TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT):   __Michigan Department of Transportation_____

INSTRUCTIONS:

Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

Transportation Pooled Fund Program Project # TPF-5(231)	Transportation Pooled Fund Program - Report Period: ☐Quarter 1 (January 1 – March 31) ☐Quarter 2 (April 1 – June 30) ☒Quarter 3 (July 1 – September 30) ☐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	
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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: December 2015	**Current Project End Date:**	**Number of Extensions:**

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)	$1,335,227	61%

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
$209,109	$116,515	5%

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:

- Two conference calls were held during the 3rd Quarter and one in person meeting with the ENTERPRISE board members. The in person meeting was held in Branson, Missouri in conjunction with the National Rural ITS Conference. The purpose of the meeting was to provide project updates and vote on work plan 2015 projects.

Technical Task:

- Project 5: ICWS Coordination and Systems Engineering – Phase 2
  Project Goal: An extension of Project 1, this project will further support the standardization of ICWS by coordinating among the various national standards and association groups, and by developing a concept of operations and system requirements for the four types of ICWS identified in the Design and Evaluation Guidance for Intersection Conflict Warning Systems.
  - Project completed. The final project deliverables are available at:
    http://enterprise.prog.org/Projects/2010_Present/icwsphase2.html

- Project 12: Connected Vehicles Data Element ConOps
  Project Goal: This effort will examine the opportunities for state DOT's to improve highway operations and safety through the use of Connected Vehicles sourced data.
  - Project completed. The final report is available at:
    http://enterprise.prog.org/Projects/2010_Present/intellidriveconops.html

- Project 14: Next Generation Traffic Data and Incident Detection from Video (Phase 2) – Evaluation
  Project Goal: To evaluate video streams of traffic data and incident detection. Test environments are expected to include rural area animal detection (to warn of animal crossings), and metropolitan area incident detection.
  - Project completed. The final report is available at:
    http://www.enterprise.prog.org/Projects/2010_Present/nextgenerationvideo.html

- Project 15: ITS Warrants Review Support
  Project Goal: To continue to coordinate with the SCOTE ITS Warrants Review Task Force and other review committees for periodic review of the ITS Warrants. The project will also continue to maintain the ITS Warrants documentation, develop additional warrants for ITS devices and conduct outreach to promote use of the warrants.
  - Project authorized September 25, 2014.

- Project 16: Investigating Distribution Mechanisms for ENTERPRISE Technical Products
  Project Goal: To investigate mechanisms (e.g. libraries and databases) for distribution of ENTERPRISE Final Reports, exploring requirements, procedures, and related costs that would be involved if the wider distribution mechanisms were selected and to facilitate discussions among ENTERPRISE Board members to discuss the dissemination mechanisms and debate the benefits vs. costs and ultimately to determine if any additional distribution should be pursued.
  - Project authorized September 25, 2014.

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- Project 17: ICWS Support and Outreach
  Project Goal: To provide support to ENTERPRISE members seeking to deploy ICWS, to support peer exchange webinars on ICWS topics, conduct ICWS outreach and support coordination with national standards groups, industry associations and other pooled fund programs that have been engaged through the ENTERPRISE ICWS work.
    o Project authorized September 24, 2014.

- Project 18: 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.
    o Project authorized September 25, 2014.

Anticipated work next quarter:

Administrative/Management Support Task:
- Monthly webinars will be held in October, November and December.

Technical Task:

- Project 15: ITS Warrants Review Support
    o Incorporate final changes from the SCOTE review committee and update the program website and warrants documentation.
- Project 16: Investigating Distribution Mechanisms for ENTERPRISE Technical Products
    o Complete project.
- Project 17: ICWS Support and Outreach
    o Develop a detailed project approach and schedule.
- Project 18: Wrong Way Vehicles and Freeways
    o Conduct a literature review.
- Additional projects from the 2013-2014 Work Plan will begin to commence during the next quarter.

Significant Results:

Project completed:
- Project 5: Intersection Conflict Warning System – Phase 2
- Project 12: Connected Vehicles Data Element ConOps
- Project 14: Next Generation Traffic Data and Incident Detection from Video (Phase 2) – Evaluation

Projects authorized:
- Project 15: ITS Warrants Review Support
- Project 16: Investigating Distribution Mechanisms for ENTERPRISE Technical Products
- Project 17: ICWS Support and Outreach
- Project 18: Wrong Way Vehicles and Freeways

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