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
$1,324,920.00	$547,707.46	85%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$547,707.46 and 14%	$77,616.55	30%

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 April 15, May 20 and June 17, 2020.

Research projects - Athey Creek
-Project 1: Evolution of ITS in Asset Management (Nov 2018 - Mar 2020)
--Task 1 (Literature Search, Survey and Interviews) - Completed
--Task 2: Traveler Info Services Estimated Lifecycle - Completed.
--Task 3 – ITS Asset Criteria – Completed.
--Task 4 – Present Findings – Mostly completed, anticipating one additional webinar presentation to the PFS.
--Task 5 – Draft Report – Completed
--Task 6 – Final Report - Completed
--Final report posted on ENTERPRISE website.
PROJECT COMPLETE

--Project 6: Emerging Practices for Communications Infrastructure (Oct 2019-Sep 2020)
--Task 1: Project Team – Conducted project team meetings on May 4 and June 9. Shared highlights from interviews conducted and other information gathered.
--Task 2: Cybersecurity Research Gap Assessment – Completed summary of FHWA synthesis on cybersecurity at TMCs.
--Task 3: Agency Interviews – Conducted interviews with several state transportation agencies (Wisconsin DOT, Michigan DOT, MnDOT, MTO, Utah DOT, Georgia DOT) and prepared interview summaries.
--Task 4: Private Sector Input – Reached out to several potential contacts at Verizon. Received input from Verizon in the form of company literature and began reviewing it for applicability to the project.
--Task 5: Draft Report – Began drafting sections of the draft report, based on information gathered to date.

Anticipated work next quarter:

The Board will hold monthly teleconferences on July 15, August 19 and September 16, 2020. CTC & Associates will create agendas, take notes, and finalize, distribute and post meeting minutes.

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

CTC & Associates will continue to provide assistance to Athey Creek on individual research projects.

CTC & Associates will continue to provide assistance to MDOT on members' pooled fund commitments and transfers.

CTC & Associates will refresh the ENTERPRISE website, under the guidance of the Board. The refresh will make the website more streamlined, organized and easier for visitors to navigate. CTC & Associates will also continue to update the ENTERPRISE website (http://enterprise.prog.org) with current information. T

CTC & Associates will begin planning for the October 27-29, 2020 webinar.

Research projects - Athey Creek (Project updates are presented at monthly Board meetings.)

-Project 6: Emerging Practices for Communications Infrastructure
--Task 1: Project Team – Conduct project team meetings approximately every 4-6 weeks, to provide updates and gather input.
--Task 2: Cybersecurity Research Gap Assessment – Monitor NCHRP website for publication of the report on cybersecurity at field devices. This report may not be available in time for synthesizing in this project report, in which case the literature review published early in the NCHRP project will be referenced in this project report.
--Task 4: Private Sector Input – Complete an interview or review written input from Rogers (in Canada), if they agree to participate in the study.

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.