

## POTENTIAL IMPACTS OF CONNECTED AND AUTONOMOUS VEHICLES

<b>Project ID Number</b>	<b>13284</b>
<b>Category</b>	<b>Multimodal Mobility</b>
<b>FHWA 3C PL Funds</b>	<del>\$35,500</del> \$0
<b>FTA Section 5303 Funds</b>	<del>\$14,500</del> \$0
<b>FFY 2018 Total Budget</b>	<del>\$50,000</del> \$0

Note: FTA and FHWA funds include the MassDOT local match.

### Purpose

This project will build on the FY 2017 Planning for Connected and Autonomous Vehicles (CAV) project, which was an important first step to understanding the transportation planning consequences of CAV technologies, as well as the preparation needed by the MPO for their impacts. The rapid pace of changes associated with CAV technology and its accompanying regulatory issues necessitate continual study and attention; hence research is an ongoing effort. Many of the questions posed in the 2017 study remain to be answered, and many new ones will be raised as the Boston Region MPO begins to understand and plan for CAV technologies.

### Approach

Based on recommendations and research from the 2017 study, MPO staff proposes to further examine CAV planning tools, such as travel demand modeling, as well as CAV issues related to MPO processes, such as LRTP planning and overall decision-making and evaluation. Staff will continue the ongoing coordination with key stakeholders identified in the previous study. Staff will also organize a workshop in which findings from CAV research will be shared with MPO member communities.

### FFY 2018 Anticipated Outcomes

This project would further investigate the research and recommendations from the FY 2017 study. A workshop will be conducted for MPO member communities at which CAV research will be presented. This workshop will also serve as an opportunity for staff to collect feedback from these stakeholders and understand their concerns regarding CAV issues.

## FEDERAL CERTIFICATION REVIEW

<b>Project ID Number</b>	<b>90025</b>
<b>FHWA 3C PL Funds</b>	<b>\$28,400</b>
<b>FTA Section 5303 Funds</b>	<b>\$11,600</b>
<b>FFY 2018 Total Budget</b>	<b>\$40,000</b>

*FFY = Federal fiscal year. FHWA = Federal Highway Administration FTA = Federal Transit Administration.*

*Note: FTA and FHWA funds include the MassDOT local match.*

### Purpose

Federal regulation requires that the Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) jointly review and evaluate the transportation planning process conducted in each transportation management area, defined as an urbanized area with a population of more than 200,000. This certification review must be conducted at least once every four years.

Subjects of focus for a certification review include compliance with the federal requirements of 23 United States Code (U.S.C.) 134, 49 U.S.C. 5303, and other associated federal laws; the challenges and successes of the planning process; and the cooperative relationship between the MPO, the public, and other transportation planning stakeholders.

### Approach

Certification reviews generally consist of four components: 1) a “desk review” of MPO planning products and documents, 2) a site visit and meeting(s) with the MPO (including a public meeting), 3) a final report by the Federal Review Team that summarizes the review and offers findings, and 4) a letter transmitting the report and announcing the findings of the review.

MPO staff anticipates that the desk review phase of the work, as well as planning for the site visits and meetings, will occur in the summer and early fall of 2018, supported by these funds. Staff support for the desk review will include responding to federal agency requests for information and documentation, and creating printed and graphical materials for the reviewers. Past experience with certification reviews indicates that it involves several different staff across the agency, who provide extensive written responses to myriad questions from our federal partners.

This round of recertification will span two federal fiscal years. Thirty thousand dollars is budgeted in the draft FFY 2019 UPWP for this activity.

### **FFY 2018 Anticipated Outcomes**

- Produce materials for review by the MPO's federal partners
- Respond to requests for information by federal agencies
- Plan for site visits and meetings to occur later in the recertification process

## 5.2 CERTIFICATION REQUIREMENT ACTIVITIES

This section describes the certification requirement activities and plans that MPO staff conducts during the FFY.

### 3C PLANNING AND MPO SUPPORT

Project ID Number	See Individual Tasks Below	
FHWA 3C PL Funds	<del>\$440,773</del>	\$447,560
FTA Section 5303 Funds	<del>\$170,837</del>	\$174,050
<b>FFY 2018 Total Budget</b>	<del><b>\$611,610</b></del>	<b>\$621,610</b>

Note: FTA and FHWA funds include the MassDOT local match.

### Purpose

The work described below consists of the 3C activities that support the federally mandated transportation-planning process that is continuing, comprehensive, and cooperative. This process creates numerous products and materials and furthers MPO operations and decision-making.

### Approach

The activities included in this category of certification requirements are separated into the specific work areas detailed below.

#### SUPPORT TO THE MPO

**Project ID 9118: Support to the MPO and Its Committees** ~~\$229,360~~ \$235,360

The work task *Support to the MPO and Its Committees* includes implementing MPO policies on planning and programming, planning and coordinating delivery of information for MPO decision-making, and supporting the work and operation of the MPO and its committees. It involves providing support for MPO meeting management and planning, delivering MPO communications, and implementing various aspects of the MPO's public participation program.

Some tasks related to MPO meetings, MPO committee meetings, Regional Transportation Advisory Council (Advisory Council) meetings, and other MPO-sponsored meetings include:

- Developing meeting agendas
- Preparing and distributing informational materials, including documents posted on the MPO's website and via email
- Conducting meeting site selection and logistics planning
- Setting up audio/visual equipment for meetings
- Attending and recording meetings
- Completing meeting follow up activities, such as maintaining the information flow for members of the MPO and the public, processing approved work scopes, preparing audio-recording files, and documenting meeting minutes

Technical and process support is provided to the MPO's Unified Planning Work Program (UPWP) Committee, Administration and Finance (A&F) Committee, Congestion Management Process (CMP) Committee, and other ad hoc committees that are formed as needed.

- The UPWP Committee meets as needed throughout the year to develop a UPWP for the upcoming federal fiscal year (FFY) and to monitor expenditures and the progress of studies and programs in the current fiscal year.
- The CMP Committee meets as needed throughout the year to discuss the federally required CMP. Activities include developing and reviewing its Transportation Improvement Program (TIP) Intersection Improvement Program and making recommendations to the MPO.
- The A&F Committee meets periodically to make recommendations to the MPO on the staff's operating budget, legal matters, and other administrative functions.

This work program also includes consultation with other entities and agencies involved with or interested in 3C planning activities, collaboration with other Massachusetts MPOs (with more detailed coordination with those in the Boston Region urbanized area), and communication with Metropolitan Area Planning Council (MAPC) subregional groups.

MPO support also includes conducting metropolitan transportation planning and implementing planning activities for the MPO. The goal of this work is to ensure compliance with federal regulations and requirements and to provide excellence in transportation planning processes, techniques, and outcomes. The work involves researching, analyzing, and reporting information on 3C planning topics, including those identified in federal reauthorization legislation, and issues related

to other federal policies, regulations, and guidance. It also involves responding to federal recommendations or requirements for certification documents or MPO certification, and incorporating new requirements into the MPO's 3C program. MPO staff will continue to implement Fixing America's Surface Transportation (FAST) Act requirements (see Chapter 2 and Chapter 3) as guidance from this federal legislation is communicated to the MPO, and staff will also be prepared to implement future legislation.

Other activities include day-to-day oversight of 3C program-related activities, reports on the progress of projects listed in the UPWP, collecting and fielding daytoday comments and inquiries, and responding to requests for information and support.

***Project ID 9318: Regional Transportation Advisory Council Support \$109,110***

The Advisory Council is the MPO's citizens' advisory committee. MPO staff provides operations support to this body and its subcommittees. This includes planning programs and meetings, scheduling speakers, and preparing and distributing agendas, meeting notices, informational packets, and meeting minutes. It also includes helping to conduct meetings; attending and making presentations at meetings; organizing and conducting field trips; soliciting new members; implementing and updating the bylaws; coordinating other activities, such as Advisory Council elections; and maintaining contact lists.

MPO staff regularly provides information, updates, and briefings on MPO activities, studies, and reports; requests and coordinates comments on MPO documents; and works with the Advisory Council and its committees as they conduct their programs, planning, and reviews.

***Project ID 9618.04: TRANSREPORT***

The MPO's electronic newsletter (blog), TRANSREPORT, is an important part of the MPO's public involvement program. MPO staff is responsible for soliciting, researching, and writing articles about MPO studies and activities. This work includes managing all aspects of the blog's production: writing and editing, creating graphics, proofreading, and distributing the newsletter via email (and US mail, upon request).

***Project ID 9618: Public Participation Process ~~\$187,970~~ \$191,970***

MPO staff implements the MPO's Public Participation Program according to the MPO's Public Participation Plan. The program includes coordinating and implementing the MPO's public outreach activities, which are opportunities to involve all members of the public, including:

- Local, regional, state, and federal officials and agencies
- Transportation, environmental, and social service advocacy groups
- The elderly, minorities, people with low incomes, people with disabilities, people with limited English-language proficiency, youth, veterans, and people living in zerovehicle households

- Freight operators
- Transit service providers
- Other interested parties and other members of the general public

This program provides information to these parties and collects input from them for the MPO to use in its planning, decision-making, and development of certification documents, including programming the region's transportation funding. The program supplements the involvement of the Regional Transportation Advisory Council.

Communication is ongoing and conducted through a variety of means.

- Website
- Public meetings
- Municipal Outreach via Subregional Meetings

In FFY 2018, the MPO will continue to refine its Public Participation Process, implementing tactics designed to break down barriers to participation for groups currently underrepresented in the planning process. Activities may include:

- Maintain frequent e-based communications, including press releases, public notices, and refreshed website newsflashes/Twitter tweets regarding ongoing planning products and MPO milestones and events
- Team with other entities to conduct joint programs and outreach
- Expand the MPO program to involve people in the region with limited English-language proficiency by translating critical documents (e.g., the Title VI Complaint Process and Form and notices of MPO-sponsored public-participation meetings) into the MPO languages of policy, including Spanish, Portuguese, and Chinese. If information is needed in another language, Boston Region stakeholders are encouraged to contact the MPO's Title VI Specialist.
- Integrate the Title-VI-related Four Factor Analysis for guidance on providing materials in languages other than English
- When planning meetings, take additional steps to understand the language and cultural needs of those who might attend
- Make it a standard practice to solicit comments on the Public Participation Program from meeting participants, and conduct periodic assessments of the effectiveness of public involvement activities
- Encourage public libraries to make MPO information available
- Increase the MPO's use of graphic materials to provide information
- Offer more web-based surveys at timely points in the planning process

- Continue the quest for tools and practices to make outreach activities as interactive, engaging, and easily accessible as feasible
- Expand the use of Twitter and participation in the MPO website's Rich Site Summary (RSS) feed to enhance communication

The MPO's Public Participation Program also involves consultations as specified in federal guidance; arranging, upon request, for the provision of American Sign Language (ASL) and other language interpretation services at meetings; and providing public participation support to MPO member entities.

## **OTHER 3C PLANNING SUPPORT ACTIVITIES**

### ***Project ID 9118.09: Professional Development***

MPO staff maintains its technical expertise in part by participating in courses, programs, and workshops offered by FHWA, the FTA, the Transportation Research Board (TRB), the Association of Metropolitan Planning Organizations (AMPO), the Institute of Transportation Engineers (ITE), and other public and private organizations. Previous professional development endeavors have related to topics such as performance-based planning, traffic engineering issues and applications, regional modeling, bicycle/pedestrian issues, transit planning, public involvement, environmental justice, air quality, computer operations and maintenance, database applications, and other areas related to the provision of technical support services.

### **Project ID 9218: General Graphics \$85,170**

Graphics support will be provided by MPO staff to MPO agencies. This includes designing and producing maps, charts, illustrations, report covers, brochures, slides, and photographs; applying other visualization techniques; and creating other products that improve communication.

## **FFY 2018 Anticipated Outcomes**

Staff will prepare materials—including agendas, minutes, notices, document translations, memoranda, reports, correspondence, summaries, and website postings, as well as maps, charts, illustrations and other visual materials—as needed; continue to support the MPO and its committees and the Regional Transportation Advisory Council; conduct communications with the public, including publishing TRANSREPORT; conduct planning to support compliance with federal requirements and guidance; engage in professional-development activities; and remain prepared for unforeseen initiatives as they arise.

Note: The above activities support all other projects in this UPWP in compliance with the 3C planning process. They foster implementation of MPO policies, federal planning factors and guidance, and all applicable orders and requirements, including Executive Order 13166 (governing outreach to persons with limited English-language proficiency). These activities are supported by the Provision of Materials in Accessible Formats project.