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A-1 Pedestrian Report Card Assessment Dashboard	 Purpose: This project is a follow up study to the pedestrian level of service, which was completed in January 2017. The previous study created the Pedestrian Report Card Assessment (PRCA) tool, which allows planners and engineers to rate the suitability of roadway segments and intersections for pedestrians. This proposed project will focus on the implementation of PRCA, including creating an interactive dashboard that will monitor pedestrian suitability on intersections and roadway segments throughout the Boston Region. Anticipated Outcome: An interactive dashboard will be created that will display the PRCA on the MPO website. 	Ρ		S		S			Р			Ρ		Р			Ρ		
and Pedestrian Crash	 Purpose: To report intersections that have a high presence of pedestrian crashes and recommend improvements to these intersections. This task relates to the CMP, because it includes collecting performance data, and outlines a strategies to alleviate congestion and improve safety. This is a follow up to a study that was done through the CMP in 2010 and again in 2012. Anticipated Outcome: A memorandum to document findings, including a description of each intersection, and recommended improvements. 	Ρ			S				Ρ			Ρ		Ρ	S	Ρ			

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LAND USE, ENVIRONMENT, L-1 Reverse Commute Areas Analysis					S	S	Ρ		S	Ρ		Ρ		S	Ρ	Ρ			
L-2 Transportation Access Studies of Commercial Business Districts	 Purpose: Cities and towns have relatively little information on the characteristics of CBD patrons and, as a result, the transportation planning process for these areas is often governed by perceptions that may or may not be correct. Understanding the transportation access mode and spending and visiting characteristics of CBD patrons would help planners in their work with businesses to improve transportation access to CBDs. This information might help planners make the case for improving transit and non-motorized vehicle access by improving bus stop locations, giving buses priority treatment, and improving pedestrian and non-motorized vehicle infrastructure. A transportation access study of a selection of Boston metropolitan area CBDs would evaluate how patrons access CBDs. Anticipated Outcome: The study would consist of several tasks. CTPS would conduct a literature review and summary of other studies of transportation access to CBDs. CTPS would also characterize the CBDs in the Boston metropolitan area by demographics, commercial development type and density, and existing transportation facilities and services. For a selection of CBDs, CTPS would work with the municipalities and any business associations to solicit business participation in the study. Businesses would first be asked to provide their perceptions on their customers' actual and preferred transportation access modes. Participating businesses would then be asked to encourage their customers to fill out a short survey while they wait in line at the register. The survey would ask the transportation access mode for this visit and their typical transportation access mode to that business. For each mode selected, the survey would ask how frequently the patron uses that mode). 						Ρ	S	S	Ρ	S		Ρ	S					

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-	ADWAY and MULTIMODAI Safety Improvements at	L MOBILITY Purpose: Continue to address the 2013 MassDOT Top 200 High-Crash Locations and Highway Safety	P	S			S		P			S	D	1	D		P	1	
1	Express-Highway Interchanges	Improvement Program (HSIP) crash clusters in the Boston Region MPO. Many of these are express-highway interchanges, and some of them do not need costly complete rebuilds but rather low-cost improvements that address safety and operations. Anticipated Outcome: The study would review the Top 200 Intersection Clusters and HSIP crash clusters to identify candidate locations. MPO staff would develop low-cost safety and operational improvements.	F	3			3		F			3	F		, r		F		
M- 2	Low-Cost Improvements to Express Highway Bottleneck Locations	Purpose: Recurring bottlenecks, the subject of this study, are influenced by the design or operation present at the point where the bottleneck begins (e.g., merges, diverges, lane drops, traffic weaving, and abrupt changes in highway alignment). Low-cost infrastructure solutions, as opposed to major construction projects, could involve changes in the design or operation of merges, traffic operations, or highway alignment.	P	S			P		P			P			P				
		The previous two studies of express-highway bottlenecks were very well received by MassDOT and the FHWA. Some of the recommendations from those studies already have been executed. The MPO has been conducting these studies to identify low-cost methods to reduce congestion, increase safety, and improve traffic operations in the Boston region.																Recurring	
		Anticipated Outcome: This study would select additional express-highway bottleneck locations and produce reports documenting low-cost solutions to existing traffic congestion issues at the selected locations. A before-and after analysis of previous work may be included, depending on the final scope of the study.																	
M- 3	Addressing Safety, Mobility, and Access on Subregional Priority Roadways	Purpose: During MPO outreach, Metropolitan Area Planning Council (MAPC) subregional groups identify transportation problems and issues that concern them, often those relating to bottlenecks or lack of safe access to transportation facilities in their areas. These issues can affect livability, quality of life, crash incidence, and air quality along an arterial roadway and its side streets. If problems are not addressed, mobility, access, safety, economic development, and air quality are compromised.	Р				S		P			P			Ρ			curring	
		Anticipated Outcome: Anticipated outcomes include data collection, technical analysis, development of recommendations, and documentation for selected corridors.																Re	
M- 4	Addressing Priority Corridors from the Long-Range Transportation Plan Needs Assessment	Purpose: The purpose of these studies are to develop conceptual design plans that address regional multimodal transportation needs along priority corridors identified in the Long- Range Transportation Plan (LRTP), Charting Progress to 2040. These studies include recommendations that address multimodal transportation needs that are expected to arise from potential future developments in the study area.					Р		Р			Р				Р		5	
		Anticipated Outcome: Through these studies, MPO staff would recommend conceptual improvements for one or more corridors, or several small sections within a corridor, that are identified by the Congestion Management Process and the LRTP as being part of the needs assessment process. These studies provide cities and towns with the opportunity to review the requirements of a specific arterial segment, starting at the conceptual level, before committing design and engineering funds to a project. If the project qualifies for federal funds for construction of the recommended upgrades, the study's documentation also might be useful to the Massachusetts Department of Transportation (MassDOT) and the municipalities.																Recurring	

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5	for Roadway Usage	 Purpose: Planners and researches have recently developed a number of interesting ways to better communicate the balance of needs among roadway users of a corridor, including measuring person throughput relative to the amount of space used by vehicles. These methods may help planners and engineers steer away or complement from reliance on traffic/vehicle-oriented LOS and may help sharpen MPO staff's analysis of roadways and corridors through a better understanding of non-SOV modes. One example is how FHWA recently changed federal guidance to encourage MPOs to use person-hours of delay, rather than vehicle-hours of delay, in measuring Peak Hour Excessive Delay (PHED) on segments of the National Highway System. Anticipated Outcome: Use case studies to develop the MPO's exploration of and approach to new and emerging metrics and/or popularly accessible terms to express the needs (travel demands) of all corridor travelers and to fully measure roadway efficiency under use by different modes. 		S	S	S	S		S	Ρ	S		Ρ	Ρ	S					
6	Framingham Truck Traffic and Complete Streets Study	 Purpose: Downtown Framingham has a Complete Streets policy and encourages TOD, but there is also significant truck traffic from the Adesa auto auction south of downtown. Several downtown streets are designated truck corridors. The city is looking for ways to mitigate the impact of truck traffic and implement safe infrastructure for pedestrians and bikes given presence of trucks. The future downtown should balance industrial/commercial and residential development needs. Anticipated Outcome: A study attempting to balance the needs of freight and Complete Streets in downtown Framingham. 	S				S	Ρ	Ρ	S		Ρ				Ρ				
M- 7	The Future of the Curb	 Purpose: There is an increasing amount of competition for curb space in urban areas, as well as the potential for transformation of their purpose in coming years. AVs/CVs may require less curb space for parking, while deliveries (Amazon etc) are increasingly common. Curbside bus and bike lanes are also in demand. Anticipated Outcome: An MPO study examining what the curb of the future will look like and how to balance demand between all of these modes/dynamics. Article on this concept: https://www.wired.com/story/city-planning-curbs/ 	S	S	S		Ρ		Ρ	S	S		Ρ	Ρ	S					
	Updates to Express Highway Volumes Charts	 Purpose: There is demand for sophisticated visualizations of highway volumes. This study would update the last published data and charts. Anticipated Outcome: Updated charts based on the most recent data. [Effort is scalable.] 					Ρ		Ρ				Ρ	Ρ			Ρ			
9	Sweetser Circle Reconstruction and Bus Priority	 Purpose: Sweetser Circle (intersection of Rte 16 and Rte 99) is a major bottleneck not only for vehicles, but also for buses. Intersection is state owned and affects regionally-significant roadways. The city of Everett seeks to extend the Broadway bus lane south through this intersection, and needs state assistance to get bus priority at this location. Anticipated Outcome: Would be a good project for a "low cost improvements" study to see if lane markings, quick curb or other easy solutions exist to prioritize bus movement through this intersection. 	S				Р		Р		S	Р				Ρ				

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T-1 Allston Transit Study	 Purpose: The Allston I-90 Interchange Project, which will alter the alignment of I-90 and create new land use development opportunity, includes a proposal to create a West Station along the Framingham/Worcester Commuter Rail Line. This infrastructure project also affords the possibility of a bus transit connection through the old Beacon Rail Yard, potentially providing a more direct routing of buses from the Harvard Square area to the Longwood Medical Area via a connection over I-90 and the adjacent rail lines. This proposed transportation study would assess the demand for bus transit service that could connect with the rail service. NEW IN 2019 UNIVERSE: Emphasize studying north-south transit connectivity and connections to Kendall and Harvard. Anticipated Outcome: A study examining possibilities for improving transit in the Allston-Beacon Yard area of Boston, especially those afforded by the rebuilding of I-90 and the redevelopment of Beacon Yard. 				S	Ρ	S	S	S	Ρ	P				Ρ				
TECHNICAL SUPPORT and	J OTHER						•							•	1		и		
O- MPO Staff-Generated 1 Research Topics	 Purpose: This program would support work by MPO staff members on topics that relate to the Boston Region MPO's metropolitan transportation-planning process, that staff members have expressed interest in, and that are not covered by an ongoing Unified Planning Work Program (UPWP) or discrete project. This program was funded for the first time in FFY 2017. Anticipated Outcome: This program could bring forth valuable information for the MPO's consideration and would support staff's professional development. The opportunities afforded to staff through this program could yield highly creative solutions to transportation-planning problems. 											Ρ	Ρ			Ρ	Ρ		

Notes:

ITALICS --> may need more info

15 Total projects

Glossary:

AV/CV = autonomous vehicles/connected vehicles. CTPS = Central Transportation Planning Staff. FFY = federal Highway Administration. GHG = greenhouse gas(es). GTFS = general transit feed specification. LOS = level of service. LRTP = Long-Range Transportation Plan. MassDOT = Massachusetts Department of Transportation. MBTA = Massachusetts Bay Transportation Authority. MPO = Metropolitan Planning Organization. P = primary. S = secondary. ROW = right-of-way. SIP = State Implementation Plan. SRTS = Safe Routes to School. TNCs = transportation network companies. UPWP = Unified Planning Work Program