# <u>Meeting 3</u> Transportation

# Needham Street Area Vision Plan

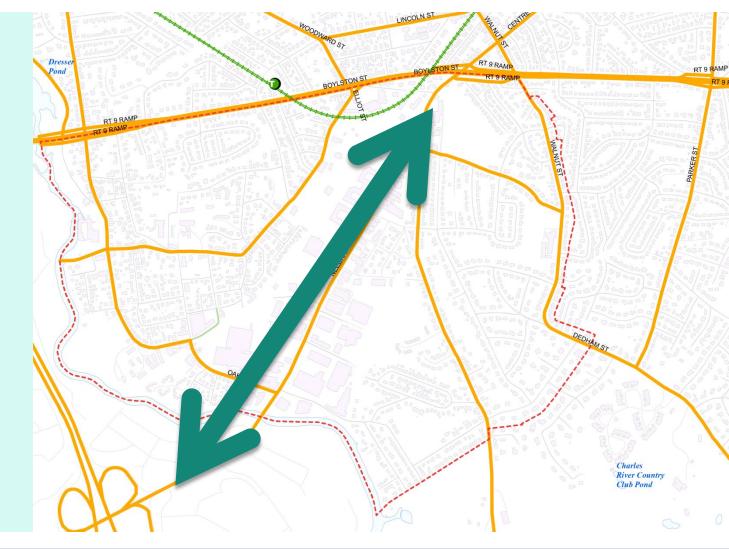


Community Engagement Group January 29, 2018

# Agenda

- Transportation System Today
- Existing Challenges
- Opportunities
- Evaluation
- Public Comment

- Network
  - Regional Roads & Rail



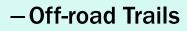
#### Network

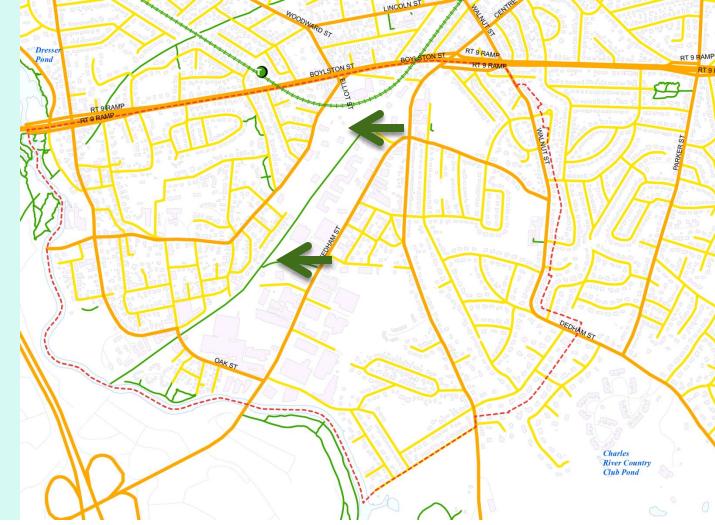
- Regional Roads & Rail
- -Local Roads



#### Network

- Regional Roads & Rail
- Local Roads





#### Network

- Regional Roads & Rail
- Local Roads
- Off-road Trails

### Options

#### -Walking



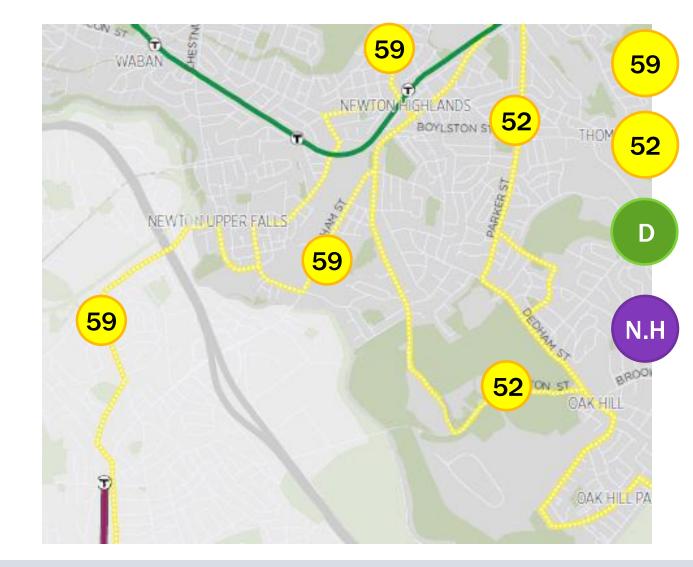


#### Network

- Regional Roads & Rail
- Local Roads
- Off-road Trails

### Options

- Walking
- MBTA



#### Network

- Regional Roads & Rail
- Local Roads
- Off-road Trails

### Options

- Walking
- MBTA

### -Specialty

#### Transit

- School Buses
- Private School Buses
- Private Shuttles



#### **School Buses**

- Angier
- Countryside
- Zervas
- Brown
- South

#### Private School Buses

 Solomon Schechter (Wells Ave) Buses avoid Needham St. whenever possible. Only stop along Needham St is at

Avalon.

Route mapping currently not available; changes annually based on student need.

#### Needham Street Area Vision Plan

#### Network

- Regional Roads & Rail
- Local Roads
- Off-road Trails

### Options

- Walking
- MBTA

### Specialty Transit

- School Buses
- Private School Buses
- Private Shuttles



#### **School Buses**

- Angier
- Countryside
- Zervas
- Brown
- South
- Solomon
  Schechter



#### **Private Shuttles**

#### **128 Business Council**

- Monday Friday
- 6:30 10:00 a.m. | 3:45 6:40 p.m.
- Stops at Newton Highlands, 320 Needham St, & Needham Xing
- Travels on Oak, Eliot, Woodward, & Lincoln Sts.

#### **Trip Advisor**

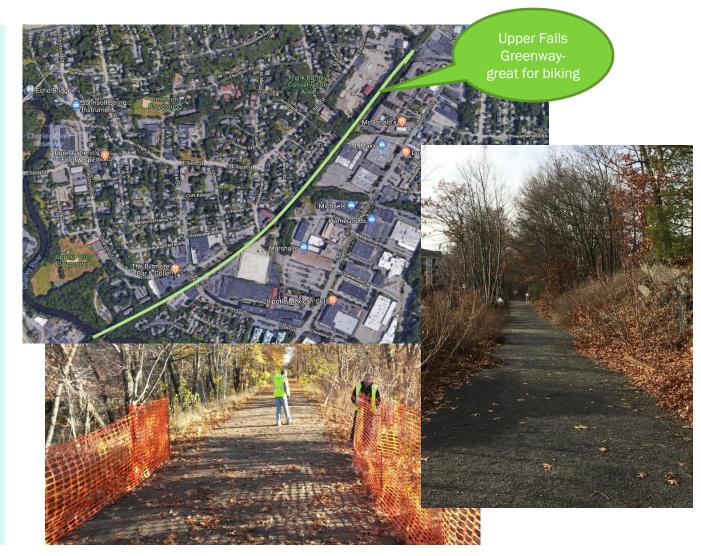
- Monday Friday
- 7:15 10:30 a.m. | 4:30 7:00 p.m.
- Stops at Newton Highlands, Trip Advisor
- Travels on Needham, Oak, Eliot, Lincoln, Walnut, & Winchester Sts.; also on Centre St on route to Cambridge

#### Network

- Regional Roads & Rail
- Local Roads
- Off-road Trails

### Options

- Walking
- MBTA
- Specialty Transit
- -Biking



#### Network

- Regional Roads & Rail
- Local Roads
- Off-road Trails

### Options

- Walking
- MBTA
- Specialty Transit
- Biking

# Driving & Parking

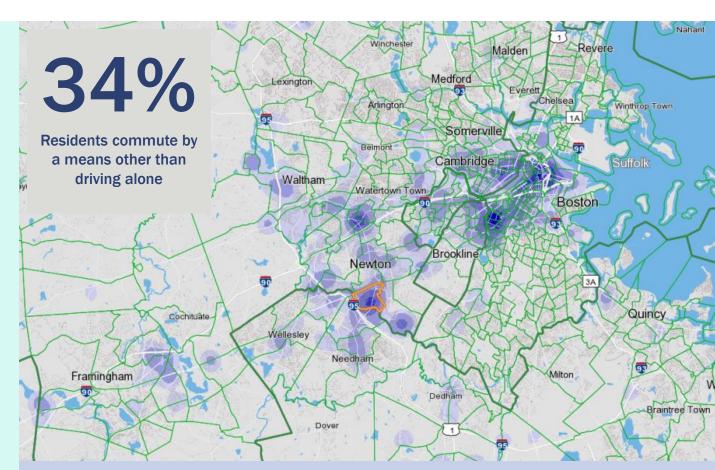


#### Network

- Regional Roads & Rail
- Local Roads
- Off-road Trails

#### Options

- Walking
- MBTA
- Specialty Transit
- Biking
- Driving & Parking
- Data



Concentrations of jobs held be residents in the census tract that best approximates the Needham St Area

Darker Purple = higher concentration

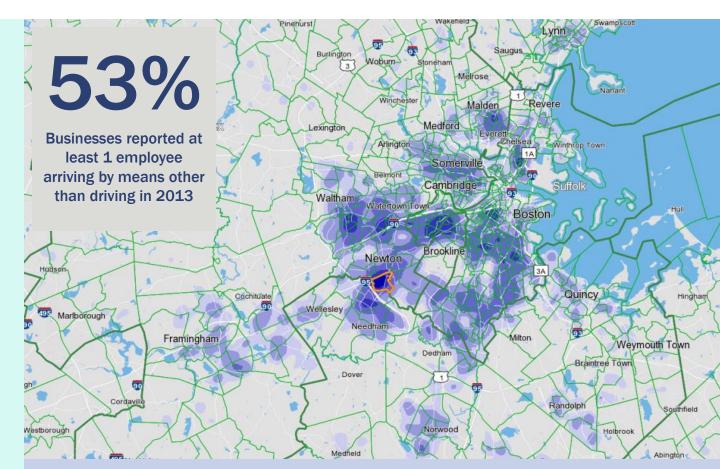
Newton, Longwood, Downtown Boston are highest

#### Network

- Regional Roads & Rail
- Local Roads
- Off-road Trails

### Options

- Walking
- MBTA
- Specialty Transit
- Biking
- Driving & Parking
- Data



Concentrations of residences of employees in the census tract that best approximates the Needham St Area

Darker Purple = higher concentration Newton, Brighton, Dorchester, Waltham, Everett, Chelsea

#### Network

- Regional Roads & Rail
- Local Roads
- Off-road Trails

### Options

- Walking
- MBTA
- Specialty Transit
- Biking
- Driving & Parking
- Data

#### **KEY FINDINGS FROM COMPARATIVE ANALYSIS**

- Average Daily Traffic Volumes on Needham Street have generally declined from 1984 to 2011.
- Traffic Volumes are significantly higher at the South end of Needham Street (Needham at Christina/Oak) than at the North end of the street (Needham at Winchester). Additionally, Northeast bound traffic accounted for 50% of traffic in 1984 and accounted for nearly 60% in 2011.
- Peak traffic volumes on Needham Street no longer occur at traditional commuter hours. In both directions, traffic is significantly heavier in the early afternoon (noon---2PM) than during the usual "evening rush."
- Cars/Trailers account for the vast majority of traffic on Needham Street. From 2010 to 2011, an increase in modal share by large, multi-axle vehicles, bicycles, and buses was observed. Subsequently, a decrease in the modal share by cars/trailers was observed.

-- 2013 Needham Street Compilation of Traffic Studies

#### Network

- Regional Roads & Rail
- Local Roads
- Off-road Trails

### Options

- Walking
- MBTA
- Specialty Transit
- Biking
- Driving & Parking
- Data



### All Crashes

### Crashes

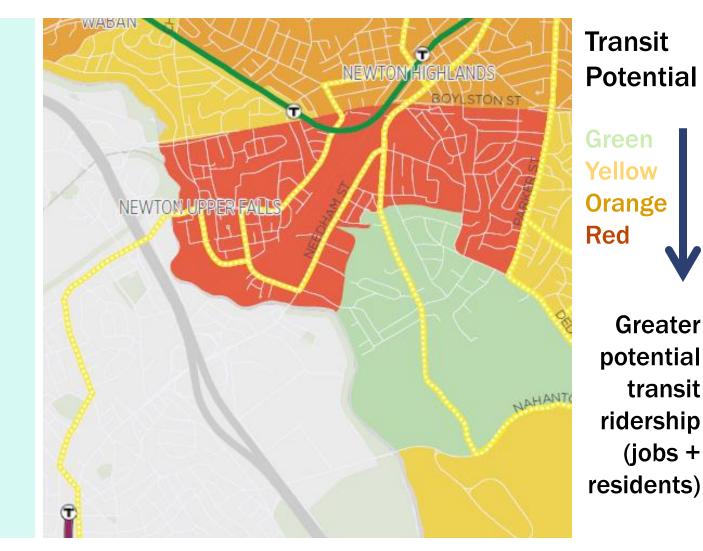
#### Pedestrians & Bicycles Involved

#### Network

- Regional Roads & Rail
- Local Roads
- Off-road Trails

### Options

- Walking
- MBTA
- Specialty Transit
- Biking
- Driving & Parking
- Data



#### Near Term Projects



- •Oak / Christina
  - Construction anticipated in 2018
- Mass DOT
  Project
  - Bidding summer 2018
  - Construction 2019

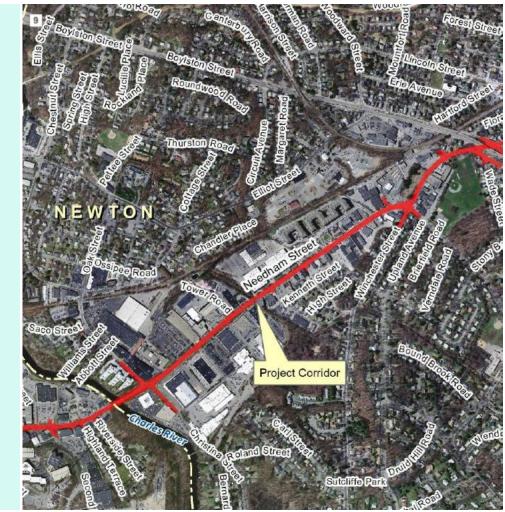
### Bike Share

- Coming Summer 2018

#### Near Term Projects

• Oak / Christina

- Construction anticipated in 2018
- Mass DOT
  Project
  - Bidding summer 2018
  - Construction 2019
- Bike Share
  - Coming Summer 2018



Needham Street Fall 2019 – Fall 2022

#### \$22 Mil

Pedestrian Continuous sidewalks More, enhanced crossings ADA compliance

Bike

5' raised bike lane Shared use paths

#### **Traffic Operations**

Upgraded, adaptive signals Improved signal timing Protected turn phases

**Transit** Far side bus stops

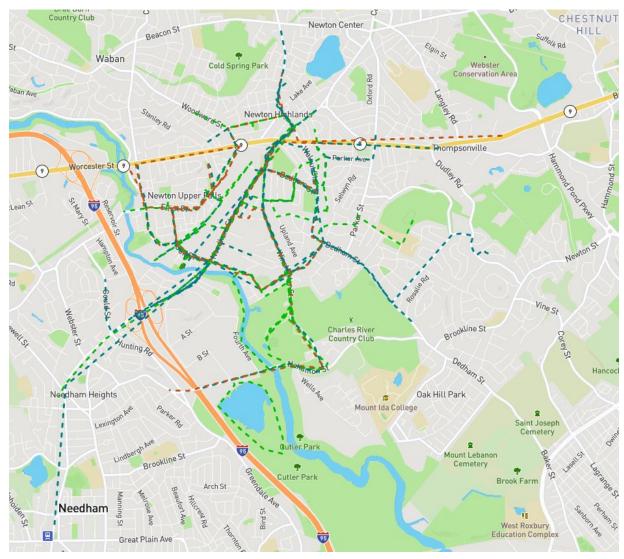
#### Near Term Projects

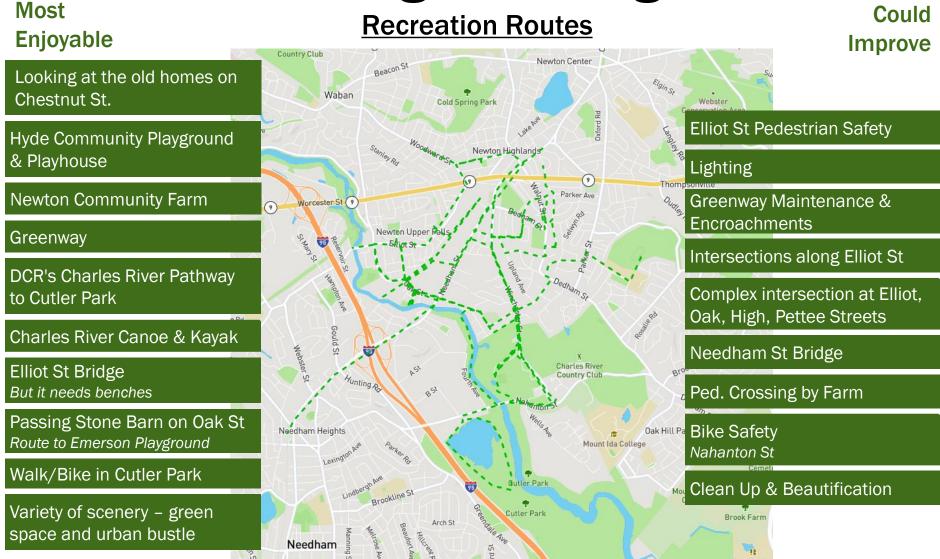


- Oak / Christina - Construction anticipated in 2018
- Mass DOT
  Project
  - Bidding summer 2018
  - Construction 2019

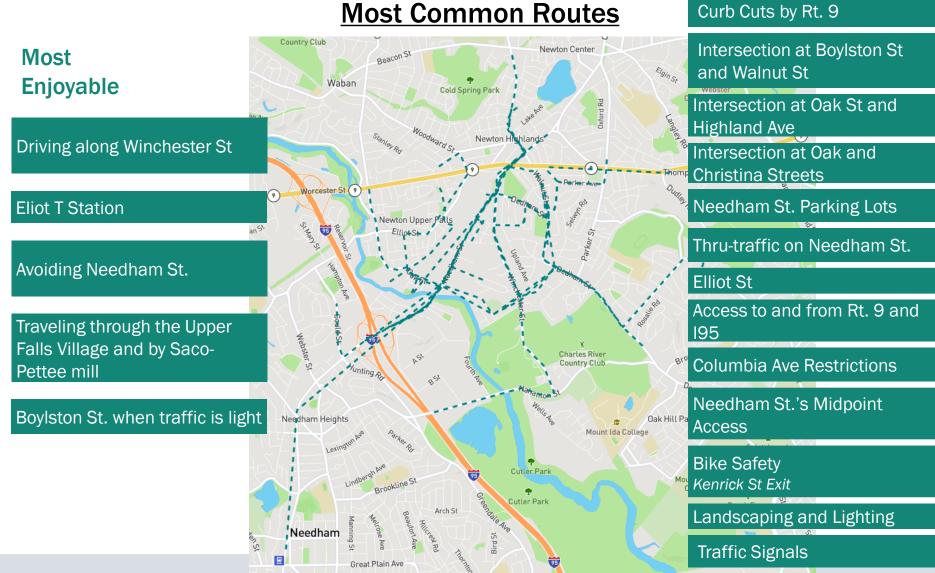
### Bike Share

- Coming Summer 2018





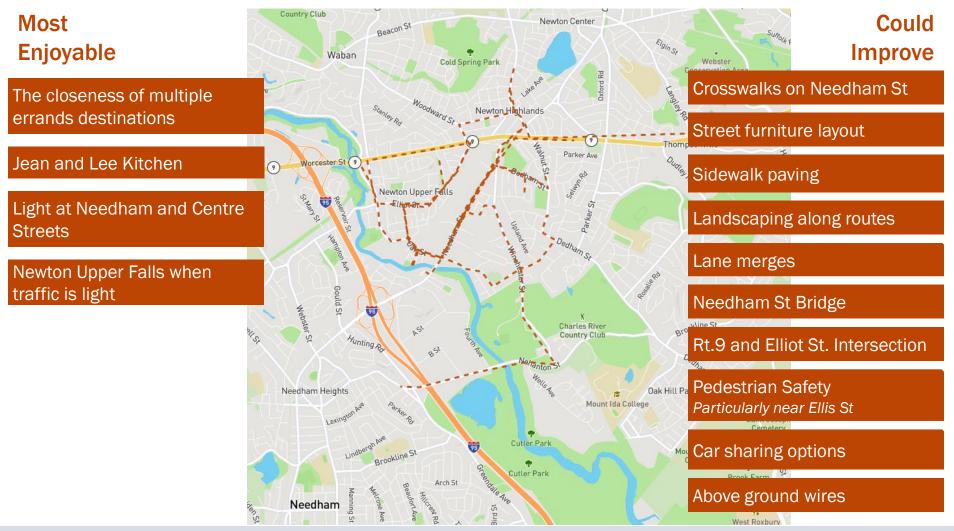
#### Could Improve



Needham Street Area Vision Plan

Community Engagement Group | January 29, 2018

#### **Errands Routes**



Do we need to add anything to the list?

In the Needham Street Area

### **Opportunities** Newton>in> motion

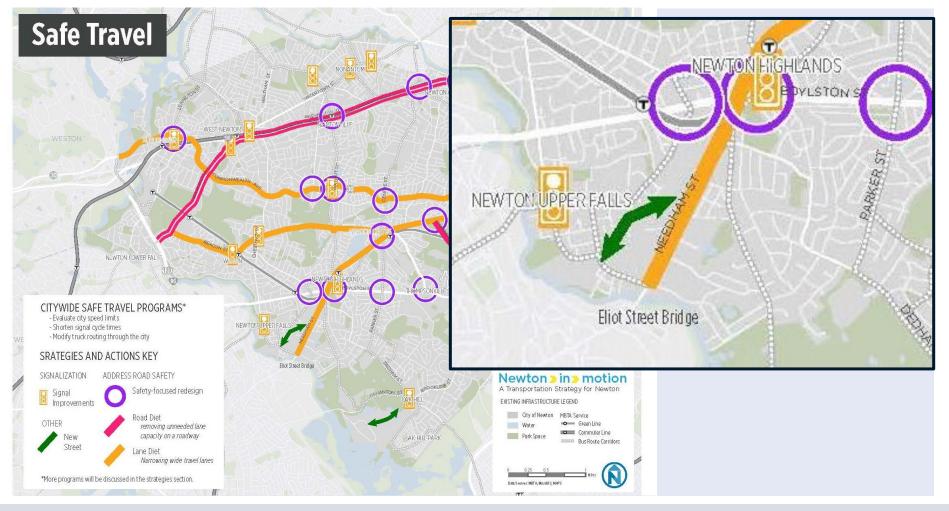
A Transportation Strategy for Newton

# Safe. Smart. Accessible. Livable. Sustainable.

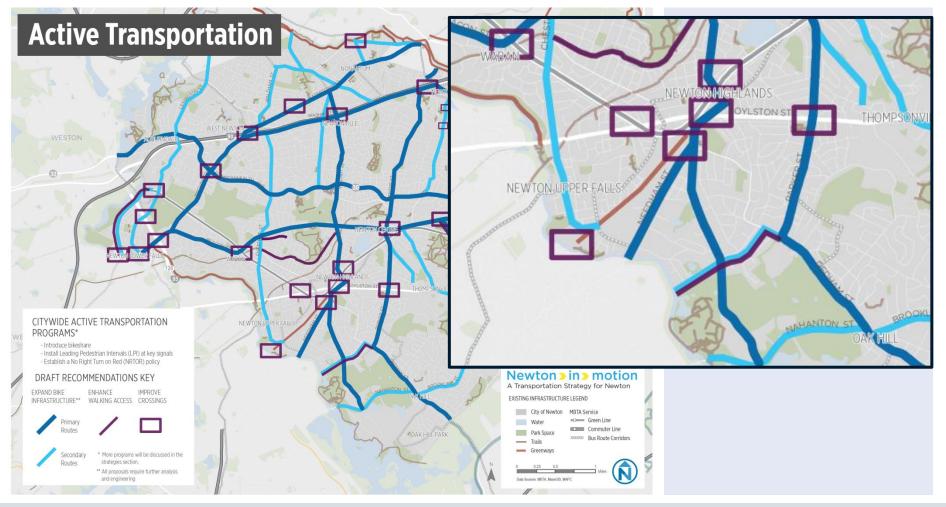
Needham Street Area Vision Plan

Community Engagement Group | January 29, 2018

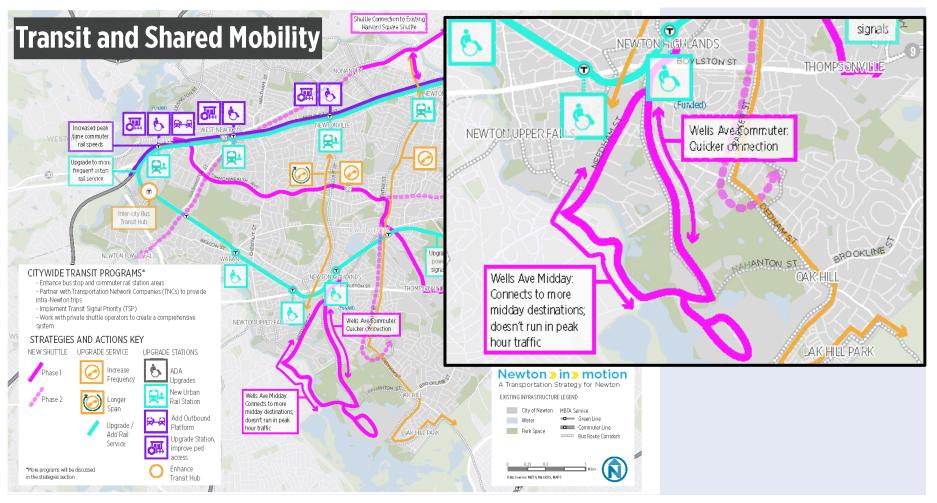
### **Opportunities** Newton>in>motion



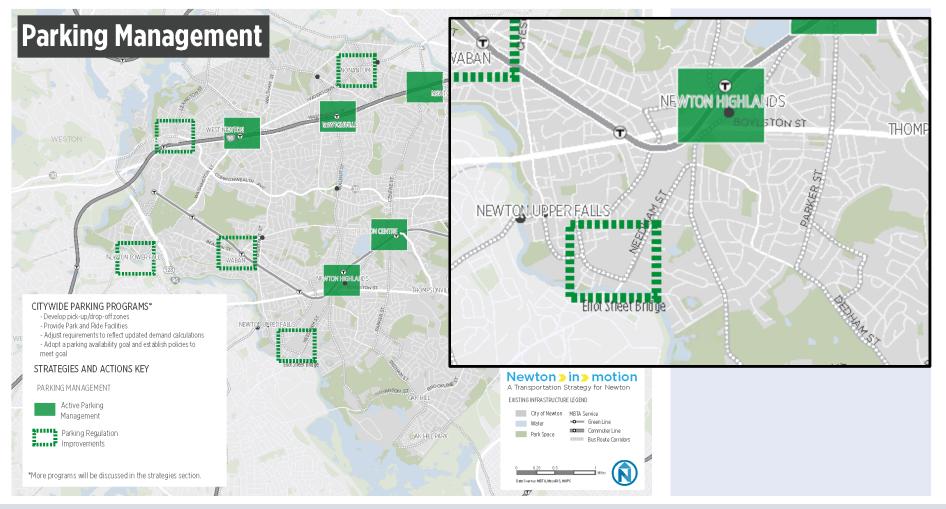
### Newton > in > motion



### Newton > in > motion



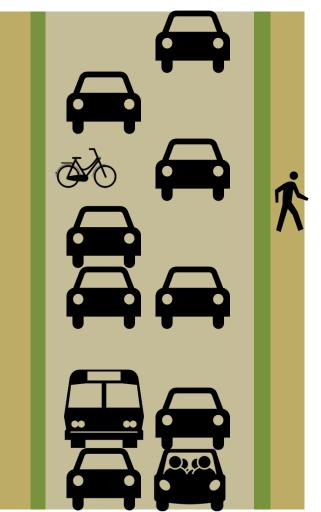
### **Opportunities** Newton>in> motion



**Transportation Demand Management (TDM)** 

Transportation Demand Management (TDM)

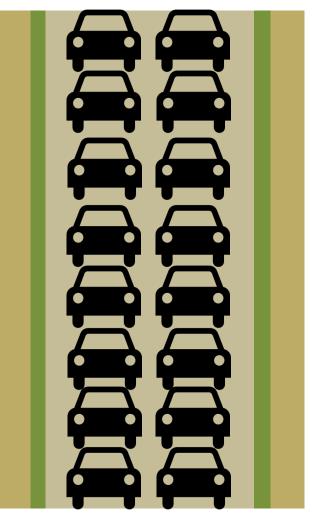
Giving People Options



**Transportation Demand Management (TDM)** 

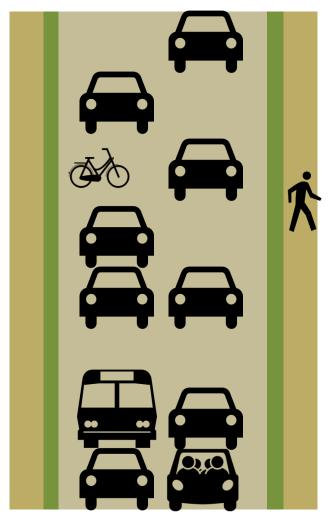
Transportation Demand Management (TDM)

Instead of sitting in traffic



**Transportation Demand Management (TDM)** 

Leave late/go in early **Telecommute** Carpool **Rideshare (Uber/Lyft)** Walk Bus **Green Line Commuter Rail Bike** 



#### **Transportation Demand Management (TDM)**

Locate housing near transit and jobs	Invest in walking, biking, and transit infrastructure	Distribute information about transportation options	Transit Passes
Separate housing and residential parking costs	Bike parking & locker rooms	Emergency ride home programs	On Site Carshare (e.g. zipcar)

**Transportation Demand Management (TDM)** 

#### **Proposed Approach:**

#### Obligate developers to a mode-split goal & implement TDM to reach agreed upon goal



Novartis Necco Building Cambridge, MA Opening Goal: 44% Drive Year 7 in Reporting: 33% Drive

> Mix of limited parking, ongoing incentives for transit, walking, biking

# What opportunities do you see in the Needham Street Area?

What is your big idea for the next 50 years? You have a magic wand, all the money in the world, and no limits