



April 14, 2021

COVID-19 Impacts on Parking, Biking, Sidewalks & Streets

Stantec with BETA Group & Nelson\Nygaard







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Stantec:

Jason Schrieber



BETA Group:

Jeff Maxtutis



Nelson\Nygaard:
Alyson Fletcher



Agenda

Parking
Biking
Walking
Transit
Streets
Mobility

- Welcome & Introductions (2m)
- Overview of Mobility Post-COVID (8m)
- Case Studies: (25m)
 - Plymouth MA
 - Amherst MA
 - East Providence RI
 - Wayland MA
 - Natick MA
 - Silver Line
- Summary and Panel Q&A (5m)
- Attendee Q&A (20m)

























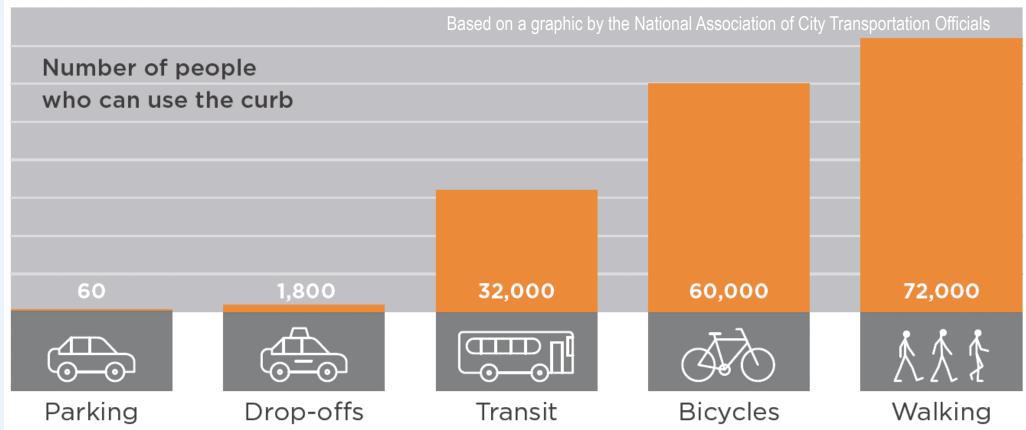








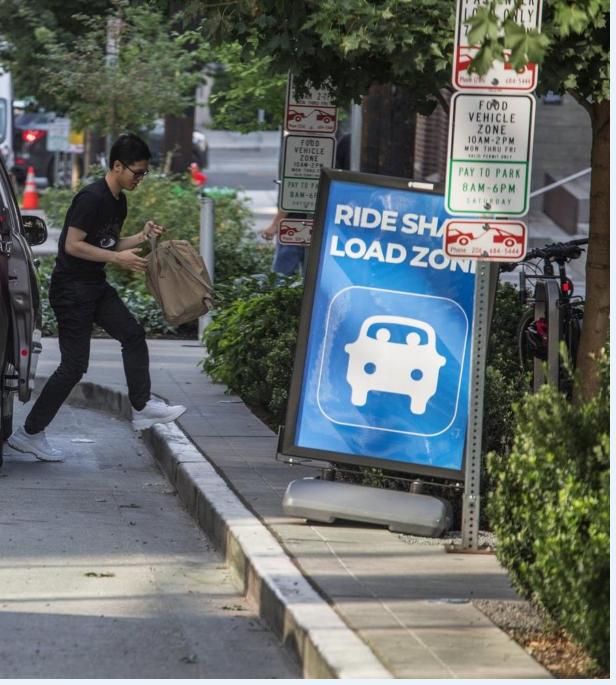
Reconsider the Curb











Cincinnati, OH

Seattle, WA







Santa Monica, CA







Seattle, WA

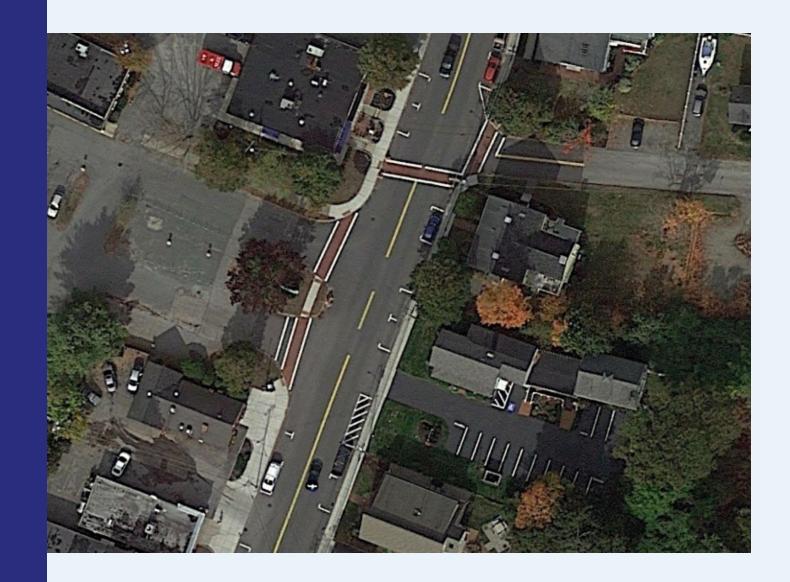


Paris, France





Milan, Italy



Topsfield Main Street Before



Topsfield Main Street After- Repurposed parking spaces for outdoor dining, new curb extensions, and new lighting fixtures







Main Street today- The enhanced crosswalks at several locations along Main Street encourage traffic calming in combination with other elements to make downtown more inviting and safe, particularly in the evening





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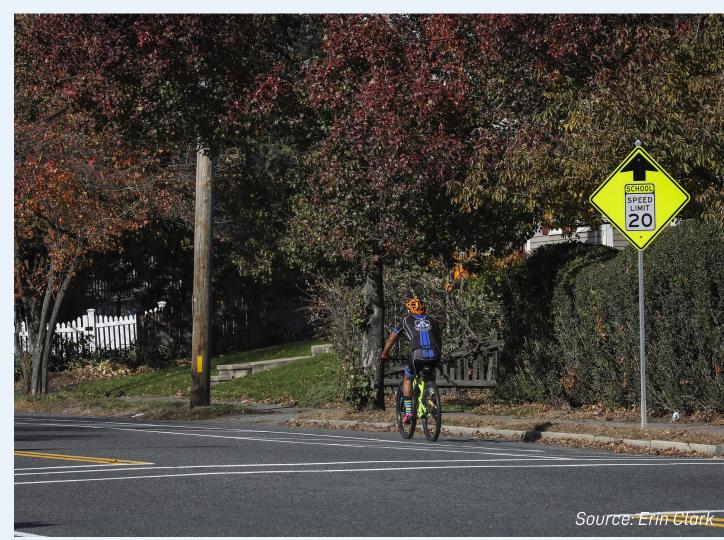




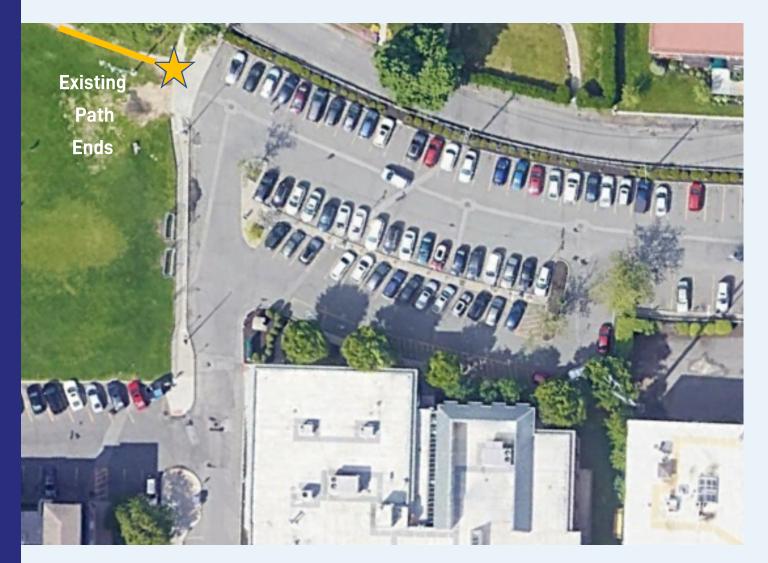
Brook Road Before- No bike lanes or signage along key corridor featuring two schools, a transit route, and recreational facilities

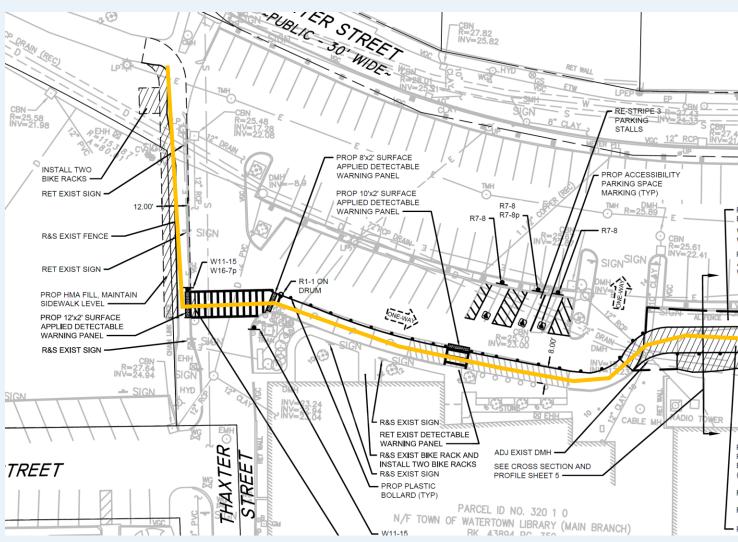
Brook Road After- New protected bike lanes and signage on both sides of the street, and road diet for traffic calming





Brook Road today- Significantly improved on-street bicycle facilities and road diet for traffic calming near crosswalks supports Safe Routes to School





Rear of Library before- No connection from existing community path heading east behind the library and fire station. Pedestrians must navigate through parking lots without sidewalks.

Rear of library after- New crosswalk and delineated pedestrian path defined, along with detectable warning surfaces and new bike racks





Community Path today- The new defined sidewalk area encourages safer transitions in this busy area behind the public library for pedestrians, and also better accommodates bicyclists with the addition of new bike racks.



School Driveway Before- Undeveloped rail bed, no pedestrian crossing, and minimal bicycle infrastructure near the school



School Driveway After- Improved bicycle infrastructure and pedestrian crossing for connections to the new rail trail







Rail Trail Partnership- Middleton Department of Public Works with volunteer labor from the Middleton Electric Light Department and the Middleton Rail Trail Alliance

Rail Trail Today- Residents and students utilize the trail to enjoy the outdoors and for Safe Routes to School while practicing social distancing

"Twenty-seven per cent of the American workforce will be remote in 2021. (Upwork)

"About twenty million workers have moved—many of them out of major cities—or are planning to." (The New Yorker)

"San Francisco vacancy rate of more than sixteen per cent, the highest on record." (CBRE)

"Thirty per cent of supervisors said that their workers were more productive at home; only seven per cent said people were getting less done." (R/GA)

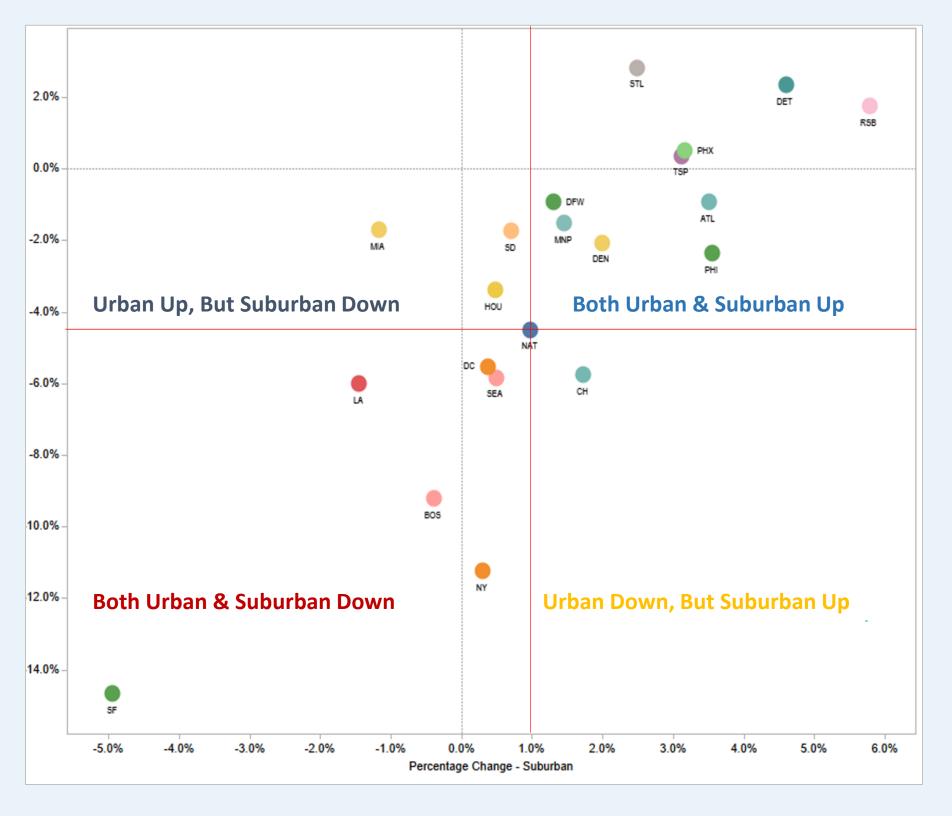
"Face-to-face interactions dropped by roughly 70% after the firms transitioned to open offices, while electronic interactions increased to compensate."

(Harvard Business Review in December, 2019)

Reality #1:
COVID-19 has
not caused a
flight from
density

Downtowns remain our most valuable places

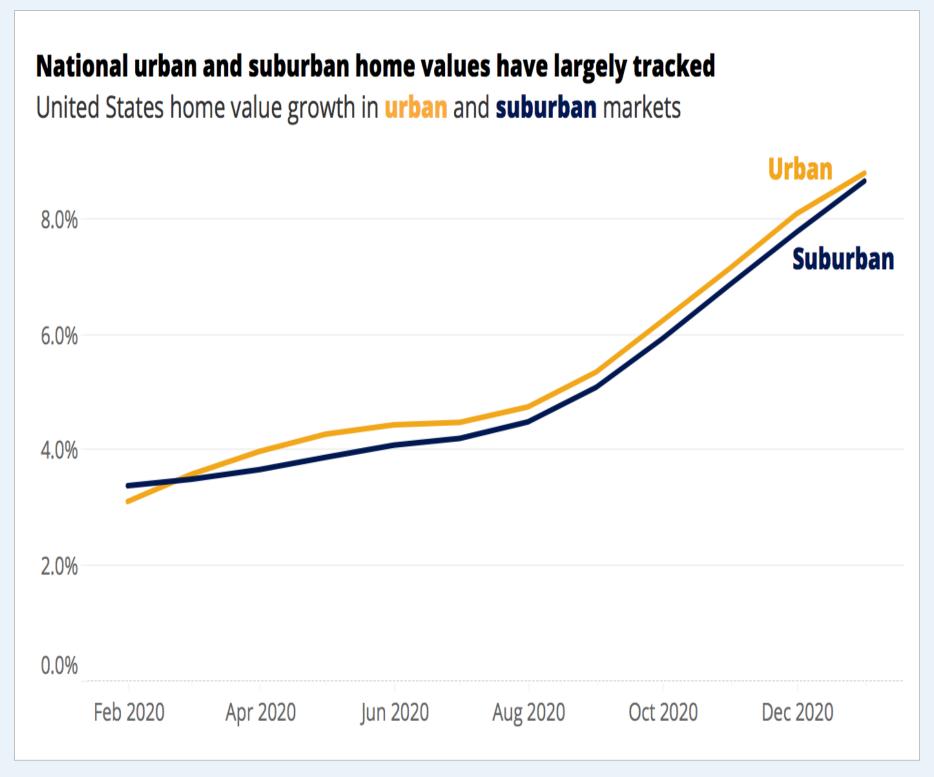
> Top 20 Rental Apartment Markets % Change in Rents, Urban vs. Suburban 2020-21 (RCLCO)



Reality #1: COVID-19 has not caused a flight from density

Downtowns remain our most valuable places

> Across the US urban housing values slightly outpaced suburban values over 2020 (Zillow)



Reality #2:
Working from
home has not
made us more
productive

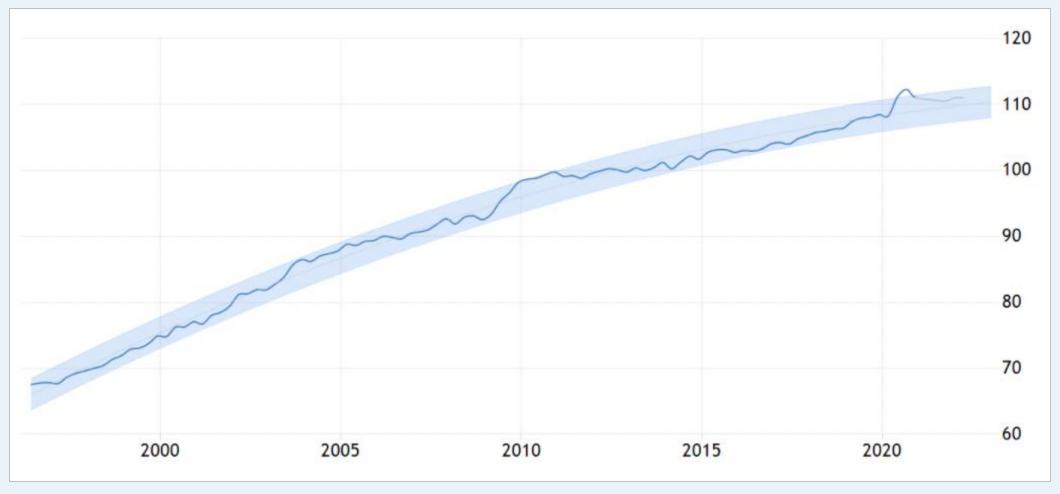
Commuters will need to get back to the office



Source: TradingEconomics.com | U.S. Bureau of Labor Statistics

Reality #2:
Working from
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made us more
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Commuters will need to get back to the office



Source: TradingEconomics.com | U.S. Bureau of Labor Statistics

Working from home will increase, but only 6 hrs. more per week from 2019

Commuters will need to commute

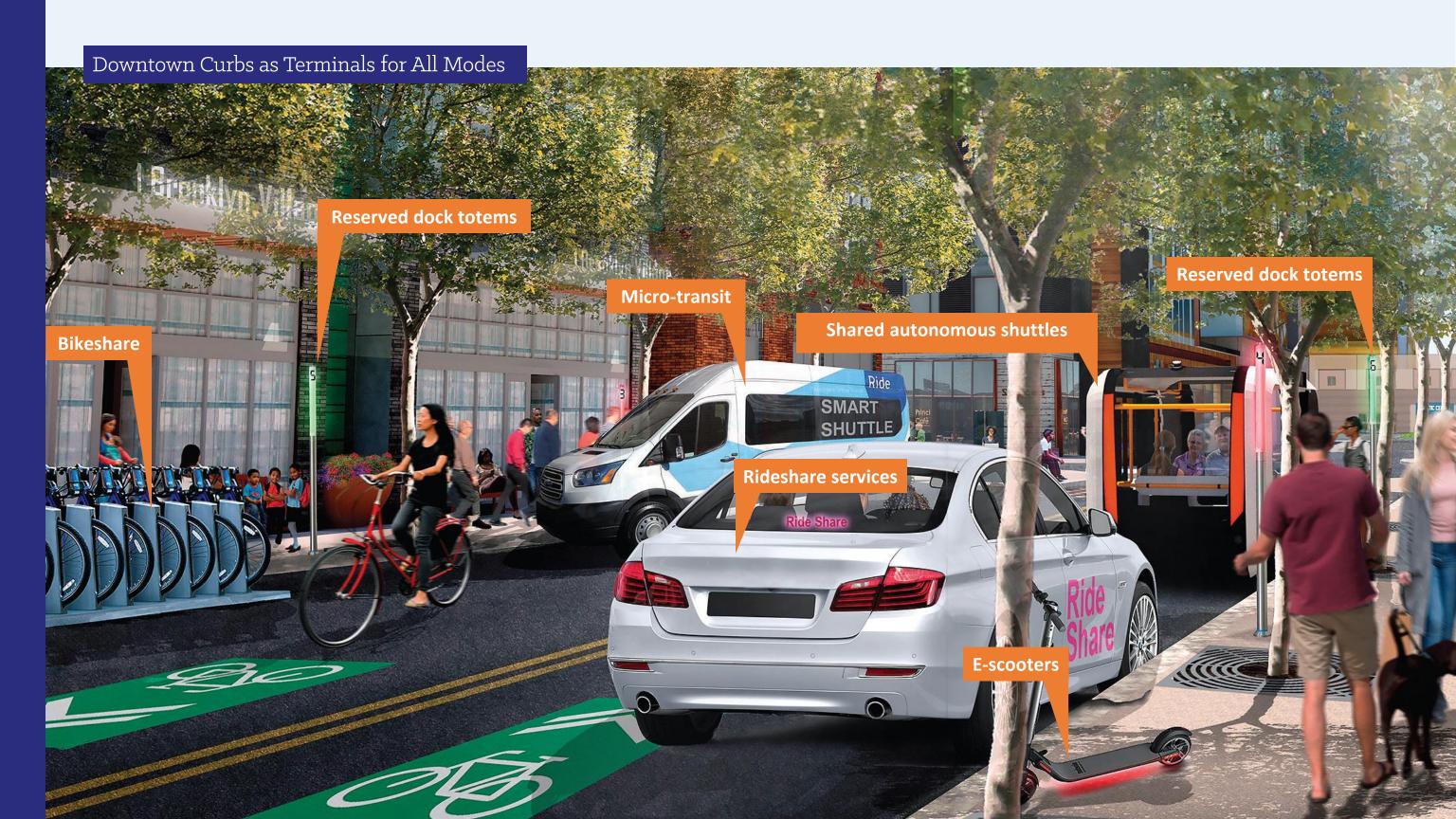
Scenario	Telecommuting		
	Percent	Days/Wk	Typical Day
Pre- COVID-19	20%	1.75	7.0%
Peak COVID-19	80%	5.00	80.0%
End 2020	50%	5.00	50.0%
End 2021	35%	2.50	17.5%

Source: Sam Schwartz, Transport Chicago 2020 (Derived from multiple sources, including U.S. Census Bureau, National Bureau of Economic Research, C2Smart, Port Authority of New York & New Jersey, Stantec, RPA Presidents Report, Federal Reserve Bank of Atlanta) Reality #3:
Commuters
will need to
commute

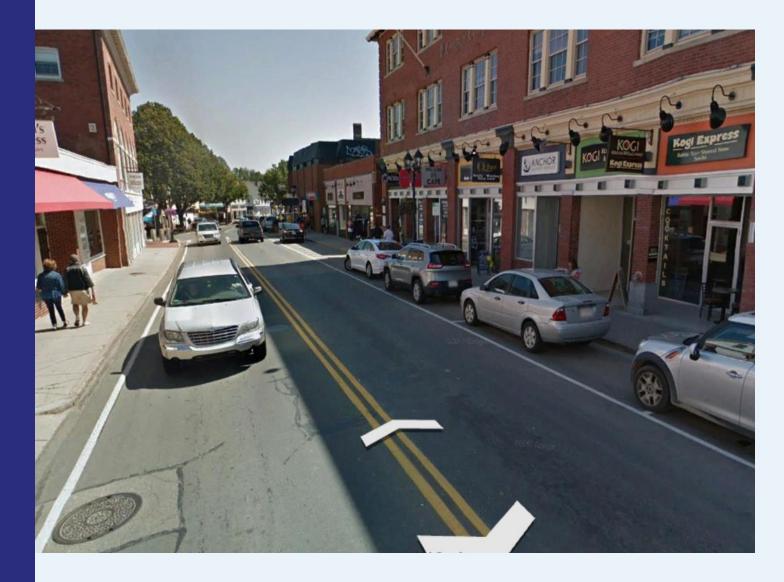
Everyone will not be able to just start driving



Source: TradingEconomics.com | U.S. Bureau of Labor Statistics





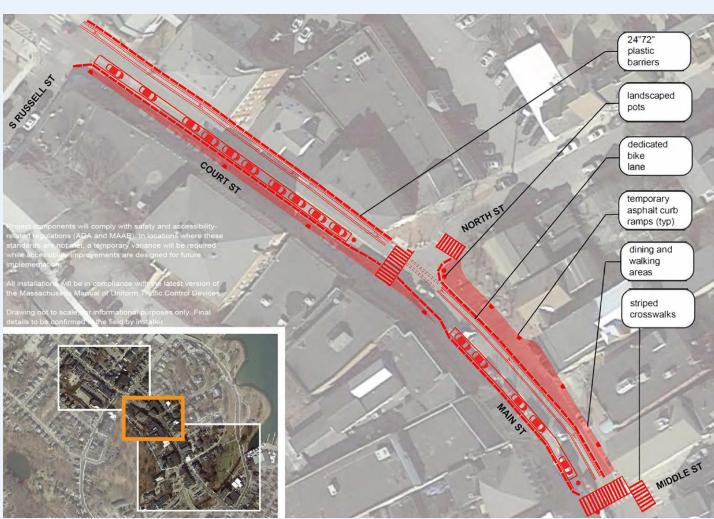




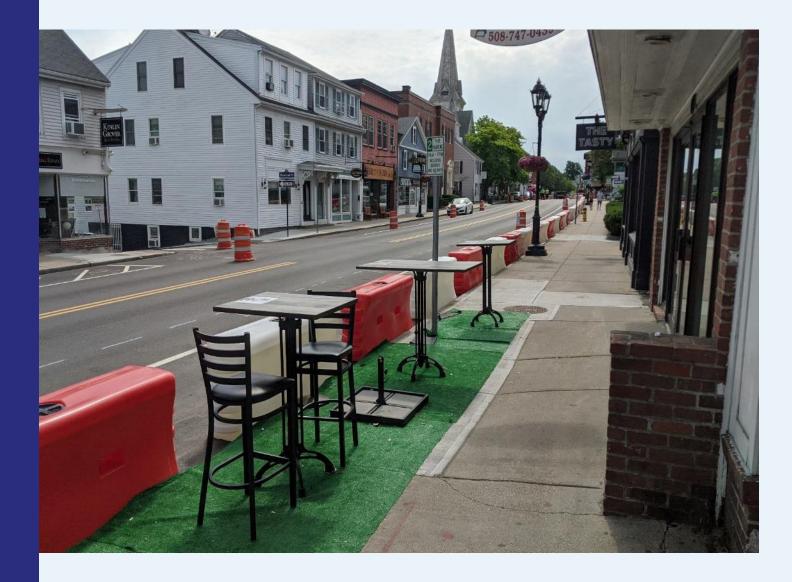
Main Street/Court Street prior to COVID-19 (2-way road)



Main Street/Court Street Before



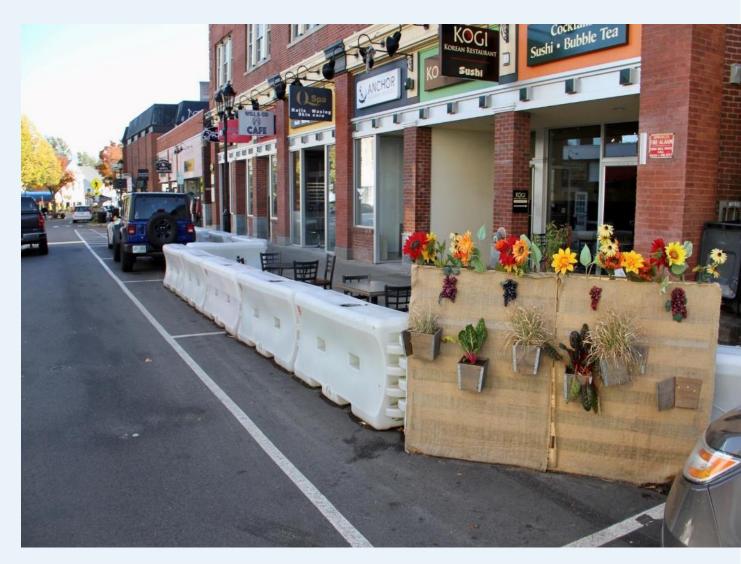
Main Street/Court Street After





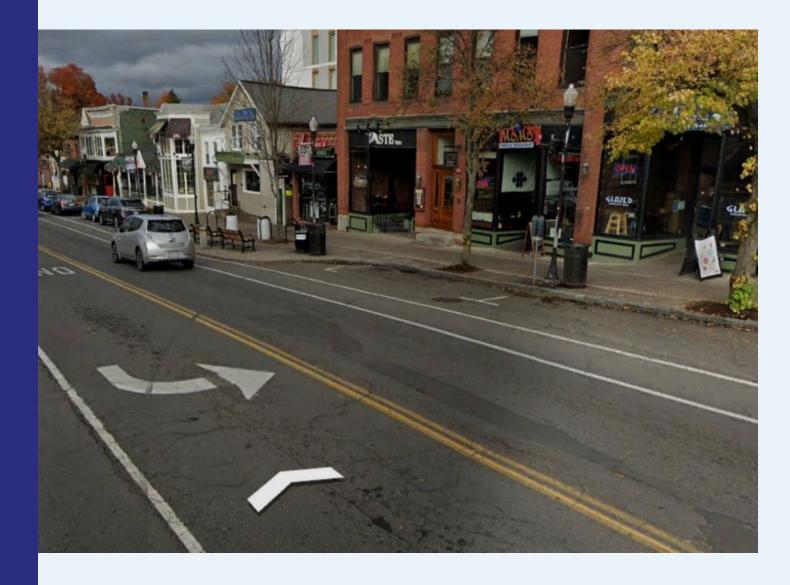
Main Street/Court Street post-installation- road converted to one-way southbound, outdoor dining areas, parking removed





Main Street/Court Street post-installation- road converted to one-way southbound, outdoor dining areas, parking removed





N. Pleasant Street prior to COVID-19

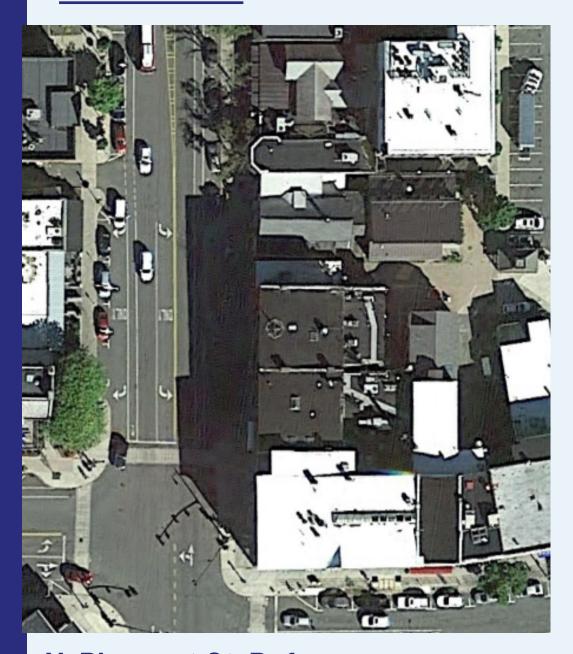


S. Pleasant Street prior to COVID-19





N. Pleasant Street post-COVID prior to the grant- Dining occupies parking spaces, however northbound bike lane is obstructed



EXISTING WOOD BLOCK ACCESS RAMPS (TYP.) Judie's **5 PARKING SPACES REMOVED 8 PARKING SPACES REMOVED (CURRENT) Typewriter** STRIPED GORES DESIGNATED DROP-OFF/PICK-UP ZONES McMurphy's Mass Vintage LANDSCAPED POTS (TYP.) **EXISTING JERSEY BARRIERS** Antonio's **Pedestrian Access to** DOWNCAST LIGHT FIXTURES **Taste Thai Boltwood Parking (see Project Area 2)** SKIPPED LANE MARKINGS Momo **DETECTABLE WARNING SURFACES** Glazed SIGNAGE TO PUBLIC PARKING Arigato Subway

N. Pleasant St. Before

N. Pleasant St. After



N. Pleasant Street roadway realignment- In order to expand dining areas and maintain a bike lane, one vehicle lane (right-turn only) was removed and the roadway was re-striped



S. Pleasant Street roadway realignment- In order to expand dining areas and maintain a bike lane, a center median was removed and the roadway was re-striped





N. Pleasant Street today- curbside pickup, outdoor dining area, realigned roadway, parking removed, bike lane maintained, heating element, art/landscape features



S. Pleasant Street today- expanded dining area accommodates more customers while allowing for social distancing



Town Common today- People utilize the new picnic tables and practice social distancing

Thank You!

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Senior Associate, Transportation Planning Lead, BETA Group, Inc.



Repurposing Roadway/ Parking space examples - Providing Connections

Case Studies

- East Providence, Rhode Island
- Wayland, Massachusetts
- Natick-Wayland, Massachusetts

Watchemoket Square – 1st Street Pilot Project

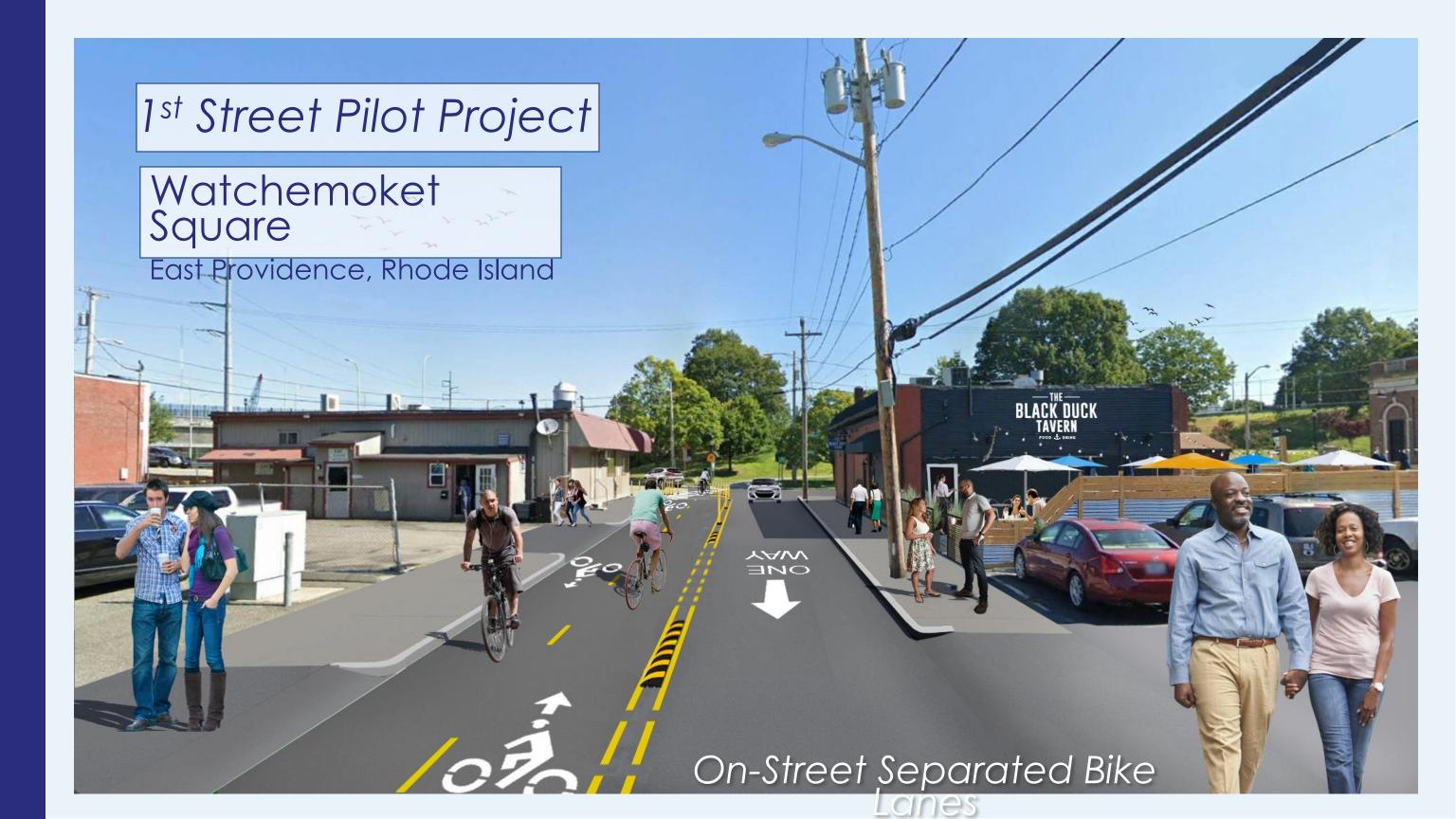
East Providence, Rhode Island

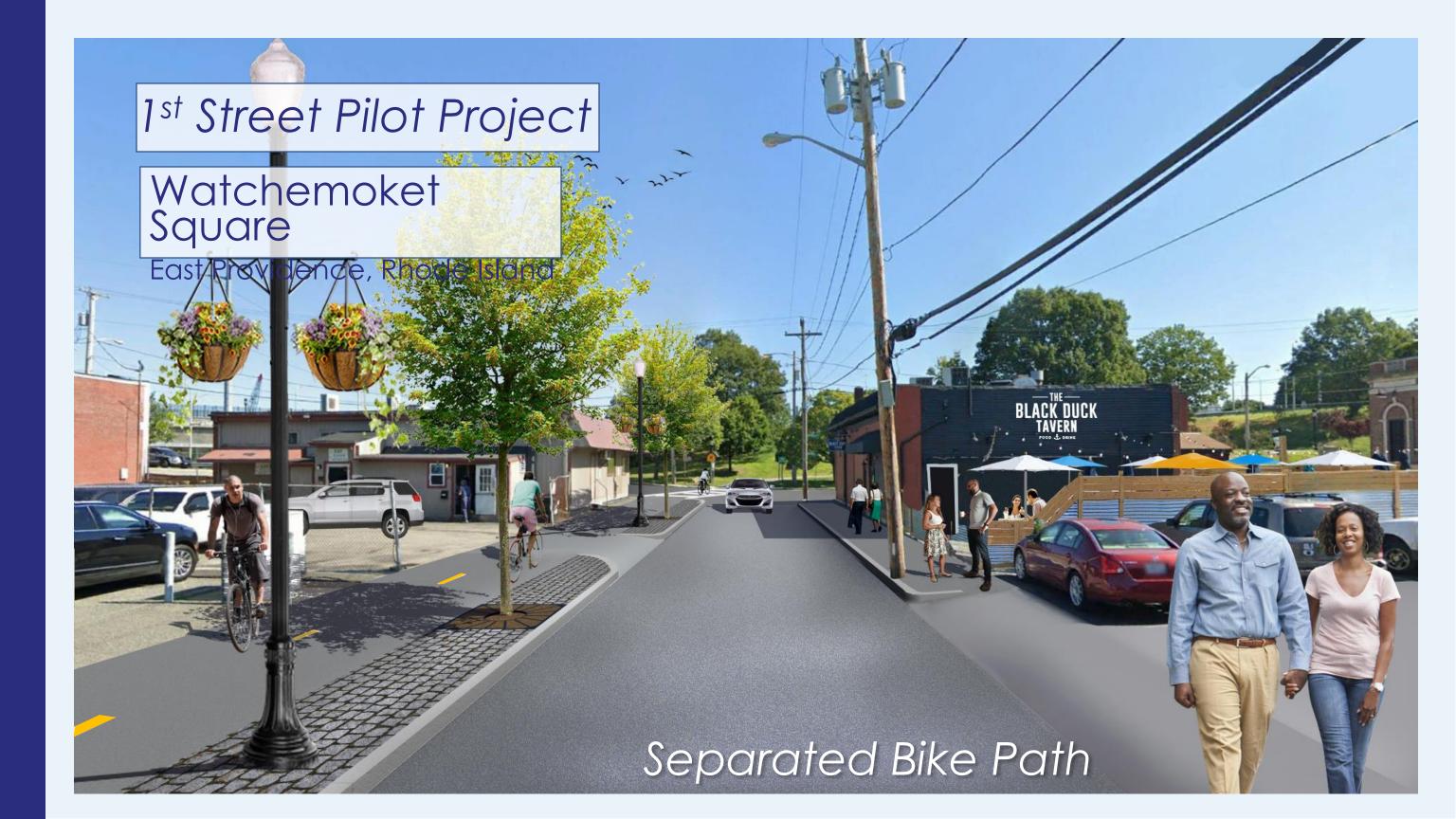


- Provide separated bike lanes that close the gap in the East Bay Bike Path
- Activates businesses that builds on open space, recreational opportunities, art, and outdoor activity
- Generates public awareness and improves safety for cyclists of all ages
- First step in a long-range plan to activate development/redevelopment, recreational opportunities, open space, and public art







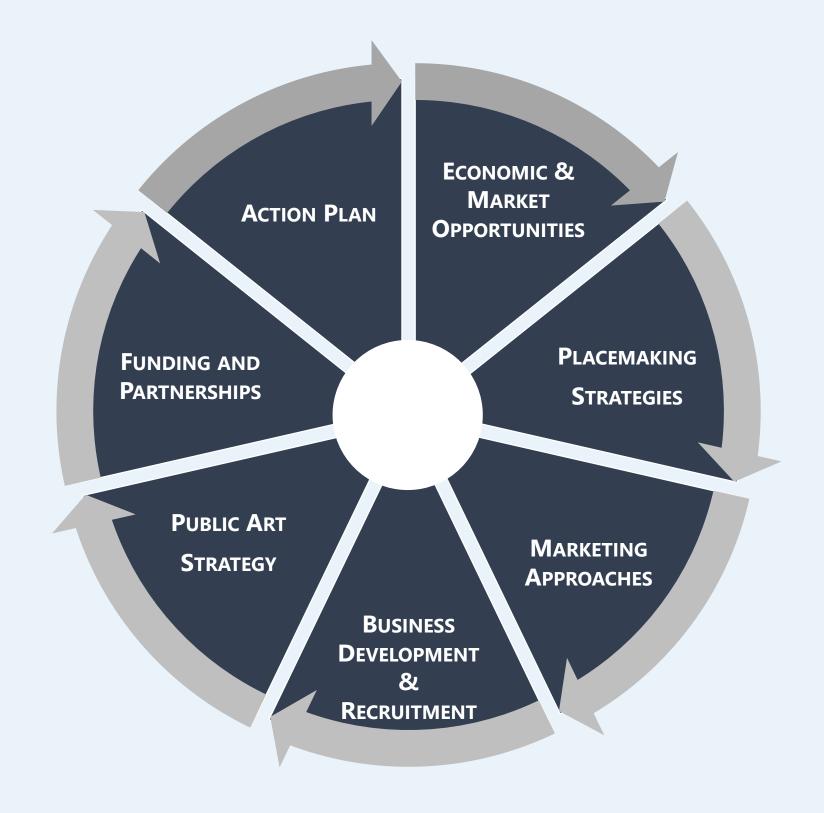


Watchemoket Square

First Street Pilot Project East Providence, Rhode Island

How can active transportation stimulate business?

- Less auto-centric population
- Commuters and recreational riders of all ages
- Opportunities to serve active Lifestyle users: outdoor eating, recreation, placemaking, art, bike shop





- Repurpose off-street parking for outdoor dining
- Provides a new connection between Boston Post Road (Rt.20) and Mass Central Rail Trail/East Coast Greenway
- Provides connection to Wayland Town Center
- Stimulate business and improve connectivity

Shared Winter Streets and Spaces

Wayland, MA – 336 Boston Post Road



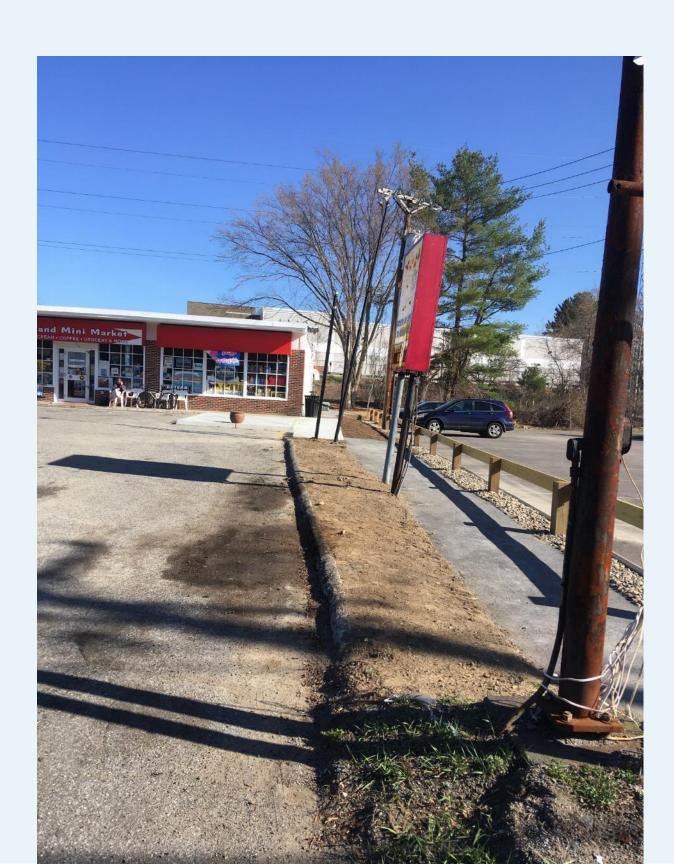
Shared Winter Streets and Spaces Wayland, MA – 336 Boston Post Road



Shared Winter Streets and Spaces

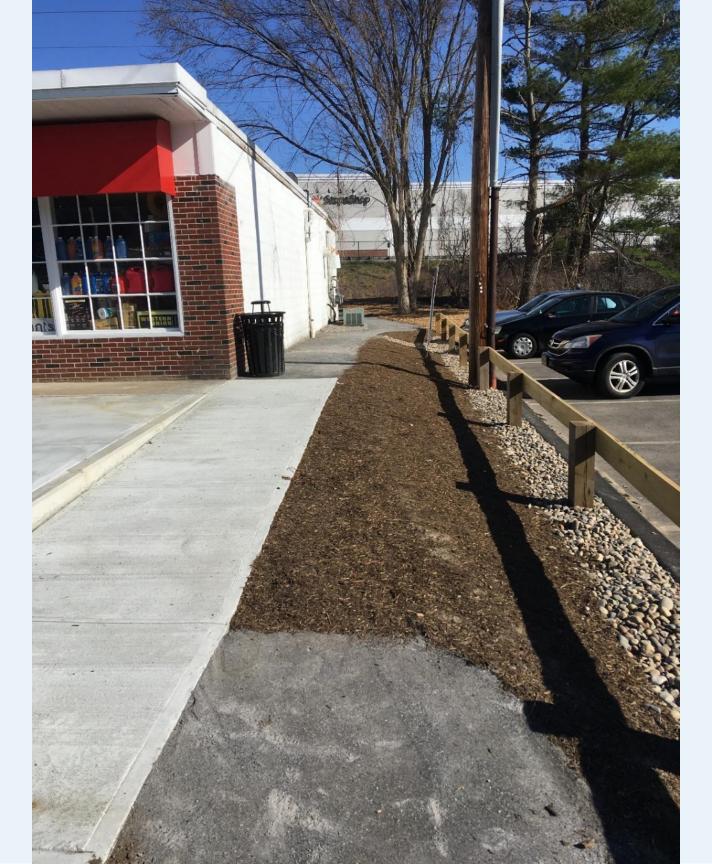
Wayland, MA – 336 Boston Post Road





Shared Winter Streets and Spaces







- Repurpose Elissa Avenue (private road) for outdoor dining
- Provides a new connection between Town Center and Mass Central Rail Trail/East Coast Greenway
- Links to Boston Post Road through #336 project
- Activates restaurants
- Creates pedestrian area and opportunities for additional recreation (pickle ball)

Shared Winter Streets and Spaces

Wayland, MA – Wayland Town Center











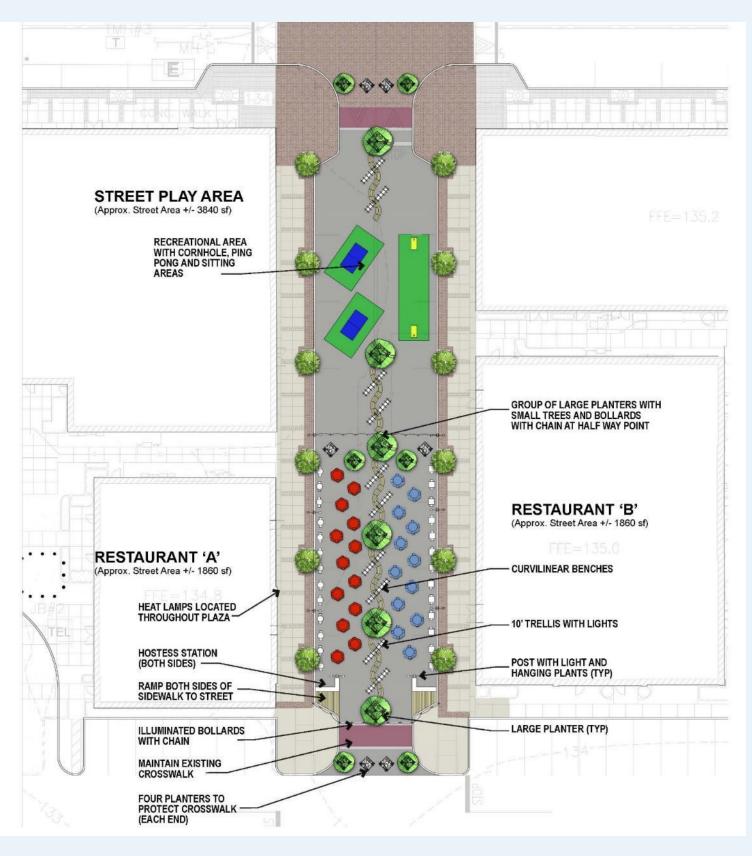




Shared Winter Streets and Spaces

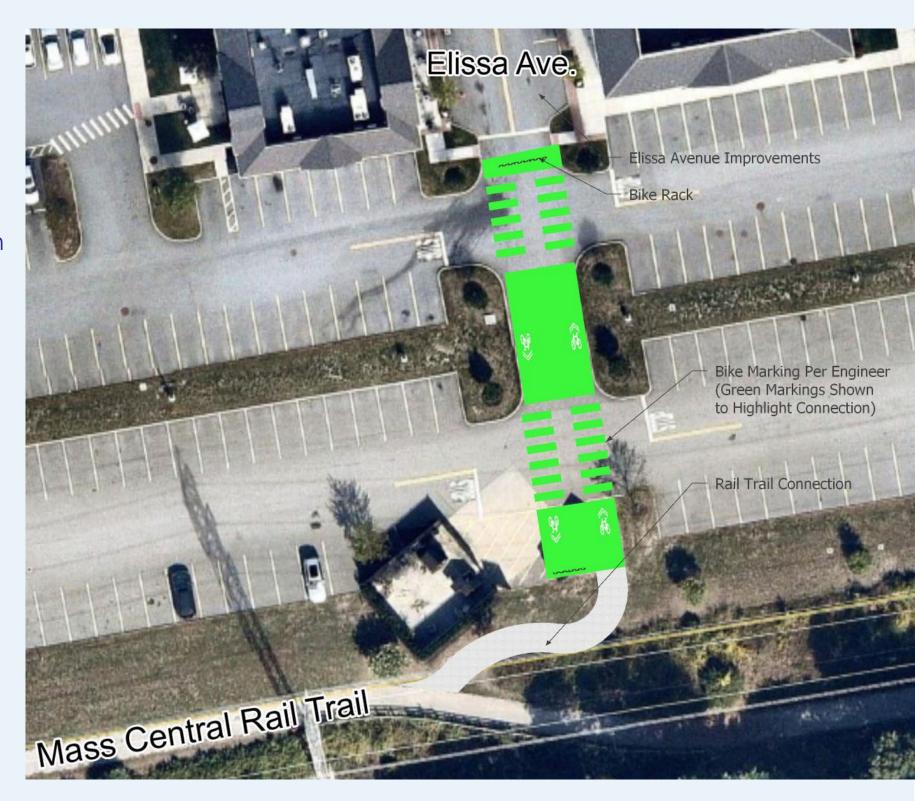
Wayland, MA – Wayland Town Center





Shared Winter Streets and Spaces

Wayland, MA - Elissa Ave Wayland Town Center

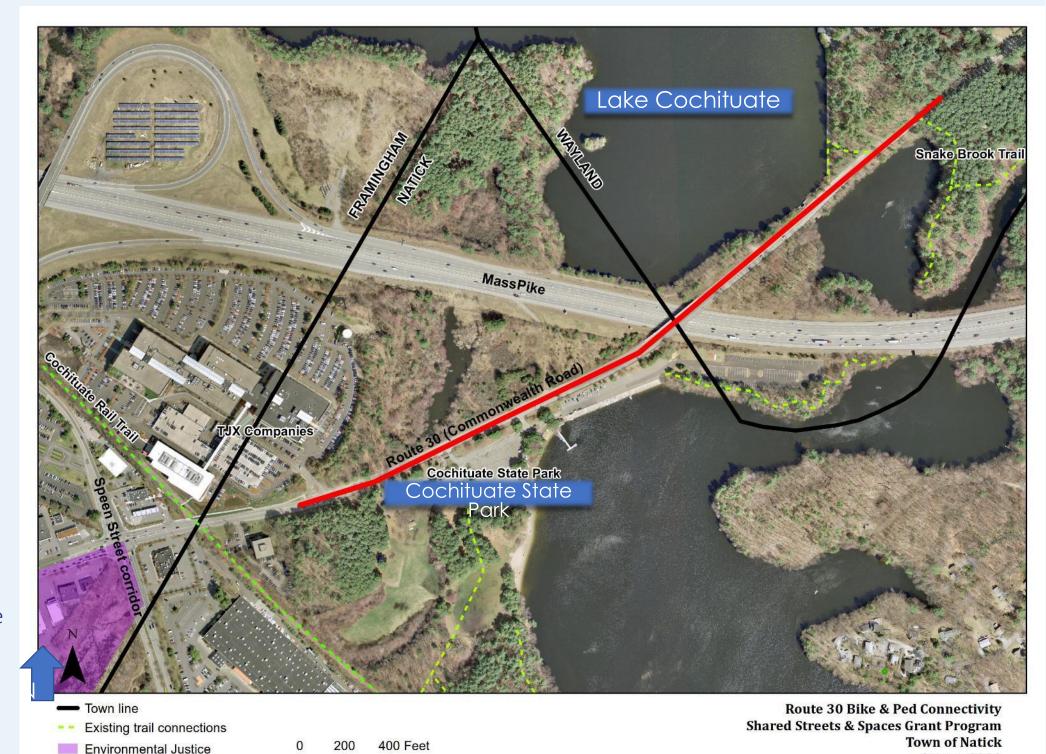


Shared Winter Streets and Spaces

Natick-Wayland, MA – Route 30 Pedestrian and Bicycle Facility

- Repurpose existing shoulders on Rt. 30 (Commonwealth Road)
- Increase bicycle and pedestrian accessibility, safety, and connectivity
- Provide connections with Cochituate State Park, Cochituate Rail Trail, and office employees
- Collaborative effort between Natick and Wayland
- Coordinate with MassDOT and DCR

Project Limits

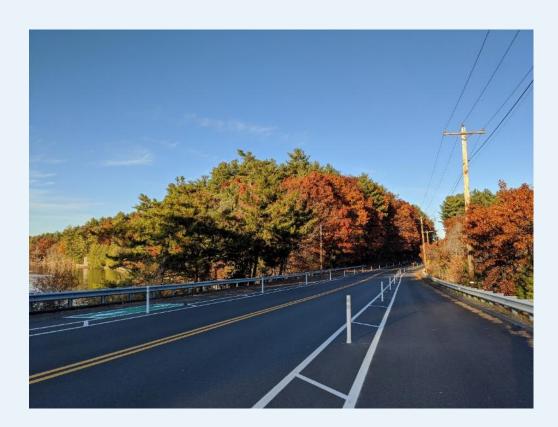


August 2020

Shared Winter Streets and Spaces

Natick-Wayland, MA – Route 30 Pedestrian and Bicycle Facility







Shared Winter Streets and Spaces

Natick-Wayland, MA – Route 30 Pedestrian and Bicycle Facility







Thank You!

Jeff Maxtutis

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We Put People



First

Developing transportation systems to promote broader community goals of mobility, equity, sustainability, health, and economic development



Transit



Transit Corridors



Active **Transportation** and Safety



Cities and Streets



Parking and Demand Management



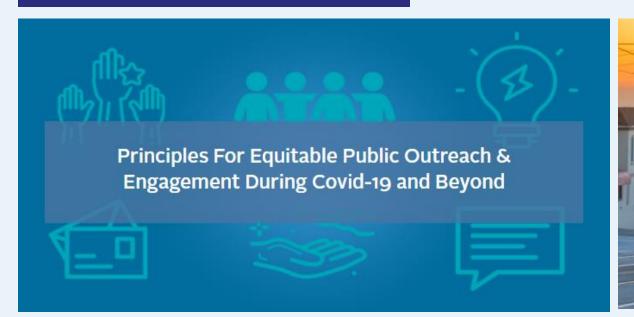
Paratransit and Community **Transit**



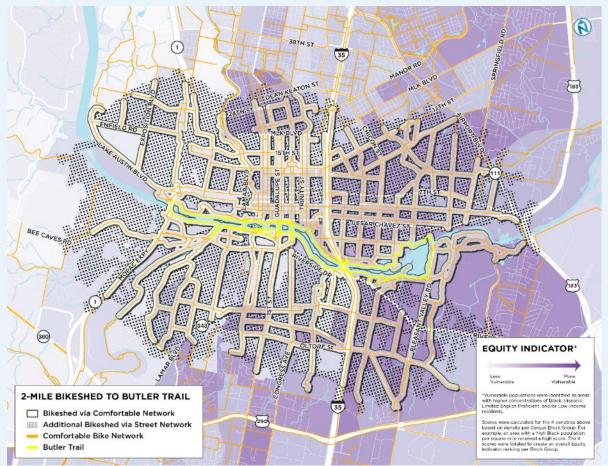
Emerging Mobility



Engineering and Design

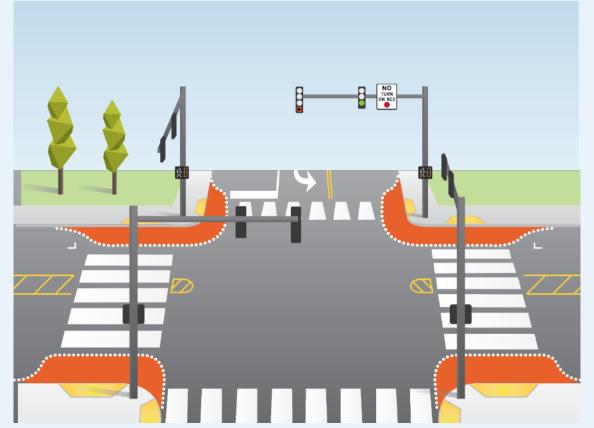




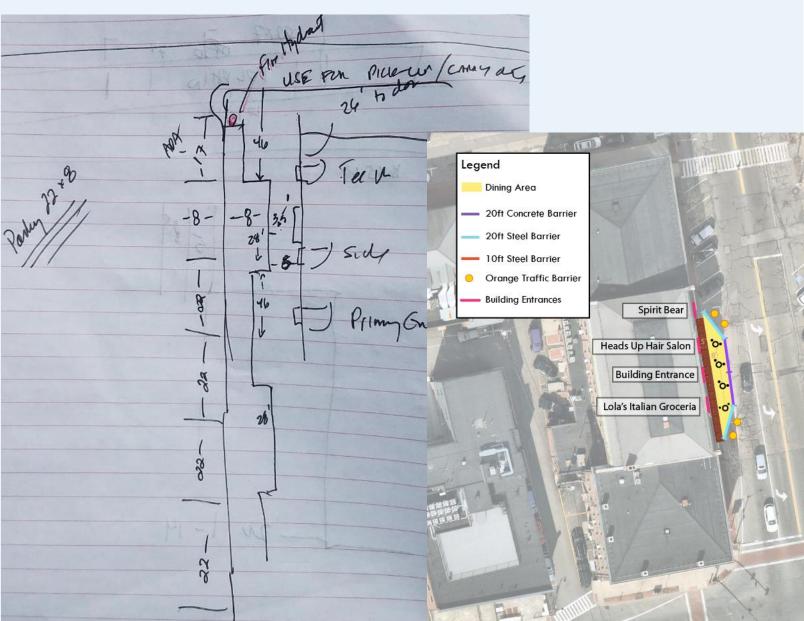




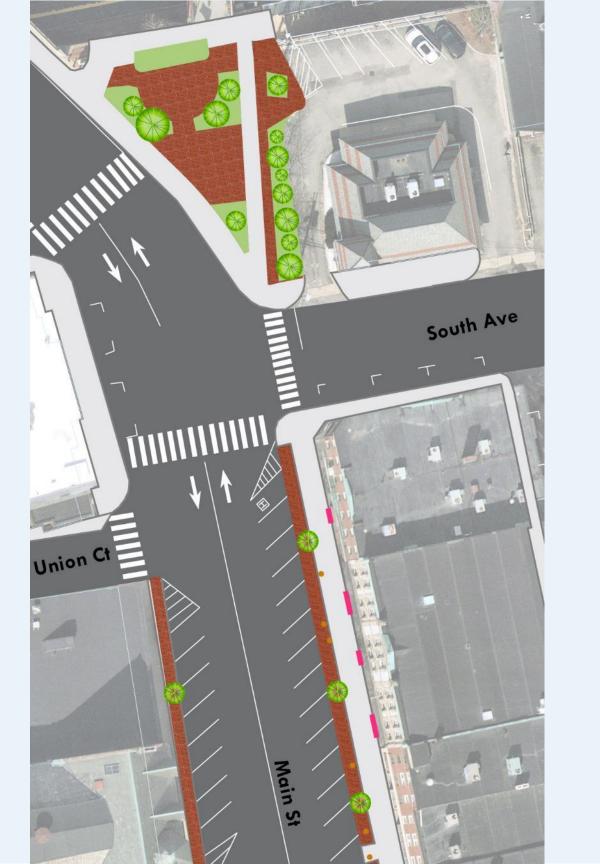
• Public Realm Planning in Natick

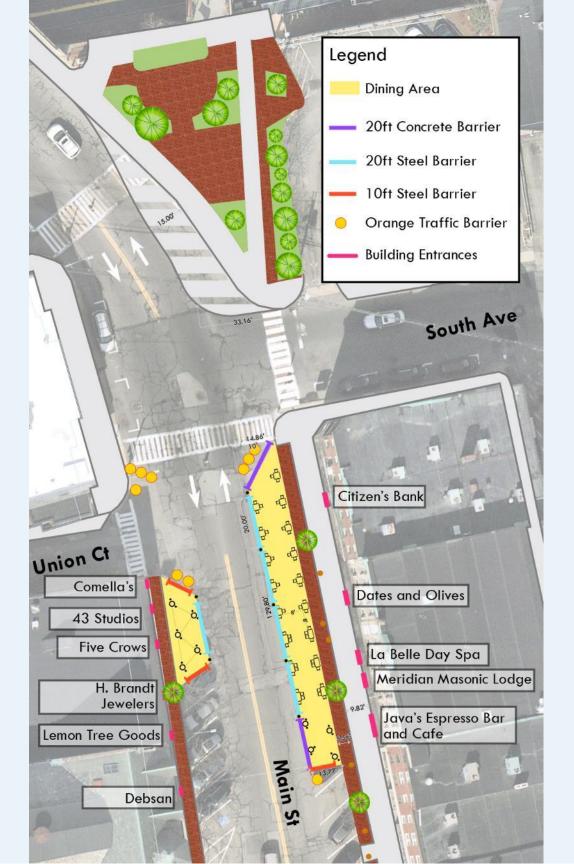


Safety Demonstration Pilots



Converting On-Street Parking to Streeteries









Natick Center Pedestrian Safety Test

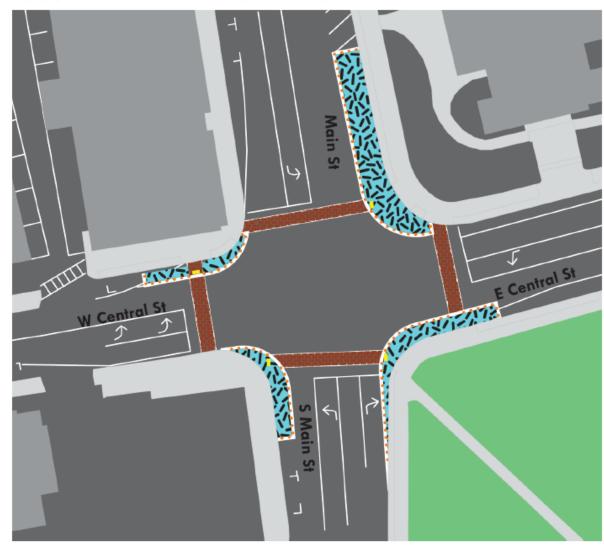
This safety test uses temporary materials to explore opportunities to increase user safety and reduce speeding, creating a comfortable and attractive walking and biking environment without reducing throughput.

Schedule: 9/25 + 9/26 - Observations and adaptations based on performance of straw tube and cone layout. 10/2 Weekend - Apply paint and bollards to updated layout. TBD Date - Remove bollards around first snow.

Increase visibility of people walking.

Pedestrians are more visible and safe when in the crosswalk. Bumpouts reduce the distance and time a pedestrian spends crossing the streets. The longer a pedestrian is in a crosswalk, the more vulnerable they are to being struck by a vehicle and the longer it takes to cross, the less likely people of all ages could make their way across the street on foot.

Reducing speeds of turning vehicles enhances intersection safety.



People-oriented Natick Center

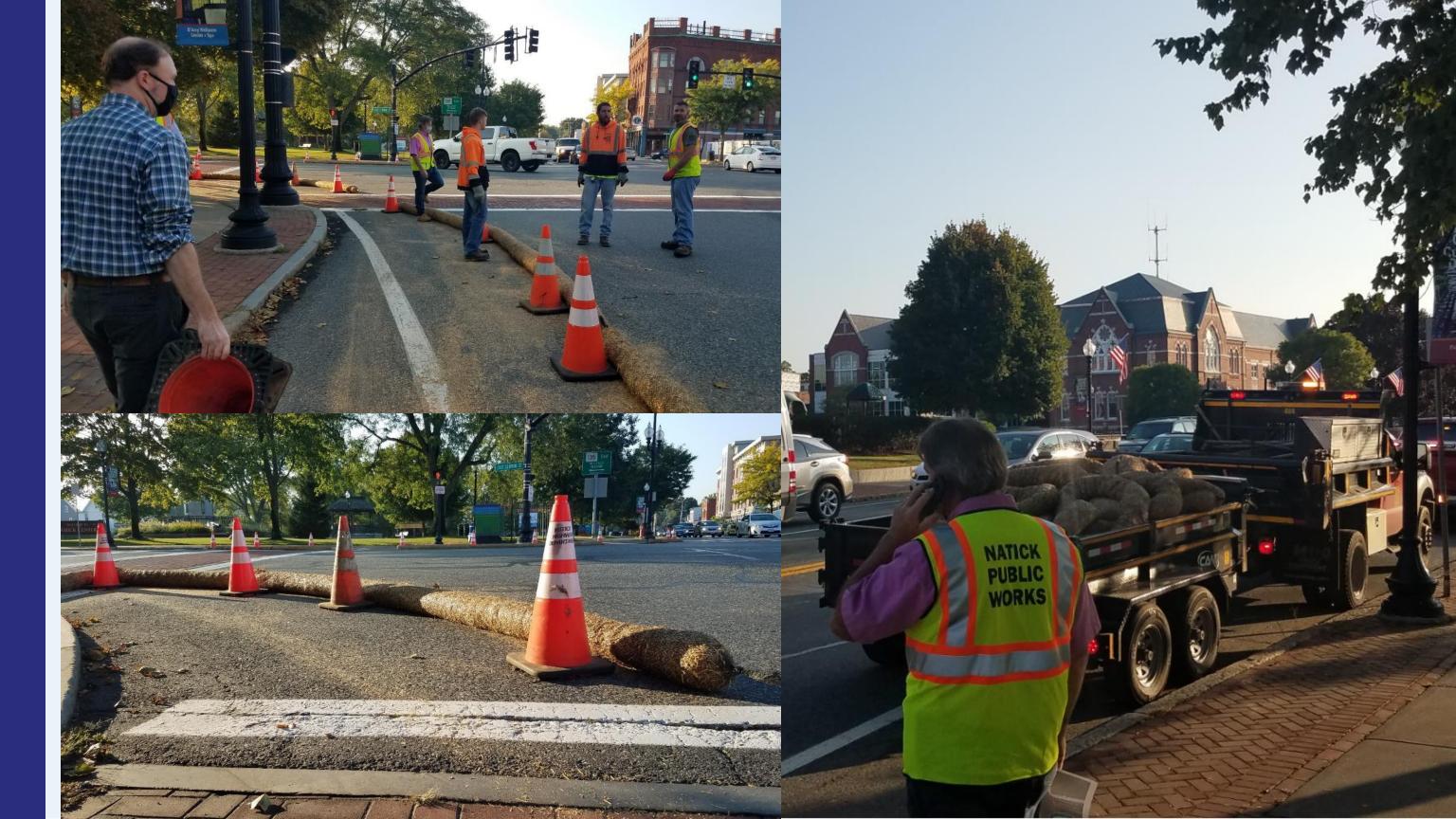
Reclaiming excess pavement opens up opportunities for seating areas, green space, public art and more.

Reduced traffic congestion and parking demand.

A more comfortable and attractive pedestrian environment encourages people to walk or bike rather than drive to the Center. This reduces congestion and makes more parking available for those that need it.

Let us know what you think! Please complete this survey: https://www.surveymonkey.com/r/NatickCenterSafety

Natick Center's safety test was made possible through the support of a grant from Massachusetts Department of Transportation (MassDOT) Shared Streets & Spaces Program.





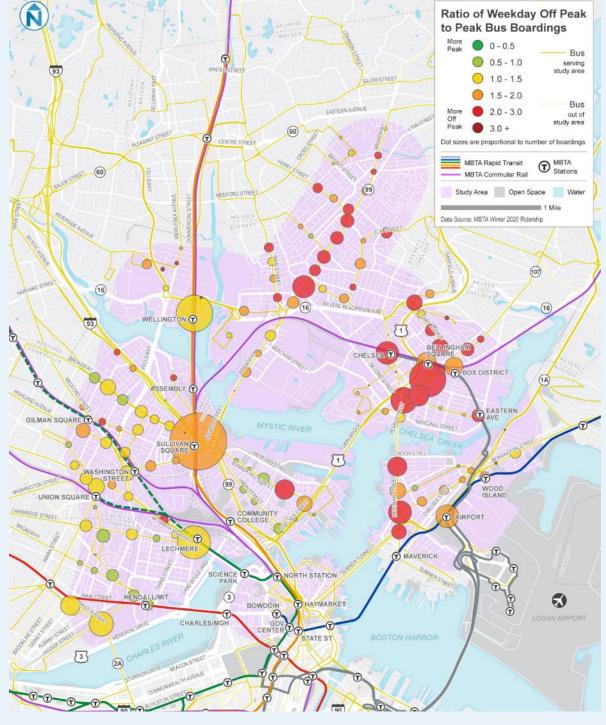




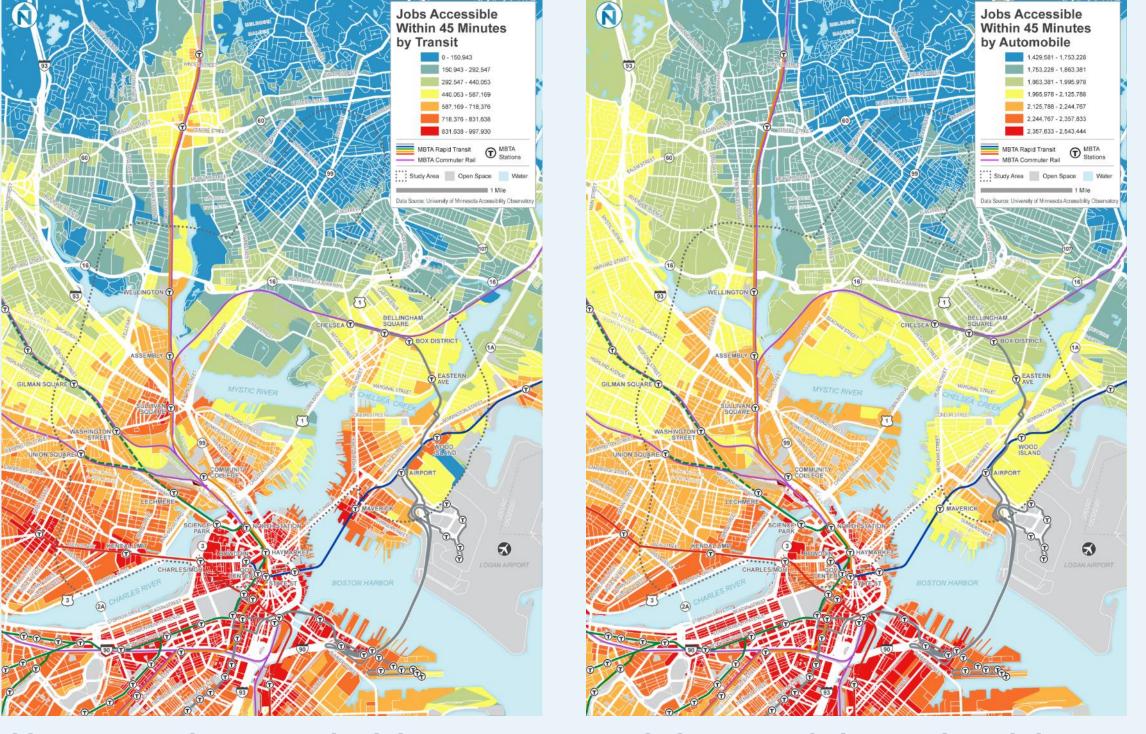
• Silver Line Alternatives Analysis



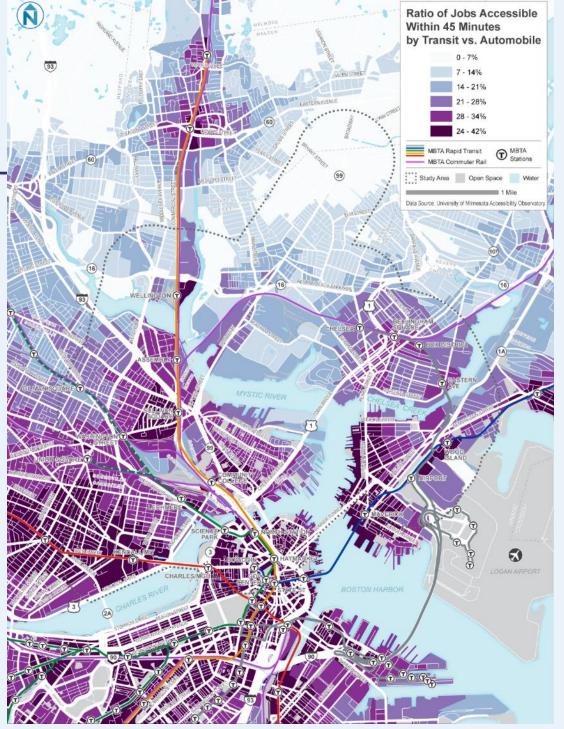
Ridership Trends



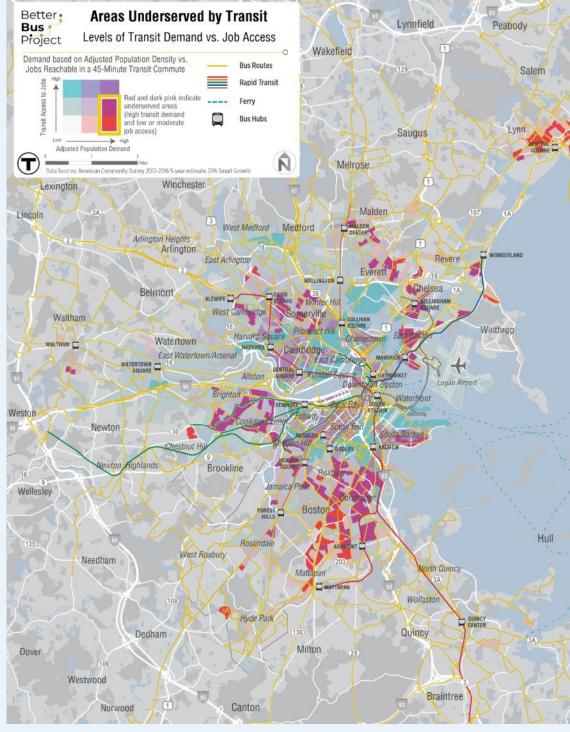
Temporal Boarding Trends



Many areas close to major job centers are poorly integrated via transit and these areas often have large minority and low-income populations; Everett and Chelsea have poor access to jobs both via transit and auto considering Downtown Boston proximity



Percentage of jobs accessible by transit compared to auto



Boston area: high demand based on population density and socioeconomic characteristics vs. access to jobs

Thank You!

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