

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Iowa Department of Transportation

### 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 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(290)		<b>Transportation Pooled Fund Program - Report Period:</b> Quarter 1 (January 1 – March 31, 2021) Quarter 2 (April 1 – June 30, 2021) Quarter 3 (July 1 – September 30, 2021) X Quarter 4 (October 4 – December 31, 2021)	
<b>Project Title:</b> Aurora Program			
<b>Project Manager:</b> Tina Greenfield		<b>Phone:</b> 515-233-7746	<b>E-mail:</b> tina.greenfield@dot.iowa.gov
<b>Project Investigator:</b> Zach Hans		<b>Phone:</b> 515-294-8103	<b>E-mail:</b> zhans@iastate.edu
<b>Lead Agency Project ID:</b> RT 0034	<b>Other Project ID (i.e., contract #):</b> Addendum 156	<b>Project Start Date:</b> January 1, 2013	
<b>Original Project End Date:</b> May 31, 2019	<b>Current Project End Date:</b> – July 31, 2022	<b>Number of Extensions:</b>	

Project schedule status:

X On schedule       On revised schedule       Ahead of schedule       Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Total Percentage of Work Completed
\$2,250,000	\$2,146,806.81	

**Quarterly** Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$0	N/A	

## **Project Description:**

The Aurora Program is a consortium of public agencies focused on collaborative research, evaluation, and deployment of technologies for detailed road weather monitoring and forecasting. Members seek to implement advanced road weather information systems (RWIS) that fully integrate state-of-the-art roadway and weather forecasting technologies with coordinated, multi-agency weather monitoring infrastructures; ultimately lessening adverse impacts of inclement weather.

**Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.). These efforts are identified below.**

### Program Administrative Activities:

- Provided program management in terms of projects and program budgets.
- Updated website content.

### Facilitate Meetings and Conference Calls:

- Project-related meetings are noted in "Project-Specific Activities", including:
  - WSI Working Group Quarterly Meeting.

### Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- N/A

### Project-Specific Activities:

- Distributed quarterly reports and invoices for project team approval.
- Upon approval, submitted invoices to the Iowa DOT for payment.
- 2020-01 Atmospheric Rivers
  - Assisted in addressing invoice payment questions.
- 2020-03 "Ongoing Issues with Winter Weather Severity Indices"
  - Quarterly working group meeting was held December 8, 2021.
  - Provided update on upcoming (spring 2022) Aurora request for ideas.
- 2018-02 "Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems"
  - Coordinated with states, including California, regarding non-sensor installation status and data acquisition.
- 2018-01b "RWIS LCCA Tool"
  - Addressed potential invoicing issues or discrepancies.
- 2011-02 "RWIS Training Tool"
  - Continued addressing request to change the domain name, due to ITERIS having been acquired by DTN.
  - Continued work associated with assuming control and management of the tool, including monthly billing.

## **Anticipated work next quarter:**

### Program Administrative Activities:

- Manage budget.

### Facilitate Meetings and Conference Calls:

- Facilitate project correspondence, meetings and status reports regarding active 290 projects.

### Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

TPF Program Standard Quarterly Reporting Format

- N/A

Project-Specific Activities:

- 2018-02 “Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems”
  - Continue coordination with states regarding non-sensor installation status and data acquisition.
- Facilitate project correspondence, meetings and status reports regarding active 290 projects.

**Significant Results:**

- 2020-03 “Ongoing Issues with Winter Weather Severity Indices”: Quarterly meeting.
- 2018-02 “Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems”: Data acquisition.
- 2011-02 “RWIS Training Tool”: Continued support.

**Circumstance affecting project or budget:** A no cost extension was necessary to support 2018-02 “Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems” due to sensor installation delays.