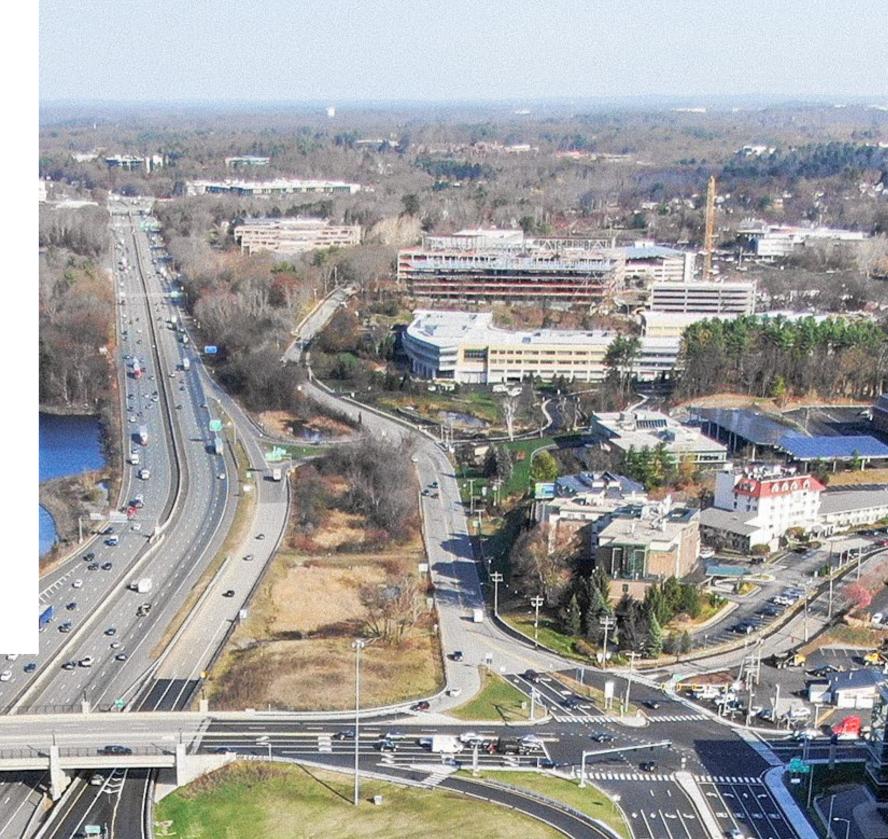




# Public Informational Meeting #3

Alternatives & Draft Recommendations

Wednesday January 18, 2023



#### **Zoom Controls**







Ask a question and share comments



•Raise your hand - \*9 for users dialing in; Alt+Y



Closed captioning is generated by CART Services



•If you are unable to access the internet or are having technical problems, please call into the meeting at 309-205-3325, Webinar ID: 890 6390 0416



Alt + A toggles audio off/on



Alt + V toggles video off/on



If you have trouble with the meeting technology during the presentation, please call:

1-888-799-9666















Live Transcript Breakout Rooms











#### Public meeting notes and procedures:

#### Notification of video recording

- This virtual public meeting will be recorded. The Massachusetts Department of Transportation may choose to retain and distribute the video, images, audio, and/or chat transcript.
- All parts of this meeting are considered public record.
- By continuing attendance with this virtual public meeting, you are consenting to participate in a recorded event.
- If you are not comfortable being recorded, please turn off your camera and keep your microphone muted, or you may choose to excuse yourself from the meeting.

#### **Important notes**

- Your microphone and camera are automatically disabled upon entering the meeting.
- The meeting will be open to questions and answers at the end of the presentation.
- Your feedback is important.

All questions and comments are welcome and appreciated, however we do request that you refrain from any disrespectful comments.





#### Notice of MassDOT's policy on diversity and civil rights:

- All MassDOT activities, including public meetings, are free of discrimination.
- MassDOT complies with all federal and state civil rights requirements preventing discrimination based on sex, race, color, ancestry, national origin (limited English proficiency), religion, creed, gender, sexual orientation, gender identity or expression, or veteran's status.
- We welcome the diversity from across our entire service area. If you have any questions or concerns, please visit <a href="https://www.mass.gov/nondiscrimination-intransportation-program">https://www.mass.gov/nondiscrimination-intransportation-program</a> to reach the Office of Diversity and Civil Rights.

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





#### Agenda

- Public Meeting #2 Recap
- Alternatives Development & Analysis
- Draft Recommendations
- Breakout Rooms
- Next Steps
- Public Comment





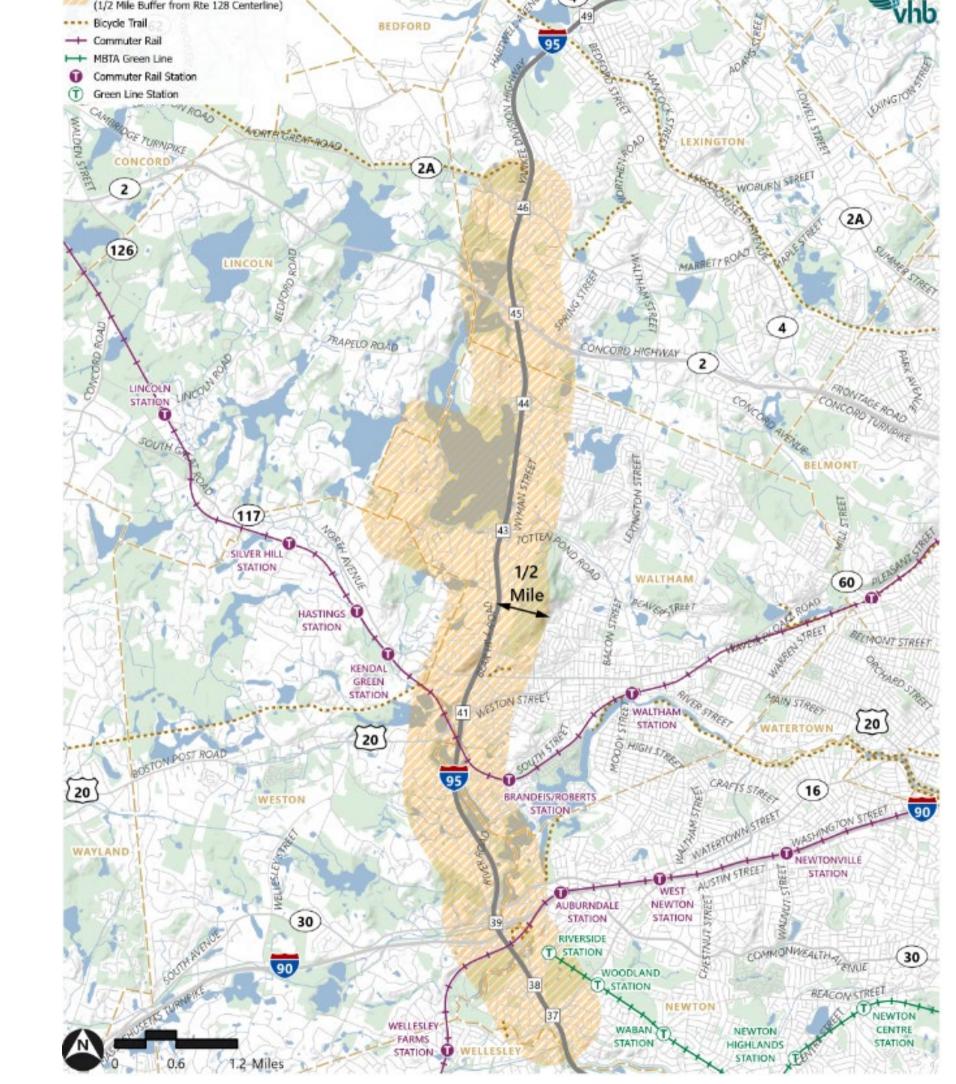


#### **Project Overview**

The Route 128/I-95 Land Use and Transportation Study will establish the future land use, housing, and economic development assumptions.

The study area includes Route 128/I-95 between Newton and Lexington.

The study will develop and analyze alternatives, present recommendations, and develop an implementation plan.







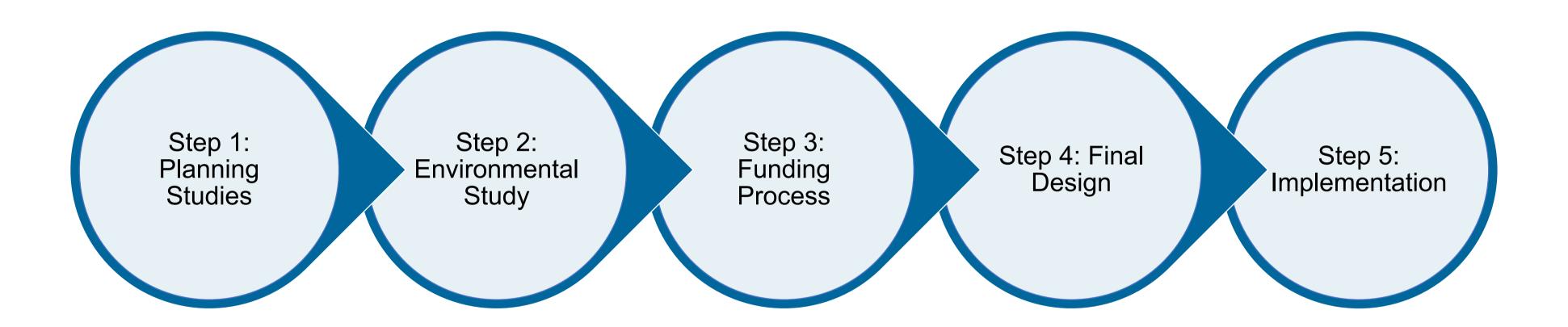
# **Study Process**







#### **MassDOT Project Development Process**









# Public Meeting #2 Recap

# In 1-2 words, what is your vision for the future of Route 128/I-95?

Mentimeter



#### **Meeting Summary**

- Over 45 attendees with 24 questions answered live
- Meeting Agenda
  - Welcome
  - Public Meeting #1 Recap
  - Future Conditions Review
  - Issues, Opportunities & Constraints
  - Alternatives Development
  - Next Steps
  - Public Comment
- Study Team asked attendees 3 poll questions using Mentimeter









# Alternatives Development & Analysis

#### **Alternatives Process**

Ped/Bike Connections

Shuttle Expansion Land Use Policies

C/AV Integration Managed Lanes

Shared Travel Facilities TSMO Solutions

Multimodal Center

**Long List of Ideas** 

First-Level Screening i.e. "Fatal Flaw" Review

Detailed Analysis with Study Goals & Objectives

**Develop Alternatives** 

**Subset of Targeted Alternatives** 

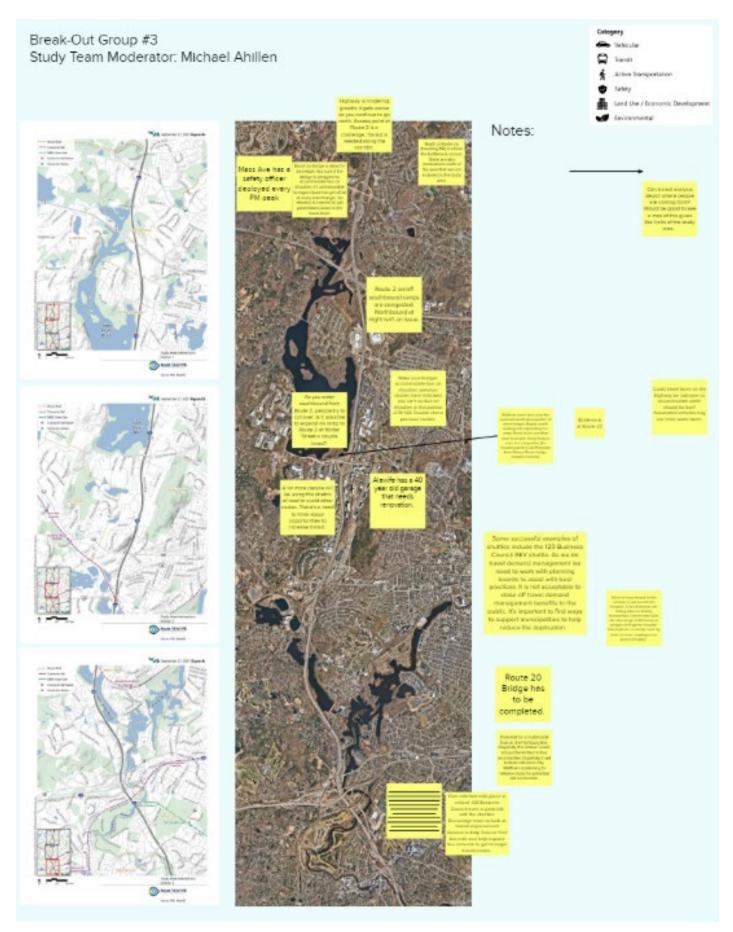
Route 128/I-95 Action Plan Short-Term, Mid-Term, Long-Term Recommendations





#### **Alternatives Development**

- Based on a review of:
  - Existing & Future Conditions Analysis
  - Input from the Working Group
  - Discussions with MassDOT & MBTA
  - Public outreach process
  - Online mapping tool



Working Group Alternatives Development Mural Board





#### **Alternatives Categories**

- Land Use/Economic Development (LU)
- Transportation
  - Vehicular (V)
  - Transit (T)
  - Active Transportation (AT)
  - Safety (S)
  - General (GT)
- Environmental (E)

100+ ideas generated

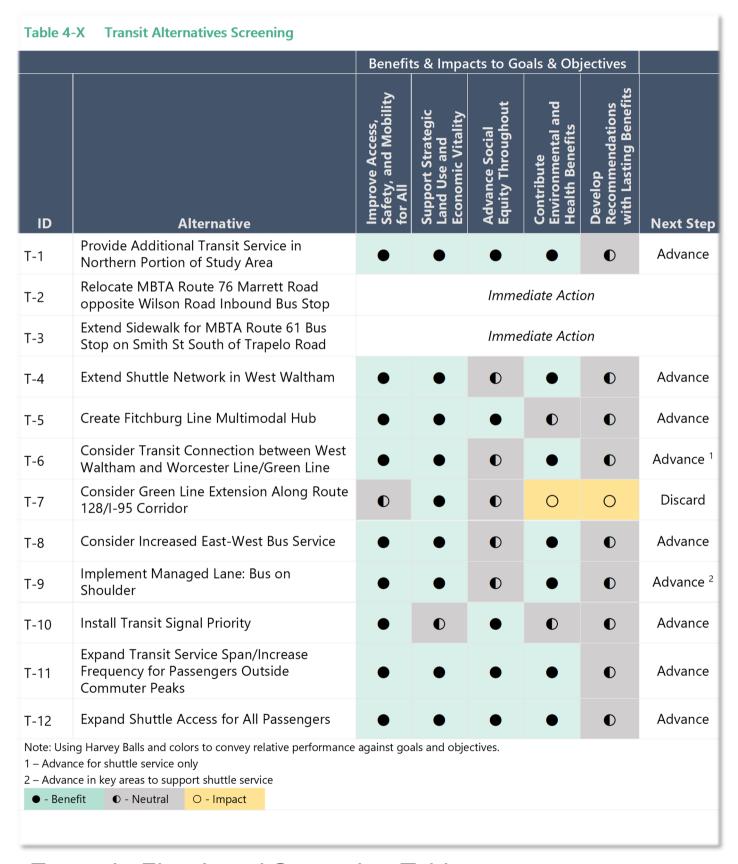
80+ alternatives developed





#### First-Level Screening

- Based on established goals and objectives
- Where applicable, considered a highlevel assessment of feasibility given the physical constraints of the area.
- Resulted in the following:
  - 54 advanced for further study
  - 19 discarded
  - 11 immediate actions



Example First-Level Screening Table





# Draft Immediate (0-1 Year) Recommendations (for discussion with responsible parties)

ID	Alternative	Responsible Parties
V-24	Route 16 at Quinobequin Road: Extend Westbound Left-Turn Lane	MassDOT, DCR
V-25	Route 16 at Quinobequin Road: Extend Southbound Two-Lane Approach on Quinobequin Road	MassDOT, DCR
T-2	Relocate MBTA Route 76 Marrett Road opposite Wilson Road Inbound Bus Stop (in progress)	MassDOT, MBTA
T-3	Extend Sidewalk for MBTA Route 61 Bus Stop on Smith Street South of Trapelo Road	City of Waltham, MBTA
AT-6	Trapelo Road at Route 128/I-95 Southbound Off-Ramp: Restripe Crosswalks	MassDOT
AT-7	Trapelo Road at Smith Street: Install Crosswalk Across Eastbound Approach	MassDOT
AT-9	Route 16 at Route 128/I-95 Northbound Ramps and Quinobequin Road: Restripe Crosswalks	MassDOT, DCR
S-2	Route 16 at Quinobequin Road: Install Advance Signage and Lane Markings for Lane Designations	MassDOT, DCR
S-3	Route 16 at Beacon Street: Install "No Turn on Red" Signage for Northbound Approach	MassDOT
S-4	Route 16 at Quinobequin Road: Install Flashing Yellow Arrows	MassDOT, DCR
S-6	Review Speed Data on Study Area Roadways	MassDOT, Study Area Municipalities

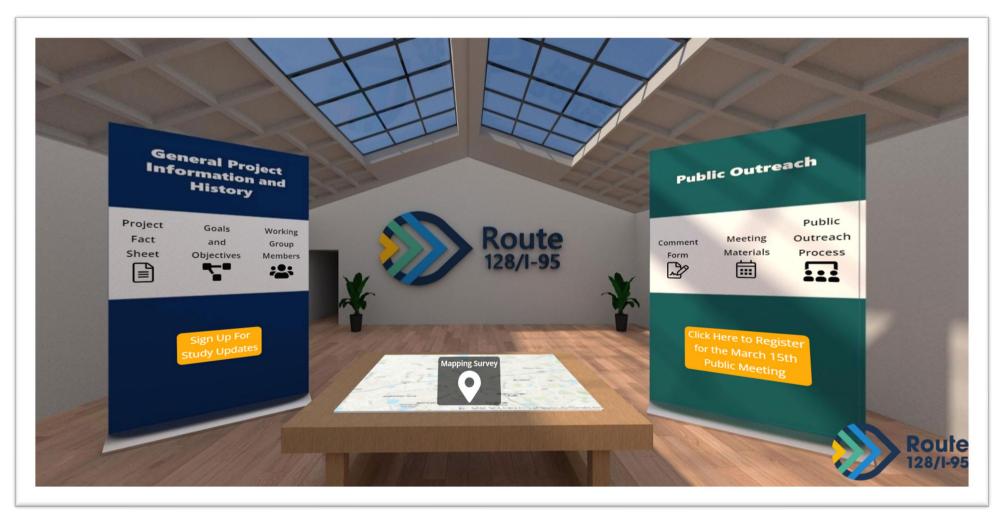




#### **Evaluation Criteria**

- Evaluation criteria tied to each of the five study goals.
- Refer to project website for more information (see QR to the right)







#### **Route 128/I-95 Study Framework**

#### Goals, Objectives & Evaluation Criteria

Route 128/I-95 Land Use and Transportation Study specific goals, objectives, and evaluation criteria were developed and refined in conjunction with the Working Group. Goals define the general intentions and purposes for conducting the study based on the issues that have to be addressed. Objectives describe ways that the goals could be accomplished. The evaluation criteria are used to measure how well – qualitatively and quantitatively –each alternative meets the goals and objectives.

#### Study Specific Goals, Objectives & Evaluation Criteria (1 of 2)

Goals/Objectives	Evaluation Criteria
Improve Access, Safety, and Mobility for All	
<ul> <li>Induce a mode shift</li> <li>Minimize multimodal delays &amp; improve reliability</li> <li>Enhance safety</li> <li>Integrate technologies &amp; improve customer experience</li> <li>Contribute to state of good repair</li> </ul>	<ul> <li>Mode share/person trips by mode</li> <li>Quality, location, and connectivity of pedestrian/bicycle and transit accommodations</li> <li>Improved vehicle travel times and operations</li> <li>Improved transit travel times and operations</li> <li>Potential for crash reductions</li> <li>Meeting MassDOT and local geometric design standards</li> </ul>
Support Strategic Land Use and Economic Vitality	
<ul> <li>Encourage strategies to support mobility and accessibility</li> <li>Provide connectivity &amp; capacity to support access to jobs</li> <li>Support local and regional plans</li> <li>Promote placemaking</li> </ul>	<ul> <li>Access to jobs</li> <li>Impacts to businesses (labor force impacts, property values, increased jobs creation)</li> <li>Tax base impacts (effects on jobs and employment)</li> <li>Advances local and regional land use priorities</li> </ul>
Advance Social Equity Throughout	
Advance programs/policies that improve transportation choice     Equitably distribute both benefits and burdens     Address lack of housing diversity, affordability, and access     Maintain an open and inclusive process     Protect and preserve adjacent residential neighborhoods	<ul> <li>Mode share/person trips by mode</li> <li>Effects on environmental (e.g., air quality, noise, water quality) and social conditions (e.g., economic activity, traffic and safety) in environmental justice communities compared to non-environmental justice communities</li> <li>Effects on the local/regional housing stock</li> <li>Effects on community cohesion/disruption or division</li> <li>Meaningful involvement of environmental justice populations in the planning process</li> </ul>

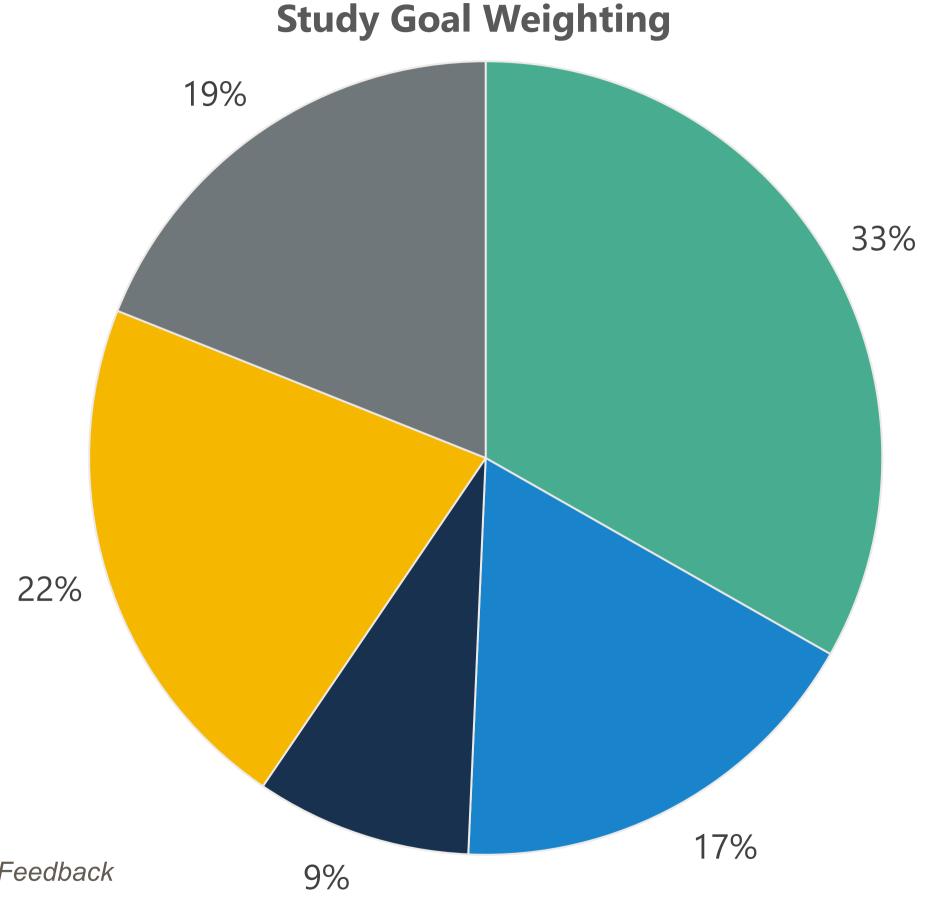
Goals, Objectives, and Evaluation Criteria Table



# Alternatives Scoring

- Improve Access, Safety, and Mobility for All
- Support Strategic Land Use and Economic Vitality
- Advance Social Equity Throughout
- Contribute Environmental and Health Benefits
- Develop Recommendations with Lasting Benefits

Source: Working Group and Public Informational Meeting Feedback







#### **Alternatives Themes**



Improve Regional Mobility



**Expand Transportation Choice** 



Align Policies with Mobility Goals



Plan for the Future



**Address Congestion & Improve Safety** 



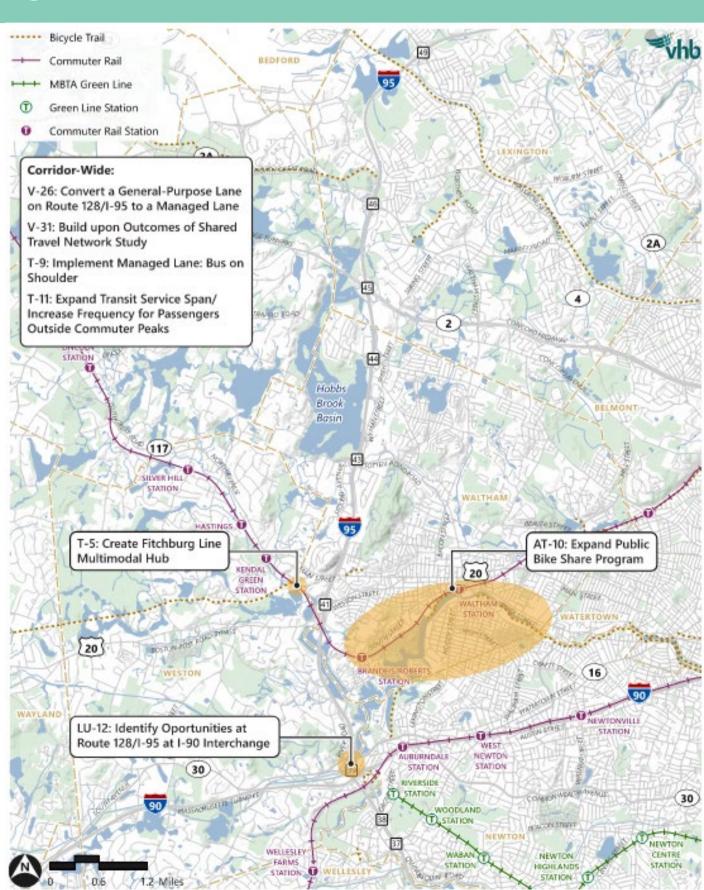


# >>>> Improve Regional Mobility

More reliable and robust multimodal access between the region and the Study Area are critical to address congestion, decrease emissions, and protect adjacent neighborhoods

- T-5: Create Fitchburg Line Multimodal Hub
- LU-12: Identify Opportunities at Route128/I-95 at & I-90 Interchange
- T-11: Expand Transit Service Span/Increase Frequency for Passengers Outside Commuter Peaks
- AT-10: Expand Public Bike Share Program
- V-31: Build upon Outcomes of Shared Travel Network Study
- T-9: Implement Managed Lane: Bus on Shoulder
- V-26: Convert a General-Purpose Lane on Route 128/I-95 to Managed Lane





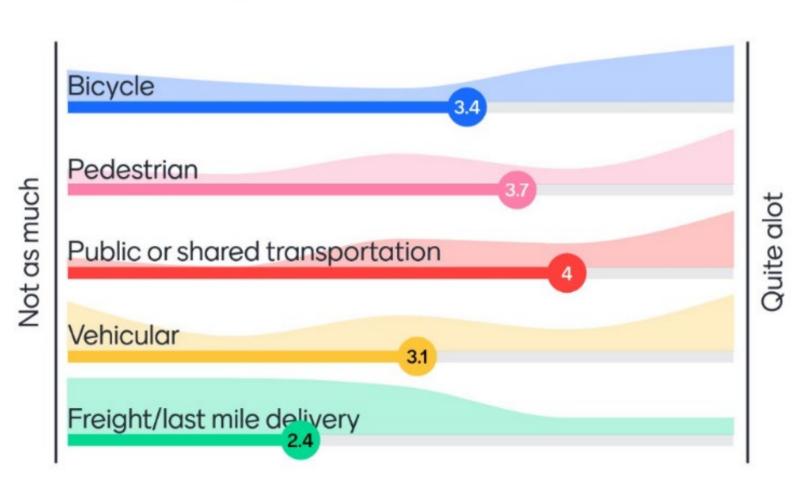
# 9

## **Expand Transportation Choice (1 of 2)**

Expanding and diversifying multimodal options will help the corridor realize its full potential as an economic engine for the region and, as importantly, serve to protect near-by neighborhoods from unintended traffic impacts from this growth

- AT-5: Construct Lower Falls Shared Use Path
- T-1: Provide Additional Transit Service in Northern Portion of Study Area
- T-12: Expand Shuttle Access for All Passengers
- T-6: Consider Transit Connection between West Waltham and Worcester Line/Green Line
- AT-4: Improve East-West Bicycle Connections within Waltham
- T-8: Consider Increased East-West Bus Service

# How important are the following modal investments in this particular corridor?



Source: Public Informational Meeting #2 Poll Results

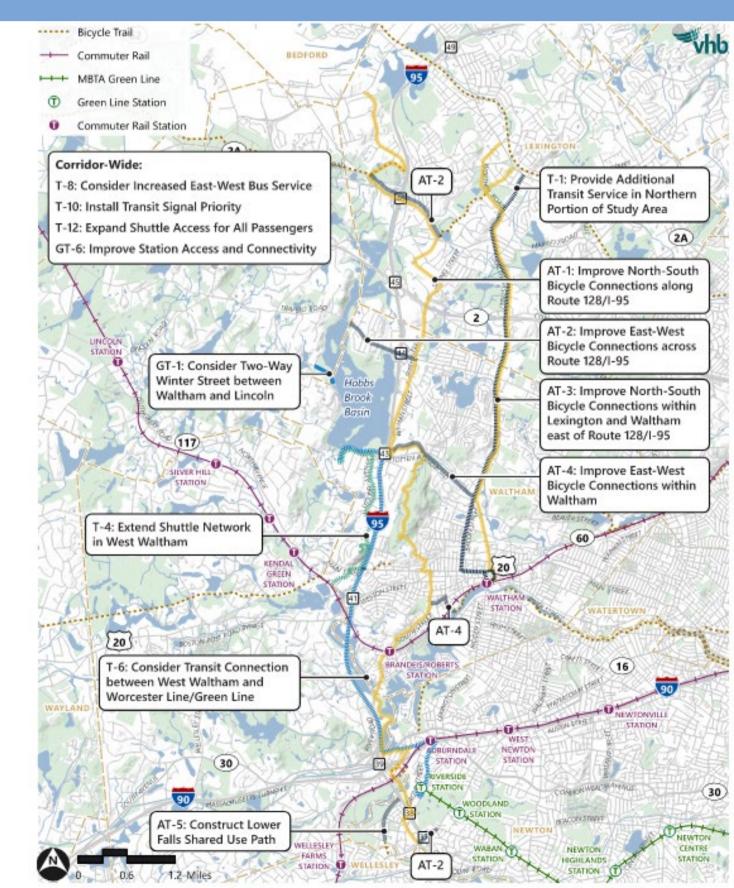




### **Expand Transportation Choice (2 of 2)**

Expanding and diversifying multimodal options will help the corridor realize its full potential as an economic engine for the region and, as importantly, serve to protect near-by neighborhoods from unintended traffic impacts from this growth

- GT-6: Improve Station Access and Connectivity
- T-4: Extend Shuttle Network in West Waltham
- AT-2: Improve East-West Bicycle Connections across Route 128/I-95
- AT-3: Improve North-South Bicycle Connections within Lexington and Waltham east of Route 128/I-95
- AT-1: Improve North-South Bicycle Connections along Route 128/I-95
- T-10: Install Transit Signal Priority
- GT-1: Consider Two-Way Winter Street between Waltham and Lincoln



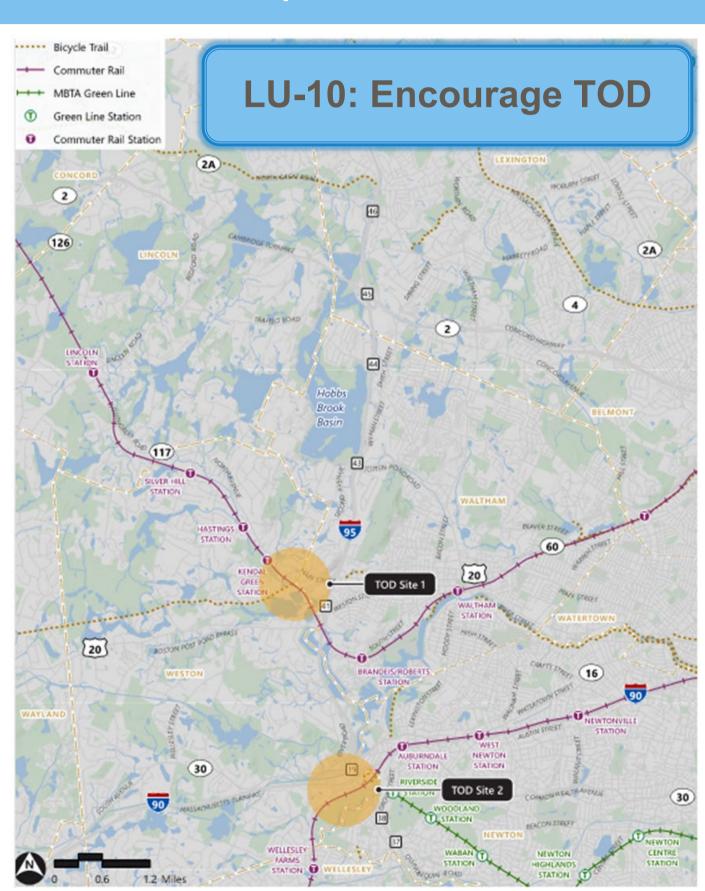


# Align Policies with Mobility Goals

The connection between land use and transportation demands has been highlighted throughout this study. Changes to existing policies to better align with larger mobility goals and infrastructure investments compliment other alternatives.

- LU-10: Encourage TOD
- LU-9: Encourage Mixed-Use Development
- LU-8: Encourage Workforce and Affordable Housing
- LU-3: Remove or Revise Parking Minimums
- LU-6: Improve Public Gathering Spaces
- LU-7: Improve Cambridge Reservoir Access
- LU-5: Improve Open Space Network
- GT-7: Develop Regional TDM Plan
- LU-2: Implement Resident and Small Business Protection
- LU-1: Conduct Market Analysis







#### Plan for the Future

How we live, work, and play is rapidly transforming. Future-focused alternatives for the Study Area seek to embrace current and leverage emerging technologies, support renewable energy, and address sustainability and resiliency challenges.

- V-29: Consider Transportation Systems Management and Operations (TSMO) Strategies
- V-28: Consider Connected/ Autonomous Vehicle Technologies
- E-2: Reduce Amount of Impervious Area and Increase Vegetative Cover
- E-3: Provide Flood Storage and Stormwater Treatment Areas
- GT-8: Install Electric Vehicle Infrastructure Public
- E-1: Improve Hobbs Brook Reservoir Water Quality
- E-4: Limit Development within Flood-Prone Areas
- LU-4: Implement Solar Energy Program Expansion
- GT-9: Install Electric Vehicle Infrastructure Private

#### V-29: Consider TSMO Strategies

- MassDOT is currently advancing efforts around TSMO to mitigate congestion.
- Opportunity to consider deploying TSMO strategies on the Route 128/I-95 corridor, potentially as a pilot.
- Prepares to leverage technology to support transportation needs.





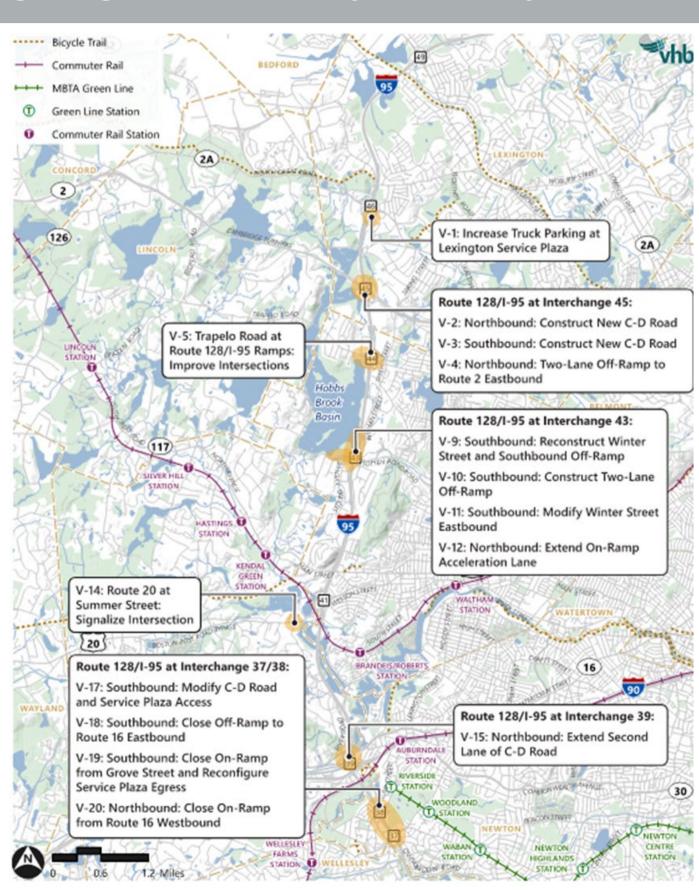


## Address Congestion & Improve Safety (1 of 2)

While we can't build our way out of vehicular congestion, we acknowledge the need to support vehicular traffic within and through the study area. Physical infrastructure investments focus on addressing congestion, reliability, and safety issues.

- V-5: Trapelo Road at Route 128/I-95 Ramps: Improve Intersection
- V-20: Route 128/I-95 Northbound Interchange 37: Close On-Ramp from Route 16 Westbound
- V-19: Route 128/I-95 SB Interchange 37B/38: Close On-Ramp from Grove Street and Reconfigure Service Plaza Egress
- V-3: Route 128/I-95 Southbound at Interchange 45: Construct New C-D Road
- V-17: Route 128/I-95 Southbound Interchange 37/38: Modify C-D Road and Service Plaza Access
- V-10: Route 128/I-95 Southbound Interchange 43: Construct Two Lane Off-Ramp
- V-18: Route 128/I-95 Southbound Interchange 37/38: Close Off-Ramp to Route 16 Eastbound





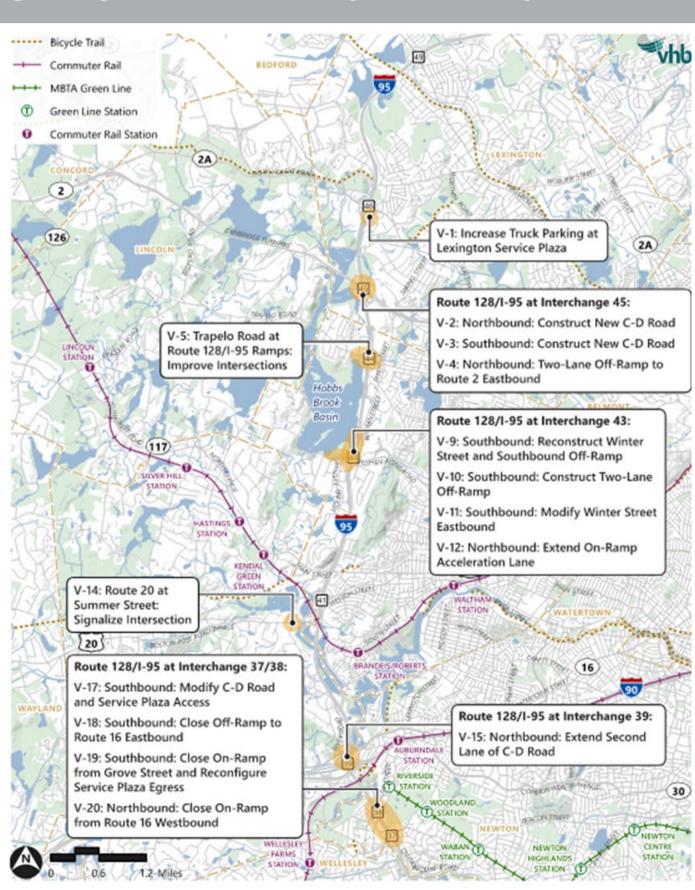


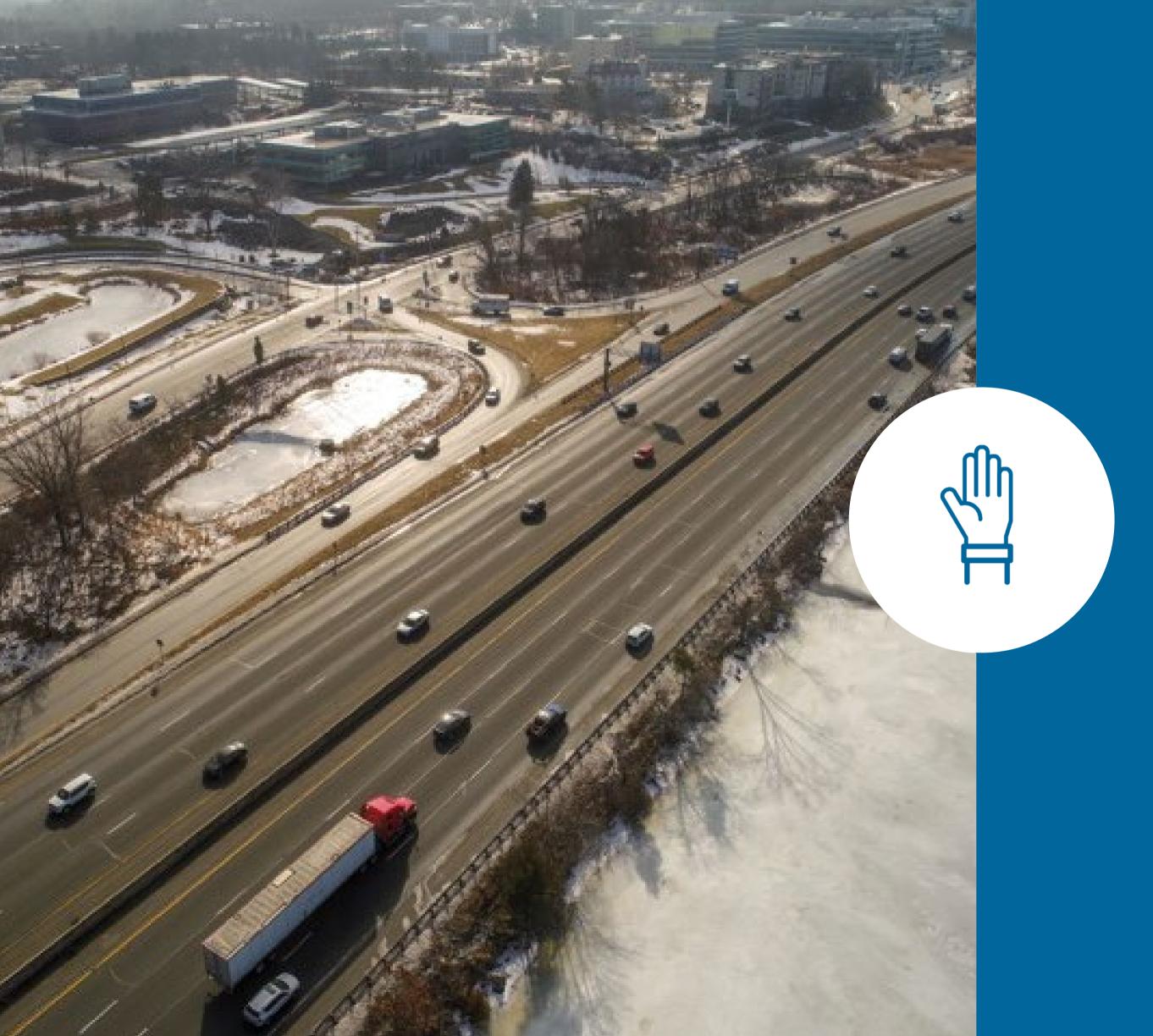
## Address Congestion & Improve Safety (2 of 2)

While we can't build our way out of vehicular congestion, we acknowledge the need to support vehicular traffic within and through the study area. Physical infrastructure investments focus on addressing congestion, reliability, and safety issues.

- V-14: Route 20 at Summer Street: Signalize Intersection
- V-15: Route 128/I-95 Northbound Interchange 39: Extend Second Lane of C-D Road
- V-1: Increase Truck Parking at Lexington Service Plaza
- V-4: Route 128/I-95 Northbound Interchange 45: Two-Lane Off-Ramp to Route 2 Eastbound
- V-12: Route 128/I-95 Northbound Interchange 43: Extend On-Ramp Acceleration Lane
- V-9: Route 128/I-95 Southbound Interchange 43: Reconstruct Winter Street and Southbound Off-Ramp
- V-2: Route 128/I-95 Northbound between Interchanges 44 and 46: Construct New C-D Road
- V-11: Route 128/I-95 Southbound Interchange 43: Modify Winter Street Eastbound



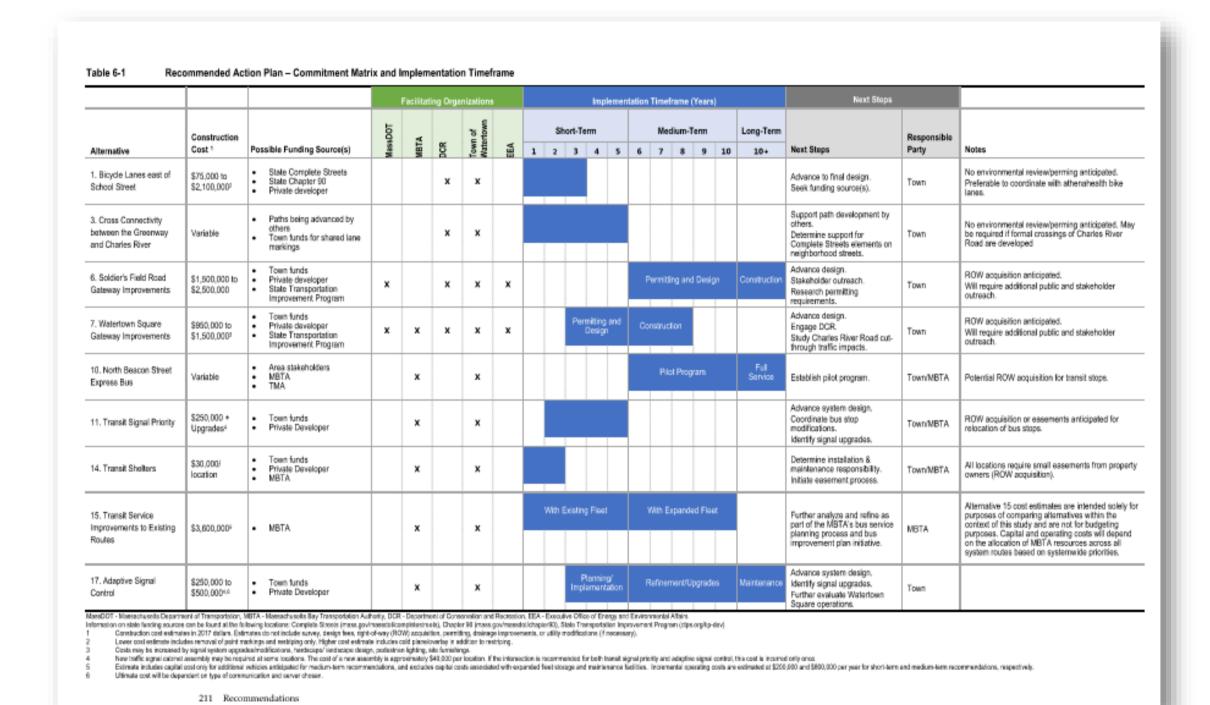




Draft Recommendations

# **Draft Recommendations**

- Draft recommendations for each alternative are based on the analyses to date
  - Advance (all or in part)
  - Monitor
  - Discard
- Discussions with stakeholders refined recommendations
- Public input will further refine
- Study Team will develop an Implementation Plan



#### **Example Implementation Plan**

Source: Arsenal Street Corridor Study







## Implementation Plan

- Short Term 0 to 5 years
  - Minimal to no permitting required
  - Relatively low cost and uncomplicated design
- Medium Term 5 to 10 years
  - May require some permitting
  - Higher cost and more intensive design
- Long Term over 10 years
  - Moderate to extensive permitting
  - High cost and substantial design

#### Implementation Plan Elements

- Oder of Magnitude Cost Estimates
- Facilitating Organizations
- Timeframe







#### Breakout Rooms – Purpose & Setup

- Objectives:
  - Present details of study alternatives
  - Collect feedback to inform recommendations
- Rooms based on the five alternative themes
- Study Team will present alternatives in each theme and take notes on the discussion



**Room #1: Improve Regional Mobility** 



**Room #2: Expand Transportation Choice** 



Room #3: Align Policies with Mobility Goals



& Plan for the Future



Room #4: Address Congestion & Improve Safety





#### **Breakout Rooms - Logistics**

- Participants will be sent to a
   Breakout Room based on registration poll question.
- We will be in breakout rooms for 30-40 minutes.
- At any point, you may switch to another breakout room by clicking "Leave Breakout Room" but be careful to only leave the room, not the meeting.
- We will convene everyone back in the main room.



**Room #1: Improve Regional Mobility** 



**Room #2: Expand Transportation Choice** 



Room #3: Align Policies with Mobility Goals



& Plan for the Future



Room #4: Address Congestion & Improve Safety





#### **Breakout Rooms – Report Back**



**Room #1: Improve Regional Mobility** 



**Room #2: Expand Transportation Choice** 



Room #3: Align Policies with Mobility Goals



& Plan for the Future



**Room #4: Address Congestion & Improve Safety** 

What did we hear in the Breakout Rooms?







# **Next Steps**

## Our next steps



Finalize Recommendations (Winter 2023)



Working Group Meeting #6 Final Recommendations (Spring 2023)



Public Comment on Draft Report (Spring 2023)





#### Schedule













**Project Framework** 

Summer/Fall 2021

**Existing Conditions** 

Fall/Winter 2021/2022

**Future Conditions** 

Winter 2022

**Alternatives Development** 

Spring/Summer 2022

**Alternatives Analysis** 

Summer/Fall 2022





Winter 2023

Recommendations Draft & Final Report

Winter/Spring 2023



Working Group Meeting



Public Meeting

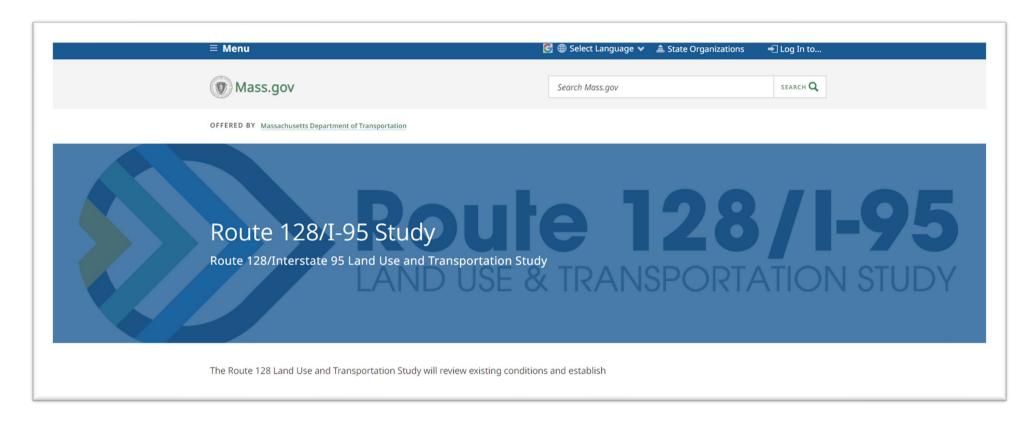


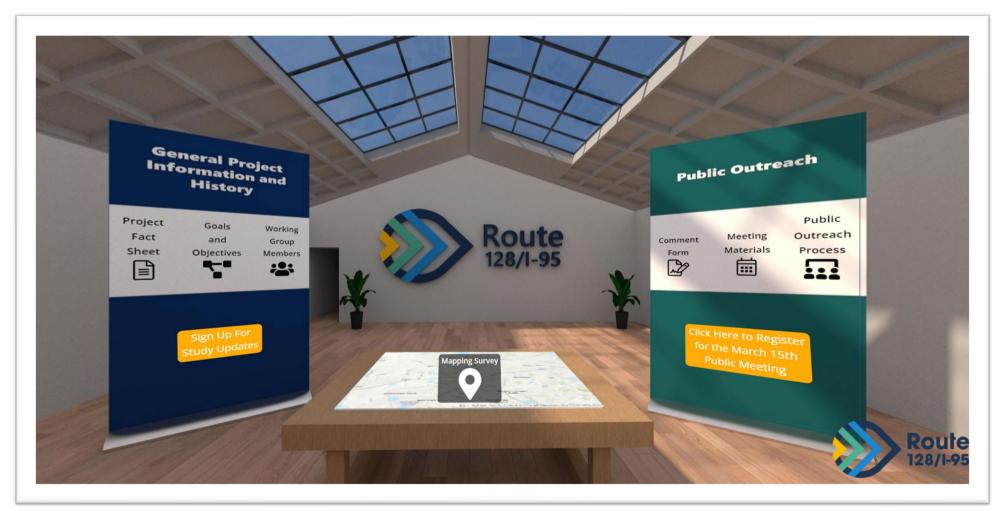


### **Online Engagement**

- MassDOT Project Website
   <a href="https://www.mass.gov/route-128i-95-study">https://www.mass.gov/route-128i-95-study</a>
  - Sign up for Study updates
  - General project information
- Virtual Room for online engagement
  - Linked from MassDOT Project Website
  - Comment form and mapping survey
  - Project information, documents, and materials













# Public Comment

#### **Share Your Questions and Comments**



Submit your questions and comments using the Q&A button



"Raise your hand" to be unmuted for verbal questions; Alt+Y



Please state your name before your question



• Please share only **1** question or comment at a time, limited to **2** minutes, to allow others to participate.



• To ask a question via phone, dial \*9 and the moderator will call out the last 4-digits of your phone number and unmute your audio when it is your turn.



Please take a moment to take the survey on your experience after this meeting

Please be advised that all comments are subject to disclosure for public records, therefore use these functions for project-related business only.









## Thank You

Project Website <a href="https://www.mass.gov/route-128i-95-study">https://www.mass.gov/route-128i-95-study</a>

Liz Williams – Project Manager liz.williams@state.ma.us