

**TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT**

Lead Agency (FHWA or State DOT): Michigan Department of Transportation

INSTRUCTIONS:

Transportation Pooled Fund Program Project # TPF-5(231)	Transportation Pooled Fund Program - Report Period: <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input checked="" type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31)	
Project Title: ITS Pooled Fund Program (ENTERPRISE)		
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Lead Agency Project ID:	Other Project ID (i.e., contract #): 2010-0316	Project Start Date: January 2010
Original Project End Date: September 2012	Current Project End Date: September 2016	Number of Extensions: 4

Project schedule status:

On schedule
 On revised schedule
 Ahead of schedule
 Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Total Percentage of Work Completed
\$2,200,000 (5 year estimated budget, final Budget dependent on member contributions)	\$1,814,585	83%

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$41,729	\$41,729	2%

Project Description:

The ENTERPRISE Pooled Fund Program performs technical projects to serve the needs of the member agencies. Currently, 10 member agencies participate in the ENTERPRISE Pooled Fund. Each year, the members identify current needs of their organization that they feel are most suited to be addressed by pooled fund projects. After identifying candidate projects, the members discuss and ultimately vote to elect the projects to be included in the year's Work Plan. Technical projects are then performed to execute the projects and address member needs. Overall, three high level tasks are performed:

- **Management support** to the program, the lead state, and to members;
- **Administrative support** to organize and conduct in-person meetings and monthly webinars; and
- **Technical support** to execute the technical projects selected for each year's Work Plan.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

Administrative/Management Task:

- Three conference calls were held during the 2nd Quarter. The purpose of the meetings were to provide project updates and begin planning for the next work plan.

Technical Task:

- Project 18: Countermeasures for Wrong Way Driving on Freeways (Wrong Way Vehicles and Freeways)
Project Goal: Create a matrix of wrong way systems being tested and developed by building off previous related projects and research. The matrix will include details of the wrong way system (e.g. location of wrong way system, type of system deployed, data being collected). The project will also track research results of each deployment. By tracking the deployments, this project will seek to understand which approaches have the greatest impacts, which are socially acceptable, and which have institutional issues.
 - Continued tracking wrong-way deployments by keeping in touch with the agency contacts to collect additional details (e.g. design drawings, standards, lessons learned and any evaluation results) as available. Several follow-up interviews were scheduled and conducted. Deployment summaries are being finalized and routed to agency contacts for verification of details.
- Project 19: Performance Measures and Reporting
Project Goal: Research and summarize the implications of performance-based management, current practices among agencies that have established performance efforts, and then document a series of case studies where technologies are used to collect and analyze performance.
 - Project completed. Project webinar held on April 25 to share overall project results.
 - Final Report posted on the ENTERPRISE website at:
http://enterprise.prog.org/Projects/2013/performance_measures.html
- Project 20: Integrating ITS with Planning and Operations (ITS Operational Plans and Resources and Decision Tree for Planners)
Project Goal: This project will assess what guidance exists for including ITS in operational plans. Such guidance can be used to describe the placement of IT devices, who will operate, maintain and own them, and how the devices will be used in daily or other operational scenarios.
 - Continued development of tool content for Traveler Information and presented to project champions on April 14. Champions approved approach and continued development. Scheduled meeting to review progress with USDOT Planning for Operations staff on May 4.
 - Reviewed progress with USDOT on May 4. Continued development and reviewed further progress with champions on May 17. Developed plan for finalizing tool, conducting outreach and completing the project by August.
 - Completed draft of tool and reviewed with champions on June 21. Scheduled and issued invitations for a review webinar on August 4.
- Project 23: ITS at International Borders
Project Goal: This project will provide members with a summary of current and emerging practices for the use of ITS technologies at international borders.

- Held second Project Team meeting in April to discuss topics and potential formats for sharing current practices.
- Began planning format for sharing current practices. Developed webinar agenda, identified and invited speakers and distributed invitation to the first webinar on July 26 on Data Collection and Uses at International Borders.
- Project 24: Portable Travel Time Displays and ICM with Parallel Routes – Phase 1
Project Goal: To support Phase 1 of this effort to develop a project plan and system engineering documents to be used in future phases of deployment
 - Issues/challenges and needs were presented during the April Board Meeting.
 - In June, distributed draft Operational Concept and Functional Requirements for feedback.
- Project 25: The Future of DMS Messaging
Project Goal: To support the ENTERPRISE Pooled Fund members to research and document Dynamic Message Signs (DMS) uses and appropriateness of DMS demands
 - In April, started online research of related studies, DMS requests and DMS policies.
 - Presented DMS policies and guidelines including DMS requests and uses as well as prohibited messages during the June board meeting. Also presented a list of related studies and DMS future uses.
- Project 26: Integrate Active Work Zone Notifications into Traveler Information Dissemination Systems
Project Goal: To support a first phase of the project to develop 'model' systems engineering documents (Concept of Operations and System Requirements) that ENTERPRISE agencies could use when implementing solutions to integrate active work zone notifications into current Traveler Information dissemination systems
 - Created a one-page project summary. In April, invited ENTERPRISE members to join the project team and to suggest other project team members from their agencies.
 - In May, conducted and summarized research into similar system integrations that convert active/changing field device statuses (e.g. weather data from RWIS stations) to traveler information. Summarized current and future capabilities of arrow board devices, noting challenges to be addressed during the project.
 - In June, convened the project team, which consists of 12 individuals from ENTERPRISE agencies with expertise in work zone operations, ITS, TMC operations, and traveler information. Held a project team webinar to review project objectives and tasks, research findings, and scenario discussion topics.
- Project 27: Policies, Laws and Agreements for the Use of Fiber Communications
Project Goal: To support preparing a summary of resources (policies, laws, agreements) on the use of fiber communications at transportation agencies and to highlight best practices for sharing fiber infrastructure.
 - Started online research of policies, laws and agreements.
 - Began developing survey questions and identify survey recipients.
- Project 28: Demonstrate and Evaluate Communications to Support Rural ITS – Phase 2
Project Goal: Evaluate commercially available products for sending full motion video over cellular. Research practices for checking operability of rural field devices remotely.
 - Organized demonstrations from Qvision and LiveView, which were provided to members at the April ENTERPRISE Board Meeting. Continued to document test deployments in Iowa as they are being deployed. Documented a list of six use cases for how DOTs would use products for transferring full motion video from rural traffic cameras. Each case documents associated operational requirements. These use cases will serve as a basis for the criteria to be developed in the evaluation plan.
 - In May, shared use cases summary with ENTERPRISE Board and project champion to collect input.
 - Drafted an evaluation approach, data needs, and metrics based on the defined use cases.

Anticipated work next quarter:

Administrative/Management Support Task:

- Monthly webinars will be held in July and September. An in person meeting will be held in August in Minneapolis, Minnesota.

Technical Task:

- Additional projects from the 2013-2015 Work Plans will begin to commence during the next quarter.
- Continue to complete project tasks for the active work plan projects.

Significant Results:

Projects completed:

- Project 19: Performance Measures and Reporting

Circumstance affecting project or budget (Describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope, and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).

N/A