

# UPWP TECHNICAL ASSISTANCE PROJECT UPDATES

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# Presentation Outline

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- Technical Assistance Program Overview
- FY 2019 UPWP Technical Assistance Program Summary
- FY 2019 Projects by State/Agency
- Key Projects



# Technical Assistance Program Overview

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- TPB responds to requests for technical assistance from state and local governments and transit operating agencies
- Not a federally-mandated MPO function – Unique to TPB
- Tasks entail use of TPB-developed tools, techniques, data, and staff capabilities
- Supports DDOT, MDOT, VDOT, VDRPT, and WMATA sub-area planning, travel monitoring, travel modeling, and data collection consistent with regional transportation planning priorities
- Funding is agreed-upon percentage of UPWP work program
- Technical Assistance support requests are developed through interagency collaboration and coordinated through the State Technical Working Group (STWG)



# Overview: 3 General Project Categories

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- 1. Assisting state and local agencies in pre-planning analyses**
  - Montgomery County, working with the Maryland State Highway Administration, requested support in analyzing feasibility of BRT
  - Virginia Beltway travel time studies
  
- 2. Internal data gathering**
  - I-95/I-395 HOV counts
  - Non-motorized counts in the District of Columbia
  
- 3. Studies that can help inform larger regional interests**
  - Commuter Bus Parking Study
  - Regional Bus Service Provision Study



# FY 2019 Technical Assistance Program

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- **\$1.4 million total FY2019 Technical Assistance Budget**
  - \$284,000 – District of Columbia
  - \$519,000 – Maryland
  - \$437,000 – Virginia
  - \$180,000 – Regional Transit, including WMATA



# FY 2019 Projects – District of Columbia

<b>District of Columbia</b>	
Program Development, Data Requests, & Misc.	\$10,000
Traffic Counts and Hwy Perf. Monitoring Sys (HPMS)	\$235,000
TIGER Grant Performance Monitoring Addendum	\$10,000
Big Data Evaluation	\$10,000
Other tasks to be defined	\$18,756
<b>DC Program Total</b>	<b>\$283,756</b>



# FY 2019 Projects – Maryland

<b>Maryland</b>	
Program Development, Data Requests, & Misc.	\$15,000
Project Planning Studies	\$100,000
Feasibility/Special Studies	\$25,000
VRE-MARC Run Through Study	\$25,000
Travel Monitoring/Transportation Perf Measures	\$100,000
Big Data Evaluation	\$20,000
Miscellaneous Technical Support	\$20,000
Transportation/Land Use Connections Program	\$160,000
Other Tasks to be Defined	\$53,802
<b>MD Program Total</b>	<b>\$518,802</b>



# FY 2019 Projects – Virginia

<b>Virginia</b>	
Program Development, Data Requests, & Misc.	\$15,000
Travel Monitoring and Survey	\$30,000
I-66 Cordon Count	\$120,000
Travel Demand Modeling	\$40,000
Regional and Sub-Regional Studies	\$15,000
VRE-MARC Run Through Study	\$25,000
Big Data Evaluation	\$20,000
Transportation/Land Use Connections Program	\$80,000
Off Cycle Conformity Amendment	\$90,000
Other Tasks to be Defined	\$1,798
<b>VA Program Total</b>	<b>\$436,798</b>



# FY 2019 Projects – Regional Transit / WMATA

<b>Regional Transit/WMATA</b>	
Program Development, Data Requests, & Misc.	\$5,000
TIGER Grant Performance Monitoring Addendum	\$18,000
Big Data Evaluation	\$125,000
Other Tasks to be Defined	\$32,164
<b>Regional Transit Program Total</b>	<b>\$180,164</b>



# Key Projects – Big Data Evaluation (1)

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- Big Data: Very large datasets, often collected passively via smartphones, apps, and GPS, that can be analyzed to identify patterns and trends in human behavior and activity
- Significant potential for MPOs and other planning agencies to use Big Data to perform analyses and obtain key insights on regional travel behavior
- Independent evaluation of Big Data and its use in regional travel and mobility analyses and modeling
- Provide TPB with necessary information and understanding of the strengths, limitations, applicability, and acquisition costs of various potential Big Data sources before committing to a significant investment in Big Data



# Key Projects – Big Data Evaluation (2)

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- Deliverable: Consultant report containing three principal elements:
  1. Documentation of other large MPOs use/application of Big Data
  2. Analysis of potential Big Data sources and their appropriateness in addressing myriad regional mobility research questions
  3. Recommendations for investing and maintaining Big Data
- Cost: \$175,000
  - Jointly funded by Regional Transit/Wmata (125k), DDOT (10k), MD (20k), & VA (20k)



# Key Projects – MARC-VRE Run Through

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- Assessment of the market potential for a one-seat commuter rail service between points in the State of Maryland and the Commonwealth of Virginia
- Determine if potential exists to influence development and revitalization of suburban commercial centers
- Consider impact/influence of Amazon HQ in National Landing, VA
- Deliverable: Report documenting methodology, findings, and recommendations
- Cost: \$100,000
  - Performed over two years
  - Jointly funded by Maryland and Virginia in equal shares



# Key Projects – Transportation Land-Use Connection (TLC) Projects

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- Since 2007, the TLC program has provided short-term consultant assistance to local jurisdictions working on creative and sustainable plans and projects, which can include, among others:
  - Corridor and transit station planning
  - Streetscape improvement plans
  - Bike/ped safety and access studies
  - Safe Routes to School planning
  - Transit-oriented development studies
  - Trail planning and design
  - Design guidelines & roadway standards
  - Transit demand & feasibility analysis
- Maryland and Virginia are providing funding through their respective portions of the Technical Assistance program to support additional TLC projects
- Cost: Maryland: \$160,000; Virginia: \$80,000



# Key Projects – TIGER Grant Performance Monitoring Addendum

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- Technical Assistance funds used to complete the series of one-year and two-year “After” reports required as part of the TPB/COG TIGER Grant for Bus Priority Transit in the National Capital Region
- 30 reports evaluating the outcomes of the Transit Signal Priority installations and other improvements completed through the grant along fifteen bus transit corridors in the District of Columbia, Northern Virginia, and Suburban Maryland
- Cost: District of Columbia: \$10,000; WMATA: \$18,000



# Other Notable FY 2019 Projects

State/Agency	Project
District of Columbia	<ul style="list-style-type: none"><li>Traffic Counts and Highway Performance Monitoring System (HPMS) Program support</li></ul>
Maryland	<ul style="list-style-type: none"><li>Regional modeling support for pre-planning activities</li></ul>
Virginia	<ul style="list-style-type: none"><li>Non-motorized counts</li><li>I-66 Analysis</li></ul>



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**Transportation Planning Board**