3 Model:

- Staff held two check-in meetings with RSG and BMG, the consultants on the Gen3 Model development project (June 3 and 17).
- In support of the Gen3 Model data needs as outlined in an RSG memo (last updated December 1, 2020), staff collected and processed some data items. Specifically,
 - The Planning Data and Research (PDR) Team staff completed the compilation of the 2018 daily and hourly traffic count data and created two memos documenting these data sets. The Travel Forecasting and Emissions Analysis (TFEA) Team staff reviewed the count files and the accompanying memos, processed, and cleaned year 2018 daily and hourly traffic count data, and prepared another memo documenting the procedures and findings. TFEA staff transmitted the final 2018 count data as well as the three memos to RSG on June 22.
 - The PDR Team, the TFEA Team, and RSG met on June 29 on the additional geocoding of the Active Park/Open Space data needed for the Gen3 Model development.
- When reviewing the setup of the MWCOG Population Synthesizer software, staff raised concerns over the potential political sensitivity associated with the base-year validation performance of race-related control variables, which are being included in the model with the hopes of improving equity analyses. RSG shared the updated validation results after implementing proposed solutions on June 3. Staff responded to RSG on June 8 approving the validation results from one of the recommended solutions. The setup of the MWCOG Population Synthesizer is now considered finalized.

- Staff finalized the reweighting of the 2017-2018 Regional Travel Survey/2018-2019 Maryland Travel Survey (RTS/MTS) data for Gen3 Model Phase 1 Development. Specifically,
 - Staff conducted the final round of the reweighting with the PUMA consolidation recommended by the PDR team.
 - Staff shared the final reweighting results with the PDR team and RSG. With their concurrences, the reweighting program is now considered finalized for Phase 1.
 - Staff started to document the work activities associated with the reweighting process in a memo.
 - RSG may consider addressing the trip under-reporting issue in the RTS/MTS data through the reweighting process in Phase 2.
- Staff created a GitHub repository (repo) for RSG to upload the script files of the ABM Visualizer and plan to open issues regarding potential improvements on the visualizer.

Other activities

Staff serviced seven data requests: Two requests were from a state department of transportation (VDOT). Two were from local agencies (Fairfax Co. DOT and Prince William Co. DOT). Two requests were from consultants working for VDOT, MDOT SHA, Montgomery County, the District of Columbia, and other jurisdictions. One request was from an academic. The requested data include the Ver. 2.4 Travel Model, year 2019 and 2045 loaded links highway network files, year 2021 highway and transit skim files from the Version 2.4 Travel Model.

Staff updated a memo, dated June 6, regarding guidelines on GitHub modeling repositories at COG and started to prepare presentation slides for an internal Git/GitHub training.

Staff developed a memorandum, dated June 15, that explains what induced demand is and how it is accounted for in the TPB regional travel demand models. Staff shared the memo with COG management.

Staff developed a memo, dated June 25, with proposed guidelines on how to create an MS OneDrive link for data sharing.

Staff attended the COG/TPB staff listening circle on racial equity on June 23.

Staff attended netFORUM and iDev training on June 23. Staff attended a webinar on COG's Big Data demonstration study on June 24.

Staff attended an ActivitySim Consortium technical meeting on June 29 and filled out an agency requirement survey on behalf of COG regarding visualization in ActivitySim.

Per request from the PDR Team, staff performed review of the COG response to the RTS stakeholder questions. A presentation by the PDR Team is planned for the July TFS meeting.

Staff participated in the American Society of Civil Engineers (ASCE) Conference (virtual), June 8 – 10, and presented the following poster, “A Machine Learning based Sketch Planning Model for Emission Prediction.”

FY 2021 ACCOMPLISHMENTS

- Staff provided briefings to the TPB and other relevant committees on findings of the sensitivity test conducted for VDOT to determine if minor modifications to the I-495 NEXT (Beltway Express Lanes) project would change the outcome of the air quality conformity analysis of the 2020 Amendment to Visualize 2045.
- In an activity that spanned most of the fiscal year, and which will continue into FY 2022, staff began to conduct tasks related to the 2022 Update to Visualize 2045 air quality conformity analysis. Staff developed the Technical Inputs Solicitation Document and shared a technical memorandum of detailed transit coding assumptions from the 2020 Amendment to Visualize 2045 with TPB Technical Committee as a starting point for implementing agencies to provide updates as input to the 2022 Update to Visualize 2045.

- Using the information provided by the implementing agencies in the Project InfoTrack database management system (DBMS), staff developed the air quality conformity inputs table, identifying new projects and changes to existing projects for the 2022 Update to Visualize 2045. Staff also developed the air quality conformity scope of work, which, along with the conformity inputs, was approved by the TPB in June 2021.
- In preparation for the 2022 Update to Visualize 2045, staff tracked regulatory and other developments, including the revisions that occurred due to the new presidential administration (Biden). The following areas were tracked: the ozone and fine particles National Ambient Air Quality Standards (NAAQS) review (and retention of current standards), the Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule, the Clean Air Act Cost/Benefit Rule, the EPA Vehicle and Engine Tampering Policy, the National Highway Traffic Safety Administration's (NHTSA) delay of fines for auto manufactures who fail to comply with fuel economy standards, and the American Lung Association report on air quality.
- Staff reviewed an EPA notice in the Federal Register about catalytic converters and assisted with the development of a joint TPB/Metropolitan Washington Air Quality Committee (MWAQC) comment letter to EPA regarding a still-in-place 1986 policy about replacement of catalytic converters.
- As part of outreach and consultation, staff regularly prepared the monthly consultation mailout, and a comprehensive technical memorandum and presentation on Air Quality 101. The report and the presentation discussed the air quality conformity and state implementation planning processes, which were shared with the TPB Technical Committee in May 2021.

Task 6	Budget	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$1,810,592	\$153,390	91%	45

6. MOBILE EMISSIONS PLANNING

6.1 Air Quality Conformity

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

TPB staff worked with the Department of Environmental Programs (DEP) staff to request MOVES2014b inputs for milestone years 2021, 2023, 2024, 2025, 2030, 2040, and 2045 for the air quality conformity analysis of the 2022 Update to Visualize 2045 from the three state air agencies.

TPB adopted Resolution R19-2021 to approve the project submissions for inclusion in, and the scope of work for, the Air Quality Conformity Analysis for the 2022 Update to Visualize 2045 and the FY 2023-2026 TIP (item #7). The resolution also calls for initiation of the subsequent update of the Visualize 2045 Long-Range Transportation Plan with a target completion date of 2024, based on the concept of "zero-based budgeting" that considers greenhouse gas reduction targets and scenario analysis to inform the development of the 2024 and future updates of the Long-Range Transportation Plan. Following the board action, staff developed a task schedule chart and began highway and transit network coding for the 2022 Update to Visualize 2045.

Staff continued to participate in the Scenario Planning Project Oversight Committee and provide feedback to the study team. Specifically, staff attended the second of two scenario planning workshops that focused on scenario planning tools used by TPB's Metropolitan Planning Organization (MPO) peers.

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 2021 ACCOMPLISHMENTS

- Staff provided briefings to the TPB and other relevant committees on findings of the sensitivity test conducted for VDOT to determine if minor modifications to the I-495 NEXT (Beltway Express Lanes) project would change the outcome of the air quality conformity analysis of the 2020 Amendment to Visualize 2045.
- In an activity that spanned most of the fiscal year, and which will continue into FY 2022, staff began to conduct tasks related to the 2022 Update to Visualize 2045 air quality conformity analysis. Staff developed the Technical Inputs Solicitation Document and shared a technical memorandum of detailed transit coding assumptions from the 2020 Amendment to Visualize 2045 with TPB Technical Committee as a starting point for implementing agencies to provide updates as input to the 2022 Update to Visualize 2045.
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- As part of outreach and consultation, staff regularly prepared the monthly consultation mailout, and a comprehensive technical memorandum and presentation on Air Quality 101. The report and the presentation discussed the air quality conformity and state implementation planning processes, which were shared with the TPB Technical Committee in May 2021.

6.2 Mobile Emissions Analysis

Staff continued to conduct activities related to the TPB Climate Change Mitigation Study of 2021 (CCMS). TPB staff continued conducting bimonthly meetings with the project consultant (ICF) regarding Phase II of the study, which will attempt to answer what it would take to reduce the on-road transportation-sector greenhouse gas emissions by 50% below 2005 levels by 2030. In response to TPB staff feedback, the project consultant provided TPB staff with a draft executive summary to accompany the full report containing a review of climate action plans and literature on mitigation strategies and their effectiveness, which is the first major Phase II deliverable. TPB staff reviewed both the draft report and the executive summary and provided feedback to the consultant. The consultant briefed the TPB Technical Committee on the Phase II Literature Review findings. The full report with the executive summary will be released to the TPB Technical Committee and the TPB in July.

Department of Environmental Programs (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). DEP staff continued to facilitate discussions with the Metropolitan Washington Air Quality Committee – Technical Advisory Committee (MWAQC-TAC) members regarding the process (item #3). Specifically, the committee was briefed on the list of questions sent to the Environmental Protection Agency (EPA) regarding RFP and attainment SIPs, and the schedule for development of control measures. MWAQC-TAC was also provided with an update on the current ozone season, at which COG staff noted that four ozone exceedances had been recorded by early June, which could make it more challenging to attain the 2015 ozone NAAQS (item #2).

TPB and DEP staff worked on the development of local inputs for Alternate Vehicle and Fuel Technology (AVFT) file for use in MOVES runs for the conformity analysis and/or future SIPs.

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.

TPB and DEP staff, and COG executive office representatives, coordinated activities with our members regarding the Transportation and Climate Initiative (TCI), which is a regional collaboration of 13 Northeast, Mid-Atlantic, and Southeast states and the District of Columbia that seeks to reduce carbon emissions from the transportation sector. Staff attended a TCI webinar on June 10, where TCI announced the release of five documents: (1) the model rule for the Transportation and Climate Initiative Program (TCI-P), (2) a summary of public input received since the draft model rule was released in March, (3) the Draft Framework for Public Engagement (Guiding Principles), (4) the Draft TCI-P Model Implementation Plan, and (5) the Draft Proposed Strategies for Regional Coordination. Public input on the three draft documents is requested by August 13, 2021.

TPB staff continued with the vehicle registration/vehicle identification number (VIN) decoding process using the software obtained from ESP Data Solutions and the 2020 registration dataset provided to COG/TPB by the three state air agencies in February 2021. This dataset will be used in the upcoming 2022 Update to Visualize 2045 air quality conformity analysis.

DEP staff discussed with the photochemical modeling group the possibility of including MOVES3 on-road emissions in the model for the 2015 ozone National Ambient Air Quality Standards (NAAQS) SIP. DTP staff also kept up to date with Ozone Transport Commission (OTC) modeling activities as part of the photochemical modeling exercise for the ozone standard.

TPB staff attended the 2021 Transportation Research Board (TRB) Transportation Planning Applications Conferences (AppCon), which was held virtually, where Daniel Son of TPB staff presented findings of testing conducted using machine learning to estimate mobile emissions ("A Machine Learning based Sketch Planning Model for Emission Prediction").

TPB staff also continued to conduct MOVES model tests to further refine greenhouse gas emissions modeling estimates for future studies. Staff also continued to explore different ways to model criteria pollutant emissions both to maintain consistency with the recently released Version 2.4 Travel Demand Model and to introduce innovative new processes (e.g., machine learning).

FY 2021 ACCOMPLISHMENTS

- TPB affirmed regional climate mitigation and resiliency goals (R8-2021) in October 2020, which were first approved by the COG Board of Directors (R45-2020). The goals include reducing the 2030 greenhouse gas (GHG) emissions by 50 percent below 2005 levels and establishment of climate resiliency goals. On October 21, 2020, prior to the October 2020 TPB meeting, TPB staff hosted a work session on climate, which included briefings on the 2030 Regional Climate and Energy Action Plan (CEAP) and the interim 2030 GHG reduction goal, State DOT Perspective, and the Transportation and Climate Initiative (TCI).
- DTP staff worked closely with DEP staff on development of the 2030 Climate and Energy Action Plan (CEAP). The plan was finalized and adopted at the November 18, 2020 Climate, Energy and Environment Policy Committee (CEEPC) meeting.
- DTP management and staff, along with DEP staff and COG's executive office representatives, continued to coordinate efforts with our members, other regional councils (COGs), and metropolitan planning organizations (MPOs) regarding the Transportation and Climate Initiative (TCI). TCI is a regional collaboration of Mid-Atlantic, Northeast, and Southeast states (including the District of Columbia, Maryland, and Virginia) that has the goal of reducing the transportation sector GHG emissions through development of cleaner transportation systems. DTP staff regularly attended webinars offered by TCI and kept the TPB informed about new TCI-related developments, which included development of the Memorandum of Understanding (signed by the District of Columbia, Massachusetts, Connecticut, and Rhode Island) and establishment of the TCI-Program (TCI-P), Draft Model Rule, and an Update on Public Engagement Planning.

- DTP staff worked closely with members to initiate the Climate Change Mitigation Study of 2021 (CCMS), which consists of two phases:
 - Phase I: Review of Past COG and TPB studies related to climate change.¹
 - Phase II: Scenario Study: What would it take to reduce transportation sector greenhouse gas emissions to meet regional greenhouse gas reduction goals for 2030 and 2050? (to be completed by a consultant, in progress)
- DTP staff worked with the project consultant (ICF) to create the scope of work for the CCMS, completed and shared the Phase I Literature Review with the TPB, and regularly provided feedback to the consultant regarding the Phase II activities, which will be completed in FY 2022. The Phase II findings are expected to recommend climate mitigation strategies to inform the development of the 2022 Update of Visualize 2045.
- DTP staff continued to work closely with DEP staff 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). Staff participated in discussions regarding the planning implications of the 2021 ozone season 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	\$1,658,395	\$135,555	92%	47

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Travel Surveys

Staff conducted the following activities in June 2021:

- Finalized draft responses for the RTS Stakeholder Questions project.
- Developed a timeline for sharing results from the RTS Stakeholder Questions project in a series of presentations.
- Fielded RTS data requests from stakeholders.
- Provided input on including bicycle and pedestrian trip numbers from the RTS into TPB's bicycle and pedestrian plan.
- Performed analysis to geocode household and trip records to BMC TAZs at the request of BMC.
- COG/TPB staff provided input on the sharing of jurisdiction-level data from the Voices of the Region Survey.
- Reviewed and provided comments on the Final Report from the Regional Air Passenger Survey Response Rate and Quality Study.
- Participated in biweekly meetings with the Gen3 Model Development Team.
- Provided input on the updated reweighting results using PopulationSim for the Gen3 Model.
- Developed a proposal to conduct data processing for the RTS Follow-On Smartphone Panel Survey (SPS).
- Drafted a memo summarizing key transportation surveys focusing on the travel behavior impacts of COVID-19 that inform regional transportation planning.

• ¹ Erin Morrow, Dusan Vuksan, and Mark S. Moran, "TPB Climate Change Mitigation Study of 2021, Phase 1 Report: Greenhouse Gas Emissions Reductions Strategies: Findings from Past Studies" (Metropolitan Washington Council of Governments, National Capital Region Transportation Planning Board, March 2, 2021), <https://www.mwcog.org/file.aspx?&A=MiD6Ji82bKyfKHZzxf4NWsf6lDtx%2bOIVznGk7eZoe1E%3d>.

FY 2021 ACCOMPLISHMENTS

- The data processing of the 2017/2018 Regional Travel Survey (RTS), the once a decade household travel survey for the National Capital Region, was completed in early FY 2021. The RTS data is the primary input for COG/TPB's regional transportation demand model and staff conducted validation checks in addition to combining data from the 2018/2019 Maryland Travel Survey (MTS) for three overlapping counties that are part of the Baltimore Metropolitan Council (BMC). TPB staff conducted tabulations of the RTS data files for the TPB Planning Region which were shared in a series of presentations to the TPB Travel Forecasting Subcommittee, TPB Technical Committee, and the Transportation Planning Board from September 2020 to March 2021. Staff also prepared the RTS public data files which was released in January 2021, providing a resource to regional stakeholders, practitioners, and researchers. Staff delivered a series of announcements on RTS resources (e.g., Technical Documentation, RTDC RTS Tabulations, and the RTS Public File) to various TPB committees and subcommittees.
- 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. This analysis project was largely completed by the end of FY 2021 and the results will be shared on the RTS web page and in a series of committee briefings.

7.2 Traffic Analysis Studies, and Research**Transportation Impacts of the COVID-19 Pandemic**

Staff continued to coordinate with other key organizational technical staff to prepare an examination of COVID-related regional impacts from a multisectoral perspective, including the transportation sector to better understand and describe the impacts to the region's transportation system from a broad context. Staff updated presentation slides with the latest information. Staff began preparing a COVID-related impact briefing for the COG Board of Directors at its 2021 Leadership Retreat scheduled for July.

COVID-19 Travel Monitoring Snapshots

Staff began processing and analyzing the March through May 2021 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.

Arlington Continuous Count Stations

Staff finalized a report on historical non-motorized counts at continuous count stations on trails and bike lanes in Arlington County. The report will serve to identify inconsistencies in the data and to better understand how the pandemic is affecting non-motorized travel when compared with previous years.

RTS Stakeholder Question Project

Staff organized and conducted an internal review of the RTS Stakeholder Questions. Following the review, staff updated the responses and began to schedule presentations about the project.

Big Data in Regional Travel and Mobility Analyses

The consultant delivered the revised Final report in June. The project manager reviewed the final report and accepted it, signaling the conclusion of the project.

The Project Manager and Consultant organized and held a demonstration of StreetLight and Replica software for staff directors and program managers who may have future needs to apply big data in future projects.

Transportation Data Dashboard

Staff completed development of a transportation-related data dashboard to serve as a first-cut demonstration of the concept. Staff gave a demonstration of the dashboard application at the June TPB Technical Committee meeting.

FY 2021 ACCOMPLISHMENTS

- Staff tracked, synthesized, and delivered presentations on COVID-related transportation impacts in the region at the national conference of the American Planning Association and to Fairfax County's Reston Task Force as part of the County's small area plan update.
- Staff produced a COVID-19 Travel Monitoring Snapshot which reports how travel volumes have changed throughout the pandemic. The snapshots created from this analysis are available on the COG website and these data have been referenced by multiple news outlets.
- Staff developed an analysis of historical continuous non-motorized data from Arlington County continuous counting stations.
- Staff developed a series of papers providing an in-depth analysis of aspects of the Regional Travel Survey (RTS) based on questions posed by stakeholders.
- The Big Data project manager and consultant facilitated meetings with the COG/TPB directors, program managers, potential Big Data users. The consultant updated the final report with additional Big Data Source, findings from the meetings, and recommendations for an actionable path toward Big Data procurement for COG/TPB.
- Staff completed development of a transportation-related data dashboard to serve as a first-cut demonstration of the concept. Staff gave a demonstration of the dashboard application at the June TPB Technical Committee meeting.
- Staff served as a resource for ongoing questions and interest in MARC-VRE Run Through Service

7.3 Regional Transportation Data Clearinghouse

Staff created a basic ArcGIS Online (AGOL) web map of the Metropolitan Statistical Area (MSA) of the National Capital Region at the request of the Transportation Operations Programs Program Director.

Staff responded to several data requests providing annualized and hourly traffic data to staff from Jacobs, Worley/Advisian, and Transurban.

Staff participated in meetings and email exchanges with the Travel Forecasting and Emissions Analysis Program team and their contractor, RSG, to report on traffic data for Gen3 Model development.

Staff completed migrating ArcGIS Online (AGOL) content to a new ArcGIS Server.

Staff finalized the hourly traffic volume and classification data by network link for 2018 and updated the 2016 and 2017 hourly files with the new station to network AB pairs. Staff produced files by state and year for Gen3 model development and the RTDC. In addition, staff produced vehicle classification time-of-day summary files as well as hourly classification summary files for use in the clearinghouse.

Staff prepared two memos, one to document the process by which traffic data were assigned to screenline links, and one to document the hourly volume and classification process and resulting data files.

After TFEA team review of the screenline traffic data and 2018 hourly traffic volume files, staff explained the outlier traffic volumes that the TFEA team identified and removed unneeded records.

Staff obtained the 2019 HPMS geodatabases including all pavement attributes from FHWA.

FY 2021 ACCOMPLISHMENTS

- Staff gave an overview and demonstration of the RTDC at the Cooperative Forecasting & Data Subcommittee held on March 9, 2020.
- Staff assigned annualized 2018 traffic volumes and related HPMS items to network links to support the Gen3 Model development process. This included: adding 2018 volumes to all links where previous or new counting stations exist, adding previous years' volumes to links with newly identified stations, assigning volumes to screenline links where stations do not exist, and reassigning separate HOV and LOV stations where available. This file was used to populate the Traffic Volumes by Link RTDC layer.
- Staff analyzed 2017 thru 2019 traffic data collected at Continuous Count Stations (CCS) in the District of Columbia and compared the 2018 AADT vs. AAWDT estimates provided by VDOT and MDSHA to develop a factor to be used to estimate AAWDT in areas where only AADT is given.
- Staff produced detailed 2018 hourly directional volume and classification files by network AB pair as well as summarized classification files for use with the RTDC.
- Staff updated the RTDC VMT files to include 2019 data. During this process, staff identified issues with some of the input data and contacted the issuing agencies for explanations and updates.
- Staff continued to update the standard datasets available in the RTDC. Data updated included: transit counts (average weekday ridership by month, traffic counting station locations including 2018 and 2019 AADT, external station 2018 and 2019 AADT/AAWDT).
- Staff continued to respond to inquiries and questions regarding data available in the RTDC from COG/TPB staff, state and local partners, and consultants.
- Staff arranged for FHWA to conduct training on Functional Classification and Urban Area Boundaries for COG/TPB staff.
- 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.
- 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 updated the VMT trends spreadsheet with 2019 values and prepared related RTDC files.
- Staff created regional bus stop and route datasets based on GTFS data obtained from the Northern Virginia Transportation Commission (NVTC) as well as the Models Development team.
- Staff participated in a meeting with staff from the Travel Forecasting and Emissions Analysis program regarding transit network data available in the RTDC. Staff discussed current ridership data, potential new data sources and data hosting capabilities and options, on December 14, 2020.
- Staff added the following Regional Travel Survey (RTS) datasets to the RTDC: Regional Travel Survey (RTS) Tabulations, and Regional Travel Survey (RTS) Technical Documentation.
- Staff reorganized RTDC content items in ArcGIS Online (AGOL) and assigned datasets to new accounts to better align with RTDC maintenance and administrative responsibilities.
- Staff worked on migrating ArcGIS Online (AGOL) content to a new ArcGIS Server.

7.4 GIS Data, and Analysis

Staff began to plan the July GIS Committee/GDX Working Group virtual meeting.

Staff participated in the June 23 meeting of the Food Resource Mapping Initiative.

Staff was invited to and participated in a peer exchange on GIS and Equity peer exchange hosted by the Federal Highway Administration (FHWA) and the Association of Metropolitan Planning Organizations (AMPO) on June 22-23.

Staff attended the second (of a two part) Scenario Planning Workshop on June 8.

Staff attended the May meeting of the Cooperative Forecasting and Data Subcommittee held on June 8.

Staff attended the Big Data (StreetLight & Replica) Demonstration held for TPB/COG staff on June 24.

Staff began work to support the COG Board Retreat. Staff met with fellow staff to develop and refine data requirements and products for the retreat. Staff assembled relevant data (Equity Emphasis Areas, American Community Survey (ACS) and safety) and develop geospatial products to be used during the retreat. This work is ongoing.

Staff met with Public Engagement staff to discuss requirements for developing a Story Map for the 'Voice of the Region' Survey.

Staff continued to attend and participate in Visualize 2045 activities, hosted by the DTP Plan Development and Coordination Team,

FY 2021 ACCOMPLISHMENTS

- Staff attended the Esri International User Conference, Towson University GIS Conference (tuGIS), and regularly attended meetings of the Maryland State Geographic Information Committee (MSGIC) throughout the year.
- Staff attended the Safe Walking Summit hosted by the Northern Virginia Regional Commission (NVRC) on August 19
- Staff planned and hosted six joint meetings of the GIS Committee and NCRGDX Working Group in June, September, and November, and November 2020, and January, March, and May 2021.
- Staff attended meetings of the Cooperative Forecasting and Data Subcommittee, the Chief Information Officers Committee (CIO) and the CAD2GIS Working Group, Systems Performance, Operations and Technology Subcommittee (SPOTS) and Vehicle Probe Data Users Group (VPDUG), Bicycle and Pedestrian Subcommittee and other COG/TPB committees throughout the year as required.
- Staff, along with the Planning Data and Research program director, gave a presentation on the High Capacity Transit (HCT) Station web map application at the Montgomery Planning Research and Strategic Projects Staff Meeting on December 9, 2020.
- Staff planned and hosted the annual TPB/COG GIS Day program on November 19, 2020. The event, held virtually this year, was attended by several organizational staff, including senior management.
- Staff gave a briefing on the map development and reported findings from the data analysis at the March 16, 2021 meeting of the Bicycle and Pedestrian Subcommittee.
- Staff led a discussion regarding Story Map possibilities for the 2019 Washington-Baltimore Regional Air Passenger Survey, including content from both the General Findings Report and the Geographic Findings Report, at the January 28, 2021 meeting of the Aviation Technical Subcommittee.
- Staff finalized the web mapping application for the Transited Oriented Communities (TOC) project. The application was presented to the TPB Technical Committee on October 2, 2020 and at the TPB meeting held on October 21, 2020. The application is available on the COG website at <https://www.mwcog.org/maps/map-listing/high-capacity-transit-hct-station-areas/>.
- Staff completed work on an interactive mapping tool support the October 23, 2020 meeting of the Regional Elected Leaders Initiative (RELI) of Northern Virginia. The application "Northern Virginia Equity Areas" was presented at the meeting and is also available on the COG website at <https://www.mwcog.org/maps/map-listing/nova-equity-areas/>.
- Staff continued to support efforts to update the TPB Regional Bicycle and Pedestrian Plan. Staff completed the data acquisition for the regional bicycle and pedestrian plan. Staff provided geospatial and tabular data files to TPB's consultant (EcoInteractive). Staff developed the final draft version of the National Capital Trail Network and updated the web mapping application. Staff created a draft map of bicycle and pedestrian projects in TPB's Project InfoTrak (PIT) database. Staff performed buffer analysis on projects in the draft bicycle and pedestrian database in proximity to TPB's Equity Emphasis Areas and COG's Regional Activity Centers.

- Staff developed web mapping applications in support of the Transited Oriented Communities (TOC) project. Staff associated Cooperative Forecast data to the High Capacity Transit (HCT) stations and created datasets of summarized data by HCT station area and jurisdiction. Staff also associated CoStar data of commercial construction to the HCT stations (by TAZ) and created summarized data by station area and jurisdiction. Staff prepared additional statistical analysis that summarizes the total population and jobs in the TAFA station access areas and the National Capital Trail Network (NCTN) to be used in the COG Board presentation given by DTP's Director.
- Staff participated in a Safety Data Training meeting, hosted by TPB's consultant Cambridge Systematics (CS). Staff learned about the methods used by CS to develop TPB's crash database files and discussed future updates of the data.
- Staff continued to research to develop guidelines on how to better incorporate accessibility considerations into spatial data products. Staff completed draft materials identifying colors that are colorblind-friendly to use when developing online and static map content.
- Staff attended two training sessions hosted by the Functional Classification: Urban Area Boundary Training, and the webinar "Using GIS for Data Dashboards: Oregon Transportation Safety Data Explorer (OTSDE)."
- Staff attended and participated in a meeting with fellow DTP staff regarding Big Data options and strategies, on February 3, 2021
- Staff transmitted a geodatabase, Excel workbook and memorandum to TPB's consultant (RSG) working on the Gen3travel model. These deliverables contain and explain the spatial data on parks and other open space to be used in the development of the Gen3 model.
- At the request of COG's Public Safety and Health Preparedness chief, staff produced an interactive web mapping application showing regional COVID-19 mass vaccination sites in March 2021.
- Staff created a web mapping application for the new and major projects of Visualize 2045 (<https://www.mwcog.org/maps/map-listing/visualize-2045-new-and-major-projects-map/>). Staff incorporated the new project profiles into the application and worked cooperatively with DTP Plan Development and Coordination staff to make sure all materials were consistent across platforms.
- Staff continued to support Commuter Connections staff with updating the Bike to Work Day web map used on COG's Bike to Work Day (BTWD) website (<https://www.biketoworkdaymetrodc.org>). Staff processed changes as they were received.
- Working with staff from COG's Environmental Programs and Homeland Security and Public Safety Departments, staff continued to organize an initiative to use the NCR/GDX to develop a regional food availability database for mapping food assistance locations in the region. Staff finalized the results of a food availability mapping survey sent to stakeholders in late FY2020. Staff participated in Food Resource Mapping Initiative meetings throughout the year.

SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING	\$1,470,943	\$174,632	74%	51
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8. SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING

8.1 Scenario Planning

The consultant and the project manager prepared for the Scenario Planning Tools Workshop. The project manager reviewed and commented on the annotated agenda for the workshop. The consultant and project manager rehearsed the workshop.

The Scenario Planning Tools Workshop was conducted.

The consultant prepared a summary of the Scenario Planning Tools Workshop and the Project Manager reviewed and edited it.

The consultant submitted the final report; the Project Manager reviewed and edited it before accepting it. Staff also reviewed and approved the consultant's invoice for work performed in May.

FY 2021 ACCOMPLISHMENTS

With input and guidance from the Project Manager and Oversight Committee, the consultant:

- Produced three white papers on scenario planning were prepared: Overview of Scenario Planning, Scenario Planning Practices Among Peer, and Scenario Planning Tools
- Developed an organizational definition of scenario planning
- Delivered a two-part workshop on scenario planning
- Developed two summaries documenting each workshop
- Produced a final report for the project

8.2 Socioeconomic Forecasting

Review of initial draft Round 9.2 Cooperative Forecasts

The Cooperative Forecasting Subcommittee and the Planning Directors Committee both approved the draft Round 9.2 Forecasts at their respective meetings for use by the TPB in the upcoming Air Quality Conformity Analysis. During June DCPS staff completed work on the "Baseline Employment" memo to support Cooperative Forecasting and presented the final draft to the Cooperative Forecasting Subcommittee.

In preparation for the July COG Leadership retreat, staff began 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.

COVID-related impacts to the economy

To assist with the COG-wide multi-sector analysis of COVID impacts, DCPS staff continued to update the PowerPoint presentation that documents the effects to date of COVID on the region's economy. For the June Planning Directors meeting, Prince William County Planning Director Parag Agrawal hosted a panel discussion focused on the changing nature of retail.

Housing Targets update

The May 19 meeting of the Housing Directors Advisory Committee (HDAC) was focused on support for COG Board Members in meeting regional housing targets.

FY 2021 ACCOMPLISHMENTS

Throughout FY2021, DCPS work to support Demographic Forecasting focused primarily on 3 areas:

- Monitoring the impact of COVID-19 on the region's economic and housing markets, which could have implications on progress made toward the housing targets as well as impacts on the region's transportation system. DCPS staff tracked economic data points on housing production, job change, unemployment, and commercial real estate vacancy. These data were incorporated into the COG-wide COVID impacts analysis PowerPoint that DTP staff presented to the TPB in February and DCPS Director presented to the COG Board in March.
- Working with local government Cooperative Forecasting Subcommittee members and coordinating with adjacent regional agencies to develop the Round 9.2 Cooperative Forecasts. Ten COG member jurisdictions elected to update their forecasts, approved by the Planning Directors in December 2021 for use by the TPB in the Air Quality Conformity Analysis of the constrained element of Visualize 2045. DCPS staff compiled and quality controlled the database and transmitted the file to DTP staff during April.

- Supporting the development and advancing the regional housing targets adopted in September 2019. DCPS staff continued to monitor housing production as part of ongoing efforts to monitor the regional economy and COVID economic impacts. Staff presented an analysis of the annual and monthly trends to the Cooperative Forecasting Subcommittee, Planning Directors and Housing Directors. In addition, monitoring COVID impacts to the housing markets, DCPS housing staff continued to press for tools, strategies and resources to support affordable housing preservation and production. DCPS staff through the Housing Leaders Group of Greater Washington hosted quarterly meetings to address those needs, including the November 2019 roll-out of “A New Narrative for Housing: Playbook for the Greater Washington Region” by Dr Tiffany Manuel.

In addition, other key DCPS accomplishments during FY2021 included

- Beginning in January, working with the region’s Planning Directors to plan monthly CY2021 topical meetings focused on potential post-COVID impacts on commuting and telework; office demand; retail space; housing, and regional economic competitiveness. The results of these panel presentations and deliberations will be summarized and presented to appropriate technical and policy committees during FY2022. The deliberations will help form the foundation for the next major update to the Cooperative Forecasts: Round 10
- Continuing to monitor the overall economy, producing 12 monthly Regional Economic Monitoring System (REMS) reports. Many of these data points were also incorporated into the ongoing COVID impacts PowerPoint and presentations.
- Acquiring and analyzing InfoGroup 2020 employment establishment data files for March and September. A final regional InfoGroup database will be distributed to Cooperative Forecasting Subcommittee members for use as the Round 10 employment base.
- Preparing the 2019 Multi-family Housing and 2019 Commercial Construction Indicators reports. Both reports support assessing progress for Region Forward Goals and the COG Board Housing Targets and can be the basis for local governments to use in development of their Cooperative Forecasts.
- Preparing the Cooperative Forecasting Baseline Employment guidance memo for 2019.
- Working with DTP staff and the Executive Office to prepare for the 2021 COG Annual retreat, focused on optimizing High-Capacity Transit station areas and Equity Emphasis areas
- Preparing for analyzing Census 2020 data by hosting training opportunities for member jurisdictions

DTP staff conducted the following activities:

- Supported the Executive Office with coordination with Connected DMV and its Strategic Renewal Taskforce between July and September
- Reviewed and conducted DTP checks on Round 9.2
- Updated the Employment Definition Adjustment Factors
- Supported development of spatial data and tabulation about high-capacity transit and safety data for the Board retreat

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	\$624,450	\$124,522	85%	55

9. MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

Staff finalized the application for the 2021 Enhanced Mobility solicitation, scheduled to open July 1.

On June 3, June 22, and June 24 staff held virtual preapplication conferences for the 2021 Enhanced Mobility solicitation.

Staff managed the solicitation for ARPA funding, which closed on June 21, and began preparations for selection committee to convene in early July.

FY 2021 ACCOMPLISHMENTS

- Compiled and shared details about the impacts of COVID-19 on Enhanced Mobility projects with TPB staff, AFA, TPB Technical Committee, and TPB
- Facilitated CRRSAA Solicitation and project selection
 - o Developed eligibility and selection criteria
 - o Publicized to existing and recent subrecipients, AFA, TPB Technical Committee, TPB
 - o Finalized the online application and evaluation form
 - o Recruited and coordinated Selection Committee
 - o Developed materials, facilitated TPB officer concurrence, presented to TPB on projects recommended for funding and received board approval.
 - o Developed application in TrAMS for FTA approval
 - o Published TPB News article on projects selected for funding and participated in media interview types of projects
- Facilitated ARPA Solicitation and project selection
 - o Publicized to existing and recent subrecipients, AFA, TPB Technical Committee and TPB
 - o Finalized the online application and evaluation form
 - o Recruited and coordinated Selection Committee
 - o Developed materials for presentation to TPB Technical Committee on applications received and prepared materials for TPB approval
- Launched 2021 Enhanced Mobility Solicitation process
 - o Conducted 3 virtual pre-application conferences
 - o Finalized the online application
 - o Advertised opportunity to TPB, COG Board, mailing lists, and current and past subrecipients

9.2 Transportation Alternatives Set-Aside Program

Staff reviewed and evaluated applications from Maryland and D.C. for the TA Set-Aside Program. Staff conducted site visits at the application locations and met with MDOT and DDOT staff to discuss the applications' viability. Staff also assembled selection panels that were tasked with reviewing the applications and making recommendations.

The selection panel for Maryland met on June 30 and identified six projects that it recommended for funding. A comparable selection panel for DC was scheduled to meet on July 7. For both Maryland and DC, the TPB Steering Committee was scheduled on July 9 to approve the recommendations for both DC and Maryland.

FY 2021 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 2021 occurred during the following months:
 - o June-July 2020 – FY 2021 funding for Maryland
 - o June-October 2020 – FY 2021 funding for D.C.
 - o June-July 2021 -- FY 2022 funding for Maryland
 - o June-July 2021 – FY 2022 funding for D.C.
- Throughout the year, the TPB Steering Committee approved funding transfers for projects in Virginia and D.C.
- Project selection activities for Virginia did not occur in FY 2021 because Virginia is on a two-year project selection cycle.

9.3 Transportation/Land-Use Connections (TLC) Program

The 15 TLC Projects for FY 2021 were all completed by the end of June. For each project, consultants and/or jurisdiction staff provided final products so they can be posted on the TLC webpage. In addition, consultants submitted final bills for the projects.

Based upon an RFQ process conducted earlier in the year, staff selected 15 firms to which master IDIQ contracts were awarded. These contracts provide them the opportunity to compete for task orders for individual TLC projects. In June, staff sent the draft contracts to the consultants for signature.

The TPB approved 11 TLC projects for FY 2022 on April 21. In June, staff worked with the new project sponsors to finalize Statements of Work that will be used to develop task orders.

FY 2021 ACCOMPLISHMENTS

- 15 TLC projects for FY 2021 were conducted and completed. Activities included consultant selection, project oversight, and project administration.
- 11 TLC for FY 2022 were selected. Activities included solicitation of applications, evaluation of applications, and selection and approval of projects for funding.
- The consultant selection process for TLC was revised. Activities included developing the new process, conducting a Request for Proposals, and selecting a list of master consultants for future TLC projects.
- 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 SUPPORT AND MANAGEMENT	\$858,369	\$202,200	83%	57

10. TPB SUPPORT AND MANAGEMENT**TPB Support and Management.**

This task includes activities not attributable to specific tasks in the work program but provides overall support for and management of the TPB and UPWP-related activities.

Provide administrative arrangements (such as preparation and distribution of meeting materials) and staff support for TPB and its various Committees, Sub-Committees, Task Forces and special TPB work

groups meetings. Respond to requests from TPB members, federal agencies, Congressional offices, media and others for information or data of a general transportation nature. Meet with TPB Board members and participating agency staff to discuss current and emerging regional transportation planning issues. Participate in meetings of other agencies whose programs and activities relate to and impact the TPB work program. Coordination of TPB Planning Activities with Program Directors and day-to-day management of and allocation of staff and financial resources. Monitoring of all work program activities and expenditures.

Staff support was provided for the following committees and subcommittees:

- State Technical Working Group (STWG)
- TPB Technical Committee
- TPB Steering Committee
- MWCOG Board Meetings
- Transportation Planning Board (TPB)
- MATOC Steering Committee
- TPB Community Advisory Committee (CAC)
- TPB Access for All Advisory Committee (AFA)
- Regional Public Transportation Subcommittee (RPTS)
- Bicycle & Pedestrian Subcommittee
- COG Planning Directors
- TPB Freight Subcommittee

Support activities from the administrative staffs included: meeting logistics with meeting rooms and amenities, duplication and distribution of meeting materials, email/phone call follow ups. Additionally, staff also worked on monitoring work program activities, providing administrative assistance to senior staff and monitoring and prepare financial reports. Additionally, administrative staff work on monthly financial administration and management activity which 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 to all the Department's activities. Work activities the Director was involved in during the month of **June FY 2021** includes:

Discussions, review, and finalization of the agenda topics for the TPB's Technical Committee, State Transportation Working Group (STWG) and Board meetings. This includes meeting with the Program Directors and project staffs 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.

Other additional activities for the TPB Staff Director for the month of **June FY 2021** includes Telephone/ Web EX / Microsoft Teams Communications as of June FY 2021:

- Alexandria Tech. Repo. @ TPB Conformity Inputs
- Briefing TPB Vice Chair (City of Manassas)
- Major Metros – Weekly – COVID-19
- Briefing – N, Whitaker – Viz45
- 11th Street Bridge Park – COG
- TRP-RPA NEPA Status – Plans
- Montgomery County & Frederick County EV SOW
- Commuter Connections Awards Ceremony – National Press Club

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 prepare all necessary federal grant applications submissions.
- Review all monthly UPWP invoices going to each of the state agencies administering planning funding.

FY 2021 ACCOMPLISHMENTS

Staff support was provided for the monthly meetings of the following committees and subcommittees:

- State Technical Working Group (STWG) – 11 meetings
- TPB Technical Committee – 11 meetings
- TPB Steering Committee – 11 meetings
- MWCOG Board Meetings Transportation Planning Board (TPB) – 11 meetings
- MATOC Steering Committee – 10 meetings
- TPB Citizens Advisory Committee (CAC) – 11 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
- Transportation Safety Committee - 6 meetings

FY 2021 ACCOMPLISHMENTS of Other additional activities by the TPB Staff Director**JULY & August FY 2021**

- Road to Recovery / Density & Transportation During COVID-19
- IMG Rebel – Transit & COVID-19 Pandemic Tool
- COVID-19 Response & Regional Transportation Dashboard - COG/TPB
- CARES Act Funding for Vanpools
- MWCOG / GWP Reopening Survey Study (2)
- BOS Study External Stakeholders
- LGW's Thought Leadership – Session 1
- CEEPC
- Region Forward Coalition
- Md House of Delegates T&E Subcommittee Meeting Prep. (2)
- COG - CAO Meeting
- ULI Presentation to COG @ TAFA
- BRTB & TPB Chairs Conf. Call @ MD GA – T&E Subcommittee Meeting
- Washington Post Call
- COG Board of Directors Meeting (TAFA & NCTN)
- Md House of Delegates E&T Subcommittee Meeting (2)
- LGW's Thought Leadership Series - Session 2
- Racial Equity Discussion (Living Cities and Fairfax County)

<ul style="list-style-type: none"> • Leadership Peer Exchange
<ul style="list-style-type: none"> • TPB Climate Workshop Update
<ul style="list-style-type: none"> • COG/TPB Executive Committee Meeting
<ul style="list-style-type: none"> • AFA Chair Discussion
SEPTEMBER FY 2021
<ul style="list-style-type: none"> • Discussion with Alexandria TPB member Re: AFA Chair
<ul style="list-style-type: none"> • Pandemic Period Travel Impacts - Staff Discussion
<ul style="list-style-type: none"> • MWAQC – TAC Meeting
<ul style="list-style-type: none"> • Rethinking the CAC – Staff discussion
<ul style="list-style-type: none"> • VRE-MARC COG Board Presentation Staff Discussion
<ul style="list-style-type: none"> • Input to ULI Washington on their internal grant
<ul style="list-style-type: none"> • Purple Line Discussion
<ul style="list-style-type: none"> • Draft COG Board Climate Resolution Staff discussion
<ul style="list-style-type: none"> • TPB COG Town Hall Series Prep
<ul style="list-style-type: none"> • BRT in Prince William Co. Discussions with TPB member
<ul style="list-style-type: none"> • 2030 Climate Action Plan Draft – Staff discussion
<ul style="list-style-type: none"> • TPB COG Town Hall Series Out of Crisis (Crisis Understanding) – Series #1
<ul style="list-style-type: none"> • WMATA Funding Debrief with COG staff for CAOs
<ul style="list-style-type: none"> • CEEPC Meeting
<ul style="list-style-type: none"> • Economic Development Collaboration
<ul style="list-style-type: none"> • Public Health Indicators Staff discussion
<ul style="list-style-type: none"> • Climate Change Planning Work session – Discussion with DOTs
<ul style="list-style-type: none"> • Outlook of planning focus areas for staff - MWCOG-ICF Discussion
<ul style="list-style-type: none"> • NARC Regional Modelers Meeting
October FY 2021
<ul style="list-style-type: none"> • Panelists on GWU's Trachtenberg School of Public Policy and Public Administration on COG's work in Transportation
<ul style="list-style-type: none"> • COG DEP – COG DTP Climate Planning
<ul style="list-style-type: none"> • Discuss Proposed Rail to Trails Pilot Program
<ul style="list-style-type: none"> • COG-DCPS Work on Impediments to Housing Study
<ul style="list-style-type: none"> • CAOs Meeting / IRE Poster Session
<ul style="list-style-type: none"> • RELI Transportation Meeting
<ul style="list-style-type: none"> • Rail Vision Advisory Committee Meeting
<ul style="list-style-type: none"> • LGW's Thought Leadership Series – Session #4
<ul style="list-style-type: none"> • AMPO Annual Meeting Session Prep and Annual Meeting – EJ Panel
<ul style="list-style-type: none"> • COG's Virtual Townhall Leaning in to 2021: More Equitable, More Resilient
<ul style="list-style-type: none"> • COG-DTP's Work Session on Equity
<ul style="list-style-type: none"> • Discussion with MDOT & MdSHA Media Comments/Questions on I-495/I-270 DEIS
<ul style="list-style-type: none"> • COG Strategic Planning – Introductory Meeting
<ul style="list-style-type: none"> • CAC Update – Board Follow-up – B. Hayes
<ul style="list-style-type: none"> • Panelists on GMU's RELI Webinar for NoVA Elected Leaders Policy
<ul style="list-style-type: none"> • Internal discussions on VDOT RM3P Discussion – Dynamic Incentivization
November FY 2021
<ul style="list-style-type: none"> • Greater Washington Partnership TOD Study
<ul style="list-style-type: none"> • CAOs Meeting
<ul style="list-style-type: none"> • AEG/HG Stakeholder Effort - WMATA/DC/COG
<ul style="list-style-type: none"> • LGW's Thought Leadership Series #5
<ul style="list-style-type: none"> • WMATA – Discuss CLRP submittal & Climate Planning task
<ul style="list-style-type: none"> • Regional Housing Summit & Playbook Launch

<ul style="list-style-type: none"> • Rail Vision Data Check-in
<ul style="list-style-type: none"> • Leaning in to 2021: More Equitable, More Resilient
<ul style="list-style-type: none"> • Montgomery & Loudoun Counties - Climate Planning task
December FY 2021
<ul style="list-style-type: none"> • TPB Nominating Committee
<ul style="list-style-type: none"> • CAOs Meeting
<ul style="list-style-type: none"> • Stafford County Transportation Needs Follow-up
<ul style="list-style-type: none"> • Legislative Committee Meeting
<ul style="list-style-type: none"> • COG Audit Committee Meeting
<ul style="list-style-type: none"> • CEEPC Chair Planning Meeting
<ul style="list-style-type: none"> • LGW's Thought Leadership Session #6
<ul style="list-style-type: none"> • PWC Chair Wheeler
<ul style="list-style-type: none"> • D.C. Council Bill – 23-987 Green Food Purchasing
<ul style="list-style-type: none"> • COG Annual Meeting
<ul style="list-style-type: none"> • Overview of TPB Activities in 2021
<ul style="list-style-type: none"> • GHG Scenarios Discussion
<ul style="list-style-type: none"> • Technical Inputs Solicitation Discussion
<ul style="list-style-type: none"> • Leaning in to 2021: More Equitable, More Resilient
January FY 2021
<ul style="list-style-type: none"> • CAOs Meeting
<ul style="list-style-type: none"> • CAC's 2021 Discussion / P. Sebesky - Manassas
<ul style="list-style-type: none"> • Major Metros – Weekly on COVID-19
<ul style="list-style-type: none"> • COG Board of Directors
<ul style="list-style-type: none"> • Leaning in to 2021: More Equitable, More Resilient
<ul style="list-style-type: none"> • MD-GA HB73 / MDOT
<ul style="list-style-type: none"> • CEEPC New Leadership Discussion
<ul style="list-style-type: none"> • Conformity and MOVES3 Discussion
<ul style="list-style-type: none"> • Visualize 2045 Update / VDOT Projects / N. Whitaker - VDOT
<ul style="list-style-type: none"> • Region Forward Coalition
<ul style="list-style-type: none"> • State Air Agencies Coordination Discussion
February FY 2021
<ul style="list-style-type: none"> • DOE Grant and Housing
<ul style="list-style-type: none"> • Rail Vision Advisory Committee Meeting
<ul style="list-style-type: none"> • MD HR Bill 485/SB361 Discussion (MWCOG & BMC)
<ul style="list-style-type: none"> • City of Rockville – TRP Project Status Call
<ul style="list-style-type: none"> • Sidwell Friends – Senior Class Seminar Regional Planning
<ul style="list-style-type: none"> • MWAQC Executive Committee
<ul style="list-style-type: none"> • TPB Climate Change Mitigation Study of 2021 – Discussions with on-call consultant
<ul style="list-style-type: none"> • TPB FY 22 UPWP Funding (FTA) – Discussions with DDOT
<ul style="list-style-type: none"> • Prince George's County - Climate Action Commission Meeting
<ul style="list-style-type: none"> • Regional Roundtable for NCHRP (DC Area)
<ul style="list-style-type: none"> • Transit Technical Assistance – VRE, (S. Soneji), MTA (Kyle) and Prince George's County (Vic)
<ul style="list-style-type: none"> • Interview Washington Post – Lori Aratani
March FY 2021
<ul style="list-style-type: none"> • Major Metros: Weekly - COVID-19
<ul style="list-style-type: none"> • CAO's Monthly
<ul style="list-style-type: none"> • Washington Post Interview – Luz Lazo
<ul style="list-style-type: none"> • Post Pandemic – Recovery & Adaption Work Activity

• AQ Planning in DC Region
• DC Council – MWOOG Performance Hearing
• FY 22 COG & CEA Program Budgets Review
• TPB Climate Change Mitigation Study (CCMS) - Briefing
• Climate, Energy & Environment Policy Meeting
• Ozone SIP Regional Planning
April FY 2021
• Major Metros: Weekly - COVID-19
• CAO's Monthly
• ENO Rapid Response Webinar – Biden's American Jobs Plan & Transportation
• Conformity Update – FHWA & FTA Reps.
• Region Housing Initiatives Peer-to-Peer Workshop
• US DOT – American Jobs Plan Webinar
• BUILD Grant – NPS
• NARC Executive Directors Council Discussion
• Montgomery County Staff - EV Charging RFP
• TPB COG on Capital Trails Network BUILD Grant – Montgomery Co.
• US DOT Conference call with State/Local – Upcoming Grant Programs
• Ozone SIP Planning Update – VDEQ
May FY 2021
• Major Metros: Weekly - COVID-19
• MPO Best Practices Discussion
• Procurement Training
• The Washington Post Interview – Lori Aratani
• Briefing - P. Sebesky – City of Manassas
• COG Audit Committee Meeting
• Prince George's County Climate Commission Meeting
• TPB CAV Forum – White Paper Findings and Recommendations
• Chief Equity Officers Committee – Presentation on EEA
• State / Local Call with USDOT IGA

Task 11	BUDGET	Billed this month	% Funds Expended	UPWP Page
TECHNICAL ASSISTANCE	\$968,627	\$440,358	90%	59
District of Columbia	\$71,400	\$8,513	87%	59
Maryland	\$330,001	\$149,633	91%	61
Virginia	\$385,000	\$155,019	85%	63
WMATA	\$182,226	\$127,191	100%	65

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.

Staff continued to work with DDOT staff to develop a scope of work for a project the DDOT Historic Data Standardization Project. DDOT share additional file types and formats; staff reviewed and assessed these. A project development meeting was held with DDOT, COG, Howard University, and MS2 staff to resolve the remaining technical questions, finalize project scope, and discuss the next steps

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.

FY 2021 ACCOMPLISHMENTS

Staff supported the development of a scope of work for the DDOT Historic Data Standardization Project

Note: Beginning in October 2020, HPMS Support was under SPR funding, these accomplishments only cover the period from July 1, 2020 through September 30, 2020.

- Staff participated in 3 HPMS Committee meetings and the 2020 FHWA Highway Information Seminar (HIS).
- Staff identified potential locations for fall 2020 counts to help inform 2020 factors. When these locations were approved by the HPMS Committee, staff assigned the counts to the contractor.
- Staff provided oversight of the contractor's performance and reviewed and accepted 33 short-term counts during FY 2021 (fall 2020 recounts only).
- Staff monitored the performance of DDOT's permanent counting stations and provided DDOT with monthly summary reports.
- Staff produced a table indicating the direction of traffic measured at all PCS by channel. Staff provided this table in addition to the schematics of each of the PCS to the HPMS Committee.
- Staff reviewed the HPMS submittal observations from FHWA and provided a response to the traffic items.

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 organized and convened a meeting with MDOT staff to discuss plans for the FY 2022 Maryland Technical Assistance Account.

Feasibility/Special Studies

Traffic Relief Plan (TRP) Project Development Activities

No activities to report this month.

Transportation / Land Use Connections Program

As part of the Transportation/Land-Use Connections Program, five technical assistance projects in Maryland were fully or partially funded through the Maryland Technical Assistance Program. See TLC item above (9.3) for further details about the TLC Program.

FY 2021 ACCOMPLISHMENTS

- Throughout FY 2021, DTP staff participated in the Traffic Relief Plan (TRP) project development activities and regularly attended the I-495 and I-270 Managed Lanes Study Interagency Working Group meetings. The study milestones were the announcements of the Recommended Preferred Alternative (January 2021) and the Revised Recommended Preferred Alternative (May 2021), referred to as Alternative 9 – Phase 1 South. DTP staff also participated in activities related to the I-270 North of I-370 Pre-NEPA Study.
- DTP staff worked closely with MDOT and coordinated activities related to the projects. These activities included providing responses to media inquiries related to MDOT's Draft Environmental Impact Statement for the I-495 & I-270 Managed Lanes Study (released in June 2020) and documenting differences in modeling assumptions and methodologies between MDOT's and TPB's analyses in a memorandum.
- Staff coordinated with and connected MDOT MTA to regional stakeholders and members of the former Technical Advisory Committee for the MARC-VRE Run Through Service Market Assessment and Technical Considerations Study to discuss the Maryland House Bill 1236.

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 reviewed the Traffic Monitoring Contract before it was finalized by Contracts and Procurement.

Travel Monitoring and Survey

Non-Motorized/Active Transportation Counts

Staff finalized the review of the data files and videos from the non-motorized counts conducted along the Washington and Old Dominion (W&OD) trail in the spring of 2021.

Staff drafted the report on the fall 2020 non-motorized counts at locations on the beltway cordon and delivered it to VDOT staff for review and comment.

I-66 & I-395 Mode Share Study

Staff continued to update material and coordinate internally in preparation for the FY 2022 study.

Travel Demand Modeling

Air Quality Conformity (AQC) Sensitivity Test

Staff performed AQC Sensitivity Test on the VDOT I-495 NEXT (Express Lanes) and reported to the Technical Committee, MWAQC TAC, and the TPB.

Sub-Regional Planning StudyPark and Ride Assessment

The consultant, VDOT, and COG/TPB participated in two meetings: a meeting to discuss the outline for the story map as well as a project close-out meeting.

The consultant completed the final report and story map and transmitted them to VDOT.

Transportation / Land Use Connections Program

As part of the Transportation/Land-Use Connections Program, three technical assistance projects in Virginia were fully or partially funded under the Virginia Technical Assistance Program. See TLC item above (9.3) for further details about the TLC Program.

FY 2021 ACCOMPLISHMENTS

- Staff managed and completed the following tasks/projects:
- Non-Motorized Beltway Cordon Count Project and Report (Phase 2 – Fall 2020 Counts)
- Non-Motorized W&OD Trail Counts Project (Spring 2021 Counts). Staff monitored the contractor and reviewed and approved the counts. The report will be completed in FY 2022.
- Park and Ride Assessment
- Staff prepared for the FY 2022 I-66 and I-395 Mode Share Study

11.4. Regional TransitProgram Development

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

Transit Within Reach

Staff distributed an email to remind stakeholders that applications are due on July 1st.

Staff reached out to selection panels to learn their availability in July and August and set up two meetings to discuss and make recommendations on the applications.

High Capacity Transit Map

Staff finalized the proposal for the high-capacity transit map and will share with the DTP Department Director to obtain feedback and signoff.

Transportation / Land Use Connections Program

As part of the Transportation/Land-Use Connections Program, three technical assistance projects were fully or partially funded under the Regional Transit Technical Assistance Program. See TLC item (9.3) above for further details about the TLC Program.

FY 2021 ACCOMPLISHMENTS

- Staff proposed and initiated a new program, Transit Within Reach Technical Assistance. The first solicitation is underway.
- Staff developed and refined a proposal for a high capacity transit map.
- Three Transportation/Land-Use Connections Programs, projects were fully or partially funded under the Regional Transit Technical Assistance Program.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

The CASP 36 grant application was completed and ready for submittal to FAA in March, however, FAA advised staff to hold off formally submitting it until additional guidance could be provided to COG by FAA. This subsequent guidance was provided in May and staff finalized and submitted the grant application in June.

Comprehensive Regional Air System Plan Update – Phase 3

No activity. This task is complete.

Survey Response Rate and Quality Study

The draft Task 4 deliverable was submitted by the consultant team in early June. This deliverable was the final report containing the full documentation of the study and the study recommendations. Staff reviewed the draft deliverable and provided comments to the consultant team. The final report was submitted and accepted during June, signaling the conclusion of the study.

Process 2019 Air Passenger Survey - Phase 2

No activity. This task is complete.

FY 2021 ACCOMPLISHMENTS

- Five Aviation Technical Subcommittee (ATS) meetings were held between July 2020 and June 2021.
- Staff completed the Comprehensive Regional Air Systems Plan (RASP) Update, culminating in a presentation to TPB on the priority airport ground access projects to the TPB at its March 2021 meeting.
- Staff completed the geographic processing of all data from the 2019 Washington-Baltimore Regional Air Passenger Survey. This dataset was used to make presentations to the Aviation Technical Subcommittee, the Travel Forecasting Subcommittee, and the TPB Technical Committee as well as to the Baltimore Region Transportation Board. These data were documented in the 2019 Washington-Baltimore Regional Air Passenger Survey: Geographic Findings Report.
- The Regional Air Passenger Survey Response and Quality Study was completed during the fiscal year. This study, funded through a supplemental FAA grant, was prepared by TPB's on-call consultant under the oversight of a technical advisory committee convened for this effort.
- Staff updated the FAA Airport Capital Improvement Program and, based on the project listing, submitted the latest grant application, CASP 36.

PROGRESS ON PLAN PRODUCTS**BIG DATA IN REGIONAL TRAVEL AND MOBILITY ANALYSES**

- Completed kick-off meeting
- Consultant completed the State-of-the-Practice review (Task 2)
- The consultant completed the Big Data Evaluation (Task 3)
- The consultant submitted the final report
- Big Data evaluation completed in June 2020
- The project was extended, and an amendment was executed for a new task – Task 4 for the Consultant to execute three coordination meetings to refine and develop an actionable path toward Big Data procurement for COG/TPB.
- Coordination meetings with DDOT, MDOT, VDOT, VDRPT, and WMATA were completed.
- COG/TPB Leadership Coordination Meeting completed
- An amendment was executed for a new task to update the final report with additional Big Data Source, findings from when the contractor facilitated meeting with agency stakeholders, process and findings from meeting with COG/TPB directors, program managers, and potential Big Data Users, and recommendations for an actionable path toward Big Data procurement for COG/TPB.
- Consultant updated and submitted the final report.

Transportation Data Dashboard

- Completed kickoff meeting
- Tools evaluation under way
- Draft dashboard presented to TPB Technical Committee at the June meeting

Public Participation Plan

- TPB approval: October 2020

Public Opinion Survey for Visualize 2045

- Survey instrument and methodology developed: July-August 2020
- Presentation of findings to the TPB: February 2021
- Report finalized: March 2021

Qualitative Research (Focus Groups) for Visualize 2045

- Methodology developed and participants recruited: October-December 2020
- Focus groups conducted: January-February 2021
- Anticipated findings analyzed and report released: Fall 2021

Transit Access Focus Areas Study

- Completed: July 2020

Develop Regional Highway Safety Targets

- The TPB adopted annual Regional Highway Safety Targets in December 2020, based on staff compilation and analysis of jurisdictional data and targets.
- Building upon last year's (FY 2020) discussions of Regional Highway Safety Targets, the TPB adopted Resolution R3-2021 on July 22, 2020, setting forth TPB's safety policy, and establishing the Regional Roadway Safety Program to assist members to equitably improve safety outcomes for all roadway users. The initial set of Regional Roadway Safety Program applications from TPB members was received and reviewed in spring 2021, for execution during FY 2022.

Develop Regional Safety Study Final Report

- The FY 2021 phase of the Regional Roadway Safety Study was conducted, focusing on analysis of data according to TPB's Equity Emphasis Areas. A draft final report was provided in June 2021, with final acceptance anticipated in early FY 2022.

National Capital Regional Trail

- The National Capital Trail Network map was completed and approved by the Transportation Planning Board in July 2020. An interactive version was prepared and made available to the public on the TPB website.

Metropolitan Washington Regional Intelligent Transportation Systems Architecture (MWRITSA)

- Staff coordinated with member agencies and determined the MWRITSA version (2019) posted on the TPB website remained current as of June 2021.

Coordination Human Services Transportation Plan

- The current Coordinated Plan was adopted by the TPB in December 2018
- The next Enhanced Mobility Solicitation will occur from July 1, 2021 – September 1, 2021.
- The next update of the Coordinated Plan will occur in 2022

FY 2021 TRANSPORTATION PLANNING BOARD

COG/TPB BUDGET EXPENDITURE SUMMARY

June 2021

	DC, MD and VA FTA, FHWA and LOCAL BUDGET TOTAL	FUNDS EXPENDED	BILLED THIS MONTH	% FUNDS EXPENDED
1. Long-Range Transportation Planning				
Long - Range Transportation Planning	1,085,010.00	1,083,787.16	122,834.37	100%
SUBTOTAL	1,085,010.00	1,083,787.16	122,834.37	100%
2. Transportation Improvement Program				
Transportation Improvement Program	268,484.00	225,828.83	27,809.15	84%
TIP Database Support	170,000.00	178,344.00	0.00	105%
SUBTOTAL	438,484.00	404,172.83	27,809.15	92%
3. Planning Elements				
Congestion Management Process	504,501.00	331,081.31	43,150.93	66%
Systems Performance, Ops & Tech Planning	706,686.00	512,051.70	84,679.83	72%
Transportation Emergency Preparedness Planning	124,046.00	65,943.05	2,279.50	53%
Transportation Safety Planning	258,367.00	252,150.04	51,145.46	98%
Bicycle & Pedestrian Planning	151,252.00	149,203.99	4,038.09	99%
Regional Public Transportation Planning	368,910.00	350,888.59	61,841.30	95%
Freight Planning	140,466.00	140,519.59	4,241.39	100%
Metropolitan Area Transportation Operation Coord Program Planning	168,289.00	119,466.11	19,512.94	71%
Performance-Based Planning & Programming	280,399.00	246,999.35	41,840.11	88%
SUBTOTAL	2,702,916.00	2,168,303.72	312,729.55	80%
4. Public Participation				
Public Participation	1,018,896.00	1,015,509.76	73,085.57	100%
SUBTOTAL	1,018,896.00	1,015,509.76	73,085.57	100%
5. Travel Forecasting				
Software Support	198,271.00	148,147.78	6,137.40	75%
Network Development	999,084.00	917,918.72	61,974.48	92%
Model Development	1,789,137.00	1,242,206.28	138,639.69	69%
SUBTOTAL	2,986,492.00	2,308,272.78	206,751.57	77%
6. Mobile Emissions Planning				
Air Quality Conformity	849,138.00	783,739.66	51,524.73	92%
Mobile Emissions Analysis	961,454.00	871,435.59	101,866.22	91%
SUBTOTAL	1,810,592.00	1,655,175.24	153,390.95	91%
7. Travel Monitoring and Data Programs				
Regional Travel Survey	354,494.00	346,352.64	14,144.37	98%
Traffic Analysis & Research	360,344.00	327,964.17	56,400.17	91%
Regional Transportation Data Clearinghouse	326,087.00	285,418.93	17,680.79	88%
GIS Analysis	617,470.00	558,759.52	47,330.21	90%
SUBTOTAL	1,658,395.00	1,518,495.25	135,555.54	92%
8. Planning Scenarios and Socioeconomic Forecasting				
Socioeconomic Forecasting	1,032,477.00	798,719.97	96,016.76	77%
Scenario Planning	438,466.00	290,586.73	78,615.37	66%
SUBTOTAL	1,470,943.00	1,089,306.70	174,632.13	74%
9. Mobility and Enhancement Programs				
Transportation and Land Use Connections Program	435,840.00	431,396.81	114,359.63	99%
Enhanced Mobility Grant Program	164,038.00	76,200.96	6,101.57	46%
Transportation Alternatives Set-Aside Programs	24,574.00	26,082.49	4,061.52	106%
SUBTOTAL	624,452.00	533,680.25	124,522.72	85%
10. TPB Support and Management				
TPB Support and Management	858,370.00	714,327.40	202,200.99	83%
SUBTOTAL	858,370.00	714,327.40	202,200.99	83%
SUBTOTAL CORE PROGRAM ITEMS 1-10	14,654,550.00	12,491,031.11	1,533,512.54	85%
TECHNICAL ASSISTANCE				
District of Columbia Technical Assistance	71,400.00	62,474.90	8,513.20	87%
Maryland Technical Assistance	330,001.00	298,945.28	149,633.55	91%
Virginia Technical Assistance	385,000.00	327,134.30	155,019.98	85%
WMATA Technical Assistance	182,226.00	181,645.64	127,191.96	100%
Technical Assistance Program Total	968,627.00	870,200.12	440,358.69	90%
TPB GRAND TOTAL	15,623,177.00	13,361,231.23	1,973,871.22	86%

**FY 2021 TRANSPORTATION PLANNING BOARD
FINANCIAL STATUS OF TECHNICAL ASSISTANCE**

June 2021
SUPPLEMENT 1

	TOTAL AUTHORIZED BUDGET	TOTAL EXPENDITURES	FTA/STA/LOC AUTHORIZED BUDGET	FTA EXPENDITURES	PL FUNDS/LOC AUTHORIZED BUDGET	FHWA EXPENDITURES
A. District of Columbia Technical Assistance						
Program Development & Misc	10,000.00	8,573.79	803.98	689.31	9,196.02	7,884.48
Traffic Counts & HPMS Support	41,400.00	41,361.41	3,328.46	3,325.36	38,071.54	38,036.06
Climate Chg Study-DC	20,000.00	12,539.70	1,607.95	1,008.16	18,392.05	11,531.54
SUBTOTAL	71,400.00	62,474.90	5,740.38	5,022.83	65,659.62	57,452.07
B. Maryland Technical Assistance						
Program Development & Misc	15,000.00	5,736.36	1,205.96	461.19	13,794.04	5,275.17
Planning Studies	0.00	0.00	0.00	0.00	0.00	0.00
Feasibility/Special Studies	55,001.00	34,936.74	4,421.94	2,808.83	50,579.06	32,127.92
Transportation Performance Measures	0.00	0.00	0.00	0.00	0.00	0.00
Training, Misc and Tech Support	0.00	0.00	0.00	0.00	0.00	0.00
Transportation/Land Use Connection Program	260,000.00	258,272.18	20,903.36	20,764.45	239,096.64	237,507.73
MARC - VRE Runthrough - MD	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL	330,001.00	298,945.28	26,531.27	24,034.46	303,469.73	274,910.82
C. Virginia Technical Assistance						
Program Development & Misc.	15,000.00	6,266.69	1,205.96	503.83	13,794.04	5,762.87
Travel Monitoring	96,000.00	69,824.53	7,718.16	5,613.72	88,281.84	64,210.81
Travel Demand Modeling	12,000.00	11,259.97	964.77	905.27	11,035.23	10,354.70
Sub-regional Planning Studies	102,000.00	79,783.11	8,200.55	6,414.36	93,799.45	73,368.74
Transportation Land Use Connections	160,000.00	160,000.00	12,863.60	12,863.60	147,136.40	147,136.40
MARC - VRE Runthrough - VA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL	385,000.00	327,134.30	30,953.05	26,300.79	354,046.95	300,833.51
D. WMATA Technical Assistance						
Program Development & Misc	5,000.00	4,385.14	5,000.00	4,385.14	0.00	0.00
SUBTOTAL	182,226.00	181,645.64	182,226.00	181,645.64	0.00	0.00
GRAND TOTAL	968,627.00	870,200.12	245,450.70	237,003.72	723,176.30	633,196.40