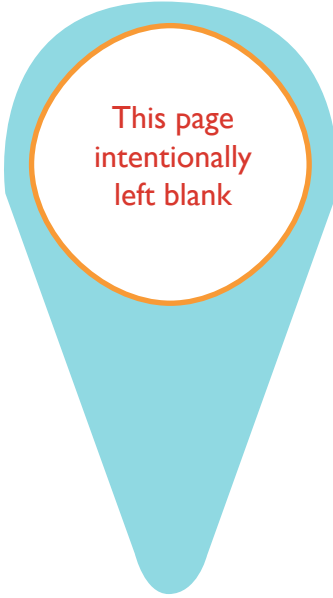


# appendix

## Data Resources



Each chapter in the Needs Assessment was developed using a variety of data sources. These sources include demographic and employment data, crash data, land use data, data about the condition of the transportation system, information about various transportation services in the Boston region, and transportation emissions data. Table C-1 summarizes these data, with information about relevant online applications.



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**Table C-1**

**Data Resources Used in the Needs Assessment**

Topic Area	Data Resource	Relevant Applications	Safety	System Preservation	Capacity Management and Mobility	Clean Air/Clean Communities	Transportation Equity	Economic Vitality
Bridge Condition	MassDOT Bridge Database	<a href="#">MPO Performance Dashboard</a>		X				
Congestion	INRIX speed data	<a href="#">MPO Performance Dashboard</a>			X			
Crashes	Crash Data System of the Massachusetts RMV	<a href="#">MassDOT Crash Portal</a>	X				X	
Demographics	2010 US Census 2010–14 American Community Survey	<a href="#">LRTP Needs Assessment Data Browser</a> <a href="#">MPO Performance Dashboard</a>					X	
Employment Density	Census and American Community Survey Data MPO projections	<a href="#">LRTP Needs Assessment Data Browser</a>						X
Environment	Natural, environmental, and historic resources mapped for the Boston region	<a href="#">MassGIS Data Layers</a>				X		
Existing Growth District Communities	Executive Office of Housing and Economic Development	None						X
Freight (Truck) Trip Density and Generators	MPO regional travel demand model CTPS research	<a href="#">LRTP Needs Assessment Data Browser</a>						X
Freight Network	MassDOT Freight Plan	None		X				
Greenhouse Gas and Air Pollution	CTPS travel demand model	<a href="#">MPO Vehicle-Miles Traveled and Emissions Data Browser</a>				X		
Greenhouse Gas and Environment	MassGIS data layers on flooding, seawater inundation from hurricane storm surges, and sea level rise	<a href="#">MPO All-Hazards-Planning Application</a>				X		
Hazards Planning	Federal Emergency Management Agency	<a href="#">MPO All-Hazards-Planning Application</a>		X				
Hazards Planning	U.S. Army Corps of Engineers (New England District)	<a href="#">MPO All-Hazards-Planning Application</a>		X				
Hazards Planning	U.S. Geological Survey Final Technical Report: Liquefaction Hazard Mapping in Boston, Massachusetts: Collaborative Research with William Lettis & Associates, Inc., and Tufts University	<a href="#">MPO All-Hazards-Planning Application</a>		X				
Hazards Planning	Intergovernmental Panel on Climate Change, Climate Change 2007: Synthesis Report	<a href="#">MPO All-Hazards-Planning Application</a>		X				
High Crash Locations	MassDOT-identified Highway Safety Improvement Program Clusters and Top High Crash Intersection Locations	<a href="#">MassDOT Interactive Top Crash Locations Map</a> <a href="#">LRTP Needs Assessment Data Browser</a>	X					
Land Use and Development	MAPC Municipal Development Database	<a href="#">MAPC MassBuilds</a>						X
Maven Fleet	Maven	None			X		X	
Off-Street Trails	Metro Boston network of foot trails and bicycle paths	<a href="#">MAPC TrailMap</a>			X		X	
Pavement Condition	MassDOT Roadway Inventory MassDOT Pavement Management System	<a href="#">MPO Performance Dashboard</a> <a href="#">LRTP Needs Assessment Data Browser</a>		X				

Topic Area	Data Resource	Relevant Applications	Safety	System Preservation	Capacity Management and Mobility	Clean Air/Clean Communities	Transportation Equity	Economic Vitality
Population Density	US Census and American Community Survey data, MPO projections	<a href="#">LRTP Needs Assessment Browser</a>						X
Traffic Fatalities	Fatality Analysis Reporting System	<a href="#">FARS Web-based Encyclopedia</a>	X					
Traffic Incidents and Injuries	Massachusetts Crash Data System	<a href="#">MassDOT Crash Portal</a>	X					
Transit	MBTA Bus Crowding Model	None			X			
Transit	Measures of reliability, ridership, and customer satisfaction with MBTA performance	<a href="#">MBTA Back on Track Dashboard</a>			X			
Transit Assets	MBTA, CATA, and MWRTA Transit Asset Management Plans and performance data submittals	None		X				
Transit Routes	MBTA, MWRTA, CATA, MVRTA, BAT, and GATRA GTFS	None			X		X	
Transit Safety	MBTA FMCB Quarterly Safety Reports, MassDOT Tracker	<a href="#">MassDOT Tracker website</a>	X					
Vehicle-Miles Traveled	VMT	<a href="#">MPO VMT and Emissions Data Browser</a> <a href="#">MassDOT VMT Data Viewer</a>	X		X			
Zipcar Fleet	Zipcar	None			X		X	

Notes: The Safety Goal Area is in Chapter 4; System Preservation is in Chapter 5; Capacity Management and Mobility is in Chapter 6; Clean Air/Sustainable Community is in Chapter 7; Transportation Equity is in Chapter 8; and Economic Vitality is in Chapter 9.  
 BAT = Brockton Area Transit. CATA = Cape Ann Regional Transit Authority. CTPS = Central Transportation Planning Staff. FARS = Fatality Analysis Reporting System. FMCB = Fiscal Management and Control Board. GATRA = Greater Attleboro Taunton Regional Transit Authority. GTFS = General Transit Feed Specification. LRTP = Long-Range Transportation Plan. MAPC = Metropolitan Area Planning Council. MassDOT = Massachusetts Department of Transportation. MassGIS = Massachusetts Bureau of Geographic Information. MBTA = Massachusetts Bay Transportation Authority. MPO = Metropolitan Planning Organization. MWRTA = Metrowest Regional Transit Authority. MVRTA = Merrimack Valley Regional Transit Authority. RMV = registry of motor vehicles. VMT = vehicle-miles traveled.  
 Source: Boston Region MPO.