

# MOBILITY ANALYTICS SUBCOMMITTEE

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## Meeting #1 – December 2025

Ian Newman

TPB Program Manager – Travel Monitoring and Planning Assistance

Mobility Analytics Subcommittee (MAS)

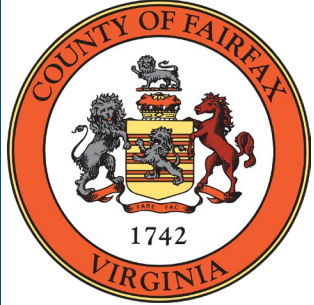
December 11, 2025



National Capital Region  
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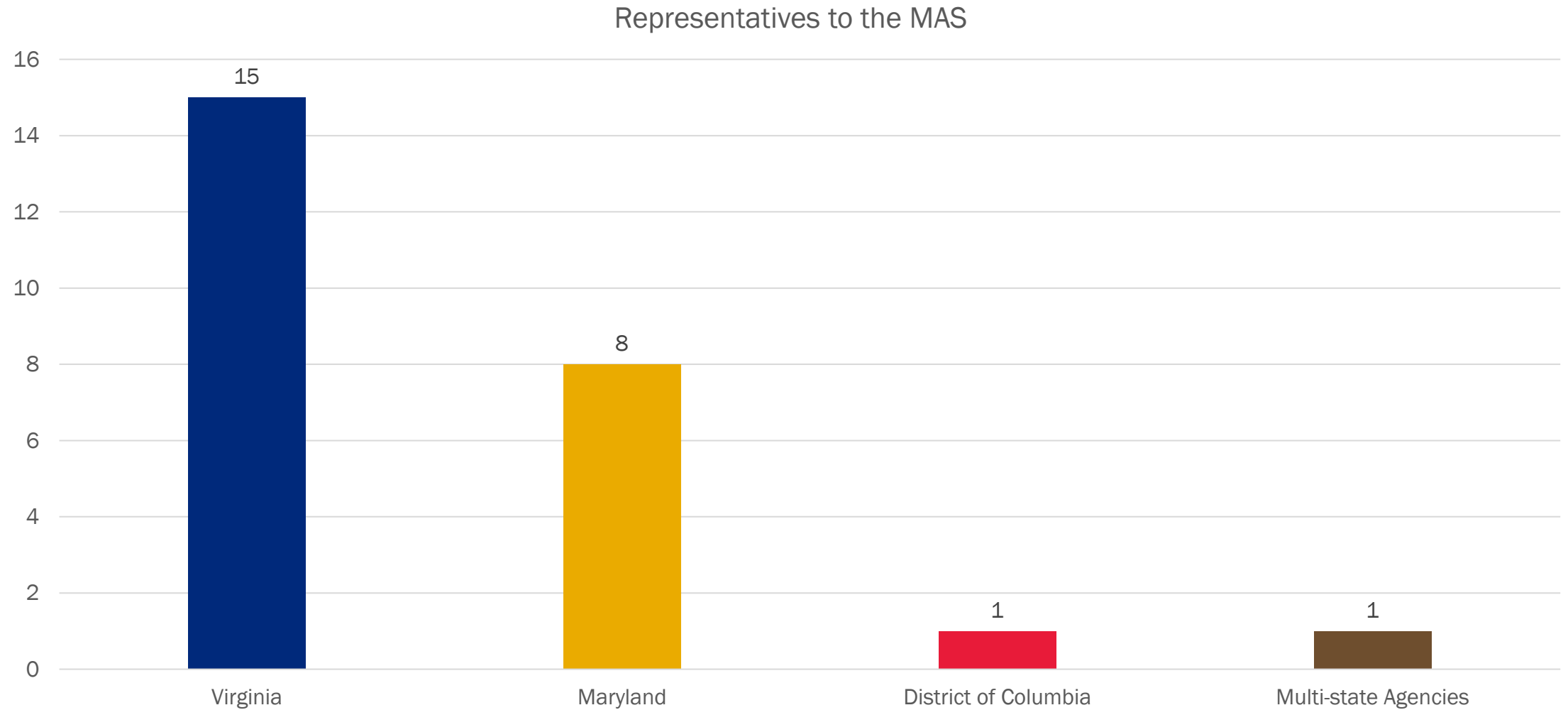


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# Representation Continued!









# Context for MAS's Formation



Chinatown Neighborhood of Washington, DC (Phillip Nelson/iStock)

- Since 2005 – travel monitoring activities were performed under the Travel Forecasting Subcommittee's (TFS's) guidance
- To help serve TFS' mission, and to help guide the development of the Mobility Analytics Program (MAP), the responsibility that included travel monitoring activities shifted to this dedicated subcommittee in late 2025
- It is critical to leverage robust, diverse, and plentiful data found throughout numerous agencies, organizations, and municipalities throughout the TPB region that can be utilized to inform a comprehensive snapshot of the TPB region's transportation network, which is the primary aim of the MAP



# High Level Goals of the MAS

- Advise TPB staff on the present and future development of the Mobility Analytics Program (MAP)
- Identify significant challenges and opportunities concerning the MAP and serve as a forum for TPB members and other stakeholders to properly address these challenges and opportunities
- Collaborate on the integration of the MAP and Congestion Management Process (CMP)
- Discuss regional developments relevant to transportation systems operations and probe data utilization



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**There is an alternative to commuting by rail. But could we live with it?**

Every working day, 400,000 people travel in and out of London by British Rail.  
But there is an alternative. Like Los Angeles, we could rely entirely on roads instead.  
Of course, some roads would have to be widened to take the extra traffic. Not only that, but we'd need to build an estimated 120 additional lanes of highway.  
Even then, there would still be the problem of what to do with all the cars as they converged on Central London.  
Looking at it that way, it makes a lot of sense to invest in our way.

**British Rail**  
**The backbone of the nation**

British Rail 1979 Advertisement (Futureurbanistclub/[Instagram](#))



# Status Update for the MAP

- Staff met with MWCOG-internal Subject Matter Experts (SMEs) to collaborate on identifying metrics
- Staff presented to the TPB Tech and subcommittees (RPTS and TFS)
- Round 1.0 identified 70 metrics that comprise six (6) categories
- Data gathering has been accomplished for 40/70 metrics
- Draft data visualization plans have been addressed on 30/70 metrics
- A draft product is currently under development – ArcGIS Experience Builder



Evening congestion from Washington, DC to Arlington, VA on Memorial Bridge, February 1973 (Yoichi Okamoto/[US NARA](#))



# Categories, and Subcategories, of Metrics (Part 1)

- Safety (pro tempore, 10 metrics)
  - Auto-Oriented (3)
  - Active Transportation (6)
  - Truck-Related (1)
- Asset Management (pro tempore, 3 metrics)
  - Infrastructure Condition (3)



I-495 Woodrow Wilson Bridge seen from Prince George's County, MD (iStock/Michael Donahue Photography)





# Categories, and Subcategories, of Metrics (Part 2)

- Congestion Management (pro tempore, 24 metrics)
  - Public Transportation/Transit (10)
  - Congestion Management Process (8)
  - Travel Behavior and Demand (4)
  - Active Transportation and Non-Motorized Travel (2)
- Economic Development (pro tempore, 7 metrics)
  - Regional Airport Economic Impacts (2)
  - Trucking and Freight Economic Impacts (5)



View along I-66 from the overpass for Catharpin Road (VA Route 676) in Gainesville, Prince William County, VA (Famartin/[Wikimedia Creative Commons](#))



# Categories, and Subcategories, of Metrics (Part 3)

- Environmental Considerations (pro tempore, 11 metrics)
  - Emissions and Air Quality (10)
  - Clean Transportation and Environmental Resilience (1)
- Cooperative Forecasting (pro tempore, 15 metrics)
  - Jobs and Destinations (7)
  - Land Use and Socioeconomic (8)



A Capital Bikeshare Station in Downtown Washington, DC (Mariordo/[Wikimedia Creative Commons](#))





# Next Steps

- Plans for Next Meeting
  - Update on metrics data that have been gathered + data visualization plans
  - Continued development on MAP product + CMP products
  - Chair for the MAS
- Microsoft Form
  - Next meeting's, and future meetings', logistics/details
  - Takeaways/comments concerning this meeting and what you would like to see next meeting
  - Thoughts on next steps for the MAP



Pennsylvania Avenue NW Heading Towards the US Capitol Building in Washington, DC (Ted Eytan/[Wikimedia Creative Commons](#))





# QUESTIONS?



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