

FY 2021



National Capital Region
Transportation Planning Board

Work Program Progress Report

May 2021

FY 2021

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The TPB approved its FY 2021 Unified Planning Work Program (UPWP) in 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 May. 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.

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Task 1	BUDGET	Billed this month	% Funds Expended	UPWP Page
LONG RANGE TRANSPORTATION PLANNING	\$1,085,010	\$113,832	89%	31

1. LONG-RANGE TRANSPORTATION PLANNING

1.1 Long-Range Transportation Plan

In May 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.

The staff conducted the comment period and interagency review from April 2-May 3. In May, staff completed the review, compilation, and summarized comments, and continued to work with sponsoring agencies to develop responses. Staff worked with agencies to document technical corrections to the inputs. Staff coordinated internally and with technical members to review the data updates, address any errors or questions and to apply quality control procedures. Staff finalized the comment summary/response packet, including the comment compilation, work session summary, and updated conformity table.

Staff prepared for and coordinated with regional technical partners to conduct a second board work session prior to the May meeting to review the inputs with technical agency staff that sponsored new and existing projects. Staff produced additional documentation on all projects in the plan to inform the board's decision making in coordination with agency staff, to develop responses for all existing capital projects in the plan to the policy question (#32-45) in the technical inputs summary. Staff submitted these responses for nearly 400 projects for the board member to consider and discuss during the May work session. Staff drafted a memorandum to summarize the work session. Staff prepared for the June board meeting.

Staff began drafting the content of the plan document.

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 an informational public (virtual) session to provide an overview of this upcoming summer activity.

Staff completed the first phase of testing new performance measures being considered to enhance the LRTP performance reporting and reviewed the findings with senior leadership at TPB.

Staff continued work, with consultant support, 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 scenario planning (staff capacity building) workshop.

1.2 Federal Compliance

There were no activities this month.

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.

Task 2	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRANSPORTATION IMPROVEMENT PROGRAM	\$438,483	\$18,434	86%	33

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1 Transportation Improvement Program (TIP)

During the month of May, TPB staff processed administrative modifications for three projects or programs at DDOT's request: Safety Improvements Citywide (TIP ID 3212), Benning Road Reconstruction and Streetcar Extension (TIP ID 5754), and H Street Bridge over Railroad (TIP ID 6039). Staff also approved one modification at the request of VDOT for the Alexandria 4th Track project (TIP ID 6673).

TPB staff also submitted a request to DDOT to amend its STIP to include the April 2021 amendment to the TPB's section of the FY 2021-2024 TIP to include funding from the CRRSAA program.

2.2 TIP Database Support

EcoInteractive continued to provide general help desk services to TPB staff and agency users throughout the month of May. At the request of TPB staff, EcoInteractive removed a rule that restricted projects that were proposed for inclusion in one TIP action (such as an adoption of the upcoming FY 2023-2026 TIP) from also being included in a more immediate action such as an amendment or modification to the FY 2021-2024 TIP. The consultant also enhanced their GIS platform with a feature that allows users to create nodes that are not associated with any of the existing roadway or bicycle/pedestrian layer features, thus allowing for the mapping of new construction projects where no facility currently exists.

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	\$2,702,916	\$225,158	69%	35

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

Staff briefed the Technical Committee on new PBPP data for calendar year 2020 and the schedule for PBPP activities over the next year. Staff continued discussion on the content and work items regarding PBPP for the 2022 version of the Visualize 2045 long range transportation plan. Staff began collection of annual Transit Safety and Transit Asset Management data and information from transit agencies.

3.2 Congestion Management Process

Congestion Management Process (CMP) data compilation and analysis continued toward future editions of the National Capital Region Congestion Report quarterly website “dashboard”. Staff continued compiling information on impacts of the COVID-19 pandemic on roadway traffic, transit ridership, and other aspects of transportation for presentation at future committee meetings, and as part of a multi-sectoral analysis of pandemic impacts for future presentation to the TPB and other stakeholders.

3.3 Systems Performance, Operations, and Technology Planning

The May 8, 2021 meeting of the Systems Performance, Operations, and Technology Subcommittee was organized and conducted, discussing the new traffic signal analytics feature of the Regional Integrated Transportation Information System (RITIS); the ongoing TPB Resiliency Study; the upcoming Connected and Automated Vehicles (CAVs) webinar; and the ongoing analysis of impacts of the COVID-19 pandemic on transportation.

The May 25 webinar “CAV Planning Considerations – White Paper Findings and Recommendations” was organized, conducted and reviewing that information from a 2020 consultant-developed white paper.

In coordination with the Long-Range Transportation Planning Task 1, a consultant team with staff oversight continued work on “Resiliency Planning Factor – Adaptation Planning and Coordination”, to research and document TPB member agency resiliency adaptation activities, and to develop a white paper to describe findings. The effort was anticipated to be completed by June 2021.

3.4 Transportation Emergency Preparedness Planning

Preparations began for the June 9, 2021 meeting of the Transportation Emergency Preparedness Committee (R-ESF 1) to discuss current regional transportation emergency preparedness issues, and Metropolitan Area Transportation Operations Coalition (MATOC) and transportation agency response actions due to COVID-19.

3.5 Transportation Safety Planning

Staff developed agenda items and secured speakers for the regularly scheduled June 8, 2021 meeting of the Transportation Safety Subcommittee.

The Selection Panel met and reached a consensus as to which of the 11 Regional Roadway Safety Program applications will be recommended to the TPB for funding. Staff developed materials on this topic for presentation to the TPB Technical Committee at their regularly scheduled June 4, 2021 meeting.

14 firms submitted proposals in response to the Regional Roadway Safety Program RFQ. A Technical Selection Panel was established and has begun reviewing the proposals and will submit their scores by June 18, 2021.

Staff began their review of the draft final report for the Analysis of Regional Roadway Safety Outcomes study.

3.6 Bicycle and Pedestrian Planning

The May 18, 2021 meeting of the Bicycle and Pedestrian Subcommittee was organized and conducted. The agenda included a review of the project map, a briefing on the bike/ped project database, the results of an initial buffer analysis on the network, a review of a recently released report titled, “The Economic, Health and Environmental Benefits of Completing the Capital Trails Network”, and an update on the results of a recent study on a possible regional trail count program.

Staff answered questions about the Spring Street Smart campaign at the Virginia Pedestrian Safety Task Force on May 12, 2021, and both the Prince George's County Vision Zero Working Group and the Maryland Pedestrian-Bicycle Emphasis Area Team on May 20, 2021.

Staff announced the TAFA program at the Capital Trails Coalition Steering Committee meeting on May 25, 2021.

Staff resolved the remaining issues with the bike/ped project database, and no further changes will be made to it for this Plan update. Staff continued work to reformat and update the bike/ped plan text.

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee met in May. The agenda included an update on regional information gathering regarding transit operations and Covid-19, a TPB update on regional transit inputs for Visualize 2045, and information collection activities, a presentation by Alexandria DASH on the new DASH network and fare free transit plans, followed by a roundtable on fare reinstitution & fare free initiatives.

Staff briefed the Technical Committee on the white paper on transit equity analysis and continued working with the on-call planning consultant conducting the analysis. TPB staff prepared letters of support for federal grant applications by member agencies. Staff completed drafting a memo providing an overview on fare relief: background, events of the pandemic, equity and climate change goals, and other transit fare factors. Staff attended a briefing on Maryland House Bill 1236 Coordination (MARC Run-through) and attended the monthly NVTC MAC and WMATA JCC meetings.

3.8 Freight Planning

The regularly scheduled May 13, 2021 meeting of the TPB Freight Subcommittee was organized and conducted. The agenda included a presentation on the pandemic's implications for supply chains and freight, a review of a DC HSEMA project to plan for food and water needs during catastrophic events, and a briefing on open-source freight data.

Staff coordinated 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.

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 virtual May 21, 2021 meeting of the MATOC Steering Committee was organized and conducted, continuing discussion of communications, coordination, and Traffic Incident Management topics, as well as impacts of COVID-19.

A May 27 virtual meeting of the MATOC Operations Subcommittee was organized and conducted, for coordination on COVID-19's impacts on roadway operations, preparations for the upcoming Memorial Day holiday weekend, as well as general coordination activities.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	\$1,018,896	\$70,541	92%	41

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

The Community Advisory Committee (CAC) met on May 13, for an online-only meeting. Most of the meeting was devoted to an in-depth discussion about the long-range transportation plan and the process for its development. Also, at the meeting, staff briefed the CAC on the upcoming TPB agenda.

Using qualitative research software, staff continued 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 summer.

Staff continued preparing for 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 will be 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 May, staff worked with consultants to develop the signs along and associated website and identify 40 locations for the posters to be placed throughout the region.

The Voices of the Region public opinion survey continued to receive attention in the media. Also, during this reporting period, staff prepared jurisdiction-level data to share with TPB members.

Staff began planning for a June AFA meeting, but canceled it due to limited agenda items. On May 26, communication with AFA membership on CRRSAA, ARPA and Enhanced Mobility solicitations and next steps for Visualize 2045 was sent instead.

4.2 Communications

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

Voices of the region on climate change

May 25, 2021

The Voices of the Region survey is a part of the update to Visualize 2045. This public opinion survey will help planners and decisionmakers better understand public attitudes about a range of topics, including climate change.

A brief recap of the May TPB meeting

May 25, 2021

At its May meeting the TPB received briefings on Enhanced Mobility grant solicitation, the first phase of a Climate Change Mitigation Study, and a review of comments received During the first comment period for the update of visualize 2045.

Bike to Work Day is Back in 2021

May 20, 2021

Thousands Celebrated the Event's Return for its 20th Anniversary.

Transportation organizations receive funding to help older adults and people with disabilities

May 11, 2021

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

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

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	\$2,986,492	\$161,106	70%	43

5. TRAVEL FORECASTING

5.1 Network Development

In support of the 2022 update of Visualize 2045, staff completed the development of the base-year (2019) network, which is being tested in a preliminary 2019 model run for quality control and quality assurance (QA/QC). To help investigate the difference in transit person trips between a prior 2019 model run and this test run, staff summarized and compared TRNBUILD transit line files between the 2019 CLRP and 2021 CLRP network databases.

In support of Gen3 Model development, staff made updates to the base-year (2018) highway and transit networks that include four time-of-day periods. After receiving the 2018 network files, the consultant, RSG, requested two updates to the networks: 1) 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 Model, and 2) the conversion of links that serve travelers going to park-and-ride (PNR) lots: from one-way (which is used for production-attraction assignment in TRNBUILD) to two-way (which is used for origin-destination assignment in PT). Staff post-processed the transit files and performed model runs to ensure that the network files exported from the network database in Public Transport (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 the updated 2018 network files to RSG on May 18. Per request from RSG, staff also converted the connectors to and from Park-and-Ride (PNR) parking lots from one-way to two-way links in the network database. Staff will develop another set of 2018 PT network files that include two-way PNR connectors and share it with RSG. In the meantime, staff will modify the TRNBUILD export function of the COGTools so that it will export one-way PNR connectors in TRNBUILD networks as before.

In preparation for the upcoming air quality conformity analysis, staff began coding bus service updates provided as part of the transit service details for project inputs in the Long-Range Transportation Plan. Staff also continued review of existing parking costs and number of parking spaces for each PNR lot in preparation for updating those values in the travel demand inputs (STATION.DBF file).

Staff made a couple of improvements to the existing network database and COGTools. Specifically, staff updated the network database and COGTools to make the Network Year attribute of highway

links editable in the Highway Editing Window. In addition, staff updated the COGTools Export function to make sure that the width of exported transit line files does not exceed 144 columns. Staff also started working on updating the COGTools User's Guide.

In support of the 2018 validation of the Ver. 2.4 Model, staff developed the HOV/LOV equivalence table for the 2018 highway network. Staff performed review of the equivalence table in ArcGIS and tested it with the 2014 traffic count data.

5.2 Model Development and Support

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months. Staff participated in the May 21 TFS meeting, which included the following topics:

- Using LBS and APC data in Los Angeles to support transit recovery in response to COVID-19-related restrictions
- Air Quality Conformity Analysis: 2022 Update to Visualize 2045 and FY 2023-26 TIP, Draft Scope of Work
- Geographic findings of the 2019 Air Passenger Survey
- COG/TPB Gen3 Travel Model: Status report
- Roundtable discussion of current modeling efforts around the region
- Other Business
 - Monthly snapshots of effects of COVID-19 on travel available on COG website
 - Upcoming guest presenters at TFS meetings in 2021

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

In support of the 2018 validation of the Ver. 2.4 Model, staff developed the HOV/LOV equivalence table for the 2018 highway network and executed the 2018 highway validation process with the 2014 traffic count data in a test.

In support of the upcoming Air Quality Conformity (AQC) analysis for the 2022 Update of Visualize 2045, staff completed processing the Round 9.2 Cooperative Forecasts of land use data. Staff developed a draft memo documenting this work, which is currently under internal review. Staff requested the latest external station counts from the Planning Data and Research (PDR) team and started updating related input files (exogenous/miscellaneous trip files and CPI file) for the Ver. 2.4 Model.

Staff made modifications to a model script that would abort a model run if any transit line file exceeds 144 columns.

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

Staff registered the latest changes to the model files in the version control system. Staff started to develop a technical memorandum 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 (May 6 and 20).
- In support of the Gen3 Model data needs as outlined in an RSG memo (last updated 12/1/20), staff collected and processed some data items. Specifically,
 - With assistance from the Travel Forecasting and Emissions Analysis (TFEA) Team, staff in the Planning Data and Research (PDR) Team completed the compilation of the 2018 daily traffic count data for screen line links and hourly counts from the

database. As part of the development of the 2018 traffic counts, staff also updated the 2018 highway network and transmitted the updated files to RSG.

- Staff provided review of three technical memos that BMG developed to document the analysis of the VRE, MARC, and Metrorail Transit On-Board Survey data.
- When reviewing the setup of the MWCOC Population Synthesizer software, staff raised some concerns over the potential political sensitivity associated with the base-year validation performance of certain control variables. RSG shared four suggested solutions in an email dated April 30. COG staff conferred internally and shared the recommended solutions with RSG on May 12.
- Staff continued to work on the reweighting of the COG 2017-18 Regional Travel Survey (RTS)/2018-2019 Maryland Travel Survey (MTS) data. Specifically,
 - Staff summarized transit by mode from the RTS/MTS before and after the reweighting of the survey data.
 - Staff reweighted the RTS/MTS with the additional region-level person controls of bus and commuter rail riders by frequency, per guidance from RSG.
 - Staff conducted sensitivity testing regarding the importance factors for bus and commuter rail controls. Staff summarized the results and shared them with RSG. RSG finalized the settings for the reweighting process based on the testing results.
 - Staff shared the reweighting results with the PDR team for their inputs on the final, Public Use Microdata Area (PUMA) consolidation procedure to improve the target matching performance.
- Staff reviewed the preliminary Gen3 modeling results in the activity-based model (ABM) Visualizer that is associated with ActivitySim, documented their thoughts/questions in a memo and shared it with RSG. As part of the review, staff estimated the VMT by residents of the TPB modeled area from the Ver. 2.4 Model and compared it to the estimates from the household travel survey (RTS) and the preliminary Gen3 Model.
- COG staff reviewed new model estimation results on the proposed ActivitySim transit pass/transit subsidy model shared by RSG.

Other activities

Staff serviced six modeling data requests: Four requests were for the Ver. 2.4 Travel Model. Two requests were from a local agency: Maryland-National Capital Park and Planning Commission (M-NCPPC, Montgomery Co.).

Staff attended the COG procurement training on May 6. Staff attended selected PTV VISUM training sessions to learn more about the software. Staff obtained a coupon code to access free online CUBE training courses from Bentley Systems and shared it within the TFEA Team.

Staff developed a memorandum that proposes user guidelines for the use of Git and GitHub to manage travel model scripts and batch files. Staff will make some updates to the memo based on user feedback.

Task 6	Budget	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$1,810,592	\$147,206	83%	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.

Staff briefed the Travel Forecasting Subcommittee on the project inputs and scope of work for the air quality conformity analysis for the 2022 Update to Visualize 2045 (item #3).

Staff continued to work with state and local departments of transportation as they reviewed the conformity project input table and provided "technical corrections" to project inputs. The "technical corrections" will be shared with the TPB before the board approves the project inputs for the conformity analysis.

Staff briefed the TPB Technical Committee on the importance of the air quality conformity process for transportation planning in the metropolitan Washington region ("Air Quality 101," item #5). The briefing included background information on federal regulations, air quality planning in the region ("State Implementation Planning"), air quality conformity, and modeling.

Staff continued to participate in the Scenario Planning Project Oversight Committee and provide feedback to the study team. Specifically, staff attended the first of two scenario planning workshops that focused on scenario planning conducted 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 May meeting agenda and a summary memo regarding the monthly TPB meeting and air quality conformity consultation elements.

6.2 Mobile Emissions Analysis

Staff continued to conduct activities related to the TPB Climate Change Mitigation Study of 2021 (CCMS). Staff shared the final Phase I report (Greenhouse Gas Emissions Reductions Strategies: Findings from Past Studies) and briefed the TPB (item #9) and Climate, Energy and Environment Policy Committee (item #5) on the report findings. 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. The project consultant provided TPB staff with a draft 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 also reviewed a draft presentation that accompanied the report and provided feedback to the consultant ahead of the TPB Technical Committee planned for June 4, which is when this information will be presented for the first time.

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 different planning options for the 2015 ozone NAAQS (item #4). Specifically, the committee was briefed on implications of different planning options and timelines considering the nonattainment of the 2015 ozone NAAQS based on the draft 2018-2020 ozone design value data.

The three options are 1) voluntary reclassification, 2) one-year extension, and 3) a “do nothing” option. These planning options were also discussed at the MWAQC meeting (item #5). MWAQC members will continue to work toward reaching a consensus on which planning option to select. MWAQC was also provided with an update on the current ozone season, at which COG staff noted that three ozone exceedances had been recorded in May, which could make it more challenging to attain the 2015 ozone NAAQS (item #4).

Regarding the 2015 ozone NAAQS planning options, DEP staff transmitted a set of questions related to the development of SIPs to address the 2015 NAAQS to the U.S. EPA, including questions pertaining to the attainment year for future conformity analyses.

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 and Mid-Atlantic states and the District of Columbia that seeks to reduce carbon emissions from the transportation sector. Staff finalized a presentation and presented an overview of TCI at the May meeting of the Virginia Association of the Metropolitan Planning Organizations (VAMPO).

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.

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

Task 7	BUDGET	Billed this month	% Funds Expended		UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	\$1,658,395	\$92,676	83%		47

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Travel Surveys

Staff prepared and finalized responses for the RTS stakeholder questions project.

Staff fielded RTS data requests from stakeholders.

Staff provided input on the sharing of jurisdiction-level data from the Voices of the Region Survey.

Staff reviewed and provided comments on the Task 4 memo from the Regional Air Passenger Survey Response Rate and Quality Study.

Staff participated in monthly meetings with the Regional Air Passenger Response Rate and Quality Study Technical Advisory Committee.

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

Staff provided background about the methodology and guidance on best uses for the RTS follow-on smartphone panel survey.

Staff continued to conduct a literature review of transportation surveys measuring the impacts to travel behavior from COVID-19 that inform regional transportation planning.

Staff submitted a proposal for a roundtable session at the Association of Metropolitan Planning Organizations (AMPO) 2021 Annual Conference focusing on insights and lessons from household travel surveys from a MPO perspective.

7.2 Traffic Analysis Studies, and Research

In support of the Travel Forecasting and Emissions Analysis Team, staff participated in biweekly meetings with the Gen3 Model Development Team and commented on alternative approaches to improve the validation performance of race controls

Staff responded to a request for land use and household data and shared links to the Cooperative Forecast and the Regional Travel Survey.

Staff supported the COG Office of Communications by reviewing data on high-capacity transit in the forthcoming Commercial Construction report.

Staff attended the Mid-Atlantic StatNet (MASN) Spring Meeting, an Equity Index demonstration, and the May Aviation Technical Subcommittee meeting.

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 made presentations on the 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.

Traffic Trends

Staff finalized the processing and analysis of the January and February 2021 traffic data from the region's continuous counting stations and enplanement data from the region's major airports and included them in a snapshot available on the COG/TPB website showing the travel monitoring impacts of the COVID-19 Pandemic in the National Capital Region.

RTS Stakeholder Question Project

Staff completed preparing responses to a series of questions submitted by regional stakeholders. The analysis was performed using SAS and the findings were displayed in a series of papers to be shared with stakeholders. The results of this project were shared with leadership and staff continued to develop a release plan.

Big Data in Regional Travel and Mobility Analyses

The consultant completed updating the final report and submitted it to the project manager. The updates included information about an additional big data source, findings from meeting with agency stakeholders, 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.

The project manager prepared and submitted a proposal for a presentation about this project to the AMPO Annual Meeting.

Transportation Data Dashboard

Staff continued development of a transportation-related data dashboard to serve as a first-cut demonstration of the concept. Staff continues to identify data, tools, and other specifications.

7.3 Regional Transportation Data Clearinghouse (RTDC)

Staff finalized the traffic data and related source codes on screen line links on the 2018 network for Gen3 model development. Staff used the link to station linkages developed during this process as input to the programs being developed to output hourly traffic count data by network link.

Staff provided 2007 through 2018 AADT/AAWDT data at external stations to TEFA team staff.

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 worked on migrating ArcGIS Online (AGOL) content to a new ArcGIS Server. This work is ongoing.

7.4 GIS Data, and Analysis

Staff attended and participated in the Maryland State Geographic Information Committee (MSGIC) meeting held on May 12.

Staff continued to participate in the Association of Metropolitan Planning Organizations (AMPO) MPO's ad-hoc Urban Area Working Group, attending a follow-up meeting held on May 7.

Staff attended the first (of a two part) Scenario Planning Workshop on May 21.

Staff presented a status update on the bicycle and pedestrian database at the TPB Bicycle and Pedestrian Subcommittee held on May 18. This update included a presentation on buffer analysis performed that looked at projects in the database in proximity to TPB's Equity Emphasis Areas and COG's Regional Activity Centers.

Staff attended the May meeting of the Cooperative Forecasting and Data Subcommittee held on May 11.

Staff planned and participated in the May 18 GIS Committee/GDX Working Group virtual meeting. Agenda items included reports on the Food Distribution Mapping Initiative, CAD2GIS, and the status of NextGen 9-1-1. Following the meeting, staff facilitated a connection between Charles County staff and the GDX Project Manager and consultant for CAD2GIS.

Staff continued to attend and participate in Visualize 2045 activities, hosted by the DTP Plan Development and Coordination Team, by attending a meeting held on May 26, as well as meeting informally throughout the month as necessary.

Staff hosted a meeting with bicycle/pedestrian staff from the Maryland National Capital Park and Planning Commission (M-NCPPC) Montgomery County to finalize bicycle and pedestrian projects in the Project InfoTrak (PIT) database.

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 continued to work with staff from the Department of Homeland Security and Public Safety to refresh the data used in COG's regional COVID-19 mass vaccination site web mapping application.

Task 8	BUDGET	Billed this month	% Funds Expended		UPWP Page
SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING	\$1,470,943	\$97,910	62%		51

8. SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING

8.1 Scenario Planning

Staff participated in regular coordination meetings with the consultant.

The project manager provided final comments a memo focused on scenario planning tools to the consultant. The Oversight Committee completed its review of the scenario planning applications memo which focused on activities at peer MPOs. The project manager added information about COG/TPB to the memo. The scenario planning applications memo was finalized on May 21st.

In preparation for two scenario planning workshops, the consultant prepared facilitation plans, agenda, and presentation material. The project manager reviewed and commented on these documents. The project manager distributed the official invitation to the first of two scenario planning workshops for staff. The first workshop was conducted on May 21st and the second workshop will be conducted in June.

The project manager prepared and submitted a proposal for a presentation about this project to the AMPO Annual Meeting. The project manager also prepared an article about this project for the APA's Regional and Intergovernmental Planning Division's Spring newsletter.

Staff also reviewed and approved the consultant's invoice for work performed in April.

8.2 Socioeconomic Forecasting

Draft Round 9.2 Cooperative Forecasts

During May DCPS staff continued work on the "Baseline Employment" memo to support Cooperative Forecasting with deadline for presentation and review by staff and the Cooperative Forecasting Subcommittee during June.

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 May 21 Planning Directors meeting, Prince George's County Deputy Planning Director Derick Berlage convened a special panel of experts to discuss potential post-COVID effects on commercial office space. The panelists included Yolanda Cole of Hickok Cole Architects and ULI Washington; Michelle Hedgepeth of M-NCPPC, Prince George's County; Kristi Smith of JBG Smith; and Dean Lopez of Corporate Office Properties Trust (COPTI). As part of the meeting, DCPS presented key findings from the 2020 Commercial Construction inventory report.

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

DCPS staff prepared a survey for Cooperative Forecasting Committee members and met with TPB staff to review and discuss it. TPB Staff also prepared written comments on the survey.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	\$624,450	\$78,564	66%	55

9. MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

On May 18, staff participated in Virginia Department of Rail and Public Transportation's Statewide Human Services Transportation meeting and presented on Rides to Health, COG's Innovative Coordinated Access and Mobility (ICAM) in partnership with IT Curves.

On May 7, staff presented to the Technical Committee on the upcoming Enhanced Mobility Solicitation and pre-application conferences.

On May 19, staff presented to the TPB on the upcoming Enhanced Mobility Solicitation and pre-application conferences.

Staff managed the solicitation for ARPA funding, which opened on May 21.

9.2 Transportation Alternatives Set-Aside Program

Staff encouraged member jurisdictions to apply for TAP in the TPB's state-level jurisdictions. For Maryland and DC, the application periods for FY 2022 closed in mid-May. Staff worked with the DOTs to begin to process and review applications, and line up and schedule selection panels.

9.3 Transportation/Land-Use Connections (TLC) Program

Staff worked on Statements of Work for the 11 new TLC projects that the TPB approved in April for funding in FY 2022.

Staff worked with COG's procurement office in developing contracts for 15 consultants that will be pre-qualified to compete for task orders for TLC projects.

The 15 TLC Projects for FY 2021 were underway as described below:

- North Capitol Cloverleaf Urbanization Study (DC) – The consultant completed multiple draft concepts for both Urbanized and Urbanized + Connected alternatives for review with DCOP and DDOT and achieved consensus on a preferred version of these concept alternatives.
- Public Space Activation Playbook (DC) – At a project meeting on April 5, the consultant and jurisdiction review the best practices summary and draft materials matrix. The project moved toward conclusion.
- Pedestrian Overpass MD214 Feasibility Study (Bowie) – The contractor finished the internal draft of the report and sent the draft report to City of Bowie, MDOT SHA and PG county for review and collecting responses/comments.
- Rails with Trails Phase 3 Bypass Design (City of Frederick) – City of Frederick prepared a 15% design layout and typical sections for 2 alternatives along MD 26 for the East Street Rails with Trails project. Preliminary 30% design is scheduled for completion by May 14. Final 30% design is scheduled to be completed by June 10.
- Visually Impaired Urban Navigation (Montgomery County) – The consultant submitted a draft of the final report, "Designing Streets for People with Vision Disabilities Toolbox" last week to jurisdiction staff, and is working on finalizing a Ellsworth Drive/Fenton Street concept for the report's appendix.

- Cool Spring & Adelphi Road Ped & Bike Access Improvement (Prince George's County) – The Cool Spring Road project is underway and on schedule to be completed. This month, weekly meetings are underway to prepare for the June public meeting.
- Riggs Road Neighborhood Bicycle Boulevards (Prince George's County) – The team moved toward completing the project.
- Maple Avenue Complete Street Design (Takoma Park) - The site survey was completed as scheduled by the last week of April and the project team was able to setup the design files and begin the 30% CD production.
- Low-Income Fare Pass Assessment (Alexandria) – The project was complete and a final draft report was submitted.
- Micro-Mobility Transit Hub Prototype (Arlington County) – The consultants have a draft circulating with jurisdiction staff undergoing further revisions.
- Curb Space Allocation Tool (Arlington County) – The project moved toward conclusion.
- Trail Connection – Co Parkway & Cross Co Trail (Fairfax County) – The county has completed its deliverables as of May 10 for the Fairfax Trail Connector project. 30% design drawings, cost estimate, and final report have been completed for the project.
- Fairfax Circle Visioning and Multimodal Intersection (City of Fairfax) – Consultant and City staff have developed the vision and goals and presented to the City Council on April 6. The consultant is refining and analyzing the three alternatives that came out of the staff work sessions. City staff plan to present these alternatives to City Council on June 1 and share them with the public on the project webpage.
- Shared Micromobility Feasibility Study (Herndon) – The Herndon Micromobility TLC project has been moving along nicely. The final meeting will be taking place on June 4th. The project appears to be on track.
- Peak Hour Express Bus and HOV Feasibility (Prince William County) - Progress conference calls were held with the consultant and county staff on April 8 and 22. Consultant provided the latest draft document for the project including recommendations and implementation. The project is on track to be completed by June 30.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB SUPPORT AND MANAGEMENT	\$858,369	\$37,519	60%	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 Citizens Advisory Committee (CAC)
- TPB Access for All (AFA)
- Regional Public Transportation Subcommittee (RPTS)
- Bicycle & Pedestrian Subcommittee
- COG Planning Directors
- TPB Freight Subcommittees

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 May 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 Citizen's Advisory Committee and the TPB Board meetings.

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

- 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

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.

Task 11	BUDGET	Billed this month	% Funds Expended	UPWP Page
TECHNICAL ASSISTANCE	\$968,827	\$49,998	44%	59
District of Columbia	\$71,400	\$7,615	76%	59
Maryland	\$330,001	\$11,913	45%	61
Virginia	\$385,000	\$11,496	45%	63
WMATA	\$182,226	\$18,973	44%	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 provided detailed information about the data contained in the DDOT Count Archive to DDOT staff who are preparing the requirements for a DDOT traffic count centralization project.

Staff continued to work with DDOT staff to develop a project to standardize historic traffic monitoring data from the last decade. After staff received information about the files DDOT would like to standardize, staff reviewed the information, asked questions, and began to develop a scope of work.

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.

Feasibility/Special Studies

Traffic Relief Plan (TRP) Project Development Activities

Staff continued to monitor project development activities for MDOT projects related to the Traffic Relief Plan. TPB staff attended an I-495 & I-270 Managed Lanes Study Interagency Working Group meeting, at which a revised recommended preferred alternative (RPA) was announced. This new RPA, referred to as Alternative 9 – Phase 1 South, includes the same two High-Occupancy Toll (HOT) lanes on the Beltway and I-270 as previously announced, but only within the Phase 1 limits (i.e., at

this time, there is no action taken on i-495 east of the I-270 East Spur), This revised alignment will be assumed in the upcoming 2022 Update to Visualize 2045.

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 under this PE number. See TLC item above (9.3) for further details about the TLC Program.

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 monitored the consultant's progress in conducting the spring non-motorized counts along the Washington and Old Dominion (W&OD) trail. Staff answered questions from the consultants and began to review the count files and videos received from the consultant.

Sub-Regional Planning Study

Park and Ride Study

The consultant, VDOT, and COG/TPB participated in a regular monthly check-in meeting. VDOT collected comments from stakeholders on the draft final report and submitted them to the consultant. The consultant used this input, along with comments from VDOT and COG/TPB to update and finalize the report.

The project manager reviewed and commented on an outline for the story map as well as the draft story map later in the month.

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 for further details about the TLC Program.

11.4. Regional Transit

Program Development

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

Staff participated in a meeting organized by MDOT MTA to discuss regional coordination on Maryland House Bill 1236. Staff previously helped to arrange the meeting by connecting MDOT MTA to members of the former Technical Advisory Committee for the MARC-VRE Run Through Service Market Assessment and Technical Considerations Study.

Transit Within Reach

Staff posted the application and abstract form to the website.

An announcement about the program, including abstract due date, was delivered during the May 7th TPB Technical Committee meeting. With the help of the communications, an email blast announcement about the program was distributed on May 3rd.

Staff coordinated internally to identify and recruit members of the selection panel.

Four abstracts were submitted by member jurisdictions on May 18th. Staff reviewed and provided input on them.

A list of the questions in the application was posted on the Transit Within Reach website.

High Capacity Transit Map

A coordination meeting was held with WMATA to discuss the FY 2022 technical assistance projects, the meeting focused on refining the proposal for the high-capacity transit map.

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 PE Number. See TLC item above (9.3) for further details about the TLC Program.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

Continuous Air 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 anticipates submitting the revised grant application in early June.

Comprehensive Regional Air System Plan Update – Phase 3

No activity.

Survey Response Rate and Quality Study

Staff reviewed the draft Task 3 Technical memorandum deliverable and provided comments to the consultant team, which revised and delivered the finalized technical memo later in May. The Technical Advisory Committee (TAC) for this study held its final meeting May 13, providing the final input to the consultant team need to prepare the final report deliverable anticipated for delivery in June. The consultant team briefed the TPB Aviation Technical Subcommittee on the status of the project at its June 27 meeting.

Process 2019 Air Passenger Survey - Phase 2

Staff presented the geographic findings of the 2019 Washington-Baltimore Regional Air Passenger Survey to the TPB Travel Forecasting Subcommittee at its May meeting.

Aviation Technical Subcommittee

The Aviation Technical Subcommittee met on May 27th. The discussion included address questions and comments raised by TPB on priority ground access projects contained in the Comprehensive Regional Air Systems Plan as well as overview and update on the Air Passenger Survey Response Rate & Quality study recommendations.

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

Public Participation Plan

- TPB approval: October 2020

Public Opinion Survey for Visualize 2045

- Survey instrument and methodology developed: July-August 2020
- Respondents complete survey: September-October 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: Summer 2021

Phase II Outreach for Visualize 2045

- Design and planning – March-May 2021
- Launch (signs with QR codes posted throughout the region) – June 2021
- End of Phase II outreach – July 2021
- Analysis of input – August-September 2021

Transit Access Focus Areas Study

- Completed: July 2020

Develop Regional Highway Safety Targets

- Draft targets presented in November 2020
- Final targets adopted in December 2020

Develop Regional Safety Study Final Report

- Estimate completion June 2021

Develop and Implement Regional Safety Program

- Pilot Program Project Solicitation complete March 2021
- TPB Approval of Initial Set of Projects complete July 2021

Bicycle and Pedestrian Plan

- Completion of the plan update is anticipated within the first quarter of FY 2022.

National Capital Regional Trail

- Completed. Follow on actions continue leading toward future annual updates.

Metropolitan Washington Regional Intelligent Transportation Systems Architecture (MWRITSA)

- The most recent MWRITSA full update was posted on the TPB website in July 2019. No recent adjustments or updates have been requested by member agencies.

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

May 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	960,952.80	113,832.59	89%
SUBTOTAL	1,085,010.00	960,952.80	113,832.59	89%
2. Transportation Improvement Program				
Transportation Improvement Program	268,484.00	198,019.68	18,434.10	74%
TIP Database Support	170,000.00	178,344.00	0.00	105%
SUBTOTAL	438,484.00	376,363.68	18,434.10	86%
3. Planning Elements				
Congestion Management Process	504,501.00	287,930.38	27,274.52	57%
Systems Performance, Ops & Tech Planning	706,686.00	427,371.87	38,367.68	60%
Transportation Emergency Preparedness Planning	124,046.00	63,663.55	1,519.66	51%
Transportation Safety Planning	258,367.00	201,004.58	23,832.44	78%
Bicycle & Pedestrian Planning	151,252.00	145,165.90	13,170.84	96%
Regional Public Transportation Planning	368,910.00	289,047.28	73,748.44	78%
Freight Planning	140,466.00	136,278.20	18,305.63	97%
Metropolitan Area Transportation Operation Coord Program Planning	168,289.00	99,953.17	8,726.40	59%
Performance-Based Planning & Programming	280,399.00	205,159.24	20,212.78	73%
SUBTOTAL	2,702,916.00	1,855,574.18	225,158.39	69%
4. Public Participation				
Public Participation	1,018,896.00	942,424.19	70,541.37	92%
SUBTOTAL	1,018,896.00	942,424.19	70,541.37	92%
5. Travel Forecasting				
Software Support	198,271.00	142,010.38	11,048.58	72%
Network Development	999,084.00	855,944.23	85,498.33	86%
Model Development	1,789,137.00	1,103,566.59	64,559.81	62%
SUBTOTAL	2,986,492.00	2,101,521.21	161,106.72	70%
6. Mobile Emissions Planning				
Air Quality Conformity	849,138.00	732,214.93	64,511.76	86%
Mobile Emissions Analysis	961,454.00	769,569.37	82,694.82	80%
SUBTOTAL	1,810,592.00	1,501,784.30	147,206.58	83%
7. Travel Monitoring and Data Programs				
Regional Travel Survey	354,494.00	332,208.26	15,684.40	94%
Traffic Analysis & Research	360,344.00	271,564.01	13,175.97	75%
Regional Transportation Data Clearinghouse	326,087.00	267,738.13	16,942.75	82%
GIS Analysis	617,470.00	511,429.31	46,873.79	83%
SUBTOTAL	1,658,395.00	1,382,939.71	92,676.92	83%
8. Planning Scenarios and Socioeconomic Forecasting				
Socioeconomic Forecasting	1,032,477.00	702,703.21	58,598.51	68%
Scenario Planning	438,466.00	211,971.37	39,311.78	48%
SUBTOTAL	1,470,943.00	914,674.58	97,910.29	62%
9. Mobility and Enhancement Programs				
Transportation and Land Use Connections Program	435,840.00	317,037.18	68,696.37	73%
Enhanced Mobility Grant Program	164,038.00	70,099.38	6,792.37	43%
Transportation Alternatives Set-Aside Programs	24,574.00	22,020.97	3,075.95	90%
SUBTOTAL	624,452.00	409,157.53	78,564.69	66%
10. TPB Support and Management				
TPB Support and Management	858,370.00	512,126.41	37,519.83	60%
SUBTOTAL	858,370.00	512,126.41	37,519.83	60%
SUBTOTAL CORE PROGRAM ITEMS 1-10	14,654,550.00	10,957,518.58	1,042,951.49	75%
TECHNICAL ASSISTANCE				
District of Columbia Technical Assistance	71,400.00	53,961.70	7,615.74	76%
Maryland Technical Assistance	330,001.00	149,311.73	11,913.20	45%
Virginia Technical Assistance	385,000.00	172,114.32	11,496.21	45%
WMATA Technical Assistance	182,226.00	54,453.68	18,973.16	30%
Technical Assistance Program Total	968,627.00	429,841.44	49,998.32	44%
TPB GRAND TOTAL	15,623,177.00	11,387,360.01	1,092,949.80	73%

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

May 2021
SUPPLEMENT 1

	TOTAL AUTHORIZED TOTAL BUDGET EXPENDITURES		FTA/STA/LOC AUTHORIZED FTA BUDGET EXPENDITURES		PL FUNDS/LOC AUTHORIZED FHWA BUDGET EXPENDITURES	
A. District of Columbia Technical Assistance						
Program Development & Misc	10,000.00	7,516.79	803.98	604.33	9,196.02	6,912.46
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	5,083.50	1,607.95	408.70	18,392.05	4,674.80
SUBTOTAL	71,400.00	53,961.70	5,740.38	4,338.39	65,659.62	49,623.31
B. Maryland Technical Assistance						
Program Development & Misc	15,000.00	5,480.12	1,205.96	440.59	13,794.04	5,039.53
Feasibility/Special Studies	55,001.00	20,024.34	4,421.94	1,609.91	50,579.06	18,414.44
Transportation/Land Use Connection Program	260,000.00	123,807.27	20,903.36	9,953.80	239,096.64	113,853.47
SUBTOTAL	330,001.00	149,311.73	26,531.27	12,004.29	303,469.73	137,307.44
C. Virginia Technical Assistance						
Program Development & Misc.	15,000.00	6,138.58	1,205.96	493.53	13,794.04	5,645.06
Travel Monitoring	96,000.00	32,615.06	7,718.16	2,622.17	88,281.84	29,992.89
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	48,770.46	8,200.55	3,921.02	93,799.45	44,849.44
Transportation Land Use Connections	160,000.00	73,330.25	12,863.60	5,895.57	147,136.40	67,434.68
SUBTOTAL	385,000.00	172,114.32	30,953.05	13,837.57	354,046.95	158,276.75
D. WMATA Technical Assistance						
Program Development & Misc	5,000.00	4,385.14	5,000.00	4,385.14	0.00	0.00
Other Tasks D.3	177,226.00	50,068.54	177,226.00	50,068.54	0.00	0.00
SUBTOTAL	182,226.00	54,453.68	182,226.00	54,453.68	0.00	0.00
GRAND TOTAL	968,627.00	429,841.44	245,450.70	84,633.93	723,176.30	345,207.51