



**Massachusetts Bay
Transportation Authority**

Green Line Transformation (GLT) Update

Fiscal and Management Control Board

June 21, 2021

Angel Peña

Green Line Transformation | Program Goals

Program Goal: Improve the Green Line quality of service for all riders through strategic investments in Safety & State of Good Repair, Accessible Stations, Legacy Car Replacement and Increased Capacity

Level 0

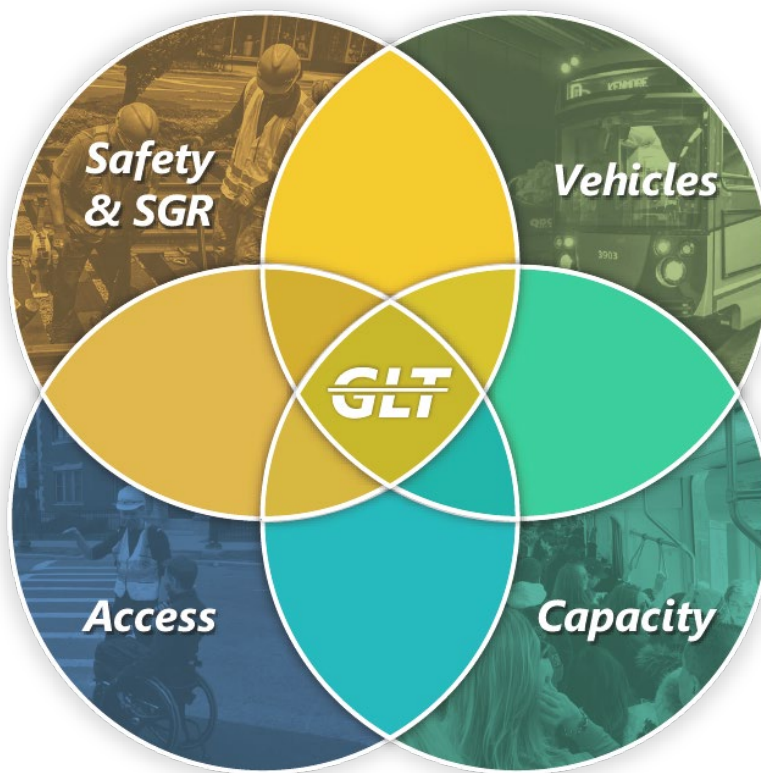
Safety & State of Good Repair (SGR)

- Minimize risk of service disruptions
- Reduce speed restrictions
- Bring assets to state of good repair

Level 1

Accessible Stations

- New or upgraded platforms
- Compliant height, width & slope
- Barrier-free pathways & wayfinding
- Detectable warning panels



Level 2

Legacy Car Replacement

- Operate and maintain single Type 10s
- More efficient O&M
 - 100% of Green Line trains accessible
 - More equitable across the Green Line

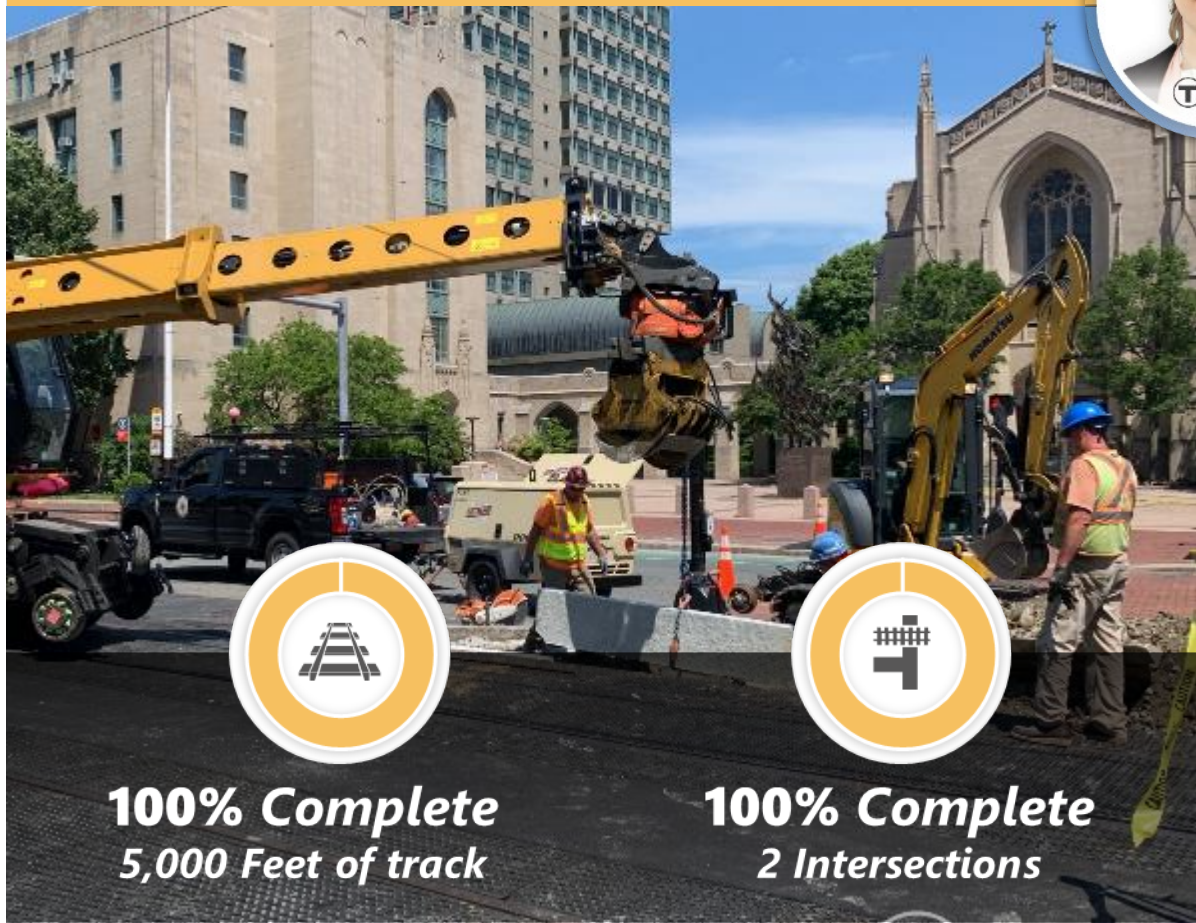
Level 3

Increased Capacity

- Additional vehicles and infrastructure for two-car Type 10 operation
- Increase core capacity of subway
 - Reduce headways and journey time
 - Expand yards and facilities

Level 0 | Safety & State of Good Repair (SGR)

B Branch Track & Intersection Upgrades

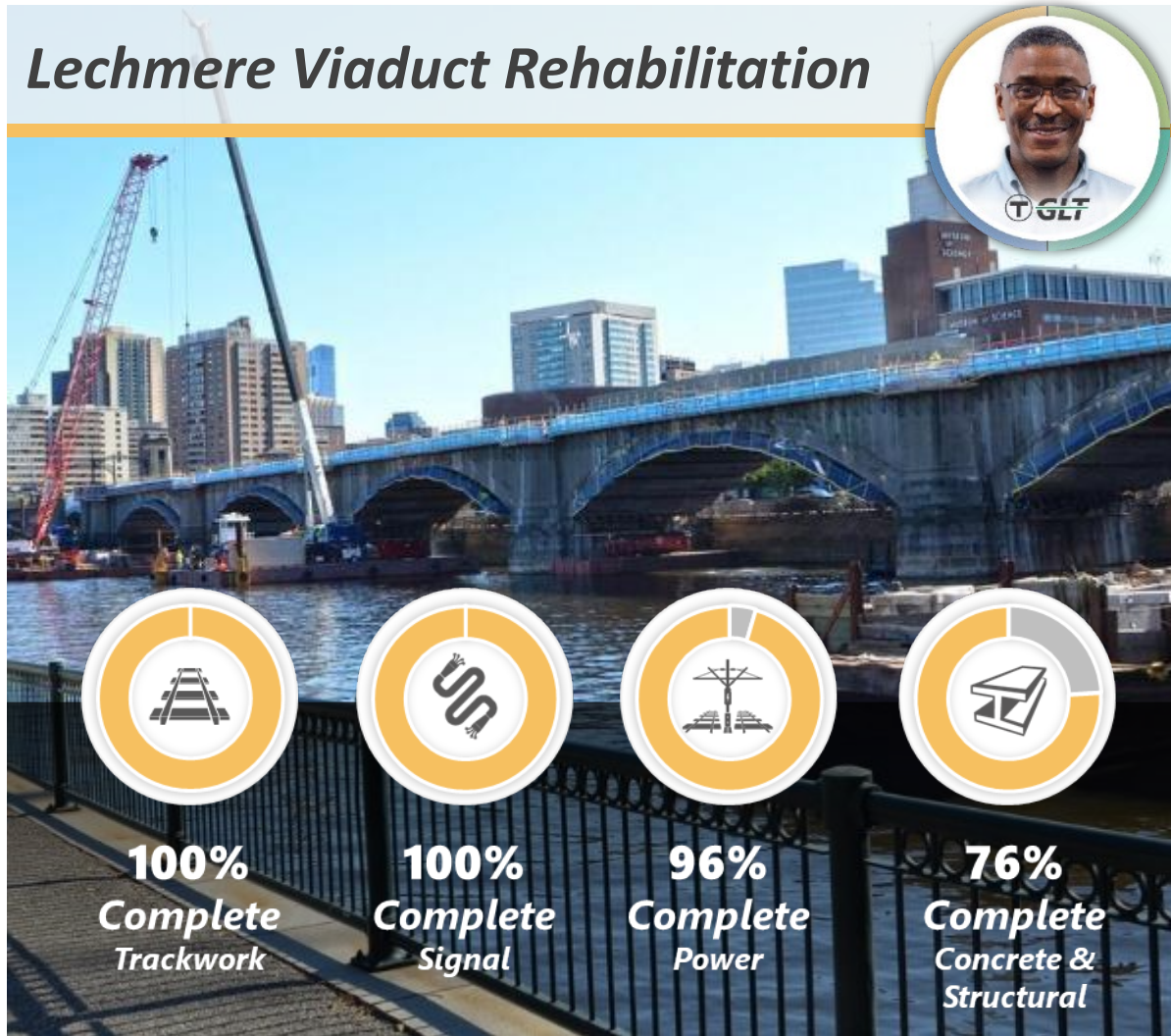


D Branch Track & Signal Replacement



Level 0 | Safety & State of Good Repair (SGR)

Lechmere Viaduct Rehabilitation



Green Line Train Protection System



Design Underway

Accessible Stations | Short-term (0-5 years)

B Branch Station Consolidation



**63%
Completed**



**10% Complete
Canopy
Installations**



**100% Complete
Platform & Walkway
Concrete Slabs**



**90% Complete
St Paul & Babcock
Demolition**

Accessible Stations | Short-term (0-5 years)

Design Underway



**Symphony Station
Accessibility
Improvements**



**Hynes Station
Accessibility
Improvements**



**D Branch Station
Accessibility
Improvements**



**Newton Highlands
Station Accessibility
Improvements**

Planning



**B & C Branch Short-term
Station Accessibility
Improvements**

Advancing Station Design | Long-term

Working in close coordination with the City of Boston

B Branch Station Accessibility Improvements



Designs for stations from **Blandford portal to Boston College** to accommodate accessible paths of travel and boarding

E Branch Station Accessibility Improvements



Designs to add **accessible platforms between Brigham Circle and Heath St** in place of streetcar operation and improve pedestrian accommodations



Fleet Overview | Existing Trains

Type 7: Vehicle Entrance

- No low floor entrances
- Requires mobile lift for accessibility (if available)
- Paired with Type 8



Type 8: Vehicle Entrance

- Only middle door is low floor
- Bridge plate accessible with operator assistance

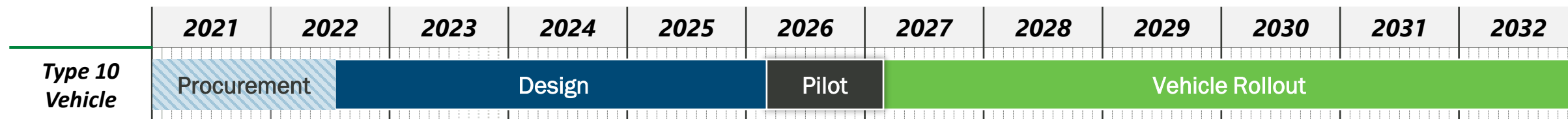


Type 9: Vehicle Entrance

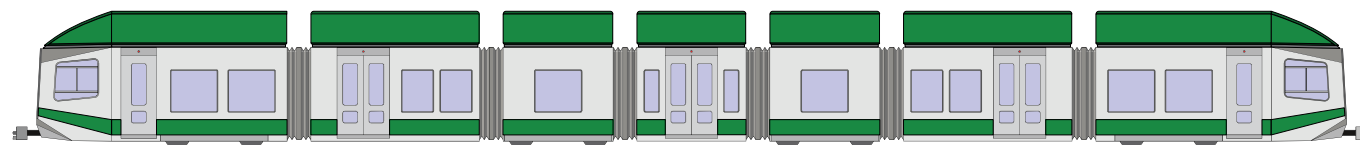
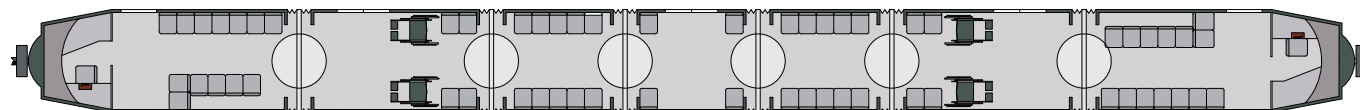
- Only middle door is low floor
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Type 10 Supercar | *Forging Ahead* Outcomes



- ✓ Vendor bid proposals to be submitted on July 14, 2021
- ✓ An addenda was sent out changing the **base contract to 102 cars** from the original 165 car base order
- ✓ **Options have increased** to reflect the new base order quantity
- ✓ We anticipate to have good competition from multiple car builders



Type 10 Supercar: conceptual rendering

- + Low floors to allow for an accessible vehicle
- + Replace legacy fleet
- + Reduced dwell times
- + Allows for improved operations and maintenance

Level 2 | Legacy Car Replacement

Before the Type 10 pilot arrives in 2026, new maintenance capabilities and yard accommodations are required





 Lake St (24 legacy)



 Reservoir (71 legacy)



 Riverside (103 legacy)



 GLX (64 legacy)

Level 3 | Increase Capacity

Double Type 10 Fleet

- ✓ Analyzing number of option cars and funding required to meet future ridership demand
- ✓ Planning projects for operating double Type 10's including yard expansions and power upgrades

FTA Core Capacity Grant Program Eligibility



Next Steps Submit:
Letter of Intent

*Entering into the Core Capacity Grant program would **leverage FTA guidance** and **maximize potential funding eligibility***



Green Line Transformation | *Diverse Team Behind GLT*

