

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.

Transportation Pooled Fund Program Project # TPF-5(290)		Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2021) x Quarter 2 (April 1 – June 30, 2021) Quarter 3 (July 1 – September 30, 2021) Quarter 4 (October 4 – December 31, 2021)	
Project Title: Aurora Program			
Project Manager: Tina Greenfield		Phone: 515-233-7746	E-mail: tina.greenfield@dot.iowa.gov
Project Investigator: Zach Hans		Phone: 515-294-8103	E-mail: zhans@iastate.edu
Lead Agency Project ID: RT 0034	Other Project ID (i.e., contract #): Addendum 156	Project Start Date: January 1, 2013	
Original Project End Date: May 31, 2019	Current Project End Date: – July 31, 2022	Number of Extensions:	

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	\$2,110,776.25	

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$201,130.15	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:
 - Non-invasive sensor conference call with California.
 - 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.
- 2020-03 “Ongoing Issues with Winter Weather Severity Indices”
 - Received final report. Based on content, this report will be available to Aurora Board members only.
 - Attended quarterly working group meeting.
- 2020-01 “Impacts of Atmospheric Rivers in the Transportation Sector”
 - Had final project updated during spring meeting.
 - Received final report.
 - Solicited project team input on final report.
 - Shared final report with Publications for final editing and tech transfer preparation.
 - Facilitated researcher and Publications interaction regarding final report and tech transfer content.
 - Posted final report on the Aurora website.
- 2019-01 Optimal RWIS Sensor Density and Location – Phase 3
 - Investigated possible invoicing issues.
 - Had final project updated during spring meeting.
 - Received final report.
 - Solicited project team input on final report.
 - Shared final report with Publications for final editing and tech transfer preparation.
- 2018-02 “Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems”
 - Coordinated with states regarding non-sensor installation status and data acquisition.
 - Coordinated with California regarding data acquisition.
 - Received data reports from Michigan.
 - Addressed questions from Minnesota regarding equipment, cables and mounting brackets.
 - Addressed confirmation of inventory request.
- 2018-01b “RWIS LCCA Tool”

TPF Program Standard Quarterly Reporting Format

- Distributed link to the tool and demonstration video to the Board.
- 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 (<http://aurorabase.iteris.com/login/?destination=/>), 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:

- 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.
- 2019-01 Optimal RWIS Sensor Density and Location – Phase 3
 - Complete editing on final report and tech transfer document.
 - Publish final report and tech transfer document.
- 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.
- 2018-01b “RWIS LCCA Tool” final tool and demonstration video distribution.
- 2011-02 “RWIS Training Tool” continued support.
- 2019-01 “Optimal RWIS Sensor Density and Location – Phase 3” final presentation and draft final report.

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.