

# 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.*

<b>Transportation Pooled Fund Program Project #</b> TPF-5(545)		<b>Transportation Pooled Fund Program - Report Period:</b> X Quarter 1 (January 1 – March 31, 2025)  Quarter 2 (April 1 – June 30)  Quarter 3 (July 1 – September 30)  Quarter 4 (October 1 – December 31)	
<b>Project Title:</b> Midwest Smart Work Zone Deployment Initiative			
<b>Name of Project Manager(s):</b> Dan Sprengeler	<b>Phone Number:</b> 515-239-1823	<b>E-Mail</b> Dan.Sprengeler@dot.iowa.gov	
<b>Lead Agency Project ID:</b> Keith Knapp	<b>Other Project ID (i.e., contract #):</b> Addendum 915	<b>Project Start Date:</b> January 1, 2025	
<b>Original Project End Date:</b> December 31, 2025	<b>Current Project End Date:</b>	<b>Number of Extensions:</b> 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	\$8,081	25%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$8,081		

**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/](http://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 March 31, 2025 (Overall)**

As part of this project number, during this quarter the SWZDI board agreed to fund two PY 2025 research projects based on the responses to the request for proposals from last quarter. One of these projects has been contracted and the other remains under negotiation. On February 25, 2025 the SWZDI Board also met and discussed potential topics to include in the PY 2026 request for problem statements. A ranking tool for these ideas will be created in the next quarter. Currently, SWZDI is supported by 11 states and all have committed funding to the pooled fund. 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 other quarterly report).

The following is a summary of accomplishments provided by the project principal investigators for the January and March 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.

The contract for this project is currently under negotiation. A 15-month schedule is proposed.

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

This project has been contracted to start on April 1, 2025 and end on September 30, 2026. The first progress report for this project will be next quarter.

**Anticipated work next quarter:** It is hoped the second PY 2025 project will be under contract. We will also be putting out ranking of topics for problem statement request on those in the next quarter. May also advance some cooperative work in specific area with other pooled funds.

**Significant Results:** Continued work on projects and Iowa DOT is working on contracting the new projects selected.

**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:**