



Massachusetts Bay Transportation Authority

Plan for Accessible Transit Infrastructure (PATI) **Massachusetts Community Transportation Coordination Conference 2017**

May 2, 2017



PATI Key Objectives

- Identify Barriers
 - › Catalogue all meaningful barriers to access within public facing assets
- Establish Prioritization Criteria
 - › Develop a shared set of criteria for setting priorities based on community feedback
 - » What improvements, if made, would have the biggest positive impact on accessibility?
- Long-Term Planning
 - › Apply criteria/develop priorities
 - › Draft strategic plan/capital funding recommendations



Bus Stop Surveys



Developed tablet-based survey tool application, inspired by **MassDOT's** curb ramp inventory tool

Questions include assessments of:

- › Landing pad
- › Path of travel through stop and to nearest crossing
- › Condition of nearest crossing/curb ramps/signals
- › Amenities at stop (shelters, benches, etc.)
- › Potential obstructions (trees, trash cans, etc.)



Two-person field crews conducted in-person assessment using tool and **BlindWays** app (see appendix for background)



Bus Stop Web Management Tool

QA Review
Not Reviewed ▼


Survey details for stop: 110

- > 📁 Location 1
- > 📁 Roadways 1
- ▼ 📁 Crossings 1
- ▼ CROSSING #1
- ▼ 📁 Curb Ramp 2
- CURB RAMP #1
- CURB RAMP #2
- 📁 Signal 0
- ▼ 📁 Signs 2
- FRONT SIGN
- BACK SIGN
- > 📁 Landing Pads 1
- > 📁 Shelters 1
- 📁 Seatings 0
- > 📁 Sidewalks 1
- > 📁 Amenities 1


Hastus Id: 110
Town: Cambridge

A new location has been reported for this stop


Survey Name:	STV Crew #1 10-04-2016	Survey Time:	10:47 AM - 11:10 AM
Assigned Crew:	STV Crew #1	Time to Complete:	0.39 Hours
Completed Crew:	STV Crew #1	Start:	10/4/2016 10:47 AM
Completed By:	nbart	End:	10/4/2016 11:10 AM
Scheduled Date:	10/4/2016	Sync Date:	10/4/2016 11:11 AM




Amenities - Photo #1




Stop #110 - Photo #1




BACK SIGN - Photo #1




FRONT SIGN - Photo #1

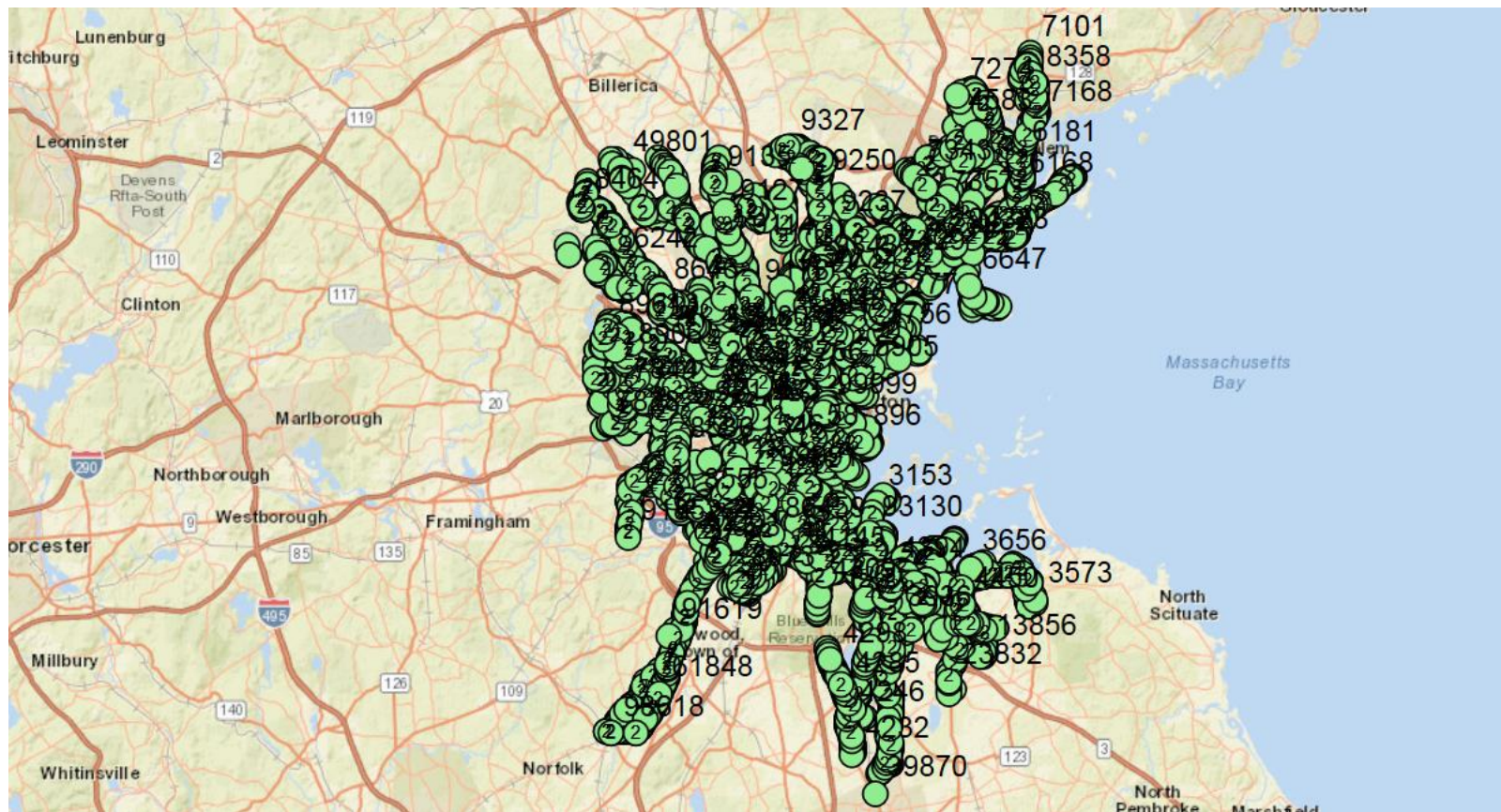


CURB RAMP #1 - Photo #1





7588 stops – as of 1/30/17





Bus Stop Sample Queries

Out of 7588 stops surveyed....

- **49% (3749)** are within 25 ft of a crossing
- **13% (1002)** are located near a crossing with a missing curb ramp
- **12% (906)** are located near a crossing with a curb ramp with a running slope greater than 12%
- **7% (508)** are located on a sidewalk less than 36" wide
- **12% (916)** are missing a front sign
- **2% (129)** have amenities blocking sidewalk
- **8% (640)** have a shelter
- **7% (560)** have a bench present (outside shelters)



Critical Bus Stops

One issue of immediate concern and requiring action is that of “critical” stops, defined as—

- There is no accessible path to/from the stop
- Boarding/exiting in the street is required

2.75% (209) of 7,588 stops surveyed deemed critical



Example of a Critical Bus Stop

#6716 Walnut St opp Birchwood Ave, Saugus

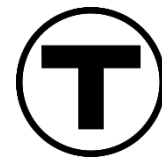




Example of a Critical Bus Stop

#1116 Cambridge St & Mass Pike Exit, Cambridge





Action Plan for Critical Bus Stops

Elimination vs. Modification

Service Planning is reviewing the following factors:

- Ridership
- Proximity to adjacent stops
- Title VI considerations
- Proximity to hospitals/health clinics and other facilities that primarily serve vulnerable users (*On-going review*)

Out of the 209 reviewed: 133 candidates for elimination

- 99% are used by less than 10 customers per weekday, average 730' to next stop
- 97% are used by less than 5 customers per weekday average 730' to next stop
- 84% are used by less than 3 customers per weekday, average 730' to next stop
- 50% are used by less than 1 customers per weekday
 - › may be fractional if only observed on sporadic days), average 760' to next stop
- 1% (1 stop) is used by greater than 10 customers per weekday (13 total) and is 280' to the adjacent stop



Next Steps for PATI

Spring 2017

Bus Stop – data cleanup, identify service and accessibility improvements within routes and corridors

Finalize Subway & Commuter Rail Tool

Summer 2017

Subway & Commuter Rail Surveys – conducted

Finalize scoring criteria to identify priorities with engagement committee

Early 2018

PATI long-term planning recommendations and capital funding strategy issued