

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(545)		Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2025) X Quarter 2 (April 1 – June 30) Quarter 3 (July 1 – September 30) 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 915	Project Start Date: January 1, 2025	
Original Project End Date: December 31, 2025	Current Project End Date:	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
\$325,000	\$19,497	50%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$11,416		3%

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 June 30, 2025 (Overall)**

As part of this project funding number, two PY 2025 research projects are currently under contract and are summarized below. During this quarter, a call for problem statements was released with regard to three topics. These topics included Work zone intrusion assistance, positive protection evaluation, and driveway assistance devices or residential driveway temporary signals. A total of 2, 4, and 1 problem statement(s) were received for these three topics, respectively. The SWZDI board will meet to discuss these problem statements in the next quarter and may release a request for proposal for PY 2026 work. Work also continued during this quarter, on three PY 2024 projects and another additional supplemental project for PY 2024, as part of the old SWZDI project account (See that other quarterly report).

The following is a summary of accomplishments provided by the project principal investigators for the April to June 2025 time period for their individual research projects underway with fund account TPF-5(545).

2025 Program Year Projects

- Mobility and Safety Impacts of Work Zone Lane and Shoulder Widths – Part 2 – University of Wisconsin – Madison, Madhav Chitturi as PI.

This project has been contracted to start on July 1, 2025 and end on January 31, 2027. It does not started until next quarter and is 0% complete.

- Traffic Control for Work Zones in Alternative Intersections – University of Missouri, Henry Brown as PI.

The project kickoff meeting was held on May 2, 2025. Kickoff meeting minutes were prepared and submitted to the TAC. TAC members were asked to share example plans, TA sheets, or deployment photos. The review of existing literature is in progress. In the next quarter, the literature review will continue. In addition, the DOT survey will be developed and distributed to the TAC for review.

This project has been contracted to start on April 1, 2025 and end on September 30, 2026. It is 5% complete.

Anticipated work next quarter: Work will start and/or continue on the two currently contracted projects. We also anticipate reviewing the submitted PY 2026 problem statements and putting out a request for proposals for this pr year.

Significant Results: Continued work on one project and another was contracted for a July 1, 2025 start.

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, with recommended solutions to those problems).

Potential Implementation: