TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Michigan DOT

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 # *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)* TPF-5(359)	**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: Evaluating New Technologies for Roads Program Initiatives in Safety and Efficiency- ENTERPRISE[PHASE II]		
Name of Project Manager(s): Elise Feldpausch	**Phone Number:** 517-636-0036	**E-Mail** FeldpauschE1@michigan.gov
Lead Agency Project ID: OR17-101	**Other Project ID (i.e., contract #):** 2018-0172	**Project Start Date:** 10/1/2016
Original Project End Date: 9/30/2021	**Current Project End Date:** 9/30/2021	**Number of Extensions:** 0

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	Percentage of Work Completed to Date
$1,032,967.00	$298,679.97	44%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$298,679.97and 38%	$109,493.03	18%

Project Description:

TPF-5(359) is a continuation of TPF-5(231) led by the Michigan Department of Transportation. This pooled fund federal project originated under the project titled "ENTERPRISE Group" that was established in 1991. Each year, partner members contribute funds in support of ITS projects of mutual interest and develop an annual work plan.

Selected research studies/projects typically involve private sector partners contracted to work with designated member agencies. An administrative contract, currently with CTC & Associates LLC, covers project management, meeting planning, website and other tasks. Over time ENTERPRISE has grown into a multi-national consortium dedicated to the advancement of ITS. The consortium provides a focus for coordinating ITS developments and sharing results within and outside the ENTERPRISE program.

Primary Focus:
To develop and carry out a joint research program to develop, evaluate, and deploy ITS technologies.

Objectives:
1. Investigate and promote ITS approaches and technologies that are compatible with other national and international ITS initiatives.
2. Support the individual ITS program plans of ENTERPRISE participants.
3. Provide a mechanism to support multi-state and international project cooperation and technical information interchange.
4. Facilitate the formation of public-private partnerships for appropriate program activities.
5. Pursue emerging ITS project opportunities in areas of interest to the group.
6. Provide test beds in a variety of environments and locations for emerging ITS technologies.
7. Identify common needs within the group and proceed with appropriate technical activities.

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

--Board teleconferences held on July17, August 21 and September 18, 2019. CTC & Associates takes notes during the meeting, posts minutes on the ENTERPRISE website and distributes to the members.

--CTC finalized planning for the next bi-annual Board Meeting in Bloomington, MN from October 8-10, 2019. This included travel and meeting logistics, final agenda and working with Athey Creek on the project workshop on October 8th.

--CTC & Associates updated the ENTERPRISE website (http://enterprise.prog.org) with current information.

Research projects - Athey Creek
-Project 1: Evolution of ITS in Asset Management (Nov 2018 - Nov 2019)
--Task 1: (Literature Search, Survey and Interviews) - Work continued on this task. The literature review is complete and interviews are still being scheduled with asset management staff from the states. This task is still ongoing as interviews with IA, IL, KS, MI, MN, MTO, PA and WI have been conducted and we are working to schedule one more interview with TX.
--Task 2: Traveler Info Services Estimated Lifecycle - This task is underway. Coordination efforts with the FHWA, who is developing ITS asset management guidance, have begun. Athey Creek is in contact with FHWA, working to avoid duplication and leveraging FHWA efforts, and awaiting the release of an FHWA report. Because of the sheer volume of ITS types, this task will document strategies for assessing lifecycles.
--Task 3: ITS Asset Criteria – This task is underway. ITS asset types have been defined. Characteristics for those types have also been defined. Criteria to be used for assessing ITS assets are being identified along with their purpose in assessment. Those criteria are being mapped to different types.

Anticipated work next quarter:

The Board will hold monthly teleconferences on November 20 and December 18, 2019. CTC & Associates will create agendas, take notes, and finalize, distribute and post meeting minutes.

The next in-person Board Meeting will be held in Bloomington, MN from October 8-10, 2019. This will include scheduling, agenda development, guest participants and speakers, meals, travel, facilities and meeting facilitation.

CTC & Associates will monitor the research projects schedules and obtain TAC approval for Athey Creek's monthly invoices.

CTC & Associates will continue to update the ENTERPRISE website (http://enterprise.prog.org) with current information. A refreshed ENTERPRISE website will be proposed at the October Board Meeting, and if approved, CTC & Associates will make changes to the site.

Research projects - Athey Creek

- Project 1: Evolution of ITS in Asset Management (Nov 2018 - Nov 2019)
--Task 1: Literature Search, Survey and Interviews – This task will be completed.
--Task 2: Traveler Info Services Estimated Lifecycle - This task will be completed.
--Task 3: Traveler Info Asset Management Criteria – This task will be completed.

-Project 2: Phasing out Legacy ITS Systems/Devices (Nov 2018 - Nov 2019)
--Task 4: Present Findings – Conduct the project findings webinar on Oct 1.
--Task 5: Draft Report – Make changes to the draft report per review comments received.
--Task 6: Final Report – Finalize the research report, distribute it to project participants, and send it to CTC for posting on the ENTERPRISE web site.

Significant Results:

See Progress This Quarter section.

Circumstance affecting project or budget. (Please 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).

None

Potential Implementation:

To be determined as individual projects progress.