

MARYLAND TRANSIT ADMINISTRATION

MTA Light Rail Modernization Program

Transit Choices

June 5, 2025



WELCOME ABOARD

Agenda

- Light Rail Modernization Program Overview
 - Why Modernize the Light Rail System?
 - What LRMP Includes
- Overall Benefits
 - Improved Frequency and Reliability
 - Improved Accessibility and Safety
 - Faster Travel Time
- Schedule
- Next Steps



Why Modernize the Light Rail System?

The current Light Rail operation has not been modernized since the initial construction and subsequent expansion of the original system.

Passengers are currently experiencing:

- Long headways when vehicles are out of service for maintenance due to aging vehicle needs or emergency repairs after crashes
- Long station dwell times due to stairs, ramp deployments, and the lack of convenient accessibility with the current system
- Long signal delays due to Light Rail signal system and Baltimore City traffic pattern and signal optimization needs

APYI AND DEPARTMEN



Light Rail Modernization Program Overview

The need to upgrade MTA's current light rail vehicles is **an opportunity to improve the system** that is only presented once every several decades.

 Light Rail Modernization Program (LRMP) is a \$1.3 billion program of investments in light rail vehicles, signal systems, stations, track, and maintenance facilities for Baltimore's Central Light Rail line.

The 2025 Moore-Miller transportation budget provides **additional revenue that fully funds this program**





What LRMP Includes

- Replacing 52 vehicles with fully accessible modern low floor vehicles
- Upgrading signal and train contr ol system along the Light Rail track, as well as traction power
- Upgrading maintenance facilities to support new vehicles



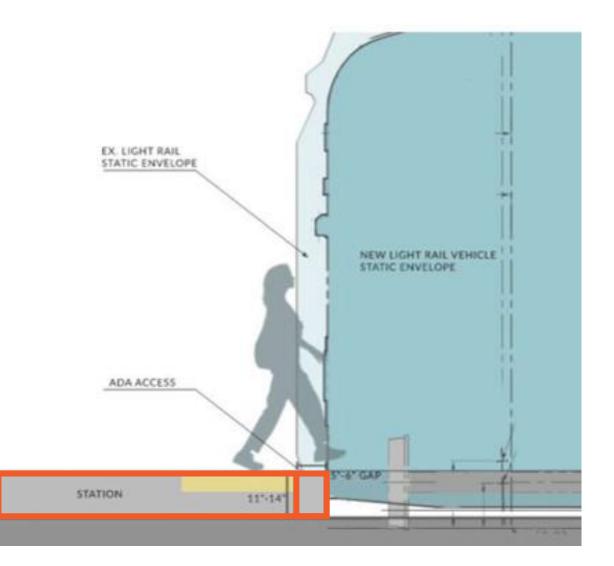


What LRMP Includes

• Upgrading 33 stations

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- Reconstructing platforms for accessibility with new vehicles
- Removing boarding "high blocks" currently required for accessible boarding
- Upgrading power and communications for modern technology features
- Upgrading amenities supporting rider comfort and safety at some stations
- Replacing light rail track in the CBD



Overall Benefits

- Improved accessibility
- Increased frequency and reliability
- Faster boarding and travel times
- System safety through traffic operations changes
- Enhanced security at transit stations
- Refreshed and modern station design features





Accessibility and Decreased Dwell Time

- Low floor/all door boarding vehicles enable shorter dwell times and have safety and accessibility benefits
- Boarding and alighting is more efficient when all doors are available to load and unload passengers
- Low floor vehicles eliminate delay of passengers climbing/descending stairs inside vehicle and operators deploying ramps

Shorter station dwell times could **save 7-8 minutes** along the full system.



Source: RTD Denver - https://www.rtd-denver.com/how-toride/accessibility

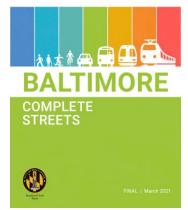


Decreased Signal Delay and Improved Safety

- Signal delay along Howard St. accounts for 28% of total travel time from Camden Station to Mount Royal or 3-5 minutes waiting at signals after vehicles already waited at stations
- Removing left turn movements, and optimizing signal operations for transit could provide 1-2 minutes of travel time savings along Howard St. alone
- Removing left turns across the tracks would also have safety benefits for trains, drivers, and people walking or rolling

MTA is working with BCDOT to look for **traffic and** signal optimization opportunities.

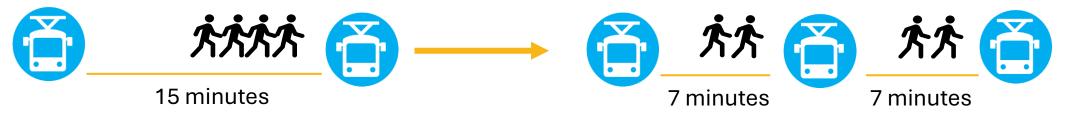






Improved Frequency and Reliability

- Increased vehicle availability and system upgrades will support 7-minute headways
 instead of the current 15-minute
- 7-minute headways will save approximately **3-4 minutes of travel time** per passenger
- The project will also reduce maintenance-related service cuts, increasing reliability Today
 Light Rail Modernization

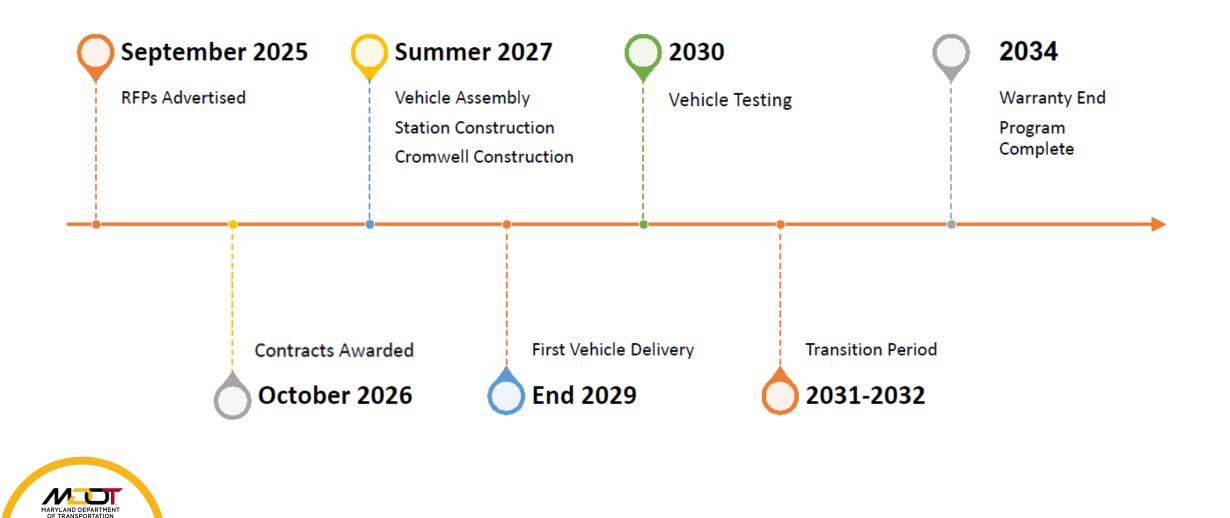


"Long wait times and unreliable travel times of public transportation services are the **two most important factors** that negatively affect transit users' confidence in public transportation and ridership rate."



Anticipated Schedule: Vehicles

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Station Construction

Phase 1	2028		2029				2030	
	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring
Station Retrofit								
CBD Station Retrofit								

Phase 2	2032/33			
Phase Z	Winter	Spring		
High Block Removal				

MTA will work with BCDOT and the Progressive Design Builder to **meet schedule and reduce service disruption** during construction.





Next Steps

- This Year
 - Develop performance requirements for all program elements and initiate procurements for all contracts
 - Work with BCDOT, counties, and key stakeholders on potential traffic, signal and roadway changes
- Next Year
 - Select contractors to design and deliver modernization program
 - Refine scope and project approval procedures

Station design will occur in 2027 by the Progressive Design Builder. Before then, our focus is **readiness for a swift and efficient design process.**



Feedback and Discussion

- Are there aspects of the current light rail stations or vehicles you would like us to preserve?
- What potential features in the new vehicles, stations and service are most important to you as a rider?
- Any other questions or feedback?

