

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, 2020) Quarter 2 (April 1 – June 30, 2020) X Quarter 3 (July 1 – September 30, 2020) Quarter 4 (October 1 – December 31, 2020)	
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: – May 31, 2021	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
\$2,150,000	\$1,002,080.02	

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$164,798.31	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"

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

- N/A

Project-Specific Activities:

- 2020-03 "Ongoing Issues with Winter Weather Severity Indices"
 - Kick off meeting was held on July 8, 2020.
- 2020-01 "Impacts of Atmospheric Rivers in the Transportation Sector"
 - A project update meeting was held on September 3, 2020.
 - The presentation from the aforementioned meeting was shared with the project team for distribution to potentially interested partners, noting that the results are preliminary.
 - A request was received from SICOP for a "SICOP Talks Winter Ops" presentation from the project champion. The presentation is pending completion of the project.
 - Based on project team feedback, a follow-up meeting was held September 18, 2020 to discuss a possible scope for a cost extension and/or future project. A proposed scope and budget is anticipated early next quarter.
- 2014-01 "Demonstration and Inter-comparison of Seasonal Weight Restriction Models"
 - Coordinated with research team regarding desired final presentations, e.g. individual presentations to three study agencies as well as a presentation to the Board as a whole.
 - Distributed draft final report "Demonstration and Inter-comparison of Seasonal Weight Restriction Models" to project team members.
- 2019-01 Optimal RWIS Sensor Density and Location – Phase 3
- 2018-02 "Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems"
 - Coordinated with North Dakota DOT regarding a State of Iowa FY20 Audit Capital Assets request.
 - Addressed Washington DOT questions about the project.
 - Coordinated getting Washington DOT a wiring diagram for their Boschung sensor.
 - Provided general information about project scope and tasks to Wisconsin DOT.
 - Verified that no sensors had been traded among states.
- 2018-01b "RWIS LCCA Tool"
 - Kick off meeting was held on August 12, 2020.
 - An update meeting is scheduled for December 2, 2020.
- 2011-02 "RWIS Training Tool"

- Continued work associated with assuming control and management of the tool (<http://aurorabase.iteris.com/login/?destination=/>), including monthly billing.
- At the request of Arizona, provided documentation regarding access and use of the tool.
- 2016-03 “RWIS Sensor Density and Location, Phase 2”
 - Reviewed TRB paper and provided feedback.
 - Coordinated with Board regarding approval for submission.
- Tracked project status and prepared a summary for recently completed, active, and all prospective new projects.
- Distributed quarterly reports and invoices for project team approval.

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:

- 2018-01b “RWIS LCCA Tool”.
 - Assist with data acquisition.
 - Hold project meeting on December 2, 2020.
- 2014-01 “Demonstration and Inter-comparison of Seasonal Weight Restriction Models”
 - Facilitate final project presentation on November 12, 2020.
 - Edit and publish final report.
- 2018-02 “Invasive and Non-Invasive Sensing: Assessing Agreement between Measurement Systems”
 - Coordinate with states regarding non-sensor status and data acquisition.
- Facilitate project correspondence, meetings and status reports regarding active 290 projects.

Significant Results:

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Circumstance affecting project or budget: