











MARC

Cornerstone Plan 2019



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.



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.

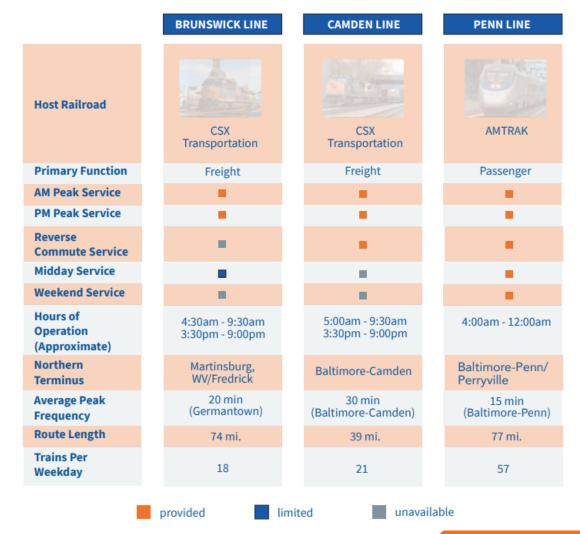


MARC Train Service Area

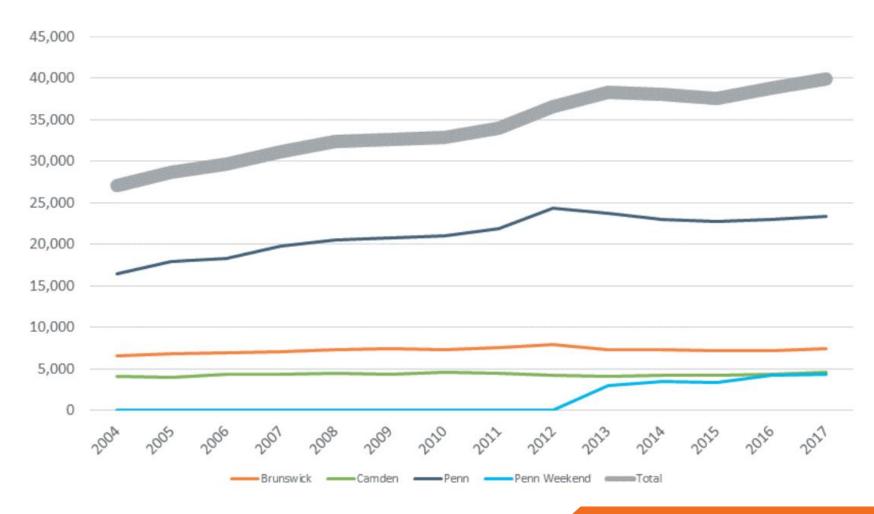


- Mileage 202 mi
- Stations 42
- Railcars 177
- Locomotives 46

MARC Train Service Profile

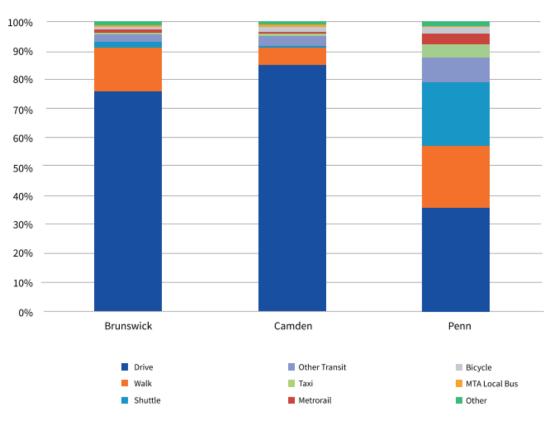


MARC Train Average Daily Ridership (2002 – 2017)



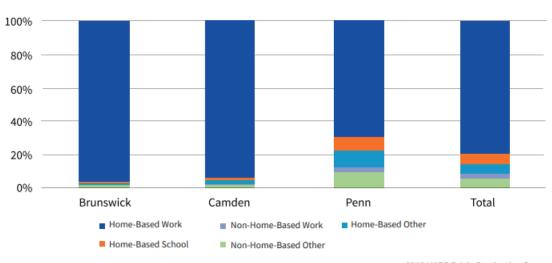
MARC Train Rider Profile

MARC Station Access from Home



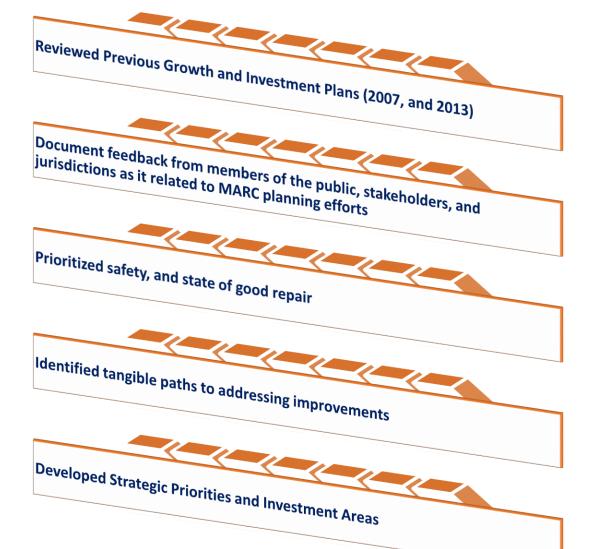
2016 MARC Origin Destination Survey

Trip Purpose



2016 MARC Origin Destination Survey

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:

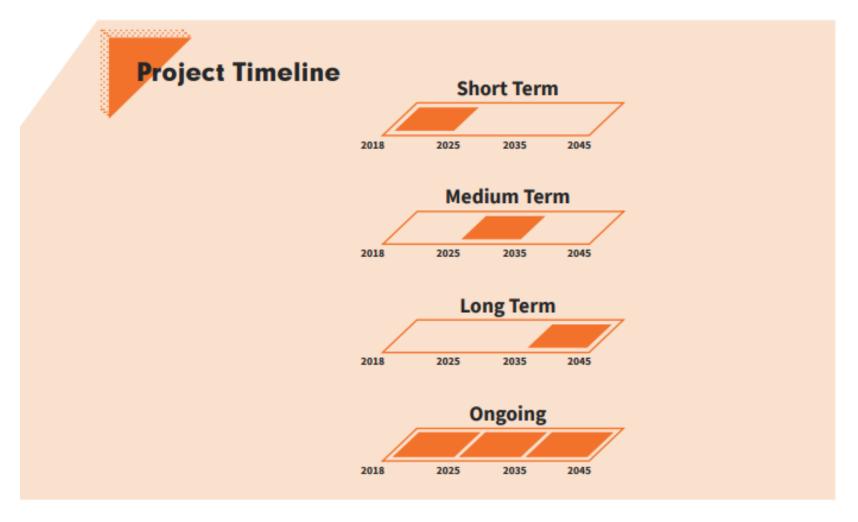
- Frame around MDOT MTA Cornerstones
- Consistency with other modal Cornerstone plans
- Practical Design

Investment Areas

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

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

Cornerstone Plan Timeline



Vehicles: Locomotives

GP39H-2 LocomotiveMid-Life Overhaul







Stations: Replacements

Camden Station Replacement



BWI Station Improvements



West Baltimore Station



Stations: Enhancements

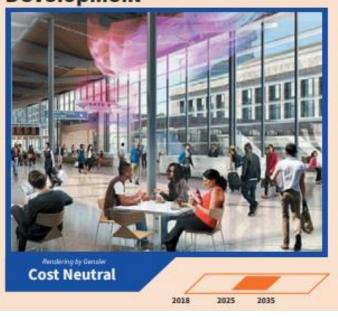




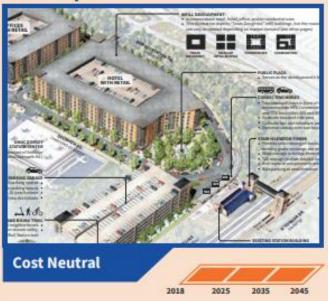


Transit-Oriented Development

Penn Station Transit Oriented Development

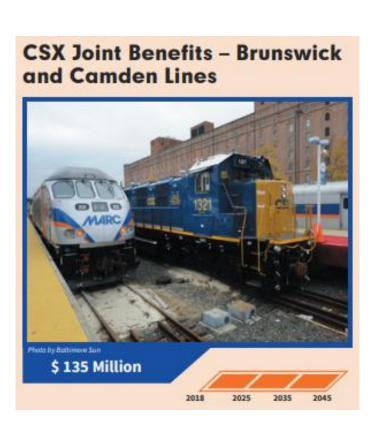


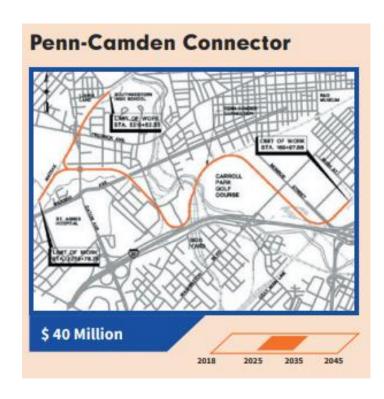
Dorsey Transit Oriented Development



Guideways







Facilities: Storage & Maintenance

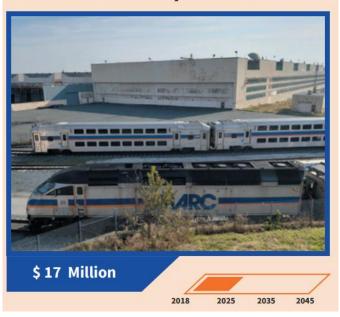
STORAGE & MAINTENANCE FACILITY	OVERNIGHT CAPACITY	MAINTENANCE (FULL/PARTIAL)	LOCATION				
PENN STATION		PARTIAL	BALTIMORE, MD				
MARTIN'S YARD	4	PARTIAL	RIVER RIVER, MD				
RIVERSIDE YARD		FULL	BALTIMORE, MD				
BRUNSWICK YARD		PARTIAL	BRUNSWICK, MD				
FREDERICK YARD		PARTIAL	FREDERICK, MD				
MARTINSBURG 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
- Minimize the cancellation of trains due to mechanical failures
- Provide additional service as needed (Assuming the equipment is available)

Facilities: Storage & Maintenance

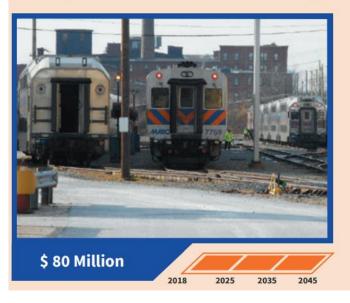
Martin's Yard Expansion



Replacement Penn Line Storage Yard



Riverside Yard Acquisition and Heavy Maintenance Building



Systems



Real-Time MARC Tracking

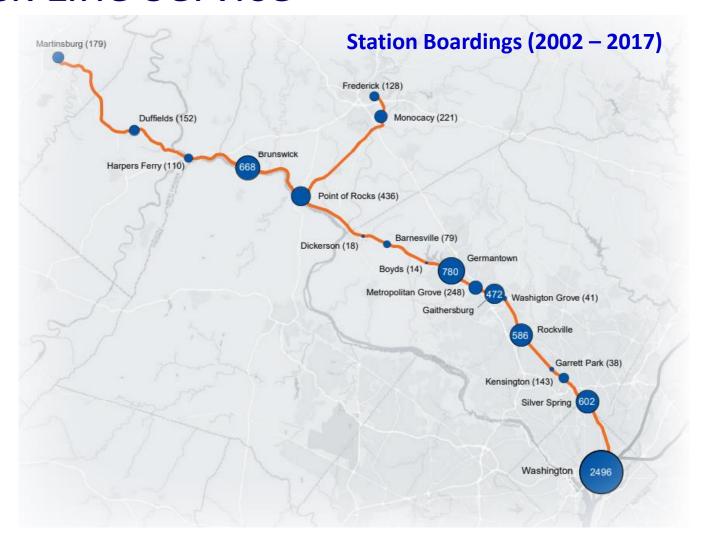


Closed Circuit Television (CCTV) \$ 10 Million

Train Approaching Warning System

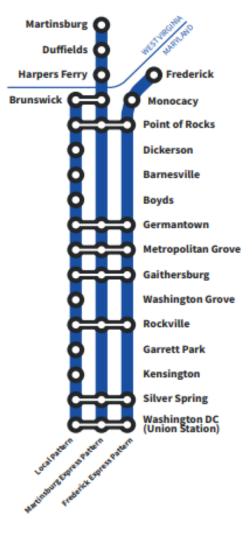


Brunswick Line Service



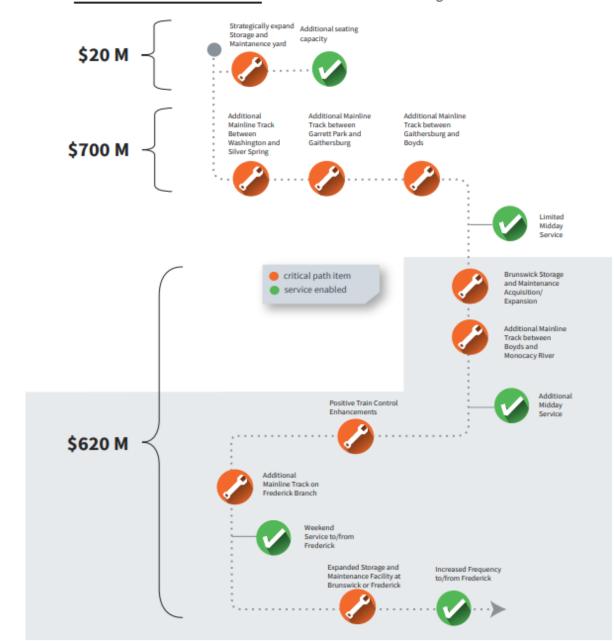
Service: Brunswick Line

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.



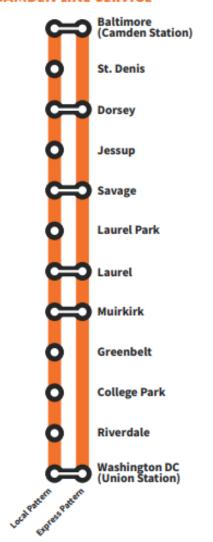
Camden Line Service





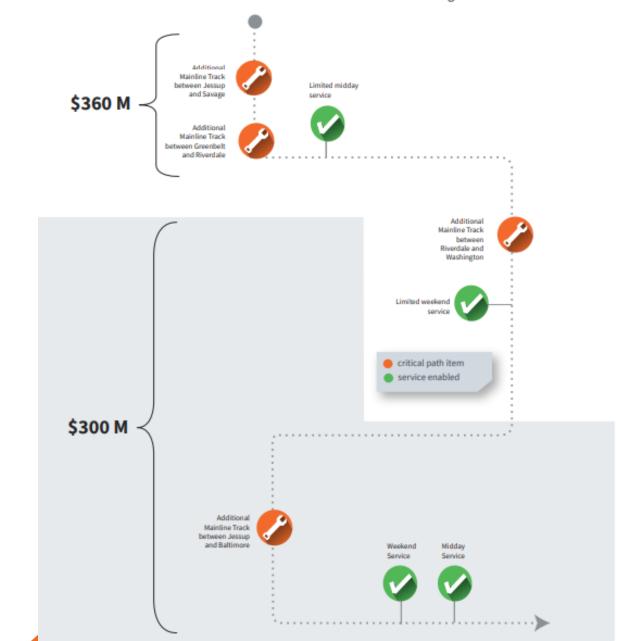
Service: Camden Line

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.



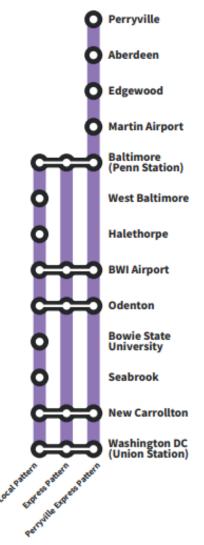
Penn Line Service





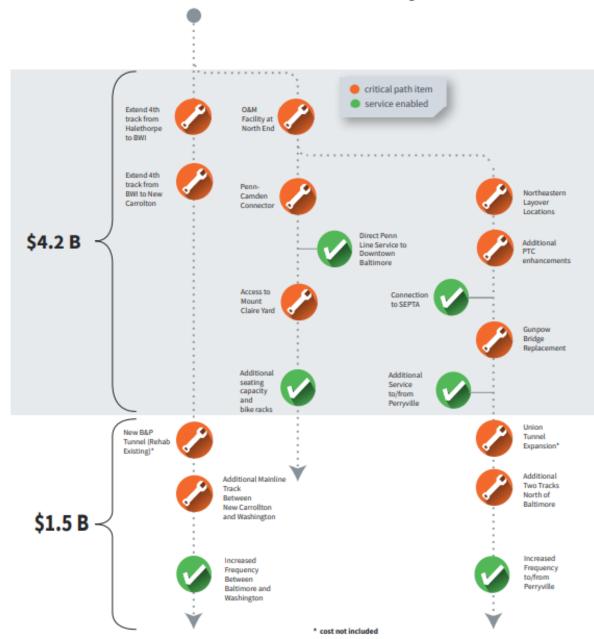
Service: Penn Line

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.

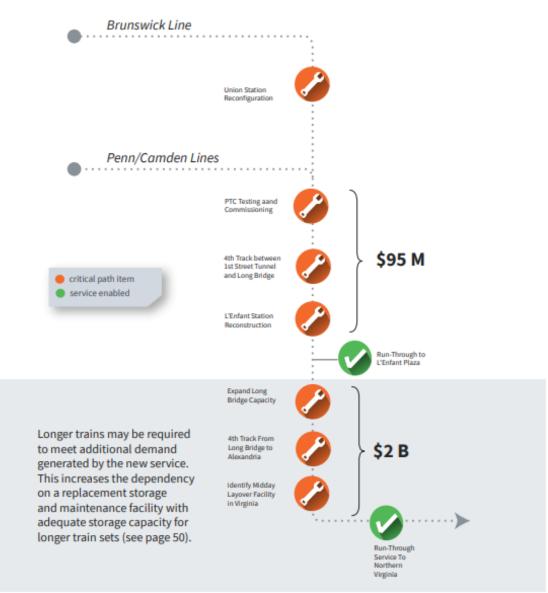


Service: Run-through to L'Enfant Plaza and Northern Virginia



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.



Thank You! Questions?

Contact Information

Kyle Nembhard

MDOT MTA MARC Train

Long Range Strategic Planning

Phone: 410-767-3752

Email: knembhard@mta.maryland.gov