

**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 checked="" type="checkbox"/> Quarter 1 (January 1 – March 31) <input 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)		
Project Manager: Lee Nederveld Phone: (517) 335-5317 E-mail: nederveldl@michigan.gov		
Project Investigator: Dean Deeter, Athey Creek Phone: 503.343.9602 E-mail: deeter@acconsultants.org		
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)	\$1,762,840	80%

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$121,975	\$121,975	6%

Project Description:

The ENTERPRISE Pooled Fund Program performs technical projects to serve the needs of the member agencies. Currently, 16 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:

- One conference call was held during the 1st Quarter and one in person meeting was held in Irvine, California with the ENTERPRISE board members. 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.
 - January - March 2016 – Continued tracking wrong way deployments by keeping in touch with the agency contacts to collect additional details (e.g. design drawings, standards, and any evaluation results) as available.
- 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.
 - January 2016 – Completed Milestone 2: ENTERPRISE members' measurement technologies, performance monitoring, DOT role and cross border coordination
 - February 2016 – Summarized opportunities to share ENTERPRISE member information gathered during this project with federal organizations.
 - March 2016 – Scheduled project webinar for April 25 and drafted final report.
- 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.
 - January/February 2016 – Presented decision support tool approach to Project Champions and Wayne Berman (Planning for Operations Program) and discussed additional options.
 - March 2016 – Presented decision support tool approach to ENTERPRISE board. Agreed to focus on one TSMO areas (traveler information) and develop tool with additional emphasis on selecting operational objectives and corresponding strategies. Began developing tool content.
- 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.
 - January 2016 – Prepared content (agenda, meeting guide) for information gathering webinars.

- February 2016 – Conducted 2 information gathering webinars to gather input for the northern US border and the southern US border on traffic management current practices.
- March 2016 – Scheduled second Project Team meeting to review input received during the information-gathering webinars and begin to discuss a format for sharing current practices.
- 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
 - January 2016 – Project Authorized 1.20.16
 - March 2016 – Project kicked off during March in person meeting in Irvine, California.
- 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
 - January 2016 – Project Authorized 1.20.16
 - February 2016 – Conference Call held with Project Champion to review project scope.
 - March 2016 – Project kicked off during March in person meeting in Irvine, California.
- 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
 - January 2016 – Project Authorized 1.20.16
 - February 2016 – Conference call scheduled with Project Champion to review project scope.
 - March 2016 – Project kicked off during March in person meeting in Irvine, California.
- 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.
 - January 2016 – Project Authorized 1.20.16
 - February 2016 – Conference Call held with Project Champion to review project scope.
 - March 2016 – Project kicked off during March in person meeting in Irvine, California.
- 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.
 - January 2016 – Project Authorized 1.20.16
 - February 2016 – Conference Call held with Iowa DOT personnel, to begin documenting current and expected deployments of products for streaming video over cellular, which will be evaluated during the project.
 - March 2016 – Project kicked off during March in person meeting in Irvine, California. Demonstrations coordinated from QVision and Live View for April ENTERPRISE Board Meeting.

Anticipated work next quarter:

Administrative/Management Support Task:

- Monthly webinars will be held in April, May and June.

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 kicked off:

- Project 24: Portable Travel Time Displays and ICM with Parallel Routes – Phase 1
- Project 25: The Future of DMS Messaging
- Project 26: Integrate Active Work Zone Notifications into Traveler Information Dissemination Systems
- Project 27: Policies, Laws and Agreements for the Use of Fiber Communications
- Project 28: Demonstrate and Evaluate Communications to Support Rural ITS – Phase 2

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