

# THE FY 2024 UNIFIED PLANNING WORK PROGRAM PROJECTS

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## New activities and projects

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# Summary Select New UPWP Activities

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1. Assist in development of statewide Carbon Reduction Strategy Plans
2. Participate in development of MSA level Priority Climate Action Plan.
3. Study examining implementation considerations associated with TPB Climate Change Mitigation Strategies
4. Develop (jointly with COG), a Regional EV Infrastructure Deployment Plan
5. Develop a regional Transportation Resiliency Improvement Plan (TRIP)
6. Study to better understand mobility and accessibility issues within TPB's Equity Emphasis Areas
7. Compare / reconcile TPB EEAs with federal Justice40 areas
8. Study examining local bus service and walk/bike access to High Capacity Transit stations (HCTs)
9. Regional survey of intercity bus and rail passengers
10. Coordinated transit (bus and rail) on board surveys
11. Identify current travel patterns and trends using "big data".



# Presentation Overview

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Project/task highlights for the FY 2024 Unified Planning Work Program (UPWP)

- Approved by board in March
- Awaiting federal approval

Focus topics for FY 2024:

- Climate Change
- Equity and Access
- Data Collection and Analysis



# Climate Change



# Climate Change Mitigation Planning – Implementation Support

- New federal programs to support implementation
  - Carbon Reduction Program (CRP)
    - ~\$12 million funding for the region per year
    - Coordination with state DOTs
    - All projects must be identified in TIP
    - States required to develop Carbon Reduction Strategy by November 15, 2023
  - Carbon Pollution Reduction Grant (CPRG) program
    - Partnership between District of Columbia and COG
    - Priority Climate Action Plan due in March 2024
- Further study on implementation considerations for identified greenhouse gas (GHG) reduction strategies

# Transportation Resilience Study – Phase II

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- Building upon previous efforts in 2021 and 2022, TPB staff initiated Phase II of the Transportation Resilience Study which will include two major deliverables:
  - Transportation Resilience Improvement Plan (TRIP) to prepare TPB members for PROTECT funding
  - Regional interactive transportation resilience map
- This effort also includes the formation of a Transportation Resilience Planning Working Group, with plans for the group to evolve into a formal subcommittee
- *TPB Board was briefed on this effort on May 17, 2023*
- *TPB Technical Committee was briefed on May 5, 2023*

# Regional Electric Vehicle (EV) Infrastructure Deployment

- Provide support for COG's Regional Electric Vehicle Deployment (REVD) Working Group
- Development of Regional Electric Vehicle Infrastructure Implementation Strategy
  - Funded in part through UPWP Technical Assistance Program
  - Designed to support state and local governments as they prioritize locations for EV infrastructure deployment and apply for funding
  - Develop projections for future light-duty electric vehicle registrations
  - Identify priority locations for publicly accessible EV infrastructure deployment



# Bus Decarbonization (Transition to ZEVs)

- Assist efforts by the region's transit agencies to decarbonize and transition to Zero Emission Vehicles (ZEVs)
- Still evaluating how we can complement the work other agencies and jurisdictions are doing and add value
- Potential concepts include:
  - Recommend locations and inventory infrastructure needs for e-bus charging at stops and stations
  - Study of hydrogen (H<sub>2</sub>) infrastructure for fuel-cell buses (and potentially other heavy-duty vehicles)
  - Regional efforts in support of workforce development, part inventories, maintenance vehicles, joint procurements, fire and safety training, etc.



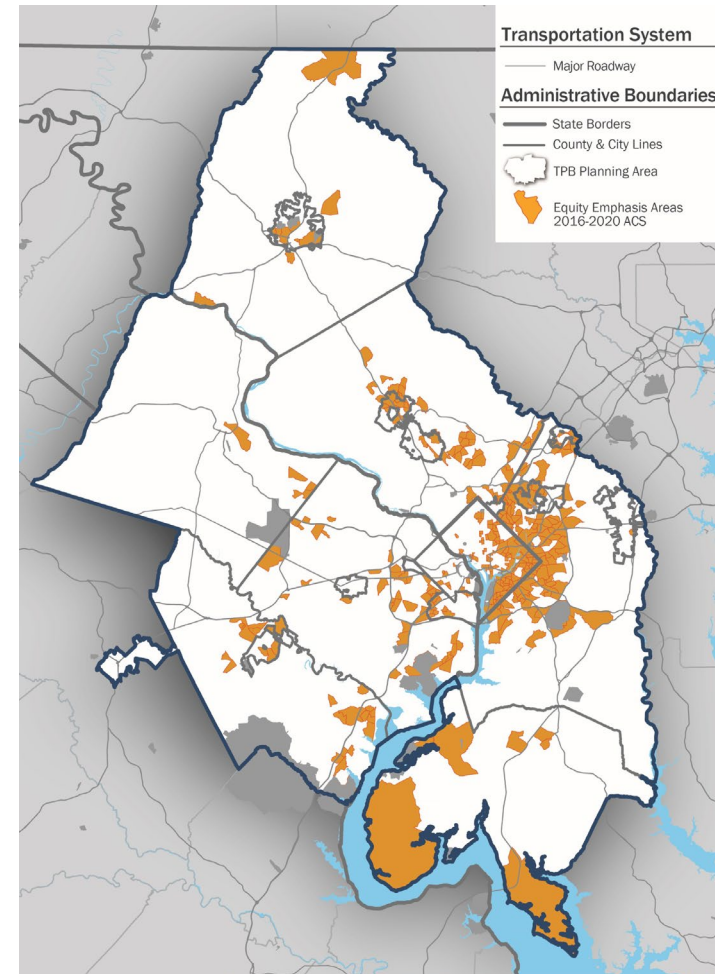


# Equity and Access



# Equity Emphasis Areas

- Deeper dive analysis to identify specific mobility and accessibility needs of disadvantaged populations in the region
- Examine relationship between TPB EEAs and Federal Government-identified Justice40 Disadvantaged Communities
- Results to be shared with state, local, and agency partners to consider in their planning and programming activities



# Access to Bus Services

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A study to analyze local bus transit services to High Capacity Transit Stations (HCTs) and related access issues

- Build on TPB's previous HCT work and COG's Region United framework (<https://www.mwcog.org/about-us/cog-board-and-priorities/2030-framework/>)
- Support regional bus planning efforts (e.g., WMATA Better Bus, Ride On Reimagined, etc.)

The analysis will look at local bus services at HCTs:

- Bus services connecting to other HCTs, to regional Activity Centers outside HCTs, and to EEAs
- Current and planned HCT accessibility to determine any potential need for improved bus or non-motorized access



# Data Collection and Analysis



# Intercity Bus and Rail Passenger Travel

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- Effort to address federal planning requirements and refresh TPB's 2016 *Count of Intercity Bus Traffic* Study by collecting information on intercity bus and rail travel in the NCR
- Intent is to conduct a regional survey gathering ridership information on intercity buses, commuter buses, rail transit, and commuter rail, updating the survey last completed in 2016, to advise regional planning and coordination



# Coordinated Transit On-board Data Collection

- Partner with WMATA and more than 20 other public transportation providers in the region to identify transit on-board data needs to support regional travel demand modeling activities
- Develop a program to coordinate collection of on-board data on a more frequent/ongoing basis
- Provide technical support such as sampling, instrument design, data processing and publishing, and coordination activities among various public transportation providers
- Maintain regional dataset on regional transit on-board trip characteristics



# Enhanced Congestion Analysis

- The Congestion Management Process (CMP) within UPWP Task 3 compiles information and undertakes analysis for the development of major CMP components
- In FY 2024, we plan to expand application of “big data” sources (adding sources not previously available/used), in conjunction with other UPWP tasks’ data activities
- New data anticipated to include traveler information (e.g., origin-destination, routing, mode-specific information; previously had mostly systems/link speed information)
- Hope to improve existing CMP products (dashboard, CMP Technical Report, special studies) plus find new insights
- Vehicle Probe Data Users Group (VPDUG) continues its role to foster technical and methodological coordination



# Travel Monitoring and Trends Analysis

- Enhance travel monitoring and trends analysis programs through enhanced tools
- Acquire passively-collected dataset (“big data”) containing O/D and other trip characteristics to enhance travel monitoring and travel trends analysis activities
- Enhance visualizations and data products
- Streamlined or new data collection such as more frequent Regional Travel Survey and active transportation counts





# Next Steps

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- Work under the FY 2024 UPWP begins July 1, 2023 (to June 30, 2024)
- Our work depends on coordination and cooperation with state DOT, jurisdictional, and other agency staff
  - Regional data and information requests
  - Committee/subcommittee review and comment on draft materials and briefings
- Our goal is to make our work products accurate, relevant, and useful



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