

Welcome!

Thank you for joining us. This is the **third Public Meeting** on the **Silver Line Extension** Alternatives Analysis. Please settle in!

The meeting will start shortly.



SL – Extension

Alternatives Analysis

Public Meeting #3

December 13, 2022



Diversity and Civil Rights

English

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Spanish

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Chinese

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Welcome

English

Thank you for joining the meeting! We appreciate your participation.

This meeting will be recorded so that it can be shared with the people that were unable to join.

All participants will be muted upon entry so that only the presenters can be heard.

Spanish

¡Gracias por atender esta reunión! Agradecemos su participación.

Esta reunión será grabada para poder compartir con los que no pudieron asistir.

Los participantes están silenciados al entrar a la reunión para que solo se pueda oír a los presentadores.

Chinese

感谢您参与此会议！

本次会议将会被录像，以便我们把它分享给没能来参加的人。

所有参与者在进来时都会被静音，以便于演讲者能被听到。

Interpretation

English

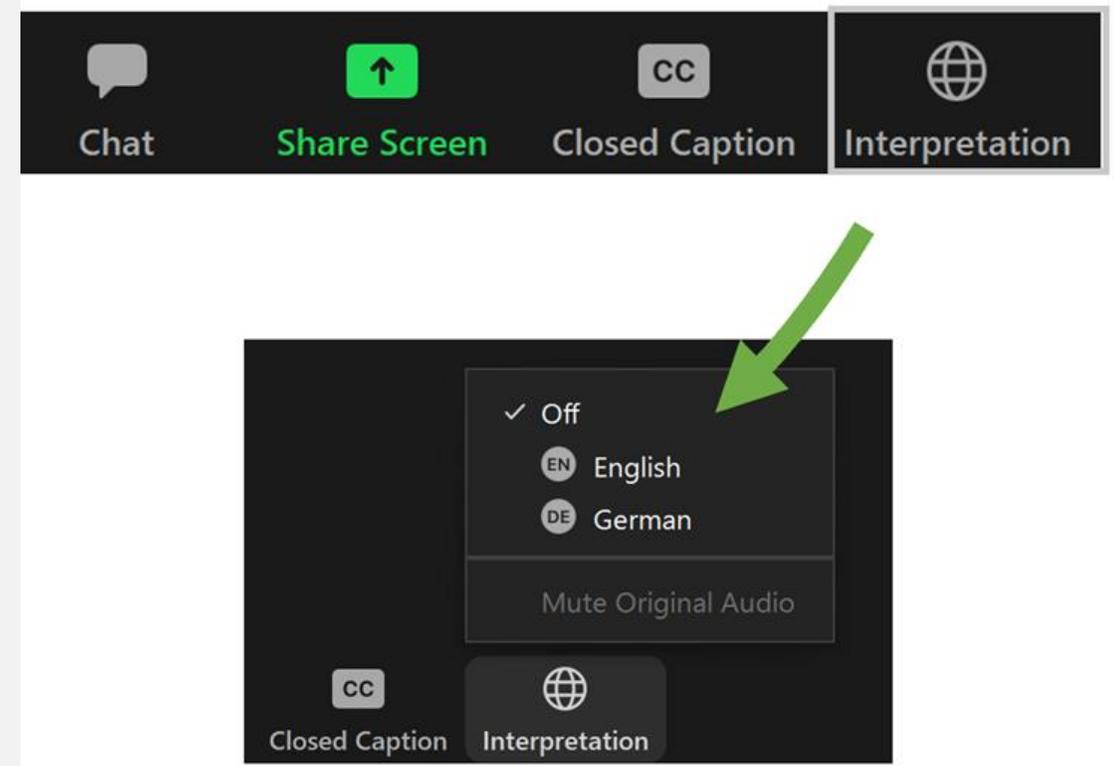
We offer interpretation during this meeting. In your meeting/webinar controls, click Interpretation (the small globe icon) and click the language that you would like to hear.

Spanish

Ofrecemos interpretación en español durante esta reunión. Para escoger el audio en inglés o en español tendrá que hacer clic en el botón de Interpretación, el cual tiene un ícono de un globo pequeño. Cuando haga clic en Interpretación, por favor escoja el idioma que desea escuchar.

Chinese

我们本次会议期间提供口译服务。在您的会议/网络研讨会的控件中，单击口译（小地球图标），并单击您想听到的语言



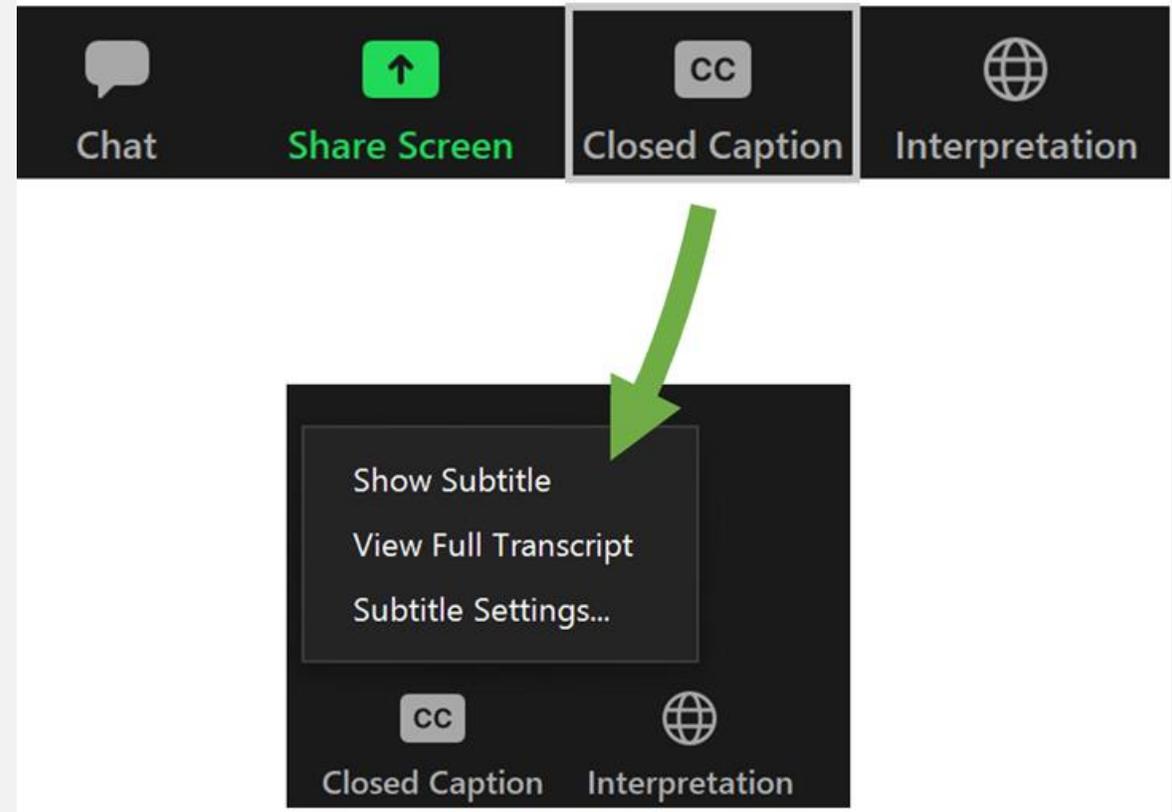
Captioning

You can view closed captions by clicking the **Closed Captions** feature and selecting from the options shown.

Show Subtitle will display a caption at the bottom of the screen.

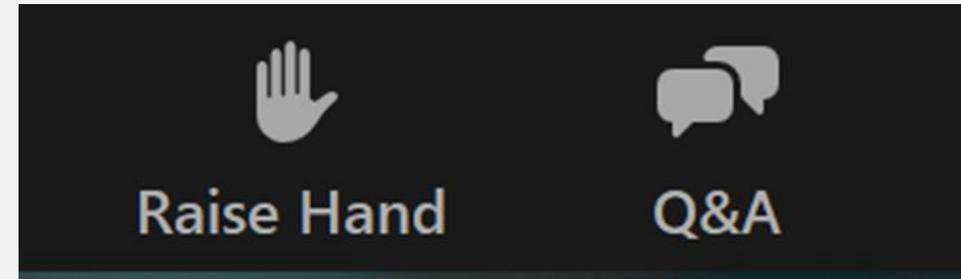
View Full Transcript will display the meeting's audio transcription in a window to the right.

To adjust the caption size, click the upward arrow next to **Start Video / Stop Video**. Click **Video Settings** then **Accessibility**. Move the slider to adjust the caption size



Submit a Question or a Comment

- To submit a question, click the **Q&A** icon at the bottom of the window. When Q&A window pops up, type your question or comment in the comment box.
 - If you want to make a comment during the meeting, please feel free to use the **Chat** feature. It will be open during the meeting.
- If you have a technical problem in the meeting, please share your issue using the **Q&A feature** at any point during the meeting, and we will respond as quickly as possible.

A white rounded rectangular form. At the top, it contains the text 'What's your favorite candy?'. Below the text is a large empty text input area. At the bottom left, there is a checked checkbox followed by the text 'Send anonymously'. At the bottom right, there are two buttons: 'Cancel' and 'Send'.

TONIGHT'S AGENDA

01 | Welcome

02 | Project Update

03 | Evaluation Overview

04 | Evaluation Results

05 | Next Steps

Meeting Purpose

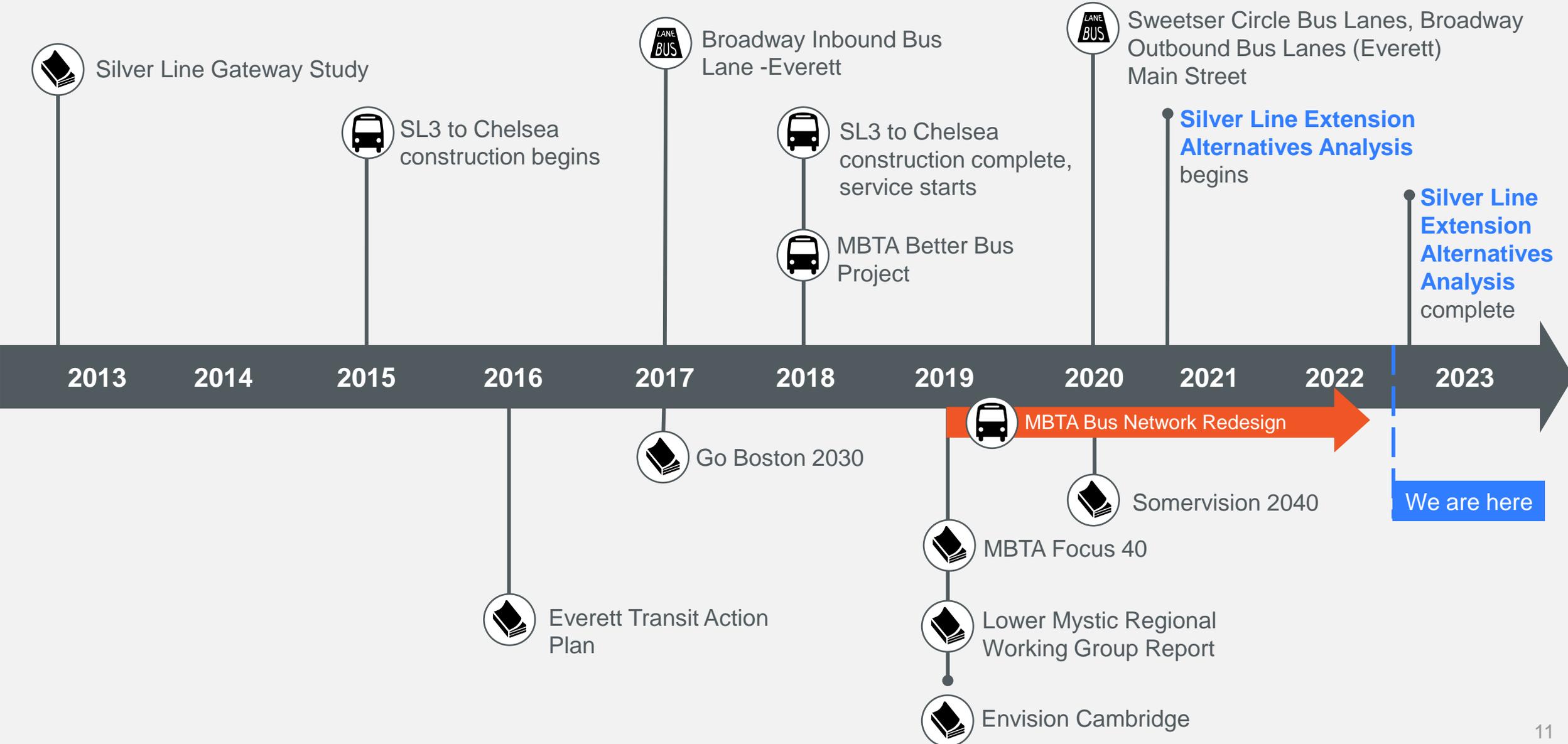
Tonight, we will share with you the results of our alternatives evaluation process, talk about next steps for the study, and get your feedback.

Project Update

Project Purpose

The **purpose** of the Silver Line Extension Alternatives Analysis is to **assess the feasibility, utility, and cost** of various alignment and service frequency options of an extension of the Silver Line, providing **high quality transit** from Chelsea through Everett and on to Somerville, Cambridge and/or Boston.

Context and Project History



Project Schedule



Public and Stakeholder Outreach

★ Working Group Meetings

★ Public Information Meetings

● Other Public Outreach

We Are Here

Since the Spring, the Silver Line Extension team has:

- Coordinated with the Bus Network Redesign process on our timeline and assumptions
- Developed a set of shortlisted ideas based on feedback received from stakeholders and the public
- Evaluated these ideas against our project's goals and objectives
- Engaged with the communities of Everett, Chelsea, and Somerville through in-person events
- Opened a new Online Feedback Form (still open and available at mbta.com/slx)

Evaluation Overview

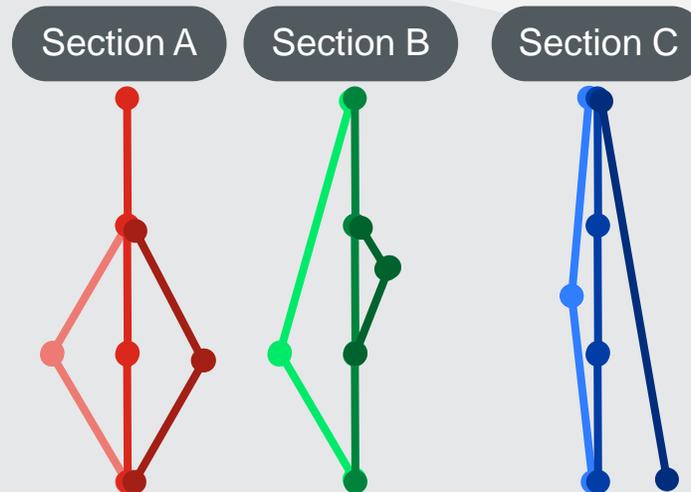
Project Evaluation Process

Screening



Review a wide host of ideas and remove all those that don't meet the project's purpose

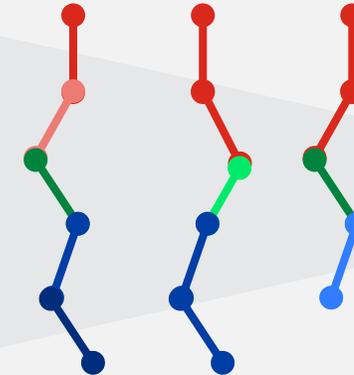
Tier 1 Evaluation



Test different alignments within each section

Tier 2 Evaluation

Entire Route



Test best alignments as complete route

We are here

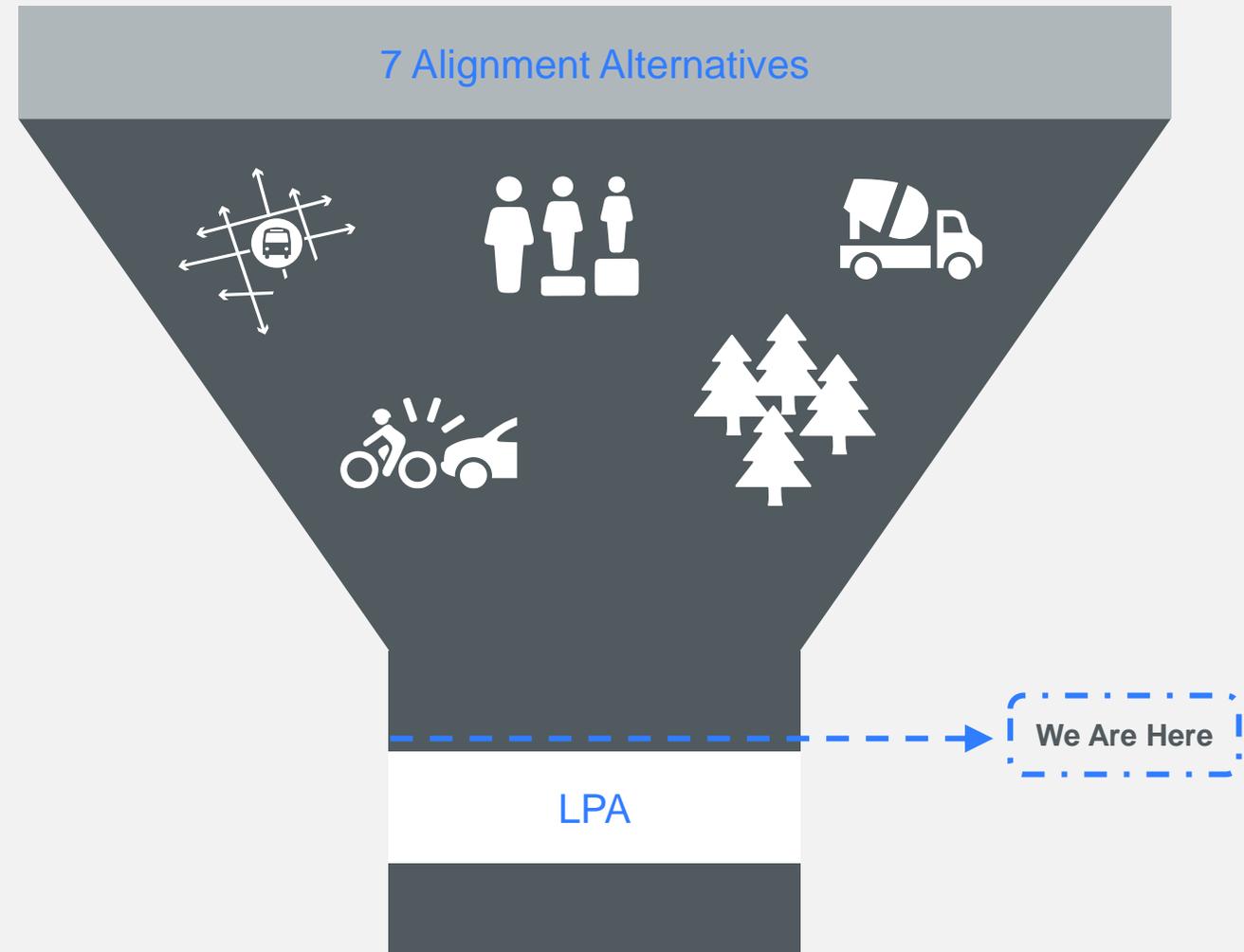
LPA

NOTE: Alignments shown above are illustrative, and not intended to represent any specific alignments!

What is the Tier 2 Evaluation?

The Tier 2 evaluation looked at 7 complete alignment and service concepts. It featured a detailed review of these alternatives against our **5 goal areas**.

Tonight we present our results. We do not have recommendations at this time. We anticipate making draft recommendations in Winter 2023.



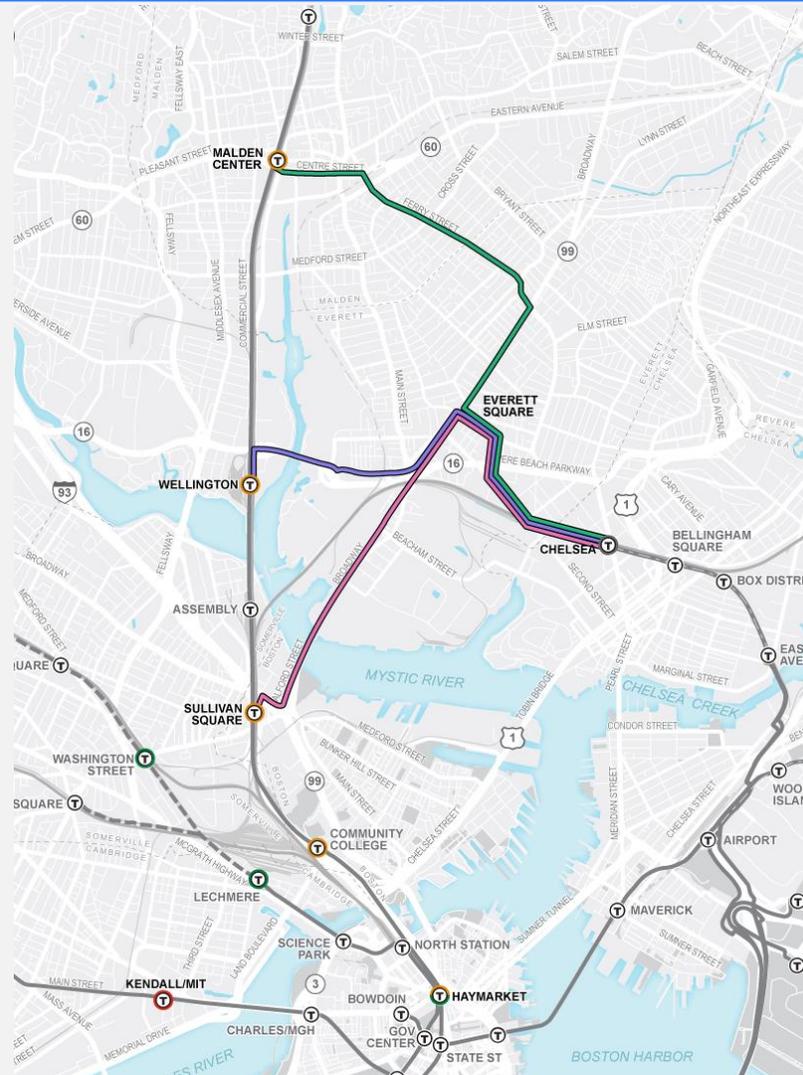
We Have Two Groupings of Alternatives

SL3 Extensions:

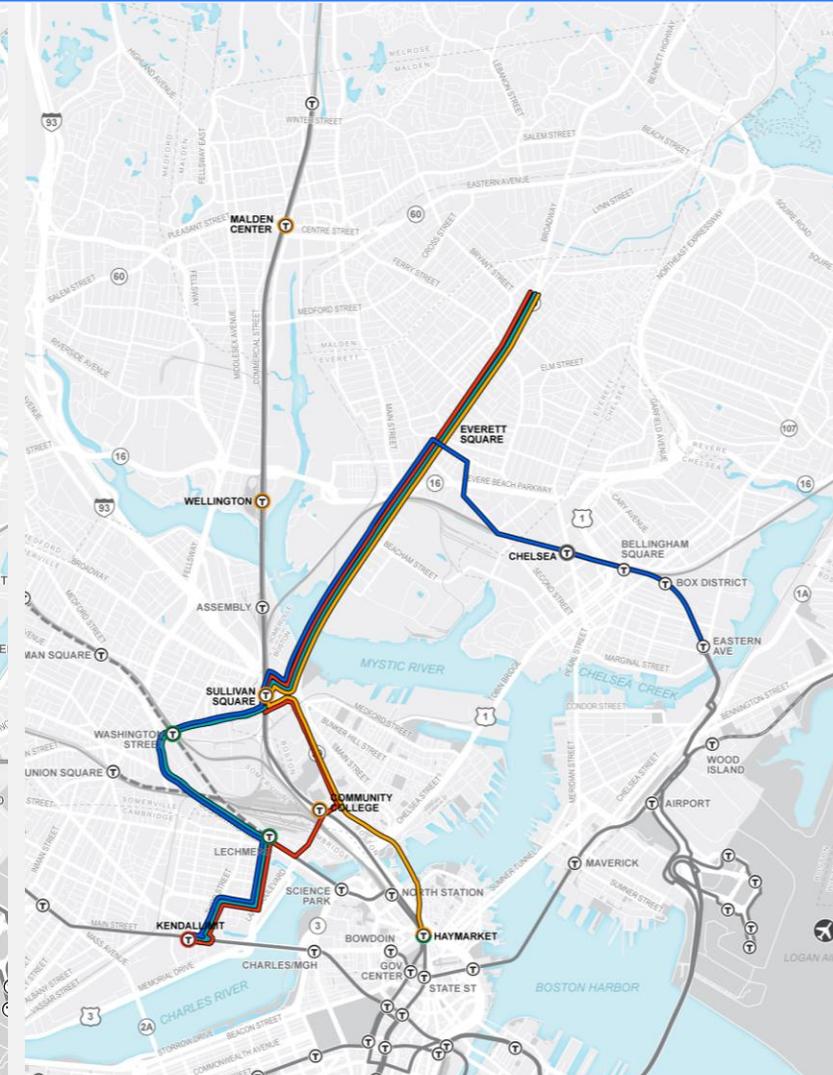
- **Alternative 1:** to Malden Center
- **Alternative 2:** to Wellington
- **Alternative 3:** to Sullivan

SL6 New Silver Line Service:

- **Alternative 4:** SL6 to Kendall *via* Sullivan and McGrath
- **Alternative 5:** SL6 to Kendall *via* Rutherford and Gilmore
- **Alternative 6:** SL6 to Downtown *via* Rutherford
- **Alternative 7:** SL6 to Kendall *from* Chelsea *via* Sullivan and McGrath

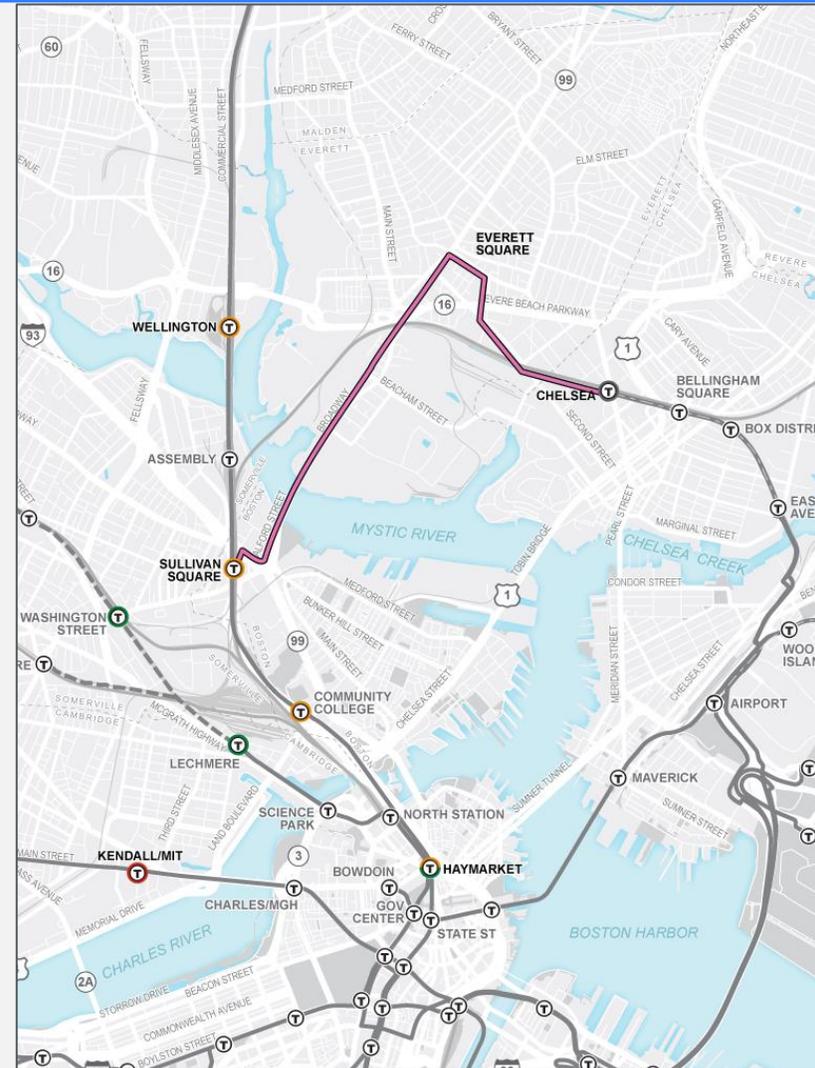
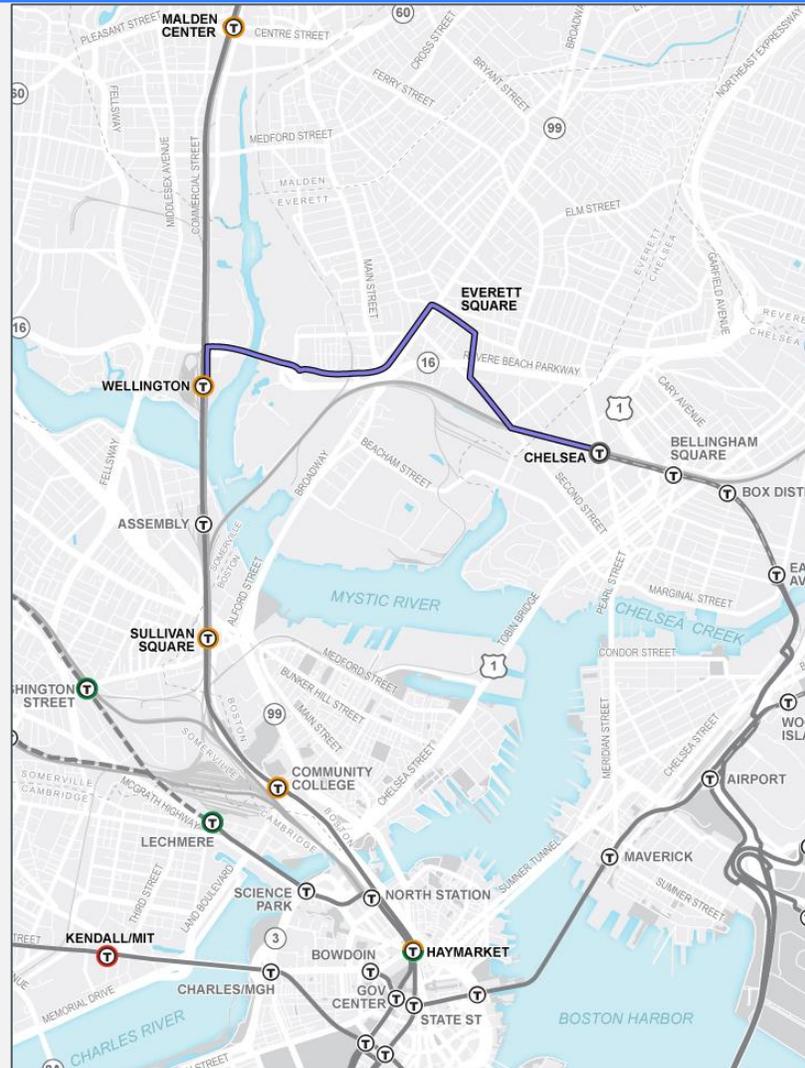
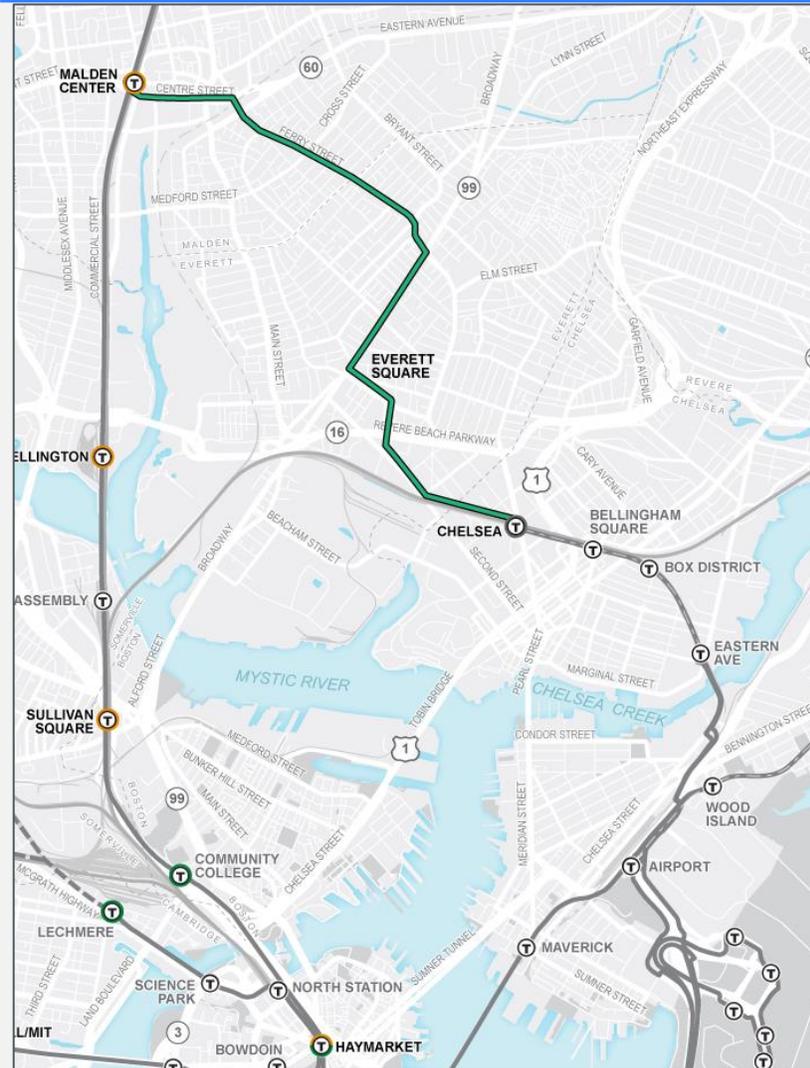


SL3 Extension Alternatives



SL6 Alternatives

SL3 Alternatives Extend to the Orange Line

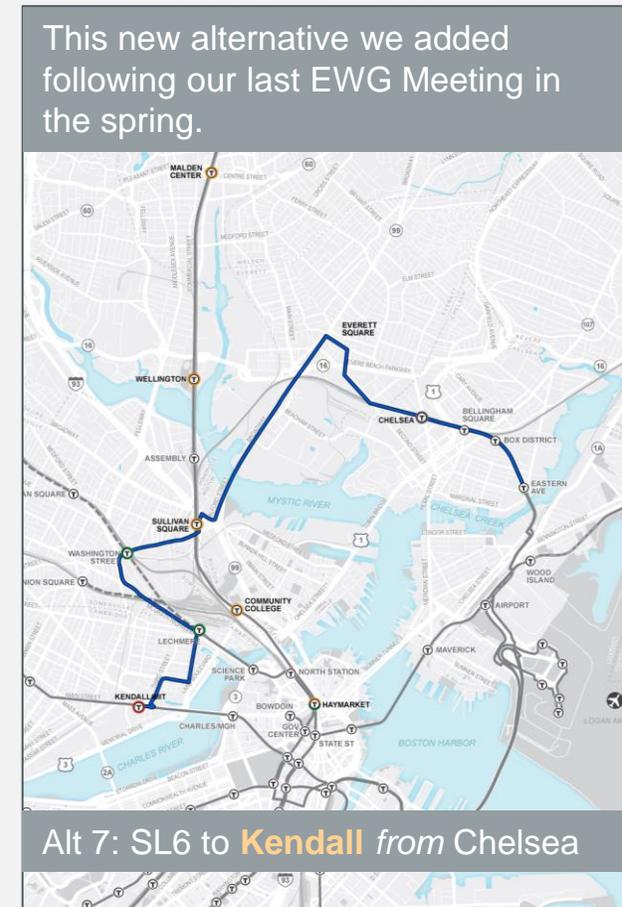
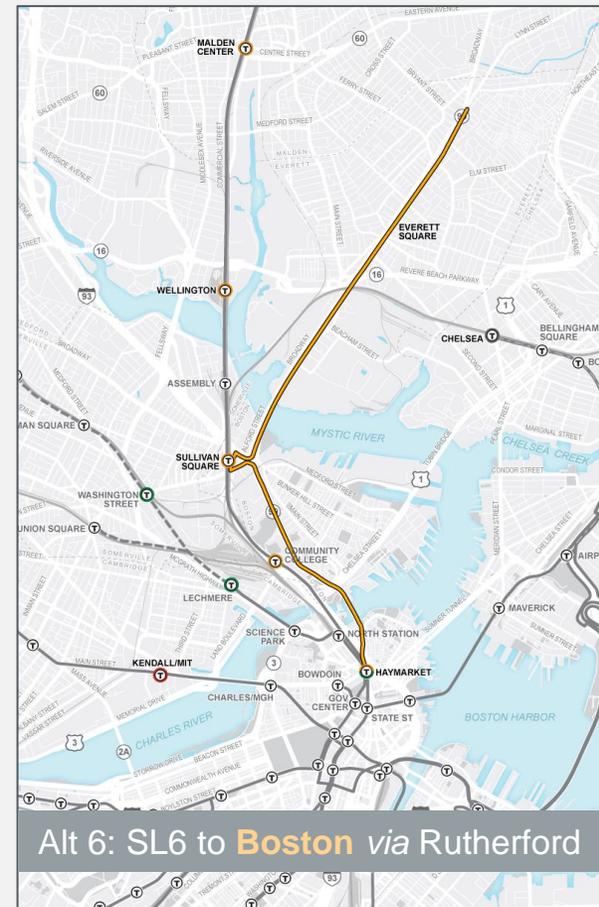
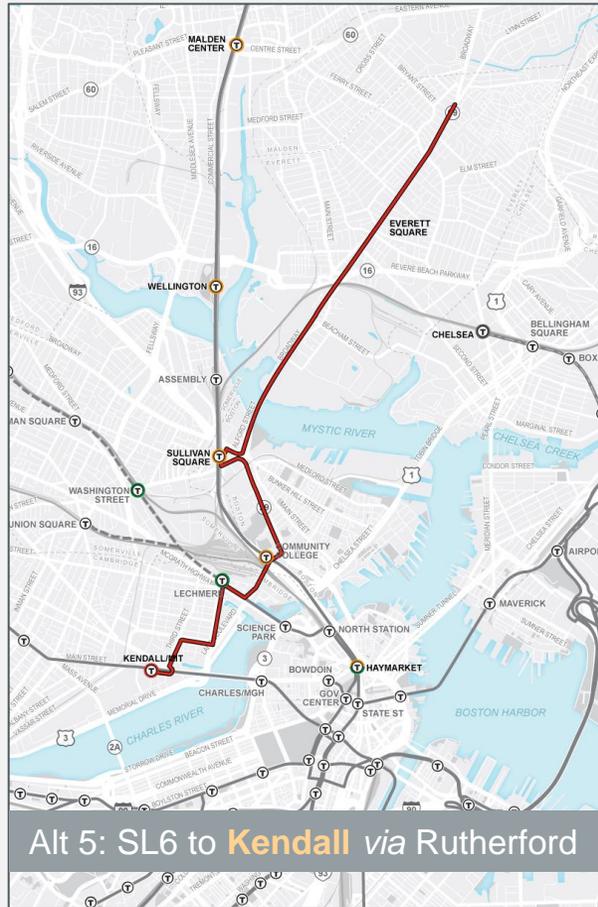
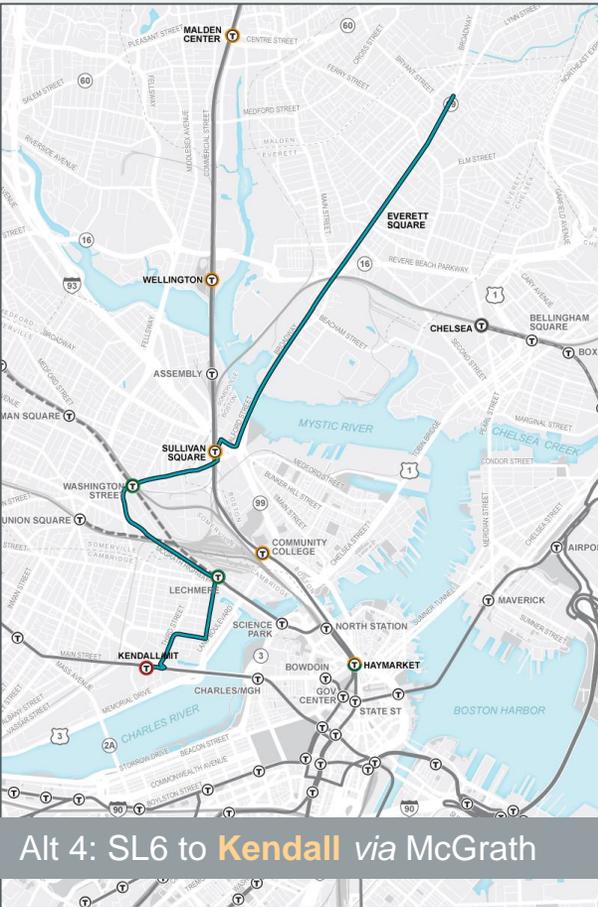


Alt. 1: SL3 to **Malden Center**

Alt. 2: SL3 to **Wellington**

Alt. 3: SL3 to **Sullivan**

SL6 New Service Alternatives



This new alternative we added following our last EWG Meeting in the spring.

NOTE: SL6 Alternatives 4, 5, and 6 also assume an extension of SL3 to Everett Square. Alternative 7 includes this as part of its primary alignment, though it begins at Eastern Avenue in Chelsea to avoid the requirement for any Chelsea-originating trips to transfer at Chelsea station.

Goals and Objectives

Goals and Objectives provide the framework that guides the study

They help us know when we have been successful

Evaluation criteria nest within the goals and objectives, and help us understand which alignments are more effective than others

Our Goals and Objectives must be consistent with the goals and visions laid out by each community within the study area as well as the missions of MassDOT and the MBTA

Our Goal Areas

The major themes that guide our work



Expand Mobility
and Access



Advance Equity



Improve Safety



Support Climate
Change
Resilience and
Sustainability



Advance
Feasible and
Implementable
Solutions

Tier 2 Metrics



Expand Mobility and Access

- Total daily ridership
- Access to jobs
- Comparison of transit to drive time
- Affordable housing access
- Potential for transit-oriented development



Advance Equity

- Total daily ridership for equity population
- Access to jobs for equity population
- Reduction in bus delay for routes
- Whether the alternative serves top equity travel flows



Improve Safety

- Connection to existing or planned pedestrian network
- Connection to existing or planned bicycle network



Support Climate Change Resilience and Sustainability

- Change in transit mode split
- Change in greenhouse gas emissions



Advance Feasible and Implementable Solutions

- Ability to phase over time
- Ability to include as part of other efforts upcoming or currently underway
- Extent of transit priority
- Cost effectiveness

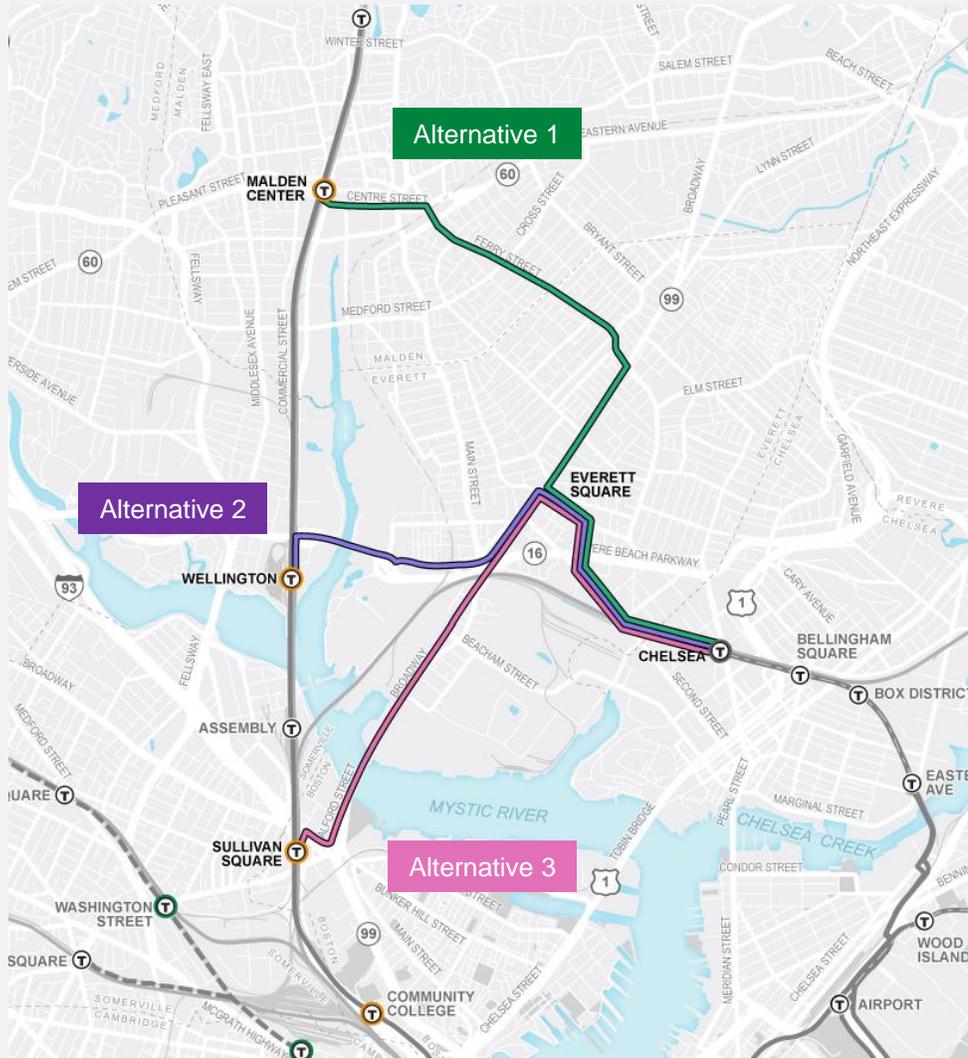
Evaluation Results

We want to hear from you

Tell us what you think about the proposed alternatives by **scanning the QR code** or by visiting **mbta.com/sixfeedback**

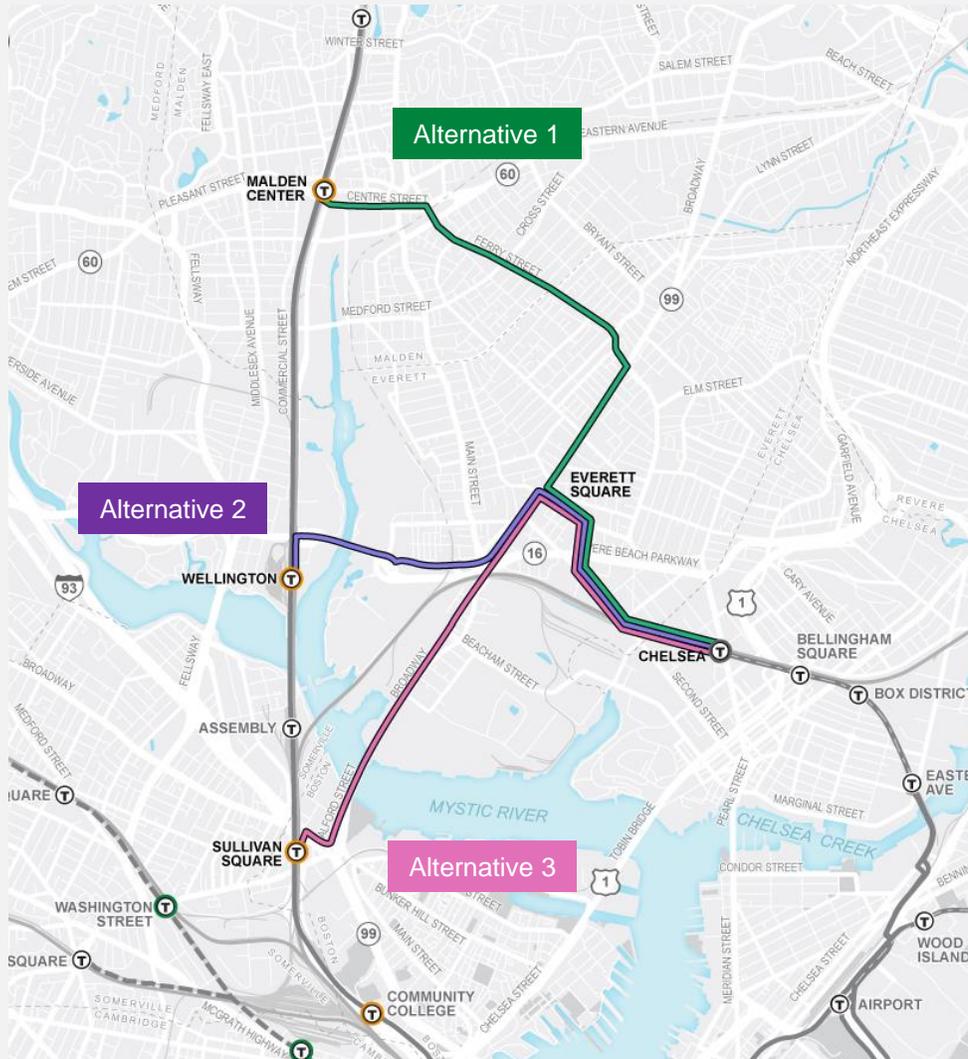


Key Findings: All SL3 Extension Alternatives



- All alternatives increase Silver Line ridership by a lot (between a 90% and 150% increase compared to the future no-build)
- All alternatives increase the extent of bus transit priority, especially between Chelsea station and Everett Square
- The SL3 can be extended to the Orange Line with its existing fleet

Key Findings: All SL3 Extension Alternatives

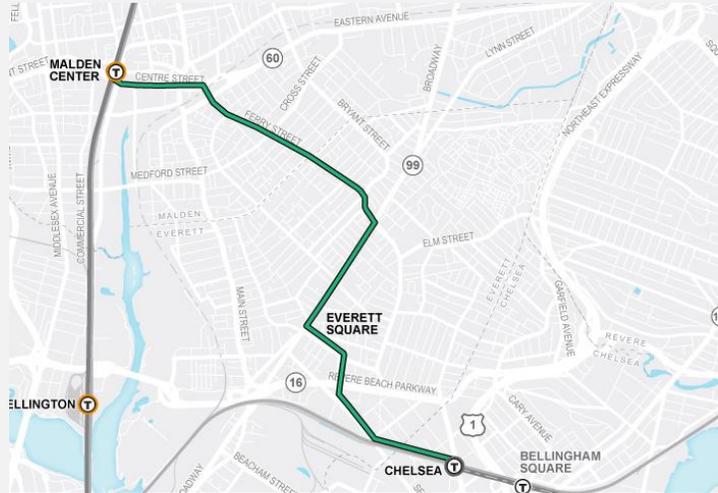


- The capital investment that goes into Silver Line Extension is expected to improve safety along the alignment and at stations
- Each alternative provides access to a tremendous number of jobs in the peak hour and at midday
- Transit mode share did not vary greatly across alternatives

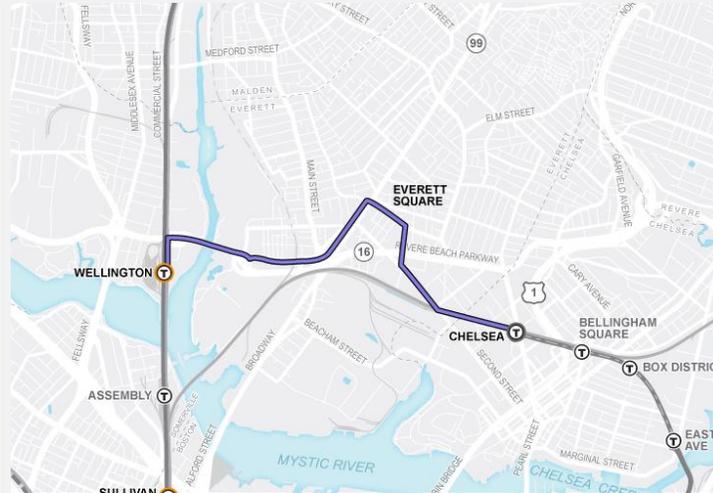
Results by Alternative

Goal Area	Alternative 1	Alternative 2	Alternative 3
	SL3 to Malden Center	SL3 to Wellington	SL3 to Sullivan
Expand Mobility and Access	Very Good	Good	Very Good
Advance Equity	Good	Good	Very Good
Improve Safety	Neutral	Neutral	Neutral
Support Climate Change Resilience and Sustainability	Neutral	Neutral	Neutral
Advance Feasible and Implementable Solutions	Good	Good	Very Good

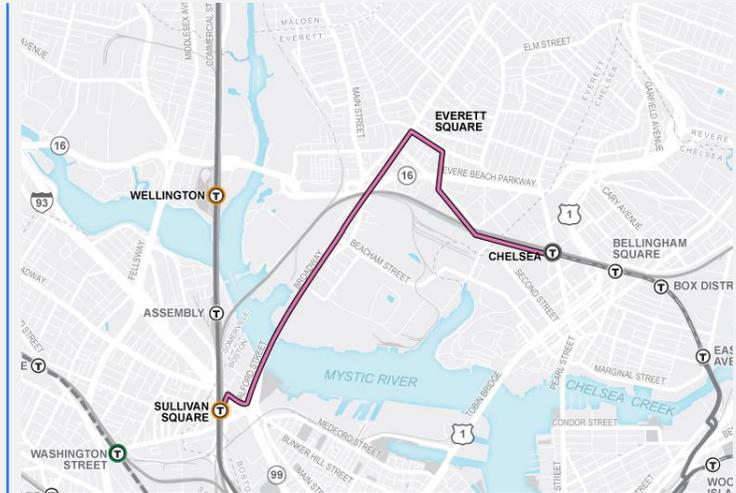
Results by Alternative



Alt. 1: SL3 to Malden Center



Alt. 2: SL3 to Wellington



Alt. 3: SL3 to Sullivan

Metrics where these alternatives perform well

- Total ridership
- Serving travel patterns most used by transit critical populations

- Cost-effectiveness

- Total daily riders
- Transit travel time ratio
- Extent of transit priority
- Reduction in bus delay
- Cost-effectiveness

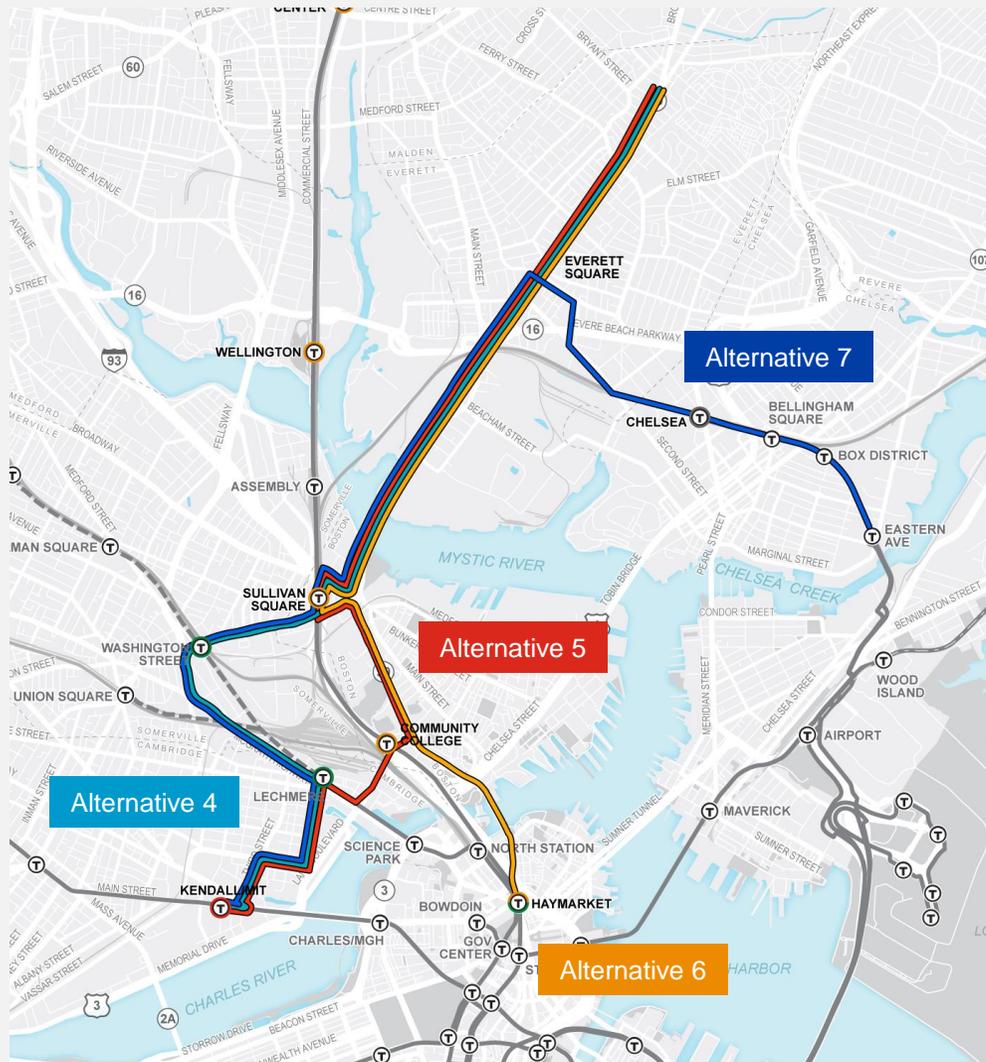
Metrics where these alternatives do not perform well

- Transit travel time ratio
- Extent of transit priority
- Cost-effectiveness

- Total daily riders
- Transit travel time ratio
- Extent of transit priority

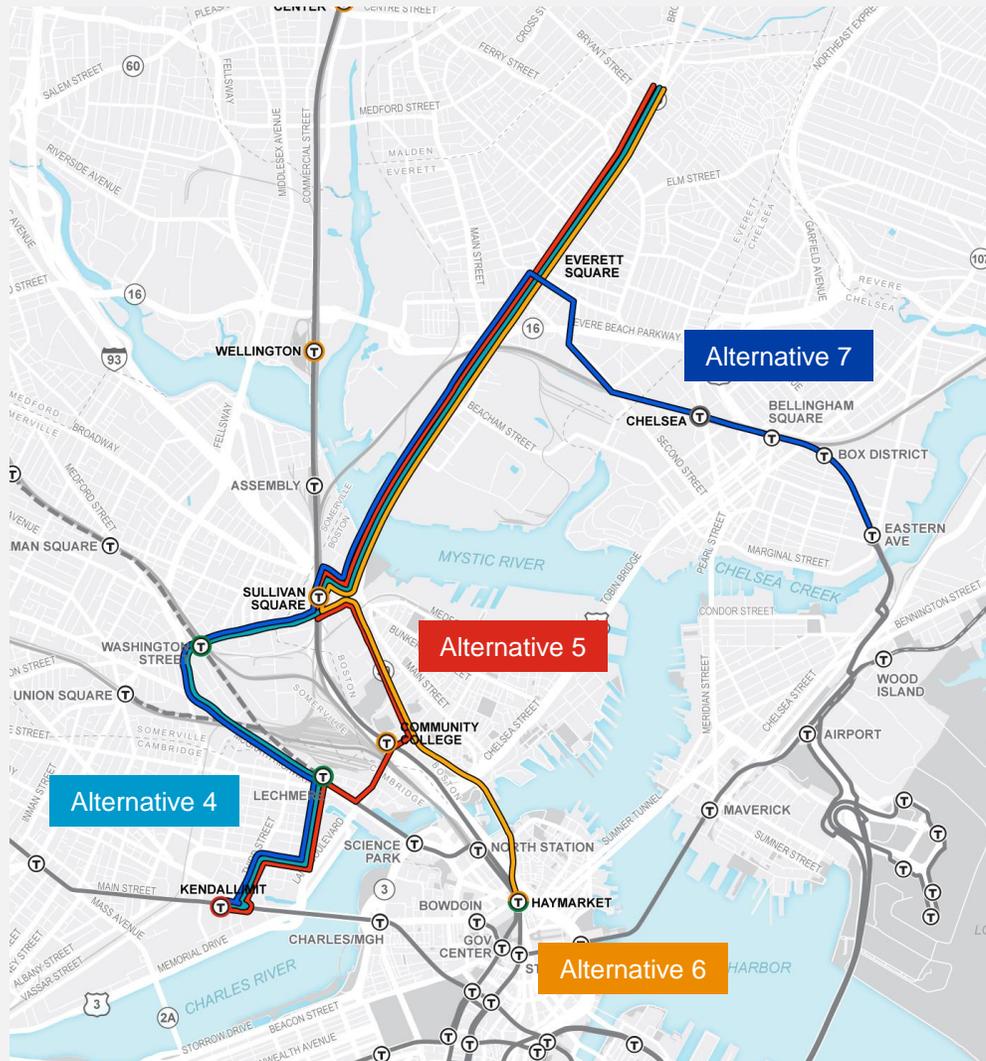
N/A

Key Findings: All SL6 Extension Alternatives



- All alternatives provide a tremendous access to jobs via transit and without much difference between the peak hour and midday
- All alternatives increase the extent of bus transit priority which results in reduced travel time delay, for *all* transit that can use the bus lanes
- The capital investment that goes into the SL6 alternatives is expected to improve safety along the alignment and at stations

Key Findings: All SL6 Extension Alternatives

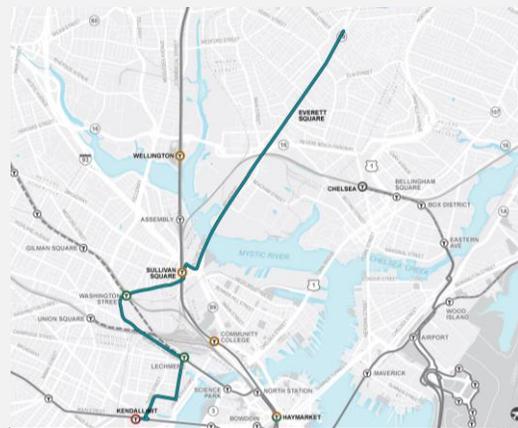


- All the SL6 alternatives result in a greater transit mode share (and reduced auto mode share) than SL3 alternatives
- All SL6 alternatives rely on major investments made by others (reconstruction projects of Sullivan Square, Rutherford Avenue and McGrath Highway)

Results by Alternative

Goal Area	Alternative 4	Alternative 5	Alternative 6	Alternative 7
	SL6 to Kendall via McGrath	SL6 to Kendall via Rutherford	SL6 to Boston via Rutherford	SL6 to Kendall from Chelsea
Expand Mobility and Access	Very Good	Very Good	Good	Very Good
Advance Equity	Very Good	Good	Very Good	Very Good
Improve Safety	Neutral	Neutral	Neutral	Neutral
Support Climate Change Resilience and Sustainability	Neutral	Neutral	Neutral	Neutral
Advance Feasible and Implementable Solutions	Very Good	Good	Good	Very Good

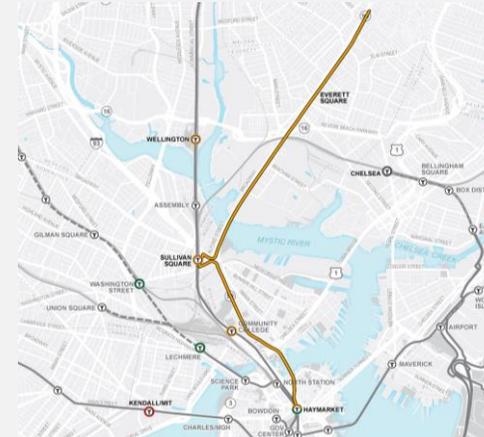
Results by Alternative



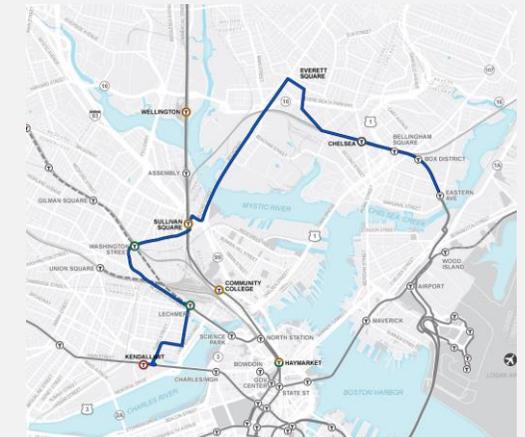
Alt. 4: SL6 to Kendall via McGrath



Alt. 5: SL6 to Kendall via Rutherford



Alt. 6: SL6 to Boston via Rutherford



Alt. 7: SL6 to Kendall from Chelsea

Metrics where these alternatives perform well

- Reduction in bus delay
- Connections with the regional bicycle network
- Extent of transit priority (travel time reliability)
- Potential for cost sharing

- Extent of transit priority

- Extent of transit priority
- Access to jobs
- Reduction in bus delay
- Potential for cost sharing

- Extent of transit priority (travel time reliability)
- Total daily riders
- Potential for cost sharing

Metrics where these alternatives do not perform well

- Serving a known travel flow for transit critical populations
- Fleet requirements
- Travel time

- Serving a known travel flow for transit critical populations
- Travel time

- Total ridership
- Cost effectiveness

- Fleet requirements
- Cost-effectiveness
- Travel time

Community Outreach

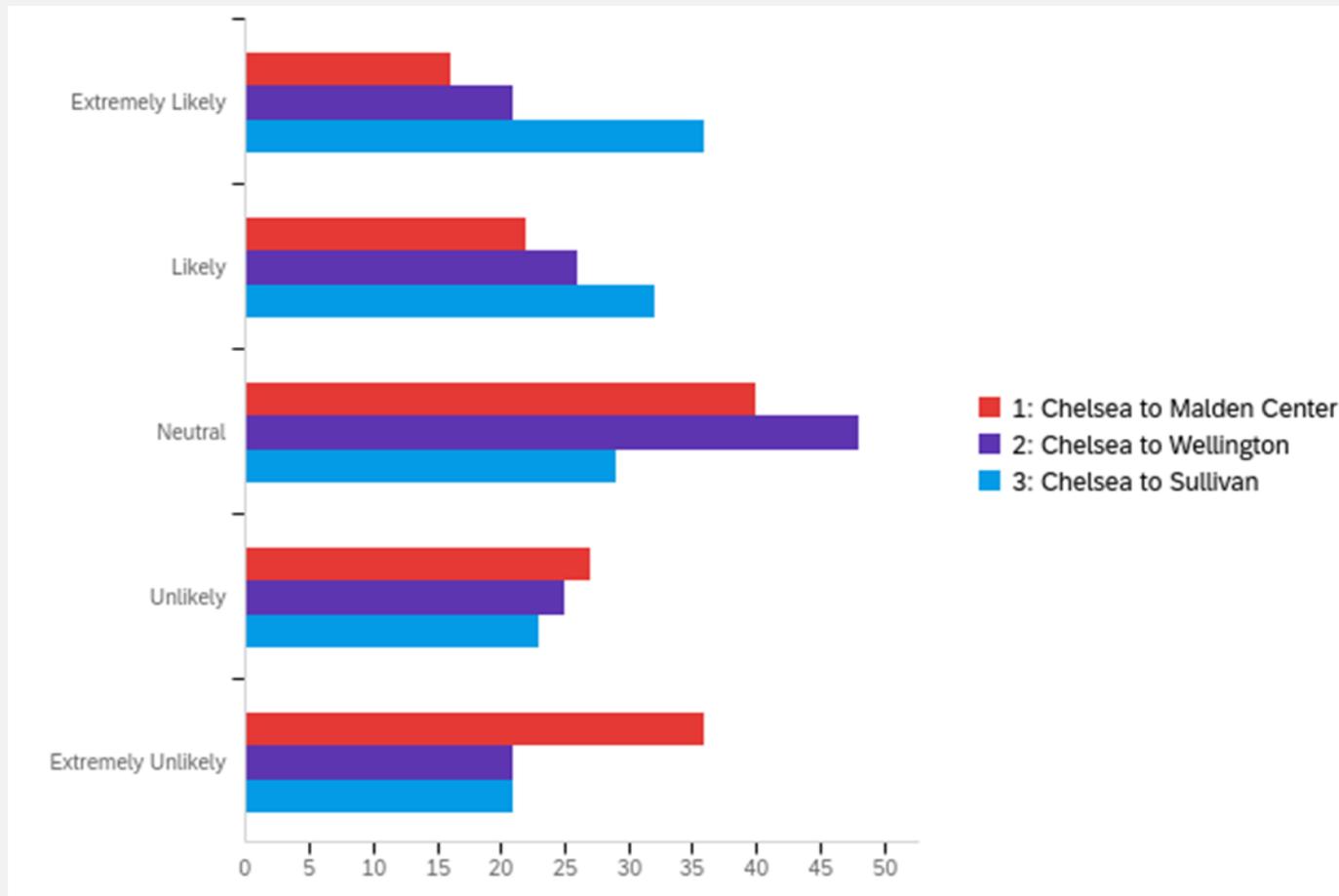
Outreach Process

Over this past summer and fall we conducted outreach to stakeholders and the study area communities:

- ✓ Led 5 outreach events in Everett, Chelsea, and Somerville
 - ✓ Everett Harvest Festival
 - ✓ Bellingham Square
 - ✓ Sullivan Square
 - ✓ Malden Center
 - ✓ Chelsea Station
- ✓ Developed and opened a community online feedback form and a project fact sheet (available in 3 languages)

Online Feedback Form Results – SL3 Alternatives

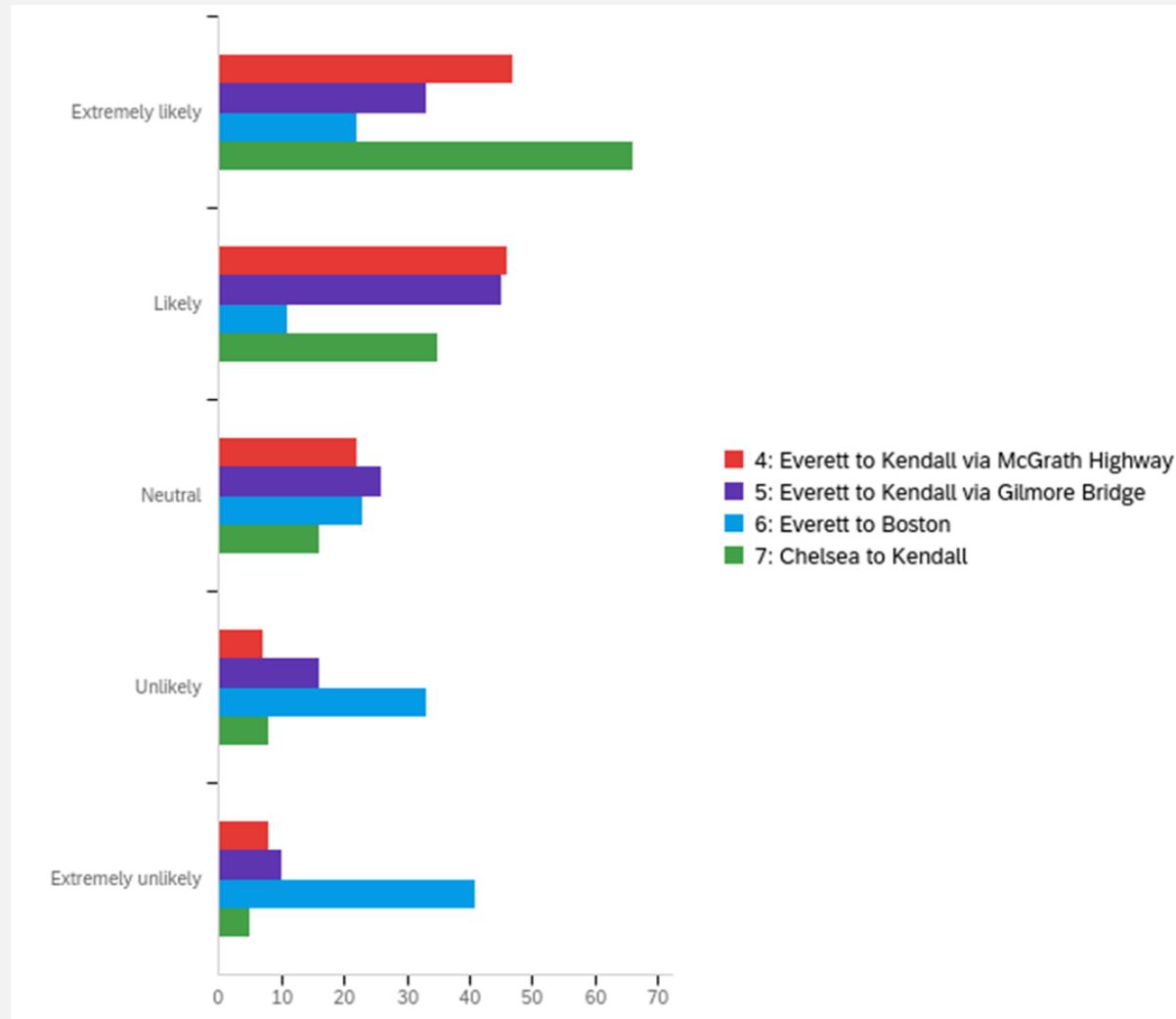
Please let us know how likely you would be to use each of the SL3 alternatives:



- 141 Responses (as of 11/22/22)
- Respondents viewed Alternative 3 as the one they are most likely to use

Online Feedback Form Results – SL6 Alternatives

Please let us know how likely you would be to use each of the SL6 alternatives:



- 130 Responses (as of 11/22/22)
- Respondents viewed Alternatives 7 and 4 as the ones they are most likely to use

- Our third Online Feedback Form is live at mbta.com/slxfeedback until January. Please help us by providing your feedback!
- Our next External Working Group meeting is anticipated to be held in early 2023
- We anticipate holding another Public meeting this coming winter or early spring as well

Questions & Answers

What feedback would you like to share with us?

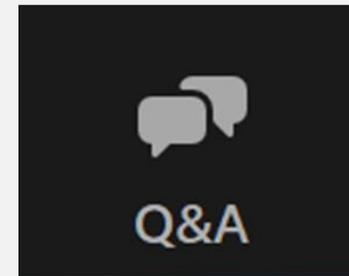
What additional questions do you have?

Questions and Answers

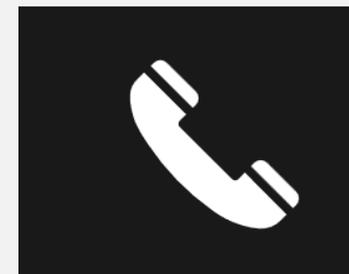
- Please share only one question or comment at a time
- Use the **Q&A** button to submit a typed question or comment.
- Press the **“Raise Hand”** button to share your question or comment verbally. Wait for the moderator to recognize and unmute you before speaking.
- If you have joined by phone only, you may “raise your hand” by pressing the star button and then nine (*9)
- *After you speak, we will lower your hand and you will be muted to allow the team to respond and provide opportunities for others to participate*
- Comments may also be sent to SLX@mbta.com.
- The project website is at mbta.com/slx



To speak,
click **“Participants”**
then **“Raise hand”**



Click **Q&A**
to “Ask A Question”



***9**
Raise Hand

THANK YOU!



Doug Johnson

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