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 (435)	Transportation Pooled Fund Program - Report Period: XQuarter 1 (January 1 – March 31, 2024) Quarter 2 (April 1 – June 30, 2024) Quarter 3 (July 1 – September 30, 2024) Quarter 4 (October 4 – December 31, 2024)	
Project Title: Aurora Program – Addendum 731		
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@iastaste.edu
Lead Agency Project ID:	**Other Project ID (i.e., contract #):** **Addendum 731**	**Project Start Date:** January 1, 2020
Original Project End Date: December 31, 2021	**Current Project End Date:** **12/31/2026**	**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
$2,425,000	$2,035,371	

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
$181,651	N/A	

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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:
Reviewed financial details.

Facilitate Meetings and Conference Calls:

Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:

Project-Specific Activities:
Addressed project invoices.

Reviewed and approved invoices and submitted to the Iowa DOT for payment.

Tracked project status and prepared a summary for recently completed and active projects.

Distributed reports to project teams and requested reports from researchers if/when not provided.

Current active projects include:

2021-05 Optimal RWIS Sensor Density and Location Ph IV
- Coordinated with Iowa DOT regarding invoices.

2022-10 Automating Variable Speed Limits Using Weather, Traffic, and Friction Data [NCAR, WTI, Rutgers]

2023-02 An Intelligent Human-Centric Communication System for Adverse Weather and Road Conditions [University of Iowa]
- Coordinated with Iowa DOT regarding contracting agency, and PI move to Tulane.

2023-04 Standardized Framework for Winter Weather Road Condition Indices
- Distributed Task 3 and Phase 1 draft reports with the project team.
- Shared Task 3 and Phase 1 draft reports project team feedback with the research team.
- Distributed research team updated Task 3 with the project team.
- Shared Task 3 project team feedback with the research team.

2024-01 Roadway Friction Forecasting using Stationary and Mobile Friction Data
- Shared quarterly report template with research team.

Anticipated work next quarter:

Program Administrative Activities:
Manage budget.

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<u>Facilitate Meetings and Conference Calls:</u>
Schedule and host project meetings for existing projects.

<u>Processing Travel Requests, Travel Reimbursements, and Meeting Expenses:</u>

<u>Project-Specific Activities:</u>

Track project status and timelines.

Request quarterly reports from research teams.

Distribute project materials/updates to project teams.

Maintain list of project champions and team members.

For all current projects:

- Facilitate project activities as needed.
- Continue to receive and distribute project updates.
- Coordinate updates, if necessary.
- Review invoices.
- Edit and publish pertinent final reports and t2.

2022-10 Automating Variable Speed Limits Using Weather, Traffic, and Friction Data [NCAR, WTI, Rutgers]

- Track project progress.
- Hold project update meeting as necessary

2023-02 An Intelligent Human-Centric Communication System for Adverse Weather and Road Conditions [University of Iowa]

- Track project progress.
- Hold project update meeting as necessary.

2023-04 Standardized Framework for Winter Weather Road Condition Indices [Iowa State University]

- Request no cost extension.
- Track project progress.
- Continue to coordinate between research team and Aurora project team regarding project direction.
- Hold project update meeting as necessary.

2024-01 Roadway Friction Forecasting using Stationary and Mobile Friction Data [NCAR]

- Track project progress.
- Hold project update meeting as necessary.

Significant Results:

Project management and support.

Circumstance affecting project or budget:

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