



Red Line and Orange Line Transformation Update

Angel Peña, Chief of Capital Transformation September 29, 2022

Capital Transformation | A Holistic Approach

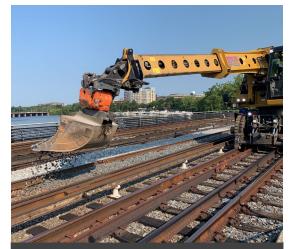


Our transformation program uses an activist management approach to holistically deliver a portfolio of projects that will measurably improve the quality of service for riders. We achieve this by finding synergy and efficiency through strategic sequencing of activities, amplifying the impact of construction windows.



Levels of Transformation



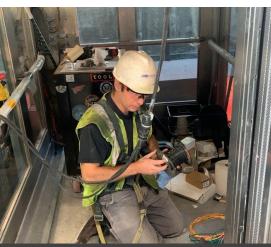


Level 0



Improved Safety and State of Good Repair

Safety begins with making sure assets and infrastructure are brought to a state of good repair and kept in that condition while reducing the risk of major disruptions



Level 1



Accessibility means creating an experience that all riders can equally enjoy, which includes making sure the stations and vehicles are ADA-compliant, equitable, and fully accessible.



Level 2



Replacement of Legacy Fleets

This includes the design and procurement of new vehicles and the infrastructure needed to support them



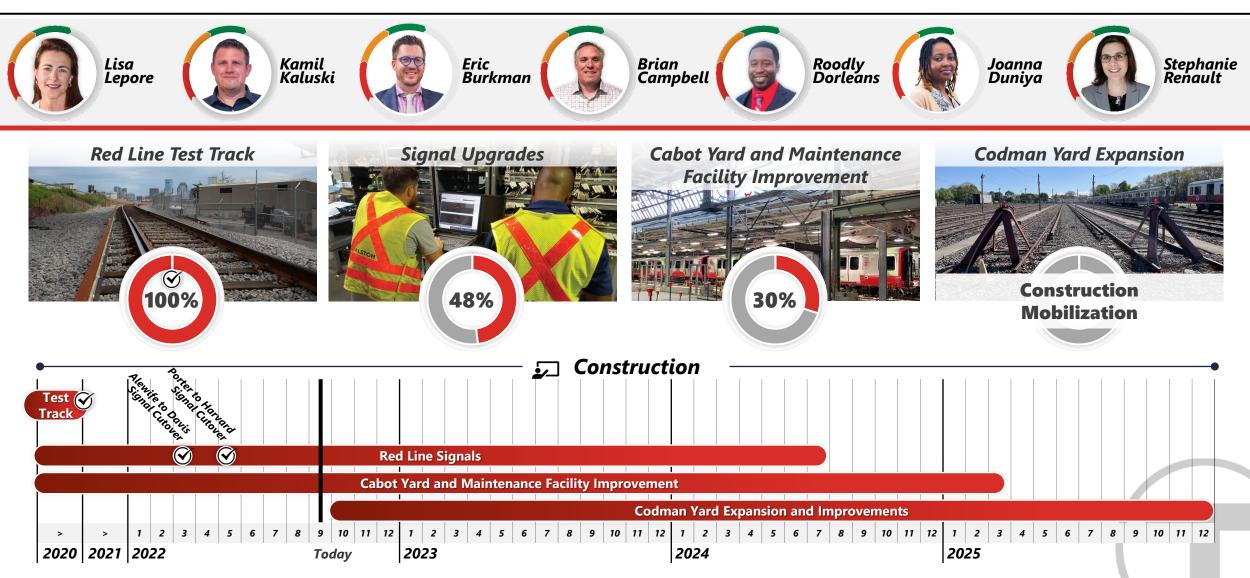
Level 3



Increased Passenger Capacity

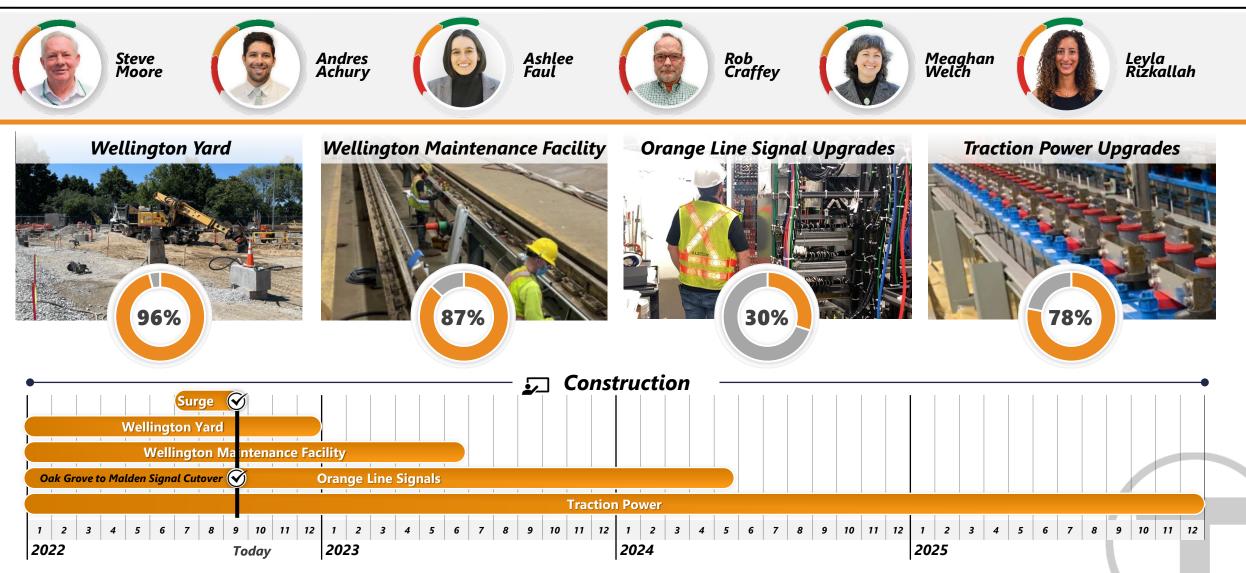
Increasing capacity to meet future ridership requires implementing systems to provide the reliable service our riders deserve

Red Line Transformation



Orange Line Transformation

TOLT >>



Draft for Discussion & Policy Purposes Only

Orange Line Surge | by the Numbers

The entire Orange Line was closed at 9 PM on Friday, Aug. 19, 2022, to the start of service Monday, Sept. 19, 2022. The MBTA was able to complete a series of essential infrastructure projects.



Orange Line Surge | Lessons Learned



Daily coordination and collaboration across many MBTA departments ensured transparency and allowed for quick and effective responses to challenges

Departments puts safety, quality assurance, and quality

control first in order to reliably deliver work



Documents including the Surge Management Plan, Surge Playbook, and Reactivation Guide kept activities on track

Transparency and trust with internal and external stakeholders, and encouraged accountability by clearly recording and reporting progress

Next Steps | Levels of Transformation

Delivery	Planning	Vision
 Improved Safety and State of Good Repair Orange Line Surge Traction Power <i>Increased Passenger Capacity</i> Wellington Yard Wellington Maintenance Facilities Orange Line Signals 	 Improved Safety and State of Good Repair Orange Line SCADA Southwest Corridor Right of Way Upgrades Orange Line Maintenance Work Future Transformation Projects <i>Increased Passenger Capacity</i> Future Transformation Projects 	
 Improved Safety and State of Good Repair Red Line Signals Traction Power Increased Passenger Capacity Codman Yard Expansion and Improvements Cabot Yard and Maintenance Facility Improvement 	 Improved Safety and State of Good Repair Trackwork (Alewife Crossover, Floating Slabs) Braintree Line Right of Way Renewal Red Line Core Right of Way Renewal Future Transformation Projects Increased Passenger Capacity Ashmont Future Transformation Projects 	<image/>

Supporting Transformation



MBTA Capital Funding

- Understanding current needs
- Preparing capital requests
- Participating in CIP process

Other Funding Programs

- Federal programs
- State programs
- Other funding

Transformation Planning

- Build on recent successes
- Unconstrained look-ahead at Red and Orange Line Transformation needs
- Includes:
 - Current funded projects
 - Future transformation projects
- Two separate plans for Red Line and Orange Line, available spring 2023





