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:** 1/2/2018
Original Project End Date: 1/2/2021	**Current Project End Date:** 1/2/2021	**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
$912,967.00	$61,587.90	2%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$61,587.90 and 40%	$24,579.37	6%

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 October 17 and December 19, 2018.

A bi-annual Board Meeting was held in Naperville, IL on November 14-15, 2018.
-CTC & Associates was responsible for the meeting planning and logistics including meeting agenda, meals, travel, facilities and tour coordination. CTC assisted with meeting facilitation and took the meeting notes.
-Athey Creek presented detailed work plans for five primary research projects and preliminary work plans for six secondary projects.

Research projects - Athey Creek
-Project 1: Evolution of ITS in Asset Management (Nov 2018 - Nov 2019)
--Task 1 (Literature Search, Survey and Interviews) - Work began on this task.

-Project 2: Phasing out Legacy ITS Systems/Devices (Nov 2018 - Nov 2019)
--Task 1: Literature Search, Survey and Interviews - Work began on this task.

-Project 3: Real-Time Integration of Arrow Board Messages into Traveler Information Systems - Phase III (Nov 2018 - Nov 2019)
--Task 1: Identify Systems to Evaluate - Work began on this task.

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

Anticipated work next quarter:

--The Board will hold monthly teleconferences on October 17 and December 19.

--CTC & Associates will finalize the preparations for the next bi-annual Board Meeting in Austin, TX on March 20-21, 2019. This will include scheduling, agenda development, guest participants and speakers, meals, travel, facilities, tours coordination and meeting facilitation.

Research projects - Athey Creek - (Project updates are presented at each monthly Board meeting.)
-Project 1: Evolution of ITS in Asset Management (Nov 2018 - Nov 2019)
--Task 1: Literature Search, Survey and Interviews - This task is scheduled to be completed.
--Task 2: Traveler Info Services Estimated Lifecycle - This task is scheduled to be completed.
--Task 3: Traveler Info Asset Management Criteria - Work will begin on this task.

-Project 2: Phasing out Legacy ITS Systems/Devices (Nov 2018 - Nov 2019)
--Task 1: Literature Search, Survey and Interviews - This task is scheduled to be completed.
--Task 2: Case Studies - Work will begin on this task.

-Project 3: Real-Time Integration of Arrow Board Messages into Traveler Information Systems - Phase III (Nov 2018 - Nov 2019)
--Task 1: Identify Systems to Evaluate - This task is scheduled to be completed.
--Task 2: Deployment Similarities and Differences - Work will begin on this task.
--Task 3: Evaluation Criteria - Work will begin on this task.

-Project 4: Update of RICWS Materials Developed in Phases 1-3 (Feb 2019 - Feb 2020)
--Task 1: Issues and Questions with Developing Next-Generation ICWS: Work will begin on this task.
--Task 2: Literature Search, Survey and Interviews - Work will begin on this task.

Significant Results:

Bi-annual Board Meeting held in Bloomington, MN from October 8-10, 2019. Athey Creek presented work plans (detailed and preliminary) on their eleven research projects. Work began on three of the eleven projects.

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.