

PATHS TO A SUSTAINABLE REGION - Projects and Programs by Investment Category

Corridor	Municipality	Projects and Programs	Maintenance, Modernization and Efficiency				Livability and Economic Benefit				Mobility				Environment				Climate Change				Transportation Equity				Safety and Security				Comments				
			Use low-cost strategies	Efficiency through ITS and M&O	Invest in technology before expansion	Achieve SGR	Strengthen connections; close gaps	Support MetroFuture development plans	Promote healthy transportation, complete streets	Promote context-sensitive design	Support state-of-practice parking	Support economic vitality	Improve access to transit	Improve transit service	Expand transit	Address constraints and bottlenecks	Promote fleet modernization	Support high-occupancy vehicle travel and non-motorized modes	Protect resources and health; avoid air and water impacts; reduce emissions, including brownfields	Promote energy conservation and alternative sources	Support meeting GHG emission reduction targets	Reduce VMT	Increase transit/bike/ped options and TDM	Protect critical infrastructure	Reduce energy use	Address equity needs; minimize burdens (air, safety, community)	Reduce transit trip times; increase capacity	Improve heavily used networks before expanding	Implement all-hazards planning	Reduce safety and security deficiencies		Support ITS	Protect critical infrastructure; address vulnerabilities	Improve Bike/Ped safety	Reduce crash severity
Management & Operations - Transit			Dark	Dark	Dark						Dark		Dark			Dark	Dark	Dark	Dark	Dark	Dark		Dark		Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark			
Management & Operations - Roadway			Dark	Dark	Dark						Dark		Dark	Dark	Dark	Dark										Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark		
State of Good Repair & Maintenance - Transit			Red			Red				Red	Red		Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	
State of Good Repair & Maintenance - Roadway			Red			Red				Red	Red		Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	
Modernization - Transit			Green		Green				Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Modernization - Roadway						Green	Green	Green	Green	Green	Green		Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
Expansion - Transit							Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	
Expansion - Roadway							Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	
Expansion - Freight							Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	
Expansion - Bike/Ped							Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	
Clean Air and Mobility			Dark	Dark	Dark		Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	Dark	

Dark-shaded box: Indicates that primary goal of investment category supports policy
 Light-shaded box: Indicates that secondary goal of investment category supports policy

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Management & Operations: ITS and low-cost capital improvements for system efficiencies																																				
Management & Operations - Transit																																				
	MBTA	Communications/Technology																																		
	MBTA	Green Line Power Study																																		
Management & Operations - Roadway																																				
NE, N		Route 1 Intersection Signalization (Corridorwide)																																		
W	Brookline, Newton	Route 9 Capacity Improvements · This project would involve several improvements to signals, sidewalks, and pedestrian crossings along Route 9. It would also involve some minor widening at the Woodward St. intersection and striping a third lane from that intersection to the east along Route 9.																																		
NW	Arlington and Cambridge	Route 2/Route 16 Interchange · This project implements access and traffic operation improvement recommendations outlined in the MPO's UPWP Alewife Traffic Operations and Access Study, Phase II.																																		
Management & Operations - Freight																																				
Management & Operations - Additional Projects for Consideration																																				
Regionwide		Expand METFON fiberoptic network																																		
Regionwide		Expand MIVIS																																		
Regionwide		Interface MassDOT-MSP communication for real-time information																																		
Regionwide		Interconnect Existing Operations Centers																																		
Regionwide		Expand Traffic Sensor Network																																		
Regionwide		Upgrade Traffic Signal Equipment (demand responsive systems)																																		
Regionwide		Implement TSP for MBTA Bus Routes																																		
Regionwide		Integrated Corridor Management																																		
Regionwide		Arterial Traffic Monitoring																																		
Regionwide		Traffic Management at Special Events																																		
Regionwide		Enhanced Emergency Response System (ERS)																																		
Regionwide		Enhance Mass 511 system																																		
Regionwide		Deploy and manage Dynamic Message Signs																																		
Regionwide		Integrate Weather Information into the ERS																																		
Regionwide		Implement Work Zone Monitoring																																		
Regionwide		Employ Critical Infrastructure Surveillance																																		

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Vehicle																															
	MBTA	Commuter Rail Locomotive Procurement																													
	MBTA	Green Line No. 7 Car Overhaul																													
	MBTA	Green Line No. 8 Car Upgrades																													
	MBTA	Kawasaki Commuter Rail Coach Overhaul · This project involves the overhaul of 75 bi-level Kawasaki coaches.																													
	MBTA	New Red Line Car Procurement · The fleet of 74 Red Line No. 1 cars built in 1969 are nearing the end of their useful life.																													
	MBTA	Orange Line Car Procurement · 146 new Orange Line #14 cars are needed to replace the #12 car fleet.																													
	MBTA	Procurement of 480 Buses · The MBTA will need to purchase 480 new buses by 2030.																													
	MBTA	RIDE Vehicle Program																													
State of Good Repair & Maintenance - Roadway																															
NE	Beverly	Beverly Draw Bridge Rehabilitation · This project involves the reconstruction of the Beverly Draw Bridge on the Newburyport/Rockport commuter rail line.																													
SE	Quincy and Braintree	Fore River Bridge · This project involves rehabilitating the Fore River Bridge, which carries Route 3A over the Fore River.																													
NW, Central	Boston, Cambridge	Longfellow Bridge · This project rehabilitates the multimodal Longfellow Bridge between Boston and Cambridge.																													
Modernization																															
Modernization - Transit																															
Accessibility																															
	MBTA	Accessibility Program · The MBTA has a Key Station Plan to make 80 key subway and commuter rail stations accessible.																													
	MBTA	Science Park Station Accessibility																													
	MBTA	Wedgemere Station access																													

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Enhancement																																			
	MBTA	T Under D · This project involves grade separation between D Street and the MBTA's Silver Line. It will remove one of 6 tightly clustered intersections on D Street, and improve T service to the airport on the Silver Line.																																	
	MBTA	Green Line Improvements (use of 3-car trains)																																	
	MBTA	Key Bus Routes Project - bus stop amenities and customer service enhancements																																	
Facilities																																			
NW	MBTA	Alewife Garage Improvements																																	
Maintenance																																			
	MBTA	Move Bradford Layover Facility on Haverhill Line with Plaistow Extension																																	
Power																																			
	MBTA	Orange Line Power Improvements																																	
	MBTA	Unit Substation Upgrades																																	
Signals																																			
	MBTA	Columbia Junction Upgrades																																	
Modernization - Roadway																																			
NW	Concord	Concord Rotary/Route 2 · This project seeks to relieve congestion and improve safety by replacing the Concord Rotary with a highway interchange and another westbound lane on Route 2 approaching the interchange. The project also includes a bridge over Route 2 to connect Commonwealth Avenue to the intersection of Route 2A/119. Phase 2B of the Bruce Freeman Rail Trail is part of this project as well.																																	
NW	Concord and Lincoln	Crosby's Corner · The project involves the construction of a bridge for Route 2 over the congested Crosby's Corner area. The current Route 2 will be converted into a frontage road for local homes and businesses.																																	
NE	Revere	Mahoney Circle Grade Separation · This project improves the congested intersection of Routes 1A, 60, and 16 by depressing Route 60 and improving the connectivity between the other routes. A CTIPS corridor study identified it as the worst intersection along Route 1A (tied with Boardman St.).																																	
W	Newton	Needham Street/Highland Avenue · This project reconstructs Needham Street (Newton) and Highland Ave (Needham), improves several intersections, and widens the bridge over Route 128. The project improves bicycle and pedestrian accommodations, and will support economic development.																																	

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SW	Bellingham	Pulaski Blvd · This project will reconstruct 2.2 miles of Pulaski Boulevard in Bellingham between Moody Street and the Franklin town line. This project will improve several poorly performing intersections and improve pedestrian safety.																																				
SW	Dedham, Norwood, Westwood, West	Route 1 South · This project implements geometric, signal, and pedestrian improvement recommendations outlined in the MPO's UPWP Route 1 Study.																																				
NE	Revere	Route 1/Route 16 Interchange · This project would better connect Routes 1 and 1A via Route 16, which would reduce the need for traffic to use local streets. It would connect Route 1 south to Route 16 east with left turn lanes and a signal, and Route 16 west to Route 1 north with a new ramp.																																				
W, SW	Bellingham to Framingham and corridorwide	Route 126 · This project implements geometric, signal, bus service, and pedestrian improvement recommendations outlined in the MPO's UPWP Route 126 Study.																																				
W	Framingham	Route 126/Route 135 Grade Separation · The project involves construction of an underpass for Route 126 beneath Route 135 and railroad tracks. The project will encourage economic development in downtown Framingham and improve a congested area.																																				
W	Ashland	Route 135 Grade Separation · This project would construct grade-separated intersections on Route 135 at Main Street and Homer Ave./Chestnut St.																																				
SW, SE	Canton, Milton, Stoughton	Route 138 Corridor · This project implements geometric, bicycle, and pedestrian improvement recommendations outlined in the MPO's UPWP Route 138 Study.																																				
NE	Boston	Route 1A/Boardman Street Grade Separation · This project involves the construction of an overpass for Route 1A over Boardman St. in East Boston. Boardman St. would be moved 400 feet to the south and new ramps connecting it to Route 1A would be built. This congested location was identified as the worst intersection along 1A (tied with Route 1A/Mahoney Circle) by a CTPS corridor study.																																				
NW	Acton to Lexington	Route 2 Capacity Improvements · This project would rebuild Route 2 as a 4-lane, limited-access highway with no traffic signals between I-95 in Lexington and Route 111 in Acton.																																				
W, NW	Boston, Watertown,	Route 20 · This project implements recommendations outlined in the MPO's UPWP Route 20 Study.																																				
SE	Sharon	Route 27 (Corridorwide) (meets need in Sharon) · This project includes geometric and signal improvements on Route 27.																																				
N	Malden, Medford	Route 60 Improvements · This project implements pedestrian, transit, and intersection traffic operations and safety improvement recommendations outlined in the MPO's UPWP Route 60 Study.																																				

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	MBTA	Urban Ring, Phase 2 · This project involves the construction of a bus rapid transit service in a roughly circular corridor connecting major activity centers in Boston, Brookline, Cambridge, Chelsea, Everett, Medford, and Somerville. It would connect the MBTA's rapid transit radial corridors and alleviate crowding in the central subway. It would also encourage infill development along the corridor.																																			

Expansion - Roadway

NE	Beverly to Peabody	Route 128 Capacity Improvements · This project would address safety and congestion problems along the oldest stretch of Route 128 in the Boston region.																																				
N, NE	Lynnfield to Reading	Route 128 Capacity Improvements · This project would improve capacity along a congested stretch of Route 128 between Route 1 in Lynnfield and Route 28 in Reading.																																				
NW	Somerville	Extend I-93 High-Occupancy Vehicle Lane into the City · This project involves the creation of a continuous HOV lane system from Quincy to Somerville on a very congested portion of Interstate 93. It would connect separate HOV systems north and south of Boston.																																				
N, NW	Somerville to Woburn	I-93 Capacity Improvements (Corridorwide) · This project involves constructing a reversible High Occupancy Vehicle (HOV) facility from Somerville to Route 128 in Woburn.																																				
W, NW, N	Wellesley to Woburn	Route 128 HOV · This project would involve the construction of an HOV lane along Route 128 between Wellesley and Woburn.																																				
SE	Braintree	I-93/Route 3 Interchange (Braintree Split) · The project improves the flow of traffic at the Braintree Split (I-93 & Route 3) through improvements to on and off-ramps, additional lanes, reconfiguration of existing lanes, and improved signage.																																				
SW	Canton	I-95/I-93 Interchange · This project involves a reconfiguration of the I-93/I-95 interchange. It would improve traffic flow through new ramps and roadway widening at a congested interchange between two Interstate highways. It will also improve connectivity to the Route 128 transit station, and support the Westwood Station project.																																				
N	Woburn, Reading, Stoneham, and Wakefield	I-93/I-95 Interchange · This project involves several safety improvements to the interchange including new and reconfigured ramps, and widening along Route 128. It also involves transit improvements to reduce travel demand in the area, such as shuttles to the Anderson Regional Transportation Center, increased MBTA commuter rail and local bus service, and a new Peabody park-and-ride lot and shuttle services. This is a high truck rollover location.																																				
NW	Somerville	I-93/Mystic Avenue Interchange · This project involves constructing a new interchange between I-93 and Mystic Avenue. It would allow for a connector road between Mystic Ave. and Middlesex Ave., which would improve access to the Assembly Square development site.																																				

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Expansion - Freight																																						
		South Boston Roadway Improvements · This project, outlined in the State Freight Plan, includes the construction of a new Conley Terminal Freight Bypass Road, and upgrades to Cypher Street and E Street. It would reduce truck traffic on neighborhood streets.																																				
		Port of Boston Improvement Dredging Project · This project involves deepening the navigation channel to Conley Terminal to a depth of 48 feet, and the entrance channel to 50 feet. It also involves dredging Chelsea Creek to 40 feet to improve access for oil tankers.																																				
N	Boston	Charlestown Haul Road																																				
NE	Boston	East Boston Haul Road · This project reduces truck and airport-related traffic such as shuttles and buses in East Boston by creating a new grade-separated roadway connecting the City of Chelsea and the harbor tunnels/Logan Airport using an abandoned below-grade railroad right-of-way. It would provide a roadway passing beneath Neptune Road, Bennington Street, and Saratoga Street, and would connect to Chelsea Street south of the Chelsea Street Bridge, and possibly provide a new direct ramp connection between Chelsea Street and Route 1A southbound.																																				
NE	Boston	Route 1A/Chelsea Street Bridge Connection · This project involves the construction of a new Chelsea St. bridge between East Boston and Chelsea. The new vertical lift bridge would provide 175 feet of vertical clearance to allow ships to pass beneath, which supports freight movement on Chelsea Creek.																																				
SE	Boston	Track 61 Rail Improvement · This project would restore existing, and extend, freight rail lines into the Boston Marine Industrial Park. It would provide on-dock rail access to a planned bulk cargo facility at the North Jetty. The project includes rehabilitation of 2,860 linear feet of railroad track, and construction of 5,910 new linear feet of track. It would support economic development in the marine industrial park area.																																				
SE	Boston	Conley Rail Service · This project involves extending rail service into the Conley Terminal in South Boston. Rail service could reduce the number of trucks using South Boston roads to access the marine terminal and encourage more ships to use the port.																																				

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Expansion - Bike/Ped																																						
NW	Hudson to Acton	Assabet River Rail Trail · The project includes the construction of a trail from Acton, through Maynard and Stow, to Hudson - a distance of 6.6 miles. It will connect town centers, the Assabet River Wildlife Refuge, and the South Acton Commuter Rail station. Required to complete the project will be two new bikeway bridges, replacement of an existing pedestrian bridge, rehabilitation or replacement of a railroad bridge, and a 1,100-foot boardwalk through a wetland area.																																				
NE	Salisbury to Danvers	Border to Boston Trail · This project involves the construction of a shared use rail trail. The Northern Section would about 28 miles from Salisbury on the New Hampshire border to Danvers along a former rail corridor, connecting town centers, schools, and parks.																																				
NW	Acton, Concord	Bruce Freeman Rail Trail · The project will extend the Bruce Freeman Rail Trail 4.9 miles through Acton and Concord. The shared use trail will be between 10 and 12 feet wide and its construction will involve adding a bridge over Route 2A and 119 and the rehabilitation of six railroad bridges. Once completed, the trail will be about 17 miles in length connecting downtowns, schools, and transit stations.																																				
NE	Everett, Malden, Revere, Saugus, Lynn	Northern Strand · This project involves the construction of a shared use trail connecting five municipalities north of Boston. The proposed rail trail connects several schools and activity centers in a densely developed environment.																																				

Clean Air and Mobility																																									
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Transportation Equity																																									
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