



Finance and Budget Committee

Information Item III-A

January 10, 2019

**Visualize 2045
Regional Long-Range Transportation Plan**

An Overview of Visualize 2045

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WMATA Budget And Finance Committee
January 10, 2019

visualize2045
A LONG-RANGE TRANSPORTATION PLAN FOR THE NATIONAL CAPITAL REGION



National Capital Region
Transportation Planning Board

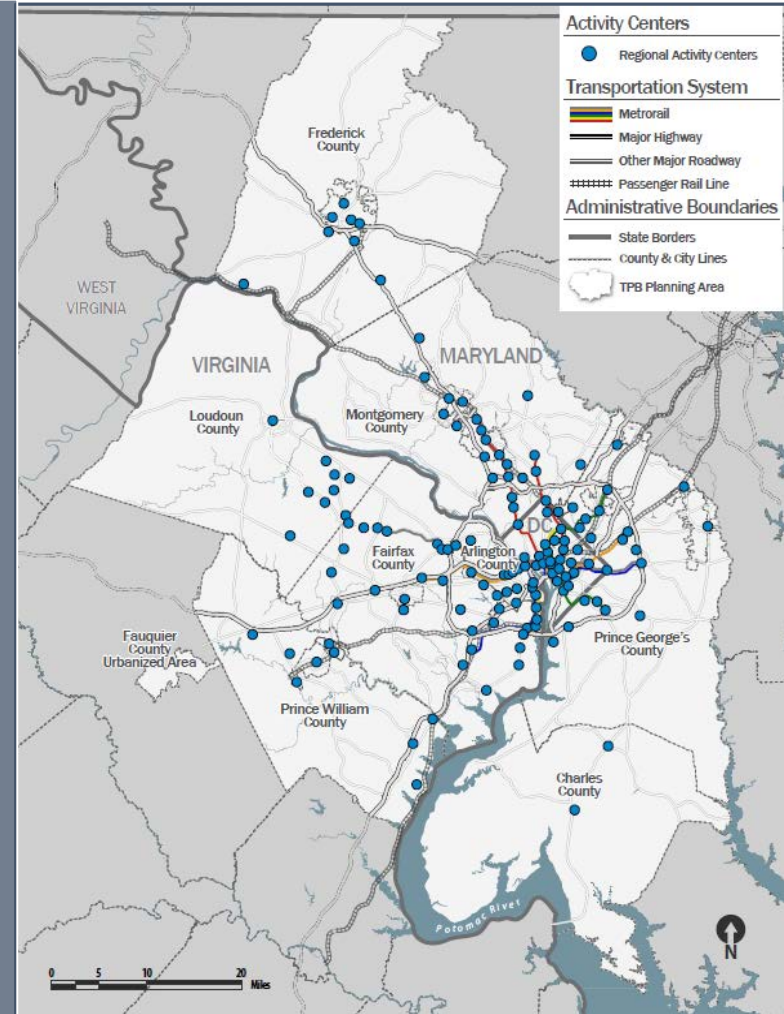


Topics



TPB and its Planning Area

- State(s) established, Federally designated metropolitan planning organization (MPO) for the Washington region
- District of Columbia, Northern Virginia, Suburban Maryland
 - 24 local jurisdictions **and WMATA**
 - 3,500 sq.mi. (Core/IS/OS)
 - 5.7M people / 3.3M jobs
 - 141 Activity Centers
- 45 members (Voting-39, Ex-Officio-6)
- Funded by Feds (80%), State (10%), Localities (10%)



Why TPB matters

- Federally required for:
 - Approval of project and program
 - Release of federal funds (Operations and Capital)
- Only place for a regional and multi-modal examination of:
 - Planned projects, programs and policies
 - Transportation investment plans of all jurisdictions
 - Quantitative assessment of changes to Mobility and Accessibility
- Only place for a continuous, comprehensive, cooperative regional dialogue

Place to develop regional (mobility) consensus for progress



What TPB Does And How

- Regional Planning

What we do!

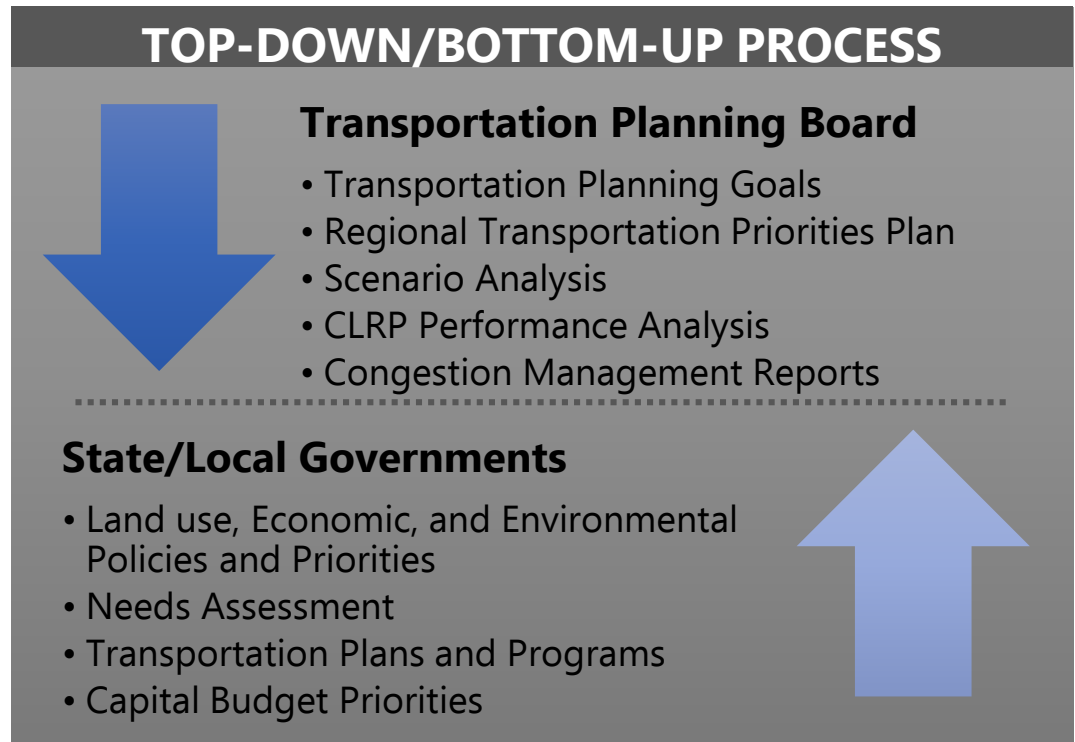
That is all we do!!

- TPB's Approach

*Continuous
Comprehensive
Cooperative*

- Essence of TPB's Planning Efforts

- Think Regionally!
Act Locally!!

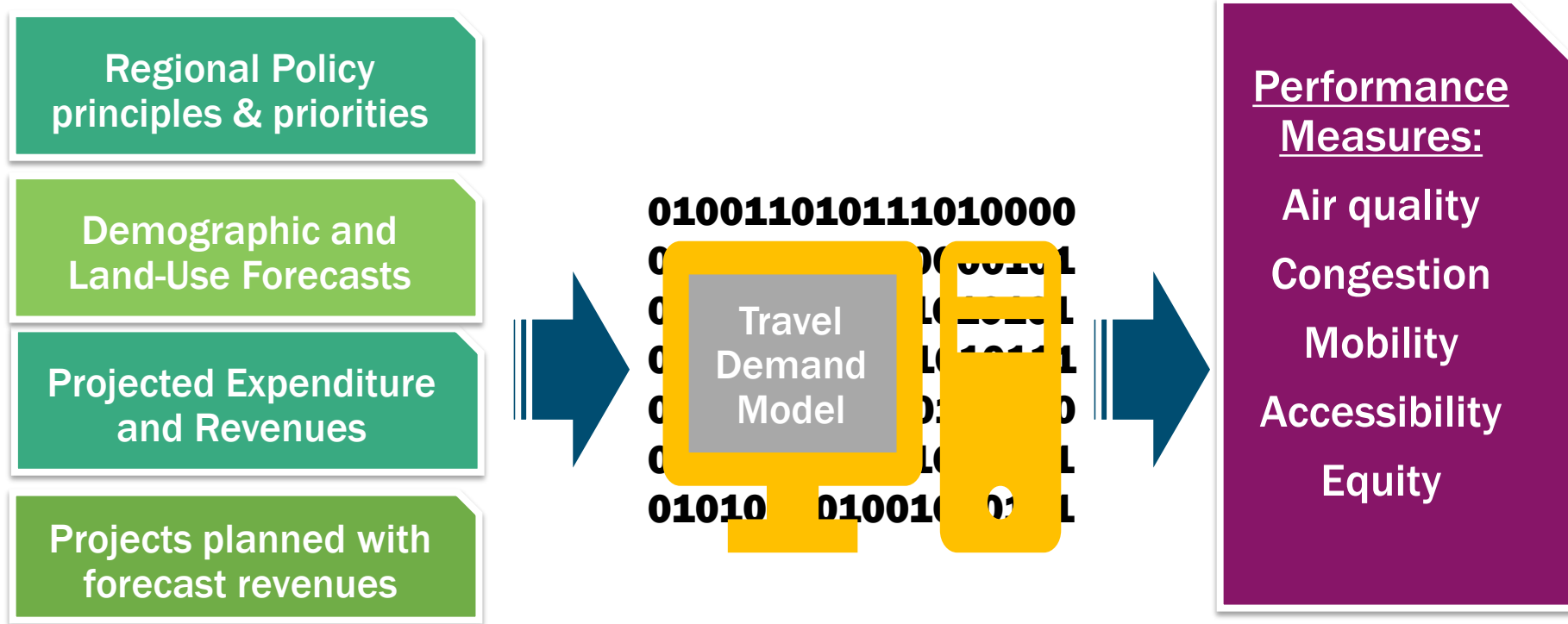


Visualize 2045 Is

- Region's (federally required) long range transportation plan
- Looks at demand and supply sides of mobility
- Helps decision makers and the public “visualize” the region's future by illustrating:
 - What the region **plans to do** with current levels of funding
 - How the region's plan **meets** federal requirements
 - **Anticipated** changes in system performance
 - Region's **aspirational initiatives** to improve future system performance



Elements (*informing us to*) Visualize 2045



TPB Policy Element

Think Regionally, Act Locally:

Local decision making process to consider regional needs.

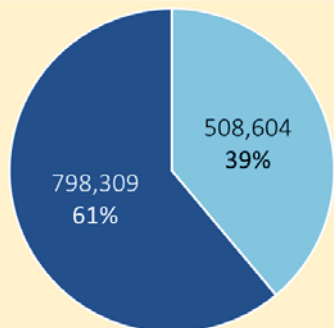


- Provide a Comprehensive Range of Transportation Options
- Promote Dynamic Activity Centers
- Ensure System Maintenance, Preservation, and Safety
- Maximize Operational Effectiveness and Safety
- Protect and Enhance the Natural Environment
- Support Interregional and International Travel and Commerce



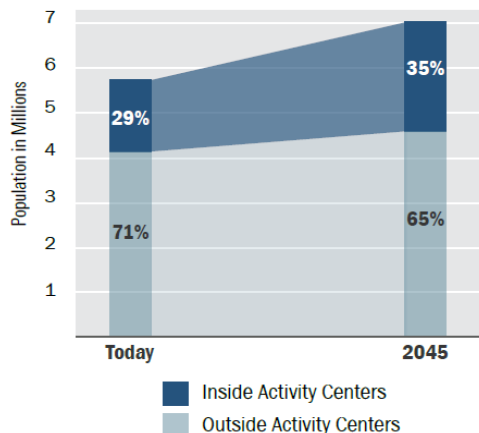
Regional Demographic And Land Use Growth

New Regional Residents Between Now and 2045



■ Outside Activity Centers
■ Inside Activity Centers

2045 Total Population

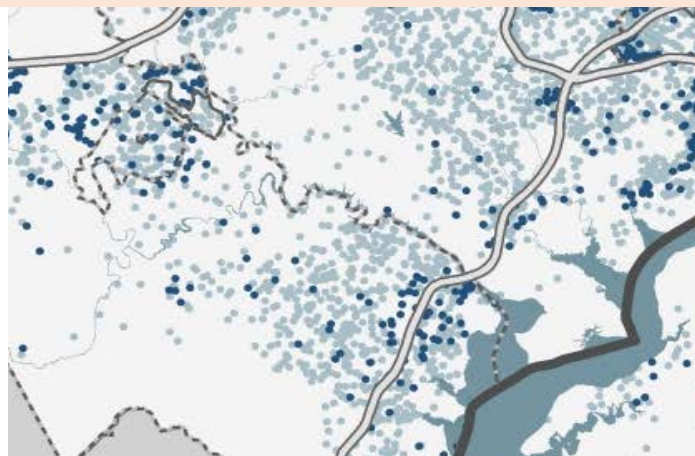


Population growth: 23% increase

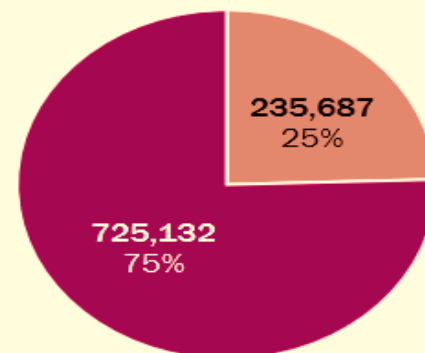
- 5.7M to 6.9M (+1.2M)

Employment growth: 29% increase

- 3.3M to 4.3M (+1M)

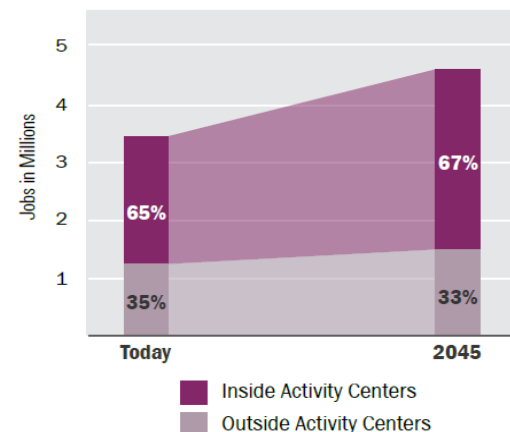


New Regional Jobs Between Now and 2045



■ Outside Activity Centers
■ Inside Activity Centers

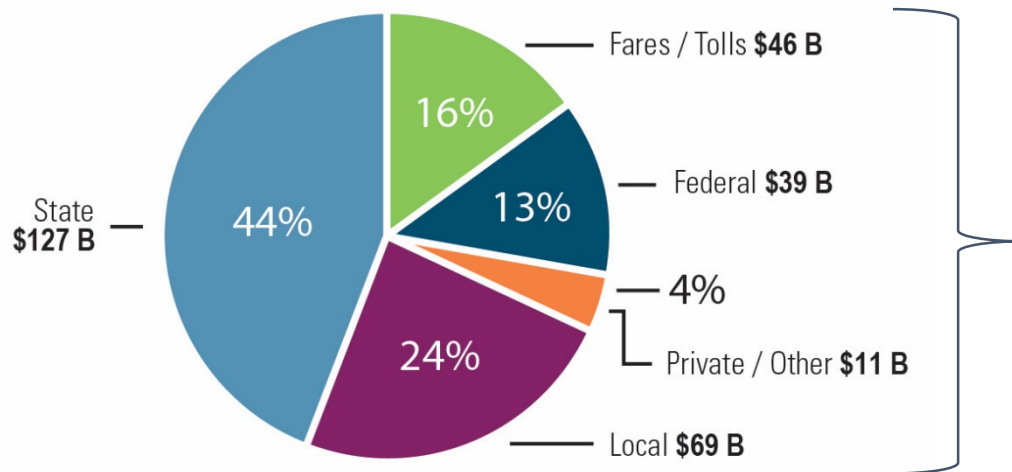
2045 Total Jobs



Reasonably Expected Revenues: Visualize 2045

Visualize 2045 Revenues

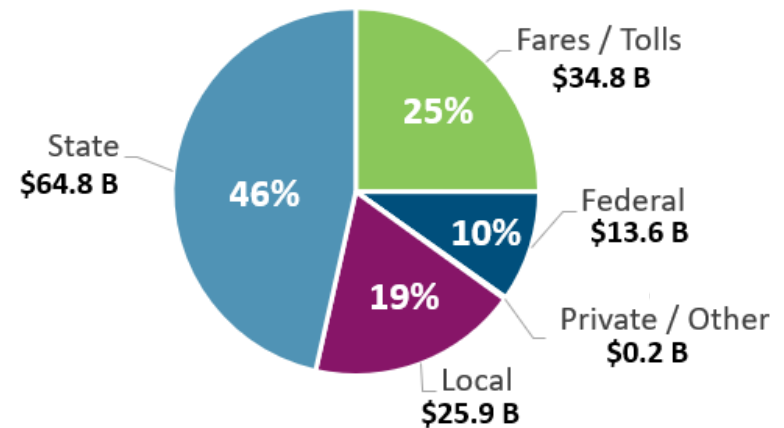
\$ Billions Year of Expenditure



Total: \$291.1 Billion

**Units in Billions*

WMATA Revenues (2019 – 2045)

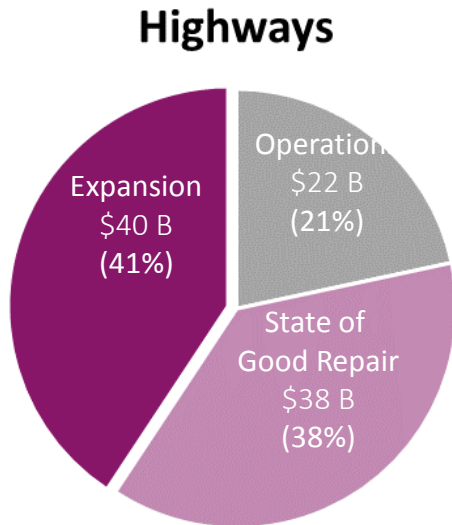


Total: \$139.3 Billion

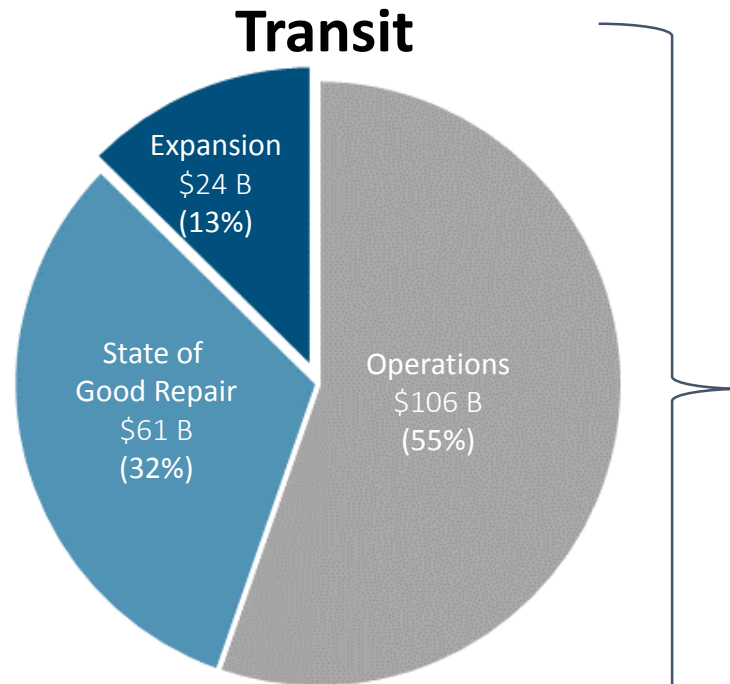
48% of Regional Total



Planned Expenditures: Visualize 2045

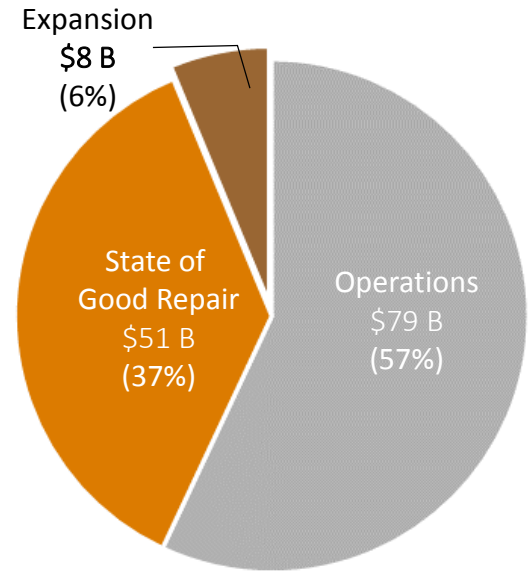


\$99.5 Billion
(34% of total expenditures)



\$191.6 Billion
(66% of total expenditures)

WMATA Expenditures (2019 – 2045)



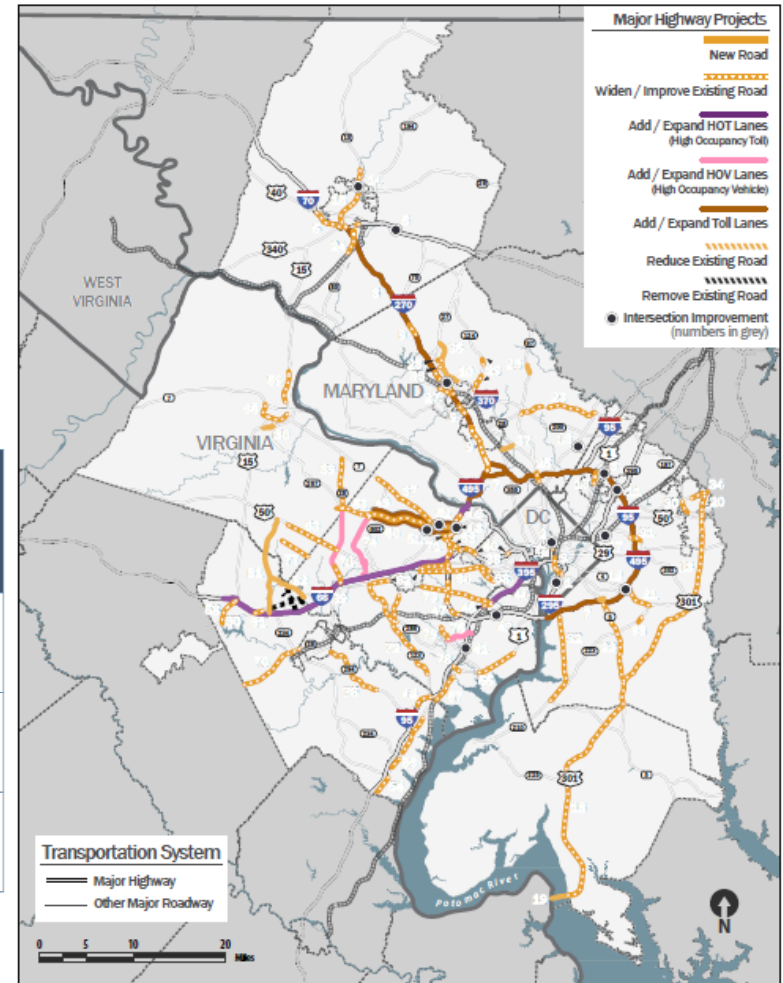
\$139.3 Billion
73% of Transit expenditures



Projects in the Financially Constrained Element

- Includes more than 600 projects that expand or change the region's highway or transit system capacity
- Projects adding system capacity

	Roadway	Managed Lanes (subset of roadway)	High-Capacity Transit*
Existing	17,048 lane miles	436 lane miles	292 miles
Added by Visualize 2045	1,388 lane miles	461 lane miles	124 miles
Total 2045	18,436 lane miles	897 lane miles	416 miles



WMATA Capacity Expansion Projects

Silver Line Phase 2

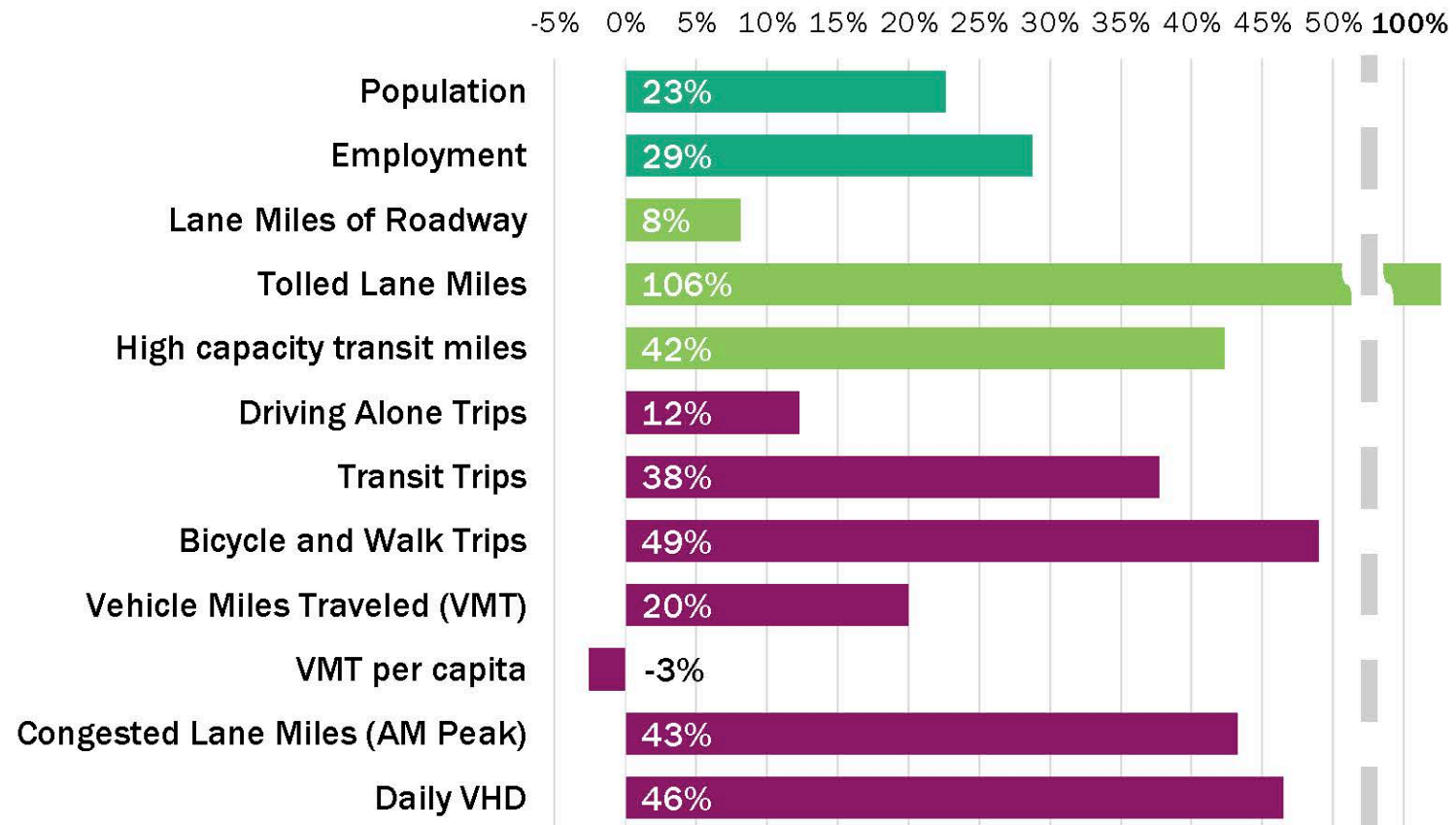
Metrorail Core Capacity Improvements

- 8-car trains system-wide during peak periods.
- Core stations capacity improvements (Including power systems upgrade)

New Station at Potomac Yard



Performance Overview, % Change 2019 – 2045 Build



Other measures not displayed: Connectivity, Accessibility, Mobility, Equity



TPB's Aspirational Initiatives



- Bring jobs & housing closer together – Optimize the land-use balance around Activity Center locations. Build additional housing in the region to match employment projections.
- **Expand BRT & transitways** -- Add bus rapid transit and other transitways throughout the region.
- **Move more people on Metrorail** – Implement Metrorail capacity improvements, including 8-car trains on all lines. Add a second Rosslyn station, and a new rail line across the Potomac River connecting DC and Virginia through Georgetown to Union Station.
- Provide more telecommuting & other commuting options – Enhance teleworking policies and access to transit and carpool subsidies. Increase the price for most work trip parking.
- Expand the express highway network -- Extend the regional network of express toll lanes, using dynamic tolling, on existing highways and add new express lanes for service. Lanes would be free to carpoolers.
- Improve walk & bike access to transit -- Enhance pedestrian and bicyclist capacity around transit stations, including Metrorail, commuter rail, light rail, and bus rapid transit (BRT).
- Complete the National Capital Trail – Complete a proposed loop of circumferential trail connections circling the core of the Washington region.

**All seven initiatives incorporate transit in some way
“Expand BRT/Transitways” and
“Move More People on Metrorail”
is particularly relevant to WMATA**



Aspirational Initiatives

Why now?

- The previous long-range transportation plan was not anticipated to provide satisfactory future performance nor move us close enough to our regional goals

Why these 7 initiatives?

- TPB Consensus - Top performing, Regional, Multimodal, and Multidiscipline
- Two year systematic examination of local jurisdictions' plans
- Selected from 100+ ideas and an analysis of 10 “bundled” initiatives
- Includes mutually supportive projects, programs and policy strategies
- Informed by findings from many past scenarios studies
- Addresses identified challenges to achieving transportation goals



TPB Aspirations For Metrorail:



1. Fully exploit available capacity – Ridership and Service (Maximize ROI)
 - Underutilized, peak period/off-peak, capacity
 - Ease of multi-modal station access
 - Station circulation and amenities
 - Service Maximized (Cost effectively complimented / Demand responsive)
2. Add capacity – strategically
 - 100 percent 8-car trains
 - Station improvement for 8-car trains
 - Infrastructure upgrades (Power, Maintenance, etc.)
3. Enhanced Capacity through operational efficiencies
4. System expansion to connect unserved activity centers



Visualize 2045 Plan:

Is Region's current:

- Investment plans for building, operating and maintaining the transportation system
- Planned projects and programs to improve transportation system's performance
- Aspirations to further improve future system performance

Is a Call to Action by the TPB to its member jurisdictions and agencies to:

Think Regionally Act Locally



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