

Route 16 Priority Corridor Study Chelsea-Everett, Massachusetts

January 9, 2020

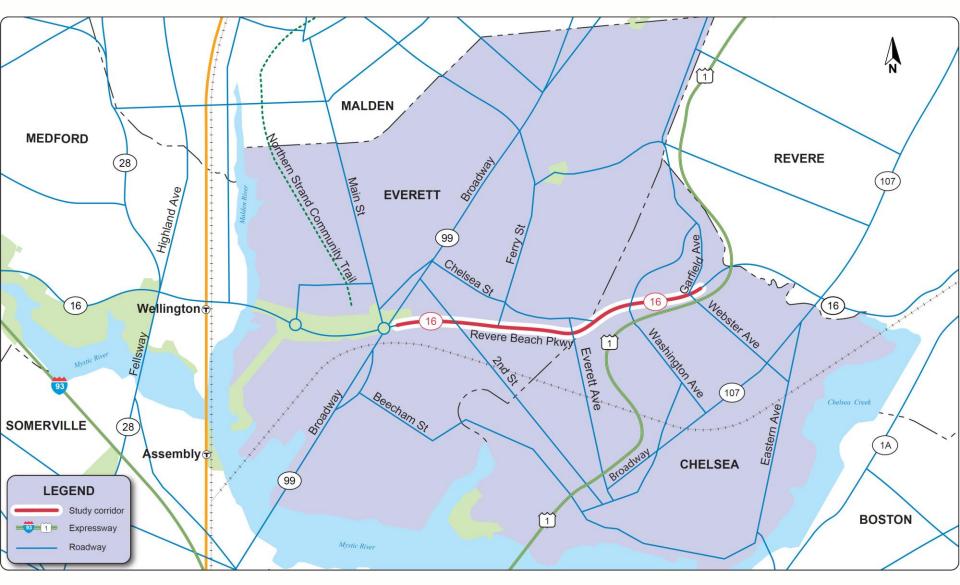
Seth Asante

Boston Region Metropolitan Planning Organization

Study Process

- Advisory task force
- Meetings
- Community survey
- Feedback and comments

Study Area



Studies and Ongoing Projects

To North Station and Kendall Square **D** Sullivan Square

Proposed Commuter Rail Station (LMRWG)

Proposed

Silver Line

Station (LMRWG) Proposed Silver Line from Everett Center to North Station (LMRWG)

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Chelsea Station Commuter Rail

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Proposed Silver Line extension from Chelsea Station to Kendall Square via Sullivan Square (LMRWG)

LEGEND

Newburyport/Rockport Commuter Rail Line

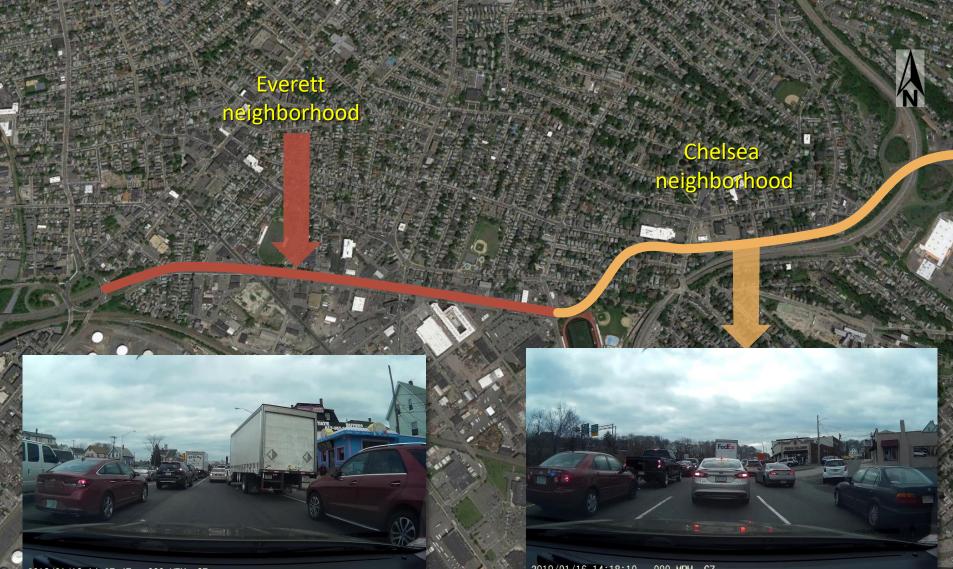
- Silver Line
- Orange Line

Proposed Silver Line extension (LMRWG)

Route 16 study corridor

Existing Conditions

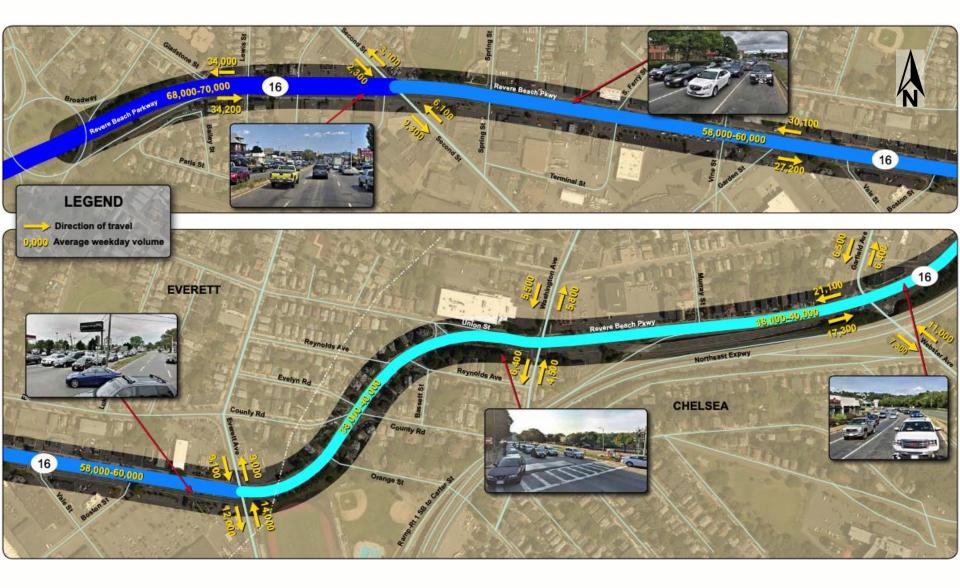
Land Uses



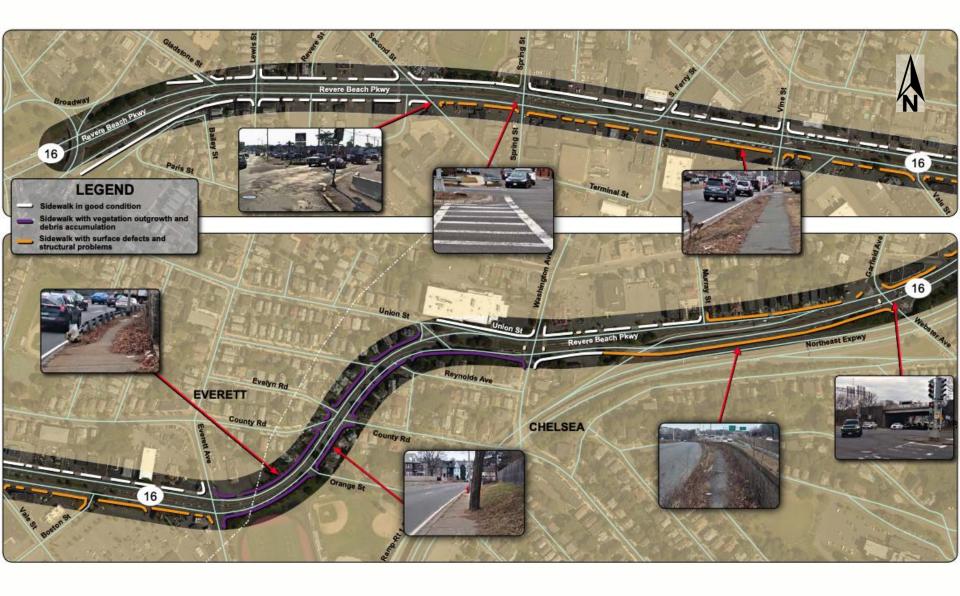
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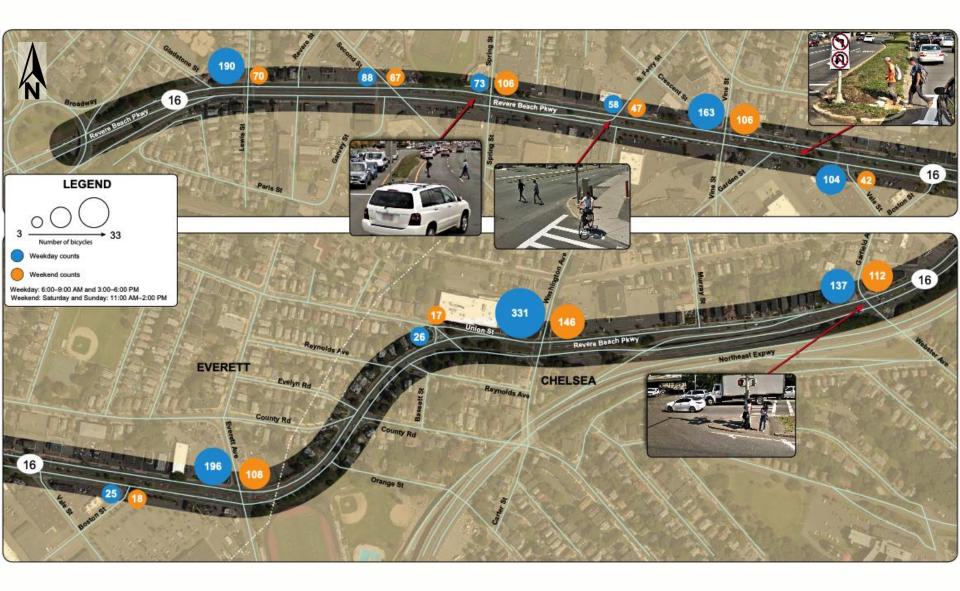
Average Weekday Traffic



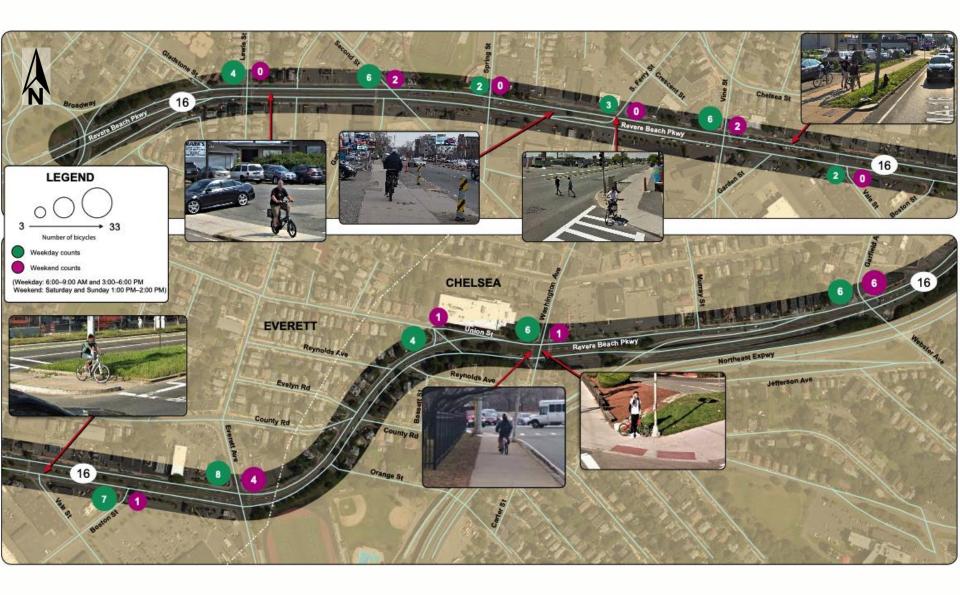
Pedestrian Accommodation



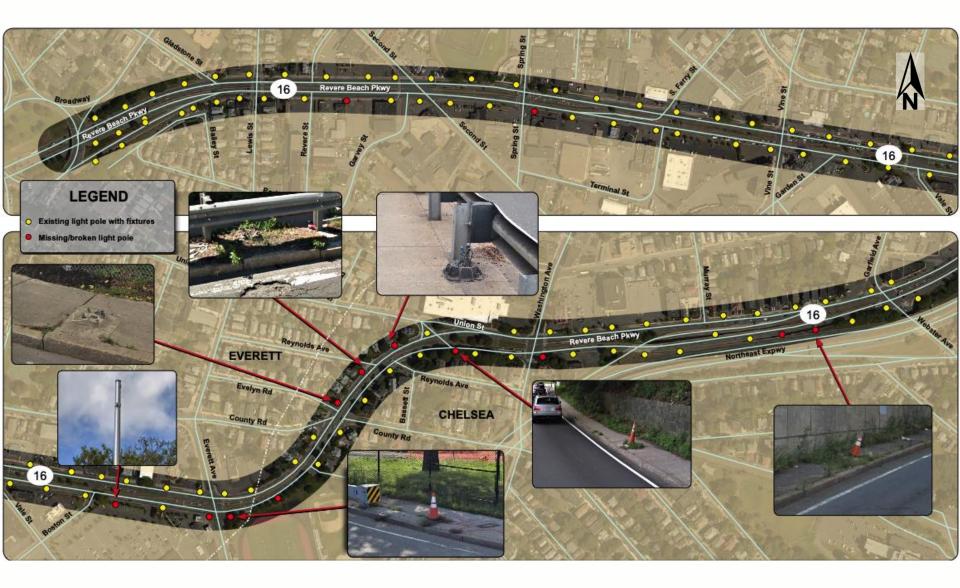
Peak-Period Pedestrian Volumes



Peak-Period Bicycle Volumes



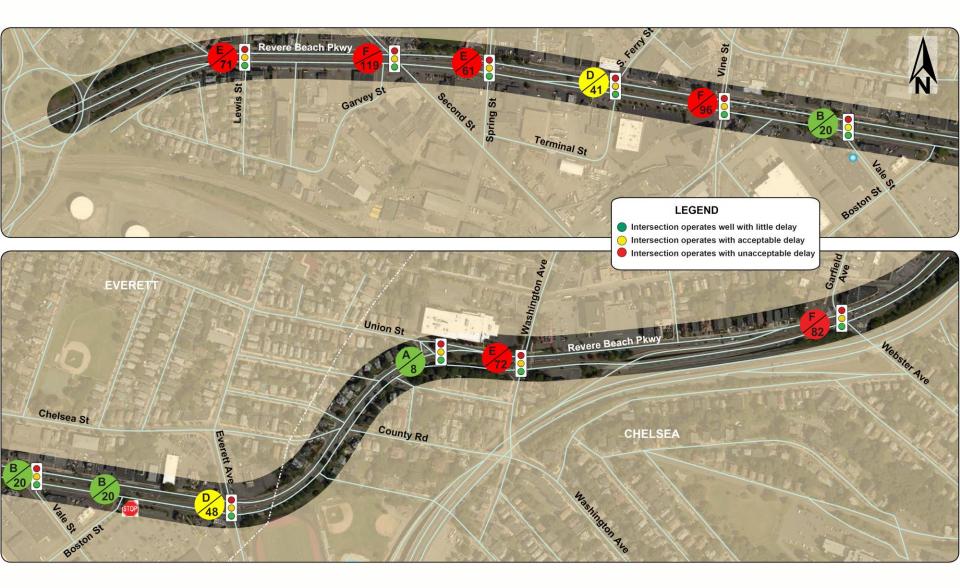
Street Lights



Highway Safety Improvement Program: Intersection Crash Clusters (2012–16)

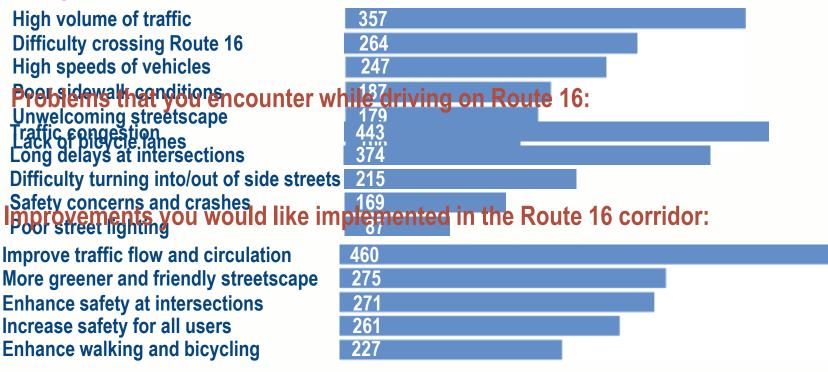


Traffic Congestion



Community Survey

Problems that you encounter or that keep you from bicycling or walking along Route 16:



Community Survey

Safety and operations concerns that you would like addressed:

- Lack of maintenance and trash along the roadway
- Blocked intersections and running red lights
- Outdated signal equipment (not MUTCD compliant)
- Poor drainage and flooding conditions
- Poor pavement conditions and markings that are worn out

Improvements

Short- and Medium-Term Improvements



- Add pedestrian countdown timers to improve safety at crosswalks
- Make wheelchair ramps ADA-compliant
- Provide advance intersection lane control signs
- Install advance street name signs to improve wayfinding
- Retime and coordinate signals to reduce congestion
- Modify clearance intervals to MassDOT standards

ADA =Americans with Disabilities Act. MassDOT = Massachusetts Department of Transportation.

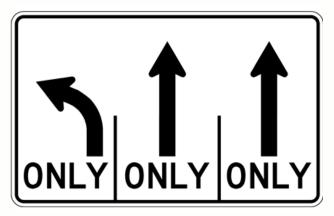
Examples of Advance Street Name and Lane Control Signs



Advance street name sign



Advance street name sign



Advance intersection lane control signs



Street name sign

Short- and Medium-Term Improvements

- Routine maintenance and trash pickup
- More police patrol and enforcement
- Upgrade sidewalks to MassDOT standards
- Upgrade signal equipment (MUTCD compliant)
- Improve drainage systems to reduce flooding
- Resurface roadway and provide high-visibility markings





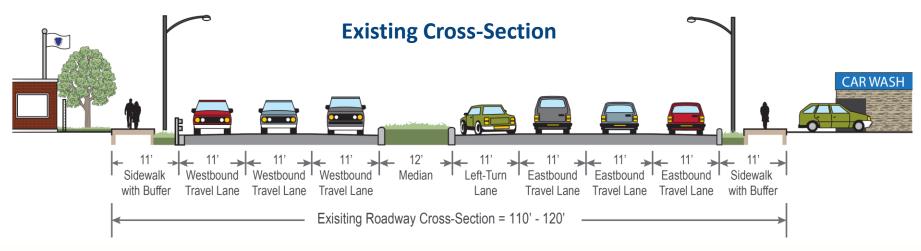




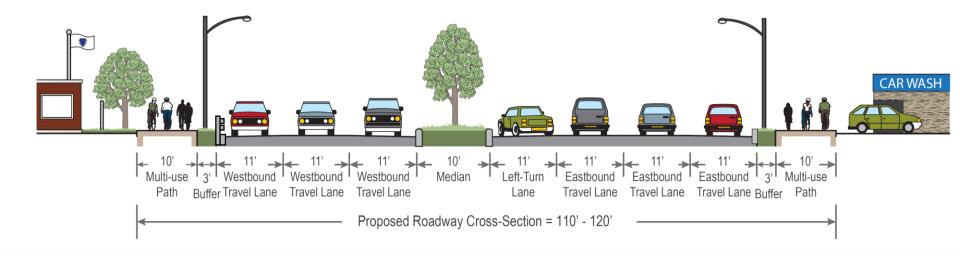




Long-Term Improvements: Pedestrian and Bicycle Accommodation



Proposed Cross-Section



Examples of Cycle Track

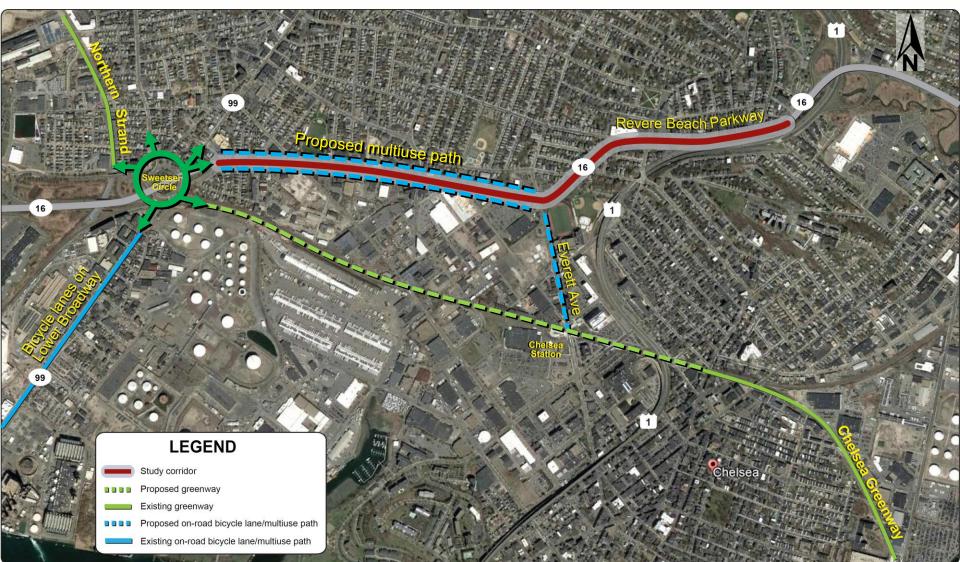








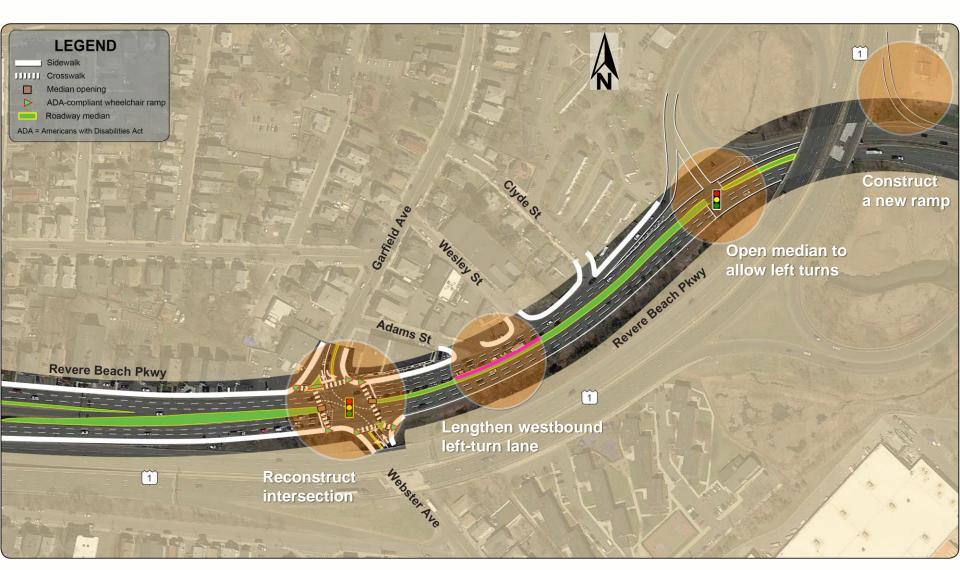
Long-Term Improvements: Bicycle Facilities Connectivity



Long-Term Improvements: Traffic Safety and Operations

- Upgrade traffic signal equipment to overhead mast-arm mounted signal heads
- Implement Adaptive Traffic Signal Control Technology to optimize signal timings and coordination
- Install exclusive left-turn lanes on:
 - Second Street northbound
 - Everett Avenue, northbound and southbound
 - Washington Avenue, northbound and southbound
 - Garfield/Webster Avenue, northbound and southbound

Long-Term Improvements Route 16 at Route 1 Interchange



Pedestrian Report Card Assessment

	Existing Conditions		Future Conditions	
Grading Categories	Score	Rating	Score	Rating
Safety	1.0	Poor	2.4	Good
System Preservation	1.0	Poor	3.0	Good
Capacity Management and Mobility	1.7	Poor	2.7	Good
Economic Vitality	1.5	Poor	2.5	Good





Bicycle Report Card Assessment

	Existing Conditions		Future Conditions	
Grading Categories	Score	Grade	Score	Grade
Safety	9	F	81	В
System Preservation	0	F	75	С
Capacity Management and Mobility	50	F	75	С
Economic Vitality	50	F	100	А





Benefits

- Increases the efficiency of the transportation system
- Increases safety for all users
- Accommodates pedestrians and bicyclists
- Supports economic activities



Conclusion and Next Steps

- This study provides Chelsea, Everett, and MassDOT with improvement concepts
- These concepts align with the MPO's goals
- Implement short and medium-term improvements



Thank You!

Questions and Comments