Draft PVMPO Performance Based Planning and Programming Framework

Operations and Maintenance

Operations and Mainter	lance		l	r					
RTP Goal	Emphasis Areas	Objective	Statewide Performance Measures	State Target	Data	Local Performance Measure	Regional Target	Local Data	MPO Action / Tracking Mechanism
		Invest in projects	# Statewide Structurally Deficient Bridges	< 461 Structurally Deficient Bridges	MassDOT Bridge Inventory	% Structurally Deficient	Structurally deficient bridges below the percent of bridges considered	MassDOT Bridge Inventory	Prioritize funding for projects that will reduce the number of structurally deficient bridges in the Pioneer Valley. Bridges projects should continue to be funded outside of the regional target. Tracking Mechanism = Structurally Deficient and Functionally Obsolete Bridges in Region
To provide a transportation system that is dependable and adequately serves users of all modes. To give priority to the repair of existing streets,	The Movement of People, The Movement of Goods,	that preserve the existing transportation infrastructure, while enhancing	Bridge Health Index	dge Health Index 82 Obsolete Structurally deficient in PV Mas	MassDOT Bridge Inventory	Prioritize funding for projects that will increase Bridge Health Index Tracking Mechanism = MassDOT Bridge Health Index			
roads, and bridges.	Sustainability	the experience for all users	MassDOT Pavement Condition	65% of all pavement is in good or excellent condition	Pavement Condition Data	осі	Increase the average Overall Condition Index (OCI) for the Region 5% by 2025	PVPC Pavement Management Data	Prioritize funding for projects that will increase the OCI for roadways in the pioneer Valley (Included in TEC). This is contongent uponthe availability of additional federal and state aid that increases incrementally over time. Tracking Mechanism = Regional OCI by functional Classification
Safety									
RTP Goal	Emphasis Areas	Objective	Statewide Performance Measures	State Target	Data	Local Performance Measure	Regional Target	Local Data	MPO Action / Tracking Mechanism
To Provide and maintain a transportation system that is safe for all users	The Movement of People, The Movement of Goods, Safety and Security, Sustainability	e Movement of People, The Movement of ods, Safety and Security, Sustainability HSIP Clusters for all mo (High Crash Location	The Equivalent Property Damage Only (EPDO) index	Reduce motor vehicle fatalities by 20% over five years (short term)	MassDOT Registry of Motor Vehicles Crash Data	EPDO	Reduce motor vehicle fatalities by 20% over five years (short term)	Top 100 High Crash Intersections Report	Prioritize projects with high crash locations and/or major safety components that are anticipated to improve safety along a corridor (Included in TEC) Tracking Mechanism = Top 100 High Crash Intersection List updated every 3 years
			for auto, truck, bicycle, pedestrian in the Pioneer Valley Region	MassDOT Crash Portal Halve the number of	Fatality Rate	Halve the number of fatalities and serious injuries on roadway (long term)	Municipal Crash Reports	Implement intersection safety studies for the top crash locations (Included in TEC) Tracking Mechanism = Number of safety studies completed per UPWP cycle	
			HSIP Clusters for all modes (High Crash Locations Based on EPDO Index)	fatalities and serious injuries on roadway (long term)	MassDOT Top Crash Locations Report	Top 100 High Crash Locations	Complete 1 Safety study a year for locations indentified in the Top 100 High Crash locations report	PVPC Top 100 High Crash Locations Report	Implement intersection safety studies for the top crash locations (Included in TEC) Tracking Mechanism = Roadway Safety Audits in PVPC Region, safety recommendations advanced through TIP

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Congestion

RTP Goal	Emphasis Areas	Objective	Statewide Performance Measures	State Target	Data	Local Performance Measure	Regional Target	Local Data	MPO Action / Tracking Mechanism
Identify, evaluate, and implement transportation performance measures that enhance the safety and efficiency of the movement of people, goods, and information.	Safety and Security, The Movement of People, The Movement of Goods, Sustainability	Reduce Delay for all modes	Vehicle hours of Delay (daily, annual), Speed Index, Travel Time Index, Volume to Capacity Ratio, Project vehicle hours of delay (daily, annual),	I), Speed ime Index, acity Ratio, e hours of annual), sidewalk, f bicycle s, five-foot paths) ad points by ads by key		Congestion Severity Ranking (CMP) Travel Time Index	Maintain average driver delay at or below 4.8 hours of delay/1,000 VMT		Prioritize projects studied as part of the CMP, and UPWP (Included in TEC) Tracking Mechanism = CMP Listing updated every 4 years
		Expand the on/off Road bicycle and pedestrian network	New Miles of sidewalk, New miles of bicycle facilities (lanes, five-foot shoulders, paths)		· ·	Top Regional Bottleneck	Fund 1 congestion improvement project through the TIP every 5 years. Complete 1 congestion study per year for locations identified in the CMP / Top Bottleneck Report	Prioritize projects studied as part of the Top Bottlenecks Report, and UPWP (Included in TEC) Tracking Mechanism = Top Bottlenecks Report updated every 4 years	
					Bicycle Condition Index (BCI)	Increase the total mileage of on road facilities by 10% by 2025	BCI analysis, Roadway inventory	Prioritize projects that include bicycle accommodations (Included in TEC) Tracking Mechanism = on and off road bicycle and pedestrian network mileage	
		Improve the efficiency of the Public Transportation System	Vehicle peak load points by line, Vehicle loads by key bus routes			On time performance,	To be coordinated with the RTAs	PVTA/PVPC system analysis	Prioritize projects that include transit amenities Tracking Mechanism = Number of new transit amenities implemented through the TIP

Green House Gas / Air Quality

RTP Goal	Emphasis Areas	Objective	Statewide Performance Measures	State Target	Data	Local Performance Measure	Regional Target	Local Data	MPO Action / Tracking Mechanism
To minimize the transportation related adverse impacts to air,	Safety and Security, The Movement of People, The Movement of	Reduce GHG's resulting from the		Reduce GHG from the transportation sector	CMAQ	GHG tracking with Picarro Analyzer	Reduce GHG from the transportation sector 25% by 2020 and 80% by 2050	Local GHG Data Collection	Prioritize projects with components that could improve air quality (Included in TEC) Tracking Mechanism = Net GHG reduction per TIP year
land, and water quality and strive to improve environmental conditions at every opportunity	Goods, The Movement of Information, Sustainability	transportation system	GHG, VOC, NOX, CO, PM	25% by 2020 and 80% by 2050	Analysis/M odel	CMAQ Analysis	Construct at least 1 Project that has been identified as improving AQ per TIP Year	CMAQ Analysis / FDR	Prioritize projects with components that could improve air quality (Included in TEC) Tracking Mechanism = CMAQ project completed through TIP

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Freight

RTP Goal To maintain a transportation system that promotes and supports economic stability and expansion.	Emphasis Areas Safety and Security, The Movement of People, The Movement of	Objective Improve the efficiency of the freight network	Statewide Performance Measures Average weekday average truck hours of delay, Number of weight restricted or closed bridges, # of projects that	State Target	hridge list	Local Performance Measure # of weight restricted, height restricted or closed bridges	Regional Target Use State Target	Local Data MassDOT bridge list	MPO Action / Tracking Mechanism Prioritize projects that improve efficiency of the freight network. Bridges projects should continue to be funded outside of the regional target. Tracking Mechanism = Number of weight
	Goods, Sustainability		improve intermodal facilities			in region			restricted bridges in region per TIP year
Intermodal RTP Goal	Emphasis Areas	Objective	Statewide Performance Measures	State Target	Data	Local Performance Measure	Regional Target	Local Data	MPO Action / Tracking Mechanism
To provide access between travel modes for people and goods while maintaining quality and	Safety and Security, The Movement of People, The Movement of	Increase the availability of bicycle and automobile parking near transit facilities					Strive to increase average park and ride lot use by 5% by 2025	Park and Ride	Tracking Mechanism = Monthly occupancy tracking at park and ride lots
maintaining quality and affordability of service.	Goods, The Movement of Information, Sustainability	Reduce single occupancy automobile usage in Pioneer Valley				Bike Path use volume	Demonstrate an overall annual increase use of regional bike paths	Bike Path count program	Prioritize projects that reduce dependency on single occupancy automobiles Tracking Mechanism = Annual Bicycle and Pedestrian counts

Multimodal

RTP Goal	Emphasis Areas	Objective	Statewide Performance Measures	State Target	Data	Local Performance Measure	Regional Target	Local Data	MPO Action / Tracking Mechanism
	Safety and Security, The	Reduce single occupancy automobile usage in Pioneer Valley	Mode Share, Transit Ridership			PVTA and FRTA Ridership	Demonstrate an overall annual increase in PVTA and FRTA ridership	FRTA/PVTA/P VPC system analysis	Prioritize projects that close gaps between modes of transportation Tracking Mechanism = Map Know gaps in regional transportation system to promote connectivity
To provide a complete choice of adequate travel options that are accessible to all residents, visitors and businesses.	Movement of People, The Movement of Goods, The Movement of Information, Sustainability	Increase Access to multi use paths	Access points and miles of shard use paths			New miles of multi use paths, on-road bike facilities, and sidewalks	Increase the total mileage of all bicycle and pedestrian infrastructure by 10% by 2025 (No more than 5% off road paths)		Prioritize projects that enhance access for bicycles and pedestrians via on-road improvements, new sidewalks, and new multi use paths Tracking Mechanism = Map access points, monitor and track usage