



Clarity Showcase

March 25th, 2026

Welcome!



David Lu
Co-Founder & CEO



Meiling Gao, PhD
Co-Founder & COO



Paolo Micalizzi
Co-Founder & CTO



Aubrey Burgess
Projects Team Lead

Sensing-as-a-ServiceSM



Air Monitoring Equipment

Measures all key air pollutants

- Quick and easy installation
- Solar-powered, always online
- Modular design for expandability
- Low-maintenance with free warranty



Clarity Cloud & Software

Cloud-based data analysis

- Natively-integrated IoT dashboard
- Secure data pipeline & storage
- Powerful APIs, analytics and visualization



Air Quality Expert Team

Scalable project support

- Highly qualified air quality experts
- Accurate and reliable data through Remote Calibration
- Responsive project management enabled by modern software stack

Introduced at the
last Showcase

Multi-Gas Module



Comprehensive gas monitoring

- Simultaneous measurement of NO_x, O₃, and CO
- Capture multiple key pollutants with a single device

Low-maintenance

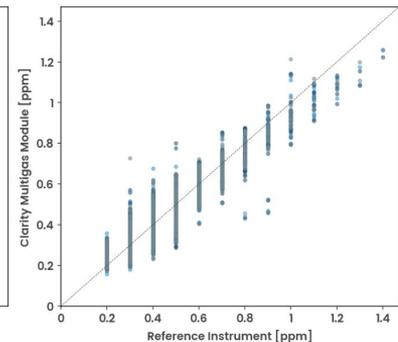
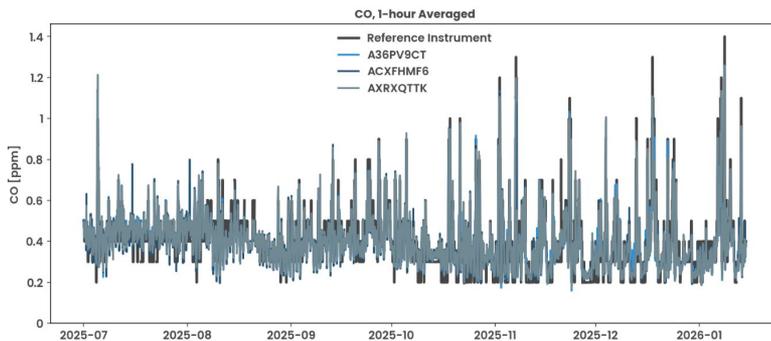
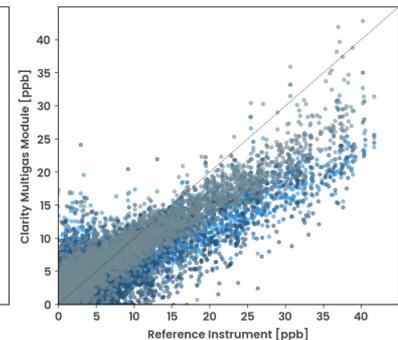
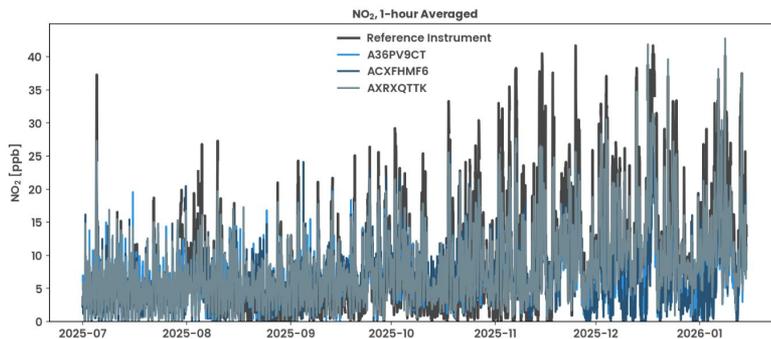
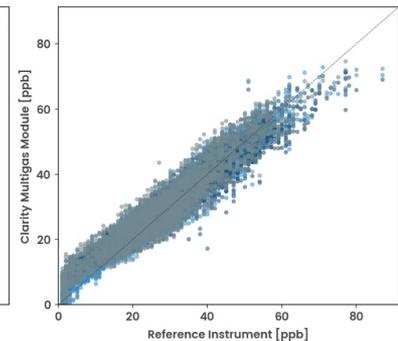
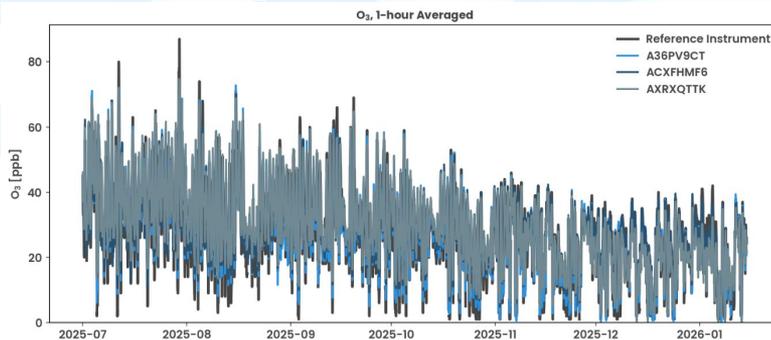
- Remote diagnostics and alerts with Clarity Dashboard
- Modular design for quick servicing & minimal downtime

Deploy anywhere

- Operates with power provided by Node-S solar panel
- Rugged enclosure designed to withstand harsh weather and temperature swings

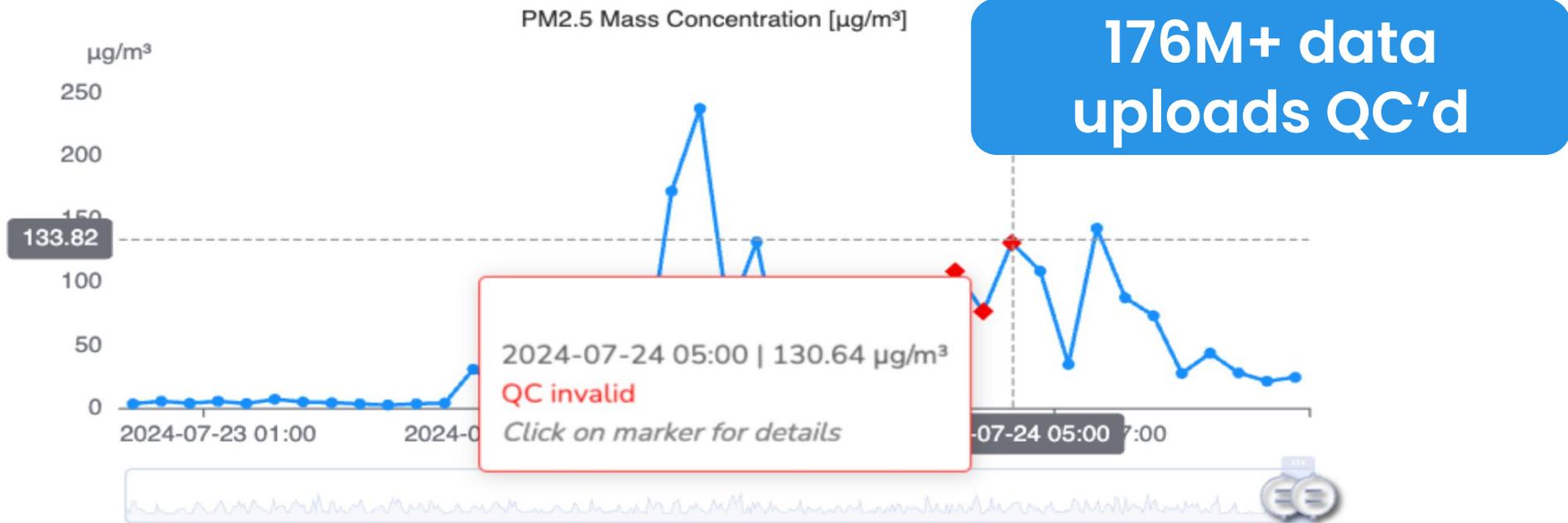
Introduced at the
last Showcase

Multi-Gas Module



Introduced at the last Showcase

Automated QC

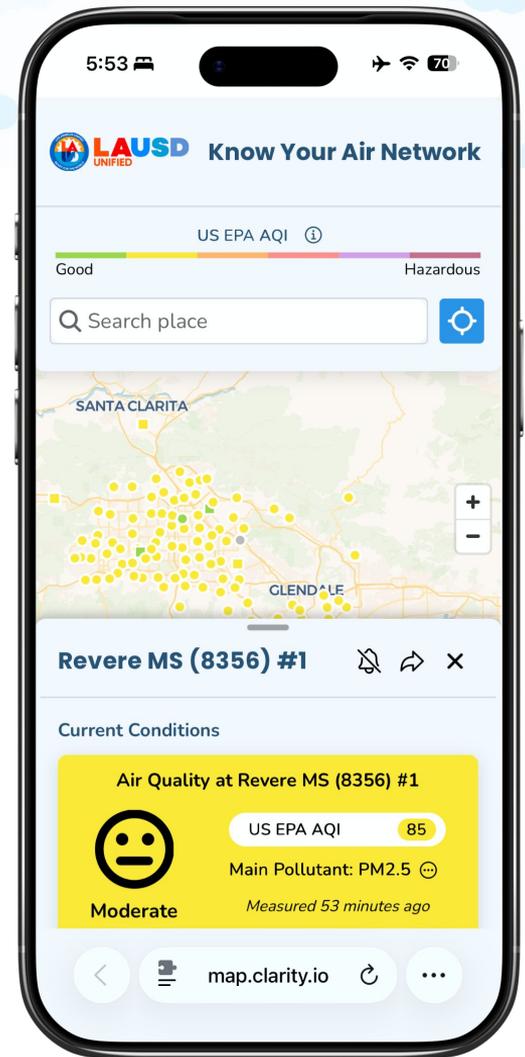


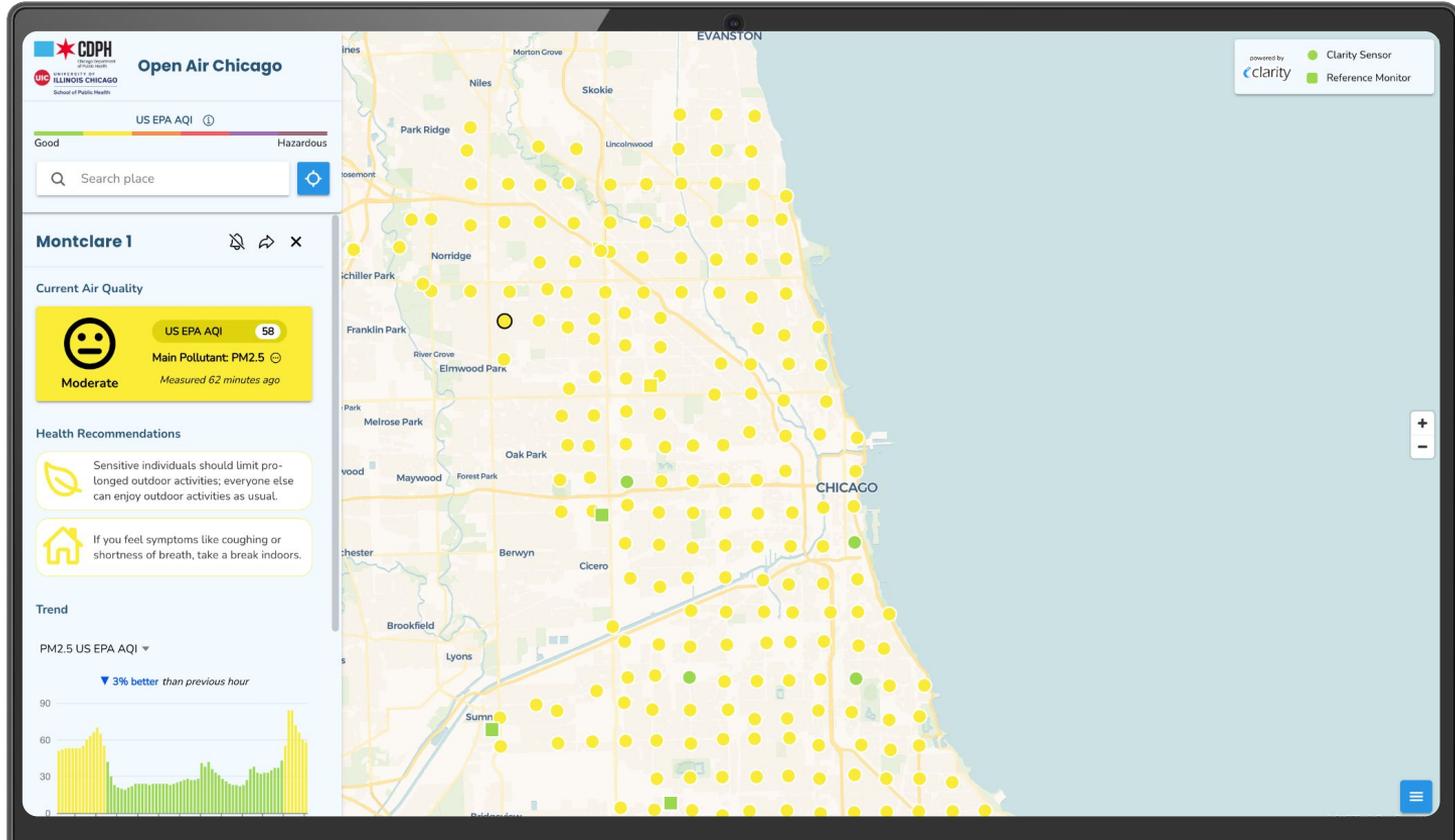
Introduced at the
last Showcase

**New and improved OpenMap
public data sharing platform**

250K+ Sessions

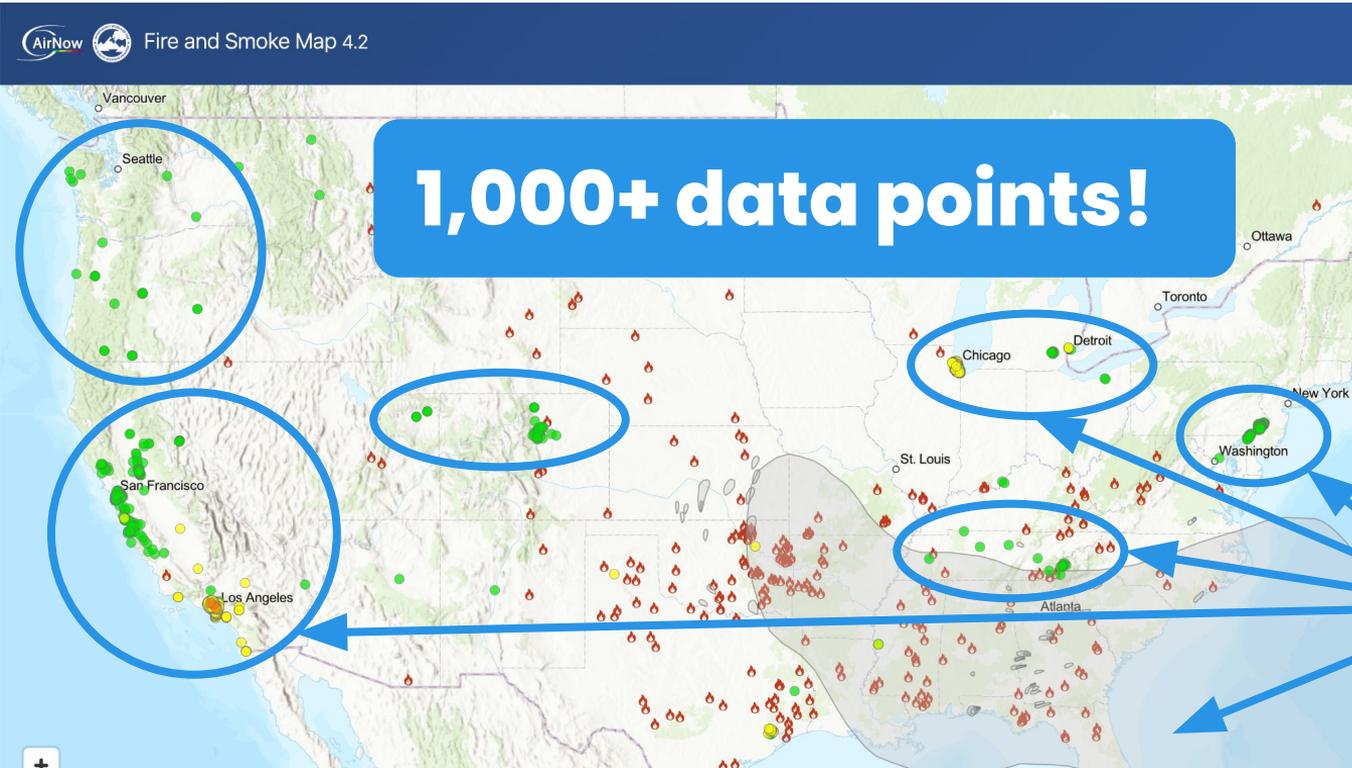
150K+ Unique Users



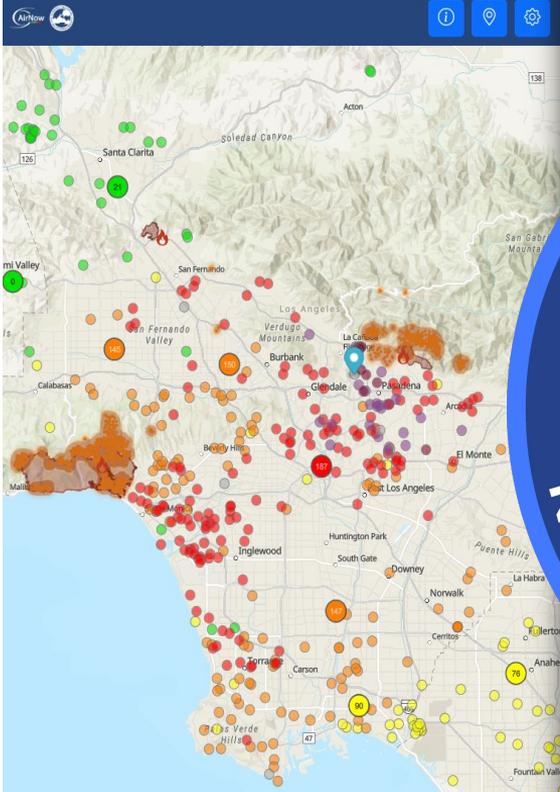


2025 Impact Highlights

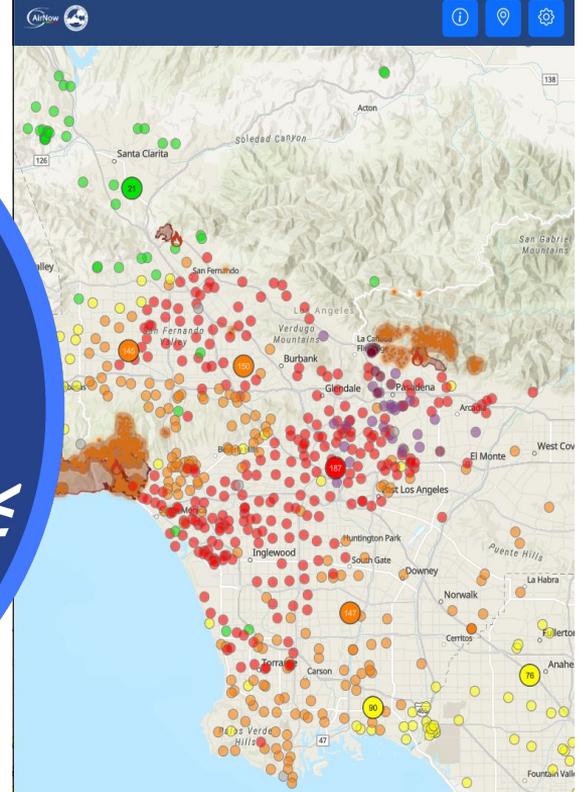
Added to Fire & Smoke Map



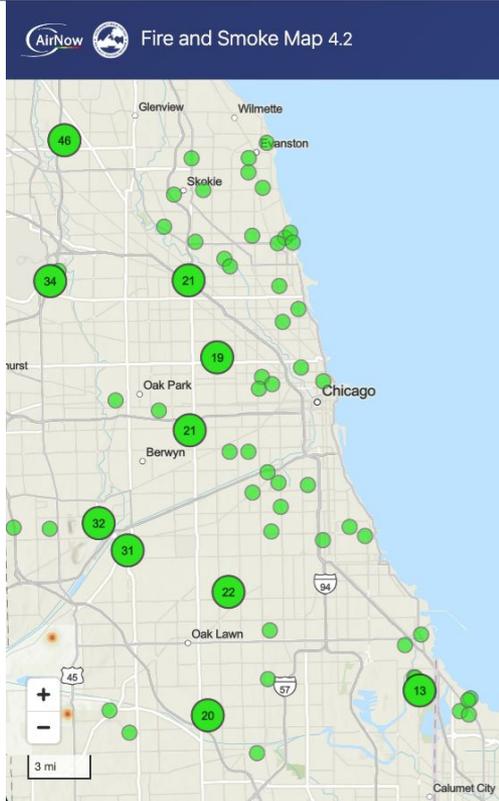
Without Clarity



With Clarity



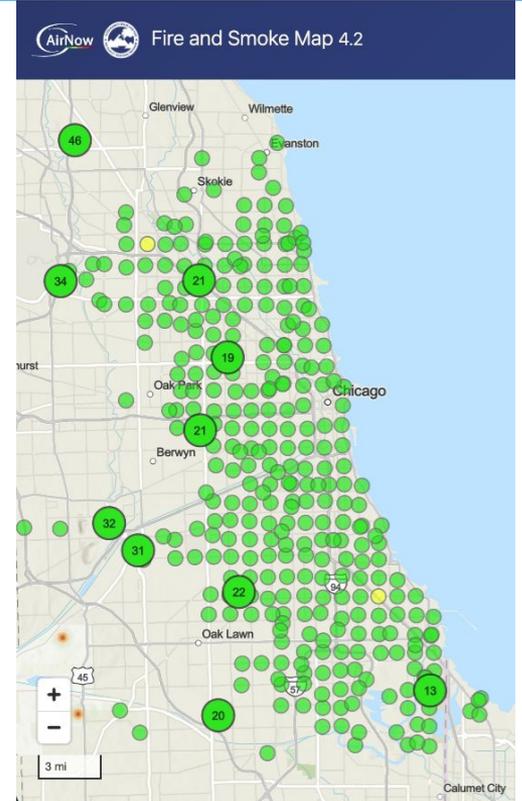
Without Clarity



Open Air Chicago



With Clarity



Guiding principles for Clarity products

1

**Answer more
questions**

2

**Trust
your data**

3

**Accelerate your
impact**

Guiding principles for Clarity products

1

**Answer more
questions**

2

**Trust
your data**

3

**Accelerate your
impact**



Why did we develop the Dust Module?

Customer Interest & Use Cases

| Pollutant | Votes |
|---------------|-------|
| Enhanced PM10 | 152 |
| Ultrafine PM | 138 |
| Speciated VOC | 109 |
| CO | 107 |
| CO2 | 93 |

Limitations of LCS for PM₁₀

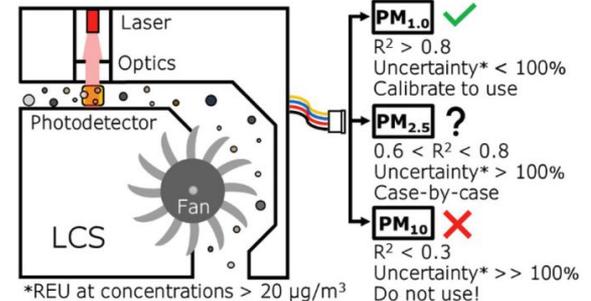
Size-Resolved Field Performance of Low-Cost Sensors for Particulate Matter Air Pollution

Emilio Molina Rueda [†], Ellison Carter [‡], Christian L'Orange [†], Casey Quinn [†], John Volckens ^{†,*}

► Author information ► Article notes ► Copyright and License information

PMCID: PMC10018765 PMID: 36938150

Abstract

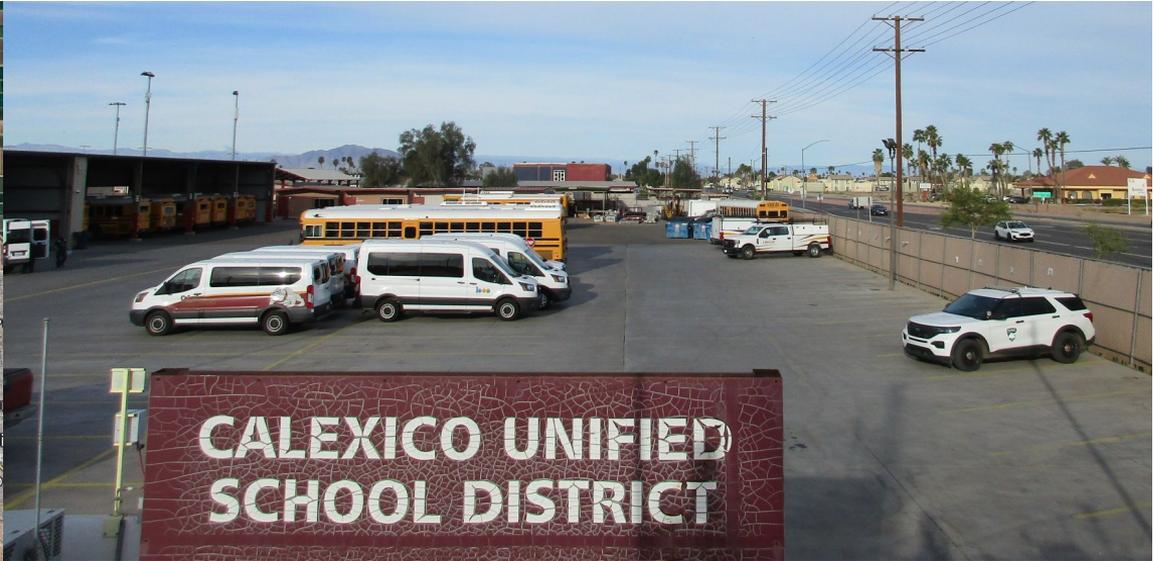
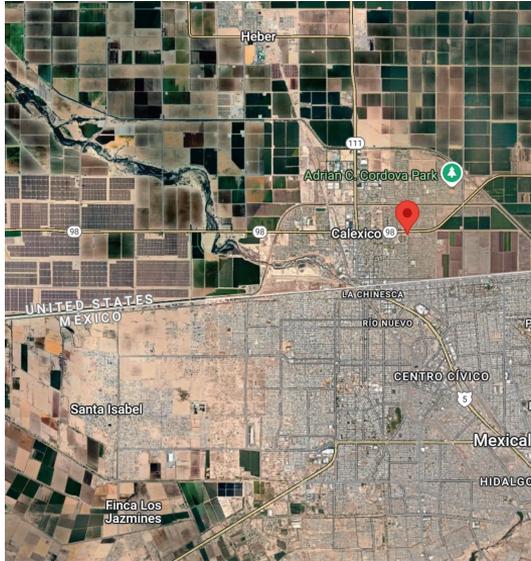


Collocation testing

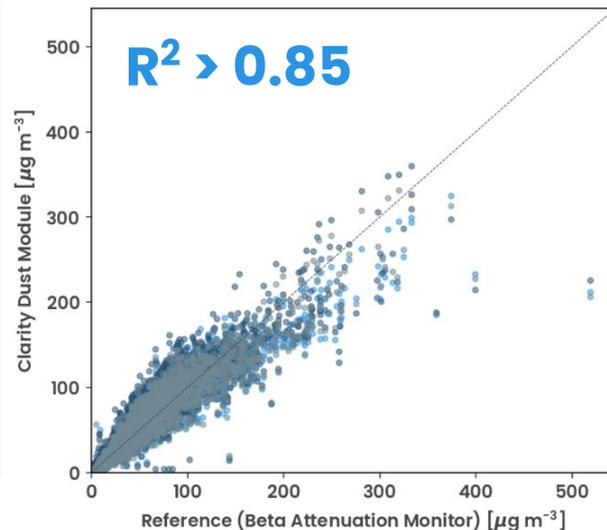
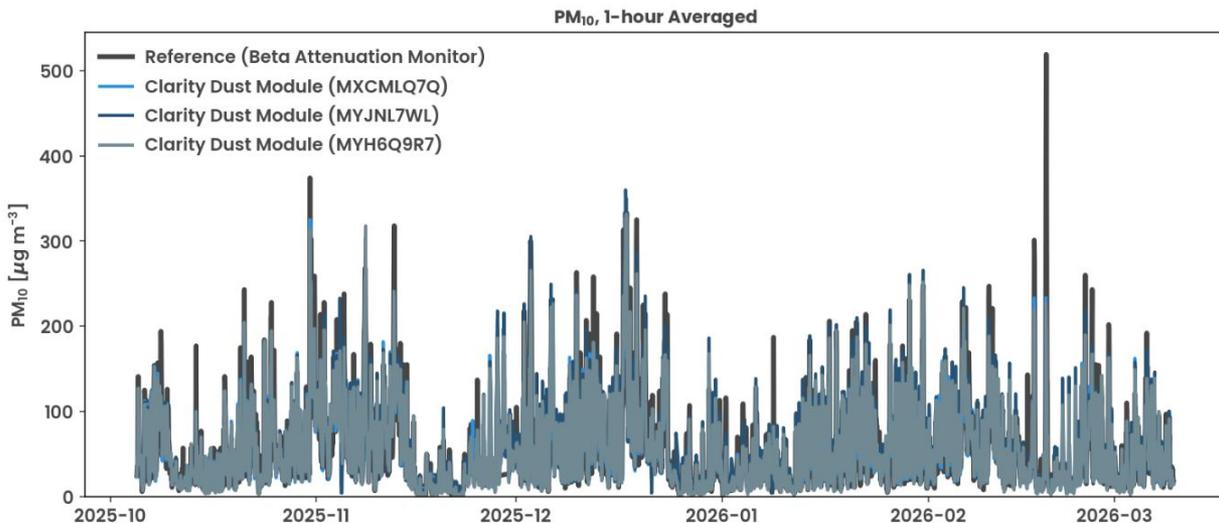
1. Calexico, CA
2. Sefton, UK
3. El Paso, TX
4. King City, CA



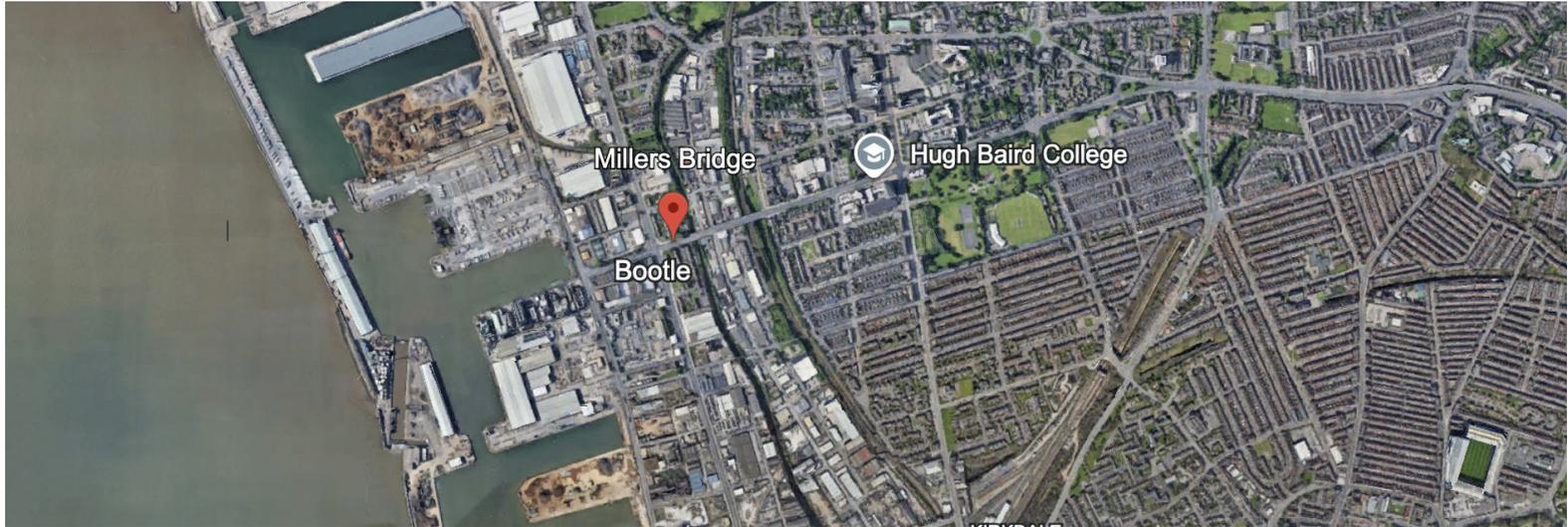
Preliminary performance data: Calexico, California



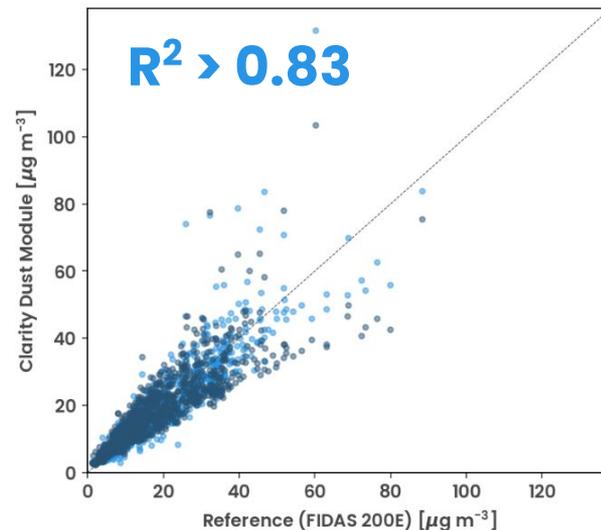
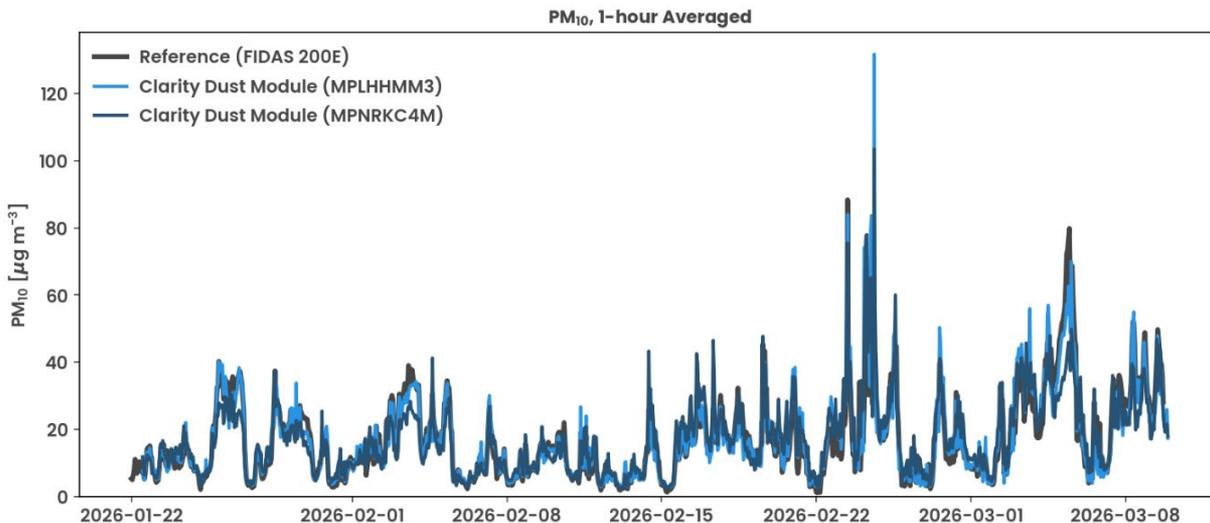
Preliminary performance data: Calexico, California



Preliminary performance data: Sefton, United Kingdom



Preliminary performance data: Sefton, United Kingdom



Preliminary performance data: El Paso, Texas



El Paso Hasn't Seen This Many Dust Storms Since the Dust Bowl

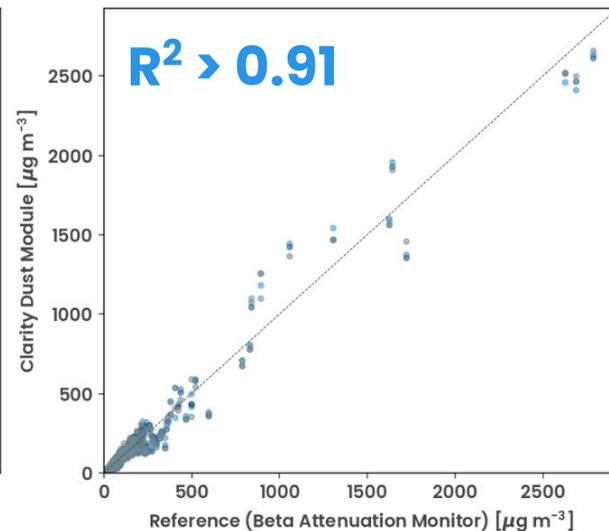
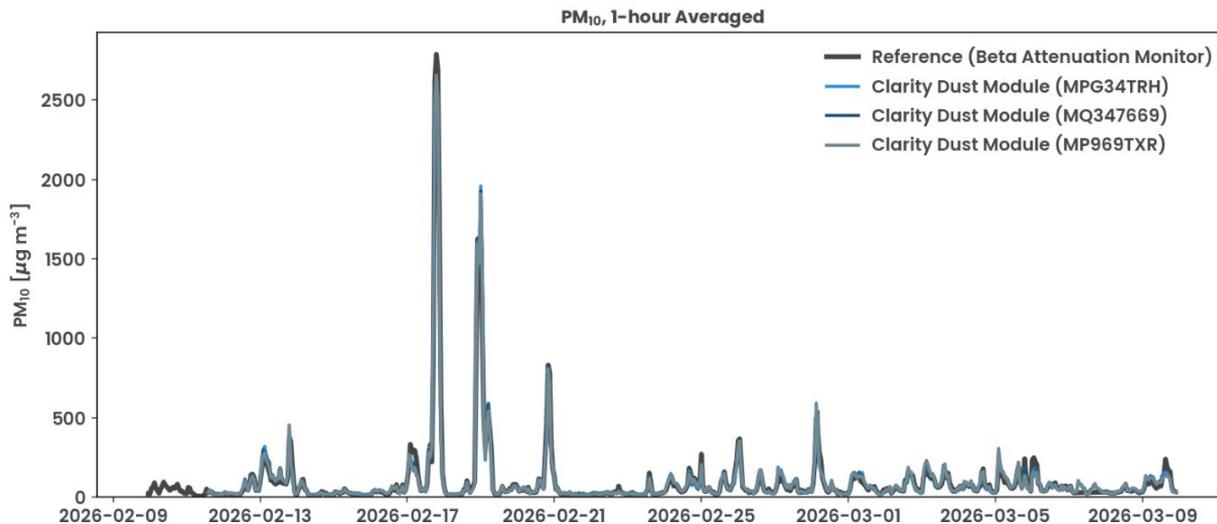
Scientists say drought and climate change are driving the severe dust storms pummeling the border region of Chihuahua, New Mexico and Texas.



By Martha Pskowski X
May 21, 2025



Preliminary performance data: El Paso, Texas



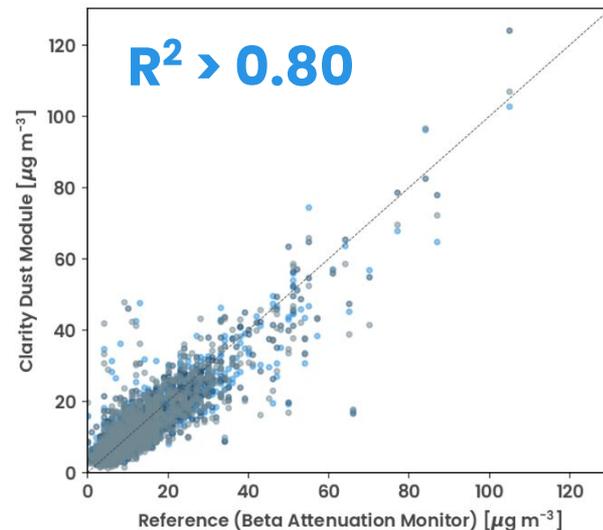
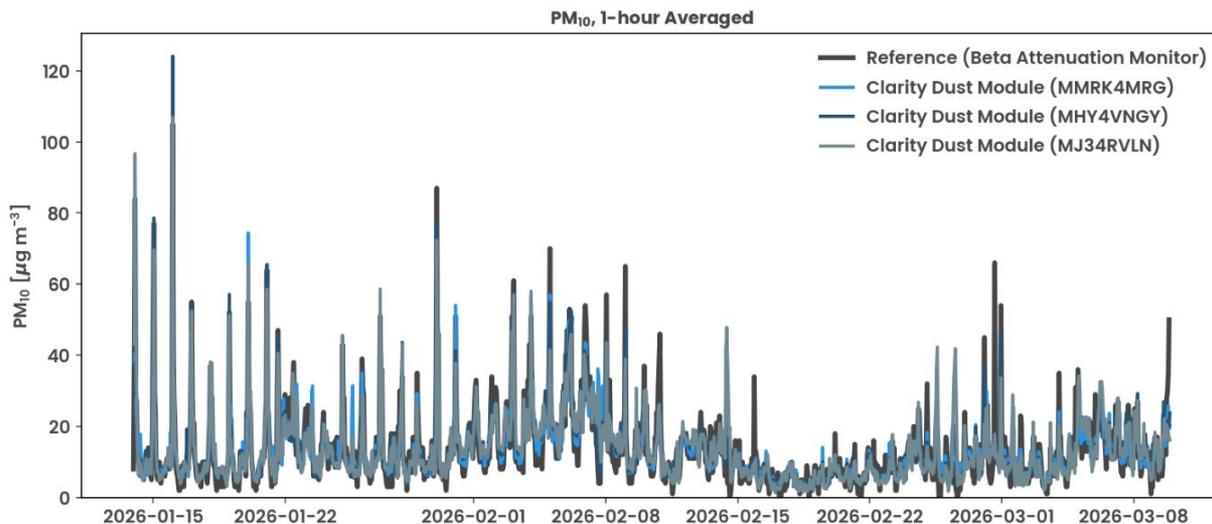
Heated inlet

Preliminary performance data: King City, California



Heated inlet

Preliminary performance data: King City, California



Question: Are dust/ash from wildfire recovery efforts impacting LAUSD school sites?



PACIFIC PALISADES

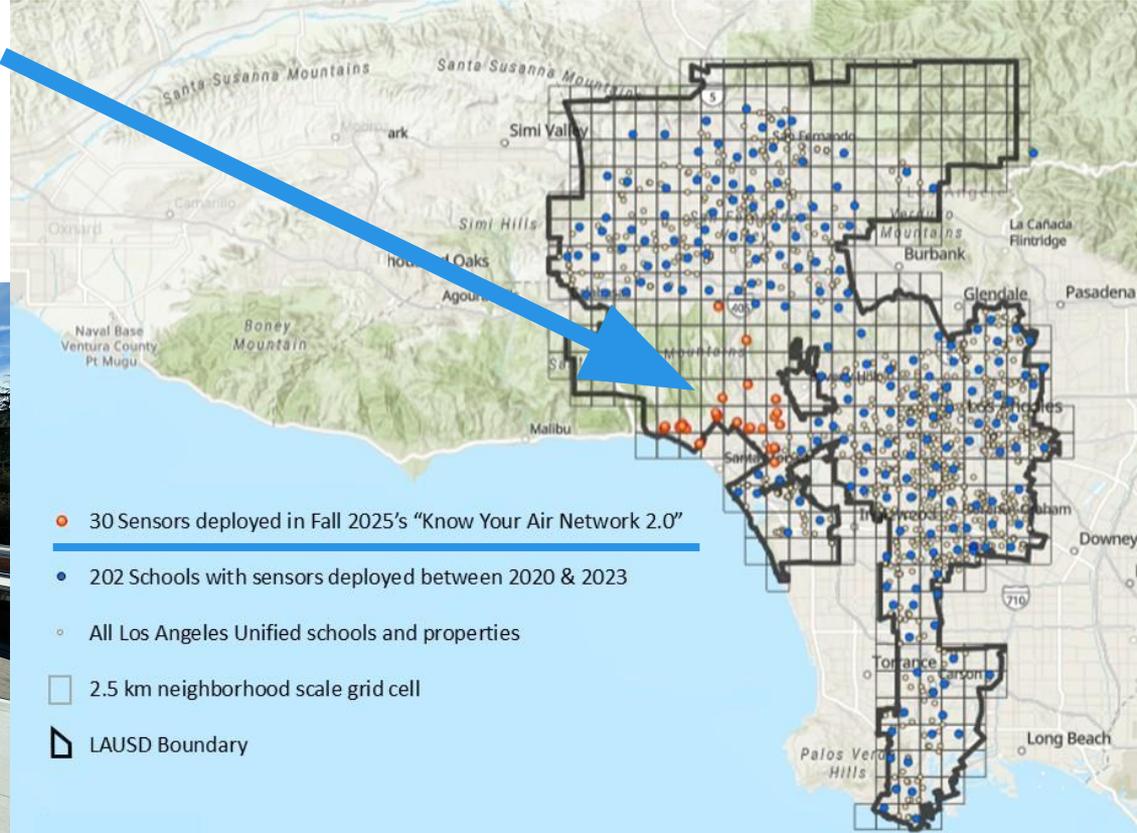
WILDFIRE RECOVERY

100 DAYS SINCE PALISADES FIRE, REBUILDING UNDERWAY

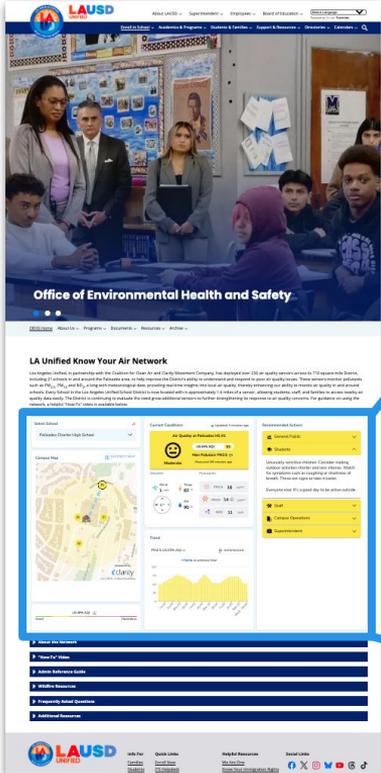


LAUSD Dust Pilot

30 PM₁₀ sites



LAUSD OpenMap Plus Implementation



Select School ↗

Canyon Charter Elementary ▼

Campus Map DISTRICT MAP

powered by clarity

Good US EPA AQI 63 Hazardous

Current Conditions Updated 1 minute ago

Air Quality at Canyon ES (2795) #2

☹️ **US EPA AQI 63**

Moderate Main Pollutant: PM2.5

Measured 15 minutes ago

Weather Wind 1 mph Temp. 62°F RH 92%

Pollutants

- PM2.5 15 µg/m³
- PM10 16 µg/m³
- NO2 8 ppb

Recommended Actions

- 👤 General Public ▼
- 🎓 Students ▲

Unusually sensitive children: Consider making outdoor activities shorter and less intense. Watch for symptoms such as coughing or shortness of breath. These are signs to take it easier.

Everyone else: It's a good day to be active outside.

- 👤 Staff ▼
- 🏫 Campus Operations ▼
- 👤 Superintendent ▼

Trend

PM2.5 US EPA AQI DOWNLOAD

▲ 2% worse than previous hour

90
60
30
0

20:00 Mar 23 08:00 14:00 20:00 Mar 24 08:00 14:00 Mar 25 08:00 14:00

Dust Module

Near-reference coarse mode PM₁₀ detection

Measurement Parameters

- Particulate Matter (PM₁₀)

Specifications

- Heated inlet
- Range: 0-10,000 µg/m³
- Resolution: 1 µg/m³
- Optionally solar-powered



Two PM₁₀ measurement options

Available now!



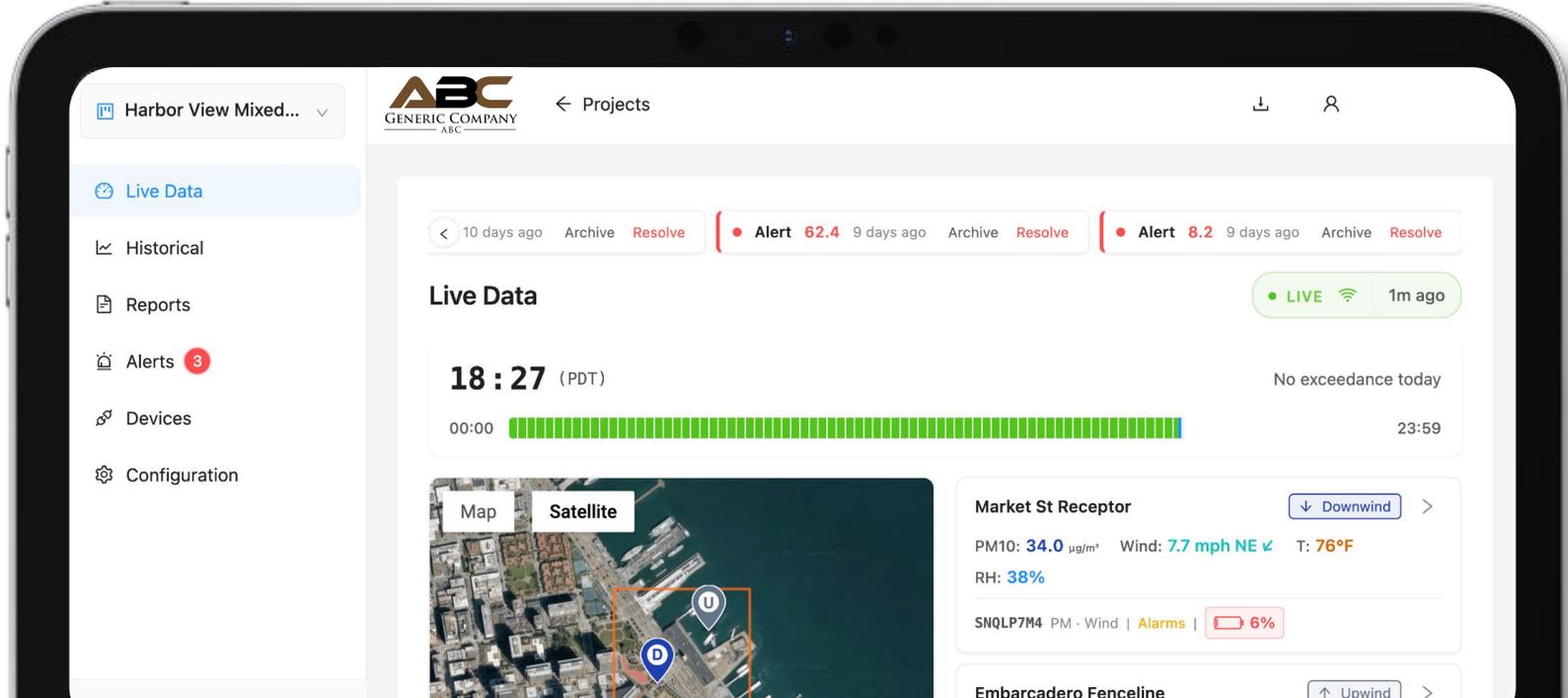
**Dust
Module**

Available now!



**Dust Measurement
Suite**

Construction-focused dashboard



Guiding principles for Clarity products

1

Answer more
questions

2

Trust
your data

3

Accelerate your
impact

How are we approaching AI?

Clarity values

```
graph TD; A[Clarity values] -.- B[Embrace the unknown]; A -.- C[Empower our customers]; A -.- D[Integrity and transparency];
```

**Embrace the
unknown**

**Empower our
customers**

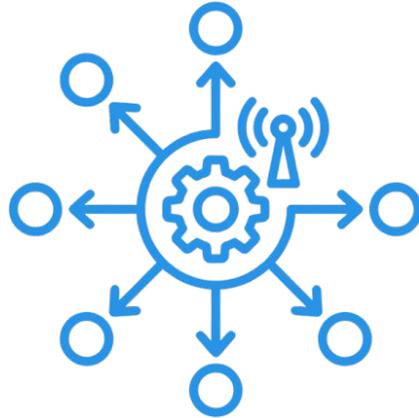
**Integrity and
transparency**

Common challenges in AQ work

**Securing
funding**



**Managing your
sensor network**



**Generating
insights**



Proposal Writing Tool

The screenshot shows the Clarity Proposal Resources dashboard. At the top, there is a navigation bar with the Clarity logo, 'Proposal Resources', and menu items for 'Projects', 'Tools', 'Library', and 'Opportunities'. On the right side of the navigation bar, there are links for 'Admin', 'Chat with Agent', a notification bell, a search icon, and the user email 'paolo@clarity.io'. The main content area is titled 'Welcome to Proposal Resources' and includes a sub-header: 'Write proposals with Clarity's pre-written language, visual assets, and AI assistance.' Below this, there are two buttons: '+ New Document' and 'New Project'. The 'Recent Work' section, indicated by a clock icon, lists five items: 'SF Map' (Map - just now), 'SF grant [WIP]' (just now), 'Milan grant application draft 1' (1m ago), 'Milan Kindergarden Monitoring' (Project - 4d ago), and 'San Francisco School monitoring' (Project - 5d ago). The 'Open Opportunities' section, indicated by a magnifying glass icon, lists two items: 'UCAIR (Utah Clean Air Partnership) — 2026 Community Gra...' (UCAIR — Utah Clean Air Partnership (state-funded) - Due Apr 12) and 'EPIC Air Quality Fund — 2026 Call for Proposals' (Energy Policy Institute at University of Chicago (EPIC) - Due Apr 30). The 'Library' section features two cards: 'Pre-written Prose' (Browse, copy, and export Clarity's ready-to-use proposal language for your grant applications.) and 'Visual Assets' (Product photos, diagrams, and screenshots. Preview, download, or add images directly to your document.). At the bottom, there is a 'Supporting Resources' section with a list of links: 'Specification Sheets', 'Academic Research', 'Performance Standards', 'Other Resources', 'Collocation Results Library', and '+4 more'.

Opportunities

Browse and apply for grants, RFPs, and funding opportunities

All Statuses ▾

All Types ▾

Always verify deadlines and details via the official call for proposals before submitting.

UCAIR (Utah Clean Air Partnership) — 2026 Community Grants Program

UCAIR — Utah Clean Air Partnership (state-funded)

Open

Grant \$ \$10,000–\$25,000 per award depending on category (5 categories); total program budget not specified 📅 4/12/2026 (19d)

Verify deadlines and details via the official call for proposals.

EPIC Air Quality Fund — 2026 Call for Proposals

Energy Policy Institute at University of Chicago (EPIC)

Open

Grant \$ \$50,000–\$75,000+ per project; at least 20 groups funded over 18-month period

Verify deadlines and details via the official call for proposals.

EPIC Air Quality Fund — 2026 Call for Proposals

Energy Policy Institute at University of Chicago (EPIC)

Start Project from this Opportunity

Link to Existing Project

View on Official Portal

Always verify deadlines and details via the official call for proposals before submitting.

\$ Funding Amount

\$50,000–\$75,000+ per project; at least 20 groups funded over 18-month period

📅 Deadline

5/1/2026

37 days remaining

👤 Eligible Applicants

Organizations legally authorized to receive U.S. funds with operational bank accounts. All countries except State Sponsors of Terrorism and EU/EEA countries. NGOs, research institutions, government agencies, universities. Applicants in 83 high-priority countries with PM2.5 data gaps prioritized.

Web-sourced or custom funding opportunities

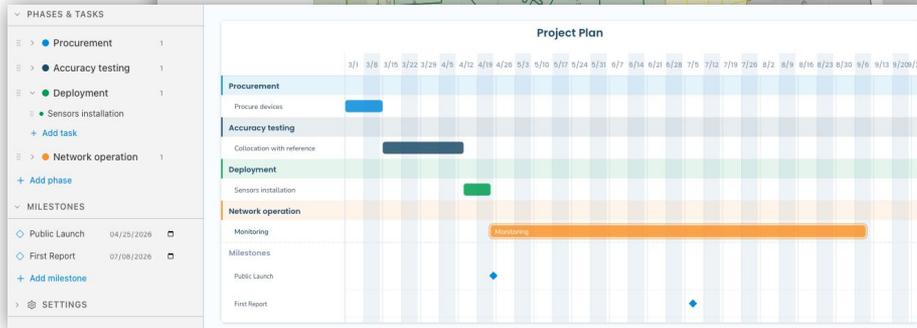
The screenshot displays the Clarity web application interface. At the top, there are navigation tabs for 'Proposals Resources', 'Projects', 'Tools', 'Library', and 'Opportunities'. The main document editor shows a 'Draft' status and a 'Chat with Agent' button. The document content is titled 'EPIC Air Quality Fund 2026 — Project Proposal' and includes sections for 'Organization Overview' and 'Problem Statement'. A chat window on the right contains a blue prompt: 'I'd like help getting started with this document. Please interview me about my project and opportunity details so we can begin drafting.' Below this, there are several input fields for user information, such as 'First, tell me about your organization — who are you, and where will this monitoring project take place?' and 'What is the primary air quality problem you're trying to address in Manila, and who are the communities most affected?'. A dropdown menu shows 'NGO in southeast Asia (Philippines, Manila)'. At the bottom of the chat, there is a text input field and a 'Review edits' button.

Draft applications with AI or accessing pre-written copy

The diagram illustrates the Clarity Node-S hardware and its key features. The central image shows a solar panel mounted on a base with a battery and a cellular antenna. Surrounding this are labels for 'Solar Panel', 'Internal Battery', 'Cellular Connectivity', and 'UV-resistant & Weatherproof'. A list of features includes: Overview (Introduction to Clarity, Clarity Air Monitor), Hardware (Clarity Node-S, Clarity Node-SDI2, Wind Module, Ozone Module, Black Carbon Module, Multi-Gas Module, Dust Module, External Power Source), Software (Clarity Cloud, Clarity Dashboard, Clarity OpenMap, Air Quality Measurement, Automated Data, USEPA & USFS Files, Clarity API), Services & Support (Expert Support, Data Transparency, Clarity Add-on Services), and Data Quality (Importance of Calibration, Calibration Approaches, Performance Metrics). A text box at the bottom states: 'The Node-S operates entirely off-grid. An integrated 6 W solar panel with a 6,400 mAh battery provides continuous power with no external electricity required. The battery sustains operation for 30 days without any sunlight, and the system is rated for more than five years of continuous operation with solar harvesting. Built-in cellular connectivity (2G/3G/4G with a global SIM card and data service included) transmits measurement data to the Clarity Cloud at user-configurable intervals, with a default of one reading every 15 minutes and a minimum interval of 3 minutes.'

The screenshot displays the Clarity software interface. At the top, there are navigation tabs for 'Proposal Resources', 'Projects', 'Tools', 'Library', and 'Opportunities'. The main area shows a map of San Francisco with several monitoring sites marked with blue 'B' icons and labeled 'Site A' through 'Site H'. A sidebar on the left contains sections for 'HARDWARE' (Monitoring Site), 'LAYERS' (CalEnviro...), 'BOUNDARIES', 'DRAW', 'HEADER / FOOTER', and 'ANNOTATE'. A pop-up window for 'Site A' is open on the right, showing fields for 'Label', 'Site Type', 'Location Description', 'Coordinates', 'Sensor Modules' (Wind, Ozone, Dust, Multi-Gas, Black Carbon), and 'Notes'.

Easily generate Maps and GANTT Charts



AI-powered tools in development

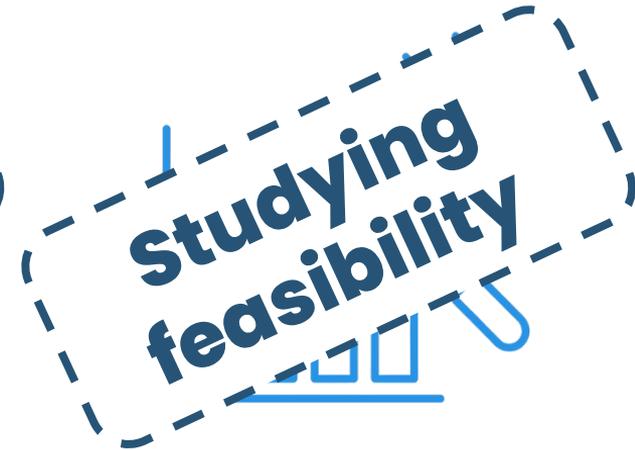
Securing
funding



Managing your
sensor network



Generating
insights



Deployed in
85+
countries

Chicago, Illinois

275+ sensors, largest network in the United States

London, United Kingdom

450+ sensors to optimize air quality policies

Philadelphia, Pennsylvania

Breathe Philly, citywide network of 75+ air quality sensors

Los Angeles, California

LAUSD deployed 200+ Node-S sensors for largest air monitoring network of any US school system

Kampala, Uganda

Clarity used to establish the first official air quality monitoring network

Bishkek, Kyrgyzstan

50+ sensors, \$50M in World Bank funding secured for air quality

Manila, Philippines

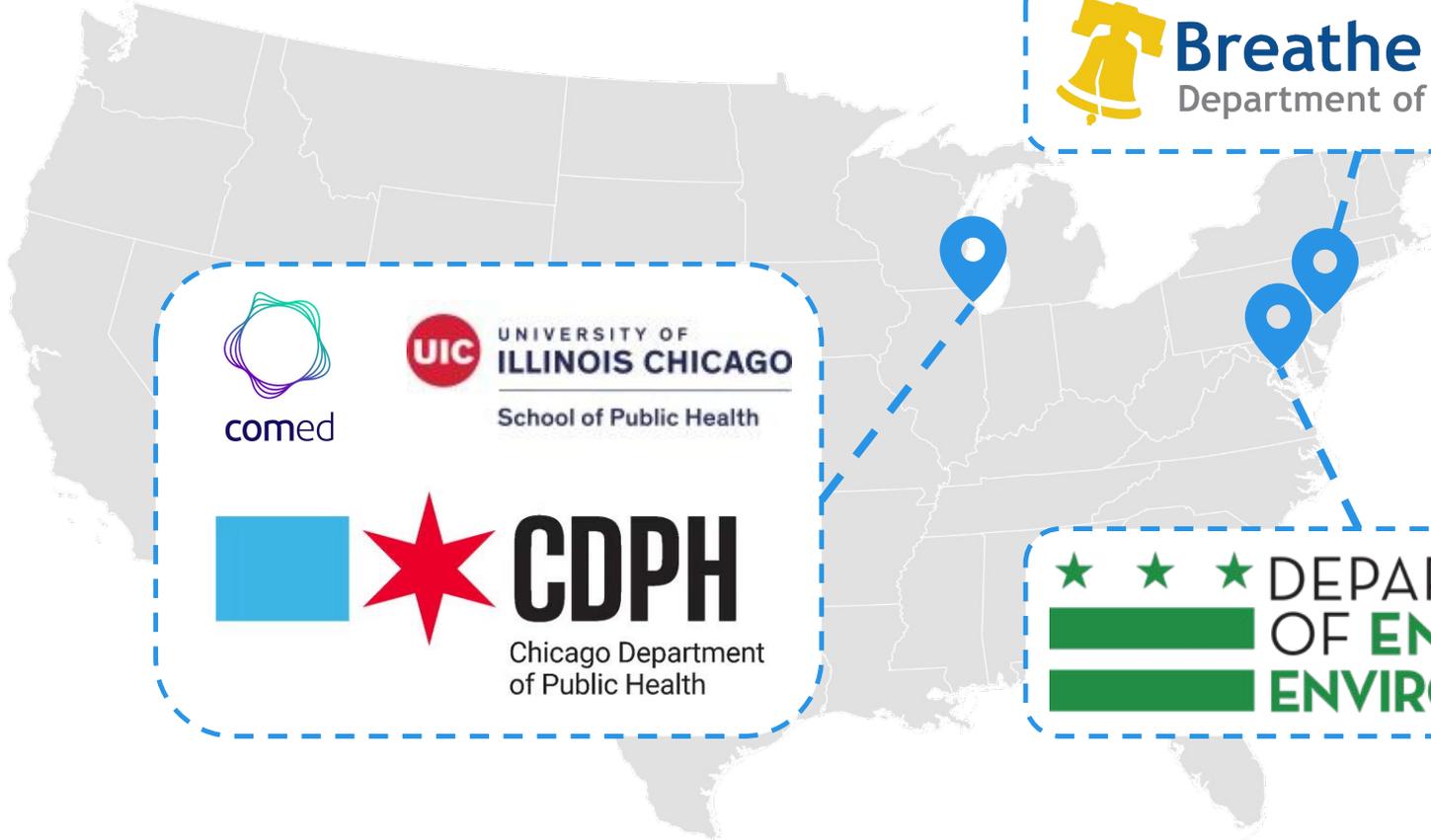
Breathe Metro Manila supports improved air quality management

Jundiaí, Brazil

Smart City pilot program

Perth, Australia

200+ sensors deployed by RACWA



Breathe Philly

Department of Public Health



comed



UNIVERSITY OF
ILLINOIS CHICAGO

School of Public Health



CDPH

Chicago Department
of Public Health



DEPARTMENT
OF **ENERGY &**



ENVIRONMENT

Open Air Chicago

Chicago, IL, USA

Number of
Clarity Nodes: **275+**

“Installing air sensors across our city is imperative in assessing what risks there are and protecting our community members, especially those who are most vulnerable.

CDPH continues to gather the best available data for all Chicagoans to guide the development of interventions to improve the health of Chicagoans.”



**Olusimbo “Simbo” Ige,
MD, MS, MPH**

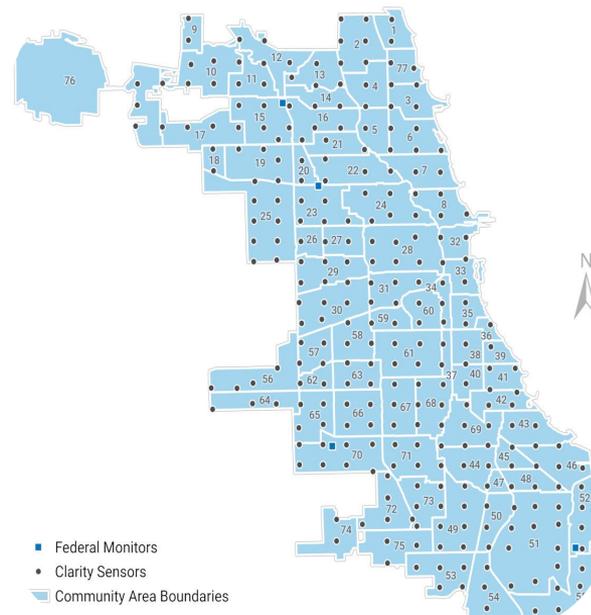
CDPH Commissioner

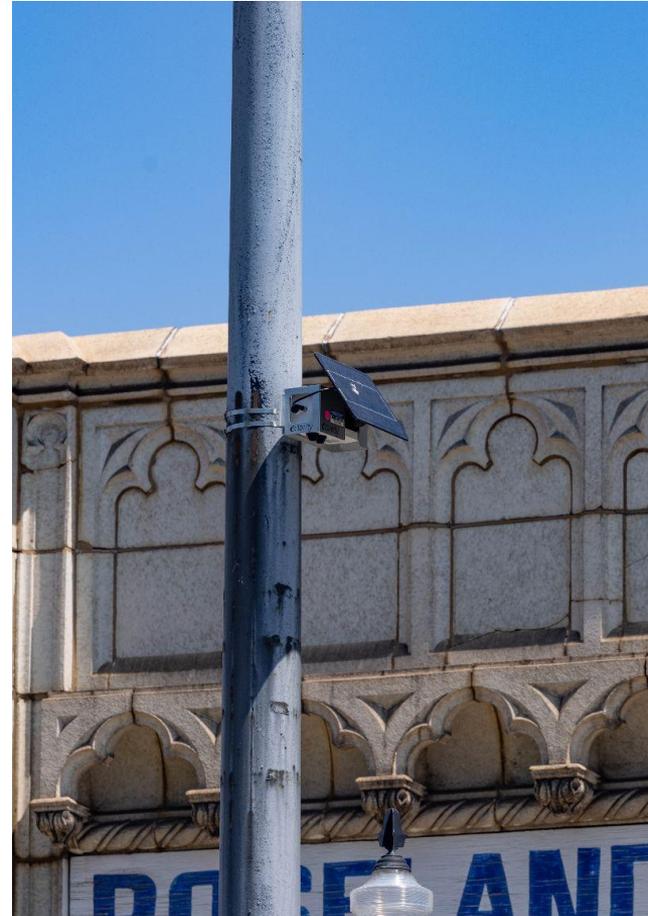
Action Enabled:

**Collect data to guide targeted
air quality interventions**



Chicago Department
of Public Health





Breathe Philly

Philadelphia, PA, USA

Number of
Clarity Nodes: **75+**

“This is what it looks like when government works. Breathe Philly ensures no matter your zip code, you have access to real-time information about the air you and your family are breathing. This is about transparency, environmental justice, and giving residents tools to protect their health.



Cherelle Parker
Mayor of Philadelphia

Action Enabled:

Provide local, real-time air quality data for citizens



City of
Philadelphia



Department of
Public Health



The screenshot displays the Breathe Philly website interface. At the top, there are navigation links: "Air Quality Near Me", "Learn About Pollution", "Resource Center", and "Contact Us". The main content area features a map of Philadelphia with numerous green dots representing Clarity Sensors and squares representing Reference Monitors. A legend in the top right corner identifies these symbols. On the left side of the map, there is a search bar and a "US EPA AQI" scale ranging from "Good" (green) to "Hazardous" (red). Below the map, a "Welcome to Breathe Philly" message is displayed, explaining that the site provides accurate, hourly air quality measurements. A circular gauge in the bottom right corner shows the current AQI of 64, categorized as "Moderate", with a timestamp of 10 PM EDT Mar 12 and the AirNow logo.

D.C. DOE

Washington, D.C., USA

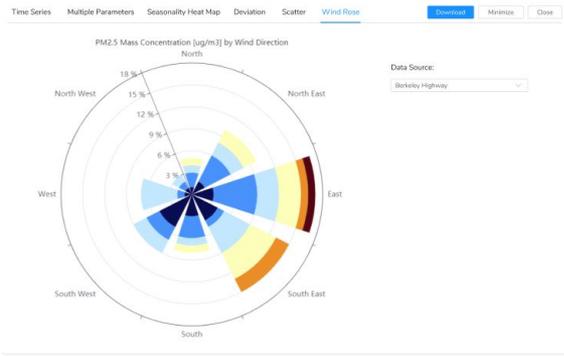
Number of
Clarity Nodes: **45+**

Node-S, Multi-Gas
Module, and Wind Module

Successful collocations
with strong data quality

Full network deployment
underway with expected
completion in 2026

★ ★ ★ DEPARTMENT
OF ENERGY &
ENVIRONMENT



Webinar & Panel Discussion

Thursday, April 16th, 2026 | 8 AM Pacific | 15:00 UTC

Chicago, Philadelphia, and D.C.

**How U.S. Cities Are Scaling Air Sensor
Networks for Next-Generation Air
Monitoring**



Webinar & Panel Discussion



Register here:

tinyurl.com/US-Cities-Sensors





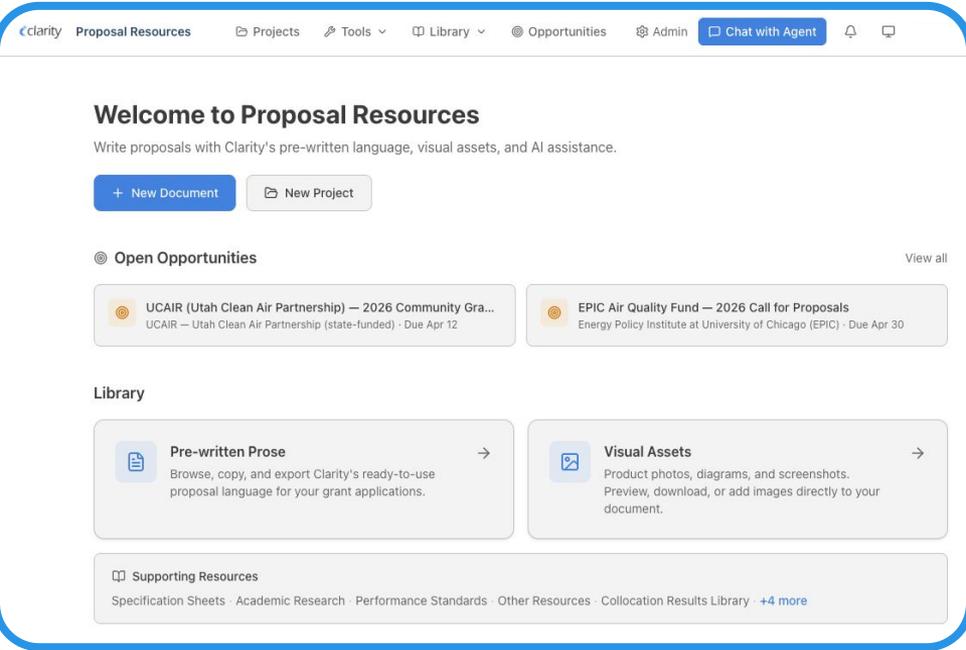
Dust Module

**Contact us
for pricing!**



Dust Measurement Suite

Available for pilots!



The screenshot shows a web interface for 'Proposal Resources'. At the top, there is a navigation bar with links for 'clarity', 'Proposal Resources', 'Projects', 'Tools', 'Library', 'Opportunities', 'Admin', and a 'Chat with Agent' button. Below the navigation, a heading reads 'Welcome to Proposal Resources' followed by the text 'Write proposals with Clarity's pre-written language, visual assets, and AI assistance.' There are two buttons: '+ New Document' and 'New Project'. A section titled 'Open Opportunities' contains two cards: 'UCAIR (Utah Clean Air Partnership) — 2026 Community Gra...' and 'EPIC Air Quality Fund — 2026 Call for Proposals'. Below this is a 'Library' section with two cards: 'Pre-written Prose' and 'Visual Assets'. At the bottom, there is a 'Supporting Resources' section with a list of links and a '+4 more' link.

Proposal Tool

Contact us to learn more!

Thank you

**for everything you do to make
the world a better place.**

Any questions?



David Lu
Co-Founder & CEO



Meiling Gao, PhD
Co-Founder & COO



Paolo Micalizzi
Co-Founder & CTO



Aubrey Burgess
Projects Team Lead