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
$1,062,967.00	$375,110.47	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
$375,110.47and 20%	$76,430.50	23%

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 November 20 and December 18, 2019.

A bi-annual Board Meeting was held in Bloomington, MN from October 8-10, 2019.
-CTC & Associates was responsible for the meeting planning and logistics including meeting agenda, meals, travel and facilities. CTC assisted with meeting facilitation and took the meeting notes. CTC also presented a mock-up of a refreshed ENTERPRISE website.
-Athey Creek conducted a half-day project workshop, presented updates for three projects, conducted kick-offs for three projects and facilitated scope development discussions for four projects.

--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) - 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 - Completed.
--Task 3: ITS Asset Criteria – Completed.

-Project 2: Phasing out Legacy ITS Systems/Devices (Nov 2018 - Nov 2019)
--Task 1: Literature Search, Survey and Interviews – Work complete.
--Task 2: Case Studies – Work complete.

Anticipated work next quarter:

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

The next in-person Board Meeting will be held in Milwaukee, WI from March 23-25, 2020. 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 will provide information for a 25-month contract amendment as requested by the Board.

CTC & Associates will continue to update the ENTERPRISE website (http://enterprise.prog.org) with current information. The website will be refreshed with new design and organization if a contract amendment is approved

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

-Project 1: Evolution of ITS in Asset Management (Nov 2018 - Nov 2019)
--Task 4: Present Findings – This task is partially complete with some findings presented. It will be completed with a presentation of the final report.
--Task 5: Draft Report – This task is currently being completed with a draft expected after interviews are complete.
--Task 6: Final Report – A final report will commence after delivery of the draft report. The final report incorporate comments.

-Project 2: Phasing out Legacy ITS Systems/Devices (Nov 2018 - Nov 2019) PROJECT COMPLETE – no work anticipated

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.