

FY 2019



National Capital Region
Transportation Planning Board

Work Program Progress Report

End of Year FY 2019 Accomplishments

June 2019

FY 2019

METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS

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The TPB approved its FY 2019 Unified Planning Work Program (UPWP) in March 2018 and amended it on March 20, 2019. The TPB Work Program Progress Report provides a short summary of each activity for the month May. Please reference the 2019 UPWP for details concerning the approved budget and work description for each task. This document first summarizes the work in June 2019 and then provide a summary of the FY 2019 Accomplishments. The following graphic identifies all the activities in the UPWP.

<p>1. LONG-RANGE TRANSPORTATION PLANNING</p> <p>1.1 Long-Range Transportation Plan 1.2 Long-Range Plan Task Force</p>	<p>7. COOPERATIVE FORECASTING AND TRANSPORTATION PLANNING COORDINATION</p>
<p>2. PERFORMANCE-BASED PLANNING AND PROGRAMMING</p> <p>2.1 Performance-Based Planning 2.2 Transportation Improvement Program (TIP)</p>	<p>8. PUBLIC PARTICIPATION AND HUMAN SERVICE TRANSPORTATION COORDINATION</p> <p>8.1 Public Participation 8.2 Communications 8.3 Human Service Transportation Coordination</p>
<p>3. MOBILE EMISSIONS PLANNING</p> <p>3.1 Air Quality Conformity 3.2 Mobile Emissions Analysis</p>	<p>9. TRANSPORTATION ALTERNATIVES AND LAND-USE COORDINATION PROGRAMS</p>
<p>4. PLANNING PROGRAMS</p> <p>4.1 Congestion Management Process 4.2 Systems Performance, Operations and Technology Planning 4.3 Transportation Emergency Preparedness Planning 4.4 Transportation Safety Planning 4.5 Bicycle and Pedestrian Planning 4.6 Regional Public Transportation Planning 4.7 Freight Planning 4.8 Metropolitan Area Transportation Operations Coordination Program Planning</p>	<p>10. TPB SUPPORT AND MANAGEMENT</p> <p>10.1 Transportation Planning Board (TPB) Support and Management 10.2 Unified Planning Work Program (UPWP)</p>
<p>5. TRAVEL FORECASTING</p> <p>5.1 Network Development 5.2 Models Development and Support</p>	<p>11. TECHNICAL ASSISTANCE</p> <p>11.1 District of Columbia 11.2 Maryland 11.3 Virginia 11.4 WMATA</p>
<p>6. TRAVEL MONITORING AND DATA PROGRAMS</p> <p>6.1 Household Travel Survey 6.2 Travel Monitoring Counts/Studies 6.3 Regional Transportation Data Clearinghouse 6.4 GIS Data</p>	<p>12. CONTINUOUS AIRPORT SYSTEM PLANNING PROGRAM (CASP)</p>

Task 1	BUDGET	Billed this month	% Funds Expended	UPWP Page
LONG RANGE TRANSPORTATION PLANNING	\$1,049,855	\$102,558	79%	27

1. LONG-RANGE TRANSPORTATION PLANNING

Staff began developing an approach and a draft schedule for the next quadrennial plan update, which is expected to be approved in 2022.

Staff continued working on follow-up to TPB Resolution R10-2019, including developing an approach and schedule for outreach and coordination with local TPB member jurisdictions to advance projects, programs and policies that promote the aspirational initiatives.

COG staff (who are not explicitly TPB staff) are working on activities to address another of the seven initiatives – “Bring jobs and housing closer together.”

FY 2019 ACCOMPLISHMENTS

- From July through September, staff conducted activities to prepare the draft plan, Visualize 2045, and its appendices for public comment on September 7. The draft financial analysis of the constrained element of the Visualize 2045 plan was presented to the TPB Technical Committee at their July meeting, incorporating assumptions on the new dedicated funding for WMATA. Comments were received and revisions were made to the analysis, the revised financial plan documentation was prepared for inclusion in the Visualize 2045 long-range plan. The TPB Staff Director briefed the WMATA Finance Committee on Visualize 2045 and its financial projections. Staff conducted performance analysis of the plan. A version of the plan was prepared for release in October to the TPB and its committees.
- A limited number of printed drafts of the plan document were printed and distributed, and the documents were posted to the Visualize 2045 website. Staff presented the plan to TPB at TPB’s September meeting, and to the TPB Technical Committee at their monthly meeting, to the board in a work session prior to the meeting. To finalize the plan in October staff activities included collecting comments and editing the document, writing all final text for the appendices, and developing the self-certification documentation. The comment period ended on October 7. Comments and responses were submitted in a memorandum to the TPB.
- The Board approved the plan on October 17, 2018. Following approval of the plan, the document and all its appendices were sent to the federal oversight agencies for federal approval.
- After the plan was completed, TPB staff developed a GIS-based story map that conveys the plan content in a graphically friendly web format.
- Staff also conducted an Environmental Justice analysis of the plan that complies with federal EJ and Title VI requirements. The regional Equity Emphasis Areas provide the geographic the basis for the analysis. The results of the analysis demonstrate that Visualize 2045 does not have a disproportionately high or significantly adverse impact on these populations. Staff presented the analysis to the TPB and several subcommittees.
- The TPB approved a resolution that directed staff to conduct activities related to the implementation of three of the aspirational initiatives in Visualize 2045 – “Improve walk and bike access to transit,” “Complete the National Capital Trail,” and “Provide more telecommuting and other options for commuting.” Staff worked with TPB subcommittees to develop follow-up recommendations related to the aspirational initiatives that were included in Visualize 2045. In response to TPB Resolution R10-2019 that directed staff to conduct activities related to the implementation of three of the aspirational initiatives, staff developed work scopes to accomplish these activities and reported back to the TPB by June of 2019. Staff conducted work on the three initiatives as follows:

- Improve walk and bike access to transit – Staff initiated a station-access study that includes a network analysis to identify walkshed around high-capacity transit stations, to prioritize stations for improvements, and to identify areas for improvements. The methodology for this work was discussed at the Bicycle and Pedestrian Subcommittee. In June, staff submitted a project status report to the TPB.
- Complete the National Capital Region Trail – Staff began to implement a work program for expanding the regional trail network to cover the entire TPB region. The methodology for this work was discussed at the Bicycle and Pedestrian Subcommittee. Staff have collected data to form the basis of the proposed trail network.
- Provide more telecommuting and other options for commuting – Staff and partners associated with the Commuter Connections Program explored specific actions and programs that can be established/expanded to advance this initiative.
- New staff was hired in April to manage long-range plan activities. Staff began developing an approach and a draft schedule for the next quadrennial plan update, which is expected to be approved in 2022.
- Staff also began developing an approach and schedule for outreach and coordination with local TPB member jurisdictions to advance projects, programs and policies that promote the aspirational initiatives.
- Staff worked on preparations for and participated in the federal certification review. Certification documentation was finalized and approved in June 2019. Staff coordinated planning topics with the Fredericksburg MPO. TPB staff were asked to provide an overview of the MPO’s process, details on what has been done in relation to the outcomes of previous certification reviews, performance-based planning letters of agreement, the FAMPO planning and coordination agreement, the long-range plan, the TIP, the UPWP, financial planning, fiscal constraint, TMA coordination, public involvement evaluation, environmental justice, Title VI and ADA and bike and multimodal transit and TDM planning.
- Staff attended the annual conference of the Association of Metropolitan Planning Organizations. At the conference, staff made a presentation on Visualize 2045.

Task 2	BUDGET	Billed this month	% Funds Expended	UPWP Page
PERFORMANCE-BASED PLANNING AND PROGRAMMING	\$701,890	\$126,774	92%	29

2. PERFORMANCE-BASED PLANNING AND PROGRAMMING

2.1 Performance-Based Planning

Staff supported briefings on MDOT’s safety activities to the Technical Committee and the TPB, providing guidance and comments. Discussions with elected officials from Prince George’s County also took place, with planning for June presentations to the Safety Subcommittee and the TPB Technical Committee.

Staff conducted follow-ups to the federal certification review, including review of minutes and potential action items.

FY 2019 ACCOMPLISHMENTS

- The Visualize 2045 long range plan was adopted in October 2018. Chapter 6 discussed the PBPP process and targets, and Appendix D was the federally-required System Performance Report covering all metropolitan planning requirements for PBPP in detail.
- The adopted FY 2019-2024 TIP also discussed the PBPP process, targets, and funding for specific programs.
- The TPB adopted initial targets for the travel time reliability and highway asset performance measures in July 2018. The second round of highway safety targets was approved in January 2019 and the second round of transit asset targets in February 2019.
- The MPO CMAQ Performance Plan was completed and submitted to the State DOTs for inclusion with their reports to FHWA.
- Staff prepared briefings, updated the Technical Committee, and coordinated with state DOT and other MPO stakeholders on the PBPP measures and targets, including the collection of highway safety methodology practices from the DOTs and collection of the region's transit agencies' asset targets.
- Staff developed resolutions, reports, and presentations for the TPB to assist in final board approval of targets.
- Staff coordinated the signature of PBPP Letters of Agreement for formal documentation of performance based planning and programming responsibilities between the TPB and the State DOTs, transit-operating jurisdictions, and other agencies.
- Staff supported the federal certification review in April 2019, which included a session focused on PBPP. Staff prepared material, presented at the session, and then conducted follow-up activities .
- Staff participated in federal webinars and other professional events on various PBPP, and attended a conference on Transit State of Good Repair

2.2 Transportation Improvement Program (TIP)

The financial summary for the FY 2019-2024 TIP was reviewed and updated as TIP amendments were approved.

Staff conducted initial coordination with the contractor for the replacement of the ITIP Database and discussed necessary functionality for metropolitan planning purposes.

FY 2019 ACCOMPLISHMENTS

- The FY 2019-2024 TIP was approved in October 2018, along with Visualize 2045. Staff prepared thorough TIP documentation, including for the first time a section on performance targets and associated programming.
- Throughout the year, for the FY 2017-2022 TIP and the FY 2019-2024 TIP following its approval, staff reviewed and processed 26 requests to amend 42 projects, as well as completed updates to the WMATA portion of the TIP and the EFLHD project appendix, and there were 25 requests to modify 89 projects.
- A procurement was conducted for the replacement of the ITIP Database, including conformity and other records. A competitive review and selection process led to a preferred vendor, with which several rounds of negotiations on scope and price took place before reaching contractual agreement.

Task 3	BUDGET	Billed this month	% Funds Expended	UPWP Page
MOBILE EMISSIONS PLANNING	\$1,877,121	\$157,111	86%	33

3. MOBILE EMISSIONS PLANNING

3.1 Air Quality Conformity

Department of Transportation Planning (DTP) staff finalized the schedule for the FY 2021-2024 TIP and 2020 Amendment to the Visualize 2045 Plan and air quality conformity analysis. The TPB Technical Committee was briefed on the Scope of Work/schedule and project inputs for the air quality conformity analysis (Item #2). Similar presentations, all of which focused on the new projects in the plan, were shared with the Metropolitan Washington Air Quality Committee Technical Advisory Committee (MWAQC TAC) (Item #5) and TPB (Item #9) at their respective June meetings.

In support of VDOT project planning efforts, staff conducted a sensitivity test to determine if limited ramp/auxiliary lane modifications to the Beltway HOT lanes project would change the outcome of the conformity analysis of Visualize 2045. As part of interagency consultation, staff presented the proposed sensitivity test methodology to the MWAQC TAC and to the TPB Technical Committee at their respective June meetings. The work included updating networks, travel demand, and emissions estimates for the 2025 forecast year. Staff developed a letter to convey the results of the sensitivity test to VDOT, which was shared with the Technical Committee, MWAQC TAC, and the TPB at their meetings in July and September.

Network development staff attended an EcoInteractive (software development company) iTIP database demonstration. EcoInteractive will be developing an interactive online database, expanding greatly on the current “iTIP” process, to coordinate the regional transportation plan, TIP, and conformity inputs, and to provide smoother and more seamless data collection from the state and local DOTs and other implementing agencies.

Staff forwarded April meeting agenda items relating to the air quality consultation elements to all relevant agencies and public advisory committees in accordance with standard consultation procedures.

DTP staff members attended the 17th TRB National Transportation Planning Applications Conference in Portland, Oregon (June 2-5) to exchange ideas and experiences with peer Metropolitan Planning Organizations (MPOs) and other transportation professionals.

FY 2019 ACCOMPLISHMENTS

- Staff completed documentation of the Visualize 2045 Air Quality Conformity (AQC) analysis. The report and conformity findings were initially presented to the TPB for review in September 2018. The TPB approved the conformity methods and findings on October 17, 2018. Federal approval of the AQC analysis was received on December 13, 2018.
- During the second half of FY 2019, staff solicited project inputs and formulated the air quality conformity scope of work for the Visualize 2045 Long-Range Transportation Plan 2020 Amendments, which specified planning assumptions, technical methods and the required analysis years for envisioned analysis. The TPB and relevant TPB and MWAQC committees were briefed on the scope of work in June.

3.2 Mobile Emissions Analysis

DTP staff continued working closely with Department of Environmental Programs (DEP) staff on development of a preliminary schedule for the base-year emissions inventory submittal to the EPA as part of the 2015 ozone NAAQS requirements. On the MWAQC TAC call (Item #3), DEP staff discussed EPA’s partial responses to the specific questions submitted by MWAQC TAC members to

the EPA in March. These questions, pertaining to the selection of the milestone year, vehicle registration data, pollutant list, and time-period of analysis, were submitted to the EPA to obtain the agency sign-off on the methodology and assumptions for this project in the areas of uncertainty. Regarding the technical activities related to this effort, DTP staff developed networks and conducted travel demand modeling activities for the 2017 base-year analysis in April. Mobile emissions modeling is expected to take place once the assumptions regarding vehicle registration data have been finalized.

DTP staff conducted additional travel demand modeling analysis related to the update of regional greenhouse gas (GHG) inventories. In the month of June, staff developed networks for the 2005 analysis year. DTP emissions modelers continued to develop mobile-source GHG inventories for analysis years 2012 and 2018.

DTP staff continued to work with DEP staff and state air agencies to facilitate various aspects of GHG planning activities. In the month of June, DTP staff worked closely with DEP staff and provided data and methodology recommendations to the City of Takoma Park regarding ways to evaluate if any progress is being made toward achieving greenhouse gas reductions. DTP staff also attended the June Maryland Commission on Climate Change meeting.

DTP management and staff, along with DEP staff and COG's executive office representatives, coordinated activities with other regional councils of governments (COGs) and MPOs regarding the Transportation and Climate Initiative (TCI). Specifically, DTP and DEP staff attended a TCI COG/MPO convening meeting in Philadelphia and shared a memorandum with the group outlining COG/TPB/CEEPC efforts towards achieving GHG reductions. TCI is a regional collaboration of Mid-Atlantic and Northeast states (including the District of Columbia, Maryland, and Virginia) that has the goal of reducing the transportation sector GHG emissions through development of cleaner transportation systems. The TCI plans to complete the policy design by the end of 2019. One of the goals of this potential COG/MPO coordination effort is to determine what role, if any, COGs and MPOs should have in what is primarily a state-led initiative.

FY 2019 ACCOMPLISHMENTS

- Staff finalized documentation of the greenhouse gas (GHG) planning studies conducted by DTP and DEP staff over the past decade, with an emphasis on the mobile sector. The resulting memorandum provides technical recommendations with respect to the inventory development methodology for moving forward in current and future planning efforts. Using the recommendations outlined in the memorandum, staff embarked on an effort to update the greenhouse gas inventories for multiple analysis years. As a part of this "2018 GHG Inventory Development" effort spearheaded by DEP staff, staff produced and reviewed travel demand estimates for all analysis years, while MOVES emissions modeling work will be completed in FY 2020.
- DTP staff worked closely with DEP staff on development of a preliminary schedule for the base year emissions inventory submittal to EPA as part of the 2015 ozone National Ambient Air Quality Standards (NAAQS) requirements. DTP staff developed networks and conducted travel demand modeling activities for the 2017 base year analysis. Mobile emissions modeling is expected to take place in FY 2020, once the assumptions regarding vehicle registration data have been finalized.
- DTP management and staff, along with DEP staff and COG's executive office representatives, began exploring the possibility of coordinating efforts with other regional councils (COGs) and metropolitan planning organizations (MPOs) regarding the Transportation and Climate Initiative (TCI). TCI is a regional collaboration of Mid-Atlantic and Northeast states (including the District of Columbia, Maryland, and Virginia) that has the goal of reducing the transportation sector GHG emissions through development of cleaner transportation systems. One of the goals of this potential COG/MPO coordination effort is to determine what role, if any, COGs and MPOs should have in what is primarily a state-led

initiative. DTP staff participated in the relevant meetings and webinars, including the COG/MPO Convening in Philadelphia.

- Working with Federal Transit Administration (FTA) and the National Transit Institute (NTI), staff hosted Simplified Trips-on-Project Software (STOPS) training at the Metropolitan Washington Council of Governments’ offices. The training provided an opportunity for DTP staff, local DOT and jurisdiction planners, and consultants to learn from national experts how to develop forecasts for new “fixed-guideway” projects seeking federal funding using STOPS, as well as how FTA reviews transit ridership forecasts associated with grant funding submissions.
- Staff attended relevant Association of Metropolitan Planning Organizations (AMPO) Air Quality Work Group meetings. The Air Quality Work Group offers a mechanism for MPO engagement, communications, outreach and capacity building in addressing air quality and climate change issues, policies, emphasis areas, guidance and regulations, and state-of-the-practice analytic tools and techniques.
- DTP emission modelers made improvements to the MOVES modeling process applied at COG and organized a workshop to provide hands-on training for other staff.
- Staff remained current with federal legislation relating to air quality conformity requirements of MPOs.
- Staff began exploring potential use of Big Data and sketch planning tools to enhance the planning process. As a part of this effort staff conducted tests using Google-based data to develop travel time and accessibility estimates. Staff also attended workshops on Federal Highway Administration’s PlanWorks and VisionEval tools/processes.

Task 4	BUDGET	Billed this month	% Funds Expended	UPWP Page
PLANNING PROGRAMS	\$1,859,037	\$127,883	99%	35

4. PLANNING PROGRAMS

4.1 Congestion Management Process

The June 20 Vehicle Probe Data Users Group meeting was organized and conducted, discussing MDOT-SHA-CHART’s use of big data for operations planning; the University of Maryland’s work for the Pennsylvania Department of Transportation on INRIX XD-based arterial performance measures; and Metropolitan Area Transportation Operations Coordination (MATOC) Program’s use of the Probe Data Analytics Suite.

Congestion dashboard analysis and report development continued. Data compilation and analysis continued toward a future review of congestion impacts of the May to September 2019 platform repair-related shutdown of several Northern Virginia Blue Line and Yellow Line Metrorail stations.

Staff attended a June 18 I-95 Corridor Coalition probe data webinar.

FY 2019 ACCOMPLISHMENTS

- The biennial 2018 Congestion Management Process Technical Report was finalized, and was accepted by the TPB Technical Committee at its September 7, 2018 meeting.
- The regional congestion management dashboard website was maintained, with regional congestion summaries published.
- The CMP components of Visualize 2045 were finalized and incorporated into the plan.
- Congestion management performance metrics were provided in support of performance-based planning requirements.

- CMP briefings were provided to the Systems Performance, Operations, and Technology Subcommittee.
- Congestion analyses were conducted on an as-needed basis for incidents or events, such as for an impactful March 28 gasoline tanker truck incident on the Capital Beltway.
- Two meetings of the Vehicle Probe Data Users Group were organized and conducted, serving as collaboration and information sharing opportunities for member agencies and staff regarding transportation systems usage data sources.

4.2 Systems Performance, Operations and Technology Planning

A June 11 conference call was organized and conducted with subject matter experts from the state departments of transportation regarding the Metropolitan Washington Regional Intelligent Transportation Systems Architecture (MWRITSA). This call reviewed the information obtained from the state DOTs as integrated into this year's updated version MWRITSA. Following this call, this updated version of the MWRITSA was finalized.

The second of a series of member agency outreach interviews/site visits for the Systems Performance, Operations, and Technology (SPOT) program and Subcommittee (SPOTS) was conducted. This site visit was at the Maryland Department of Transportation – State Highway Administration CHART offices on June 18, discussing MDOT/SHA/CHART SPOT-related activities, as well as their advice on future SPOTS activities.

Planning for an FY 2020 TPB forum on connected and autonomous vehicles continued.

Staff attended “First Responders Day”, June 5 at the ITS America Annual Meeting in Washington, D.C., in conjunction with the Baltimore Metropolitan Council's Traffic Incident Management in Baltimore Region (TIMBR) Committee.

FY 2019 ACCOMPLISHMENTS

- Four (4) meetings of the Systems Performance, Operations, and Technology Subcommittee (SPOTS) were organized and conducted during FY 2019, including preparation of agendas, meeting summaries, and informational materials, providing opportunities for coordination and information exchange.
- SPOT-related components of Visualize 2045 were finalized and incorporated into the plan, including on management and operations, emerging technologies, and resiliency.
- Support were provided to the 2018 COG Traffic Incident Management Enhancement (TIME) Initiative and Task Force. A TIME findings and recommendations report was completed, approved by the COG Board in November 2018, and shared with the TPB in a February 2019 presentation. Long-term follow-up activities began.
- An updated version of the Metropolitan Washington Regional Intelligent Transportation Systems Architecture (MWRITSA) was developed and finalized, following review by key stakeholders from the state departments of transportation.
- The first two of an ongoing series of member agency outreach interviews/site visits for SPOTS were organized and conducted, providing opportunities to delve into details of member agency SPOTS-related needs and activities.
- Information on traffic signal timing and power backups was compiled toward future reporting.
- Background research and preparations began for an FY 2020 regional forum on connected/ autonomous vehicles.

4.3 Transportation Emergency Preparedness Planning

The regularly scheduled May 8 meeting of the Transportation Emergency Preparedness Committee (R-ESF 1) was organized and conducted. Information needs and information sharing were discussed.

Staff continued to provide technical advice to ongoing COG stakeholder outreach following the November 2018 completion of the Traffic Incident Management Enhancement (TIME) Task Force, Initiative, and recommendations report.

The regularly scheduled June 12 meeting of the Transportation Emergency Preparedness Committee (R-ESF 1) was organized and conducted, with a focus on preparations for the upcoming July 4 events.

Staff continued to provide technical advice to ongoing COG stakeholder outreach following the November 2018 completion of the Traffic Incident Management Enhancement (TIME) Task Force, Initiative, and recommendations report.

FY 2019 ACCOMPLISHMENTS

- Nine (9) meetings of the Transportation Emergency Preparedness Committee were organized and conducted during FY2019, including preparation of agendas, meeting summaries, and tracking of action items. Supporting and informational materials were developed.
- The 2018 COG Traffic Incident Management Enhancement (TIME) Initiative and its follow-up activities were coordinated with the Transportation Emergency Preparedness Committee, with an emphasis on aspects of transportation/public safety incident coordination.
- Staff assisted in the summarization and transmittal of the input of the Committee to the annual Urban Area Security Initiative (UASI) grant process.
- The committee continued worked with WMATA in training of first responders in handling Metrorail emergencies.
- Transportation emergency preparedness planning coordination with public safety committees and programs was maintained.

4.4 Transportation Safety Planning

The regularly scheduled June 4 meeting of the Transportation Safety Subcommittee was organized and conducted. Topics discussed included Prince George's County Councilmember Anderson-Walker's #DrivingItHome initiative, San Antonio's Safest Driver Contest, and a review of TPB safety news.

Staff participated in the June 11 – 12 AMPO PBPP Working Group Meeting on the topic of regional highway safety target setting.

For the Analysis of Regional Roadway Safety Outcomes study, TPB and consultant staff organized and conducted the June 26 project kickoff meeting with the Technical Advisory Panel. Decisions were made on the project work plan and schedule and next steps were finalized.

FY 2019 ACCOMPLISHMENTS

- Four (4) meetings of the Transportation Safety Subcommittee were organized and conducted. A new subcommittee chairperson was named in December 2018.
- Safety-related components of Visualize 2045 were finalized and incorporated into the plan. Chapter 6 discussed the PBPP process and targets and Appendix F provided greater detail on the regional highway safety targets.
- Staff prepared briefings, updated the Technical Committee, coordinated with state DOT and other MPO stakeholders on the PBPP measures and targets, developed a set of proposed regional highway safety targets, with a related report, presentation, and resolution for TPB action. The TPB adopted the current round of highway safety targets in January 2019.
- At the board's request, staff coordinated the presentation of State DOT safety updates to the Technical Committee and to the TPB.
- In response to TPB concerns on regional transportation safety, subject matter expert consultant assistance was engaged for a regional roadway safety study to identify the factors behind the observed safety outcomes in the region. A technical selection committee was convened, a consultant chosen, a contract executed, and the study began, continuing into FY 2020.

4.5 Bicycle and Pedestrian Planning

A briefing was provided to the TPB Technical Committee (June 7) on the Bicycle and Pedestrian Subcommittee's May 30 Dockless Vehicles and Electric Scooters regional workshop. Compilation of GIS layers for the Expand the National Capital Regional Trail project continued, and a project status memo was provided to the TPB. Advice, coordination, and outreach were provided for the Street Smart pedestrian and bicyclist safety program, following up on the spring (April – May) campaign.

Staff attended or participated in the following May 2019 events that support current and future Bicycle and Pedestrian Planning efforts:

- Washington Area Bicyclist Association regional summit of bicycle advisory commission members, June 9.
- Capital Trails Coalition Steering Committee, June 11.
- ShareVARoads Bicycle and Pedestrian Advisory Group conference call, June 18.
- DDOT Florida Avenue N.E. Interim Safety Improvement Open House, June 20.

FY 2019 ACCOMPLISHMENTS

- Six (6) meetings of the Bicycle and Pedestrian Subcommittee were organized and conducted, fostering information exchange on a range of best practices in bicycle and pedestrian planning among TPB member jurisdictions and subject matter experts.
- Work began on the TPB Aspirational Initiatives project to Expand the National Capital Regional Trail (Resolution R10-2019), to extend this currently centrally-focused planned trail network to the breadth of TPB jurisdictions; completion is anticipated in FY 2020.
- The Bicycle and Pedestrian Plan database was maintained on the TPB website, and work began on enhancements to accommodate expanded National Capital Regional Trail information.
- Bicycle and pedestrian information, with related Complete Streets and Green Streets information, was included in the publication of Visualize 2045.
- Bicycle and pedestrian planning technical advice was provided for fall and spring Street Smart regional pedestrian and bicyclist safety campaigns.
- Two Dockless Bike and Electric Scooter Share workshops were organized and conducted, on October 31 and May 30. Each workshop attracted approximately 50 participants, representing jurisdictions with active programs, staff from jurisdictions exploring dockless programs, consultants, and interested members of the public.
- TPB, with Arlington County, hosted a two-day "Building a Low-Stress Bicycle Network" peer exchange event, April 10 and 11.

4.6 Regional Public Transportation Planning

Staff conducted the Private Providers Annual Transit Forum and a Regional Public Transportation Subcommittee in June. A draft of the 2019 State of Public Transportation report was completed for Technical Committee review.

Staff supported two local briefings on transit planning in the region at the June Technical Committee meeting: Alexandria's network vision and NVTC's VA-7 BRT.

Staff attended the monthly WMATA JCC meeting and supported presentations on the Bus Transformation Project to the TPB and the Technical Committee.

FY 2019 ACCOMPLISHMENTS

- Eight (8) meeting of the Regional Public Transportation Subcommittee (RPTS) were organized and conducted. In addition, the annual forum for private providers of public transit was held in June 2019. Staff assisted in meeting planning and facilitation.

- Staff worked to develop and refine the RPTS's recommendations on the TPB Endorsed Aspirational Initiatives, preparing presentations and providing input to board meeting agenda items and a special work session, leading to the adoption of R10-2019.
- Participation in the WMATA Bus Transformation Project was a major event for the year. Staff participated in the kick-off summit and multiple sessions and webinar discussions, reviewed and provided feedback on several rounds of documents, and supported two rounds of briefings to the TPB and Technical Committee.
- Staff and contractors completed and submitted nine of thirty required After reports analyzing the performance of the fifteen corridor projects of the TIGER grant for Priority Bus Projects in the National Capital Region.
- Staff assisted in the presentation of the results of the TPB's Bus Provision Study to the Technical Committee
- Staff attended monthly WMATA JCC meetings, participated in studies by DDOT, pre-planning for the Summer 2019 Metro Platform Shutdown project, and participated in federal webinars and other professional events on transit planning and performance.
- Staff arranged for a number of transit presentations relevant to the TPB Aspirational Initiatives to be briefed to the TPB Technical Committee at its monthly meetings.

4.7 Freight Planning

Staff developed a draft agenda and supporting materials for the regularly scheduled July meeting of the Freight Subcommittee.

Staff participated in the June 24 Greater Washington Regional Food & Ag Supply Chain Summit.

FY 2019 ACCOMPLISHMENTS

- Four (4) meetings of the Freight Subcommittee were organized and conducted. Staff identified speakers, developed meeting materials, and conducted each of the meetings.
- Freight-related components of Visualize 2045 were finalized and incorporated into the plan.
- Staff participated in several important events including the International Urban Freight Peer Exchange (Baltimore, Maryland) and the Chesapeake Food Summit.
- Staff participated in a TRB Committee that met monthly to plan and organize a conference on Performance and Data in Transportation Decision Making.

4.8 MATOC

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 June 14 MATOC Steering Committee meeting was organized and conducted, continuing discussion of communications, coordination, and Traffic Incident Management topics, as well as finalizing development of the FY 2020 MATOC Work Plan. Staff assisted the University of Maryland and MATOC Steering Committee in finalizing the Work Plan, and the MATOC Steering Committee approved the plan (voting by email) on June 24.

The June 27 MATOC Information Systems Subcommittee conference call was organized and conducted, reviewing the status of MATOC's information systems activities.

The June 27 MATOC Operations Subcommittee conference call was organized and conducted, focusing on transportation operations preparations for upcoming Independence Day events.

FY 2019 ACCOMPLISHMENTS

- Support was provided for nine (9) meetings or conference calls of the MATOC Steering Committee during FY 2019, including preparation of agendas, meeting summaries, and tracking of action items, helping the MATOC Steering Committee in its effective oversight of MATOC activities.

- Staff input and advice was provided via participation in approximately 20 meetings or conference calls of MATOC’s subcommittees and working groups during FY 2019, including on operations, transit, information systems, and severe weather.
- Staff assisted in the organization and conduct of a May 22 MATOC Operations Subcommittee (joined by an expanded group of responders and stakeholders) after-action review workshop regarding the impactful March 28 Capital Beltway gasoline tanker incident.
- Coordination occurred throughout the year with the University of Maryland Center for Advanced Transportation Technology, which is contracted by MATOC Steering Committee members to execute the MATOC Program.

Task 5	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL FORECASTING	\$2,154,091	\$183,527	94%	43

5. TRAVEL FORECASTING

5.1 Network Development

One of the major inputs to the regional travel demand forecasting model is a series of transportation networks, representing the regional highway and transit systems. Each year, staff develops a new base-year transit network, which is used for coding all subsequent transit networks. This year’s base-year transit network represents year-2018 conditions. About half the transit agencies provide route information in an electronic, machine-processible format called GTFS. In June, staff started the last phase of developing the base-year transit network: adding new transit routes to the geodatabase and determining which routes need to be removed from the geodatabase.

Road links in the highway network used by the travel model have traditionally not included street names, since these are not needed by the model. Nonetheless, people who edit and review these highway networks have often requested street names be included as network link attributes. Staff recently completed an effort to add street names to highway links. Documentation is expected in July.

Staff began work to conduct a survey of large MPOs to determine the techniques used by each MPO for managing and editing transportation networks use by the travel model. Twenty MPOs have been contacted. Once the work has been completed, the findings will be documented in a memo or report (planned for August or September).

In support of a data request for Arlington Co., staff developed and transmitted a year-2007 transportation network that will be used by the county for travel modeling. In response to another data request, staff sent a consultant a copy of the COGTools network editing tool.

In support of the Travel Forecasting Subcommittee (TFS), described below, staff finished preparing draft meeting highlights from the May 17 meeting, and other TFS meeting materials.

FY 2019 ACCOMPLISHMENTS

- Staff completed developing the base-year transit network reflecting year-2017 conditions. The base-year transit network is used as the basis for coding all subsequent transit networks.
- Staff created transit networks representing six forecast years (2019, 2021, 2025, 2030, 2040, and 2045) needed for this year’s the air quality conformity analysis (discussed below). These networks were documented in a March 2019 report.

- Staff also began coding the year-2018 base-year transit network, which should be completed in August 2019.
- Staff also developed networks representing 2021, 2030, and 2040 in a new format, known as Cube Voyager Public Transport (PT), which is needed by the Gen2/Ver. 2.5 Travel Model, which is currently undergoing validation and sensitivity testing by COG/TPB staff.

5.2 Model Development and Support

The Travel Forecasting Subcommittee (TFS) does not meet in the month of June, but staff began preparing the agenda for the July 19 meeting.

Staff has decided to focus its near-term efforts on refining the Ver 2.3 Travel Demand Model and to defer further development of the Ver 2.5 Travel Demand Model for a few months.

Data collection and analysis: Staff wrote a Python script to process the latest National Transit Database (NTD) dataset dated April 2019. Staff used Tableau software to visualize trends. Work will be documented in a future memo.

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

Staff has begun work on two principal refinements to the Ver 2.3 Model: 1) Revising the external trip distribution process based on observed travel patterns from 2014 cellular origin-destination data, and 2) recalibrating the regional mode choice model with updated Virginia commuter rail trip targets. Both revisions are envisioned to be combined into an updated production model pending future validation tests. Staff has conducted several base-year (2014) tests, including adjusting bridge penalties and updating internal trip production rates. Staff have been comparing trip-length frequency distributions, both with and without the revision of the trip distribution of external travel.

In June, staff had updated the methodology used to estimate and forecast the consumer price index (CPI) used by the model. Work was documented in a draft memo dated June 25.

FY 2019 ACCOMPLISHMENTS

- Staff conducted the air quality conformity (AQC) analysis of the financially constrained element of the Visualize 2045 long-range transportation plan and the FY 2019-2024 TIP. This analysis made use of the adopted, production-use travel demand forecasting model, Gen2/Ver. 2.3.75. It also included the following data/assumptions: 1) Round 9.1 of the Cooperative Forecasts of land activity; 2) the latest transportation networks, including the year-2017 base-year transit network; 3) December 2016 Vehicle Registration Data; 4) Removal of the “core” Metrorail capacity constraint assumption within the travel demand model; 5) EPA’s MOVES 2014a Mobile Emissions Model. As per standard practice, staff prepared a model transmittal package.
- Travel Forecasting staff assisted other COG staff with a performance analysis of the long-range transportation plan.
- At the request of VDOT, staff performed a sensitivity test regarding the potential mobile emissions impact of ramps associated with HOT lanes in Virginia.
- Prior to the travel demand modeling work, staff prepared the input, zone-level land-activity forecasts needed by the travel model. Specifically, land activity forecasts that were provided in five-year increments were interpolated to provide one-year increments and an adjustment was made to jurisdiction-level employment estimates to ensure that a consistent definition is used throughout the entire 6,800 square-mile modeled area.
- Each year, staff makes minor updates (e.g., bug fixes) to the TPB’s regional travel model and the updated model is documented in a travel model user’s guide. This year’s guide was released in December.
- In 2013, the Ver. 2.3 Model had been validated to year-2010 conditions. In FY 2019, staff revalidated the Ver. 2.3 Model to year-2014 conditions.

- Staff also developed a procedure to perform select-link analyses using the Gen2/Ver. 2.3 Model. Such analyses can be used to show the origins and destinations of trips passing through a bridge or other road link.

Developmental, travel demand forecasting model: Generation-2/Ver. 2.5

As noted above, work is currently on hold on the Ver. 2.5 Model.

Developmental, travel demand forecasting model: Generation-3

Staff is currently seeking consultant assistance to develop COG/TPB's next-generation travel demand forecasting model, known as the Generation-3 or Gen3 Model. Vendor responses to the Request For Proposals (RFP #19-015) were due on June 26. During the month of June, staff began forming a Technical Selection Committee (TSC) whose function would be to review and score the submitted vendor proposals. The TSC contains representatives from COG, the District, Maryland, Virginia, and WMATA. In July, TSC members will begin to review and score proposals.

Staff has begun creating an inventory of data sets that could be useful for calibrating and validating the Gen3 Model.

FY 2019 ACCOMPLISHMENTS

- In FY 2017, COG's on-call modeling consultant developed a new version of the regional travel demand forecasting model, known as the Gen2/Ver. 2.5 Model. This model is a developmental model that is undergoing testing by COG/TPB staff to determine if it is ready for production-use work. In both FY 2018 and FY 2019, COG/TPB staff tested the new model and made updates to the model. In FY 2019, staff made the 13th update to this model (i.e., Ver. 2.5.13). While progress has been made, staff has not completed its evaluation of the model and it is not yet approved for production use.
- Also, in FY 2019, staff continued the effort to seek consultant assistance to develop COG/TPB's next-generation travel demand forecasting model, known as the Generation-3 or Gen3 Model. In July 2018, staff continued reviewing vendor responses to the Request for Information (RFI). Staff issued the Request for Proposals (RFP) in May 2019. A Technical Selection Committee (TSC) was formed in June. The TSC will review and score the submitted vendor proposals during the early part of FY 2020.

Other activities

Staff participated in a pilot/trial of Tableau software, which COG is considering purchasing as a tool for visualizing data sets.

Staff has been testing version control software (Git, GitHub, and Sublime Merge) that could be used to manage update to the scripts that make up the travel demand model.

Data requests and model support: Staff serviced seven data requests in June. Five requests were from consultants, one was from Arlington County, and another COG's senior management. The requested data included a year-2007 transportation network, a shapefile representing the Visualize 2045 Plan, external-to-internal trips for 2019 and 2045 based on Visualize 2045, Round 9.1 land use files, the 2005 COG/TPB Commercial Vehicle Survey, and a loaded-link highway network from the Ver. 2.3.75 Travel Model.

Staff researched sketch-planning tool called Integrated Transport and Health Impact Model (ITHIM).

FY 2019 ACCOMPLISHMENTS

- The Travel Forecasting Subcommittee (TFS), which provides oversight of activities related to development of the regional travel demand forecasting model, normally meets six times a year. For FY 2019, however, the TFS met only five times, since the January 2019 TFS meeting was cancelled.

- Staff serviced 71 technical data requests from consultants, local transportation agencies or academics. Many of the were requests were for the currently adopted travel demand model or for model-related data. At the request of the regional transit agency, staff performed an analysis of observed and estimated Metrorail trips between 2012 and 2016 (memo dated August 28, 2018).
- Staff members attended the 98th Annual Meeting of the Transportation Research Board (TRB) in Washington, D.C. (January 2019). Several staff also attended the TRB Transportation Planning Applications Conference in Portland, Oregon (June 2019). One staff served on a steering committee that guided research done by the Union of Concerned Scientists regarding the equity impacts of connected and autonomous vehicles (CAVs). The study made use of the TPB travel model and became a TRB paper, which was presented at the TRB Annual Meeting.

Task 6	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRAVEL MONITORING AND DATA PROGRAMS	\$2,410,334	\$532,771	77%	45

6. TRAVEL MONITORING AND DATA PROGRAMS

6.1 Household Travel Survey

COG/TPB staff held meetings with Resource Systems Group, Inc. (RSG), the survey contractor for the 2017/2018 COG/TPB Regional Travel Survey (RTS). For the June 2019 reporting period, the key tasks were focused on processing the data files for the RTS and reviewing the RTS final report from the survey contractor. COG/TPB staff worked on editing and cleaning the household, person, and trip files in the RTS, in addition to refining the work plan for proposed RTS tabulations.

FY 2019 ACCOMPLISHMENTS

- Data collection for the 2017/2018 Regional Travel Survey (RTS) was completed in December 2018. The RTS exceeded the target goal of completes across all jurisdictional strata in the survey region and collected detailed household travel information from 15,976 households, exceeding the target goal of 15,000 households within the TPB modeled region.
- An add-on survey for Arlington County and a Hispanic/Latino outreach effort was completed in December 2018.
- Staff performed data processing tasks, including data cleaning, editing, and weighting
- Staff presented briefings on the RTS to the Travel Forecasting Subcommittee, Technical Committee, Bicycle and Pedestrian Subcommittee, and the Commuter Connections Subcommittee.

6.2 Travel Monitoring Counts/Studies

Progress on the analysis of regional roadway safety outcomes study is now reported within Section 4.4 - Transportation Safety Planning. Please refer to this section to review progress on this item going forward.

COG/TPB staff attended TRB’s Applications Conference and attended sessions on big data applications in regional travel monitoring and travel trends analysis programs. COG/TPB staff held internal meetings to discuss the approach for revamping the regional travel trends and monitoring program, which will be a priority in FY 2020.

FY 2019 ACCOMPLISHMENTS

- COG/TPB staff collected and compiled regional travel trends and travel monitoring data as data became available.
- The scope of the travel monitoring task was expanded to focus more broadly on travel data and research in addition to travel monitoring. In FY 2020, this activity will include the continuation of the Big Data Evaluation Study, which began initially as a Technical Assistance Study in FY 2019.

6.3 Regional Transportation Data Clearinghouse

The modifications will streamline and automate the process resulting in fewer steps done in ArcGIS. This will increase efficiency and accuracy in the long run. These programs were used to summarize 2016 vehicle classification data for eventual inclusion in the Clearinghouse.

Staff continued the project to inventory CTPP tabulations done in the past decade to be used to develop a workplan for tabulating CTPP data going forward. Staff began downloading 2012 to 2016 CTPP data. In addition, staff arranged for COG/TPB to host an AASHTO training class for our member jurisdictions on using Census Transportation Planning Products (CTPP). The training will take place early in FY 2020.

Staff began work on updating TPB's transit-related datasets that are used internally (on the G Drive) and shared in the Regional Transportation Data Clearinghouse (RTDC). The work is ongoing.

Staff responded to a request from a consultant regarding the availability of Visualize 2045 project data in the RTDC. Staff created a map package dataset of the Constrained Element projects of Visualize 2045 and shared it via the RTDC.

Staff responded to an inquiry about the availability of data specific to federal commuting for the region in the RTDC. Provided traffic counts in the vicinity of Spring St. NW, Washington DC to a consultant conducting a noise study ahead of proposed construction in the area.

FY 2019 ACCOMPLISHMENTS

- Staff delivered one briefing to the to the TPB Technical Committee and two briefings to the Travel Forecasting Subcommittee on the RTDC.
- Staff updated RTDC datasets, including annual and hourly traffic counts, vehicle classification counts, transit counts (average weekday ridership by month, vehicle miles traveled (VMT), Cooperative Forecasting data, Bridge Condition performance, Pavement Condition performance, and Highway Performance Monitoring System (HPMS).
- Staff updated and enhanced the regional historical VMT Table.
- Staff continued to update and refine the RTDC Data Viewer online mapping application— updating code, adding functionality and securing content.
- Staff performed routine updates and administrative tasks for the RTDC project page, an ArcGIS Online Open Data product.
- Staff continued to respond to inquiries and questions regarding data available in the RTDC.
- Staff attended several FHWA, AASHTO, and vendor sponsored conferences and webinars.

6.4 GIS Data (Technical Support)

Staff attended the Maryland State Geographic Information Committee (MSGIC) meeting held on June 12 in Crownsville, MD and the TPB Regional Public Transportation Subcommittee held in June 25. In addition, staff attended Interventions that Work: 2020 Census & Hard-to-Reach Communities, a COG-Sponsored symposium designed to define strategies to encourage people to answer the 2020 Census.

Staff delivered meeting notes with action items and the Minimum Essential Data Set (MEDS) status matrix to members of the GIS Committee/GDX Working Group.

Staff received bicycle and pedestrian-related spatial data from Frederick County, the City of Frederick, and Prince William County of in support of the TPB project to expand the National Capital Trail. Staff are waiting for additional data from other jurisdictions.

Staff completed work to create network buffers/service areas for High Capacity Transit (HCT) stations, part of a larger effort to identify deficiencies and demand through walkshed analysis of HCT stations. Staff assisted in the development of a memorandum shared at the TPB Board meeting as part of the Director's Report regarding the station access project (TPB Resolution R10-2019).

Staff participated in two DTP-wide meetings—one regarding the quadrennial Long-Range Plan update and the other to review the draft action plan to implement the Aspirational initiatives of Visualize 2045.

Staff addressed and corrected an issue with the proxy rules for the ArcGIS web server that caused inconsistencies in the availability of TPB web map and application content hosted on ArcGIS Online through the COG website. Staff used ArcGIS Online to perform testing of some online spatial analysis tasks, including service area generation, geocoding, and flow data. Staff continued work with Commuter Connections to provide support for the program's online routing applications hosted on ArcGIS Online.

Staff attended and participated in a webinar with representatives from Tableau to learn about the product and begin to evaluate the potential of utilizing the tool to help inform our data visualization opportunities.

FY 2019 ACCOMPLISHMENTS

- Staff convened four joint meetings of the GIS Committee and NCRGDX Working Group in FY 2019.
- Staff created several web mapping applications for Visualize 2045. Products included the following: New and Proposed Changes (conformity projects), Constrained Element, and Environmental Consultation and Mitigation. Additionally, staff developed a Story Map for the plan to use used as an online interactive companion product.
- Staff organized a regional Participant Statistical Areas Program (PSAP) initiative to encourage local PSAP participants to use COG/TPB TAZ boundaries when delineating Census Block Groups. This included providing briefings to the GIS Committee/GDX Working Group, the Cooperative Forecasting and Data Subcommittee, and the Travel Forecasting Subcommittee. Staff formed a working group where PSAP participants shared their successes and challenges with the PSAP process. Staff reviewed and provided feedback on block group delineations for the two jurisdictions which requested it.
- Staff worked with the Capital Trails Coalition (CTC) and the Rails to Trails Coalition (RTC) to discuss data coordination for adopting the CTC's regional network as the basis from which TPB will expand the network to create a TPB-specific National Capital Trail regional network of bicycle/pedestrian facilities.
- Staff developed network-based walksheds in support of the station access project to develop a list of priority station areas in which improvements can be made to enhance nonmotorized access to high capacity transit (HCT) stations.
- Staff planned and hosted the second annual TPB/COG GIS Day celebration on November 14. The event was attended by approximately 25 staff from all departments.
- Staff provided technical support to Commuter Connections for the 2019 Bike to Work Day.
- Staff attended MSGIC meetings throughout the year and staff attended ESRI User Group meetings.
- Staff responded to numerous ad hoc data requests from COG/TPB staff, COG/TPB member staff, and others.
- Staff continued to work with staff from COG's Information Technology and Facilities Management (ITFM) to update GIS hardware and software as necessary to ensure the GIS server and web server continue to operate without incident.

Task 7	BUDGET	Billed this month	% Funds Expended	UPWP Page
COOPERATIVE FORECASTING AND TRANSPORTATION PLANNING COORDINATION	\$915,451	\$102,598	98%	49

7. COOPERATIVE FORECASTING AND TRANSPORTATION PLANNING COORDINATION

Staff obtained and began processing updated land use growth forecasts from the Baltimore Metropolitan Council (BMC) and the Fredericksburg Area MPO (FAMPO). Staff will be merging the new projections with the current 9.1 Forecasts for all other jurisdictions to create a new data set, “Round 9.1a”, for use in this year’s Air Quality Conformity Analysis of Visualize 2045.

Staff supported the effort to address the regional housing shortfall noted by the TPB Long-Range Plan Task Force and TPB Aspirational Initiative to Bring Jobs and Housing Closer Together by:

Staff assisted with the Chief Administrative Officers (CAOs) “Retreat” focused on addressing the housing shortfall. Nearly 75 people participated in the event including CAOs, Planning Directors, Housing Directors, key local government senior staff and COG’s Executive Director and senior staff. The agenda featured briefings by the Urban Institute, the consultant team to the Greater Washington Partnership, focused on “Meeting Greater Washington’s Future Housing Needs” and, specifically, what are the appropriate price points and what types of housing are needed. In addition, ULI Washington District Council Chair Yolanda Cole briefed the group on the recent ULI Washington report, “Increasing Housing Supply and Attainability: Improving Rules & Engagement to Build More Housing”.

Staff participated in the 2019 Leckey Forum on Housing, “Planning for Equity and Affordability” in Arlington sponsored by the Alliance for Housing Solutions and Housing Virginia

Staff supported the Housing Directors Committee (HDAC) Co-Chair Polly Donaldson brief the COG Board of Directors on work by HDAC to determine additional housing production options and ideal price points.

Staff supported the PDTAC with additional discussions about the housing shortfall, including a recap of both the June 5 CAOs Retreat and June 12 COG Board meeting. In addition, the Planning Directors held initial discussions concerning setting regional and jurisdictional housing production targets. The Committee charged COG staff with developing several alternatives for review and action during the July Planning Directors meeting.

Staff, with support from the Washington Regional Association of Grant Makers, hosted a 2020 Census Conference to improve census response rates entitled, “Interventions that Work: Census 2020 and Hard-to-Reach Communities.” The conference was held at the Milken School of Public Health at George Washington University and attended by nearly 250 people.

FY 2019 ACCOMPLISHMENTS

- During FY 2019, staff efforts to support Cooperative Forecasting and Transportation Planning Coordination largely focused on addressing the Visualize 2045 goal of balancing jobs and housing. Specifically, staff worked with members of the Planning Directors and Housing Directors committees to determine the regions ability to accommodate 100,000 additional housing units beyond those currently anticipated in the Cooperative Forecasts by 2045.
- Staff convened monthly meetings of the PDTAC and bi-monthly meetings of the HDAC to determine if local comprehensive plans could support the additional housing and how much of that housing could be accommodated in activity centers and high-capacity transit stations. Through several months of analysis, the PDTAC determined that local plans could accommodate additional housing and, more significantly, capacity exists in activity centers and HCT’s for at least 100,000 units. The HDAC evaluated several alternatives to the range of “affordability” targets for the region’s new housing. Staff and chairs of the Planning Directors and Housing

- Directors provided regular briefings on the effort to the COG Board of Directors, the TPP Technical Committee, the Transportation Planning Board, and the Region Forward Coalition.
- Staff engaged key strategic partners in the region throughout the year who are also working to address this housing challenge, including ULI Washington, the Urban Institute, and the Greater Washington Partnership. These organizations briefed both PDTAC and HDAC on their research, and presented to the COG Board of Directors, and a special “retreat” session of COG’s CAOs, Planning Directors and Housing directors.
 - During the Cooperative Forecasting Subcommittee meetings, staff planned and hosted briefings from Fairfax County, Prince George’s County, the District of Columbia, Arlington County, Gaithersburg, and Frederick County on their methods for developing Cooperative Forecasts
 - Staff worked to compile new forecasts from the Baltimore Metropolitan Council and the Fredericksburg area MPO for use in this year’s air quality conformity analysis of Visualize 2045. When completed in early FY 2020, the file will contain new forecasts for the modeled jurisdictions in the Baltimore Metropolitan Council region (Anne Arundel, Carroll and Howard counties); and the FAMPO region (Fredericksburg City, King George, Stafford and Spotsylvania counties). Forecasts will be unchanged from Round 9.1 for COG/TPB member jurisdictions; Calvert and St. Mary’s counties in Maryland; Clarke and Fauquier counties in Virginia; and Jefferson County, West Virginia.
 - Staff acquired and processed the 2018 InfoUSA regional database of employers by location for the TPB model region. The InfoUSA data is the basis for local government small-area (TAZ) employment estimates from which future employment forecasts are developed.
 - Staff hosted several Census 2020 Participant Statistical Area Program (PSAP) trainings for local governments. The PSAP program will define the geographic units for how the 2020 Census data is tabulated and form the population, housing unit and household base data for the next major update to the Cooperative Forecasts.
 - Staff continued supporting the Regional Economic Monitoring System (REMS) to monitor current trends in employment growth and housing production. The data informs CFDS, PDTAC and elected officials on regional economic trends.
 - Staff compiled annual CoStar commercial construction data and completed the 2018 Commercial Construction report. The report and data are a leading indicator used by local governments to assess the locations of near-term employment growth for preparing their Cooperative Forecasts.
 - To support the HDAC and regional capacity assessment, staff also compiled 2017 CoStar data on new multi-family residential construction and developed the first COG regional assessment of multi-family construction trends.

Task 8	BUDGET	Billed this month	% Funds Expended	UPWP Page
PUBLIC PARTICIPATION AND HUMAN SERVICES COORDINATION	\$1,261,894	\$72,692	59%	51

8. PUBLIC PARTICIPATION AND HUMAN SERVICES COORDINATION

8.1 Public Participation

The Citizens Advisory Committee (CAC) met on Thursday, June 13. At the meeting the committee was briefed on transportation safety and the regional travel survey. They also discussed ways that CAC members can assist with implementation of the aspirational initiatives from Visualize 2045.

Staff conducted internal discussions to determine how the recently completed evaluation of the TPB's public involvement activities can be used to focus and guide the TPB's work activities.

FY 2019 ACCOMPLISHMENTS

- Staff conducted final outreach activities for Visualize 2045, including holding open houses in Maryland, Virginia, and the District of Columbia in the fall of 2018, and a final public comment period for the plan.
- Staff conducted a consultant-led evaluation of the TPB's public involvement activities, which was completed in February of 2019 and will be used to inform future public involvement activities, as well as the update of the TPB's Public Participation Plan.
- Staff provided support for 11 Citizens Advisory Committee meetings.
- Staff ensured that the public involvement opportunities specified in the TPB's Participation Plan are met, such as conducting public comment periods on key documents and public comments periods at the beginning of each TPB meeting.

8.2 Communications

The TPB News, the TPB's online newsletter, featured stories on the following subjects in June:

- "Enhanced mobility grantees share best practices to meet regional transportation needs"
- "Commuter Connections recognizes employers for making commuting easy"
- "Commercial construction slows in D.C. region, but office space and development near Metro stations rise"

Throughout the month, TPB staff maintained an active presence on social media. Staff also updated pages on the COG website related to transportation.

FY 2019 ACCOMPLISHMENTS

- Staff consistently produced the TPB News publication. There were 22 Email Newsletters sent between July 1, 2018- June 30, 2019.
- There were 46 TPB News Articles published between July 1, 2018-June 30, 2019.
- Staff insured that the TPB's website is user-friendly and up to date.

8.3 Human Services Transportation Coordination

During the month of June staff continued to prepare for the 2019 Enhanced Mobility Solicitation:

- The application was refined;
- The website was updated with solicitation details, related resources and pre-application conference schedule; and
- A conference call was held to prepare the grants management software system for launch.

Staff presented about the solicitation at TPB's Private Providers Forum on June 11, the Regional Public Transportation subcommittee on June 25, and coordinated dissemination of fliers about the solicitation to two applicable meetings in Montgomery County, Maryland.

In addition, a document of Enhanced Mobility projects funded to date was finalized and posted to the website and a TPB News article about past projects and the upcoming solicitation was released on June 25.

FY 2019 ACCOMPLISHMENTS

- Staff provided support for 6 Access for All Committee (AFA) meetings.
- Staff helped facilitate AFA feedback on Visualize 2045 to the TPB.
- Staff coordinated AFA participation in a focus group on the Washington Area Bust Transformation Project.
- Staff coordinated AFA involvement in COG's Public Participation feedback process.

- Staff finalized the Update to the Coordinated Human Service Transportation Plan, with input from the AFA, and facilitated TPB adoption.
- Staff completed the update to Enhanced Mobility Projects Funded to Date Document .
- Staff refreshed AFA membership by confirming member and participant interest and adding new members.
- Staff prepared for launch of 2019 Enhanced Mobility Solicitation.
- Staff moved information about the Enhanced Mobility Program from an external website to COG’s main website.
- Staff finalized application and other materials.
- Staff conducted outreach on grant opportunity to COG/TPB mailing lists, committees and interested stakeholders.
- Staff held a Grantee Best Practices Form and announced the 2019 Enhanced Mobility Solicitation.
- Staff published TPB News article on Grantee Best Practices Forum with emphasis on 2019 Enhanced Mobility Solicitation.
- Staff participated in local conferences (and one national), meetings, committees and events to spotlight and help encourage regional mobility management efforts.
- Staff brought AFA concerns to COG’s Dockless Bike and Scooter Share Workshop held on May 30.

Task 9	BUDGET	Billed this month	% Funds Expended	UPWP Page
TRANSPORTATION ALTERNATIVES (TAP) AND LAND USE CONNECTION (TLC) PROGRAMS	\$482,053	\$151,081	92%	55

9. TRANSPORTATION ALTERNATIVES (TAP) AND LAND USE CONNECTION (TLC) PROGRAMS

The TLC projects for FY 2019 were completed by May 31, as specified in the project contracts.

Staff began the consultant procurement process for the 13 new FY 2020 TLC projects. As the first step, staff sent a questionnaire to all the pre-qualified consultants asking them to indicate their preferences for this year’s projects. Based on the answers to those questionnaires, as well as input from the affected jurisdictions, staff will request proposals from a limited number of firms in July.

Applications for the Maryland Transportation Alternatives Set-Aside Program were due on May 15. Applications for the D.C. Transportation Alternatives Set-Aside Program were due on May 17.

Staff reviewed the applications for the National Capital Region. Staff also attended a meeting at the Maryland State Highway Administration to discuss the applications, and attended a site visit. The TPB is scheduled to vote on both Maryland and D.C. projects at its meeting on July 24.

Maryland Technical Assistance (TLC Program):

The three Maryland TLC projects funded under this PE number were completed by May of 2019.

Virginia Technical Assistance (TLC Program)

The two Virginia TLC projects funded under this PE number were completed by May of 2019.

FY 2019 ACCOMPLISHMENTS

- Staff completed the nine TLC projects funded in FY 2019. Activities included consultant selection, project oversight, and project administration.

- TPB solicited and selected TLC projects for FY 2020. Activities included solicitation of applications, evaluation of applications, and selection and approval of projects for funding.
- TPB selected projects for the funding sub-allocated to the TPB from the federal Transportation Alternatives Set-Aside Program. These selection processes are conducted separately for each of the TPB’s three state-level jurisdictions. Activities include coordination with the state DOTs, and evaluation, selection, and approval of projects for funding. For FY 2020, approvals occurred during the following months: Maryland in July 2019 and DC in July 2019. The Virginia TA Set-Aside Program is now conducted every two years. The next TPB approval is expected in the spring of 2020.
- Staff shared information about the TLC Program, including website updates and enhancements throughout the year.
- As part of the Transportation Land-Use Connections Program, three technical assistance projects in Maryland and two technical assistance projects in Virginia, were fully or partially funded.

Task 10	BUDGET	Billed this month	% Funds Expended	UPWP Page
TPB SUPPORT AND MANAGEMENT	\$893,653	\$53,597	85%	57

10. TPB SUPPORT AND MANAGEMENT

The TPB Technical Committee met on June 7. Agenda items included presentations MDOT’s Gov. Harry W. Nice/Thomas "Mac" Middleton Bridge Replacement Project. Prince George’s County’s new safe driving initiative titled, “Driving It Home,” an update on Virginia VTrans multimodal transportation plan, The City of Alexandria’s Transit Vision Plan, an update on NVTC’s Envision Route 7 project, and the region’s Bus Transformation Study. Additional items included a status report on the FY 2021-2024 TIP Update and Air Quality Conformity Analysis, and other business including updates on the 2019 Metro station closures and the National Capitol Regional Trail initiative.

The Transportation Planning Board met on June 19. Agenda items included reports of the technical committee, the Citizens Advisory Committee (CAC), and Steering Committee actions in addition to the report of the director. Information and notice items included the Transportation Planning Certification Review of the Metropolitan, a presentation on the Bus Transformation Project draft study, a briefing on inputs to the FY 2021-2024 TIP & 2020 Amendment to the Visualize 2045 Plan And Air Quality Conformity Analysis Scope of Work, a presentation on the Gov. Harry W. Nice/Thomas "Mac" Middleton Bridge Replacement Project and an MDOT TIP amendment.

This task also 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.

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

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

- State Technical Working Group (STWG)
- TPB Technical Committee
- TPB Steering Committee
- TPB Annual Private Providers Forum
- Citizens Advisory Committee (CAC)
- Transportation Planning Board (TPB)
- Bicycle & Pedestrian Subcommittee
- Regional Public Transportation Subcommittee (RPTS)

Support activities from the administrative staffs included: meeting logistics with meeting rooms and amenities, copying and distribution of meeting materials, email/phone call follow ups. Additionally, staff also worked on monitoring work program activities, providing administrative assistance to senior staff and monitoring and prepare financial reports. Additionally, administrative staff work on monthly financial administration and management activity which includes review and finalization of monthly expense reports for all UPWP activities, development and submission of monthly UPWP invoices and any follow up activity with the funding agencies.

The Staff Director provided overall program management oversight to all the Department's activities. Work activities the Director was involved in during the month of June 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.
- Participation in the bi-weekly meetings of the State Safety Oversight/Metro Safety Commission (SSO/MSO) Policy Work Group meetings. This "tri-state" group is working to reconstitute the existing Metro rail safety oversight Committee to comply with the requirement of the FAST Act.
- Metropolitan Washington Air Quality Committee

Other additional activities for the TPB Staff Director includes:

- Nice Bridge presentation discussion with MDOT
- Federal Certification Review Discussion
- Bus Transformation Project Discussion with COG ED
- Leadership Greater Washington - June 13 & 14 (closing retreat)
- Interview regarding Traffic Congestion in the Region and Possible Solutions with Lou Peck of Bethesda Magazine
- DTP IT Needs and Review with COG-IT Director
- Montgomery County – T & E Committee
- Meeting with Dr. Linda Millsaps, GWRC- ED
- Regional Housing Initiative – Discussion with COG ED and DCPS Director
- Meeting with NVTC ED
- Employer Recognition Awards – National Press Club

The UPWP activities include:

- Supervise the preparation, negotiation, and approval of the annual work program and budget involving the State Transportation Agencies, the TPB Technical Committee, the TPB Technical Committee, the Steering Committee and the TPB.

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

FY 2019 ACCOMPLISHMENTS

Staff support was provided for the following committees, subcommittees, task force meeting, workshops and conferences:

- TPB Technical Committee – 11 meetings
- TPB Steering Committee – 11 meetings
- Transportation Planning Board (TPB) – 11 meetings
- State Technical Working Group (STWG) – 11 meetings
- Citizen’s Advisory Committee (CAC) – 11 meetings
- Access for All Advisory Committee (AFA) – 4 meetings
- Systems Performance, Operations & Technology Subcommittee (SPOTS) – 4 meetings
- Metropolitan Area Transportation Operations Coordination (MATOC) – 9 meetings
- TPB Freight Subcommittee – 5 meetings
- Bicycle & Pedestrian Subcommittee – 6 meetings
- Private Providers Annual Transit Forum – 1 meeting
- Dockless Bikeshare Workshop – 1 meeting
- Traffic Incident Management Enforcement Task Force – 3 meetings
- COG’s CAOs Metro Technical Panel – 1 meeting
- MWCOG Board Meetings – 11 meetings
- COG Planning Directors Technical Committee – 3 meetings

Other additional activities held by the TPB Staff Director are listed below:

- Long Range Task Force Case Study
- Validation and Approval of FHWA Plans Works Case Study
- Meet and Greet w DCOP Director, Andrew Trueblood
- Greater Washington Partnership / Urban Institute Housing Initiative
- FAMPO Certification Review Discussions
- Arrive at Home Campaign (Prince George’s County Councilwoman)
- Bus Transformation Project Strategy Advisory Panel
- COG/BOT Smart Regions Movement Briefing
- Dialog on Highway Automation Workshop
- Nice Bridge Strategy
- COG Housing and Meeting
- Presentation to WMATA Finance and Capital Committee

Media Interviews

- WUSA9 w/ Pete Muntean re: Amazon Impact on Transportation
- NBC4 Talk Show @ Visualize 2045

Task 11	BUDGET	Billed this month	% Funds Expended	UPWP Page
TECHNICAL ASSISTANCE	\$1,147,520	\$325,858	68%	59
District of Columbia	\$276,756	\$40,771	98%	59
Maryland	\$393,802	\$109,219	64%	61
Virginia	\$411,798	\$174,855	56%	63
WMATA	\$65,164	\$1,012	42%	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.

Traffic Counts and Highway Performance Monitoring System (HPMS) Support

Staff reviewed the HPMS software validation report from DDOT and provided a response to DDOT along with the updated submittal file.

Staff summarized and analyzed the May traffic data from PCS, FTMS, and HERE stations and shared the summary with DDOT staff for field inspection purposes. Staff reviewed and accepted 74 short term counts delivered by the contractor. In addition, staff finalized the 2018 traffic count archive.

Staff provided traffic data relating to the I-395 HOV Bridge Project to DDOT by request. In addition, staff provided 2014 to 2017 AADT to DDOT by HPMS section indicating the count type for each value, to be used to create the DC Traffic Volume map.

On behalf of DDOT, staff discussed PM3 validation errors with CATLAB staff.

Staff executed the traffic counting contract amendment exercising the first option year.

TIGER Grant Performance Monitoring Addendum

Progress for this item is reported in the Transit Planning section of this progress report.

Big Data Evaluation

This project is being jointly funded by the District of Columbia, Maryland, Virginia, and WMATA. The status of this project is provided under the Regional Transit/WMATA section of this progress report.

FY 2019 ACCOMPLISHMENTS

- Staff participated in 8 HPMS Committee meetings during FY 2019.
- Staff provided oversight of the contractor’s performance and reviewed and accepted 242 short-term counts during 2019.
- Staff monitored the performance of DDOT’s permanent counting stations and provided DDOT with monthly summary reports as well as organizing a special meeting with FHWA and DDOT staff to discuss the ongoing PCS issues.
- Staff analyzed all short-term and permanent counts to prepare the traffic part of the 2018 HPMS submittal to FHWA.
- Staff developed the DDOT 2019 through 2023 counting program.

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.

VRE-MARC Run Through Study

The kick-off meeting for this project was conducted. Staff began bi-weekly check-in calls with the contractor (Foursquare ITP), and the workplan was finalized and distributed to the Technical Advisory Committee.

Big Data Evaluation

This project is jointly funded by the District of Columbia, Maryland, Virginia, and WMATA. The status of this project is provided under the Regional Transit/WMATA section of this progress report.

Traffic Relief Plan (TRP)

Staff attended the May I-495 & I-270 Managed Lanes Study Interagency Meeting to monitor the project development activities. Staff also worked with the project team and provided guidance on how to establish whether proposed development patterns assumed in specific corridors in the study area were incorporated in demographic data inputs to travel demand modeling.

Maryland Technical Assistance (TLC Program)

As part of the Transportation/Land-Use Connections Program, four technical assistance projects in Maryland were fully or partially funded under this PE number. See TLC item above for further details about the TLC Program.

Maryland Technical Assistance (TLC Program)

As part of the Transportation/Land-Use Connections Program, four technical assistance projects in Maryland were fully or partially funded under this PE number. See TLC item above for further details about the TLC Program.

FY 2019 ACCOMPLISHMENTS

- Staff developed the project scope, budget, request for proposals, and Foursquare ITP was selected for the Market Assessment and Technical Feasibility for VRE-MARC Run Through Service in the National Capital Region.
- Program oversight and monitoring was provided.
- FY 2019 carryover and FY 2020 program and budgets were developed.
- Data requests were responded to.

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 Surveys

Staff planned and participated in bi-weekly check-in phone calls for the VDOT Mode Share Studies: I-66 and I-395 and for the VDOT Non-Motorized Traffic Study.

Staff drafted and executed the on-call traffic monitoring contract amendment exercising the first option year.

Staff worked on the VDOT Mode Share Studies project for both the I-66 and I-395 corridors. This included: attending all coordination meetings; requesting the transit data from different transit

operators, conducting the data analysis based on the collected data for highway, transit and non-motorized trips, and drafting the technical reports.

VRE-MARC Run Through Study

This project is funded by Maryland and Virginia, please see the description under Maryland.

Big Data Evaluation

This project is being jointly funded by the District of Columbia, Maryland, Virginia, and WMATA. The status of this project is provided under the Regional Transit/WMATA section of this progress report.

Virginia Technical Assistance (TLC Program)

As part of the Transportation/Land-Use Connections Program, two technical assistance projects in Virginia were fully or partially funded under this PE number. See TLC item above for further details about the TLC Program.

VDOT Capital Beltway Sensitivity Test

In support of VDOT project planning efforts, staff conducted a sensitivity test to determine if limited ramp/auxiliary lane modifications to the Beltway HOT lanes project would change the outcome of the conformity analysis of Visualize 2045. As part of interagency consultation, staff presented the proposed sensitivity test to the MWAQC TAC and to the Technical Committee at their respective monthly meetings. The work included updating networks, travel demand, and emissions estimates for the 2025 forecast year. Staff developed a letter to convey the results of the sensitivity test to VDOT, which will be shared with the Technical Committee, MWAQC TAC, and the TPB at their respective meetings in July and September.

FY 2019 ACCOMPLISHMENTS

- Project scopes and budgets were developed.
- Program oversight and monitoring was provided.
- FY 2019 carryover and FY 2020 program and budgets were developed.
- Staff drafted the statement of work, reviewed the cost proposal, executed the task order, facilitated communication between the contractor and VDOT staff, reviewed the count files, and routinely checked on the progress of the following projects: (1) Non-Motorized Count Project and (2) Mode Share Studies; and
- Data requests were responded to.

11.4. Regional Transit/WMATA

Program Development, Data Requests, and Miscellaneous Services

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

Staff, with WMATA, coordinated with Regional Public Transportation Subcommittee to identify priorities for the FY 2020 Budget.

TIGER Grant Performance Monitoring Addendum

Progress for this item is reported in the Transit Planning section of this progress report.

Big Data Evaluation

For the proposed study to develop a framework to evaluate big data in regional travel and mobility, the Technical Selection Committee recommended Kimley-Horn as the selected contractor for the project. Kimley-Horn was notified of the award. A contract was developed and is currently under review by Kimley-Horn.

FY 2019 ACCOMPLISHMENTS

- Project scopes and budgets were developed.
- Program oversight and monitoring was provided.
- FY 2019 carryover and FY 2020 program and budgets were developed.
- Staff developed the scope and budget, issued a request for proposals, and convened a technical selection committee which selected Kimley-Horn for the Framework for Evaluating Big Data in Regional Travel and Mobility Analyses project.
- Data requests were responded to.

12. CONTINUOUS AIRPORT SYSTEM PLANNING

Staff reviewed and internally finalized adjustments to the 2019 Washington-Baltimore Regional Air Passenger Survey instrument based on comments provided by the Aviation Technical Subcommittee.

Staff prepared the updated 2019 Washington-Baltimore Regional Air Passenger Survey instrument and associated materials for the upcoming internal pretest at COG.

In coordination with the Metropolitan Washington Airports Authority (MWAA) and the Maryland Aviation Administration (MAA), staff continued to finalize Phase 2 of the Regional Air System Plan (RASP).

Staff provided an updated budget and project narrative to the Federal Aviation Administration (FAA) for the upcoming Air Passenger Survey Response Rate Study, supported by the FAA Supplemental Grant Funding that COG was awarded earlier this year.

FY 2019 ACCOMPLISHMENTS

- Six Aviation Technical Subcommittee meetings were held between July 2018 and May 2019.
- There was \$175,000 received in supplemental Airport Improvement Program (AIP) funding from the Federal Aviation Administration (FAA) to support the Air Passenger Survey Response Rate Study.
- Staff completed the General Findings, Geographic Findings, and Ground Access Forecasting for the 2017 Washington-Baltimore Regional Air Passenger Survey.
- Staff completed Phases 1 and 2 of the Comprehensive Regional Air System Plan (RASP) Update.
- There were significant updates to the 2019 Washington-Baltimore Regional Air Passenger Survey instrument, informed by staff and Aviation Technical Subcommittee review, as well as an internal pretest with COG-TPB staff.

**FY 2019 TRANSPORTATION PLANNING BOARD
COG/TPB BUDGET EXPENDITURE SUMMARY**

June 2019

	DC, MD and VA FTA, FHWA and LOCAL BUDGET TOTAL	FUNDS EXPENDED	BILLED THIS MONTH	% FUNDS EXPENDED
1. Long-Range Planning				
Planning	1,049,855.00	832,248.98	102,558.34	79%
SUBTOTAL	1,049,855.00	832,248.98	102,558.34	79%
2. Performance-Based Planning and Programming				
Planning	350,945.00	345,141.09	75,859.54	98%
Transportation Improvement Plan	350,945.00	301,809.90	50,915.01	86%
SUBTOTAL	701,890.00	646,951.00	126,774.55	92%
3. Mobile Emissions Planning				
Air Quality Conformity	900,000.00	805,195.03	76,824.78	89%
Mobile Emissions Analysis	987,121.00	810,604.60	80,286.77	82%
SUBTOTAL	1,887,121.00	1,615,799.63	157,111.54	86%
4. Planning Programs				
Congestion Mgmt Process	425,000.00	443,604.29	37,847.36	104%
Planning Programs System Pref. Ops Tech Planning	529,037.00	515,658.71	30,780.45	97%
Planning Programs Transp Emergency Preparedness	135,000.00	139,876.74	13,918.21	104%
Transportation Safety Planning	145,000.00	135,511.47	6,112.02	93%
Bicycle & Pedestrian Planning	155,000.00	156,886.22	15,526.91	101%
Regional Public Transit	175,000.00	173,586.67	5,679.60	99%
Freight Planning	160,000.00	149,782.13	7,190.68	94%
MATOC	135,000.00	130,774.14	10,827.90	97%
SUBTOTAL	1,859,037.00	1,845,680.39	127,883.12	99%
5. Travel Forecasting				
Software Support	150,000.00	134,710.47	11,365.97	90%
Network Development	826,200.00	843,012.88	55,656.26	102%
Models Development	1,177,891.00	1,053,380.35	116,505.39	89%
SUBTOTAL	2,154,091.00	2,031,103.70	183,527.61	94%

**FY 2019 TRANSPORTATION PLANNING BOARD
COG/TPB BUDGET EXPENDITURE SUMMARY**

June 2019

	DC, MD and VA FTA, FHWA and LOCAL BUDGET TOTAL	FUNDS EXPENDED	BILLED THIS MONTH	% FUNDS EXPENDED
6. Travel Monitoring and Data Programs				
Travel Monitoring Studies and Research	1,050,177.00	986,079.17	441,865.73	94%
Travel Monitoring Studies and Research	340,492.00	54,152.17	17,633.36	16%
Regional Transportation Data Clearinghouse	334,075.00	281,871.66	22,839.83	84%
GIS Data	685,590.00	524,827.08	50,432.70	77%
SUBTOTAL	2,410,334.00	1,846,930.09	532,771.61	77%
7. Cooperative Forecasting and Transportation Planning Coordination				
Cooperative Forecasting Coordination	915,451.00	897,801.88	102,598.62	98%
SUBTOTAL	915,451.00	897,801.88	102,598.62	98%
8. Public Participation and Human Service Transportation Coordination				
Public Participation	996,891.00	677,528.95	65,283.64	68%
Human Service Trans Coordination	265,000.00	70,859.25	7,409.09	27%
SUBTOTAL	1,261,891.00	748,388.20	72,692.72	59%
9. Transportation Alternatives and Transportation Land Use Connection Program				
Alternatives and TLC	482,053.00	442,915.46	151,081.87	92%
SUBTOTAL	482,053.00	442,915.46	151,081.87	92%
10. TPB Support and Management				
TPB Support and Mgmt	893,653.00	707,258.57	53,597.97	79%
SUBTOTAL	893,653.00	707,258.57	53,597.97	79%
SUBTOTAL CORE PROGRAM ITEMS 1-10	13,615,376.00	11,615,077.88	1,610,597.96	85%
TECHNICAL ASSISTANCE				
District of Columbia	276,756.00	272,285.62	40,771.55	98%
Maryland	393,802.00	250,460.65	109,219.11	64%
Virginia	411,798.00	228,862.65	174,855.23	56%
WMATA	65,164.00	27,142.72	1,012.15	42%
Technical Assistance Program Total	1,147,520.00	778,751.63	325,858.05	68%
TPB GRAND TOTAL	14,762,896.00	12,393,829.51	1,936,456.01	84%

**FY 2019 TRANSPORTATION PLANNING BOARD
FINANCIAL STATUS OF TECHNICAL ASSISTANCE**

June 2019
SUPPLEMENT 1

	TOTAL		FTA/STA/LOC		PL FUNDS/LOC	
	AUTHORIZED BUDGET	TOTAL EXPENDITURES	AUTHORIZED BUDGET	FTA EXPENDITURES	AUTHORIZED BUDGET	FHWA EXPENDITURES
A. District of Columbia						
DC Program Development	10,000.00	9,258.25	2,255.07	2,087.80	7,744.93	7,170.46
DDOT HPMS	235,000.00	252,774.32	52,994.06	57,002.29	182,005.94	195,772.03
OTHER TASK TBD	18,756.00	0.00	4,229.60	0.00	14,526.40	0.00
Tiger Grant Perf Mon Addendum	10,000.00	10,000.00	2,255.07	2,255.07	7,744.93	7,744.93
Big Data Study - DC	3,000.00	253.05	676.52	57.06	2,323.48	195.98
SUBTOTAL	276,756.00	272,285.62	62,410.32	61,402.22	214,345.68	210,883.40
B. Maryland						
MD Program Development	15,000.00	6,814.14	3,382.60	1,536.63	11,617.40	5,277.51
Project Planning Studies	100,000.00	70,253.33	22,550.67	15,842.59	77,449.33	54,410.73
Feasibility/Special Studies	25,000.00	0.00	5,637.67	0.00	19,362.33	0.00
Training, Misc and Tech Support	20,000.00	0.00	4,510.13	0.00	15,489.87	0.00
Transportation/Land Use Connection Program	160,000.00	159,847.03	36,081.06	36,046.57	123,918.94	123,800.46
Other Tasks TBD	53,802.00	0.00	12,132.71	0.00	41,669.29	0.00
MARC - VRE Runthrough - MD	15,000.00	13,166.57	3,382.60	2,969.15	11,617.40	10,197.42
Big Data Study -MD	5,000.00	379.58	1,127.53	85.60	3,872.47	293.98
SUBTOTAL	393,802.00	250,460.65	88,804.97	56,480.54	304,997.03	193,980.10
C. Virginia						
VA Program Dev & Data Document Processing	15,000.00	7,430.22	3,382.60	1,675.56	11,617.40	5,754.65
Travel Monitoring Surveys	150,000.00	102,907.21	33,826.00	23,206.26	116,174.00	79,700.95
Travel Modeling	40,000.00	25,061.15	9,020.27	5,651.46	30,979.73	19,409.70
Regional and SubRegion Studies	15,000.00	0.00	3,382.60	0.00	11,617.40	0.00
OTHER TASKS TBD	91,798.00	0.00	20,701.06	0.00	71,096.94	0.00
Transportation Land Use Connections	80,000.00	80,000.00	18,040.53	18,040.53	61,959.47	61,959.47
MARC - VRE Runthrough - VA	15,000.00	13,274.30	3,382.60	2,993.44	11,617.40	10,280.85
Big Data Study - VA	5,000.00	189.77	1,127.53	42.80	3,872.47	146.98
SUBTOTAL	411,798.00	228,862.65	92,863.19	51,610.05	318,934.81	177,252.60
D. WMATA						
Program Development	5,000.00	4,481.10	5,000.00	4,481.10	0.00	0.00
TBD	32,164.00	0.00	32,164.00	0.00	0.00	0.00
Tiger Grant Perf Mon Addendum	18,000.00	18,000.00	18,000.00	18,000.00	0.00	0.00
Big Data Study - WMATA	10,000.00	4,661.62	10,000.00	4,661.62	0.00	0.00
SUBTOTAL	65,164.00	27,142.72	65,164.00	27,142.72	0.00	0.00
GRAND TOTAL	1,147,520.00	778,751.63	309,242.48	196,635.53	838,277.52	582,116.10