

Fiscal and Management Control Board

October 5, 2020

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- Essential services analysis and reminder of trade-offs by mode
- Review of statutory obligations
- Public engagement plan

Defining Our Essential Services

Based on two analyses:

- Where are the trips made by transit critical populations
- Where we have high ridership now or are likely to in the next year or two

	Serving high transit critical population	Serving low transit critical population	
Higher ridership (current or propensity)	Preserve service / access at SDP standards (though individual trips may still be affected)	Consider trade-offs depending on budget availability	
Lower ridership (current or propensity)	Consider trade-offs depending on budget availability	Most likely to reduce service levels	

This process is designed to create an equitable network that preserves access and quality of service available to transit critical populations (low-income, people of color, seniors, people with disabilities, and no to low vehicle households).

MBTA Essential Services Methodology

- The "quadrants" are created by two axes: ridership potential and transit criticality
 - The unit of measure at this point is a route (e.g. bus route, commuter rail line)
 - Ridership data is from weekdays September 2020 compared to September 2019
 - Ridership data is normalized by service hours to compare modes to each other
- Ridership potential based on pre-COVID ridership and COVID ridership retention per service hour (to adjust for routes that lost some service during the pandemic)
- Transit criticality is a travel demand measure (travel not necessarily on MBTA) that captures where low income people, people of color, and people in zero- and low-vehicle households traveled in July-August 2020
 - Transit criticality is an index accounts for the multiplicative effect of multiple group membership
 - Transit usage by seniors and people with disabilities will be used for route level trade-off decisions
- The data used in this analysis will be updated as we develop future scenarios and more data becomes available
 - What services are defined as essential can change over time

Overview of Essential Service analysis

Mode	Highly Transit Critical	Less Transit Critical	
High Ridership Potential FY22	Blue Line, Orange Line, Red Line, Green Line (trunk), Mattapan line, most bus routes, Fairmount CR line, Charlestown ferry*	Some bus routes	
Low Ridership Potential FY22	Some bus routes, some Commuter Rail lines	Hingham/Hull ferry, some bus routes, some Commuter Rail lines	

*Incomplete data

- Most of the variation is in commuter rail and bus; trade-off decisions will be based on characteristics of routes/lines/corridors
- Analysis included evaluation for transit propensity based on pre-COVID rider demographics; the routes that retained a high proportion of ridership were overwhelmingly those with above system-average of low-income riders, riders of color, or riders from zero- or low-vehicle households

Heavy and Light Rail

Heavy and Light Rail	Highly Transit Critical	Less Transit Critical
High Ridership Potential FY22	Orange, Blue, Red, Green Line (trunk), Mattapan	
Low Ridership Potential FY22		-

- All lines fall into essential services, but service levels within Service Delivery Policy standards will vary based on demand on each line
- Green Line branches data are incomplete, service levels will vary based on demand by branch

Heavy rail and GL trunk: ~120,000 gate entries on weekdays, 24% pre-COVID (weekdays September 2020 vs September 2019)

Possible Levers:

- Reduce headways to Service
 Delivery Policy
- End service at 12 AM

Service Delivery Policy		Rapid Transit	
	AM & PM Peak	Every 10 minutes	
All other weekday periods Saturday		Every 15 minutes	
Hea (freq	Saturday	Every 15 minutes	
	Sunday	Every 15 minutes	
of e	Weekday	6:00 AM - midnight	
Span of Service	Saturday	6:00 AM – midnight	
N N	Sunday	7:00 AM – midnight	

Ferry

Ferry	Highly Transit Critical	Less Transit Critical
High Ridership Potential FY22	Charlestown* (30% of 2019 Ferry service hours)	
Low Ridership Potential FY22		Hingham/Hull (70% of 2019 Ferry service hours)

*Incomplete data for the Charlestown ferry, analysis will continue

Ferry: ~775 trips on weekdays, 11% of Pre-COVID (weekdays September 2020 vs September 2019)

Possible Levers:

- Eliminate routes
- Reduce frequency



Commuter Rail

Commuter Rail	Highly Transit Critical	Less Transit Critical	
High Ridership Potential FY22	Fairmount Line (4% of 2019 CR service hours)	(0%)	
Low Ridership Potential FY22	Newburyport/Rockport, Middleborough/Lakeville, Providence/Stoughton (34% of 2019 CR service hours)	All others (62% of 2019 CR service hours)	

• Next step is additional analysis at the corridor and station level

Commuter Rail: ~14,500 trips on weekdays, 12% pre-COVID (weekdays September 2020 vs manual counts Spring 2018)

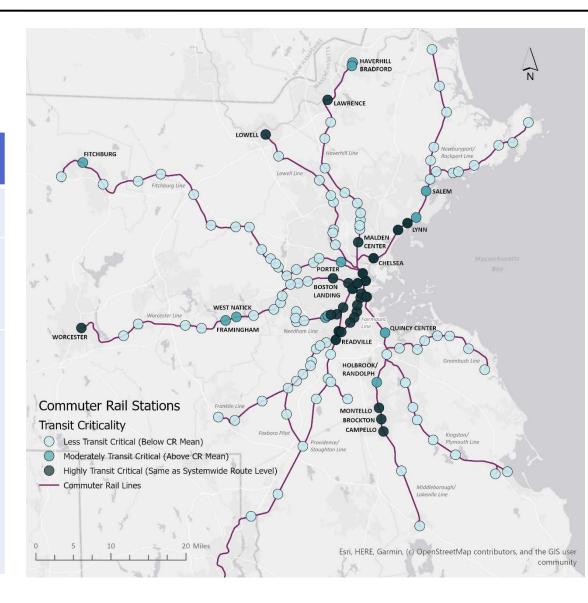
Possible levers:

- Eliminate weekend service on some or all lines
- End weekday service after 9 PM
- Reduce or eliminate midday
 frequency
- Reduce peak frequency
- Station closures

Commuter Rail: Transit-Critical Stops

- Some lines have their transit-critical service at the end of the line
- Others have transit-critical service mid-route
- *Dataset only includes travel in MA, so Providence station is not evaluated but expected to be highly transit critical

Commuter Rail Line	Pre-COVID Riders per Service Hour Retained	Essential Services Classification	
Fairmount Line	21%	High Ridership Potential/ Highly Transit Criticality	
Middleborough/ Lakeville Line	18%		
Newburyport/ Rockport Line	15%	Low Ridership Potential/ Highly Transit Critical	
Providence/ Stoughton Line	14%	inginy hanole official	
Fitchburg Line	8%		
Framingham/ Worcester Line	11%		
Franklin Line	15%		
Greenbush Line	8%	Low Ridership Potential/	
Haverhill Line	8%	Less Transit Critical	
Kingston/ Plymouth Line	15%		
Lowell Line	16%		
Needham Line	12%		
9			



Bus

Bus	Highly Transit Critical	Less Transit Critical
High Ridership	Majority of routes	e.g. 350, 225, 77, 73
Potential FY22	(65% of 2019 Bus service hours)	(20% of 2019 Bus service hours)
Low Ridership	e.g. 4, 7, 18, 43, 55	e.g. 553, 554, 351, 52
Potential FY22	(8% of 2019 Bus service hours)	(8% of 2019 Bus service hours)

- Bus at the route level has the most variation
- Route level changes in all quadrants will consider usage data by people with disabilities and senior cardholders
- Bus routes suspended during COVID or with significant changes during COVID will be evaluated outside of this framework

Possible Levers:

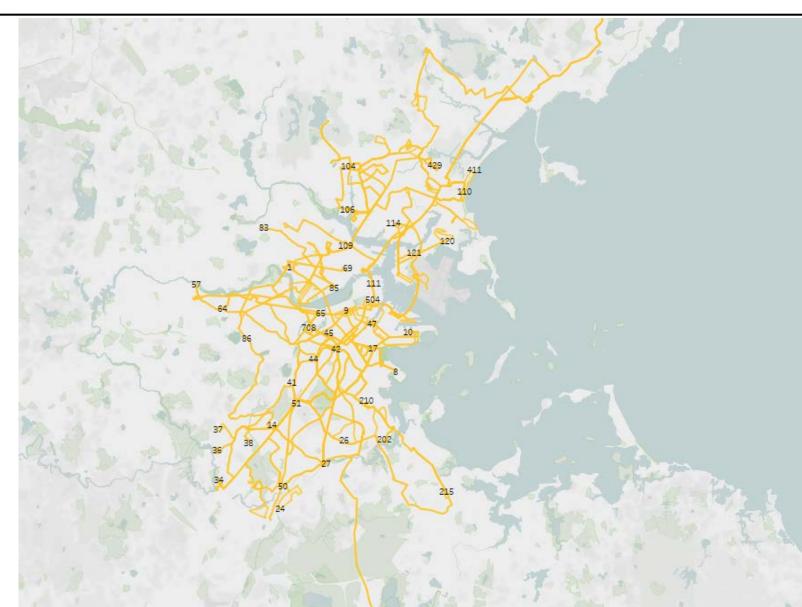
- Reduce frequency & span to Service Delivery Policy for essential routes (top left box)
- Reduce frequency & span below Service Delivery Policy for non-essential routes
- Route eliminations & consolidations for non-essential routes

Bus: 171,000 trips on weekdays, 41% pre-COVID (weekdays September 2020 vs September 2019)

Bus: Essential Service Routes

Essential Bus Routes have high ridership potential and serve highly transit-critical geographies

Additional analysis required to make tradeoff decisions among bus routes within each quadrant

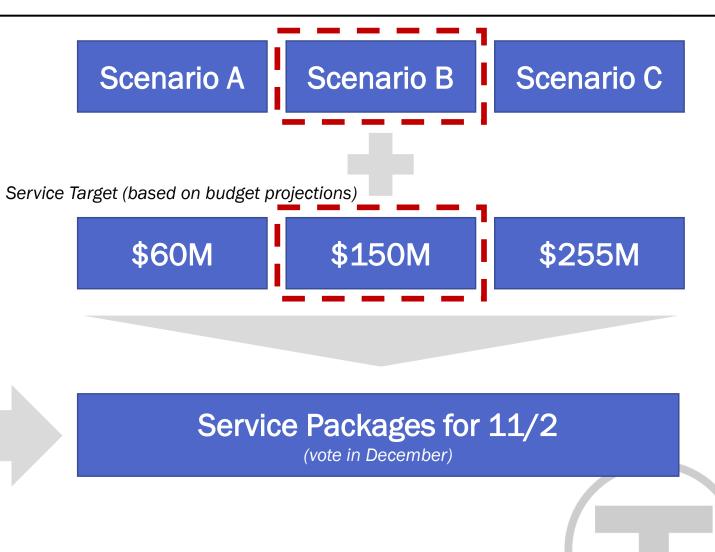


Service Packages for November 2nd

Service Packages

- Commuter Rail span, weekend service, and linespecific changes
- Ferry lines operating
- Heavy Rail headways & span
- Light Rail headways & span
- Major **Bus** changes
- Any **RIDE** implications

Will include detail as possible about any fare or accessibility implications for riders



Service Implementation Timeline

- Bus, light rail, and heavy rail changes can be made quarterly, first changes to take effect ~July 1, 2021
 - Major implementation activities include: Route planning, municipal outreach, scheduling, labor impacts, re-picking work & training, signage incl. stop closures (for bus), customer information
- Ferry and commuter rail changes subject to contract negotiations, could be implemented as soon as Spring 2021
 - *Major implementation activities include:* Scheduling, labor & legal impacts, repicking work, customer information
- Once implemented, it could take months to years to re-add service depending on mode, scale of reductions, actions taken, and financial certainty.

13

 Changes will be permanent and we will build back a network that better serves the region. Statutory and regulatory requirements for a service reduction of more than 10% of revenue vehicle hours

- Title VI service equity analysis for all concurrently proposed changes in the aggregate (implementation dates can vary)
- One or more public hearings
- Review by MBTA Advisory Board
- Decrease shall be the subject of an environmental notification form initiating review pursuant to MEPA

Title VI and MEPA analysis will be done after Board decides on preferred package and will come back to the Board for final approval in February

Forging Ahead External Engagement

- We will be launching a public engagement process for the weeks following today's presentation to engage and seek input from riders and community members on service scenarios.
- The engagement process for Forging Ahead will be:
 - **Transparent** we will share all information needed to provide input
 - Proactive we will reach out to impacted communities
 - **Iterative** we will return to communities when we have more information
 - Accessible we will ensure language access and access to persons with disabilities
- Engagement Strategy:
 - Virtual public meetings
 - Proactive, non-virtual engagement with communities
 - Online feedback tools at www.mbta.com/forgingahead

All engagement will be in accordance with the MBTA Public Engagement Plan.

Forging Ahead Engagement Audiences

Multipronged coordinated strategy for external and internal audiences

- Internal
 - MBTA workforce and unions
- External
 - Riders
 - Advocates
 - Business community
 - Elected officials
 - Municipal partners



Phase 1 Essential Services: October 5 - October 30

- Focus on explaining our process to prioritize essential services
- Reaching out to advocates, business community, elected officials to provide briefings and get feedback
- Feedback report back to the FMCB on November 2nd

Phase 2 Service Packages: November 2 - December 4

- Virtual public meetings, including an official public hearing
- Outreach directly to community organizations and the public
- Online feedback tools
- Feedback report back to the FMCB on December 7th

MBTA Community Liaisons

- Liaisons will supplement virtual public engagement with tactical physical distanced community outreach:
 - street teams,
 - Working directly with partner organization to reach their members
 - attending community events
- The group will also ensure language access by reaching out to riders directly in various languages.
- The goal of the Community Liaison program is to invest resources in community engagement to ensure we are hearing from our riders who are least likely to engage virtually.
- Feedback received through the Community Liaison program will be shared directly with MBTA leadership and decision-makers.
- Learn more about our new Community Liaisons at www.mbta.com/forgingahead.

Forging Ahead Online Feedback + Public Outreach

Online Feedback

- Online tools will also be made available for riders to give the MBTA direct feedback on Forging Ahead service scenarios.
- Feedback from these online tools will be provided directly to MBTA leadership and decision-makers

Public Outreach

- We will use various tools at our disposal to notify riders of these opportunities to provide feedback:
 - Digital station screens
 - On-vehicle and in-station print media
 - Newspaper ads
 - Website and social media
 - Community partners (community groups, transportation advocates, accessibility organizations, municipal partners)

Timeline for Service, Budget, and Capital Decisions

October 19 (Joint Board)	November 2 (FMCB)	November 16 (Joint)	December 7	May 15, 2021	July 1, 2021
 Budget: Revenue reprojections and FY22 update Scenarios: FY 22 scenarios 	 Budget: Return to the board to detail September results (monthly recurrence) - FY21/FY22 target progress Service Planning: Detailed service packages Capital Planning: Present recommended reprioritization to accommodate shift of 5307 funds to operating and other reductions 	 Additional updates as needed 	 Service Planning: Board decision on service level packages 	• Budget: Preliminary itemized budget May 15, 2021 and final itemized budget on June 15, 2021	• Budget: FY22 begins and three- pronged approach implemented

Appendix

Appendix: Service Delivery Policy - Frequency & Span

		Commuter Rail	Ferry	Rapid Transit	Bus – Key Bus Routes	Bus – Local Routes*
	AM & PM Peak	3-4 trips in peak direction	3 trips in peak direction	Every 10 minutes	Every 10 minutes	Every 30 minutes
Frequency	All other weekday periods	Every 3 hours in each direction	Every 3 hours	Every 15 minutes	Every 15-20 minutes	Every 60 minutes
Frequ	Saturday	Every 3 hours in each direction	-	Every 15 minutes	Every 20 minutes	Every 60 minutes
	Sunday	-	-	Every 15 minutes	Every 20 minutes	Every 60 minutes
vice	Weekday	7:00 AM - 10:00 PM	7:00 AM – 6:30 PM	6:00 AM - midnight	6:00 AM - midnight	7:00 AM – 7:00 PM
n of Service	Saturday	8:00 AM - 6:30 PM	8:00 AM - 6:30 PM (seasonal)	6:00 AM – midnight	6:00 AM – midnight	8:00 AM - 6:30 PM*
Span	Sunday	-	-	7:00 AM – midnight	7:00 AM – midnight	10:00 AM - 6:30 PM*

*Commuter or Community Route Standard not shown; Minimum span only standard for high-density areas. There is no span standard for low-density areas on