













Cornerstone Plan 2019

TPB Technical Committee
November 1, 2019
Item 7



MDOT MTA Cornerstones



Safety

Provide a safe and secure environment for every customer and employee. Ensure the transportation system is resilient to natural and man-made hazards.



Preserve existing assets and maximize the efficient use of resources and infrastructure.



Reliability

Deliver a reliable, frequent, convenient, and easy to use transit service for customers.



World Class Customer Service

Improve communication and responsiveness with MDOT MTA customers and stakeholders in an effective and professional manner.

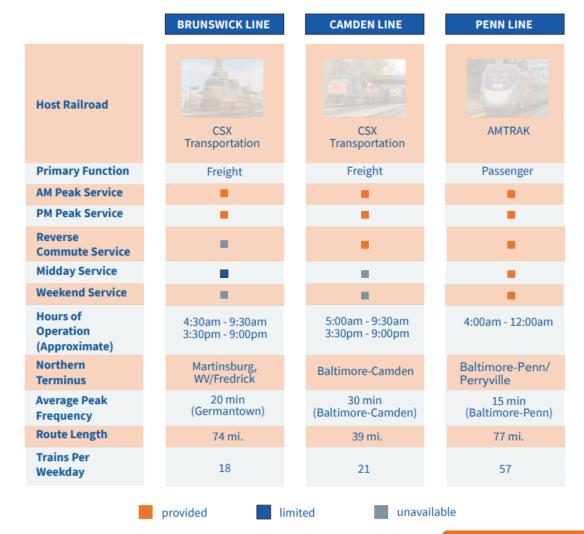


MARC Train Service Area

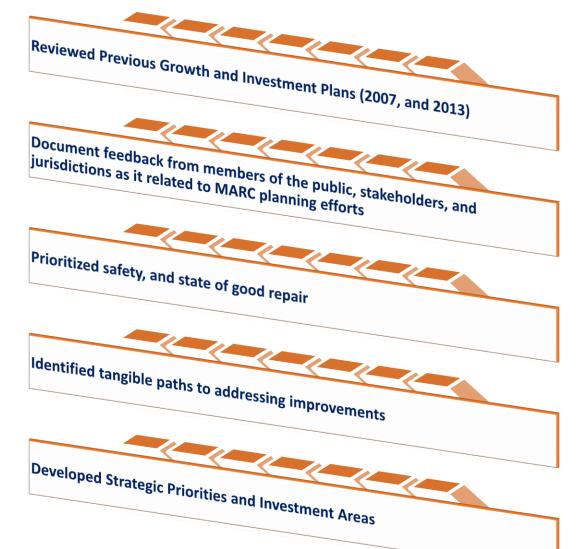


- Mileage 202 mi
- Stations 42
- Railcars 177
- Locomotives 46

MARC Train Service Profile



Development of the Cornerstone Plan



- The 2019 Cornerstone Plan attempts to combine the strengths of the 2007, and 2013 MGIPs
- Listened to questions and comments from riders, jurisdictions, and agencies
- Attempt to illustrate the link between improvements in service and critical infrastructure needs

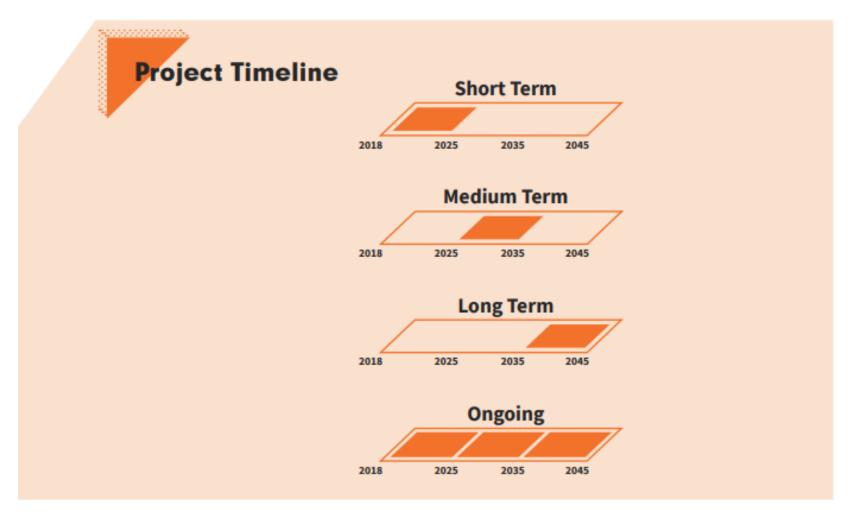
One of Five Modal Cornerstone Plans



Three general guidelines for Cornerstone Plan development:

- Frame around MDOT MTA Cornerstones
- Consistency with other modal Cornerstone plans
- Practical Design

Cornerstone Plan Timeline



Investment Areas

Investment Areas	Timeframe	Initiative		
Vehicles		GP39H-2 Locomotive Mid-Life Overhaul		
	Short Term	MP36PH-3C Mid-Life Overhaul		
		MARC III Railcar Overhaul		
	Medium Term	MARC IV Railcar Overhaul		
	Long Term	Railcar Fleet Replacement		
		Locomotive Fleet Replacement		
	Ongoing	Non-Revenue Vehicles		
Stations		Camden Station Replacement		
	Short Term	BWI Station Improvements		
		New Carrollton Second Platform		
	Medium Term	Penn Station Transit Oriented Development		
	Long Term	West Baltimore Station		
	Onning	Improve Station Access		
		Brunswick Line Station Renovations		
		Camden Line Station Renovations		
		Penn Line Station Renovations		
	Ongoing	Eliminate At-Grade Pedestrian Crossings		
		Laurel Transit Oriented Development		
		Dorsey Transit Oriented Development		
		Monocacy Transit Oriented Development		
		Germantown Transit Oriented Development		
	Medium Term	Penn-Camden Connector		
Guideways	Medium Term			
	Ongoing	Passenger Rail Investment and Improvement Act (PRIIA) - Penn Line		
		CSX Joint Benefits - Brunswick and Camden Lines		
		Frederick Branch		

Investment Areas	Timeframe	Initiative	
Facilities	Short Term	Riverside Heavy Maintenance Building	
		Martin's Yard Expansion	
	Medium Term	Replacement Penn Line Storage Yard	
	Long Term	Brunswick Yard Maintenance Facility	
Systems	Short Term	Positive Train Control (PTC)	
		Real-Time MARC Tracking	
	Medium Term	Train Approaching Warning System	
	Long Term	Closed Circuit Television (CCTV)	
Service	Ongoing	Run-Through Service to L'Enfant Plaza and N. Virginia	
		Brunswick Line	
		Camden Line	
		Penn Line	

Facilities: Storage & Maintenance

STORAGE & MAINTENANCE FACILITY	OVERNIGHT CAPACITY	MAINTENANCE (FULL/PARTIAL)	LOCATION
PENN STATION		PARTIAL	BALTIMORE, MD
MARTIN'S YARD	4	PARTIAL	RIVER RIVER, MD
RIVERSIDE YARD		FULL	BALTIMORE, MD
BRUNSWICK YARD		PARTIAL	BRUNSWICK, MD
FREDERICK YARD		PARTIAL	FREDERICK, MD
MARTINSBURG YARD		PARTIAL	WASHINGTON, D.C.

The Availability and Size of Storage and Maintenance Facilities Affect MARC Train's Ability to:

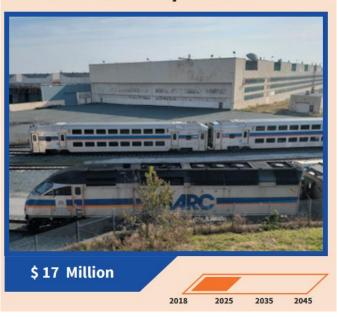
- Manage crowded trains
- Inspect and maintain vehicles
- Make critical repairs

DDD UNOCCUPIED

- Minimize the cancellation of trains due to mechanical failures
- Provide additional service as needed (Assuming the equipment is available)

Facilities: Storage & Maintenance

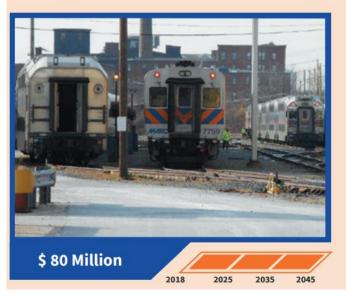
Martin's Yard Expansion



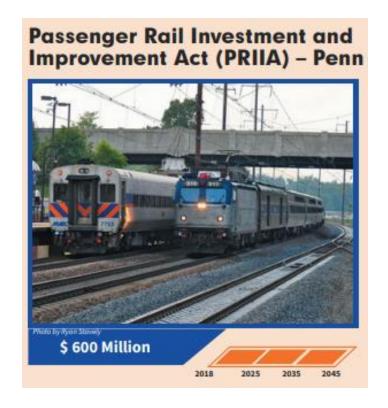
Replacement Penn Line Storage Yard

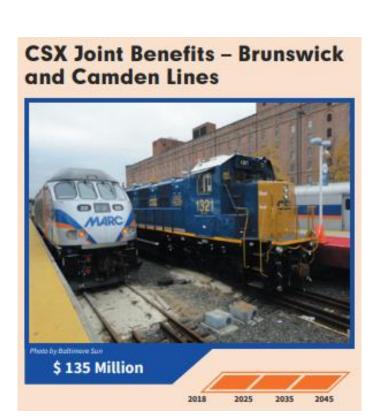


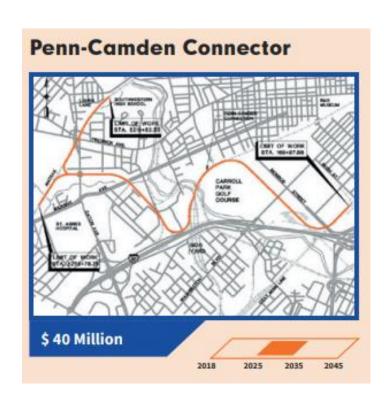
Riverside Yard Acquisition and Heavy Maintenance Building



Guideways

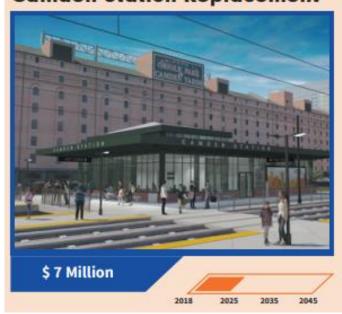






Stations: Replacements

Camden Station Replacement



BWI Station Improvements



West Baltimore Station \$ 58 Million 2018 2025 2035 2045

Stations: Enhancements

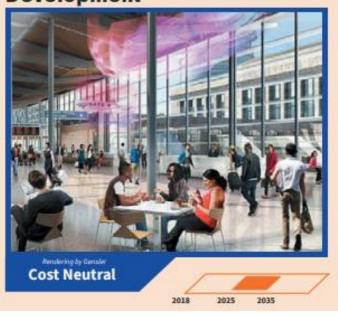




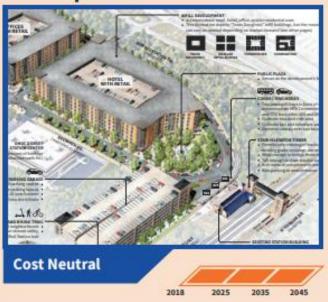


Transit-Oriented Development

Penn Station Transit Oriented Development

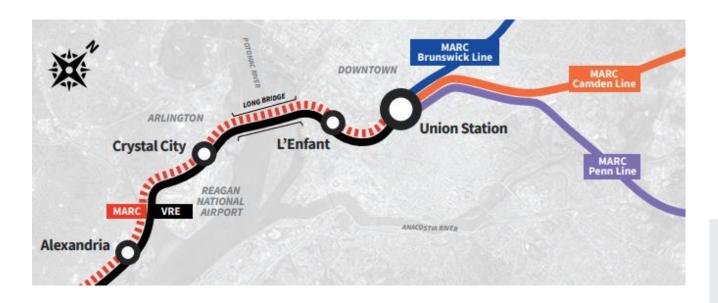


Dorsey Transit Oriented Development



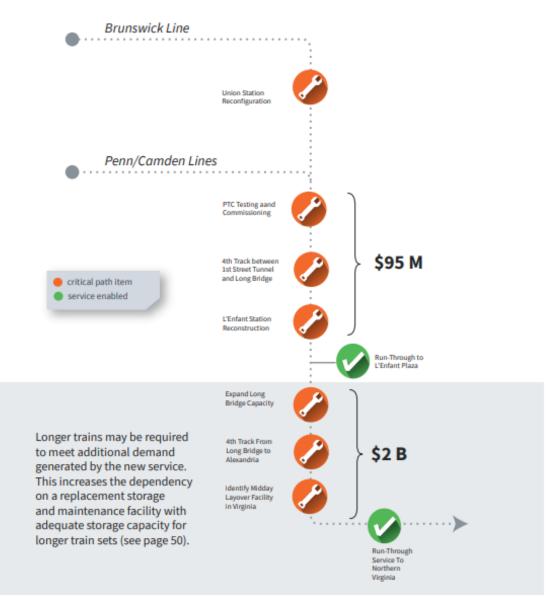
Germantown Transit Oriented Development No. 1867 Telephone 1.1 MEANING TO 1.1 ME

Service: Run-through to L'Enfant Plaza and Northern Virginia

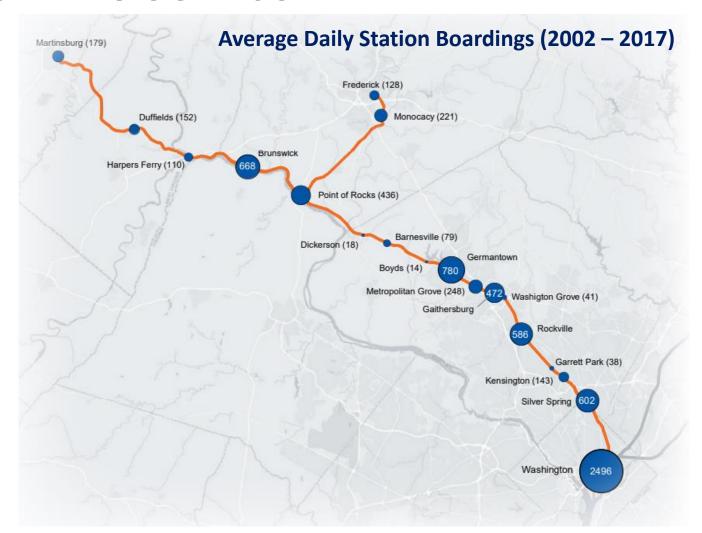


VIRGINIA RUN-THROUGH

This illustrates the various types of capital investments necessary for run-through service to Northern Virginia. These improvements would require partnerships with multiple stakeholders including District Department of Transportation, Virginia Railway Express, Amtrak, and CSX.

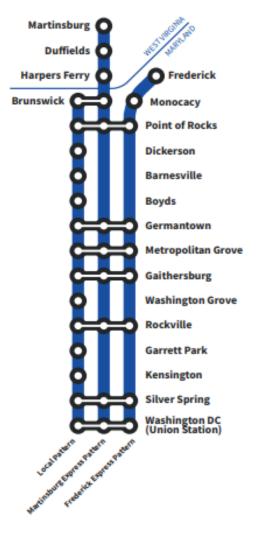


Brunswick Line Service



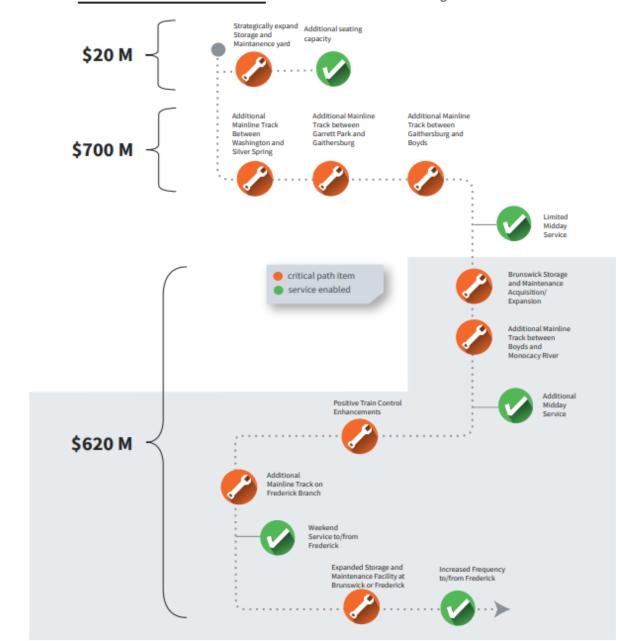
Service: Brunswick Line

POTENTIAL FUTURE BRUNSWICK LINE SERVICE

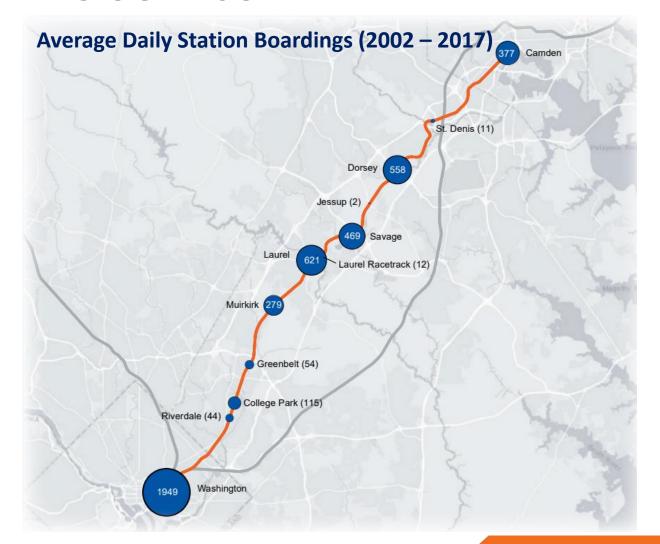


BRUNSWICK LINE

This illustrates the various types of capital investments necessary for increased service on the Brunswick Line. These improvements would require partnerships with multiple stakeholders including CSX.



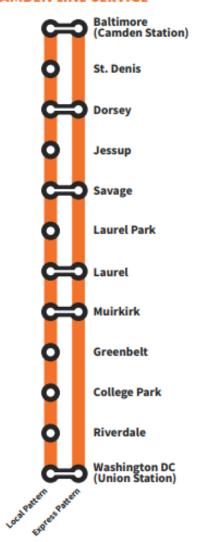
Camden Line Service





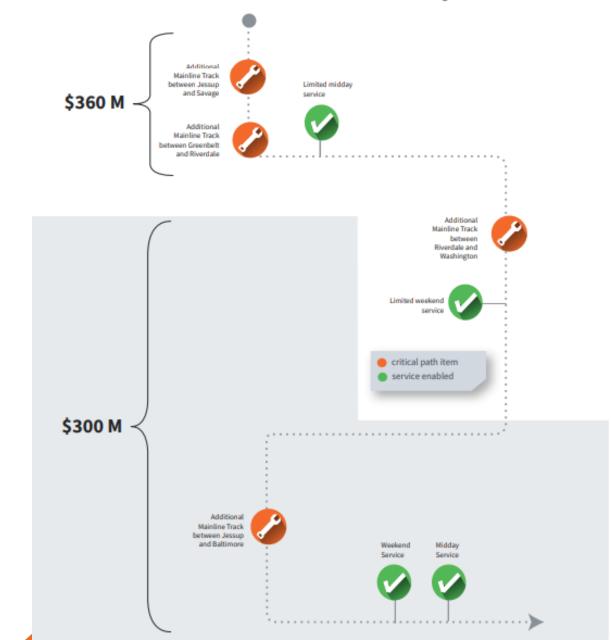
Service: Camden Line

POTENTIAL FUTURE CAMDEN LINE SERVICE





This illustrates the various types of capital investments necessary for increased service on the Camden Line. These improvements would require partnerships with multiple stakeholders including CSX.



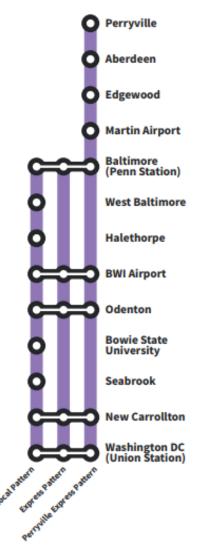
Penn Line Service





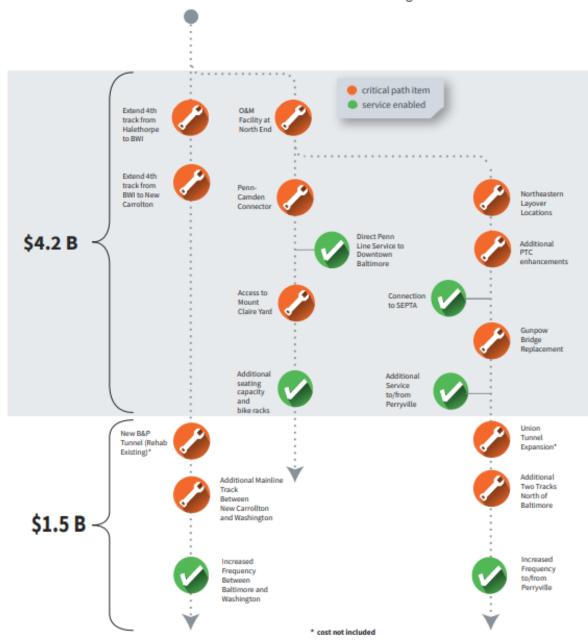
Service: Penn Line

POTENTIAL FUTURE PENN LINE SERVICE





This illustrates the various types of capital investments necessary for increased service on the Penn Line. These improvements would require partnerships with multiple stakeholders including Amtrak.



Thank You! Questions?

Contact Information

Kyle Nembhard

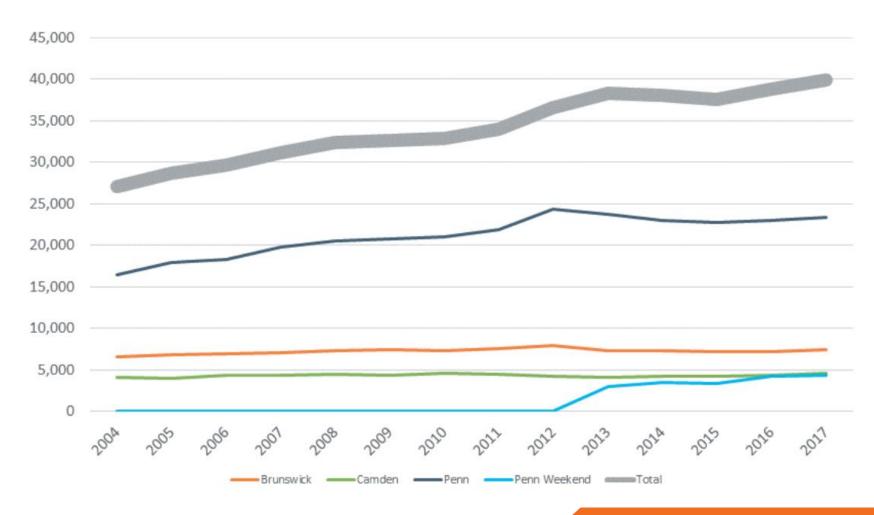
MDOT MTA MARC Train

Long Range Strategic Planning

Phone: 410-767-3752

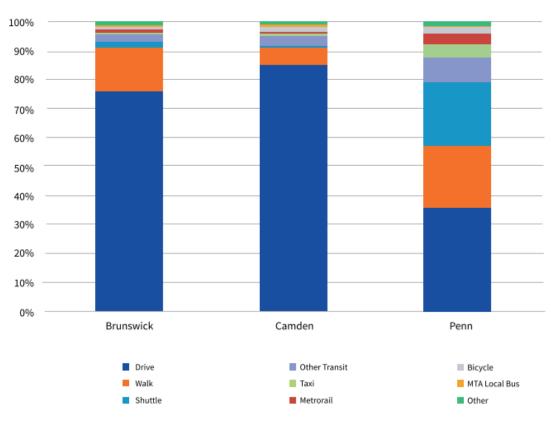
Email: knembhard@mta.maryland.gov

MARC Train Average Daily Ridership (2002 – 2017)



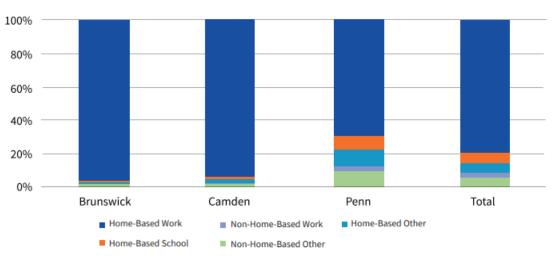
MARC Train Rider Profile

MARC Station Access from Home



2016 MARC Origin Destination Survey

Trip Purpose



2016 MARC Origin Destination Survey