TPB'S ENHANCED TRAVEL MONITORING PROGRAM UPDATE

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Regional Public Transportation Subcommittee
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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 (completed 6/6/2025) for approval.

- **Program End Milestones:** (1) Host the Travel Monitoring Program's contents online in an <u>interactive</u> environment for internal use as well as for TPB's partners and stakeholders. (2) Standup the Travel Monitoring Subcommittee (name is TBD).

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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)

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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.
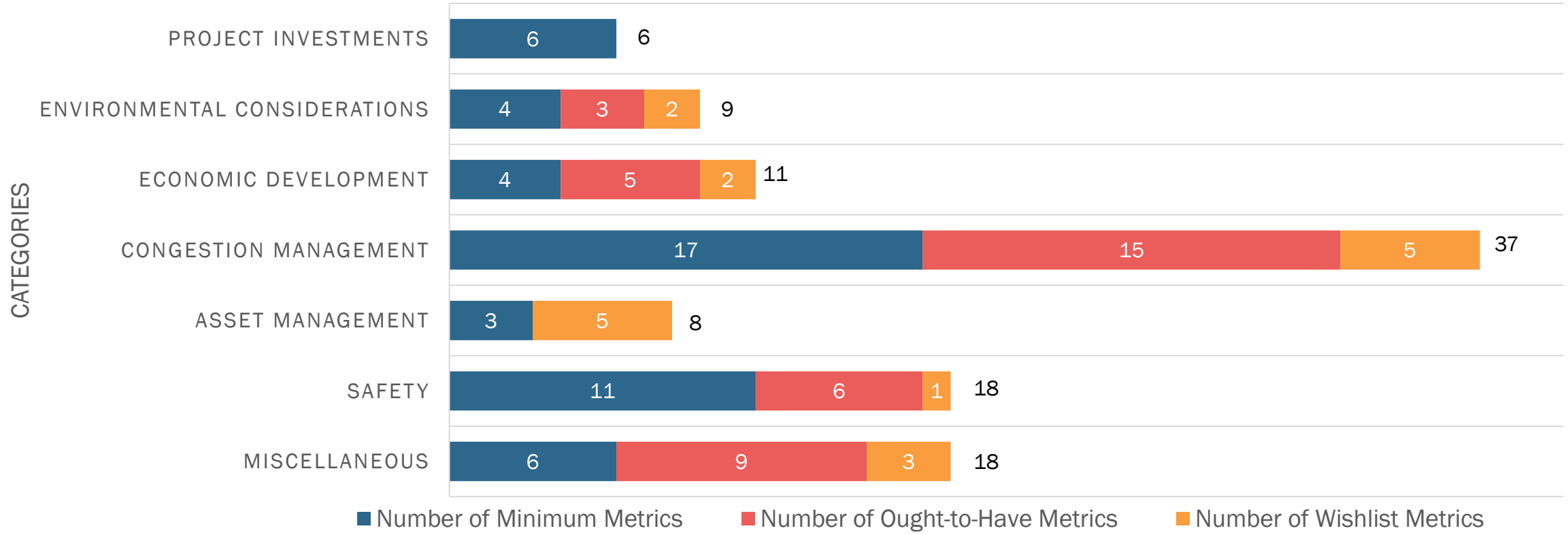
3. **Number of Wishlist Metrics (WM):**

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

Current Representation of Travel Monitoring Categories + Metrics

TRAVEL MONITORING CATEGORIES AND COMPRISING METRICS

CATEGORIES

Category	Number of Minimum Metrics	Number of Ought-to-Have Metrics	Number of Wishlist Metrics	Total
PROJECT INVESTMENTS	6			6
ENVIRONMENTAL CONSIDERATIONS	4	3	2	9
ECONOMIC DEVELOPMENT	4	5	2	11
CONGESTION MANAGEMENT	17	15	5	37
ASSET MANAGEMENT	3		5	8
SAFETY	11	6	1	18
MISCELLANEOUS	6	9	3	18

■ Number of Minimum Metrics   ■ Number of Ought-to-Have Metrics   ■ Number of Wishlist Metrics

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Status of Metrics

- 51 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 transit-related collisions (Safety category)

- **Example OM:**

  - Total vehicles parked at park and ride facilities/WMATA garages (Congestion Management category)

- **Example WM:**

  - Average weekday bikeshare ridership data from rental kiosks within 1 mile of HCTs (Congestion Management category)

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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

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

- Potential MPOs for Comparison *(across certain metrics)*:

  - Boston, Dallas, Philadelphia, Atlanta, Chicago, Houston

- Data Management Framework:
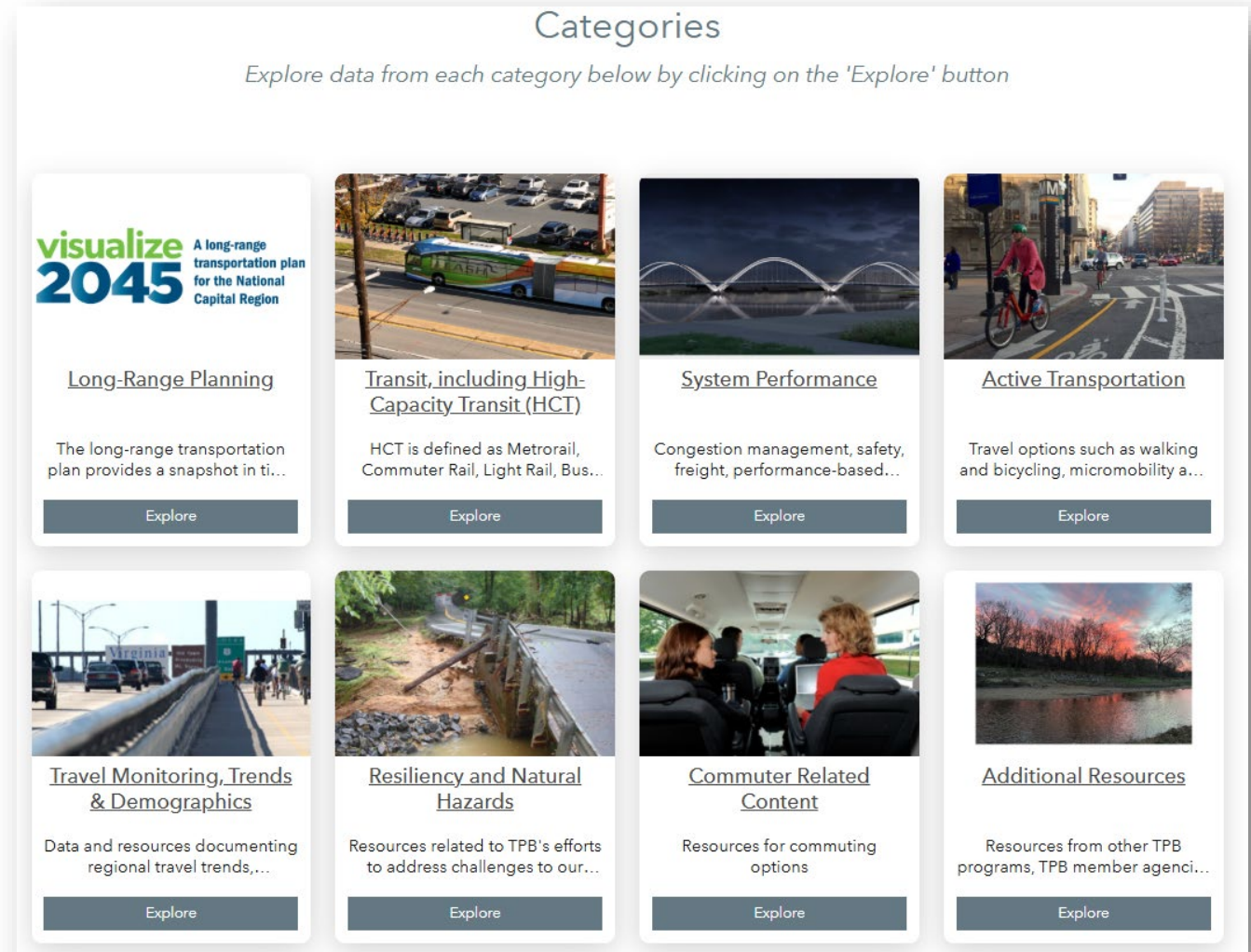
  - GIS databases as standardized data storage protocol

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Integration with TPB's online resources

- Will be accessible through TPB's TPB Resources Application Page (TRAP)

- https://trap-mwcog.hub.arcgis.com/

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

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Next Steps (Continued)

Source: Virginia Department of Transportation

- Convene program oversight group

- Program implementation

- *Note*: 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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