

# Overview of *Resilience 2050*, 2024-2027 Transportation Improvement Program and the Associated Air Quality Conformity Determination

Resolution #24-1

July 25, 2023



#### **Resilience 2050: 2-Year Process**

- What are our guiding principles?
  - Goals and Strategies: <u>BRTB Res #22-6</u> (Nov 2021)
- How should we prioritize investments?
  - Project Scoring Methodology: <u>BRTB Res #22-7</u> (Nov 2021)
- What might the future bring?
  - Round 10 Socioeconomic Forecasts of Population, Households and Employment: <u>BRTB Res #23-1</u> (July 2022)
  - Chapters on regional growth, forecasting and demographic trends (<u>Chapter 2</u>) and future trends (<u>Chapter 3</u>)
- How much funding can we expect?
  - Financial Forecast: <u>BRTB Res #23-13</u> (January 2023)







#### **Resilience 2050: 2-Year Process**

- How will we measure progress?
  - Series of resolutions adopting updated federally mandated performance targets throughout
  - Detailed further in Chapter 5
- Project Submittals and Scoring; Cost Estimation
  - April through October 2022

#### Draft Preferred Alternative

- Presented to TC in January 2023 with "fiscal constraint line"
- 56 of 62 roadway projects; all 36 transit projects
- Set-aside funds for bicycle/pedestrian priority projects and other strategies improving air quality
- Analyses: Conformity, Travel Demand, Environmental Justice, Environmental Mitigation, Strategic Highway Network
  - February through April 2023

#### Public Involvement Process

- Informal comment period in CY 2022 and early CY 2023 for White papers
- Formal public comment period May 17 June 20, 2023





#### **Resilience 2050: What are we doing better?**

- Improvements to Project Scoring Methodology
- White Paper Series on LRTP Topics
- Addition of consistent methodology for forecasting local funding

Time Period	Operating (millions)	System Preservation (millions)	Expansion (millions)	Total (millions)
2028-2032	\$2,829	\$1,223	\$185	\$4,237
2033-2037	\$3,193	\$1,304	\$199	\$4,696
2038-2042	\$3,614	\$1,397	\$215	\$5,226
2043-2047	\$4,104	\$1,506	\$233	\$5,843
2048-2050	\$2,731	\$963	\$150	\$3,844
Total 2028-2050	\$16,471	\$6,393	\$982	\$23,846

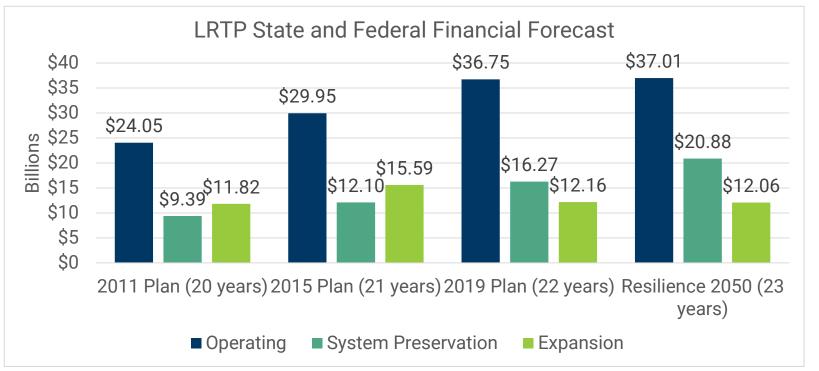


Table 6 - Technical Scoring Goals, Criteria, and Points			
Goal/Criteria	Technical Scoring Points: Transit Projects	Technical Scoring Points: Roadway Projects	
Safety*	10	10	
Accessibility – Complete Streets*	5	5	
Accessibility – Access to Jobs*	10	5	
Mobility	10	10	
Environmental – Effects on ecologically sensitive lands and culturally significant resources*	5	5	
Environmental – Potential for Greenhouse Gas Emissions Reductions	5	5	
Security*	5	5	
Economic Prosperity	5	5	
Total Technical Points	55	50	
includes points related to project impacts on EJ populat	ions		



# **Resilience 2050: Financial Trends to Consider...**

- Resilience 2050 state and federal forecast (23 years)
  - \$37.01 billion operating
  - \$20.88 billion system preservation
  - \$12.06 billion expansion (most projects compete for these funds)



- Increases for System Preservation; Decreases for Expansion
  - System preservation **increases** from 21% in 2011 LRTP to 30% in *Resilience 2050*
  - Expansion **decreases** from 26% in 2011 plan 17% in *Resilience 2050*





#### **Resilience 2050: Changes**

#### Changes: Draft to Final

- Minor corrections and updates
- Full layout file of Appendix C now complete (content had been available online in a basic word)
- Added full scope of policy and technical scores to Appendix B based on public comment (previously showed combined policy and technical scores)
- Added a description of Advanced Air Mobility and electric vertical takeoff and landing air taxis per guidance by FAA for MPOs. Included in Chapter 3 Factors and Trends





#### **Resilience 2050: Looking Forward**

- Next Steps
  - Today: Consider adoption of final LRTP
  - Next month(s): Transmit to FHWA, FTA and U.S. EPA for review and approval by federal agencies
  - Next year(s): Follow the plan: from guiding principles to specific projects
  - However..."Nothing is written..."





# **Overview of the 2024-2027 TIP**

- 143 federally-funded and regionally significant projects
  - 13 are new projects
- \$4.24 billion in proposed federal, state, local, and toll funds
  - \$2.89 billion federal; \$1.35 billion state/local
  - highway, transit, bicycle, and pedestrian projects
  - maintaining, operating and expanding the transportation system
- Projects support long-range transportation goals
  - for example: safety, prosperity and economic opportunities and environmental responsibilities
- Funding limited
  - Programmed funds cannot exceed what is reasonably expected to be available from local, state and federal sources





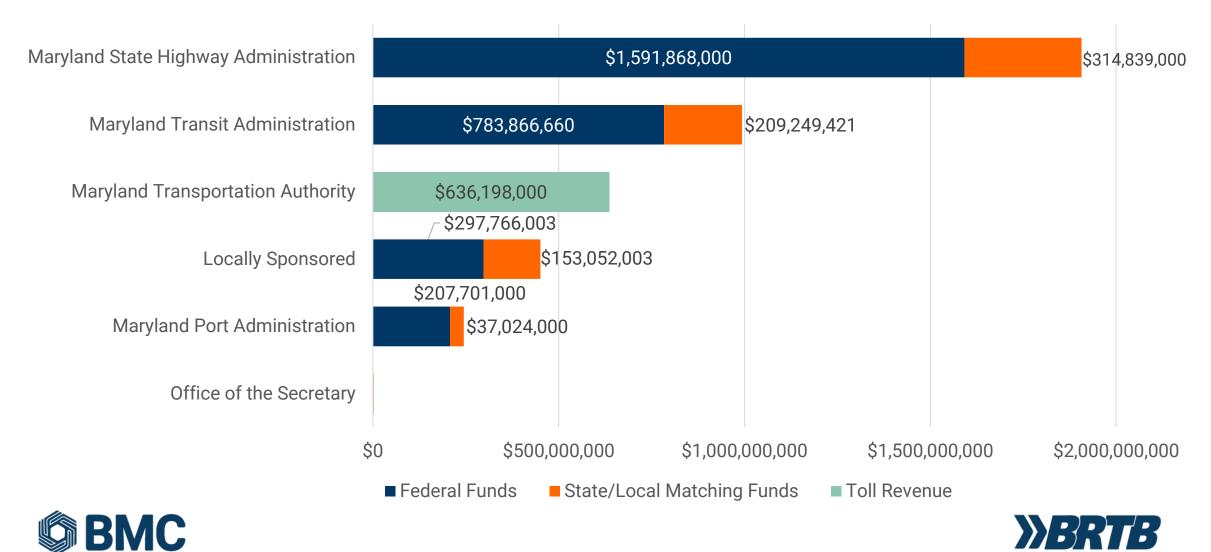


### Funding in the 2024-2027 TIP

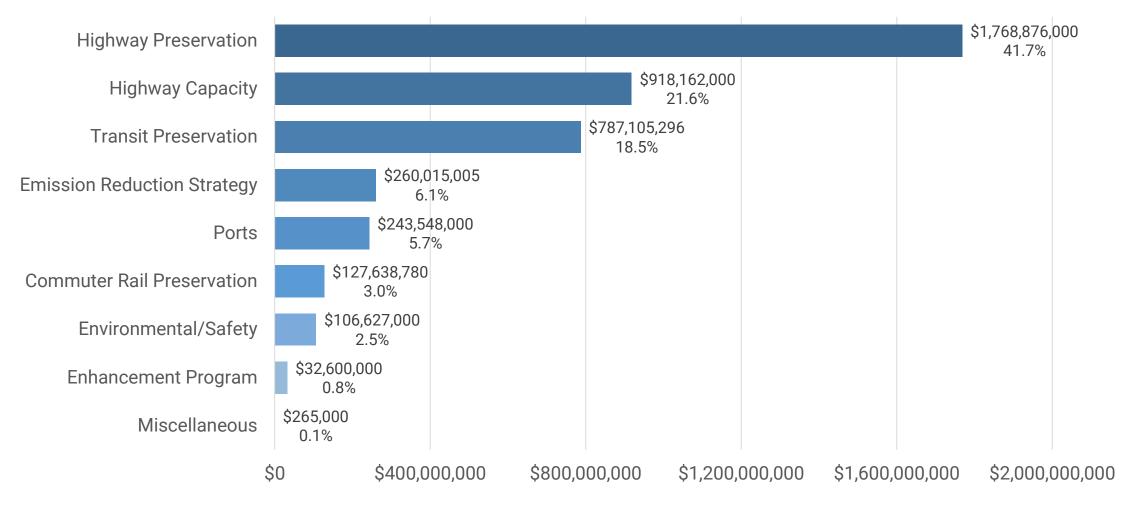




# Funding in the 2024-2027 TIP



# Funding by Category in the 2024-2027 TIP







# 2024-2027 TIP Public Involvement and MDOT MTA Program of Projects

FTA Fund Source	FY2024-FY2027 Federal		
5307C: Capital requests in urbanized areas including bus purchases, replacements and preventive maintenance	\$319,499,553	\$77,509,139	\$397,008,692
53070: Operating assistance in urbanized areas	\$9,760,000	\$14,611,000	\$24,371,000
5310: Mobility of seniors and individuals with disabilities	\$6,740,000	\$2,620,000	\$9,360,000
53110: Operating assistance in nonurbanized areas	\$952,000	\$952,000	\$1,904,000
5337: State of Good Repair funds including preventive maintenance and MARC improvements	\$225,384,150	\$58,845,287	\$284,229,437
5339F: Bus and Bus Facilities Formula funds	\$6,180,126	\$1,544,032	\$7,724,158
CMAQ: Congestion Mitigation and Air Quality	\$137,324,831	\$44,688,958	\$182,013,789
Totals	\$705,840,660	\$200,770,416	\$906,611,076



### **Performance-Based Planning and Programming in the TIP**

- Established in MAP-21; Strengthened in FAST Act
- Intent: Gauge progress relative to regionally established goals and strategies, guide future system preservation activities
- Federal Requirements: MPOs must adopt a series of 25 performance measures and targets
  - Measures and targets cover transit asset management, transit safety, highway safety, traffic congestion, on-road mobile source emissions, pavement and bridge condition, and travel time reliability
  - Performance measure: Specific metrics the region can use to assess progress towards a goal (e.g. Decrease number of highway fatalities)
  - Performance target: Specific levels to be reached (e.g. Decrease highway fatalities to 121 by 2030)
  - BRTB coordinated with the state on target selection

Project	TAM Target	Federal	Matching	Total TIP Funds
MARC Rolling Stock Overhauls and Replacement	Vehicles	\$42,302	\$10,574	\$52,876
Bus and Paratransit Vehicle Overhaul and Replacement	Vehicles	\$78,026	\$19,505	<b>\$</b> 97,531
Metro and Light Rail Rolling Stock Overhauls and Replacement	Vehicles	\$118,460	\$34,396	\$152,856

#### Table 8. 2024-2027 TIP Projects Related to Transit Asset Management





- Anne Arundel County: Multimodal Transportation Center in Parole
- Baltimore City: W. North Avenue Pedestrian Safety Improvements from Mt. Royal Avenue to Hilton Street.
- Howard County: PRG: Elkridge to Guinness Open Gate Brewery
- MDOT SHA: I-795 Dolfield Blvd. Interchange
- Maryland Port Administration: Masonville Cove Connector Shared-Use Path
- MDOT MTA: Eastern Bus Facility
- MDTA: I-95 Express Toll Lanes Northbound Extension
- Carroll and Harford County Bridges (18)





# **Air Quality Conformity**

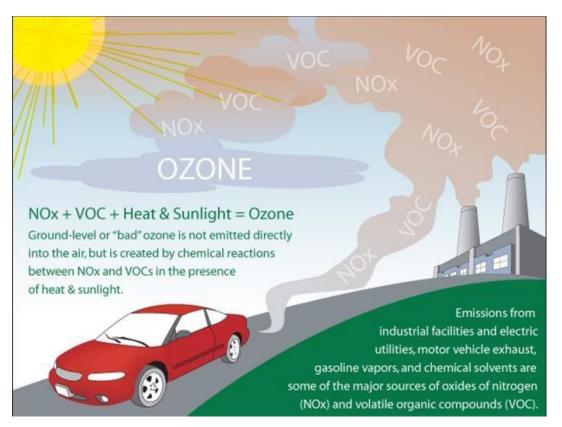
- Ensures the projects in Resilience 2050, the LRTP and 2024-2027 TIP, do not worsen air quality in the region, or delay the attainment of national ambient air quality standards (NAAQS).
- Requires that transportation emissions do not exceed motor vehicle emission budgets (MVEBs) in the state air quality implementation plan (SIP).
- Ties together transportation planning and air quality planning.







# **Air Quality Conformity**



- Currently the Baltimore region is in nonattainment for the 2015 ozone NAAQS, which is set at 70 ppb.
- Regional Emissions Analysis: Models transportation emissions of NOx and VOC's expected from on-road mobile vehicles.
- Analysis models emissions in particular horizon years assuming existing road and transit network, in addition to TIP and Plan projects.
- All modeled horizon years (2023, 2025, 2035, 2045, 2050) show emissions measuring below SIP budgets.



## **Conformity Process ICG Milestones**

- Methodology Letter (ID specific pollutants, emissions model, model run years) developed by the ICG and sent to federal agencies for review.
- Determine conformity status, either exempt/non-exempt/regionally significant for LRTP and TIP (project-by-project)
- BMC and MDE run EPA-developed emissions model. MDE supplies the official results.
- ICG approves regional emissions analysis results for public review.
- After the public comment period for *Resilience 2050* takes place staff and members review comments.
- The ICG/TC voted to recommend approval of the conformity document



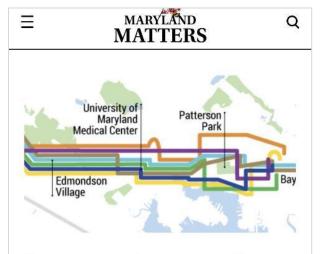


#### **Public Comment Period: Advertisement**

- Comment Period: May 17 June 20, 2023
- Promotion across 13 print, radio and digital outlets
  - Digital: Minimum of 166,000 impressions
  - All outlets: Potential reach of 1 million impressions through paid promotion
  - Additional impressions through social media
- Earned media in WBAL, WYPR, Maryland Matters and other outlets



How's your highway commute? Or – does your bus arrive on time? Is there enough room? The Baltimore Regional Transportation Board has a new plan called 'Resilience 2050: Adapting to the Challenges of Tomorrow,' and wants to know what users think about it. We talk with



Long-range plan contemplates nearly \$4 billion for Baltimore region transit corridors

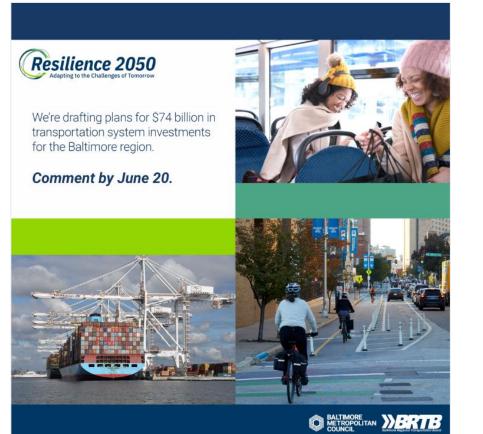




### **Public Comment Period: Public Meetings and Materials**

- Online project hub (publicinput.com) with summaries, pre-recorded presentation, StoryMap, interactive mapping, full draft documents and ways to comment
- One virtual meeting and 7 in person public meetings
- 100+ Comments from individuals and organizations









## **Public Comment Period: Main Themes and Responses**

#### • Main themes from comments:

- Negative sentiment towards scale of roadway expansion in the preferred alternative, both number of projects and amount of expenditures
- Concerned with implications of roadway expenditures for:
  - o climate change
  - $\circ\,$  land use and sprawl
  - $_{\circ}\,$  air quality and public health
- Positive sentiment toward more transit expansion and increased transit reliability
- Positive sentiment towards bicycle and pedestrian infrastructure
- Responding to Comments
  - All comments shared with TC/BRTB/ICG; staff coordination with committees on responses
  - Responses online at <u>www.resilience2050.com</u>





#### **For More Information**

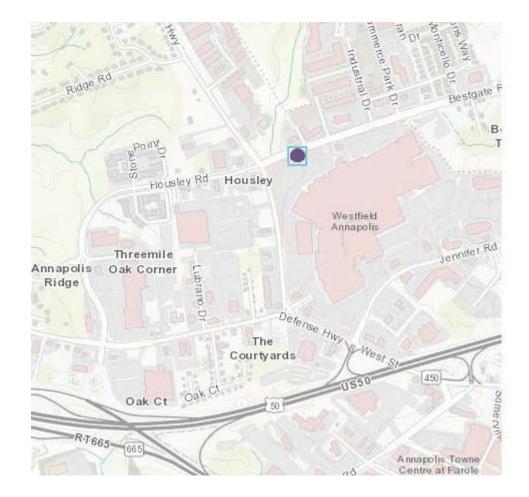
Zach Kaufman | Senior Transportation Planner (LRTP) 410-732-0500 x1048 | zkaufman@baltometro.org | www.baltometro.org
Keith Kucharek | Senior Transportation Planner (TIP) 410-732-0500 x1052 | kkucharek@baltometro.org | www.baltometro.org
Anna Marshall | Environmental Planner (AQ) 410-732-0500 x1050 | amarshall@baltometro.org | www.baltometro.org



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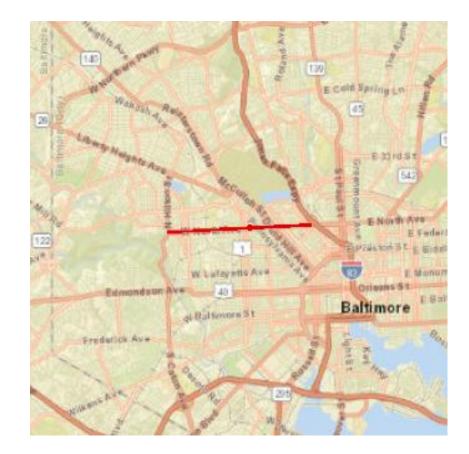
- Anne Arundel County: Multi-modal Transportation Center in Parole
  - Will serve existing local and regional bus service, with possible future connectivity to modes such as bikeshare, carshare, and ridehailing services
  - Location at the Westfield Annapolis Mall
  - TIP Funding: \$15.5 million in local funds
  - Year of Operation: 2025







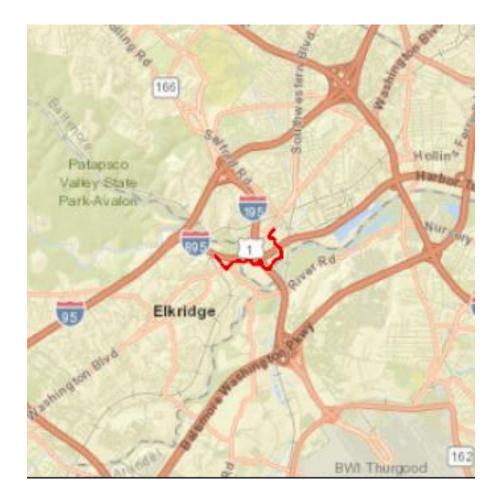
- Baltimore City: W. North Ave. Pedestrian Safety Improvements from Mt. Royal Ave. to Hilton St.
  - 2.6 mile from Mt. Royal Ave to Hilton St.
  - Reconstructs sidewalks, driveways, curb & Gutter, ped signals, crosswalks and lighting
  - Drainage improvements and landscaping
  - Project will make this roadway ADA Compliant
  - Year of Operation: 2030
  - TIP Funding: \$1 million (\$11 million Total







- Howard County: PRG: Elkridge to Guinness Open Gate Brewery
  - Adds 1.5 mile 10-foot wide shared-use path
  - Part of the overall 40 mile PRG
  - TIP Funding: \$1.9 million
  - \$1.25 Howard County grant and \$500,000 from Baltimore County for engineering
  - Year of Operation: 2026







#### MDOT SHA: I-795 Dolfield Blvd. Interchange

- Includes widening of I-795 from Owings Mills Blvd. to Franklin Blvd.
- Includes TSMO Strategies
- Will improve access to the planned growth corridor along Red Run Blvd.
- \$24 million programmed (\$149 Million total)
- Year of Operation: 2031







- Maryland Port Administration: Masonville Cove Connector Shared-Use Path
  - 2 mile trail along Frankfurst Ave. between Masonville Cove and Hanover Street
  - Using Fed. Lands Access Program funding (FLAP)
  - Matching funds from US Fish and Wildlife
  - Links to existing Gwynns Falls Trail
  - Connects over 20 miles of existing trails
  - Year of Operation: 2025

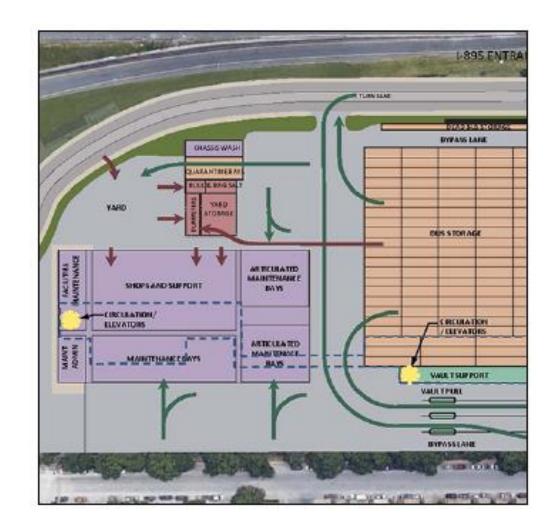






#### MDOT MTA: Eastern Bus Facility

- Upgrades existing facility to an electric bus division
- 1,100 SF combined maintenance, washing, fueling and bus operations space
- Parking for 190 buses and 216 employees
- The Greenhouse Gas Reduction Act requires MTA's vehicles to be zero emission by 2030
- \$86.3 million funded in TIP (\$162.3 Total)
- Anticipated completion 2026







- Maryland Transportation Authority: I-95
   Northbound Extension
  - Two ETLs from north of MD 43 to north of MD 24 (11.25 miles)
  - Reconstruction of MD 152 and MD 24 interchanges
  - Widening MD 24 from two to three lanes from MD 924 to north of Singer Road (~1 mile)
  - Reconstruction of 5 overpasses over I-95
  - Construction of 5 noisewalls
  - Reconstruction of 5 overpasses
  - TIP Funding: \$542.2 million in MDTA Toll Revenues
  - Year of Operation: 2027





