

Pioneer Valley  
Unified Planning Work Program  
  
Draft Amendment  
  
Fiscal Year 2015  
October 1, 2014 to September 30, 2015

May 2015

Prepared by the  
Pioneer Valley Planning Commission  
  
For the Pioneer Valley  
Metropolitan Planning Organization

**Pioneer Valley MPO Members**

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Prepared in cooperation with the Massachusetts Department of Transportation, and the Federal Highway Administration and the Federal Transit Administration - U.S. Department of Transportation. The views and opinions of the Pioneer Valley Planning Commission expressed herein do not necessarily state or reflect those of the U.S. Department of Transportation.



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## INTRODUCTION

The UPWP provides an indication of regional long and short-range transportation planning objectives, the manner in which these objectives will be achieved, the budget necessary to sustain the overall planning effort, and the sources of funding for each specific program element. All tasks will be performed by the PVPC in cooperation with appropriate agencies, unless otherwise stated.

The Pioneer Valley Metropolitan Planning Organization endorsed the current Unified Planning Work Program for the Pioneer Valley MPO at its meeting on June 18, 2014. Recently, the Massachusetts Department of Transportation (MassDOT) engaged the services of a private consulting firm to study short and long range improvement alternatives for the Interstate Route 91 (I-91) corridor. This work is very similar to many of the tasks as outlined in Task 3.3 - Interstate Route I-91 Corridor Planning Assistance. As a result, the UPWP was amended to reallocate funding associated with all work that was deemed duplicative. A summary of the proposed changes to the budget is provided in the table below.

<b>Task</b>	<b>Original Budget</b>	<b>Proposed New Budget</b>	<b>Change</b>
2.2 – Regional Travel Demand Modeling/Clean Air Planning	\$65,625	\$80,625	+ \$15,000
2.4 – Information Center	\$49,000	\$54,000	+ \$5,000
3.1 – Regional Transportation Plan Update	\$143,551	\$151,176	+ \$7,625
3.3 – Interstate Route I-91 Corridor Planning Assistance	\$42,500	\$14,875	- \$27,625

All total, four tasks will be modified as part of this amendment. A complete description of each of the modified tasks is included as part of this document. New tasks have been highlighted in yellow. Tasks removed from the UPWP have been highlighted via ~~strikethrough~~ text.

## **Task 2.2 Regional Travel Demand Modeling/Clean Air Planning**

### **OBJECTIVE:**

Develop and maintain a baseline travel demand model to estimate future travel demand, calculate vehicles miles traveled, and forecast long range transportation needs. Support local and regional sustainability and livability initiatives through analysis of corridors and projects in terms of circulation impacts and Green House Gas emission reductions. To address the transportation sector's regional impact on air pollution and climate change by estimating travel demand and the effectiveness of mitigation strategies.

### **PREVIOUS WORK:**

1. Analysis of activity center destinations along select bus routes based on transit rider count data.
2. Creation of a new Transportation Analysis Zone Layer based upon the 2010 Census geographies.
3. Created a Cross Classification using the number of vehicles and number of people in a household for the 2010 model year.
4. Created a Productions and Attractions table for the 2010 Model Year.
5. Updated the roadway network with connections to the newly created centroids for the 2010 model year.
6. Created a User's Guide for socio-economic and geography updates.

### **PROPOSED ACTIVITIES:**

1. Continue development and refinement of the 2010 base model for the PVPC region. Perform calibration as appropriate. Upgrade old model macros to read new data and geographies for current and future years.
2. Create a geocoded database for traffic count locations. This includes new Average Daily Traffic data at community lines and external stations gathered from in-house traffic counts as well as from surrounding planning agencies.
3. Obtain up to date information on non-exempt regional projects for inclusion in the statewide model from the Office of Transportation Planning (ongoing).
4. Perform air quality conformity determinations for TIP projects to be funded under the Congestion Mitigation and Air Quality (CMAQ) program and for potential projects applying for funding under the Transportation Demand Management (TDM) program (ongoing).
5. Perform Greenhouse Gas emissions calculations for projects included on the TIP consistent with the Massachusetts Global Warming Solutions Act (ongoing).
6. Provide supporting data from the regional travel model to communities and MassDOT upon request (ongoing).
7. Utilize the regional travel model to assist in the development of future build out estimates of transportation planning activities (ongoing).
8. Estimate effects of transportation improvement projects on communities by activating local roadway links within the regional model (as needed).
9. Work in coordination with CTPS and the Office of Transportation Planning to make necessary adjustments to the PVPC regional model for use in the I-91 Viaduct Study.
10. Update household and employment data for the traffic analysis zones for each future build year based on new projections developed by MassDOT.
11. Adjust the model roadway network and future socio-economic projections based on the new MGM casino development in the City of Springfield.
12. Incorporate intermodal analysis into the modeling of alternatives in the Interstate I-91 highway project in Springfield and compare with data analyzed by MassDOT consultants.

**PRODUCTS:**

1. Update and maintenance of the regional travel demand model.
2. Air quality conformity and greenhouse gas analysis in support of the TIP.
3. Maps for graphical representation of existing model structure.
4. Transportation build out analysis for TIP projects as needed.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$60,000	30 weeks
MassDOT (20% match)	\$15,000	8 weeks
FTA S. 5303	\$ 5,625	2 weeks
TOTAL	\$80,625	40 weeks

Direct Labor	\$36,849
Indirect Costs	\$43,776

**Task 2.4 Information Center**

**OBJECTIVE:**

Support initiatives and goals of MAP-21 by serving as a regional data and analysis resource to transportation, economic development, land use, and municipal planning staff throughout the region. In particular, this Task will provide data and resource to support Task 2.7 regional performance measure development. Additionally, continue to maintain regional data and related technical infrastructure as well as collect, analyze, and interpret data about the Pioneer Valley region. Focus will continue to be placed on collecting and summarizing data from multiple sources to provide digital and print products that will inform stakeholders in a variety of methods to support ongoing transportation activities. The Information Center produces high quality written and graphic information and research products that are easily accessible and understandable to the public. As technology opportunities expand, we continue to place more weight on making data and products easily available to download and manipulate through online venues.

**PREVIOUS WORK:**

1. Updated population, household, and employment estimates and projections which comply with the new 2010 Census.
2. Published data products focused on population and housing shifts, Major Employers, and access to food in the Pioneer Valley region.
3. Continued maintenance and updating of a municipal indicators database for every city and town in the Pioneer Valley and updated through January 2013 data.
4. Assisted with analysis of employment centers for regional TOD analysis.
5. Continued data updates in the development of updated definitions of Environmental Justice populations for the Pioneer Valley Region.
6. State of the Region/People – 2013 Update.
7. Analyzed labor market for proposed regional passenger rail project.
8. Regional economic development strategy that for a green regional economy and expanded regional transportation system.
9. Developed a data downloads website available to regional planners and the public. [www.pioneervalleydata.org](http://www.pioneervalleydata.org)
10. Completed first round of integrating community profiles into “Our Communities” page of the PVPC website to allow for easier updating and data access.

**PROPOSED ACTIVITIES:**

1. Collect and analyze data regarding current transportation, economic development, land use, and municipal planning issues. This is an ongoing, annual task.

2. Assist decision makers and community members make informed decisions about their community by sharing information widely. This activity continues to focus on making data easily available and understandable, pulling from a variety of sources including the American Community Survey, the Economic Census, Census population estimates, municipal finance data, current economic indicators, and labor market information that will assist in positive transportation planning and decision making. Continued maintenance and improvements to data access through the website will be a key component of this work to ensure the timeliness of the information available. This is an ongoing, annual task.
3. Respond to requests for data and analysis from municipalities and other external stakeholders as requested. This is an ongoing, annual task.
4. Maintain regional data indicators related to socio-economics, transportation, and sustainability to include in State of the Region database, websites, and community and regional profiles. This is an ongoing, annual task.
5. Update data for Pioneer Valley region's Environmental Justice definitions and assist with the use of these definitions and data in mapping activities and transportation planning efforts. Ensure consistency of Environmental Justice definitions across all planning areas of the PVPC. Continue to maintain and improve the Information Center's regional database to integrate transportation, demographic, economic, health, education and municipal data. This is an ongoing, annual task.
6. Assist in the integration of transportation related initiatives within the regional economic development plan. This is an ongoing, annual task.
7. Provide support to transportation planners as they update the regional transportation model with the most up to date population and employment data and projections for future analysis. This is an ongoing, annual task.
8. Continue to maintain region wide data indicators with updated data and analysis on the State of the Pioneer Valley website to measure progress and needs of the region in the areas of transportation, economic development, and health. This year will focus on adapting the set of indicators examined to match the newly re-developed regional economic development plan. Additionally, we will continue to explore new web technologies to make this website and the data included more accessible and appealing as well as more efficient to maintain. This is an ongoing, annual task.
9. Maintain current knowledge base of which transportation related data is available and advise planning staff on which might be useful for regional transportation indicators.
10. Provide data and analysis to support transportation planners in the update of the Regional Transportation Plan.
11. Review and comment on draft population and employment projections developed by MassDOT for use in the 2016 RTP update.

#### **PRODUCTS:**

1. Maintain information systems of socio-economic and disparate data.
2. Maintain up to date data on the upgraded PVPC website and continue to work on upgrades that enhance accessibility to allow users to view, manipulate, and download data in easy to understand formats. Continued technology upgrades allow for more efficient use of staff time.
3. Update region wide data indicators on State of the Pioneer Valley website. This will include a new set of data indicators adjusted to match the newly updated Plan for Progress economic development plan as well as related transportation goals. Continue to upgrade technology and automation of website data updating when possible. Enhance the accessibility of IT and web products when appropriate.
4. Maintain and continue to upgrade through PVPC website to allow for more useful, clear, and informative data available to all relevant parties including



government agencies, planners, businesses, non-profit organizations, and the general public.

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$42,200	21 weeks
MassDOT (20% match)	\$10,550	5 weeks
FTA S. 5303	\$ 1,250	1 week
TOTAL	\$54,000	27 weeks

  

Direct Labor	\$24,680
Indirect Costs	\$29,320

### **Task 3.1 Regional Transportation Plan Update**

#### **OBJECTIVE:**

Perform an update of the 2012 Regional Transportation Plan for the Pioneer Valley Metropolitan Planning Organization (RTP). Work with MassDOT, the JTC, and MPO to incorporate appropriate Needs, Strategies and Projects for the Pioneer Valley region that address the requirements of MAP-21, the Massachusetts GreenDOT Policy, Healthy Transportation Directive, and Mode Shift Goal. Integrate newly developed regional performance measures into the long range planning process.

#### **PREVIOUS WORK:**

1. Regional Transportation Plans for the Pioneer Valley MPO – 1993, 1997, 2000, 2003, 2007, 2012

#### **PROPOSED ACTIVITIES:**

1. Update the status of current short and long range transportation recommendations included as part of the 2012 RTP.
2. Organize a series of comprehensive outreach efforts such as online surveys and regional focus groups to identify appropriate Needs, Strategies and Projects to be considered for inclusion in the RTP Update.
3. Develop a public participation schedule to present the RTP to the Pioneer Valley Region.
4. Incorporate appropriate regionally significant transportation recommendations from recently completed studies.
5. Update sections of the RTP as appropriate to incorporate new requirements resulting from the MAP-21 legislation.
6. Incorporate the new transportation project evaluation criteria into the RTP.
7. Develop a system performance report evaluating the condition and performance of the regional transportation system with respect to performance measures.
8. Work with the Office of Transportation Planning to develop a financially constrained listing of regional transportation improvement projects
9. Conduct air quality conformity and greenhouse gas analysis as necessary.
10. Develop a consultation strategy to integrate comments from regional environmental organizations into the RTP.
11. Develop a variety of visual and web-based products to assist in the distribution of draft and final versions of the RTP.
12. Update the PVPC website to present timely information on the status of the RTP.

#### **PRODUCTS:**

1. RTP Public Participation Process
2. RTP Outline
3. Regional Focus Groups

4. Draft and Final RTP

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$ 100,941	53 weeks
MassDOT (20% match)	\$ 25,235	13 weeks
FTA S. 5303	\$ 25,000	13 weeks
TOTAL	\$ 151,176	79 weeks

  

Direct Labor	\$ 69,093
Indirect Costs	\$ 82,083

**Task 3.3 Interstate Route I-91 Corridor Planning Assistance**

**OBJECTIVE:**

Continue to work with MassDOT, their consultant, and surrounding communities to assist in the management of traffic related to the viaduct reconstruction project and the advancement of a long range planning study to develop future improvement alternatives for the I-91 corridor.

**PREVIOUS WORK**

1. Data collection and analysis supporting the I-91 improvement project as requested by MassDOT.
2. I-91 Corridor Study Existing Conditions Report and Appendices.

**PROPOSED ACTIVITIES:**

- ~~1. Develop an I-91 Corridor Coalition for the purpose of coordinating the many multimodal projects proposed within the I-91 corridor. Work with MassDOT, FRCOG, ConnDOT, CRCOG, AMTRAK, bordering communities, and representatives from the railroad industry to develop the I-91 coalition and coordinate the status of ongoing activities along the corridor. Coordinate efforts with the I-95 Corridor Coalition as appropriate.~~
2. Participate as a member of the Project Advisory Committee for the Long Range Planning Study for I-91.
3. Assist MassDOT in the project public participation process to obtain feedback and guidance from project stakeholders.
4. Collect data to assist with ongoing planning and construction projects. (Ongoing Task)
5. Consistent with the Healthy Transportation Directive, MassDOT will be analyzing health outcomes as part of its I-91 Corridor Planning Study.
- ~~6. Work in cooperation with MassDOT, OTP, and their consultant to identify appropriate long range planning alternatives to increase safety and reduce congestion along the I-91 corridor. Specifically, PVPC will:
 
  - ~~i. Utilize data from PVPCs Interstate Route I-91 Corridor Planning Study to develop long range planning alternatives that compliment the I-91 Viaduct Study to the north~~
  - ~~ii. Conduct a planning assessment of each alternative for its potential impact on all transportation modes, greenhouse gas, safety, and the environment.~~
  - ~~iii. Identify the impact of project growth as a result of future development on the I-91 corridor.~~~~
- ~~7. Conduct a study that will evaluate alternative alignments for Interstate 91 between State Street and the interchange with I-291 in Springfield, Massachusetts (MassDOT Study).
 
  - ~~i. Identify existing issues and evaluate alternative alignments of I-91, including at-grade and below-grade alternatives. Address mobility and accessibility as it pertains to all travel modes. Perform a safety analysis, assess potential environmental impacts, and analyze impacts on land use and economic development. Perform an analysis of potential impacts with respect to Title VI and Environmental Justice.~~~~

- ii. ~~Develop a Project Working Group and Public Involvement Plan to review and comment on the project at key milestones. Provide continuous and meaningful opportunities for involvement by the public throughout the study process. Develop strategies to provide the opportunity for the full and fair participation by all potentially affected communities, including minority and low-income populations.~~
- iii. ~~Develop a forecast of future transportation conditions to 2035.~~
- iv. ~~Develop cost estimates for the approximate construction, operations, right-of-way, and mitigation costs for each alternative.~~

**PRODUCTS:**

- 1. ~~Alternatives analysis of options for the I-91 corridor as appropriate.~~
- 2. ~~Technical reports and analysis as necessary.~~

Source	Budget	Est. Staff Effort
FHWA PL (80%)	\$11,900	6 weeks
MassDOT (20% match)	\$ 2,975	2 weeks
TOTAL	\$14,875	8 weeks

Direct Labor	\$ 6,798
Indirect Costs	\$ 8,077



# FUNDING PROFILE

## FFY 2015 Unified Planning Work Program Funding Profile - Amendment

	Total	MassDOT			FTA S. 5303	PVTA*		PVTA		Scenic Byways
		FHWA 3C PL	3C Match	Local Match		S. 5303 Match	S. 5307	S. 5307 Match		
<b>1.0 Management &amp; Certification of the 3C Process</b>										
1.1 Management of the 3C Process	50,000	28,000	7,000		12,000	3,000				
1.2 Unified Planning Work Program	8,750	6,000	1,500		1,000	250				
1.3 Public Participation Process	22,550	12,040	3,010		6,000	1,500				
1.4 TIP Development	68,750	45,000	11,250		10,000	2,500				
1.5 Title VI and Environmental Justice	53,125	35,000	8,750		7,500	1,875				
<b>Subtotal of Section 1.0</b>	<b>203,175</b>	<b>126,040</b>	<b>31,510</b>		<b>36,500</b>	<b>9,125</b>				
<b>2.0 Technical Support &amp; Data Collection</b>										
2.1 Traffic Counting	37,500	30,000	7,500							
2.2 Regional Travel Demand Modeling/Clean Air Planning	80,625	60,000	15,000		4,500	1,125				
2.3 GIS, Mapping and Graphics	73,915	40,132	10,033		7,000	1,750	12,000	3,000		
2.4 Information Center	54,000	42,200	10,550		1,000	250				
2.5 Regional Congestion Management System - Data Collection	13,750	11,000	2,750							
2.6 Regional Pavement Management System - Data Collection	31,250	25,000	6,250							
2.7 Regional Performance Measures	17,500	14,000	3,500							
<b>Subtotal of Section 2.0</b>	<b>308,540</b>	<b>222,332</b>	<b>55,583</b>		<b>12,500</b>	<b>3,125</b>	<b>12,000</b>	<b>3,000</b>		
<b>3.0 RTP Planning</b>										
3.1 Regional Transportation Plan Update	151,176	100,941	25,235		20,000	5,000				
3.2 Transit System Surveys & Route Implementation	143,750				50,000	12,500	65,000	16,250		
3.3 Interstate Route I-91 Corridor Planning Assistance	14,875	11,900	2,975							
3.4 Regional Freight Planning	21,250	17,000	4,250							
3.5 Regional Congestion Management System - Project Development	60,000	40,000	10,000		8,000	2,000				
3.6 Regional Pavement Management System - Project Development	42,500	34,000	8,500							
3.7 Route 9 Safety and Livability Study - Northampton	31,250	25,000	6,250							
3.8 Regional Safety and Planning Studies	58,750	42,000	10,500		5,000	1,250				
3.9 Intelligent Transportation Systems (ITS) and Regional Evacuation Planning	37,500	25,000	6,250		5,000	1,250				
3.10 Climate Change Implementation	11,900	9,520	2,380							
3.11 Green Streets and Infrastructure	6,375	5,100	1,275							
3.12 Regional Bicycle and Pedestrian Planning	40,000	32,000	8,000							
<b>Subtotal of Section 3.0</b>	<b>619,326</b>	<b>342,461</b>	<b>85,615</b>		<b>88,000</b>	<b>22,000</b>	<b>65,000</b>	<b>16,250</b>		
<b>4.0 Ongoing Transportation Planning</b>										
4.1 Regional Transit Planning	184,471				61,577	15,394	86,000	21,500		
4.2 Paratransit Planning Assistance	28,750				10,000	2,500	13,000	3,250		
4.3 Implementing the Regional Land Use Plan	31,195	24,956	6,239							
4.4 Off-Road Bicycle and Pedestrian Network Planning	17,225	13,780	3,445							
4.5 Local Technical Assistance	24,250	19,400	4,850							
4.6 Local Pavement Management Program	4,000									4,000
4.7 Scenic Byways Support	6,375	5,100	1,275							
4.8 Regional Bicycle Commute Week	11,000	8,800	2,200							
4.9 Rte 112 and Jacob's Ladder Trail Scenic Byways Trails Linkages Project	0		0							68,375
4.10 Enhancing the Recreational Experience on the CT River Scenic Byway	203,364		0							203,364
4.11 Connecticut River Byway Corridor Management	78,067		0							78,067
<b>Subtotal of Section 4.0</b>	<b>588,697</b>	<b>72,036</b>	<b>18,009</b>	<b>4,000</b>	<b>71,577</b>	<b>17,894</b>	<b>99,000</b>	<b>24,750</b>		<b>349,806</b>
<b>MHD 3C Direct Costs</b>	<b>25,000</b>	<b>20,000</b>	<b>5,000</b>							
<b>Program Sum</b>	<b>1,813,114</b>	<b>782,869</b>	<b>195,717</b>	<b>4,000</b>	<b>208,577</b>	<b>52,144</b>	<b>176,000</b>	<b>44,000</b>		<b>349,806</b>

\*PVTA S. 5303 match is 20% of total program amount only.

## SUMMARY OF COMMENTS ON THE UPWP AMENDMENT

Task/Section	Comment	From	Response

## **MPO ENDORSEMENT**