

Wellington Circle Study







Public Meeting #1 June 24, 2021

Ground Rules

- This meeting is being recorded
- Technical Support: Luke McInnis <u>Imcinnis@HNTB.com</u>
- To participate "Raise Hand", Q&A, or dial *9 if joining by phone
 - Study team will unmute you to share a comment verbally
 - Q&A for submission of written questions/comments



Agenda

- Study Process
- Study Area, Goals & Objectives, and Evaluation Criteria
- Existing Conditions: Planning Context
- Existing Conditions: Multimodal Transportation Network
- Issues & Opportunities
- Meeting on Demand Overview / Public Comment
- Next Steps





Study Background

- Study initiated as part of the Section 61 Finding for the Encore Boston Harbor casino
 - Funding provided for a transportation study to develop alternatives for long-term improvements to Wellington Circle
- Massachusetts General Laws Chapter 30, Section 61
 - Determine the impacts of projects on the natural environment and detail measures to avoid or minimize them (Section 61 Finding)
 - Massachusetts Environmental Protection Act (MEPA) review process



Study Overview

- Conceptual planning study to evaluate existing and future multimodal transportation conditions at Wellington Circle
- Examine ways to redesign Wellington Circle to provide better connectivity and improve multimodal mobility throughout the area of the City of Medford and surrounding region
- Develop short-, medium-, and long-term recommendations that will be included in a Final Report

Study Process





Study Process

Study Process



Public Involvement

1. Working Group Meetings (8)

- The Working Group includes representation from residents, local businesses, community organizations and local, state and federal officials
- The group provides guidance throughout the study, helping to develop goals, discuss existing and future conditions, and weigh alternatives
- 2. Community Engagement Events (4)







Public Involvement

Online Engagement

MassDOT Webpage

Project information, documents, and meeting materials, links to online engagement platform <u>https://www.mass.gov/wellington-circle-study</u>

Wellington Circle Study

A conceptual planning study evaluating the existing and future multimodal transportation conditions at Wellington Circle in the City of Medford.

The Massachusetts Department of Transportation (MassDOT) is conducting a study to develop and analyze alternatives intended to improve connectivity and multimodal mobility throughout the area for the City of Medford and the surrounding region. The study will examine and evaluate alternatives in the context of vehicular, bicycle and pedestrian use, transit use, land use, and cost, as well as resulting economic, social and cultural impacts.

SOCIAL

Sign up to receive study updates

Submit your comments online >

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Please do not place any personally identifiable information (name, phone, or email) within your comment.



Study Process

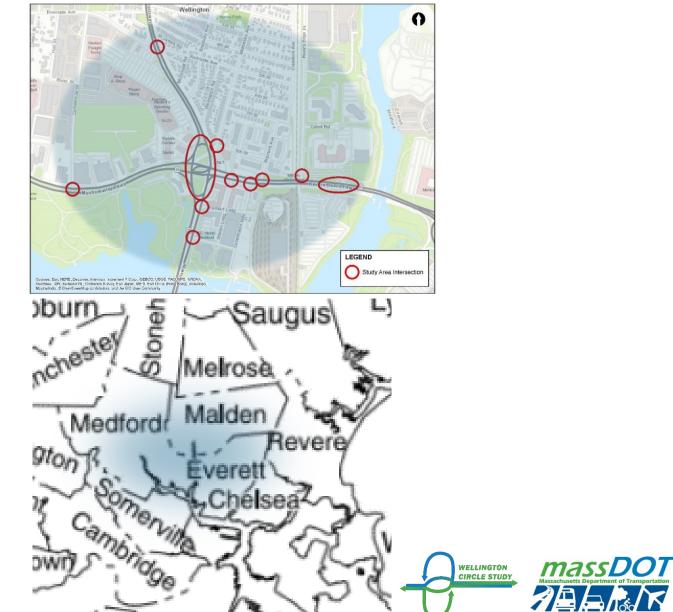


STUDY AREA, GOALS & OBJECTIVES, AND EVALUATION CRITERIA

Study Area

Local Study Area

- Roadways, transit routes, and infrastructure directly in and around Wellington Circle
- Regional Study Area
 - Includes surrounding communities whose residents and employees may benefit from or be impacted by improvements to Wellington Circle





Study Goals

Study Goals

- 1. Improve mobility and connectivity for all transportation modes and users in the Wellington Circle area
- 2. Improve safety conditions for all transportation modes and users in the Wellington Circle area
- 3. Improve quality of life for residents in the Wellington Circle area
- 4. Improve local and regional connectivity to support businesses and future development



Study Objectives

Mobility/Access

- Mitigate traffic congestion
- Provide facilities for pedestrians, bicyclists, and transit
- Improve connectivity to Wellington Station

Safety

- Reduce speeds
- Reduce conflict points between modes
- Dedicated space for pedestrians & bicyclists

Quality of Life

- Enhance attractiveness
- Minimize public health & environmental impacts
- Provide fair and equitable treatment for EJ populations

Connectivity

- Reduce travel delays
- Improve access and circulation
- Promote active transportation



Evaluation Criteria

How to measure how well goals are met:

- Multimodal Mobility mode split, travel times, transit reliability, miles of dedicated facilities
- Safety number of crashes, number of conflict points, predictive measures
- Land Use and Economic Development vacancy rate, rent prices, land use mix
- Environmental Effects Emissions/air quality, acres of open space
- Community, Health and Social Equity impact to EJ populations, public health indicators
- Constructability
- Cost



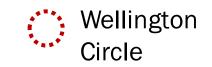


16 WEST

Existing Population Density

TTELLS 6) Legend Malden Center MBTA Stations MBTA Orange Line MBTA Red Line Commuter Rail **Study Area Population per Square Mile** 0-2,500 River's Edge 2,501 - 7,500 7,501 - 15,000 15,001 - 22,500 22,501 - 30,000 Revere Beach Parkwa Wellin **T** Davis Chelsea ellingham So Winter Hill Box District Eastern Ave Sullivan Square U WAI Wood Islan







8,872 Persons per Square Mile in Study Area

Population densities around Wellington Circle are lower than the Study Area at large - there is an opportunity for denser, transit-oriented development given the proximity of the Orange Line Station.



CTPS Population Estimates by TAZ, 2020

Who Makes Up the Local Study Area?

Existing Conditions: Planning Context



36% of residents identify as non-white*



42% use a language other than English as their primary language*



12% of the population has an income below the federal poverty level*

*Data provided at community level



14% of households are car-free

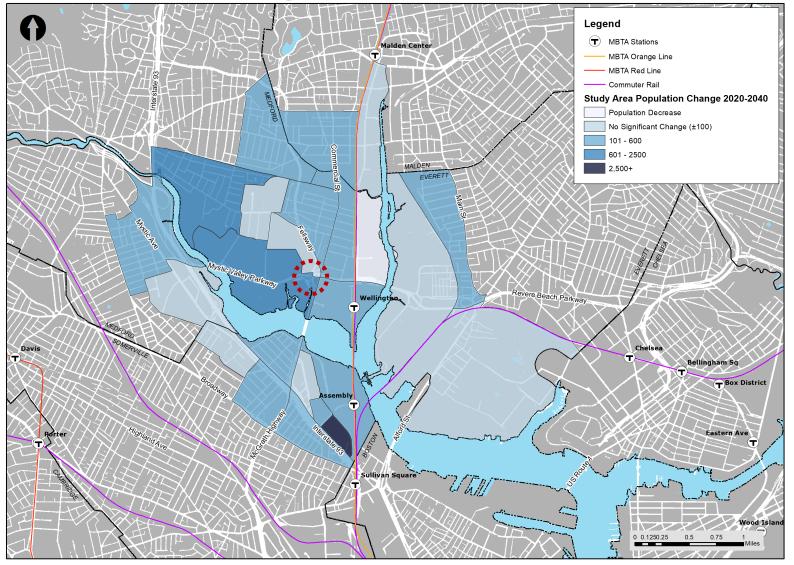


Diversity in the study area goes beyond the environmental justice qualifiers: both Malden and Everett are majorityminority cities, and linguistic diversity is strong as well. Portuguese and French Creole are the most spoken languages other than English.

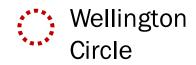


Car-Free Households, American Community Survey 5-year Estimates, 2019

Population Change 2020-2040



Existing Conditions: Planning Context



~6,700 New Residents in Study Area

36,534 in 2020 43,197 in 2040

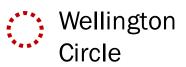
As population demands change, increasing the use of multimodal transportation options may provide opportunities to minimize congestion and vehicular emissions.



CTPS Population Estimates by TAZ, 2020, 2040

Employment Change 2020-2040

Legend Malden Center MBTA Stations MBTA Orange Line MBTA Red Line Commuter Rail Study Area Employment Change 2020-2040 No Significant Change (±100) 100-500 500+ MALDEN EVERETT Davis Chelsea **Bellingham Sc** Box District Eastern Ave U WII Wood Islar 0.75





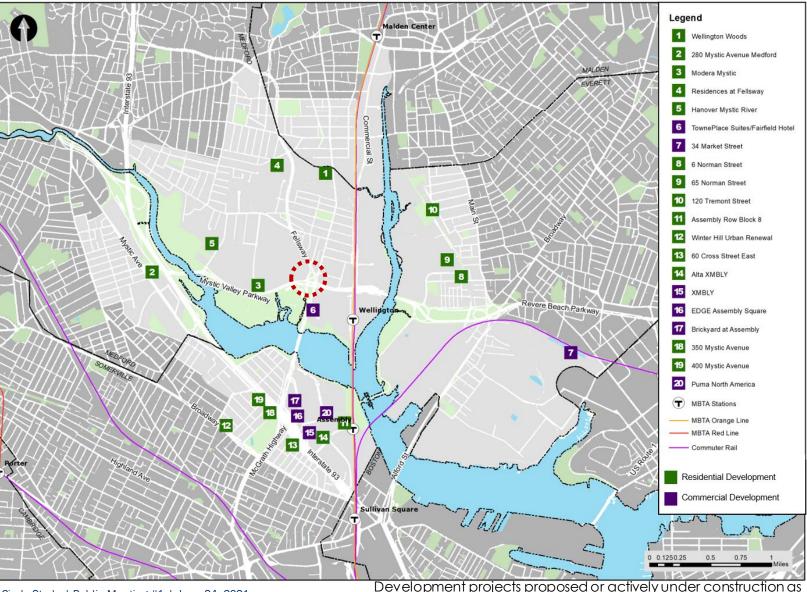
+30% Growth in Study Area Employment

23,300 in 2020 30,254 in 2040

Employment growth in the local study area is driven by development in Everett and Somerville related to the Encore Casino, Silver Line Extension, and large-scale projects in Assembly Square.

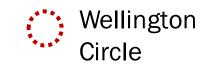


Planned Development



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The largest residential projects are in areas where the existing land use is not primarily residential or zoned for residential, which contributes to future shifts in the population and employment. Activity is likely to increase in these areas, so it will be important to provide multimodal facilities to help reduce vehicular traffic



of 10/31/20

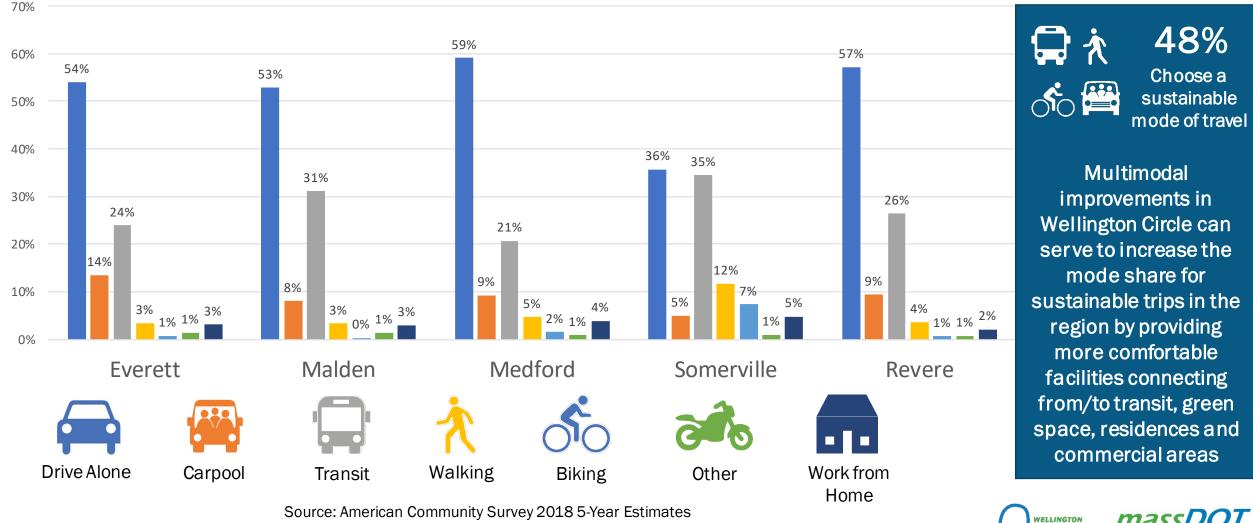
EXISTING CONDITIONS: MULTIMODAL TRANSPORTATION NETWORK

ONE WAY

ONE WAY

Regional Mode Share

Existing Conditions: Multimodal Transportation Network





WELLINGTON CIRCLE STUDY

Walking Conditions

Existing Conditions: Multimodal Transportation Network





Walkability includes all types of pedestrians – facilities going beyond a basic sidewalk, like pedestrian signals and curb ramps at crosswalks, make streets safe and accessible for all.



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Pedestrian Facilities

To Wellington Circle Plaza 2 3 5 To Mystic River State Reservation 5/6 To Station Landing and Wellington Station Signalized roadway crossing Counter-clockwise crossing Walking on sidewalk Unsignalized roadway crossing Clockwise crossing

Existing Conditions: Multimodal Transportation Network

To cross from one corner of Wellington Circle to another may require 5 to 6 individual crossings, demanding prolonged attention, patience for delay, and stamina from pedestrians.



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Bicycle Facilities





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Wellington Circle



Wellington Circle is a gap in the region's bicycle network.

New bicycle facilities should make all ages and abilities feel comfortable.

Legend Two-Way Buffered Bike Lane Dedicated Bike Lane Buffered Bike Lane Off-Street Path Planned Bike Lane Planned Off-Street Path



Walking & Biking - State Goals

Existing Conditions: Multimodal Transportation Network

MassDOT Pedestrian Plan

Vision

All people in Massachusetts will have a **safe, comfortable, and convenient** option to walk for short trips.

Goal 1

Eliminate pedestrian fatalities and serious injuries.

Increase

the percentage of short trips made by walking.

Goal 2

MassDOT Bicycle Plan

Vision

Biking in Massachusetts will be a **safe, comfortable, and convenient** option for everyday travel.

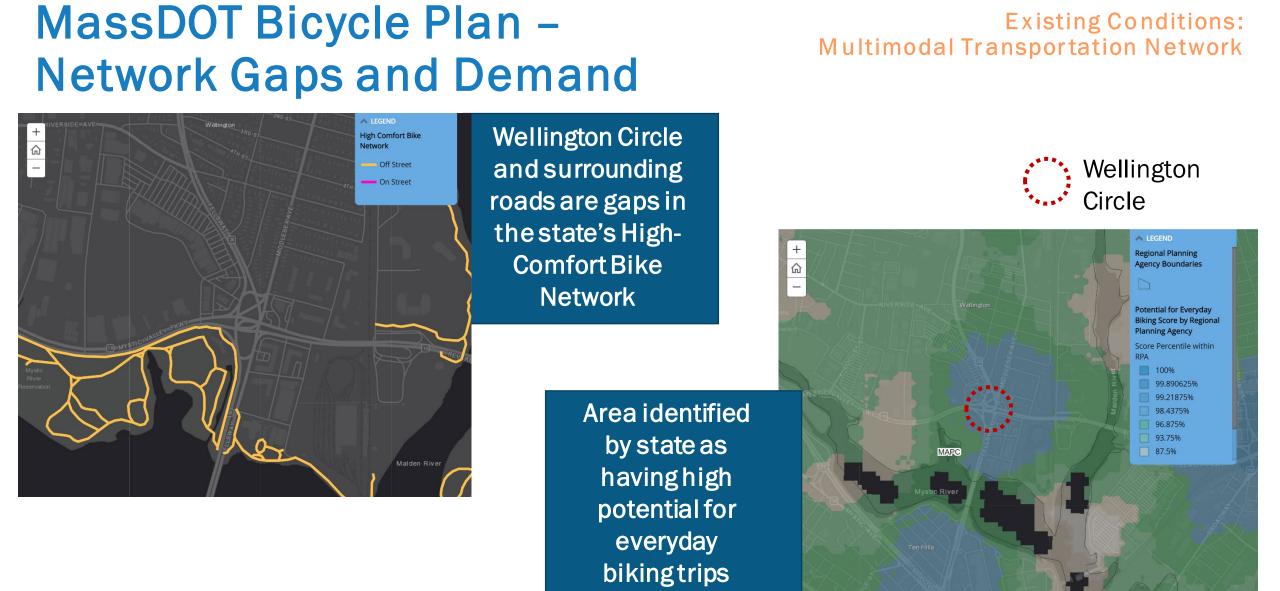
Goal 1

Eliminate bicyclist fatalities and serious injuries.

Increase the percentage of everyday trips made by bicycling.

Goal 2





massDOT

WELLINGTON CIRCLE STUDY

Bus Service in Local Study Area

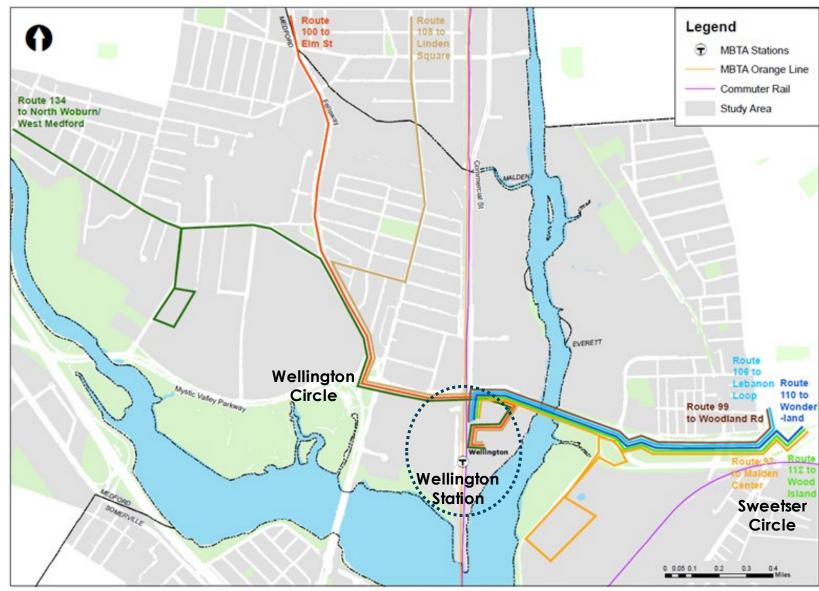
- Buses in the study area operate in the same lanes as general traffic
- This makes bus speed and reliability dependent on the quality of general traffic flow
- The MBTA has used these to measure the impact of traffic on transit riders (see table)

MBTA Automatic Passenger Counter Data is Used to Assess Bus Service between Stops		
Travel Time – Quality of Service (QOS)	Letter grade (A-F) for passengers' perception of travel time	
Travel Time Variability – Quality of Service (QOS)	Letter grade (A-F) for how much passenger travel time varies between trips or days	
Excess Passenger Time (XPT)	Weighted evaluation of bus delay and number of passengers, ranked by percentile	



Bus Service in Local Study Area

Existing Conditions: Multimodal Transportation Network

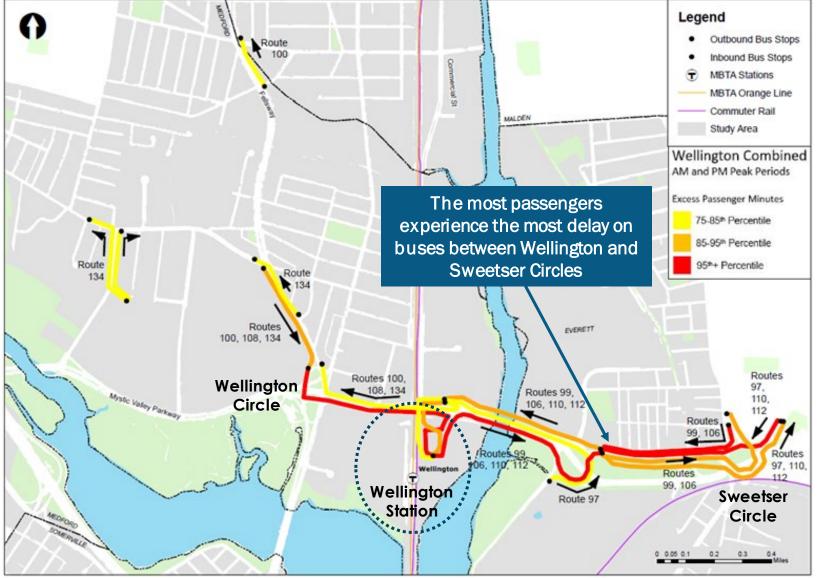


Almost 70% of bus riders in the study area board or alight at Wellington Station.

This shows the potential for improving multimodal connectivity to Wellington Station to support the use of transit.



Excess Passenger Time (XPT)

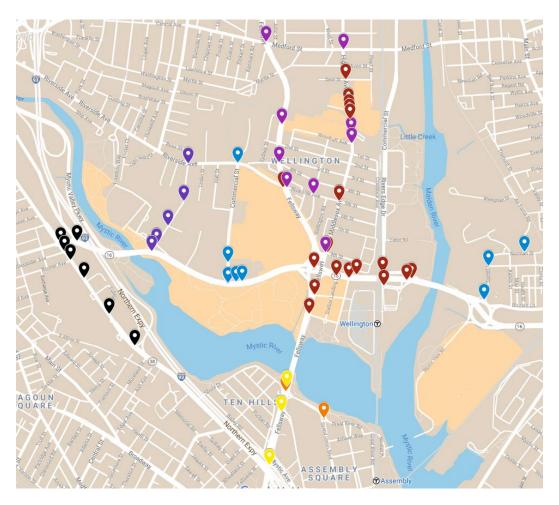


- Excess passenger time (XPT) is the weighted evaluation of bus delay and number of passengers, ranked by percentile
- Under free flow conditions there would typically be no (0%) XPT.
- Most XPT is experienced within ¼ mile of Wellington Station to the east and west.
- 95th percentile segments are the top 5% of segments with the highest rate of excess passenger time (XPT).



Establishing Vehicle Volumes

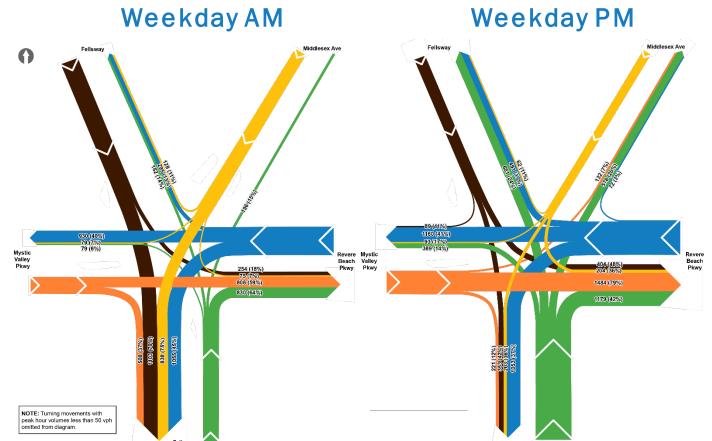
- Volumes have been impacted by COVID-19
- Pre-pandemic count data obtained
 - 9+ different studies
 - Data from MassDOT and CTPS
 - Volumes at Circle primarily from February 2020 Encore traffic monitoring and February 2018 study for Route 1 viaduct in Chelsea
- Volumes adjusted to reflect "typical" conditions





Vehicle Volumes – Peak Hours Comparison

- Key takeaways:
 - Dominant pattern between south and east
 - Highest overall volume on Revere Beach Parkway east of Circle
 - Typical commuter patterns not seen on east/west roadways





Vehicle Queuing and LOS – Weekday AM

Dilicia Legend A 95th Percentile Queueing Beyond Adjacent Intersection Intersection with LOS Rating A Intersection with LOS Rating B Intersection with LOS Rating C STD ST Intersection with LOS Rating D Intersection with LOS Rating E Intersection with LOS Rating F here EDE Valley Plany Revere Beach Plann

Long vehicle queues in westbound and southbound directions.

Existing Conditions: Multimodal

Transportation

Network

Queues at signals in the center of the Circle extend beyond adjacent intersection increasing delays and queuing.

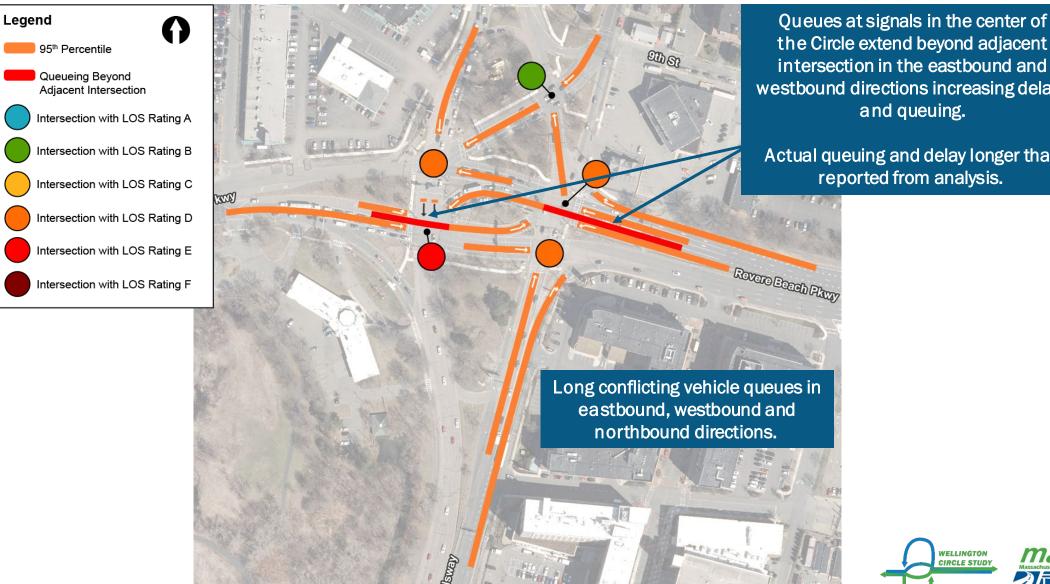
Actual queuing and delay longer than reported from analysis.



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Vehicle Queuing and LOS – Weekday PM

Existing Conditions: **Multimodal Transportation Network**



the Circle extend beyond adjacent intersection in the eastbound and westbound directions increasing delays

Actual queuing and delay longer than reported from analysis.

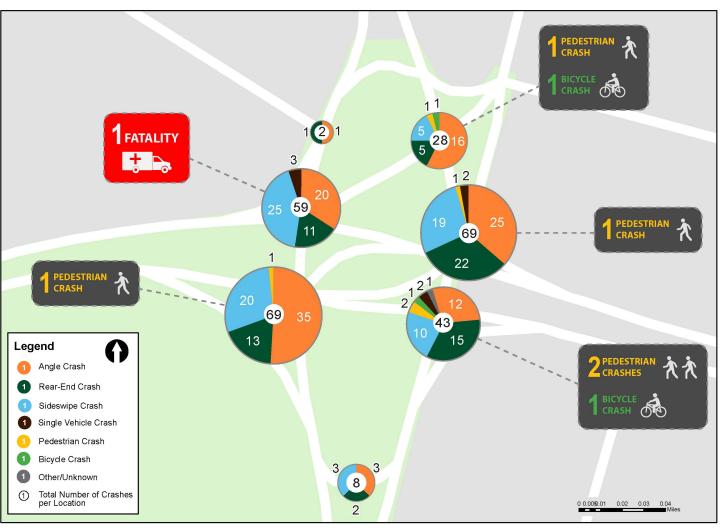


Crash History – Wellington Circle

Existing Conditions: Multimodal Transportation Network

Key takeaways:

- 278 total crashes over three-year period at Circle intersections
- High frequency of angle
 and sideswipe crashes
- Relatively low proportion of rear-end crashes
- Low number of bike crashes correlates with low volume
- Pedestrian crashes at most intersections





ISSUES & OPPORTUNITIES

diameter.

PARKING

EXIT ONLY

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Issues, Constraints and Considerations

Issues & Opportunities

- Safety crashes involving a pedestrian occurred at most Circle intersections
- Multimodal connectivity limited by wide roadways and multiple lanes of traffic
- Multimodal accommodations lack of accommodations are a barrier to local destinations, including Wellington Station
- Vehicular congestion particularly east of the Circle, causing delay for both private vehicles and buses
- Physical constraints
 - Historic Preservation: Roadways comprising Wellington Circle are parkways under historic designation
 - Environmental: Alternatives development process will need to consider impacts to natural elements such as waterways and mature trees







Issues & Opportunities

Opportunities

- Right-of-way Wide roadways, buffers, and sidewalks may provide space for multimodal facilities.
- Changing land use Increasing transit-oriented and mixed-used development around Wellington Station may increase opportunity for short trips to be taken by walking and biking.
- Access to Open Space The proximity of state parks and multiuse paths to Wellington Circle present opportunity to improve access to open space and recreation.
- Compounding gains Together, safety and connectivity improvements may also reduce congestion, improve public health, support active transportation, and improve the experience for walkers, bikers, and transit users.





MEETING ON DEMAND OVERVIEW/PUBLIC COMMENT

HERE

We Want Your Input!

Visit the Meeting on Demand site until July 8 to learn more about the multimodal transportation conditions and provide input!

Meeting on Demand Overview/Public comment

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Study Overview

The Wellington Circle Study is a conceptual planning study to evaluate existing and future multimodal transportation conditions at Wellington Circle in the City of Medford. The study will examine ways to redesign Wellington Circle to provide better connectivity and improve multimodal mobility throughout the area of the City of Medford and surrounding region. The final report will include short-, medium-, and long-term recommendations.



Access the Meeting on Demand using the QR Code or at: http://tiny.cc/WellingtonCirclePIM





Public Comment

- Use Q&A to submit questions/comments in writing
- Press the "Raise Hand" button to share a question/comment verbally



 If you are participating by phone only, you can press the star button then nine (*9) to raise your hand

Comments may also be shared throughout the process via the study comment form



NEXT STEPS

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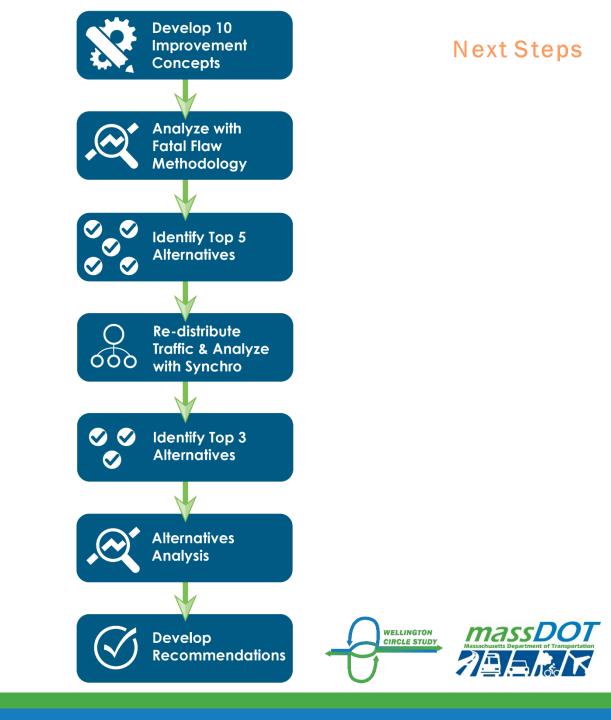
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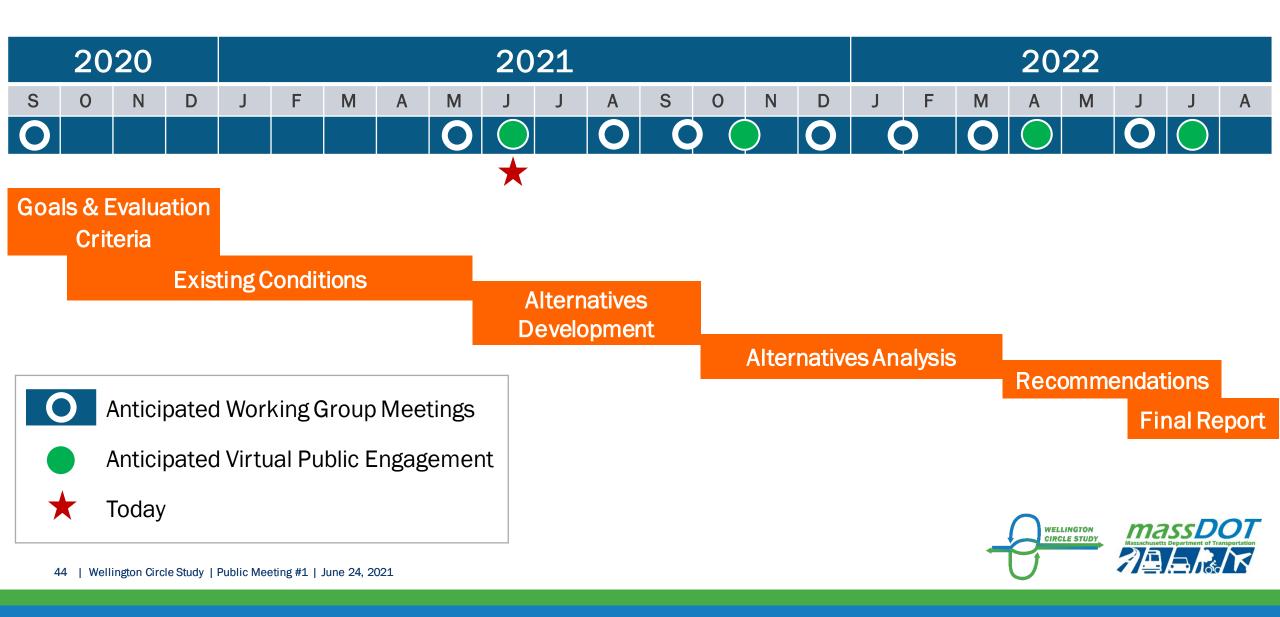
Next Steps

- Online Meeting on Demand
- Future Conditions
- Improvement Concepts and Screening
- Working Group and Stakeholder Input



Draft Study Schedule

Next Steps



Thank You!

For more information:

Makaela Niles, MassDOT Project Manager makaela.niles@state.ma.us

Project Website: https://www.mass.gov/wellington-circle-study



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