

FOCUS40

Focus40 Draft Plan Preview

Boston MPO

July 19, 2018

Purpose & Agenda

Purpose: To provide an overview of the Focus40 process and recommendations

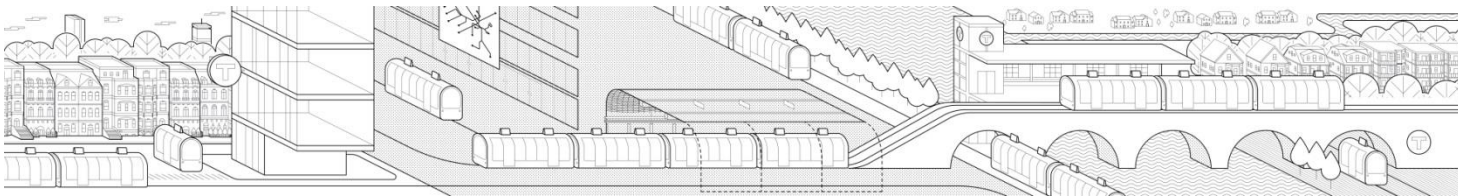
Agenda:

1. Focus40 Process Review
2. Focus40 Proposed Programs
3. Plan Elements and Next Steps

Focus40 Overview

A long-range plan for how the MBTA can meet the needs of the region in 2040:

- A 20-year plan as required by MBTA enabling legislation
- A roadmap of investments to feed future MBTA Capital Investment Plans



Key Components of Focus40 Plan:

- **Programs:** Highlight potential investments that could enable the MBTA system to best serve the region over the long term, divided into three categories (We're Doing, We're Planning, We're Imagining)
- **Priority Places:** Identify priority areas for new or improved service based on where investments have the greatest likelihood to deliver ridership and other benefits to the region

Focus40 is NOT a Financially-Constrained Capital Plan

- Once finalized, investments not yet underway (those identified in *We're Planning: Priorities through 2040*) will be prioritized for planning/design work and phased through existing, rolling 5-year capital planning process

Focus40 Process



Data Collection



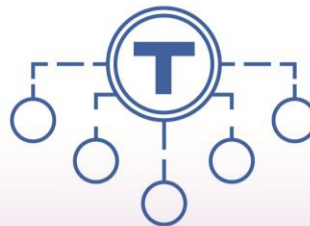
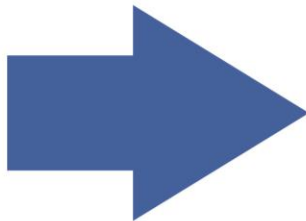
Outreach



Goal Setting



Future Scenarios



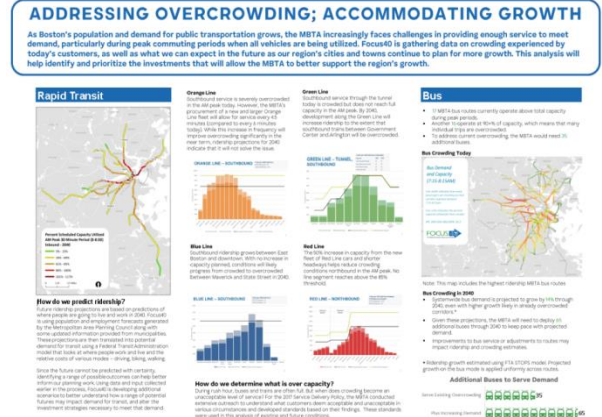
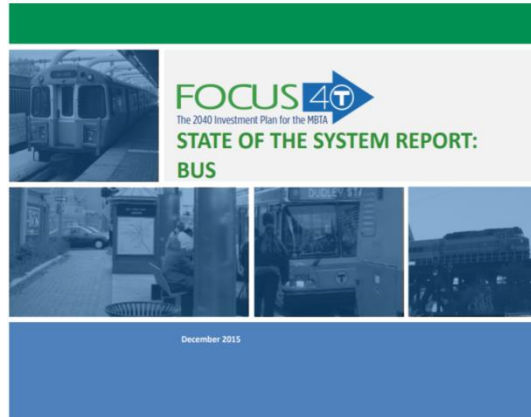
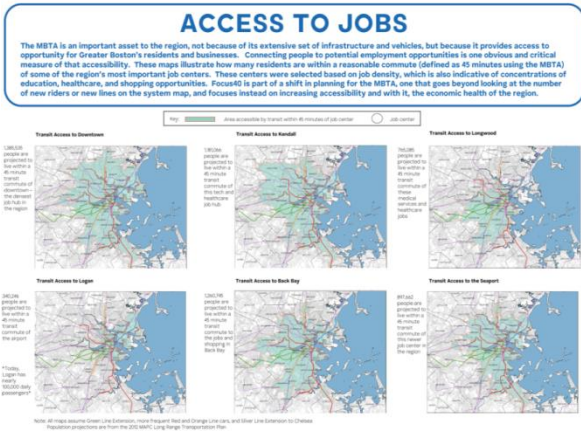
Roadmap for Investment



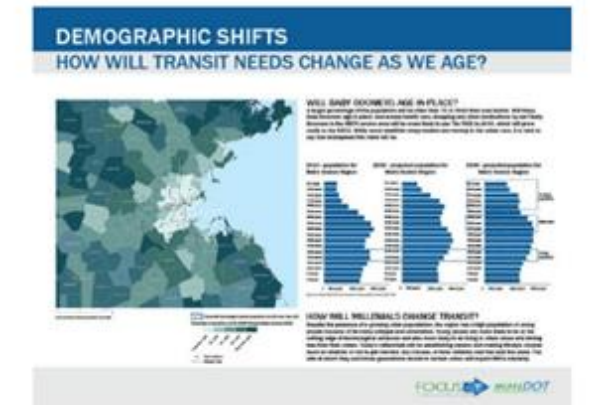
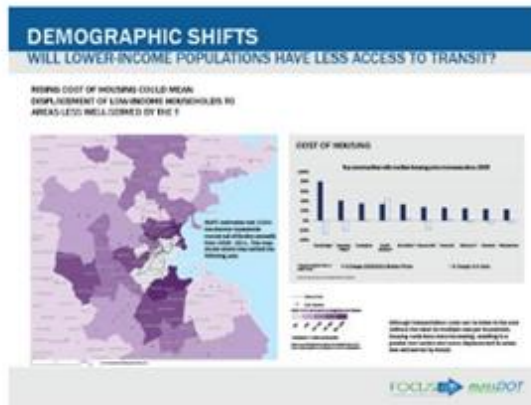
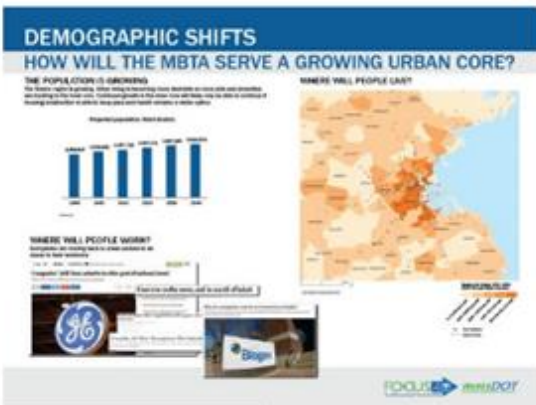
Implementation

Data Collection

Existing and Future Conditions



Trends



Engagement

EXTERNAL ENGAGEMENT

WE ASKED THE QUESTION: WHAT IS A CHALLENGE THE MBTA NEEDS TO ADDRESS IN THE FUTURE?

3



public events

85+



organizations engaged

5



stakeholder workshops

200+



online submissions

100

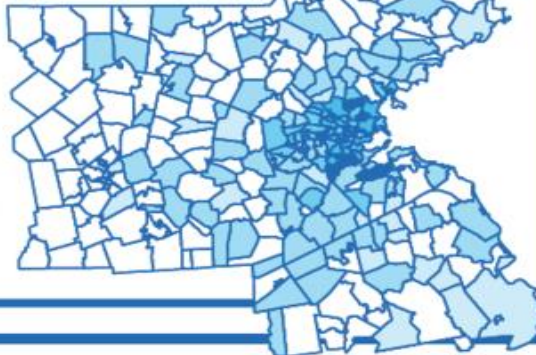
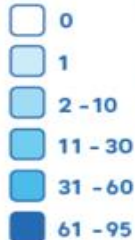


street team hours

WE COLLECTED IDEAS FROM MORE THAN 2,000 PEOPLE

FOCUS40 COMMENTS

RESPONSES



STREET TEAM HOURS

THE FOCUS40 STREET TEAM OUTREACH WAS DESIGNED TO CORRESPOND WITH OVERALL MBTA RIDERSHIP BY MODE.



60 HOURS AT RAPID TRANSIT STATIONS



30 HOURS AT BUS STATIONS



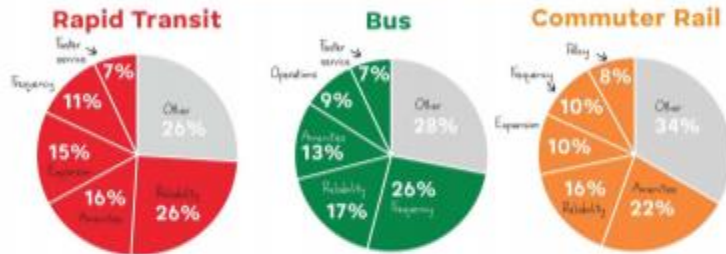
10 HOURS AT COMMUTER RAIL STATIONS

OVER 3,000 IDEAS COLLECTED!

WHAT WE HEARD FROM YOU

We collected more than 3,000 ideas from the public about how they want the MBTA to better serve the Greater Boston region over the next 25 years. These ideas ranged from expansion projects to ideas that would improve the capacity, reliability, and accessibility of the system.

What we heard by mode



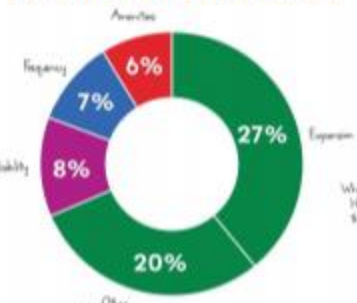
Other includes comments related to expansion, reduction, transit priority, parking, capacity, etc.

While MBTA civic engagement efforts will always be met with ideas for major system expansions, the majority of input was about improvements in the core system. What we heard also appeared to change based on the type of outreach.

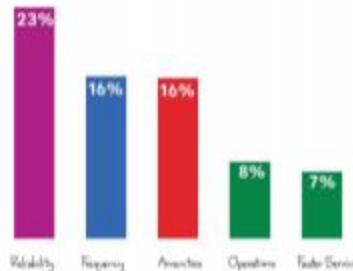


Top 5 Comments from our website and stakeholders

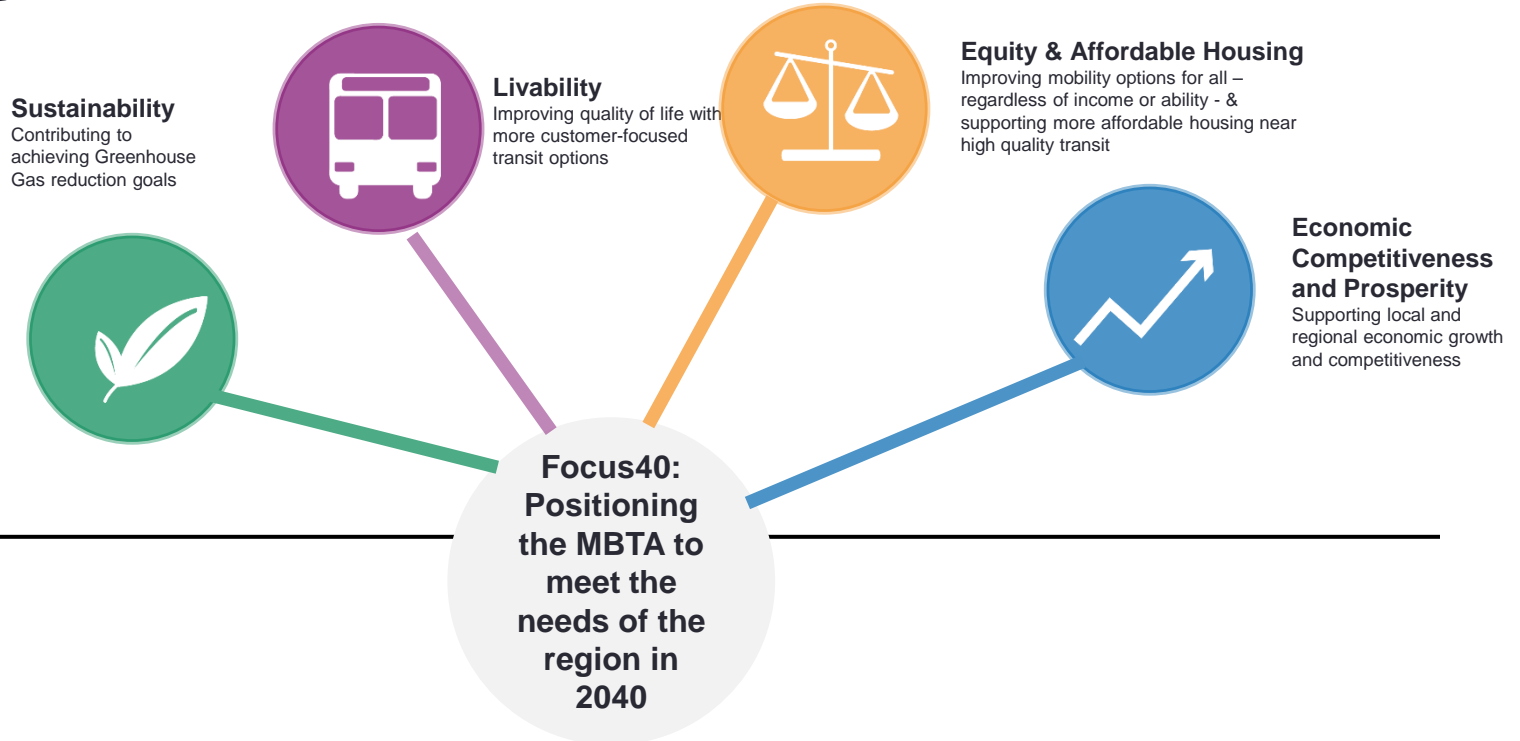
Top 5 Comments from the Street Team



What were people saying? Here are the primary themes that emerged.



Goals



To Serve the Needs of the Region the MBTA must be:

Reliable

Providing service that is safe, reliable, on-time, and high quality for customers of all ages and abilities

Robust

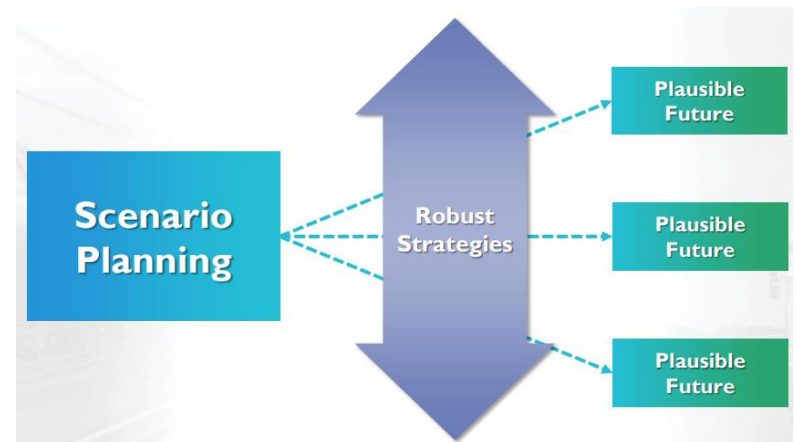
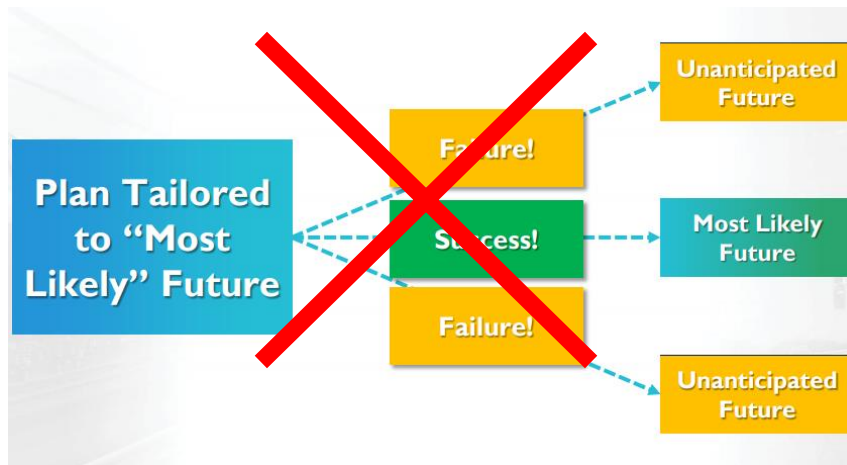
Providing service that has the capacity to take people where they want to go as demand for transit increases

Resilient

Providing service that is built to last through extreme weather and other disruptions

Scenario Planning

- Focus40 uses scenario planning to better understand what the MBTA's region might be like in 2040.
- Instead of planning for one specific future, Focus40 developed four plausible futures for the region.



Scenario Planning Investment Framework

Focus40 uses a conceptual scenario planning framework to help prioritize potential programs. In the draft plan, those investments categorized as “We’re Planning” are considered to work in all or most plausible futures. Those programs categorized as “We’re Imagining” work in some futures, but are under consideration as hedging and/or shaping strategies.

INVESTMENT CLASSIFICATION	Lower Risk	Higher Risk
Important in all/most futures Robust strategies	We’re Doing: Commitments Underway <i>(current or near-term need)</i>	
	We’re Planning: Next Priorities <i>(needed in all/most futures)</i>	
Could be important in some futures	Deferred, while tracking drivers of future needs	We’re Imagining: Big Idea-Hedging <i>(might not be necessary given future context)</i>
		We’re Imagining: Big Idea-Shaping <i>(may influence the future context)</i>
Not important in any future	Not included	

Focus40 Scenarios

DRIVING TRENDS

PLAUSIBLE FUTURES



Boston MPO vision for compact, sustainable growth.



Low and moderate income households are choosing to live in more affordable suburbs & Gateway Cities



Technology changes are adopted quickly and radically change the transportation landscape



Enhanced commitment by the Commonwealth to invest in GHG reduction and resiliency measures

Urbanization

Suburbanization



Urbanization

Suburbanization



Urbanization

Suburbanization



Urbanization

Suburbanization



Urbanization

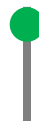
Affordability

Low Affordability Near Transit



High Affordability Near Transit

Low Affordability Near Transit



High Affordability Near Transit

Low Affordability Near Transit



High Affordability Near Transit

Low Affordability Near Transit



High Affordability Near Transit

Technology

Gradual Evolution



Disruptive Change

Gradual Evolution



Disruptive Change

Gradual Evolution



Disruptive Change

Gradual Evolution



Disruptive Change

Climate Action

Low Collective Action



High Collective Action

Low Collective Action



High Collective Action

Low Collective Action



High Collective Action

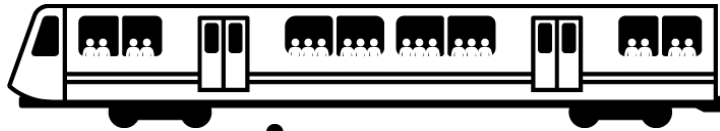
Low Collective Action



High Collective Action

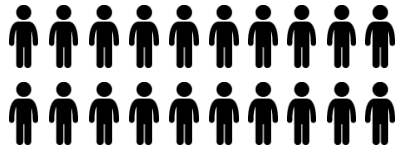
Robust Strategies

Red Line (Riders Per Hour)

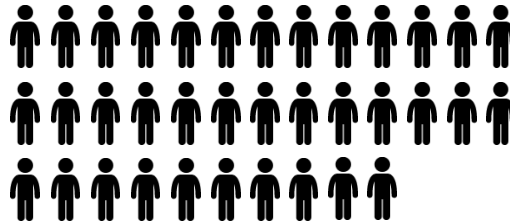


 = 500 riders

Today's Red Line cars can carry 10,000 riders/hr



Tomorrow's Red Line cars can carry 18,000 riders/hr



Highway Access/I-93

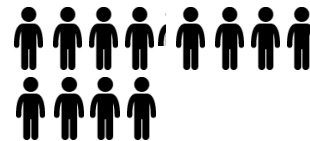


1,900 vehicles/lane/hr

Boston Area AVO –

1.08

6,150 people/hr



FOCUS40 PLACES

Priority Places Overview

Focus40 is trying to shift the conversation...

Instead of starting with expansion project ideas, Focus40 is about identifying places that need and can support higher quality transit – Priority Places – and then developing projects to serve those places.

Focus40 identifies Priority Places for new or improved service based on where investments have the **greatest likelihood to deliver ridership** and other real **benefits to the region**, where:

- Improved service could **address a clear transportation need** and help **support broader goals** for the region
- Many elements indicate that **the place can support higher quality transit**
- There is a **demonstrated transportation need today that is likely to grow**

Three types of priority places:

- **Major Employment / Destination Districts**
- **Inner Core Communities Lacking Rapid Transit**
- **Urban Gateways**

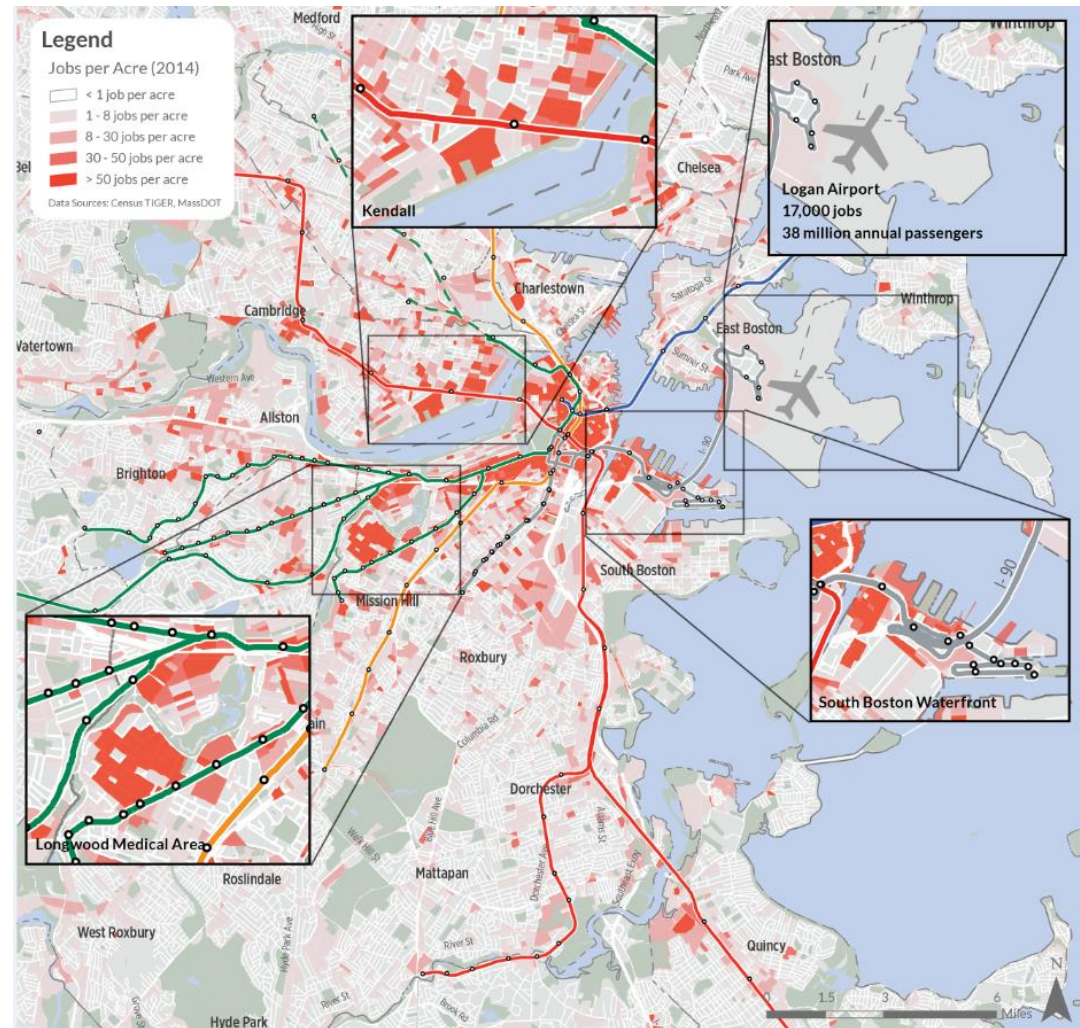
Major Employment/Destination Centers

Characteristics:

- Growing business districts just beyond the densest part of the rapid transit network
- Longer than average transit commute times, often requiring one or more transfers
- The overloading of existing road networks and MBTA services
- The presence of multiple shuttle providers to compensate for insufficient MBTA service

Examples:

- South Boston Waterfront
- Kendall Square
- Longwood Medical Area
- Logan Airport



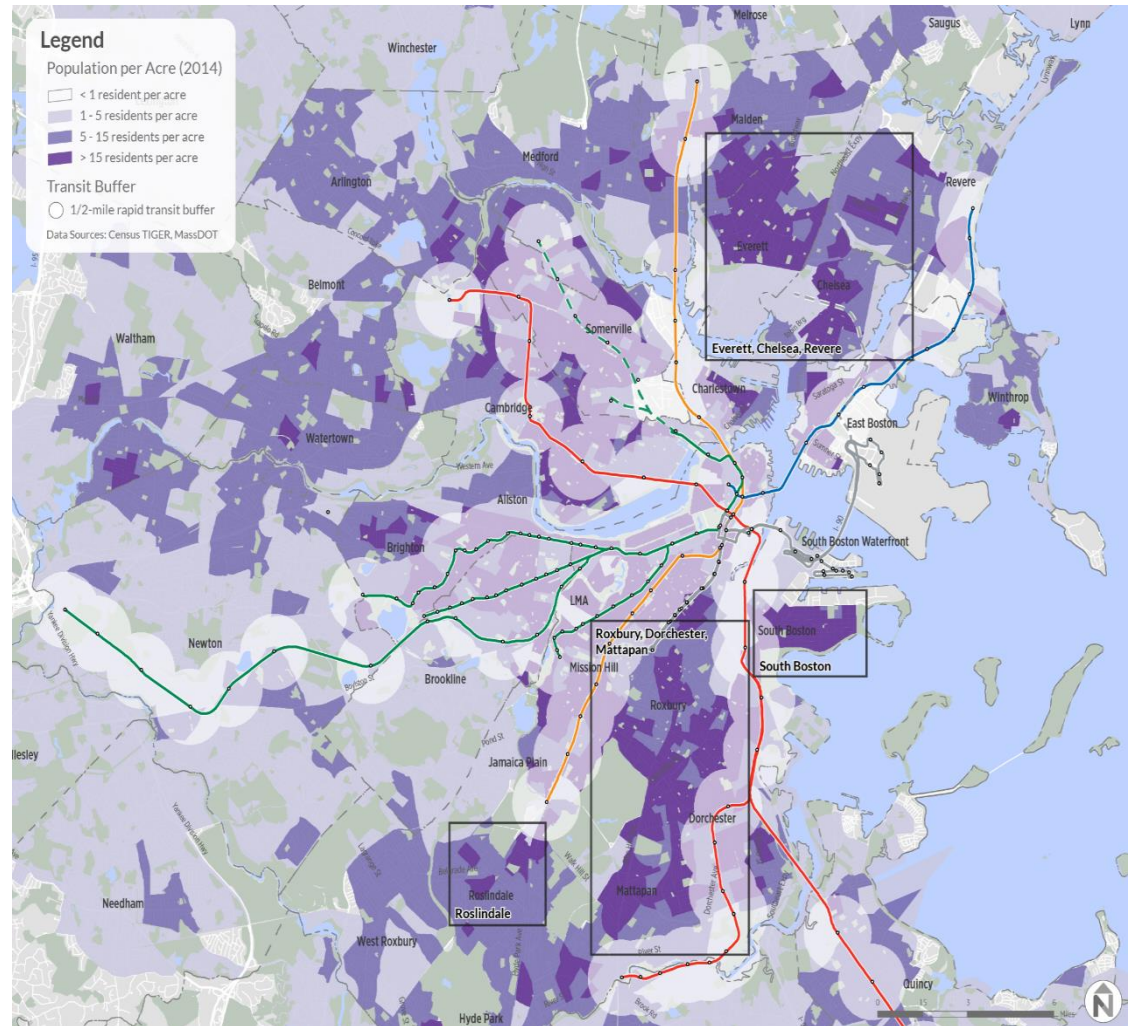
Inner Core Communities Lacking Rapid Transit

Characteristics:

- Residential areas between the rapid transit network that are only served by bus or commuter rail
- Commuter rail access that does not fully serve the needs of the community given how our commuter rail system currently works at the inner ends of the system
- Many are lower-income communities and/or transit dependent

Examples:

- Chelsea
- Everett
- Blue Hill Avenue (Boston)
- Roslindale (Boston)



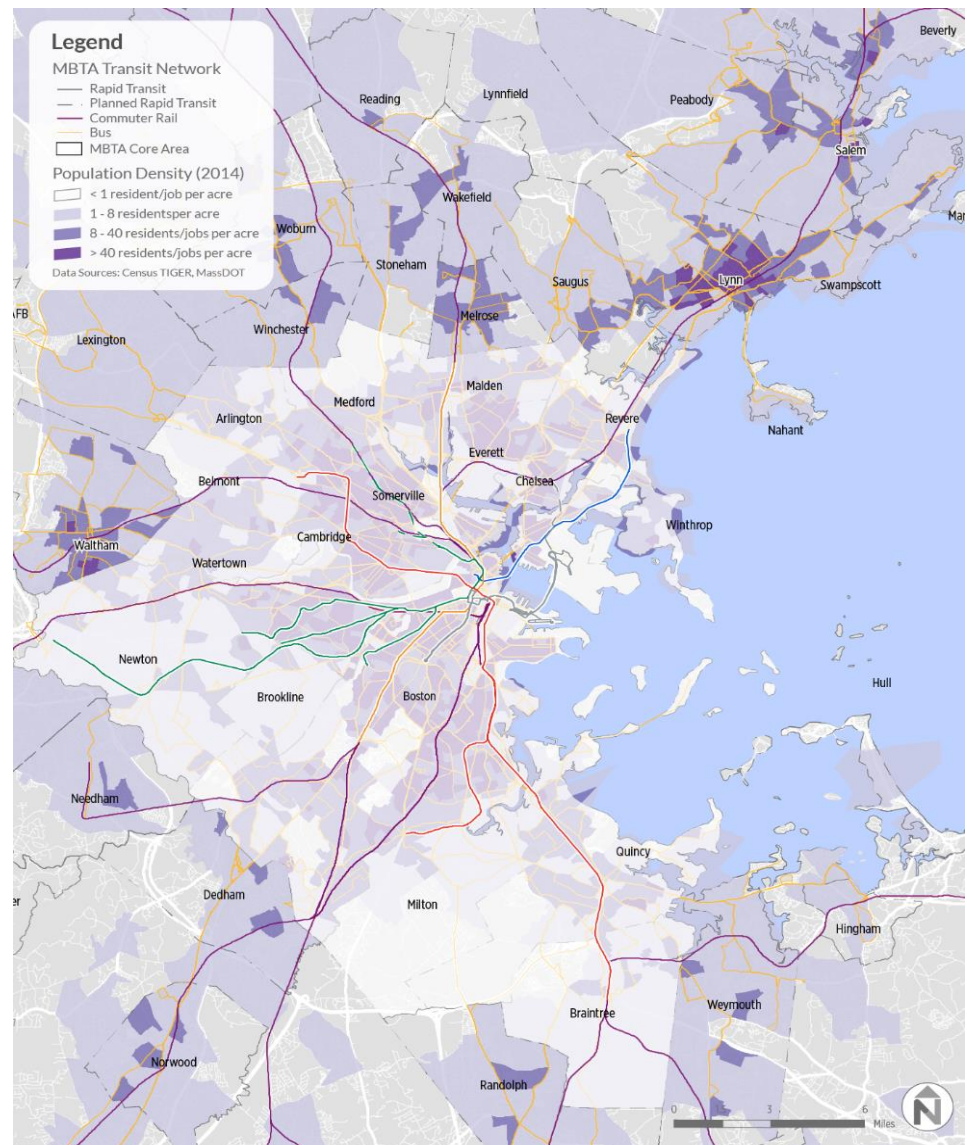
Urban Gateways

Characteristics:

- Located beyond the rapid transit network and served by commuter rail that often functions as a hub for local MBTA or regional transit authority bus service
- A large population of low-income residents and/or transit dependent residents
- A moderate-intensity balance of residential and commercial development either built or permitted

Examples:

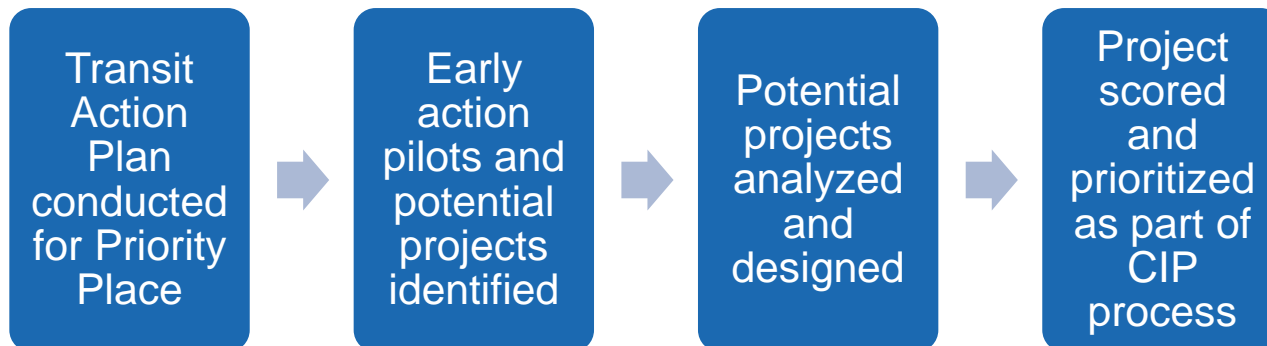
- Lynn
- Salem
- Waltham



From Priority Places to Programs to Projects

Focus40 is built on programs, each with a stated objective, following the pattern set by the Capital Investment Plan and Strategic Plan processes.

- Eight are specific to existing MBTA modes/services and focused on making the existing system more reliable, robust and resilient
- Three are systemwide (customer experience, resiliency, accessibility/paratransit)
- **An additional program is included for already planned and future expansions serving Priority Places.**



FOCUS40 PROGRAMS

Proposed Programs Framework

Focus40 lays out studies, projects and investments within each program, divided into the following categories:

- **We're Doing (Commitments through 2023):** Investments that are programmed in the Capital Investment Plan.
- **We're Planning (Next Priorities through 2040):** Investment options that are important to meet the needs of the region in 2040 in most/all of the plausible future scenarios.
 - Will be prioritized for planning/design work and, if deemed to be cost-effective, phased through existing, rolling 5-year capital planning process.
- **We're Imagining (Big Ideas):** Investment options whose feasibility, benefits, and costs must be better understood. Many of these big ideas are potentially transformative and may be important hedges or shaping investments for the region, depending on which future we expect or want.

Program	Objective
PARATRANSIT & ACCESSIBILITY	Ensure that the vast majority of customers can use the MBTA's increasingly accessible fixed-route system, while those who still need The RIDE have more and better service options.
CUSTOMER EXPERIENCE	Provide regular and occasional riders alike with high quality services that are easy to navigate and pay for and a pleasure to use.
RESILIENCY	Retrofit priority T assets to withstand severe weather and sea-level rise and ensure all new construction meets strict resiliency standards.
BLUE LINE 2040	Accommodate growth at Logan International Airport and development sites in East Boston and Revere and ensure resiliency to severe weather and sea-level rise.
GREEN LINE 2040	Increase capacity with redesigned, larger vehicles and modernized infrastructure on the nation's busiest light rail line by at least 50%.
RED LINE 2040	Enable a modernized line with peak trains every 3 minutes to connect residents of transit-oriented housing to growing job centers - all connected to a reimagined Mattapan Line.
ORANGE LINE 2040	Increase peak-hour service to every 4.5 minutes (3 minutes if development warrants) to serve homes and businesses throughout the growing corridor, serving additional riders from the Lower Mystic region.
SILVER LINE 2040	Add capacity and connectivity with an expanded and cleaner fleet that serves not only the Seaport, but an expanded Silver Line network extending beyond Chelsea.
BUS 2040	Achieve a better, faster, lower-emissions service, supported by off-board fare collection and exclusive busways, aligning with where riders live, work, and travel.
COMMUTER RAIL 2040	Serve more riders and non-commuting trips, by providing better connections to more destinations and potentially by implementing one or more new service models (urban rail/regional rail), pending results of Commuter Rail Vision Study.
WATER TRANSPORTATION 2040	Support a robust, multi-operator Boston Harbor water transportation system, serving more passengers and destinations with excellent connections to landside T service.

CUSTOMER EXPERIENCE



Program Objective: Provide regular and occasional riders alike with high quality services that are easy to navigate and pay for and a pleasure to use.

We're Doing: Commitments through 2023

- **Automated Fare Collection (AFC 2.0)**
 - All-new fare collection system to be completed by May 2020, with new fare gates Spring 2021
 - Single application on fare card, smartphone, or contactless credit card for boarding all modes of transit, including commuter rail
 - Reduces boarding time, speeds up service on Green Line and buses
 - Potential for seamless integration with Regional Transit Authorities, Lyft/Uber, and other micro-transit systems
- **Station Improvements**
 - Signage, wayfinding, and lighting improvements systemwide
- **Digital MBTA**
 - Real-time information for travel planning and performance enhancements

We're Planning: Next Priorities through 2040

- **Station Modernization, Including Exploration of Platform Barriers and Doors**
 - Platform doors can speed boarding, improve safety, and reduce delays
- **Partnerships for Improved First-Mile/Last-Mile Connections**
 - Support mobility hubs
- **System Access Improvements (parking and other)**
 - Where is more parking needed?
 - What are better uses for underutilized parking areas?
 - Where should increased bicycle parking be added?
 - Will drop-off access grow as a customer preference?

***We're Imagining:** A "Digital MBTA" that is at the cutting edge of using technology to enhance the transit experience and encourage transit use.*

GREEN LINE 2040



Program Objective: Increase capacity with redesigned, larger vehicles and modernized infrastructure on the nation's busiest light rail line by at least 50%.

We're Doing: Commitments through 2023

- **Green Line Transformation Phase 1: SGR Projects**
 - Track, signal and power upgrades to improve reliability
 - Planning for Phase 2
- **Green Line Extension**
 - 4.5-mile extension to College Avenue in Medford and Union Square in Somerville
 - Puts 80% of all Somerville residents within walking distance of rapid transit
- **Surface Green Line Stop Consolidation**
 - 4 stops on B branch
 - Exploring other opportunities
- **Surface Green Line Transit Signal Priority Infrastructure**
 - For trains at B, C, and E line street crossings
 - \$30m improvement plan for 60 grade crossings
- **Green Line Train Protection:** Collision-avoidance automatic-braking systems
- **Accessibility Upgrades at Hynes, Symphony Stations**

We're Planning: Next Priorities through 2040

- **Green Line Transformation Phases 2 & 3**
 - All-new "Type 10" longer cars
 - 116 feet long, compared to 74 now
 - Fully accessible, low-floors throughout car
 - Five entry-exit doors per car
 - Requires upgraded maintenance facilities
 - 15% more capacity by increasing peak weekday trains from 73 to 94
 - 50% more capacity by adding 2-car trains to D and E branches
- **Explore Reservation and Right-of-Way Expansion for Surface Green Line**
 - Dedicated Right of Way on E-branch
 - Prevent turning conflicts on B & C branch

We're Imagining: Extensions to Mystic Valley Parkway in Somerville/Medford, Hyde Square in Jamaica Plain. Park Street-Downtown Crossing "superstation." Reconfiguring 27 B and C branch stops to allow trains of two Type 10 cars, doubling capacity.

SILVER LINE 2040



Program Objective: Add capacity and connectivity with an expanded and cleaner fleet that serves not only the Seaport, but an expanded Silver Line network extending beyond Chelsea.

We're Doing: Commitments through 2023

- **Silver Line Fleet Planning and Procurement**
 - Trial beginning late 2018 of vehicles that can operate in Transitway Tunnel
 - Determining Silver Line vehicle capacity needs
- **SL2 and SL4 On-Street Improvements**
 - Partner with City of Boston to improve bus lane delineation and prioritize enforcement of designated bus lanes on Essex and Washington Streets
- **Transit Signal Priority Infrastructure in the Seaport**
 - Reduce conflict, delays at D Street with buses emerging from Transitway tunnel

We're Planning: Next Priorities through 2040

- **Silver Line Next Gen Fleet and Facility**
 - Expanding fleet would improve rush-hour capacity and performance, will require an expanded Southampton Garage/other storage space
- **Bus Rapid Transit to Everett**
 - For Revere, Malden, Everett, reduce crowding on bus routes and add near-rapid-transit service for residents beyond reach of Blue and Orange Lines
- **Infrastructure Upgrades in Tunnel**
 - Fix leakage and drainage issues, roadway surface

***We're Imagining:** More exclusive right-of-way by eliminating the Transitway's at-grade crossing of D Street.*

BUS 2040



Program Objective: Achieve a better, faster, lower-emissions service, supported by off-board fare collection and exclusive busways, aligning with where riders live, work, and travel.

We're Doing: Commitments through 2023

- **Better Bus Project Phase 1** to revamp routes, frequencies, and stops with implementation planned in 2019
 - Partnerships with cities and towns to implement bus lanes, traffic signal priority, “queue jumps” and other service enhancements
- **Better Bus Project Phase 2: Network Redesign** to look at better ways to serve bus riders through a network redesign
- **Municipal collaboration to Improve High Priority Bus Facilities and Stops**
 - Improved access and safety features at over 200 high-priority bus stops for accessibility improvements
- **Bus Fleet Replacement and Expansion**
 - 460 40-foot buses scheduled for delivery 2021-25
 - Option order procurement of 194 hybrid buses
 - Exploring new and expanded maintenance facilities
- **Zero- Emissions Bus In-Service Testing** to inform future fleet procurement

We're Planning: Next Priorities through 2040

- **21st Century Vehicle Maintenance and Storage Facilities**
 - Accommodate low/no emissions fleet
 - More resilient
 - More capacity for expanded fleet, more 60' buses
- **Fleet Expansion to Serve Bus and Bus Rapid Transit Network**
- **Better Bus Project Phase 3: Implementation of Network Redesign**
- **Phased Conversion to Zero-Emissions Fleet**
 - Pending findings from testing
- **New Bus Rapid Transit (BRT) corridors with more frequent, comfortable, accessible service and exclusive bus lanes**

***We're Imagining:** Autonomous bus shuttles that can serve new routes and deliver first-mile/last-mile connections for passengers to commuter rail and rapid transit*

COMMUTER RAIL 2040



Program Objective: Serve more riders and non-commuting trips, by providing better connections to more destinations and potentially by implementing one or more new service models (urban rail/regional rail), pending results of *Commuter Rail Vision Study*.

We're Doing: Commitments through 2023

- *Commuter Rail Vision*
- **North Station Drawbridge**
 - Faster and more reliable service out of North Station
- **South Coast Rail Phase 1**
- **Bi-Level Coach Procurement and Locomotive Upgrades**
 - Added capacity and more reliable vehicles
- **Ruggles Station Upgrades**
 - More stops with better connections to Orange Line
- **Positive Train Control and Automatic Train Control**

We're Planning: Next Priorities through 2040

- **Station Investments (Infill, Rapid Transit Connections)**
 - Infill targeted for Priority Places
- **Regional Multimodal West Station and Midday Layover**
- **Double and Triple Tracking to Add Capacity**
 - Worcester Line and other congested areas
- **South Coast Rail Phase 2**

As part of the *Commuter Rail Vision* process now underway, MassDOT/MBTA is examining various possible service models for rail transportation in the Commonwealth. Topics include the benefits and costs of urban rail and regional rail, of service focused on reverse-commute needs and the needs of Gateway Cities, and of system electrification. Different service models will require different near, medium, and long-term capital investments.

We're Imagining: *Electrification of some or all of the rail network with major capital projects supporting a system that is more than "commuter" rail*

Implementation

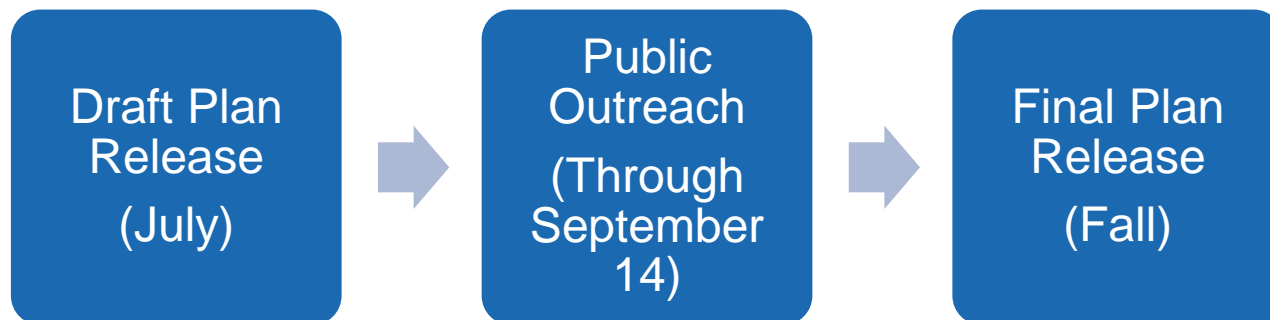
- **Implementation through capital planning and project selection**
 - Annual, pre-CIP review to track status, incorporate new information and set upcoming programmatic priorities
 - Incorporate F40 long-term policy priorities into **project scoring**
- **Foundation** for municipal and public-private partnerships
- **Framework for follow-on studies:**
 - Bus Network Redesign
 - Commuter Rail Vision
 - Studies/project development to advance Robust initiatives
 - ✓ Maintenance/storage facility site plans and acquisition
 - ✓ station access studies
 - ✓ Bus priority planning (on state owned and municipal roadways)
 - Planning studies in partnership with priority places
- Foundation for the **Commission on the Future of Transportation in the Commonwealth**

Overview of Plan Elements

- Focus40 (both draft and final) will be released as a printed/printable book summarizing key elements and on a website with more detailed information
- The “book” will summarize
 - Process
 - Goals
 - Scenario planning
 - Programs (including program objectives)
 - Priority places
 - How to engage (draft only)
- Web content with more detail
 - Existing conditions (state of the system reports)
 - Trends and more information on scenarios
 - Priority Places additional information

Next Steps: Plan for Focus40 Release

- Post plan documents
- Promote online survey for public comment
- Distribute copies of the draft plan
- Meet with additional stakeholders during public comment period



PARATRANSIT & ACCESSIBILITY



Program Objective: Ensure that the vast majority of customers can use the MBTA's increasingly accessible fixed-route system, while those who still need The RIDE have more and better service options.

We're Doing: Commitments through 2023

- **RIDE Vehicle Replacement Program**
 - Replacing 84.5% of The RIDE's fleet by mid-2022 with new, lower-emissions vehicles
- **Dispatch Process Redesign to Provide RIDE Customers with Additional Options**
 - Offer customers Lyft, Uber, and taxi options
- **Plan for Accessible Transit Infrastructure (PATI) Phase 1: Plan Completion and Early Actions**
- **Priority Rail Station and Bus Accessibility Improvements**
 - Wollaston, Red Line
 - Oak Grove, Orange Line
 - Hynes, Symphony, Green Line
 - BU West/St. Paul, Babcock/Pleasant Street, Green Line B branch
 - Newton Highlands, Green Line D branch

We're Planning: Next Priorities through 2040

- **Implementation of (PATI) Mid-Term Recommendations**
 - Includes Green Line surface stop accessibility
- **RIDE Service Reimagining**
 - Based on new data and technology and a more accessible fixed route system

We're Imagining: Ridership growth from development around bus and commuter rail stops that supports investment to make them fully accessible.

RESILIENCY



Program Objective: Retrofit priority T assets to withstand severe weather and sea-level rise and ensure all new construction meets strict resiliency standards.

We're Doing: Commitments through 2023

- **System-Wide Climate Change Vulnerability Assessments**
 - Using long-term projections, identifies and prioritizes vulnerabilities
- **Blue Line Resiliency and Adaptation**
- **Green Line Portal Protection**
- **Adaptation Strategies for Priority Infrastructure in Collaboration with Municipalities**
 - Partnering with MassDOT, MAPC, EEA and municipal partners on data collection, vulnerability assessment, and solution development

We're Planning: Next Priorities through 2040

- **Incremental Implementation of System-Wide Climate Change Vulnerability Assessments**
 - Identify strategies to address vulnerabilities
 - Incorporate resiliency upgrades into ongoing work
- **Resilient Power Supply**
 - Prevent potential disruptions to power supply for Rapid Transit

We're Imagining: An MBTA fully resilient in even the most dire climate scenarios and providing essential mobility for the Boston region amid severe weather and sea-level rise

BLUE LINE 2040



Program Objective: Accommodate growth at Logan International Airport and development sites in East Boston and Revere and ensure resiliency to severe weather and sea-level rise.

We're Doing: Commitments through 2023

- Resiliency Phase 1: Planning and Early Actions
- Reliability Centered Vehicle Maintenance Program
- Infrastructure Improvements between Maverick and Aquarium
 - Power and ventilation upgrades
 - Track replacement

We're Planning: Next Priorities through 2040

- **Potential Downtown Pedestrian Connection between the Red and Blue Lines**
 - Downtown Crossing and State Street Stations are only 600 feet apart
 - Alternative to Red-Blue Connector at Charles/MGH
 - Relieves congestion on Green and Orange Lines for Red-Blue connections
 - Step towards a Downtown Crossing-Park Street-State “downtown superstation”
- **Blue Line Capacity and Reliability Improvements**
 - Can add capacity with operational improvements and expanding train-sets
 - Signal system upgrades
- **Resiliency Phase 2: Further Implementation**
 - Portal to protect Aquarium-Maverick tunnel
 - Orient Heights maintenance yard resiliency

***We're Imagining:** Connecting the Blue Line to the Red Line, creating a downtown superstation, and extending Blue Line beyond to Back Bay and Longwood, and also north to downtown Lynn, to support transformational development*

RED LINE 2040

A white letter 'T' inside a white circle, representing the MBTA logo.

Program Objective: Enable a modernized line with peak trains every 3 minutes to connect residents of transit-oriented housing to growing job centers - all connected to a reimagined Mattapan Line.

We're Doing: Commitments through 2023

- **Fleet Replacement and Maintenance Facility Upgrades**
 - Replacing all 218 Red Line cars
- **Capacity and Reliability Improvements:**
 - Modernizing signals, traction power
 - Improving Alewife bottleneck
 - Peak service increased from every 4.5 minutes to 3 minutes
- **Red Line South Improvements (Wollaston, TOD, Parking Garages)**
- **Mattapan High Speed Line Reimagining and Short-Term Improvements**
 - Vehicles are over 70 years old and replacement parts and components are no longer available
 - Rehabilitate fleet to allow antique trolleys to continue operating until new technology becomes available

We're Planning: Next Priorities through 2040

- **Downtown Pedestrian Connection between the Red and Blue Lines**
- **Strategic Track Reconfiguration to Address Bottlenecks**
 - Improve travel times and reduce delays by reconfiguring current track/signal bottlenecks at Park Street and Columbia Junction at JFK/UMass
- **Reimagine Mattapan Line**
 - Based on reimagining study and outreach

We're Imagining: A connection to the Blue Line and a downtown superstation to improve the customer experience and reduce travel times.

ORANGE LINE 2040



Program Objective: Increase peak-hour service to every 4.5 minutes (3 minutes if development warrants) to serve homes and businesses throughout the growing corridor, serving additional riders from the Lower Mystic region.

We're Doing: Commitments through 2023

- **Fleet Replacement and Maintenance Facility Upgrades**
 - All 120 Orange Line cars are being replaced and 32 more are being added to expand the fleet
 - Roomier cars, larger doors for faster boarding
 - Wellington Car House to be rebuilt and expanded by 2021, with upgraded test track
- **Capacity and Reliability Improvements**
 - Signal, power upgrades to support more frequent service
 - Peak service increased from every 6 minutes to 4.5 minutes

We're Planning: Next Priorities through 2040

- **Orange Line Connectivity Improvements**
 - Explore adding Commuter Rail station at Sullivan Square
 - Potential for future Silver Line-Orange Line connection if Silver Line is extended from Chelsea
- **Additional Capacity Improvements (3-Minute Headways)**
 - Depending on pace of development evaluated by the Lower Mystic Regional Working Group
 - Potential to utilize Wellington test track between Wellington and Sullivan

We're Imagining: Extensions to Roslindale and downtown Everett via spur from Sullivan Square to serve high travel demand. Buildout of a Sullivan Square Superstation, and Downtown Crossing/Park Street/State "Downtown Superstation."

PLACE-BASED SERVICE ADDITIONS



Program Objective: Focus new services and expansion projects on providing high frequency, reliable service to better meet the needs of those who live and work in and travel to Priority Places that can support high quality transit service.

We're Doing: Commitments through 2023

- Transit Action Plans for Priority Places (Lynn, Allston, Everett, Seaport)
- Green Line Extension to Somerville/Medford
- South Coast Rail Phase 1
- Service Pilots

We're Planning: Next Priorities through 2040

- Place-based Service Expansions Based on Pilots and Action Plans
 - Bus Rapid Transit
 - Infill Stations
- Better Bus Project Phase 3: Network Redesign Implementation
- Early Actions from Commuter Rail Vision
- Regional Multimodal West Station
- South Coast Rail Phase 2

We're Imagining: Rail extensions and new bus rapid transit routes better connecting Priority Places.

WATER TRANSPORTATION 2040



Program Objective: Support a robust, multi-operator Boston Harbor water transportation system, serving more passengers and destinations with excellent connections to landside T service.

We're Doing: Commitments through 2023

- **Landside Infrastructure Improvements**
 - Awarded FTA grant to upgrade Hingham dock, ramps, and floats
 - Accommodate persons with disabilities at all tide levels
 - Ease boarding and disembarking for all passengers
- **Fleet Expansion to Four Ferries**
 - Two new T-owned vessels accepted, doubling T fleet to four vessels

We're Planning: Next Priorities through 2040

- **Expanded and Better Integrated Multi-Operator Water Transportation Network**
 - Potential new routes
 - Better options for connections between ferry routes
 - Better options to transfer to other modes

We're Imagining: *A built-out, comprehensive, resilient, multi-operator network with purpose-built ferries serving thousands more commuters and travelers every day.*