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:** 11/30/2021	**Number of Extensions:** 1

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
$1,354,920.00	$622,039.41	57%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$622,039.41 and 12%	$74,371.55	65%

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.):

An amendment to the CTC & Associates contract was finalized. The new contract end date is 12/31/2022 and the new budget is $289,231.94.

Board teleconferences held on July 15, August 19 and September 16, 2020. CTC & Associates created agendas, took notes, and finalized, distributed and posted meeting minutes.

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

CTC & Associates began planning the refresh of the ENTERRPRISE website.

CTC & Associates provided assistance to Athey Creek related to individual research projects.

CTC & Associates provided assistance to MDOT on members' pooled fund commitments and transfers.

Research projects - Athey Creek

-Project 6: Emerging Practices for Communications Infrastructure (Oct 2019-Oct 2020)
--Task 1: Project Team – Conducted project team meetings on August 4, to share initial project results.
--Task 2: Cybersecurity Research Gap Assessment – Completed a summary of the NCHRP research project and online tool for cybersecurity of field devices.
--Task 3: Agency Interviews – Finalized interview summaries, for inclusion in the draft report.
--Task 4: Private Sector Input – Incorporated the Verizon input into the draft report.

Anticipated work next quarter:

The Board will hold monthly teleconferences on November 18 and December 16 2021. CTC & Associates will create agendas, take notes, and finalize, distribute and post meeting minutes.

Travel restrictions from COVID-19 will require the fall bi-annual, three-day meeting to be held as a webinar on October 27-29, 2020.
-CTC & Associates will be responsible for the meeting planning and logistics including meeting agenda and guest speakers. CTC will take the meeting notes, and finalize, distribute and post meeting minutes.
-Athey Creek will present project updates and kickoff several projects.

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 update the Board on the refresh the ENTERPRISE website. 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.

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

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.