



TPB TRAVEL MONITORING PROGRAM

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TPB Technical Committee
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National Capital Region
Transportation Planning Board

Agenda Item 7

Program Vision and Goals

- **Program Vision:** Design and implement a program that informs the TPB, TPB member agency staff, TPB staff, and other regional partners and individuals on the key indicators concerning comprehensive, and multimodal, regional travel trends across various transportation-related categories.
- **Program Goal:** Create a dynamic, interoperable tool that captures a measurable snapshot of the comprehensive transportation network in the region.
- **Program Milestone:** Present this program to the TPB Technical Committee and TPB for approval.
- **Program End Milestones:** (1) Host the Travel Monitoring Program's contents online in an interactive environment for internal use as well as for TPB's partners and stakeholders. (2) Standup the Travel Monitoring Subcommittee (name is TBD).

Categories of Metrics

- A total of seven (7) categories containing applicable metrics of investigation for the program, include:
 - Safety
 - Asset Management
 - Congestion Management
 - Economic Development
 - Environmental Considerations
 - Project Investments
 - Miscellaneous



Timelapse shot of I-95 (Northern Virginia Transportation Alliance)



Metrics Considerations

As the metrics are considered and identified for the program, they are currently, temporarily grouped into three categories that will be used to assign priority and schedule for development:

1. Minimum Metrics (MM):

- These metrics form the foundation of a travel monitoring program.

2. Ought-to-Have Metrics (OM):

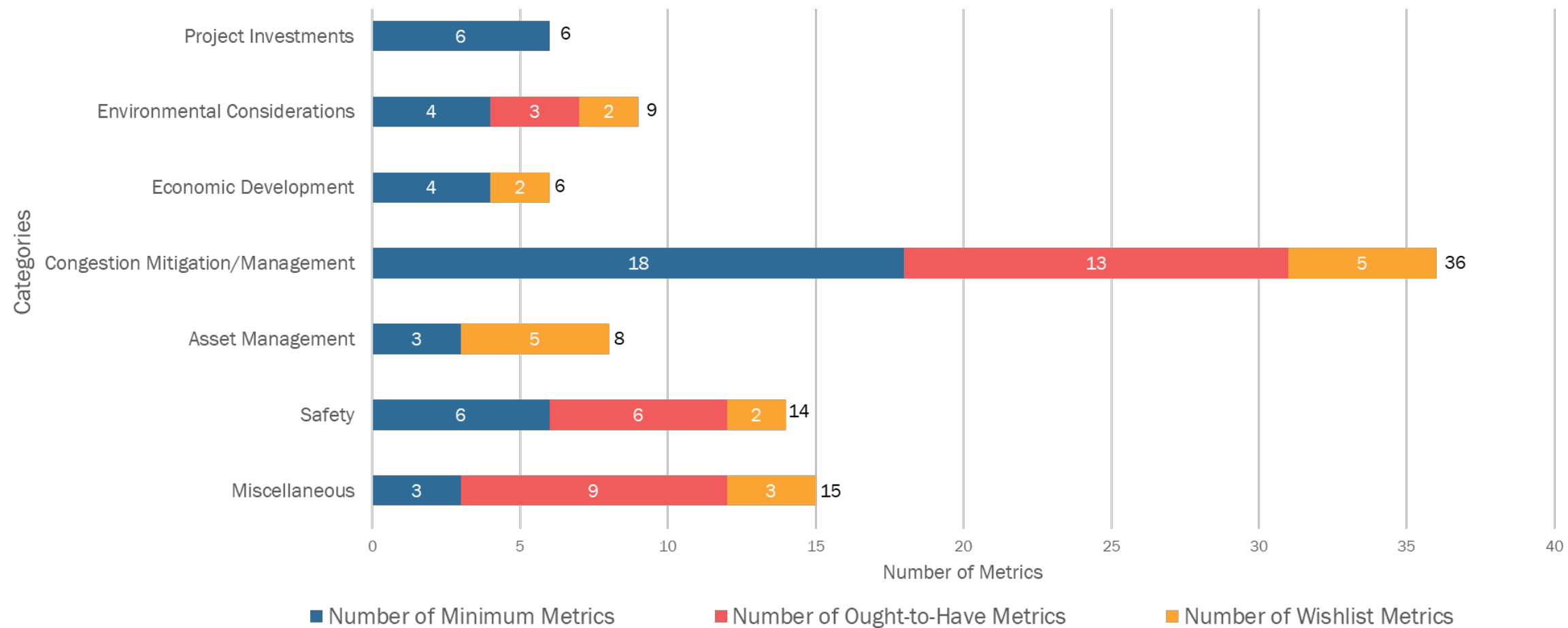
- These are metrics that a travel monitoring program should have, but they are the not necessary metrics to form the foundation of a monitoring program.

3. Number of Wishlist Metrics (WM):

- These are metrics that would be intelligent to implement, time and data permitting.



Current Representation of Travel Monitoring Categories + Metrics



Status of Metrics

- 44 Minimum Metrics (MM) have been identified with data sources mapped.
- Numerous Ought-to-Have Metrics (OM) and Wishlist Metrics (WM) have been identified and mapped.
- **Example MM:**
 - Total number of fatalities (Safety category)
- **Example OM:**
 - Total VMT by activity (Congestion Mitigation/Management category)
- **Example WM:**
 - Total number of bikes on buses (Economic Development category)



Key Considerations

- **Target Audience:**
 - TPB, member agencies, staff, partners & stakeholders
- **Purpose of Travel Monitoring:**
 - Track: congestion management (1); mode share (2); air quality compliance (3); safety measures and performance (4)
 - Track targets and trendlines to achieve set targets across key metrics
- **Potential MPOs for Comparison (*across certain metrics*):**
 - Boston, Dallas, Philadelphia, Atlanta, Chicago, Houston
- **Data Management Framework:**
 - GIS databases as standardized data storage protocol



WMATA Gallery Place/Chinatown Station (Alex Wong/Getty Images)











Integration with TPB's online resources

- Will be accessible through TPB's TPB Resources Application Page (TRAP)
- <https://trap-mwcog.hub.arcgis.com/>

Categories

Explore data from each category below by clicking on the 'Explore' button

 <p>visualize 2045 A long-range transportation plan for the National Capital Region</p> <p><u>Long-Range Planning</u></p> <p>The long-range transportation plan provides a snapshot in ti...</p> <p>Explore</p>	 <p><u>Transit, including High-Capacity Transit (HCT)</u></p> <p>HCT is defined as Metrorail, Commuter Rail, Light Rail, Bus...</p> <p>Explore</p>	 <p><u>System Performance</u></p> <p>Congestion management, safety, freight, performance-based...</p> <p>Explore</p>	 <p><u>Active Transportation</u></p> <p>Travel options such as walking and bicycling, micromobility a...</p> <p>Explore</p>
 <p><u>Travel Monitoring, Trends & Demographics</u></p> <p>Data and resources documenting regional travel trends,...</p> <p>Explore</p>	 <p><u>Resiliency and Natural Hazards</u></p> <p>Resources related to TPB's efforts to address challenges to our...</p> <p>Explore</p>	 <p><u>Commuter Related Content</u></p> <p>Resources for commuting options</p> <p>Explore</p>	 <p><u>Additional Resources</u></p> <p>Resources from other TPB programs, TPB member agenci...</p> <p>Explore</p>



TPB Technical Committee Request

- Provide input on metrics and product recommendations
- Assist with initiating a travel monitoring-based subcommittee, and with membership distribution
 - No distribution list capacity
 - TBD items include: (1) Meeting cadence; (2) Size of subcommittee membership



Source: Northern Virginia Transportation Alliance



Next Steps



Source: District Department of Transportation

- Continue coordination work with internal Subject Matter Experts (SMEs) and staff leadership on data requirements, potential staff technical skill utilization, and data visualization suggestions for the program
- Obtain input from members of technical subcommittees
- Identify program oversight responsibilities, which will likely entail recommendation to establish a new Travel Monitoring Subcommittee



Next Steps (Continued)



Source: Virginia Department of Transportation

- Present proposed enhanced travel monitoring program, including program oversight, to the TPB
- Convene program oversight group
- Program implementation
- Travel monitoring would incorporate the efforts of the Congestion Management Process (CMP) program, as the CMP feeds into travel monitoring in addition to being its stand-alone program



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