

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Iowa 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 # TPF-5(295)	Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2021) Quarter 2 (April 1 – June 30) Quarter 3 (July 1 – September 30) X Quarter 4 (October 1 – December 31)	
Project Title: Midwest Smart Work Zone Deployment Initiative		
Name of Project Manager(s): Dan Sprengeler	Phone Number: 515-239-1823	E-Mail Dan.Sprengeler@dot.iowa.gov
Lead Agency Project ID: Keith Knapp	Other Project ID (i.e., contract #): Addendum 535	Project Start Date: July 1, 2014
Original Project End Date: June 30, 2020	Current Project End Date: December 31, 2021	Number of Extensions: None

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
\$1,425,000 committed	\$1,293,093.21	100% (of extension)

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$2,929.92		100

Project Description:

The Smart Work Zone Deployment Initiative (SWZDI) was initiated in 1999 as a Federal Highway Administration (FHWA) Pooled Fund Study intended to coordinate and promote research among the participating states related to safety and mobility in highway work zones.

The program is an ongoing cooperative effort between State Departments of Transportation, universities, and industry. The studies completed have consisted of evaluations of various work zone related products, various innovative topics, and several synthesis studies. Completed reports and descriptions of ongoing projects can be obtained at the Iowa State University's Institute for Transportation (InTrans) website (www.intrans.iastate.edu/smartwz/) link to the Smart Work Zone Deployment Initiative. InTrans currently operates as the program manager of the pooled fund efforts and completes administrative tasks related to request for ideas and proposals, meetings, project files, quarterly reports, and recommending reimbursement.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**Quarter Ending December 31, 2021 (Overall)**

During this quarter we communicated with principal investigators as needed and resolved typical progress issues if they occurred. The two projects related to this pooled fund account were both essentially finished this quarter. The SWZDI board requested that one of the project be finished early and the other project, at the end of year, was being formatted for posting on the SWZDI website. The project completions are both noted below.

During this quarter SWZDI selected two more projects on the new funding number (this is described in another quarterly report). The progress of the 2020 to 2023 PY projects funded by the SWZDI pooled fund are discussed in the other quarterly report also.

The following is a summary of accomplishments provided by the project principal investigators for the October to December 2021 time period for their individual research projects underway with fund account TPF-5(295).

2019 Program Projects

The following projects were selected for 2019 program year funding.

- Field Testing of Non-Motorized Road User Accommodations for Work Zones, Iowa State University, John Shaw as PI.

Final report and technical transfer summary completed. Both deliverables were posted November 1, 2021.

This work was contracted for 1/1/2019 to 3/31/2020 and was extended to December 31, 2020. It was then extended to March 31, 2021 and extended again to December 31, 2021. The SWZDI board chose to end the project early and asked the principal investigator summarize what had been completed (see previous quarterly reports for more details). The project is 100% complete.

- Investigation of Autonomous/Connected Vehicles in Works Zones, University of Missouri-Columbia, Carlos Sun as PI.

The final report was completed, submitted, and approved. This report was finalized and posted to the SWZDI website on January 3, 2022.

This project was contracted to start on 4/15/2019 and end on 7/31/2020. It was extended to March 31, 2021 and extended again to December 31, 2021. The PI indicated 95 percent complete but it is now posted and 100 percent.

Anticipated work next quarter:

This pooled fund account number will be closed out in the next quarter. No more project work will be completed.

Significant Results:

Both of the projects noted above were completed this quarter, with the last report posted to the SWZDI website on January 3, 2022.

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).

Potential Implementation:

The website for the SWZDI pooled fund is updated on a regular and as needed basis for finished reports. Reports for both the projects noted above have been posted.