

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.

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|---|---|---|
| Transportation Pooled Fund Program Project # TPF-5(438) | Transportation Pooled Fund Program - Report Period: X Quarter 1 (January 1 – March 31, 2020) 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 733 | Project Start Date: January 1, 2020 |
| Original Project End Date: December 31, 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 |
|----------------------|--------------------------------|--------------------------------------|
| \$250,000 | \$0 | 0 |
| | | |

Quarterly Project Statistics:

| Total Project Expenses and Percentage This Quarter | Total Amount of Funds Expended This Quarter | Total Percentage of Time Used to Date |
|--|---|---------------------------------------|
| \$0 | | |

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/) 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, 2020 (Overall)**

During this quarter, the proposals for Program Year 2020 continued to be reviewed and we worked with the states to select 3 projects for contracting. The three projects have not yet been contracted and, therefore, have not yet been started. This administrative contract for 2020 was also proposed and accepted. The 2020 program work plan was also created and the SWZDI website updated.

The following 2020 PY contracts are under development. Start and end dates may change from those below.

- Work Zone Activity Data Logging – Phase II, Iowa State University, John Shaw as PI, Proposed: May 1, 2020 to April 30, 2022.
- Using Smart Work Zone Trailer Data to Evaluate and Predict Lane Closure Impacts with a Consideration of Work Intensity, The University of Texas-Austin, Natalia Ruiz-Juri as PI, Proposed: April 1, 2020 to March 31, 2021
- Temporary Traffic Control Devices at Driveways within a One-Lane, Two-Way Section, Tim Gates as PI, Proposed April 1, 2020 to March 31, 2021.

Anticipated work next quarter:

The contracts for the 2020 PY will be finalized and work will begin. A date for the advertisement and selection of problem statements will be determine and completed. A meeting of state representatives may occur for a discussion about approach.

Significant Results:

This administrative contract has just started so there are not yet any significant results.

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).

It is not expected that the COVID 19 shut downs will have an impact on the administration of the SWZDI pooled fund but it may impact the progress of the projects.

Potential Implementation:

This administrative contract has just started but potential implementation includes project reports when completed. The website for the SWZDI pooled fund is updated on a regular and on an as needed basis for finished reports.