

Better Bus Project Update

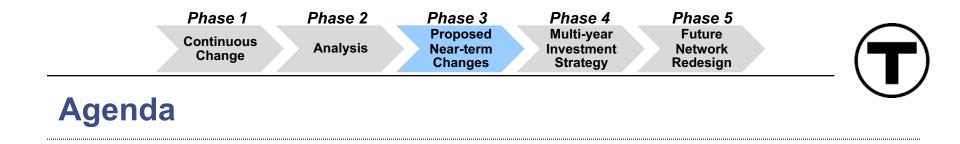
FMCB, May 6, 2019



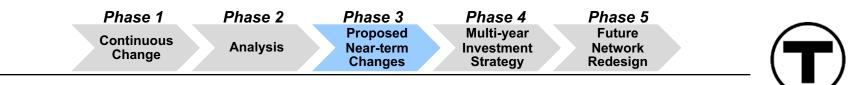


Better Bus Project Process Map: Update

	Continuous Change	Analysis	Proposed Near-term Changes	Multi-year Investment Strategy	Future Network Redesign
	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Products/ Actions	 ✓ Early Morning Pilot ✓ Late Night Pilot ✓ SL3 Service Expansion ✓ Dedicated Bus Lanes ✓ Transit Signal Prioritization ✓ Signal Optimization ✓ Addition Resources ✓ Dropped Trip Task Force ✓ Quarterly Goals 	 ✓ 1nd Round Public/ Stakeholder/Ope rator Outreach ✓ Review existing service ✓ Jan 28: Release State of the System Report ✓ Jan 28: Release Market Analysis 	 ✓ Ongoing: Municipal and State Officials Outreach ✓ Jan 28: Release near-term service proposals ✓ Jan 28 to Mar 13: 2nd Round Public/ Stakeholder Outreach ✓ Apr: FMCB Vote: Go/No-Go Early-May: Build new schedules & routes Fall: Begin implementation 	 ✓ Jan 28: Release Route Profiles ✓ Feb 25: Discuss Multi-year Investment Strategies for FY20 ✓ Mar: Finalize FY20 resource request ✓ Apr: Selection of FY20 investment level by the FMCB Board May: Discuss peak expansion Summer: Begin implementation 	 Nov: RFP posted & Internal Task Force convened to develop network level goals/metrics May: External Task Force convened FY20+21: Network Alternatives & Evaluation FY21 onwards: Implementation & roll-out



- Review Equity Analysis findings and seek Board acceptance of the findings
- Review and discuss Key Performance metrics for monitoring impact and success of Better Bus Project proposals
- Review process for incorporating additional public feedback into future quarterly changes and/or Network Redesign



Recap: Equity Analysis context

- The MBTA is required by the FTA to evaluate the impacts on minority and/or low-income populations when there is a proposed "major" service change to any fixed-route services
- There are multiple factors that can elevate a service change to be considered a "major" service change, and once 'triggered', an equity analysis must consider concurrently all proposed changes in the aggregate
- An equity analysis will evaluate the degree of adverse effects, and evaluate if the effects of the major service change may result in disparate and/or disproportionate impacts on minority or low-income populations
- For major service changes, the **MBTA's threshold** for determining adverse effects cause disparate/disproportionate impacts is **20%**

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Equity Analysis outcome for Near-Term proposals & 45 additional Operators

Equity analysis based on revised package of BBP Proposals finds no **disparate impact/benefit** or **disproportionate burden/benefit**

Equity Analysis now includes **impact of 45 additional Operators** as being discussed and implemented concurrently

	Revenue Vehicle Hours (in weekly RVH)	Route Length (in weekly Miles)
Disparate Impact/Benefit		
Absolute Change	No Disparate Benefit	No Disparate Impact
(Minority / Nonminority)	Ratio: 665 / 550 > 80%	Ratio: -428 / -669 < 120%
Relative Change	No Disparate Benefit	No Disparate Impact
(Minority / Nonminority)	Ratio: 3.1% / 2.1% > 80%	Ratio: -6.3% / -6.6% < 120%
Minority Share of Change /	No Disparate Benefit	No Disparate Impact
Minority Share of Existing	Ratio: 55% / 45% > 80%	Ratio: 39% / 40% < 120%
Disproportionate Burden/Benefit		
Absolute Change	No Disproportionate Benefit	No Disproportionate Burden
(Low-Income / Non-Low-Income)	Ratio: 549 / 666 > 80%	Ratio: -426 / -671 < 120%
Relative Change	No Disproportionate Benefit	No Disproportionate Burden
(Low-Income / Non-Low-Income)	Ratio: 2.9% / 2.4% > 80%	Ratio: -6.5% / -6.4% < 120%
Low-Income Share of Change /	No Disproportionate Benefit	No Disproportionate Burden
Low-Income Share of Existing	Ratio: 45% / 41% > 80%	Ratio: 39% / 39% < 120%



Key Performance Metrics to monitor Better Bus Project proposals

Key Performance Metrics

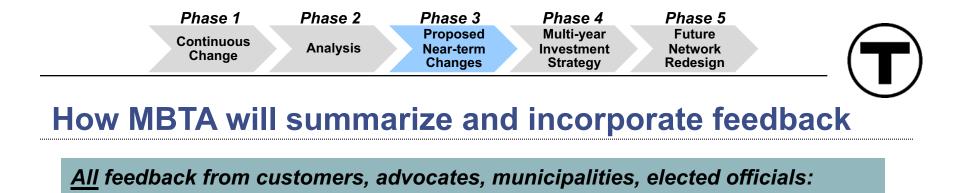
- Track implementation status of 36 proposals and 45 new bus operators (as well as impact of any priority infrastructure)
- Use data to measure system-level performance and individual route proposal performance:
 - SDP Measures
 - Other supporting metrics (e.g. run-time deficits, ridership)

Evaluation Questions

- Understand if we accomplished our goal in implementing the proposal
- Assess impacts and if additional changes are warranted

Tentative Reports to the FMCB

- Implementation: September 2019 & December 2019
- Performance: May 2020 & January 2021*



Comments on specific proposed route changes

Comments on other routes & service overall

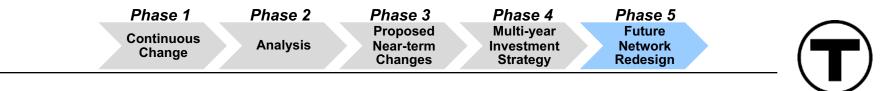
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Better Bus Project – Phase 3 summary document

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Targeting publishing mid-May

Service Planning team: Quarterly changes as part of continuous change Network Redesign team: Potential demonstrations / new service pilots



Network Redesign demonstrations / pilots

- **Network Redesign demonstrations** are different than External Transit pilots in that they:
 - Do not require an external sponsor
 - Do not follow same timeline (may take less or more time to refine and review)
 - May pilot new service and/or other changes (e.g. bus lanes, routing changes, model corridors, etc.)
- Concepts for Network Redesign demonstrations will come from multiple sources and the process to review, design, and implement is being developed to respond to FMCB's March 25 discussion
 - Example sources: Origin/Destination data analysis, deferred BBP proposals and public input, internal ideas, etc.

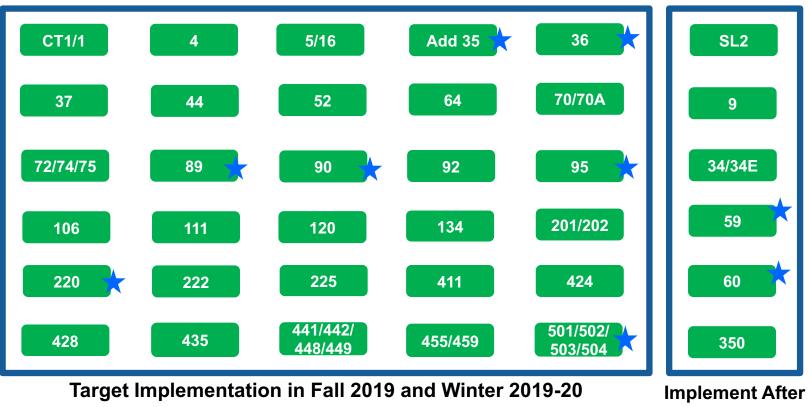
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Key Next Steps

Date	Meeting/Deliverable Release		
Dec 10	FMCB Presentation – Part 1 Work Plan Review, Overview of State of System and Market Analysis		
Jan 14	FMCB Presentation – Part 2 Overview of Near-term Change Proposals		
Jan 28 to Mar 13	 Kick off Round 2 of public engagement Release Market Analysis Release State of the Bus System Report Release Near-term Change Proposals Release Route Profiles 		
Feb 11	FMCB Presentation – Part 3 Discuss Multi-year Investment Strategie for FY20		
March	Action: FMCB Propose FY20 Budget		
April	Action: FMCB Vote on Package for Near-Term change proposals		
Мау	FMCB Presentation – Draft FY20-24 CIP		
June	Action: MassDOT Board vote on FY20-24 CIP		



Appendix: Final proposal package



Resolving Contingency



Appendix: Details of Revised Proposals

Add 35	Would coordinate implementation with Route 34, 52 changes (serving Dedham Mall at Stop & Shop bus stop location only). Not included in the original list of 47 proposals.
36	Shorten most trips from Millennium Park to VA Medical Center due to school closure
59	Preserve some lifeline service to Eliot St
60	Preserve Chestnut Hill Mall stop; need new stop at/near Chestnut Hill Square
89	Preserve some peak and school service at Clarendon Hill
90	Preserve direct connection to Sullivan
95	Test potential demand by alternating trips between Arlington Center & Playstead Rd.
220	Preserve some lifeline service to Hingham Center Loop
501/502/ 503/504	Implement only during PM peak when 501/503 serve both sides of Newton Corner



Appendix: Details of contingencies to be resolved

SL2	Work with Massport to improve lighting, safety, and accessibility of path of travel from 88 Black Falcon to Drydock Ave @ Black Falcon Ave stop
9	Need for relocated bus stop, multiple options under review in order to mitigate safety concerns with stop on W. Broadway
34/34E	Requires coordination with Legacy Place
59	MassDOT will soon be starting a reconstruction project of Needham Street. Necessary to understand full implications of project before deciding to implement proposal now or wait until the project is completed in 2022
60	Requires coordination for a new bus stop to serve Chestnut Hill Square
350	City of Burlington must build a new sidewalk to allow for a bus stop



Appendix: Common Themes Heard via Public Feedback

- Reliability and frequency most demanded metrics
- Accessibility should not be lost, but either met or improved, and busway access should be maintained as much as possible
- In favor of additional connectivity, but not always with trade-off of less frequency
- Mostly in favor of proposed routing changes if frequencies could be maintained or improved
- Key to **maintain connectivity to high-demand destinations** like hospitals, malls, and transit hubs
- Generally unwilling to walk greater distances in exchange for improved frequencies, citing safety, accessibility, and time as concerns
- Many riders valued their one-seat rides and **opposed being required to make a transfer**, even to high-frequency services
- Strong desire to **consolidate bus stops**



Appendix: Outreach since January 28

Between Open Houses, Street Teams and MBTA Community Meetings, staff had over 2,500 in-person interactions

Type of Event	Number of Meetings
Community Meetings	8
Open Houses (at stations)	7
Street Teams (at stations)	6
Briefings	50+

Online Feedback

Type of Feedback	Number of Comments
Online Feedback Form	2,854
Emails/Letters	284