

FY 2021



National Capital Region
Transportation Planning Board

Work Program Progress Report

November 2020

FY 2021

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The TPB approved its FY 2021 Unified Planning Work Program (UPWP) in March 2020. The TPB Work Program Progress Report provides a short summary of each activity for the month of November. 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	8. SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING 8.1 Scenario Planning 8.2 Socioeconomic Forecasting
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	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	\$70,293	38%	31

1. LONG-RANGE TRANSPORTATION PLANNING

1.1 Long-Range Transportation Plan

Staff began to onboard an employee that started work in November 2, 2020. The survey that LRTP staff developed in coordination with public participation staff was completed and the staff worked with the consultant to discuss the approach to reporting and analyzing data from this survey. Staff began coordinating with the public participation team to prepare for Focus Groups which will inform the LRTP. The team also began researching tools that could be used to conduct virtual public outreach activities anticipated for the summer of 2021. Staff continued to discuss and determine the materials to develop for the 2021 public comment period on LRTP/AQC inputs. Staff are considering the Title VI implications for all communications and activities. Staff continued a project to develop infographics and brief videos to communicate about the TPB, Visualize 2045, system performance and the Aspirational Initiatives. 3 infographics are complete, and three motion graphics are complete, and are now being translated into Spanish.

Staff began to implement the LRTP workplan. Staff prepared for an interdepartmental meeting to share information about activities related to the LRTP and to coordinate on the LRTP development. Staff continued developing the plan outline and is gathering specific information that will be used in the plan. Staff continued testing new performance measures being considered to enhance the LRTP performance reporting.

Staff updated and presented the draft technical inputs solicitation guide and appendix for the LRTP update, TIP, and associated air quality conformity inputs. Staff presented this to the STWG, TPB Technical Committee and the Board. Staff reviewed comments received and made edits to the document considering those comments.

Staff finalized the outline for a new Visualize 2045 website and kicked off the contract with a graphic design firm to cost-effectively build out this new website. The designers have, based on TPB direction, initiated developing design options.

Staff continued coordinating with other DTP staff to conduct a CAV webinar series related to CAV bicycle and pedestrian planning and infrastructure enhancements, Staff kicked off a new task order that will document regional climate resiliency/stormwater planning and identify regional strategies for resiliency/stormwater management through transportation projects and programs.

1.2 Federal Compliance

The Fredericksburg MPO hired a new Transportation Planning Director who started in November, and a meeting will be scheduled to introduce them to the MOU update, and to the TPB staff in early December.

1.3 Policy Board-Directed Activities

There are no board-directed activities under this task at this time.

Task 2	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRANSPORTATION IMPROVEMENT PROGRAM	\$438,483	\$106,150	41%	33

2. TRANSPORTATION IMPROVEMENT PROGRAM

2.1 Transportation Improvement Program (TIP)

TPB staff continued to work on a development plan for the FY 2023-2026 TIP and began the process of cleaning up data records for inactive and completed TIP projects and long-range plan projects.

2.2 TIP Database Support

During the month of November, EcolInteractive completed the following tasks pertaining to the reorganization of data and fields on the LRPT and TIP forms:

- Finalized values for Primary Project Type TIP forms
- Removed the unused TCM and Capacity fields
- Updated County field logic to include “Washington” as a county do that routes in the District of Columbia might be selected from the predefined values that poOpulate the Route field
- Changed Highway Segments to Roadway Segments and updated associated logic
- Removed functionality to email program managers when projects get MPO approval
- Added “Conformity Narrative” to Conformity Information reports, detailing changes made to each record
- Developed and edited Bike Ped Listing Reports

Ecolinteractive began work on the following items this month:

- Development of new Congestion Management Information section and move CMP and congestions questions there.
- Create a new conformity Information and move “Model” and conformity location records here.
- Create Environmental Information section and move Environmental Mitigations question and NEPA review questions there.
- Add Change Report sub-report back to TIP Overview reports.

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING ELEMENTS	\$2,952,916	\$142,780	25%	35

3. PLANNING ELEMENTS

3.1 Performance-Based Planning

Staff completed drafting a report on the regional Transit Safety targets. The board was briefed on the final draft targets and approved them at the November TPB meeting. Staff worked on the materials for the draft regional Highway Safety targets, which were presented to the TPB Technical Committee and the board.

Staff continued discussion on the content and work items regarding PBPP for the 2022 version of the Visualize 2045 long range transportation plan.

3.2 Congestion Management Process

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. Staff presented on this topic at the November 10 TPB Access for All Advisory Committee meeting, as well as the November 17 Commuter Connections Subcommittee meeting.

CMP data compilation and analysis continued toward future editions of the National Capital Region Congestion Report quarterly website “dashboard”.

3.3 Systems Performance, Operations, and Technology Planning

In coordination with the Long-Range Transportation Planning Task 1, a consultant team with staff oversight kicked off a new project entitled “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 May 2021.

Planning for future TPB Connected and Autonomous Vehicles (CAV) webinars continued.

3.4 Transportation Emergency Preparedness Planning

In lieu of a November 2020 Transportation Emergency Preparedness Committee (R-ESF 1) meeting, information sharing continued among committee members and staff on 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 presented the draft regional highway safety targets to the Technical Committee and Transportation Planning Board.

Staff finalized the structure of the Regional Safety Program and presented it to the STWG, the Technical Committee and the Bicycle and Pedestrian Subcommittee.

Agenda developed and speakers secured for the regularly scheduled December 8, 2020 meeting of the Transportation Safety Subcommittee.

For the Analysis of Regional Roadway Safety Outcomes study, the consultant team conducted a training session for TPB staff on how to incorporate new crash data from the states into the regional safety dataset and how to update the charts and graphs used to communicate the regional safety picture to committee members and stakeholders.

3.6 Bicycle and Pedestrian Planning

The regularly scheduled November 17, 2020 meeting of the Bicycle and Pedestrian Subcommittee was organized and conducted. The agenda included a briefing on the most recent update of the MoveDC Long Range Plan and Bicycle Priority Network, and a briefing on the on-line portal for the bike/ped project database, a key element of the Regional Bicycle and Pedestrian Plan update.

Staff participated in the Virginia State Trails Advisory Committee meeting on November 17 and the Capital Trails Coalition steering committee meeting on November 19. At these meetings staff responded to questions from the public on transportation safety, traffic calming, and other topics.

Staff identified speakers, developed a draft agenda, and identified possible dates for a professional development workshop on Vision Zero Arterial Design, one of a series of such workshops sponsored by the Bicycle and Pedestrian Subcommittee.

3.7 Regional Public Transportation Planning

The Regional Public Transportation Subcommittee met on November 24, remotely. The agenda included a presentation on the services provided by the private firm, Via; an update on the launch of Montgomery County's US 29 Flash BRT system; and regional information gathered regarding transit operations and Covid-19.

Staff sent out a revised questionnaire to the MATOC Transit Task Force to collect responses on transit service during and recovery from the pandemic. Staff discussed public transportation items for the 2022 version of the Visualize 2045 long range transportation plan.

TPB staff participated in MATOC Transit Task Force calls and discussed options for assisting the region's transit providers in coping with the pandemic and the recovery of transit systems. Staff attended a WMATA JCC meeting and WMATA's Annual Regional Bus Ridership Workshop and a meeting on the MD Statewide Transit Plan.

3.8 Freight Planning

The regularly scheduled November 12 meeting of the Freight Subcommittee was organized and conducted. The meeting featured a discussion session with a panel of representatives from important regional food and beverage distributors. Topics included the impacts of the pandemic on delivery operations, private sector feedback on recent government initiatives (temporary Pick-up/Drop-off zones, street cafes, slow streets, bus lane projects, etc.), and panelist perspectives on what a post-pandemic "normal" might look like for their businesses.

Staff continued work to identify and geolocate significant truck trip generators, including the locations of gravel and aggregate mines, both within the TPB modeling area and in surrounding states.

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 November 13 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.

The regularly scheduled virtual November 17 meeting of the MATOC Severe Weather Coordination Working Group was organized and conducted, continuing planning for winter weather response coordination.

A November 18 virtual meeting of the MATOC Transit Task Force, as well as a November 19 virtual meeting of the MATOC Operations Subcommittee, were organized and conducted, to continue to coordinate on COVID-19's impacts on transit and roadway operations.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION	\$1,018,896	\$69,168	41%	41

4. PUBLIC PARTICIPATION

4.1 Public Participation and Outreach

Staff finalized recommendations for restructuring the TPB Community Advisory Committee. The restructuring will include 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 will now be called the Community Advisory Committee. Staff recommendations were first presented to the TPB in October. Based on input received, staff modified its proposal which the TPB approved in November.

A region-wide public opinion survey on transportation was closed at the end of October. In November, analysis began to review the input. More than 2,400 responses were received, which greatly exceeded the target of 2,000. The responses also generally met the targets for 10 subregional (largely county-level) geographies. For eight of these geographies, response targets were exceeded, while the responses for the other two geographies reached more than 90% of the target numbers.

Staff continued planning for qualitative research that will complement the opinion survey that was conducted in the fall. These activities are expected to feature 8-10 focus groups, which will be held in January and February of 2021. In November, staff worked with consultants on a plan to recruit participants for the sessions. Staff also planned the approach and content for the focus groups.

The 2020 CAC met for an online-only meeting on Thursday, November 12. At the meeting, the committee discussed recommendations for updating the CAC and upcoming activities and a timeline for the development of the update to Visualize 2045, the region's long-range transportation plan.

A replacement Chair for the Access for All Advisory Committee was confirmed and will be announced at the January TPB meeting.

Staff held a virtual AFA committee meeting on November 10:

- Staff from Metro presented on WMATA's 2020 Title VI Program, including: compliance procedures, public participation, and the Language Assistance Plan.
- A series of presentations on the impacts of COVID-19 on transportation and travel in the region followed:
 - Staff provided an overview of the impact of and responses to COVID-19 by Enhanced Mobility grant projects.
 - Two subrecipients of Enhanced Mobility presented on innovative practices they've undertaken to allow for continued delivery of services to older adults and people with disabilities, including virtual training.
 - Staff shared preliminary results of research on data and information about COVID-19's transportation impacts on travel, roadway traffic volumes, transit, safety, speeds, and other regional impacts. Staff also advised of planned activities to continue to monitor and analyze the impacts, including a collaborative, multi-sector assessment of the data.
- A committee member announced their participating in the DC Transportation Equity Network (DC TEN), a "cross-sector coalition of organizations committed to seeing a complete transportation system that ensures vulnerable travelers are accounted for in the District of Columbia."
- Chair Kostiuk advised members that a new AFA Chair has been found and will be formally announced at the January TPB meeting.

Staff met virtually with members of WMATA's Accessibility Advisory Committee (AAC) and reached out to three AFA members to determine interest in being nominated to the vacant seat of the late Charlie Crawford. Chair Kostiuk issued a letter to the AAC, putting forth three nominees for consideration.

4.2 Communications

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

- A brief recap of the November TPB meeting, November 23, 2020
- These 7 bike and pedestrian projects will further regional priorities, November 23, 2020
- Join the TPB's CAC, November 23, 2020

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

Staff updated pages on the COG website related to transportation. Staff also planned updates of the website.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	\$3,846,492	\$183,546	25%	43

5. TRAVEL FORECASTING

5.1 Network Development

In response to a data request from the consultant on the Gen3 Model development project, staff had an internal discussion on the benefits, challenges and timing associated with the development of a transit network in four time-of-day periods. Staff decided to develop transit networks in four time periods and plans to develop the base-year network by April and the horizon-year network by September.

Staff responded to a Virginia Department of Transportation (VDOT) question regarding the use of limit codes in the regional networks. Staff responded to a network question from Montgomery County staff related to high-occupancy vehicle (HOV) coding on I-270.

Staff completed development of the bus fare matrix for the upcoming air quality conformity analysis of the 2022 update to Visualize 2045. The bus fare matrix reflects WMATA Tariff #39 (effective July 1, 2019) in addition to the most up-to-date fares for commuter rail and bus providers that are not part of the WMATA tariff system.

Staff continued coordination with the consultant regarding export features in the Project InfoTrak (PIT) database. Staff is working to assure that the exported project information matches that in the air quality conformity inputs table from the 2020 Amendment to Visualize 2045.

Staff used Google Maps to identify completed projects in the District of Columbia that are listed with completion dates that have passed in the air quality conformity input table for the 2020 Amendment to Visualize 2045.

Staff attended a FHWA webinar, on November 2, on functional classification of roads and urban area boundaries.

Based on internal staff feedback regarding a unified geodatabase system (UnifiedDB/App) that supports transportation networks in both Cube TRNBUILD and Public Transport (PT) formats, staff improved the system with several bug fixes and enhancements. Staff developed the 2019 network in PT format and incorporated it into the final unified geodatabase. Staff created a draft memo on the latest version of the UnifiedDB/App and shared it with COG staff for internal testing.

Staff provided preliminary review on the COGTools User’s Guide and suggested ideas for a major update on this document. Staff plan to update the document in the second half of FY 2021.

5.2 Model Development and Support

The Travel Forecasting Subcommittee (TFS) meets in odd-numbered months. Staff finalized the meeting highlights from the September meeting. At the November 20 meeting, the following items were discussed:

- Overview of the recent transportation modeling activities at the Prince George’s County Planning Department at M-NCPPC
- Arlington County’s new tour-based travel model
- COG/TPB Gen3 Travel Model: Status report
- Announcement of new chair for 2021
- Roundtable discussion of current modeling efforts around the region
- Other Business
 - Big Data Evaluation

- Monthly snapshots of effects of COVID-19 on travel available on COG website
- Meeting schedule for CY 2021 and scheduling future TFS presentations
- Gen2/Ver. 2.4 Model release schedule

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

Staff created a memo that documents the year-2019 observed daily vehicles miles of travel (VMT) by Federal Functional Classification (FFC) of roadways. This data is compiled on an annual basis and has been used for both model development and model application purposes.

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

At the November TFS meeting, staff announced the plan to release the Version 2.4 Travel Model in the first quarter of 2021.

In preparation for a Version 2.4 Travel Model transmittal package, staff continued updating the model user's guide.

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 three check-in meetings with RSG and BMG, the consultants on the Gen3 Model development project (November 5, 17 and 19).
- In support of the Gen3 Model data needs, as outlined in an RSG memo (last updated December 1), staff collected and processed some data items. Specifically,
 - Item #14: Staff updated the memo on the proposed 2018 transit crowding specifications based on feedback from RSG. Staff sent the memo to WMATA staff for their review and requested additional data from WMATA that may enhance the transit crowding specifications.
 - Item #15: Staff transmitted survey data files, from the COG Regional Travel Survey (RTS) and the Maryland Travel Survey (MTS), to RSG on November 13. Staff performed reasonableness/logic checks on the combined data sets and created a memo that summarizes the findings and proposed next steps.
 - Item #21: Staff reviewed the 2018 traffic count data prepared by COG's Planning Data and Research (PDR) team and created a technical memorandum documenting findings and questions.
 - Item #22: Staff requested the 2018 Metrorail hourly origin-destination volume data from WMATA, performed initial data processing and shared the data with the consultant for further processing. Staff held a meeting with WMATA on November 17 to learn about the possibility of obtaining additional Metrorail and Metrobus ridership data related to the WMATA TRACE Model.
- Staff conducted preliminary testing on re-weighting the RTS-MTS combined data using the PopulationSim-based reweighting process developed by RSG. Staff reported initial findings and issues to RSG.
- Staff conducted preliminary testing on the PopulationSim-based MWCOC population synthesizer developed by RSG. Staff also started to review the documentation.

Other activities

Staff serviced ten data requests: Two requests were academic (MIT and University of Maryland) and eight requests were from consultants working for VDOT or MDOT SHA. The requested data included:

Ver. 2.3.75 and Ver. 2.3.78 travel models, traffic volumes on screen lines, Round 9.1a zonal land activity files, loaded-link highway network files, trip tables containing person trips, zone-to-zone trip flows for the entire modeled area in comma-separated-value (CSV) format for the years 2019 and 2030 from the Version 2.3.78 Travel Model, and person trip tables and vehicle trip data, in CSV format, for the years 2019 and 2045 from the Version 2.3.75 Travel Model.

Staff fixed an error in the form located on COG’s Data Request webpage. Staff attended a webinar, on November 12, regarding data workflows and analysis tools. Staff attended a COG Racial Equity Listening Session on November 16. Staff participated in and presented at a workshop, on November 18, entitled, “Machine Learning Emission Model and Its Performance.”

Staff held an ActivitySim check-in meeting with AMPO staff on November 19 and had an internal debrief meeting on November 30. Some staff registered for the upcoming 100th TRB Annual Meeting.

Task 6	Budget	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$1,835,592	\$130,368	34%	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, including air quality conformity analysis, system performance, and environmental justice analysis.

Staff attended a VDOT coordination call with the Virginia Railway Express (VRE) and Northern Virginia Transportation Commission (NVTC) regarding the Long Bridge, VRE 3rd and 4th track, and VRE service change projects for the upcoming air quality conformity analysis of the 2022 update to Visualize 2045.

Staff continued to participate in the Scenario Planning Project Oversight Committee and provide feedback to the study team.

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

6.2 Mobile Emissions Analysis

Staff participated in an Emissions Inventory Subcommittee call on November 10 to discuss a request to the state air agencies for the latest set of vehicle registration data for use in forecasting emissions estimates for air quality conformity, State Implementation Plan (SIP) inventory work, development of greenhouse gas (GHG) inventories, and assistance with National Emissions Inventory (NEI) work. State air agencies discussed expected timelines for providing the raw December 2020 vehicle registration data to TPB staff, and the group agreed to provide the data to COG staff by February 19, 2021. Following the meeting, DTP staff formally requested the data from the three state air agencies through COG’s Department of Environmental Programs (DEP) staff.

DTP staff continued to work with DEP staff, member jurisdictions, and state air agencies to facilitate various aspects of air quality and greenhouse gas (GHG) planning activities. In support of the climate action planning, DTP staff worked jointly with DEP staff to draft the transportation section of the Metropolitan Washington 2030 Climate and Energy Action Plan. The plan and the supporting documentation were finalized and adopted at the November 18, 2020 Climate, Energy and Environment Policy Committee (CEEPC) meeting.

DTP and DEP staff, and COG executive office representatives, coordinated activities with our members regarding the Transportation and Climate Initiative (TCI). DTP staff provided a TCI briefing to the Air and Climate Public Advisory Committee (ACPAC) on November 16.

DEP and DTP staff worked jointly on the multi-sectoral study analyzing the impacts of COVID-19 related restrictions on different sectors. DEP staff contributed to the Scope of Work for the study and on information related to air quality and GHG emissions.

DTP staff participated in a Multi-Jurisdictional Organization (MJO) MOVES Group webinar to learn more about the EPA’s newly released mobile emissions model, MOVES3, which was released in November.

DTP staff 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 Version 2.4 Travel Demand Model that is expected to be released by COG in early 2021 and to introduce innovative new processes (e.g., machine learning). In support of developing a machine learning emissions modeling (MLEM) capability, staff provided an internal update on the development of the tool to other technical staff.

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	\$2,164,394	\$126,273	34%	47

7. TRAVEL MONITORING AND DATA PROGRAMS

7.1 Travel Surveys

Tasks were focused on preparing the combined data files for the TPB model region, in addition to preparing the technical documentation for the Regional Travel Survey (RTS) data files. This includes all households, persons, and trips from the RTS and three overlapping BMC counties that participated in the Maryland Travel Survey (MTS). Staff conducted the following activities:

- Prepared tabulations of the RTS trip file for the TPB Planning Region to be shared in a series of presentations to the TPB Technical Committee and the Transportation Planning Board.
- Provided the combined RTS/MTS dataset and data dictionary to the Gen3 Model Development Team, which will be used to develop the PopulationSim model.
- Participated in biweekly meetings with the Gen3 Model Development Team.
- Shared additional findings from the RTS trip file to the TPB Technical Committee on November 6.
- Provided a brief update on the RTS to the Travel Forecasting Subcommittee on November 20.
- Gathered transportation surveys measuring the impacts to travel behavior from COVID-19 that inform regional transportation planning.
- Responded to requests for the 2007/8 and 2017/8 RTS.

7.2 Traffic Analysis Studies, and Research

Staff began developing the next in a series of snapshots to illustrate how the COVID-19 pandemic is impacting travel in the Metropolitan Washington Region after receiving September and October continuous count station data from MDOT, VDOT, and DDOT.

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 continued to develop programs to read historical hourly non-motorized continuous count data and to process, check, and analyze those data.

Staff drafted a preliminary document to summarize the data needed and solutions to a list research questions collected from regional stakeholders. Staff met internally to discuss the document and to prioritize the questions.

Staff developed a SAS program that automatically generates logs; this increases efficiency while working in interactive SAS sessions.

Staff reviewed and provided internal comments on data from the MARC-VRE Run Through Service Market Assessment that was included in VDRPT's presentation to the TPB on the Long bridge and associated track projects.

Staff prepared a response to an inquiry from Montgomery County Planning Department about the RTS and school trips.

Staff met with the Greater Washington Partnership to discuss the proposed framework for an upcoming economic and accessibility benefits analysis for the Regional Rail Vision. Following the conversation, staff followed up and provided Cooperative Forecast Round 9.1a files, Visualize 2045 performance analysis files, and accessibility analysis output files.

In support of the Community Planning Department, staff shared an excel workbook with 2012-2016 Census Transportation Planning Package (CTPP) County to County flow tables by means of transportation as well as a corresponding memo to assist with analysis of regional land use and transportation trends.

In support of the Plan Development and Coordination Team, staff:

- Provided input on the format of the final deliverables for the public opinion survey
- Provided input on an inquiry from MDOT about data to support the State Rail Plan

Staff participated in the following meetings and forums:

- Gen3 Model Check-in meetings
- Department of Transportation Planning Equity Peer Exchange and Listening Session
- FHWA Functional Classification and Urban Area Boundary Training; staff also organized this training opportunity
- An internal debrief about the Highway Information Seminar
- Administrative Requirements and Cost Principles for Federal Awards
- A demo and focus session with Remix (a follow up to the November demonstration)

Big Data in Regional Travel and Mobility Analyses

The consultant scheduled and convened initial coordination meetings with DDOT, MDOT, VDRPT, VDOT, and WMATA to discuss the background of the project, obtain more information about current activities related to and use of big data, and to obtain initial input to develop an actionable path toward Big Data Procurement. COG Staff participated in these meetings.

7.3 Regional Transportation Data Clearinghouse (RTDC)

Staff requested and received highway hourly continuous counter data for October 2020 from Maryland, Virginia, and the District of Columbia.

Staff completed the process of assigning annualized 2018 traffic volumes and related HPMS items to network links to pass on to the Travel Forecasting and Emissions Analysis Program (TFEA) team and their contractor, RSG, for Gen3 Model development. The resulting file was provided to the TFEA team for review with a detailed memo documenting the count assignment and update process. After review by the TFEA team, staff provided answers to several questions in a supplemental memo. Once final revisions are made, this layer will be used to populate the Traffic Volumes by Link RTDC layer.

Staff completed updates to the Count Station feature class including adding new stations, removing disused stations, and adjusting locations of some stations to better fit the location description and source data. Measurement directions and network Anode-Bnode pairs were also updated.

Staff processed and summarized the FY 2020 transit data for the Maryland Transit Administration (MTA) and Montgomery County Ride-On.

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. The datasets will eventually be published to the RTDC.

Staff began a review of available transit data from various publicly available sources to use as a comparison to what is currently available in the RTDC as well as TPB's in-house spatial data library (the G Drive). Staff has identified discrepancies and is working to determine the most appropriate source for all levels of transit-related data, including high capacity transit stations, station entrances, and rail lines. This work is ongoing.

Staff received some preliminary freight-related datasets from the Systems Performance Planning team to evaluate for potential inclusion in the RTDC. Staff will follow up with fellow DTP staff to develop data standards and offer guidance for the refinement of the datasets.

7.4 GIS Data, and Analysis

Staff planned and participated in the GIS Committee/GDX Working Group virtual meeting on November 17. Highlights of the meeting included: status reports on the NCR-GDX and NextGen 9-1-1, the NCR GDX Food Resources GIS Workgroup kickoff, preparations for the Inauguration, and GIS Day plans. In addition, the GIS Committee selected the Committee leadership for 2021.

Staff attended the NCR GDX Food Resources GIS Workgroup meeting on November 10.

Staff attended The Chief Information Officers (CIO) virtual meeting on November 19.

Staff continued to participate 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 began to assemble spatial data on parks and other open space to be used in the development of the Gen3 model.

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 planned and hosted the annual TPB/COG GIS Day program on November 19. The event, held virtually this year, was attended by several organizational staff, including senior management.

Staff attended and participated in several meetings (11/5, 11/12, 11/30) with the Plan Development & Coordination Team on November 5 regarding the use of geospatial data and tools for the future Visualize 2045 public comment periods. Staff will examine TPB's Project InfoTrack (PIT) database to evaluate the usefulness of the data.

Staff worked with TPB's Project InfoTrack (PIT) consultant (EcolInteractive) to answer questions related to the bicycle/pedestrian data in the PIT. Staff also attended a walk-through training of the bicycle/pedestrian data, hosted by EcolInteractive, on November 13.

Staff attended and participated in the Bicycle and Pedestrian Subcommittee meeting held on November 17.

Staff continued 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 Functional Classification and Urban Area Boundary Training, hosted by the Federal Highway Administration (FHWA) on November 2.

Staff attended the webinar "Using GIS for Data Dashboards: Oregon Transportation Safety Data Explorer (OTSDE)" hosted by FHWA on November 18.

Staff attended the Cooperative Forecasting and Data Subcommittee meeting held on November 10.

SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING	\$1,530,943	\$55,988	23%	51
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8. SCENARIO PLANNING AND SOCIOECONOMIC FORECASTING

8.1 Scenario Planning

Staff participated in a regular project management meeting with the consultant. The consultant shared an updated version of the overview memo and definition of scenario planning. The consultant also described refinements to the approaches for the upcoming memos on scenario planning tools and activities at peer agencies. Following the meeting, the project manager coordinated with Oversight Committee members to assess interest in monitoring interviews with peer agencies and obtain approval of the Overview memo and definition. The project manager also developed a short description of the project in support of an internal briefing.

8.2 Socioeconomic Forecasting

Review of initial draft Round 9.2 Cooperative Forecasts

Throughout November, DCPS staff, the Cooperative Forecasting Subcommittee and Planning Directors Committee received and reviewed initial draft Round 9.2 Cooperative Forecasts. DCPS staff noted that 10 COG member jurisdictions have elected to update their Forecasts, but the changes are incremental and will not significantly affect the regional forecast totals.

Both committees are scheduled to act on Round 9.2 at their respective meetings in December.

Also, during October, DCPS staff continued geocoding the March 2020 InfoUSA regional employment database. The final file will be compared with a similar data set for September 2020 to document regional and small-area employment and business changes during COVID. This is the first time that COG DCPS staff will undertake a six-month 'snapshot' of detailed employment databases for the region. A final version of the InfoUSA database(s) will eventually become the 2020 TAZ employment base for Round 10.

Housing Targets update

To assist with preparation of small-area housing Forecasts, DCPS staff completed and presented the 2019 Multi-family Rental Housing Report using the CoStar database that is also the source of the annual Commercial Construction report.

COVID-related impacts to the economy

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

During November, DPCS staff also updated the monthly REMS tables and analysis to reflect the more detailed indicators of COVID-related economic findings.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILITY AND ENHANCEMENT PROGRAMS	\$624,450	\$18,152	20%	55

9. MOBILITY AND ENHANCEMENT PROGRAMS

9.1 Enhanced Mobility Grant Program

Staff began the process of drafting contracts for the fourth round of Enhanced Mobility subrecipients. Two existing Enhanced Mobility subrecipients presented on innovative practices they've undertaken to continue serving older adults and people with disabilities during COVID-19.

9.2 Transportation Alternatives Set-Aside Program

Staff conducted application review activities for. For FY 2021 in D.C., the TPB had an available sub-allocation of \$1,150,000. Seven eligible applications were submitted this year. A TPB selection panel met in October and recommended full funding for all applications received for the Transportation Alternatives Set-Aside Program for the District of Columbia. The TPB voted on November 18 to approve \$727,161 in funding for the projects.

9.3 Transportation/Land-Use Connections (TLC) Program

Contracts for 14 new TLC projects were finalized in November. Kickoff meetings were conducted for nine of these projects and the other five were scheduled for December. For the 15th project for FY 2021, which was added in July, staff solicited consultant proposals. Once the proposals were received, they were sent to members of a selection panel for review and scoring. A decision on the consultant selection was expected in December.

Staff worked on solicitation materials for the FY 2022 TLC projects.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB SUPPORT AND MANAGEMENT	\$858,369	\$41,828	26%	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 November 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 months of November FY 2021 include:

- o Greater Washington Partnership TOD Study
- o CAOs Meeting
- o AEG/HG Stakeholder Effort - WMATA/DC/COG
- o LGW's Thought Leadership Series #5
- o WMATA - Discuss CLRP submittal & Climate Planning task
- o Regional Housing Summit & Playbook Launch
- o Rail Vision Data Check-in
- o Leaning in to 2021: More Equitable, More Resilient
- o Montgomery & Loudoun Counties - Climate Planning task
- o Metropolitan Washington Air Quality Committee

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	\$2,055,007	\$50,910	5%	59
District of Columbia	\$294,366	\$17,028	14%	59
Maryland	\$807,806	\$10,241	1%	61
Virginia	\$578,978	\$23,512	6%	63
WMATA	\$373,857	\$128	1%	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 received the purchase order from DDOT staff for State Planning & Research funding. Staff worked internally to set up accounting mechanisms.

11.2. Maryland

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

In response to a MDOT SHA request for vehicle occupancy and/or throughput data along I-270, US 50 HOV, and/or General purpose lanes, staff shared a copy of the: (1) 2014 Performance of High-Occupancy Vehicle Facilities on Freeways in the Washington Region and (2) Maryland Spring 2017 HOV Monitoring Report.

Staff provided Potomac bridge crossing data to a consultant working for MDOT. Staff also reminded the requestor that these data are available through the RTDC.

Staff coordinated with MDOT SHA to obtain data for the COVID-19 Travel Monitoring Snapshot.

Feasibility/Special Studies

Traffic Relief Plan (TRP) Project Development Activities

Staff continued to monitor the project development activities for MDOT projects related to the Traffic Relief Plan. TPB staff coordinated with MDOT staff on activities related to the I-495 & I-270 Managed Lanes NEPA Study and I-270 North of I-370 Pre-NEPA Study.

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 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.

Travel Monitoring and Survey

Non-Motorized/Active Transportation Counts

Staff received the Fall 2020 non-motorized count data from the contractor and began to review the Excel files for quality control purposes. This included verifying if the photos, dates, locations, and camera placements agreed with the original plan.

Sub-Regional Planning Study

Park and Ride Study

The consultant, VDOT, and COG/TPB participated in a regular monthly check-in meeting. The consultant submitted agenda items and solicited dates for the January Stakeholder meeting. The consultant also submitted the parking lot inventory data. Staff reviewed and provided feedback on these items. Staff prepared and provided trip tables by mode and purpose (HBW, HBS, HBO, NHW, and NHO) from the latest version of the Version 2.3.78 Travel Demand Model for years 2019 and 2030, in CSV format, to support analysis of future demand for park and ride usage for the needs assessment.

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.

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 above for further details about the TLC Program.

CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM

Comprehensive Regional Air System Plan Update – Phase 3

In coordination with the Office of Communications, staff published the Comprehensive Washington-Baltimore Regional Air System Plan Report and prepared a presentation for the December TPB Technical Committee Meeting.

Survey Response Rate and Quality Study

Staff awarded the study contract to TPB's on-call consultant. A kick-off meeting with the consultant team was held on November 5 and the consultant team shared the draft timeline for the project. TPB staff compiled a list of Technical Advisory Committee (TAC) member recommendations for the

consultant team. The consultant extended invitations to the TAC kick-off meeting date which is scheduled for December 10.

Process 2019 Air Passenger Survey - Phase 2

Staff completed the analysis of the 2019 Washington-Baltimore Regional Air Passenger Survey (APS), including conducting manual geocoding, creating GIS maps, and generating all tables, charts, and graphs necessary for the 2019 Washington-Baltimore Regional Air Passenger Survey Geographic Findings Report.

Aviation Technical Subcommittee

On November 19, the Aviation Technical Subcommittee held its final meeting for 2020. During the meeting, Mr. Mark Rawlings of DDOT was confirmed as the incoming subcommittee chair, and all 2021 subcommittee meeting dates were confirmed.

PROGRESS ON PLAN PRODUCTS

BIG DATA IN REGIONAL TRAVEL AND MOBILITY ANALYSES

- Completed kick-off meeting and second meeting with the Study Working Group
- 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.
- Initial coordination meeting with DDOT, MDOT, VDOT, VDRPT, and WMATA were completed.

Public Participation Plan

- Draft plan released for 45-day public comment period: August 25, 2020
- TPB approval: October 2020

Public Opinion Survey for Visualize 2045

- Survey instrument and methodology developed: July-August 2020
- Respondents complete survey: September-October 2020
- Anticipated findings analyzed and report released: December 2020 – January 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: Spring 2021

Transit Access Focus Areas Study

- Completed: July 2020

Develop Regional Highway Safety Targets

- Draft targets presented in November 2020
- Final target approval anticipated in December 2020

Develop Regional Safety Study Final Report

- Estimate completion April 2021

Develop and Implement Regional Safety Program

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

Bicycle and Pedestrian Plan

- Staff completed the compilation and clean-up of geospatial and other project data for the project database (a major basis for the plan update) submitted by the TB member jurisdictions based on their plans. From this point forward, jurisdictions will input information through an online data portal.
- Completion of the plan update is anticipated by mid-FY 2021.

National Capital Regional Trail

- Completed. Follow on actions continued 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 be in Spring/Summer 2021.
- The next update of the Coordinated Plan will occur in 2022.

FY 2020 TRANSPORTATION PLANNING BOARD

COG/TPB BUDGET EXPENDITURE SUMMARY

November 2020

	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	411,479.72	70,293.68	38%
SUBTOTAL	1,085,010.00	411,479.72	70,293.68	38%
2. Transportation Improvement Program				
Transportation Improvement Program	268,483.00	90,491.99	17,763.45	34%
TIP Database Support	170,000.00	88,387.00	88,387.00	52%
SUBTOTAL	438,483.00	178,878.99	106,150.45	41%
3. Planning Elements				
Congestion Management Process	604,501.00	133,846.18	26,191.46	22%
Systems Performance, Ops & Tech Planning	806,686.00	176,635.07	32,866.62	22%
Transportation Emergency Preparedness Planning	124,046.00	30,715.63	6,182.95	25%
Transportation Safety Planning	258,367.00	61,577.46	10,389.43	24%
Bicycle & Pedestrian Planning	151,252.00	66,517.67	12,921.93	44%
Regional Public Transportation Planning	368,910.00	82,267.67	13,263.76	22%
Freight Planning	190,466.00	62,631.23	14,178.23	33%
Metropolitan Area Transportation Operation Coord Program Planning	168,289.00	48,852.83	10,485.27	29%
Performance-Based Planning & Programming	280,399.00	88,164.43	16,300.60	31%
SUBTOTAL	2,952,916.00	751,208.15	142,780.26	25%
4. Public Participation				
Public Participation	1,018,896.00	420,520.47	69,168.49	41%
SUBTOTAL	1,018,896.00	420,520.47	69,168.49	41%
5. Travel Forecasting				
Software Support	198,271.00	49,730.50	11,536.75	25%
Network Development	999,084.00	350,928.72	75,272.87	35%
Model Development	2,649,137.00	570,346.58	96,736.73	22%
SUBTOTAL	3,846,492.00	971,005.79	183,546.34	25%
6. Mobile Emissions Planning				
Air Quality Conformity	849,138.00	324,037.59	66,427.48	38%
Mobile Emissions Analysis	986,454.00	308,331.21	63,941.25	31%
SUBTOTAL	1,835,592.00	632,368.79	130,368.73	34%
7. Travel Monitoring and Data Programs				
Regional Travel Survey	354,495.00	167,964.26	31,538.00	47%
Traffic Analysis & Research	866,343.00	128,509.86	34,274.77	15%
Regional Transportation Data Clearinghouse	326,086.00	178,046.85	24,955.45	55%
GIS Analysis	617,470.00	257,358.10	35,505.66	42%
SUBTOTAL	2,164,394.00	731,879.06	126,273.88	34%
8. Planning Scenarios and Socioeconomic Forecasting				
Socioeconomic Forecasting	1,032,477.00	321,493.36	55,283.67	31%
Scenario Planning	498,466.00	27,079.60	704.60	5%
SUBTOTAL	1,530,943.00	348,572.96	55,988.27	23%
9. Mobility and Enhancement Programs				
Transportation and Land Use Connections Program	353,274.00	85,152.66	9,801.08	24%
Enhanced Mobility Grant Program	37,693.00	30,732.53	6,210.75	82%
Transportation Alternatives Set-Aside Programs	233,483.00	11,844.59	2,140.91	5%
SUBTOTAL	624,450.00	127,729.78	18,152.74	20%
10. TPB Support and Management				
TPB Support and Management	858,369.00	220,853.70	41,828.02	26%
SUBTOTAL	858,369.00	220,853.70	41,828.02	26%
SUBTOTAL CORE PROGRAM ITEMS 1-10	16,355,545.00	4,794,497.42	944,550.86	29%
TECHNICAL ASSISTANCE				
District of Columbia Technical Assistance	294,366.00	42,515.18	17,028.11	14%
Maryland Technical Assistance	807,806.00	11,183.01	10,241.66	1%
Virginia Technical Assistance	578,978.00	37,347.72	23,512.44	6%
WMATA Technical Assistance	373,857.00	2,015.11	128.14	1%
Technical Assistance Program Total	2,055,007.00	93,061.02	50,910.36	5%
TPB GRAND TOTAL	18,410,552.00	4,887,558.44	995,461.22	27%

**FY 2020 TRANSPORTATION PLANNING BOARD
FINANCIAL STATUS OF TECHNICAL ASSISTANCE**

November 2020
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	1,153.76	870.95	100.49	9,129.05	1,053.28
Traffic Counts & HPMS Support	245,000.00	41,361.41	21,338.26	3,602.37	223,661.74	37,759.04
Other Tasks	39,366.00	0.00	3,428.58	0.00	35,937.42	0.00
SUBTOTAL	294,366.00	42,515.18	25,637.79	3,702.86	268,728.21	38,812.32
B. Maryland Technical Assistance						
Program Development & Misc	15,000.00	1,325.67	1,306.42	115.46	13,693.58	1,210.21
Planning Studies	100,000.00	0.00	8,709.50	0.00	91,290.50	0.00
Feasibility/Special Studies	50,001.00	9,857.34	4,354.83	858.52	45,646.17	8,998.82
Transportation Performance Measures	50,001.00	0.00	4,354.83	0.00	45,646.17	0.00
Training, Misc and Tech Support	100,000.00	0.00	8,709.50	0.00	91,290.50	0.00
Transportation/Land Use Connection Program	260,000.00	0.00	22,644.69	0.00	237,355.31	0.00
Other Tasks	232,804.00	0.00	20,276.05	0.00	212,527.95	0.00
SUBTOTAL	807,806.00	11,183.01	70,355.83	973.98	737,450.17	10,209.03
C. Virginia Technical Assistance						
Program Development & Misc.	15,000.00	1,199.73	1,306.42	104.49	13,693.58	1,095.24
Travel Monitoring	190,001.00	346.76	16,548.13	30.20	173,452.87	316.56
Travel Demand Modeling	100,000.00	11,067.80	8,709.50	963.95	91,290.50	10,103.85
Sub-regional Planning Studies	62,000.00	24,733.43	5,399.89	2,154.16	56,600.11	22,579.27
Other Tasks	51,977.00	0.00	4,526.93	0.00	47,450.07	0.00
Transportation Land Use Connections	160,000.00	0.00	13,935.19	0.00	146,064.81	0.00
SUBTOTAL	578,978.00	37,347.72	50,426.06	3,252.80	528,551.94	34,094.92
D. WMATA Technical Assistance						
Program Development & Misc	5,001.00	2,015.11	5,001.00	2,015.11	0.00	0.00
Other Tasks	191,130.00	0.00	191,130.00	0.00	0.00	0.00
Other Tasks D.3	177,726.00	0.00	177,726.00	0.00	0.00	0.00
SUBTOTAL	373,857.00	2,015.11	373,857.00	2,015.11	0.00	0.00
GRAND TOTAL	2,055,007.00	93,061.02	520,276.68	9,944.75	1,534,730.32	83,116.27