

Mobile Air Quality Observation System

[Edit Request](#)

Requester Information

Legislator: Romero, Angela

Creation Date: 2024-01-26

Submission Date: 2024-01-26

Section 1: Request Details

Description:

This funding request will support the maintenance of the mobile (TRAX and eBus mounted) air quality observation system. This project will encompass the entire UTA service area. Analysis of the data and report generation will facilitate conveying this valuable information in real time to stakeholders and the public.

Legislative designee contact information:

- Name: Daniel Mendoza
 - Organization: University of Utah
 - Position: Professor
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Section 2: Funding Information

How will the appropriation be used?

	One-time	Ongoing
Personnel Services	2024: \$0.00 2025: \$222,700.00	\$0.00
In-State Travel	2024: \$0.00 2025: \$16,300.00	\$0.00
Out-of-state Travel	2024: \$0.00 2025: \$0.00	\$0.00
Supplies and Equipment	2024: \$0.00 2025: \$53,700.00	\$0.00
Technology Purchases	2024: \$0.00 2025: \$10,700.00	\$0.00
Infrastructure/Capital Investments	2024: \$0.00 2025: \$0.00	\$0.00
Other Charges/Pass Thru	2024: \$0.00 2025: \$46,600.00	\$0.00
Expenditure Total		
One-time 2024	One-time 2025	Ongoing 2025
\$0.00	\$350,000.00	\$0.00

Funding Sources:

General Fund

- Amount Requested 2024 (One-time) \$0.00
- Amount Requested 2025 (One-time) \$350,000.00
- Amount Requested 2025 (Ongoing) \$0.00

Revenue Total

One-time 2024
\$0.00

One-time 2025
\$350,000.00

Ongoing 2025
\$0.00

Should unused funding be returned to the state at the end of the fiscal year?

No

Is this project scalable if the Legislature does not fund the full requested amount?

No

Section 3: Agency Information

Subjects:

Infrastructure and Mobility
Land and Environment

Agency:

480 / Environmental Quality

Type of entity to receive pass-through funding

- State Government
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Section 4: Performance Outcome Measurement

Who would benefit from this request (who is the target audience)?

The primary target audience is the general public as they will be able to quickly and accurately estimate potential air quality and heat health risks. Public health organizations will partner with schools to share real-time information for initiatives such as recess guidance. Stakeholders and community leaders will be able to easily identify areas of concern as they will have the information readily available.

What is this project or program intended to accomplish?

This project will measure air quality and temperature across the Wasatch Front using sensors mounted on TRAX and electric buses. Using this mobile platform, large areas can be studied on a repeatable basis to

identify areas of concern and pollution hot spots. The interface and data will be publicly accessible so stakeholders and organizations will be able to provide information to communities.

How will the Legislature know whether the project or program achieved its intended purpose?

The project will have three measurable goals. The first is to ensure continuous and consistent uptime of all mobile units. The second is the development of an air quality dashboard displaying air quality in real-time for communities serviced by the TRAX and electric buses. The third goal includes the generation of scientific manuscripts as well as annual reports demonstrating developments.

Section 5: Other Supporting Documents

Intent Language

Previous State Funding