

# 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(081)	<b>Transportation Pooled Fund Program - Report Period:</b> <input checked="" type="checkbox"/> Quarter 1 (January 1 – March 31, 2015)  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 189	<b>Project Start Date:</b> 2001 to Present
<b>Original Project End Date:</b> Ongoing	<b>Current Project End Date:</b> June 30, 2015	<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
\$1,917,500	\$1,892,419.58	Ongoing*

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
N/A.	N/A.	Ongoing*

\*TPF-5(081) contracts expire in the winter/spring of 2014/2015 and this pooled fund number is proposed to be closed-out in the late spring of 2015. TPF-5(295) has begun and is funding the new 2014 and 2015 projects.

**Project Description:**

The Midwest Smart Work Zone Deployment Initiative (MwSWZDI) 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, 2015 (Overall)**

During this quarter we communicated with a number of principal investigators. Resolved some progress issues. Posted some final reports, continued with all four program Year 2014 project contracts, and resolved the contracts for three of the four Year 2015 contracts. The progress of the four Year 2014 and 2015 projects (funded under the new TPF account number, TPF – 5(295)) are summarized in that progress report. The progress on the four remaining projects funded through this TPF account number and the administration contract are summarized below.

Administratively, we communicated with Board about the proposals received for Year 2015 and resolved the contracts for three of the four projects selected. Plans were also made for an April 2015 work zone research focus group and Board meeting in St. Joseph, MO. The Board had agreed that the 2014 administrative contract should be extended and additional funds were added for a face-to-face Board meeting in Spring 2015. This action with the administrative contract taken this quarter. The Board also reviewed and agreed to the content of the 2015 administrative contract and this was finalized. The focus group meeting in St. Joseph, MO is being co-sponsored by the regional university transportation center at Iowa State University.

**2013 Program Projects**

- Highway Work Zone Capacity Estimation using Field Data from Kansas State University, Kansas State University with Sunanda Dissanayake as PI.

This project is complete. The final editorial additions of the draft report are being input and posting is expected in April 2015.

- Modeling Merging Behavior at Lane Drops, Iowa State University with Shauna Hallmark as PI.

This project is complete. It has been finalized and posted.

- Intelliroute: A Smart Phone – Based Real Time Work Zone Detour Information System Driven by Crowd-Sourced Data; Yue Liu as PI.

This project is complete. It has been finalized and posted.

**Anticipated work next quarter:**

The one final remaining project report is expected to be posted in April 2015. The work zone research focus and board meeting will be held. Progress will also be made to reconciling and closing this TPF project number once all charges have been completed. We will continue to work with the principal investigators of Program Year 2014 and 2015 projects. It is possible that one of the Program 2014 projects may be completed.

**Significant Results:**

Two project reports were posted. Program Year 2014 project continued and three of four Program Year 2015 projects were contracted (two of these project were started).

**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).**

Currently there are no problems to report with the administrative contract. Any issues that have come up with the individual projects that may impact schedule or budget are resolved on a case by case basis.

**Potential Implementation:**

Two project reports were completed this quarter and the final report should be posed in April 2015. Those that download the reports and/or hear the PI present the material may potentially use the information to change their decision-making.