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Clarity Showcase

March 25th, 2026

Welcome!

David Lu
Co-Founder & CEO

Meiling Gao, PhD
Co-Founder & COO

Paolo Micalizzi
Co-Founder & CTO

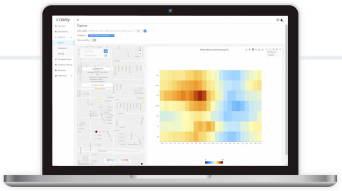
Aubrey Burgess
Projects Team Lead

Sensing-as-a-Service℠

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, O_3, 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

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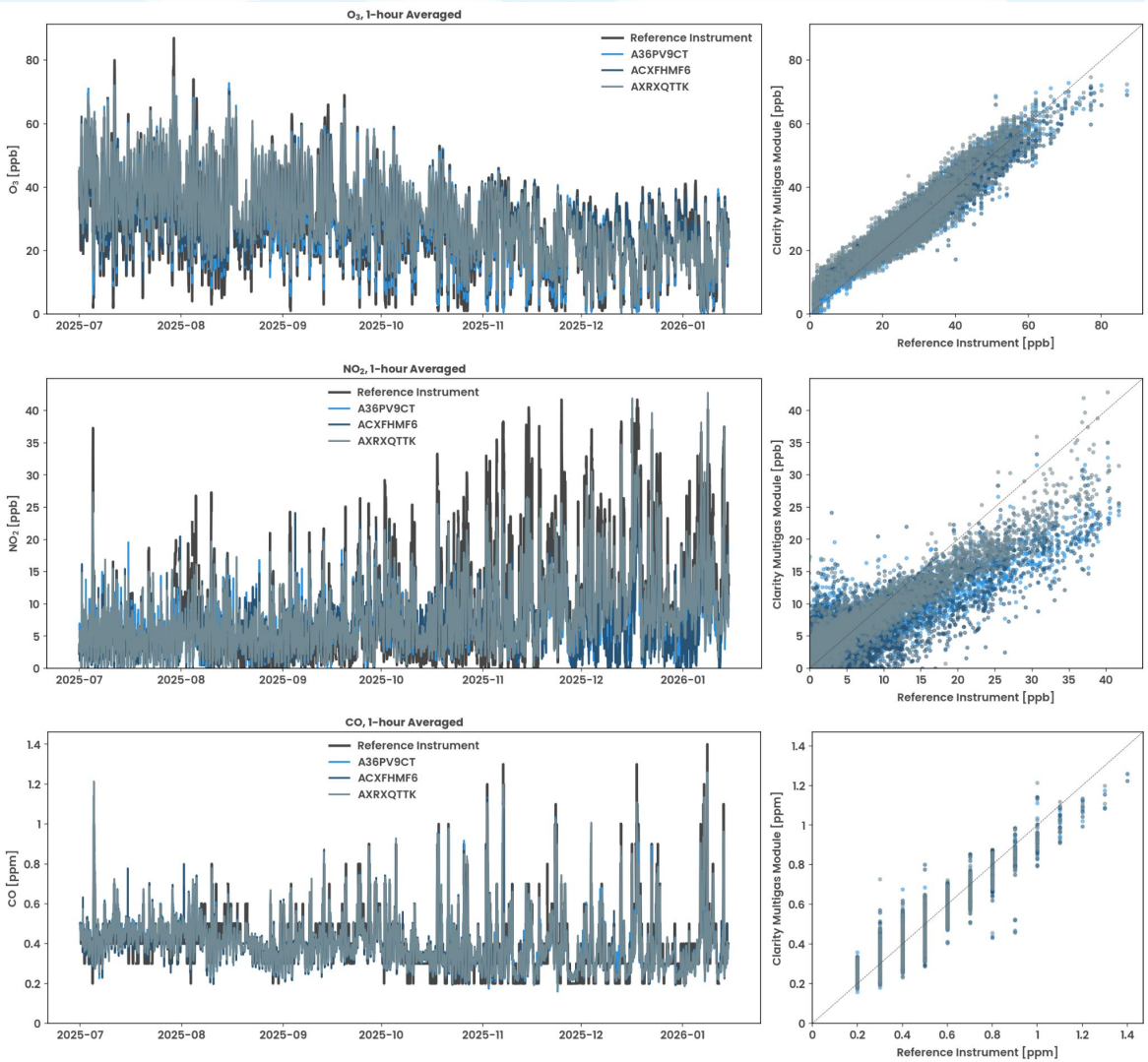
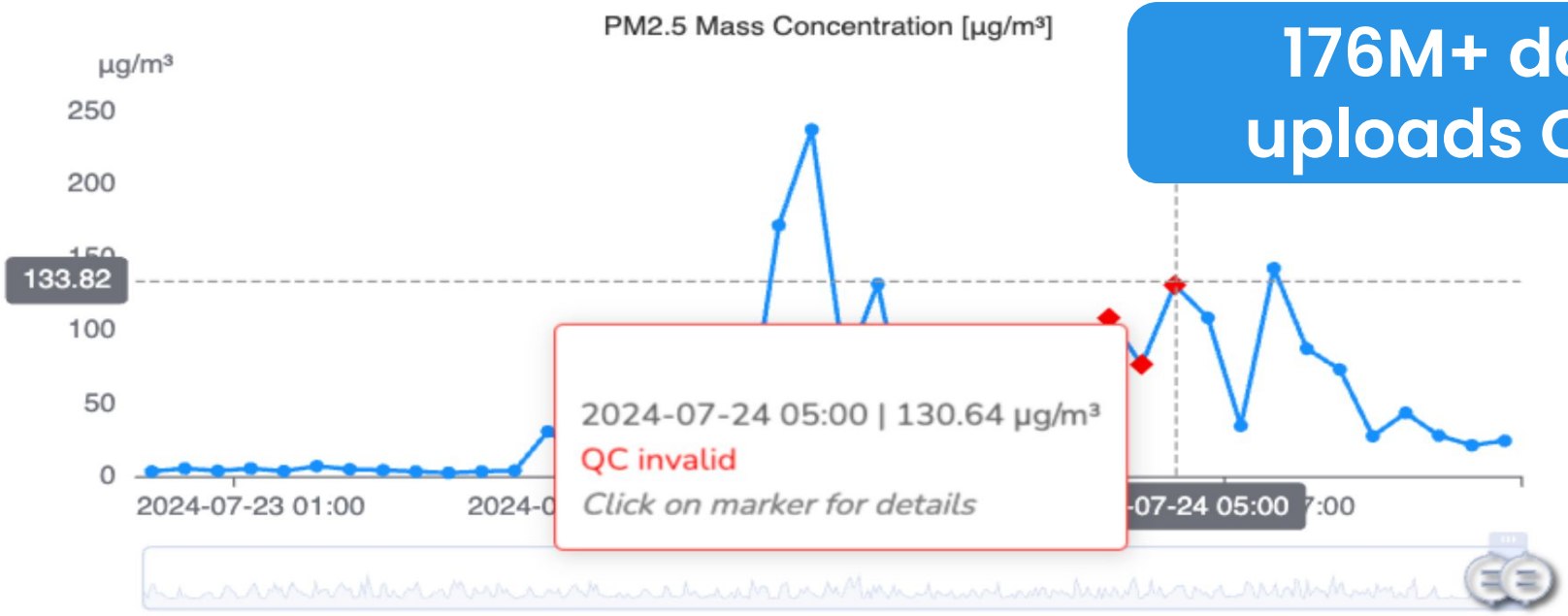
Introduced at the last Showcase

Multi-Gas Module



Introduced at the last Showcase

Automated QC



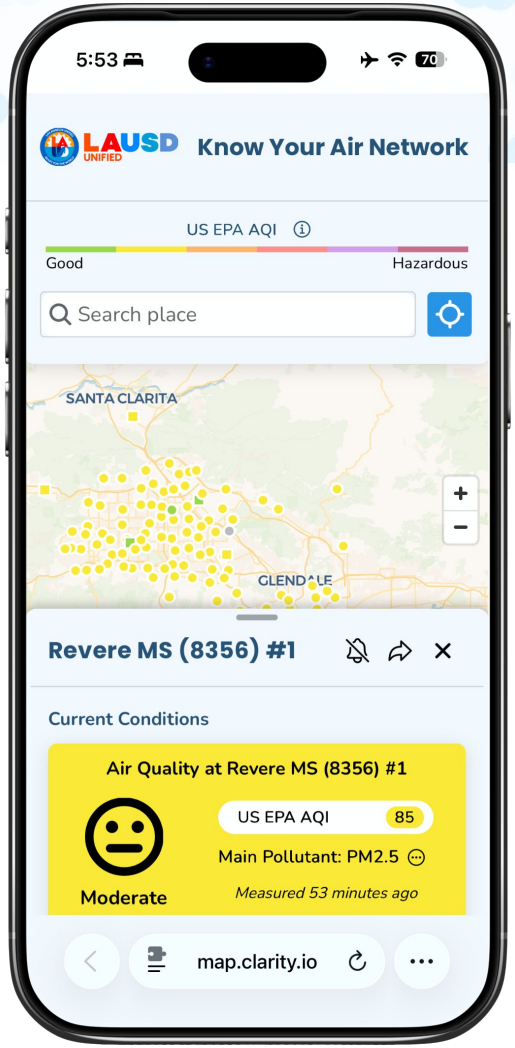
176M+ data uploads QC'd

Introduced at the last Showcase

New and improved OpenMap public data sharing platform

250K+ Sessions

150K+ Unique Users



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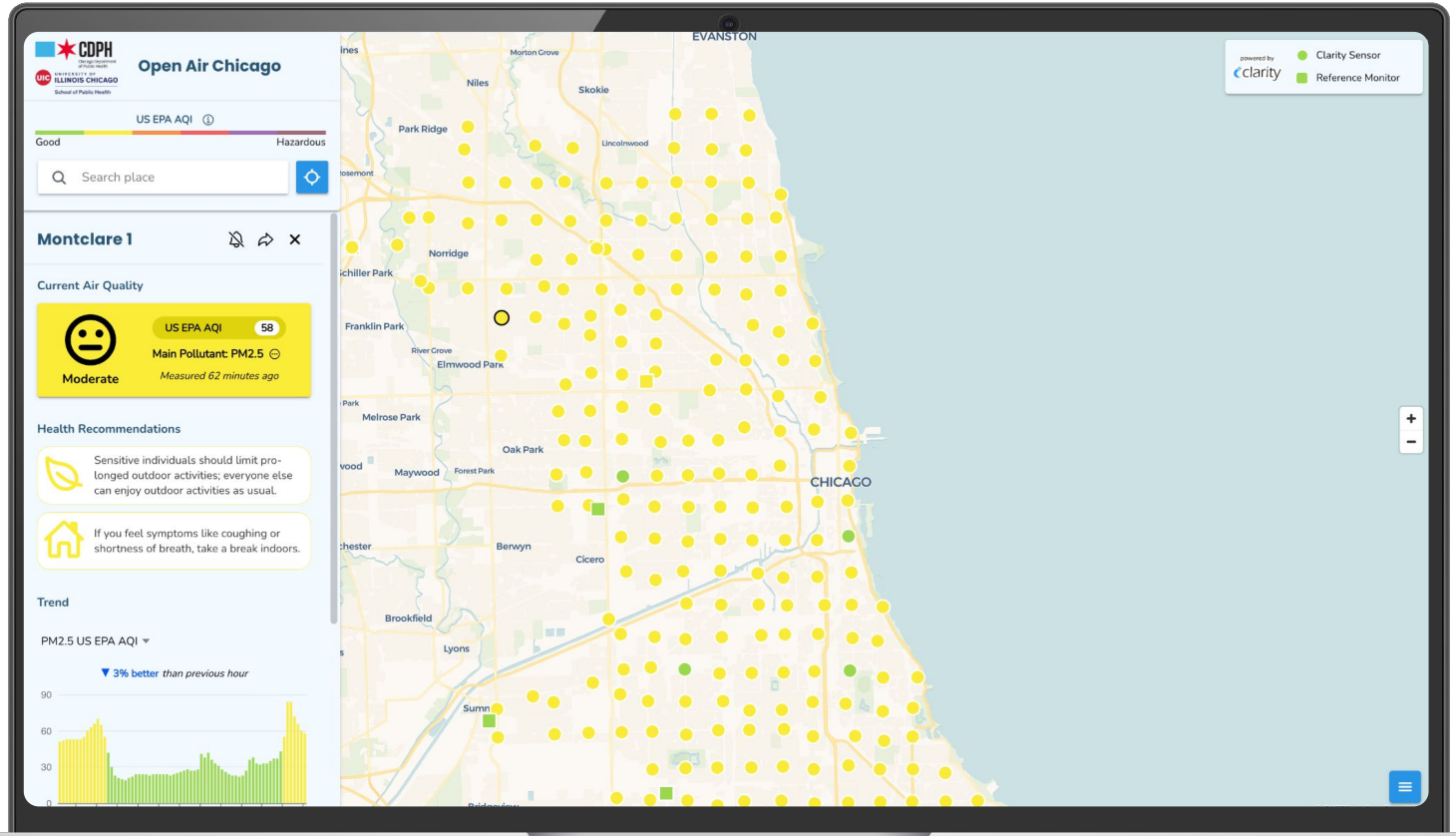

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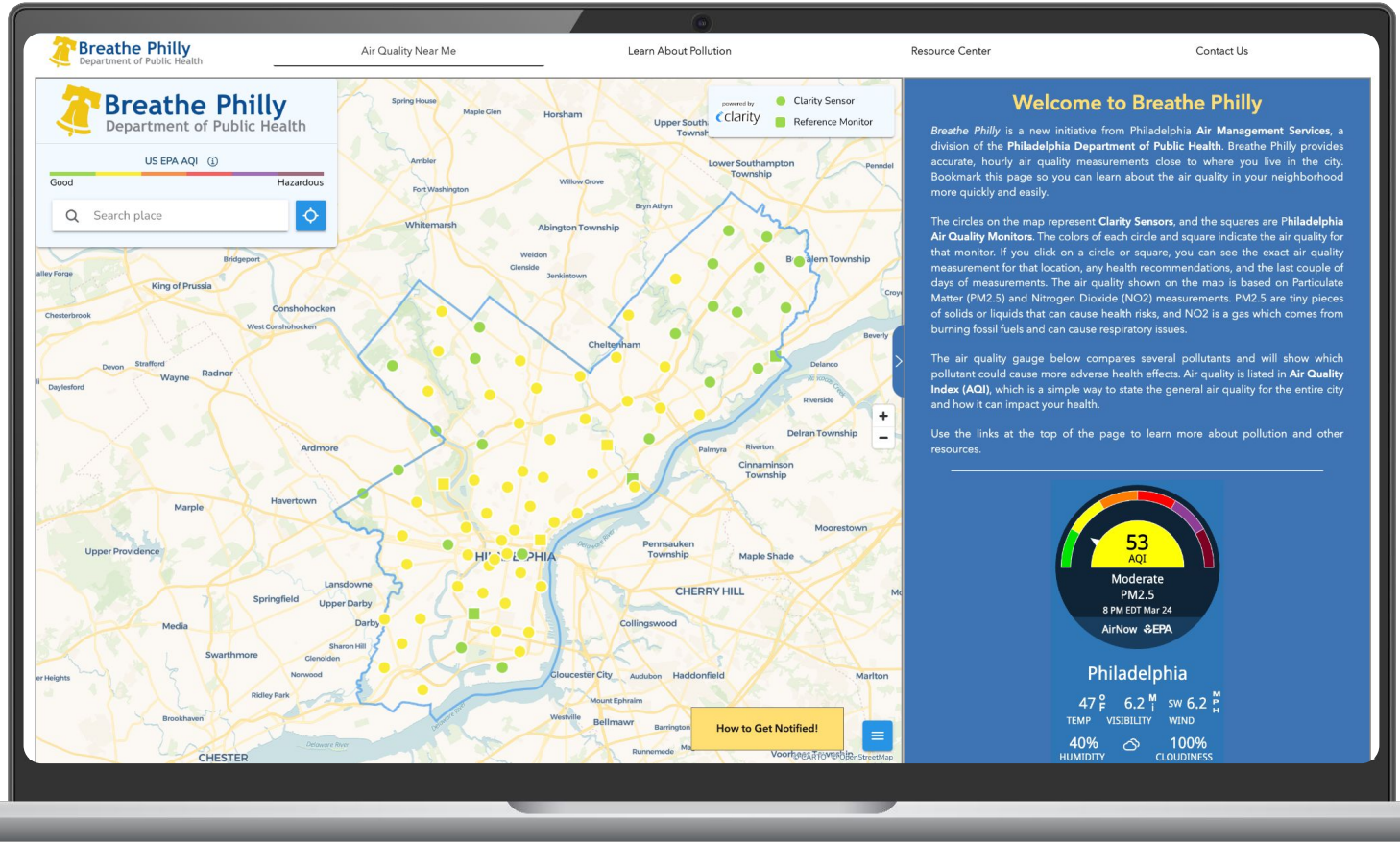
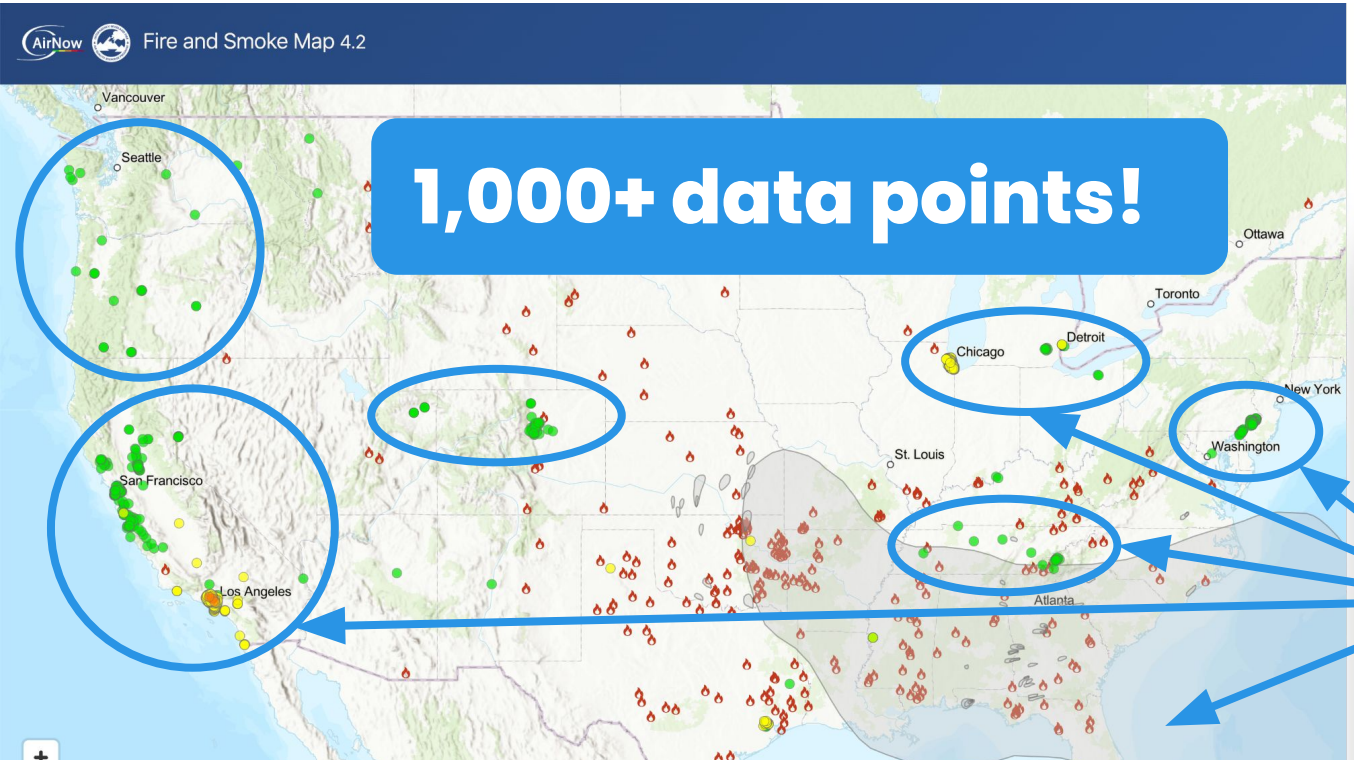
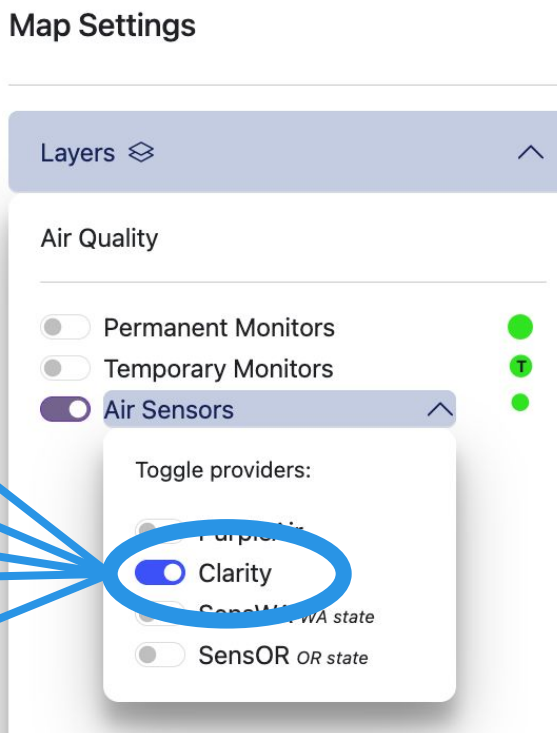


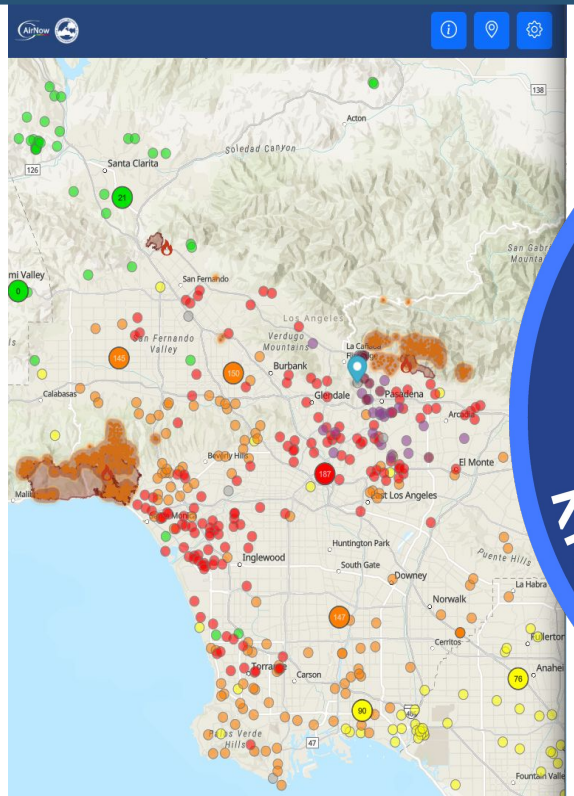
2025 Impact Highlights

Added to Fire & Smoke Map

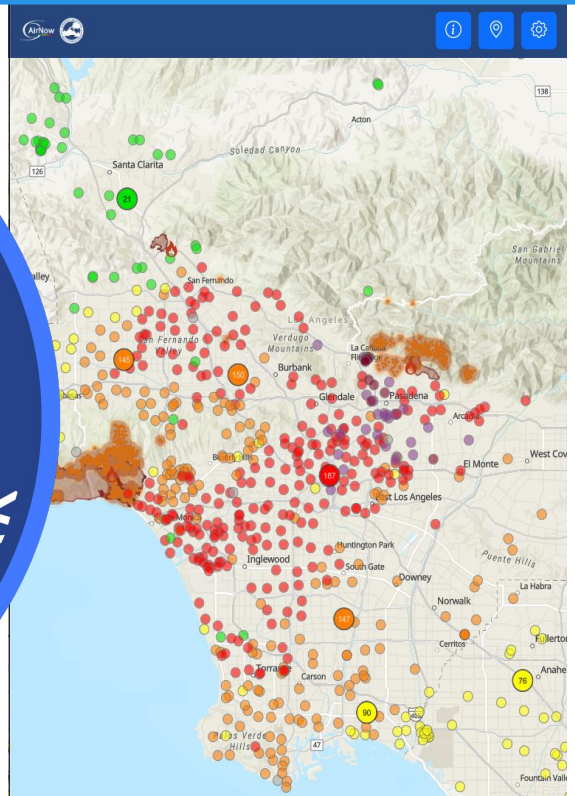




Without Clarity

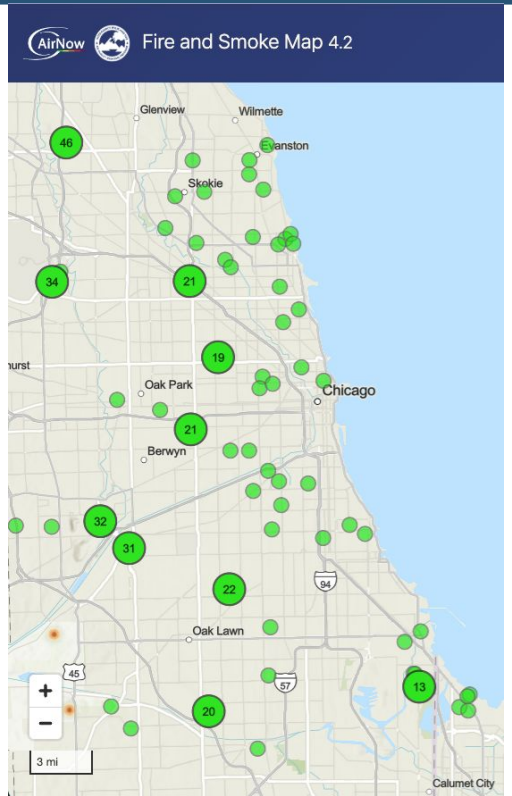


With Clarity

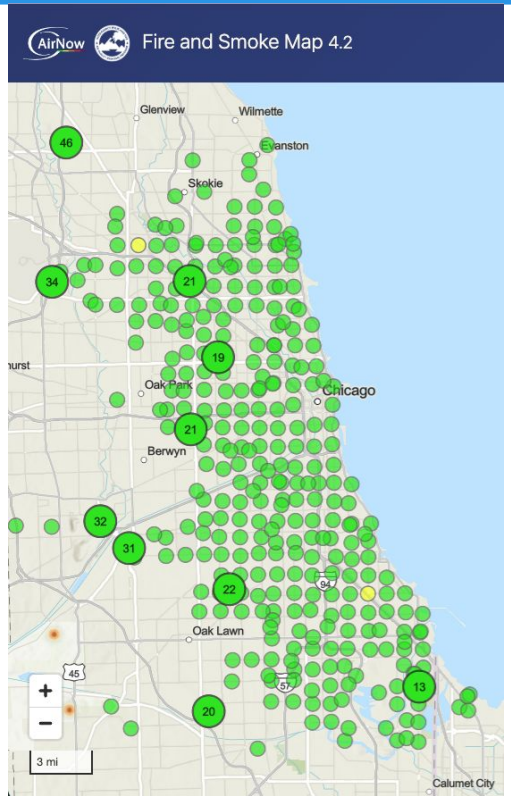


Open Air Chicago

Without Clarity



With Clarity



CDPH
Chicago Department of Public Health

comed

UIC UNIVERSITY OF ILLINOIS CHICAGO
School of Public Health

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

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MMW4Q33P
TYPE: CLA-DUST01
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WWW.CLARITY.IO
Dust Module

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Dust Module

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

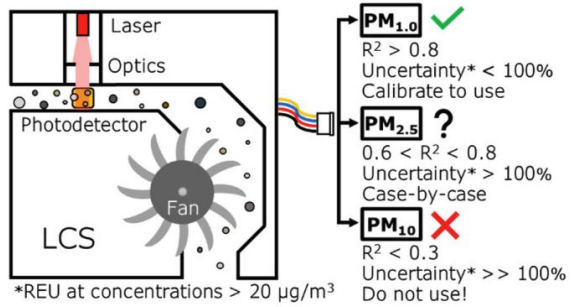
Limitations of LCS for PM_{10}

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

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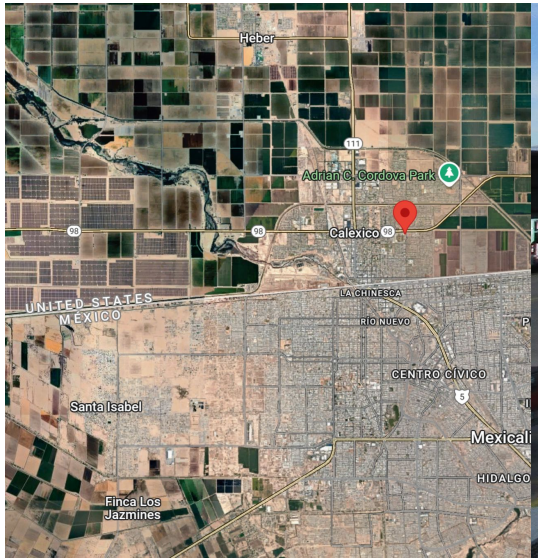
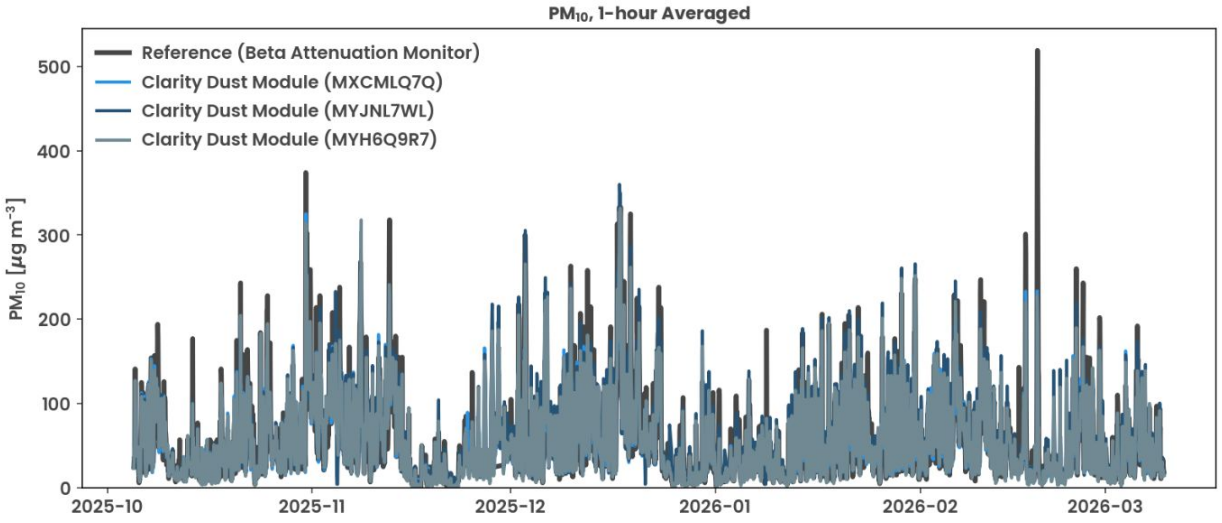
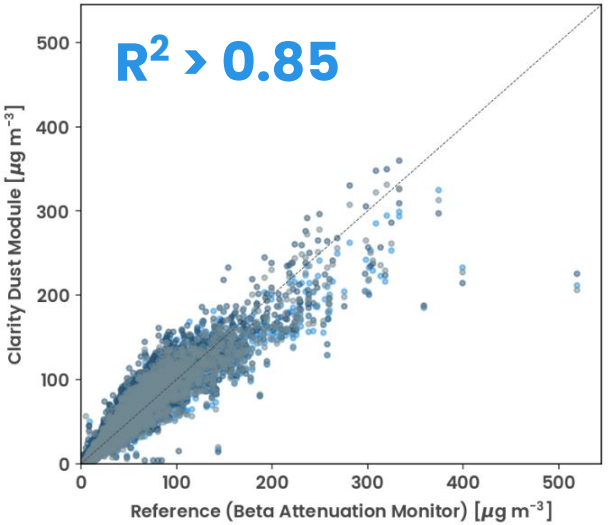
Preliminary performance data: Calexico, California

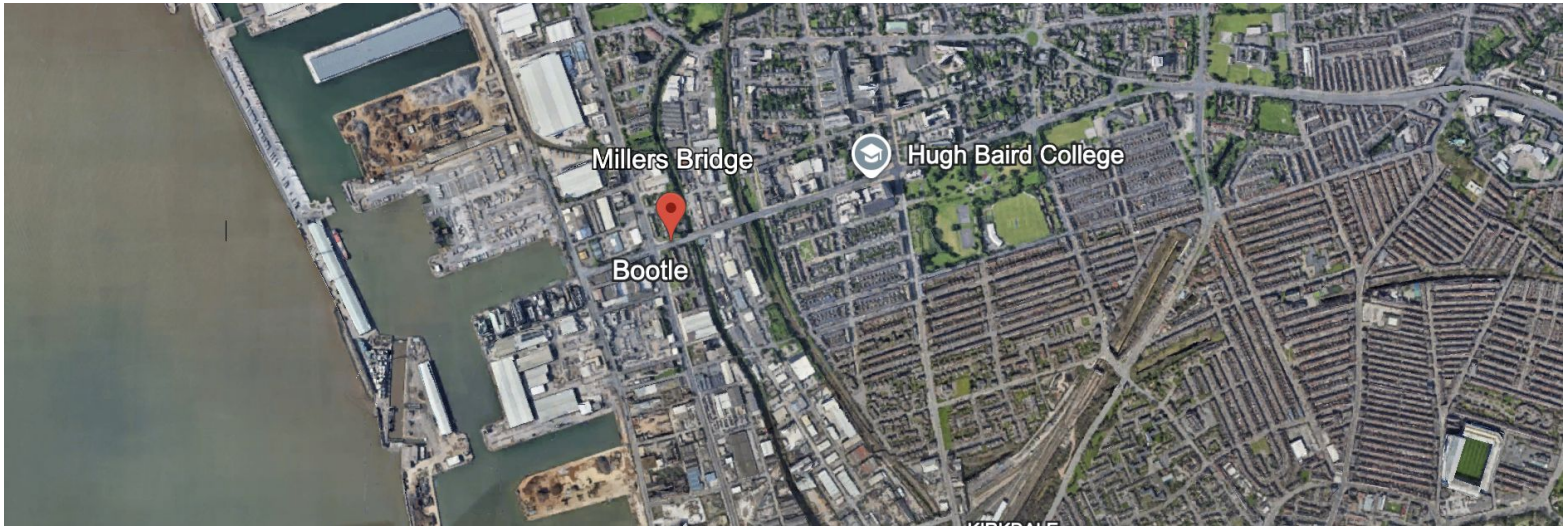


Preliminary performance data: Calexico, California





Preliminary performance data:
Sefton, United Kingdom



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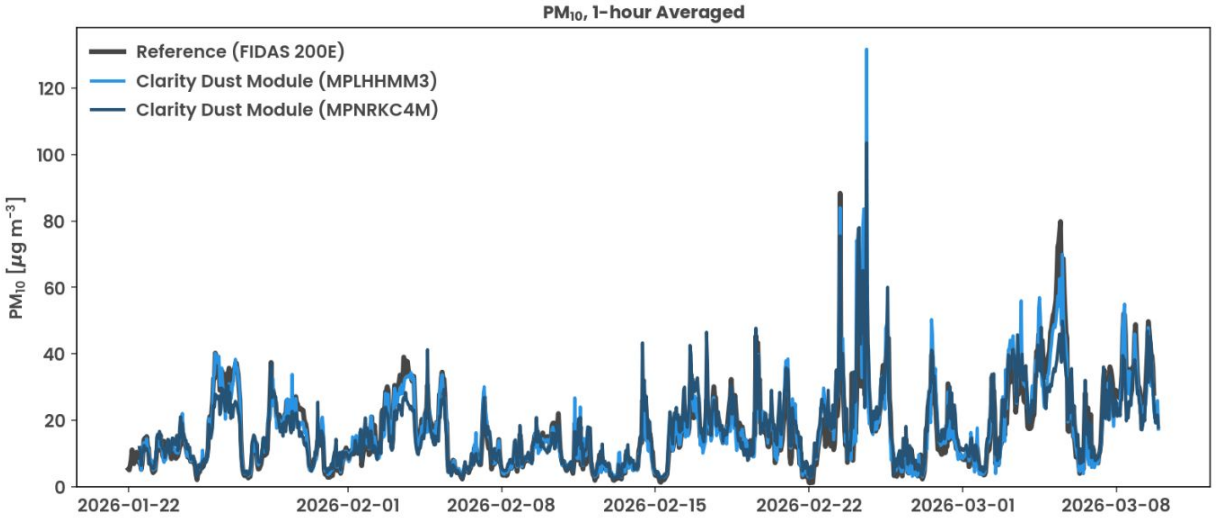
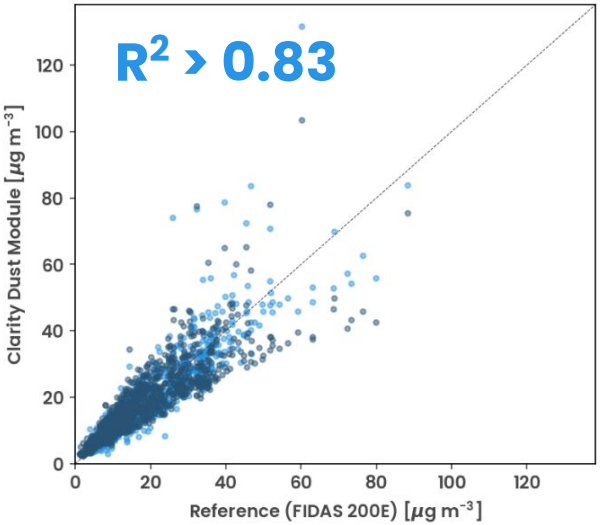




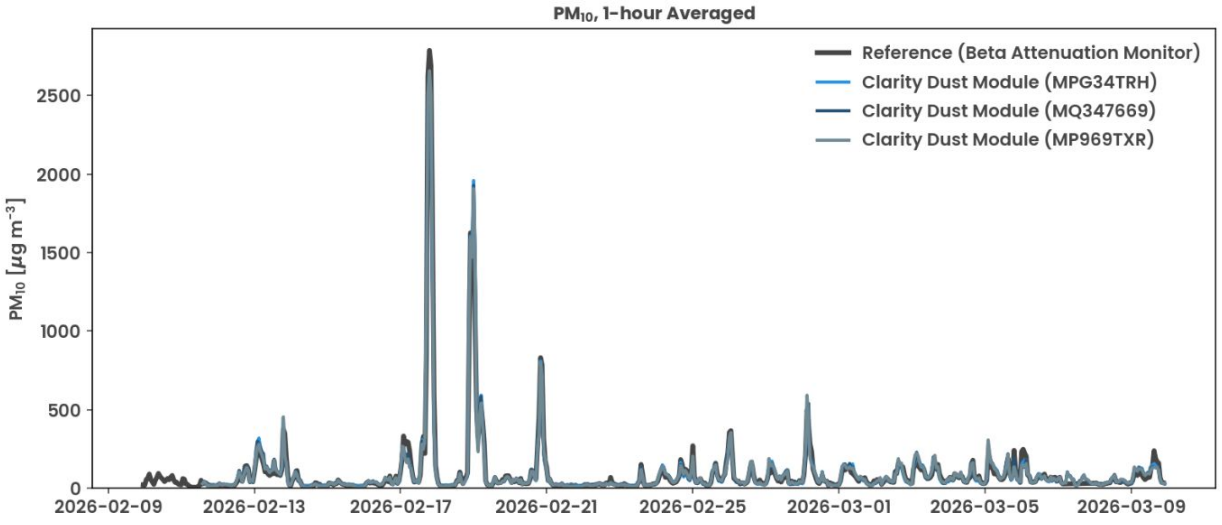
Preliminary performance data:
El Paso, Texas

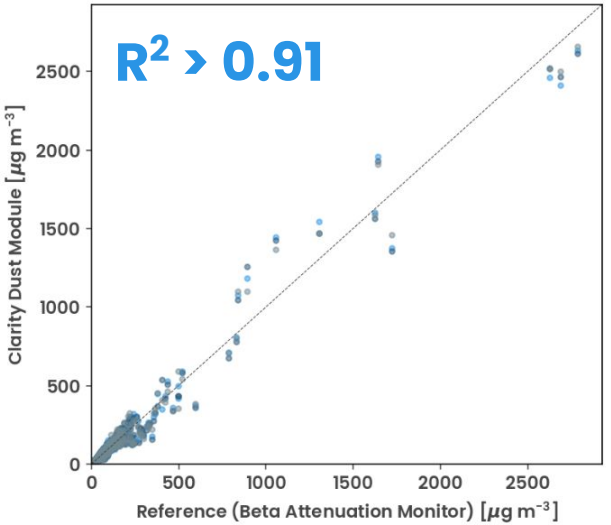
El Paso Hasn't Seen This Many Dust Storms Since the Dust Bowl

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
May 21, 2025

Preliminary performance data:
El Paso, Texas





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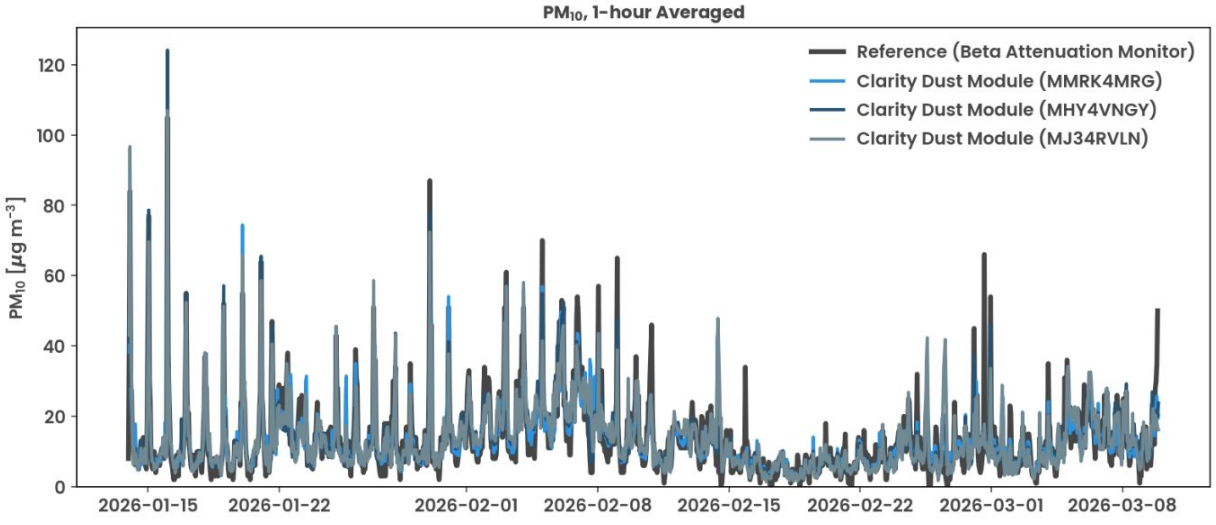
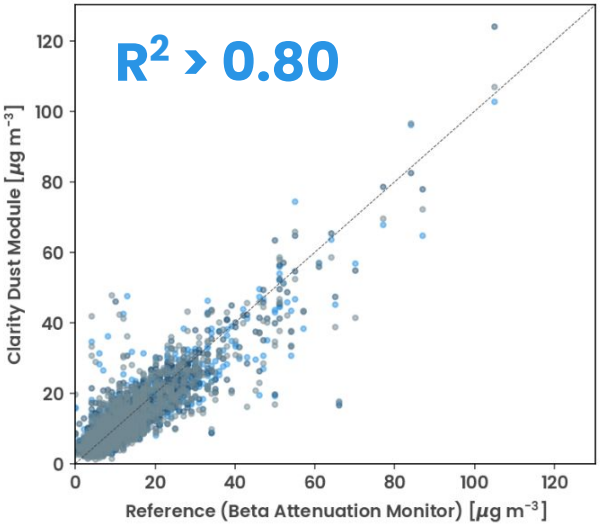
Heated inlet

Preliminary performance data:
King City, California

Heated inlet

Preliminary performance data:
King City, California

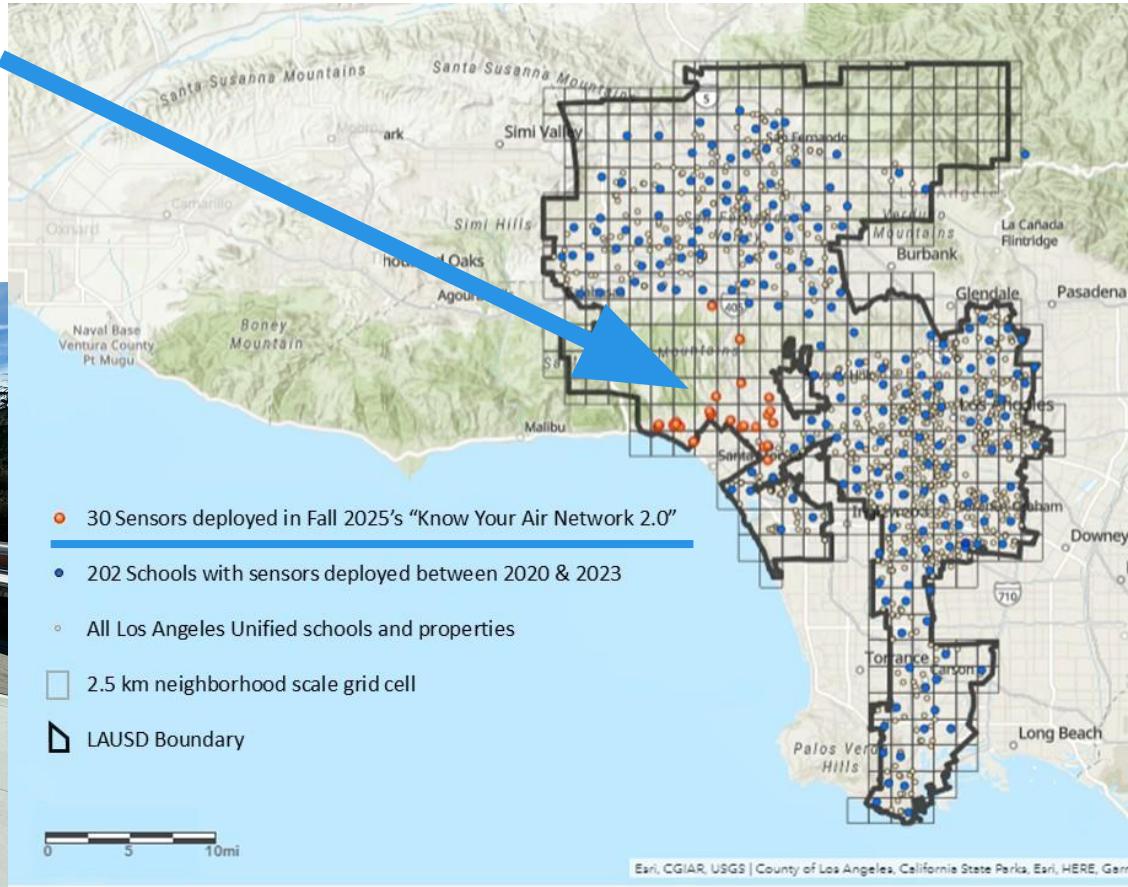




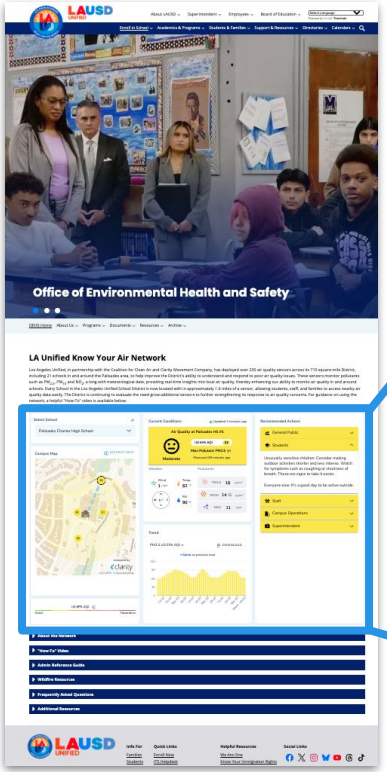
Question: Are dust/ash from wildfire recovery efforts impacting LAUSD school sites?

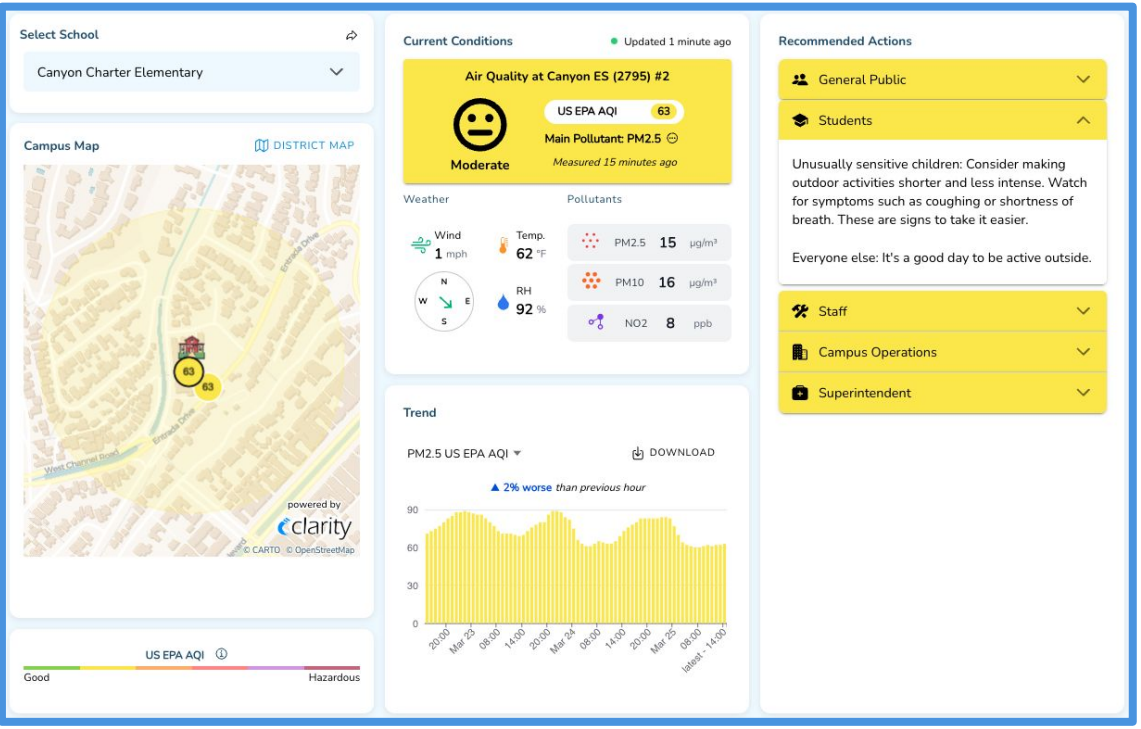
LAUSD Dust Pilot

30 PM_{10} sites



LAUSD OpenMap Plus Implementation





Dust Module

Near-reference coarse mode PM_{10} detection

Measurement Parameters

- Particulate Matter (PM_{10})

Specifications

- Heated inlet
- Range: 0-10,000 µg/m^3
- Resolution: 1 µg/m^3
- Optionally solar-powered

Two PM_{10} measurement options

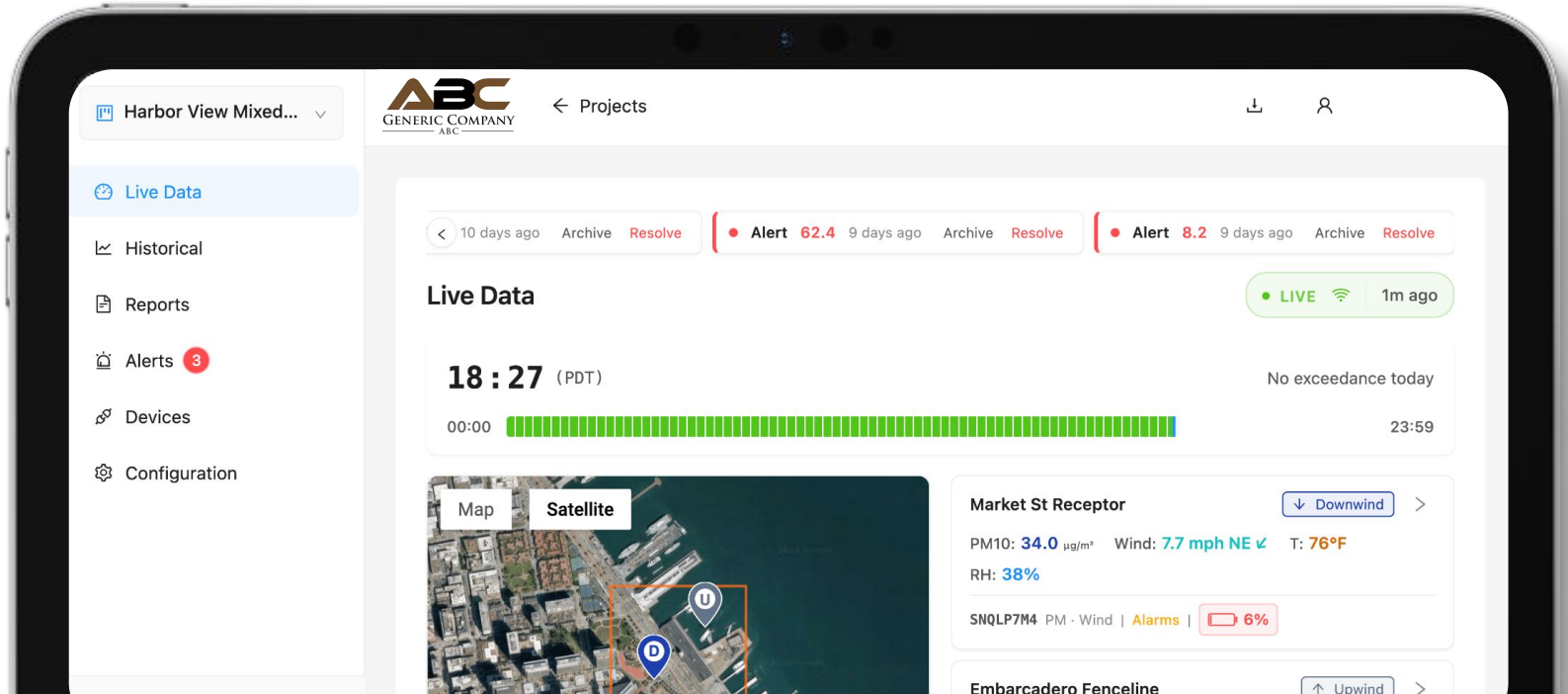
Available now!

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?

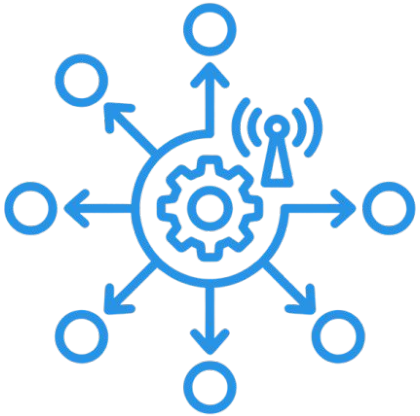
Clarity values

- **Embrace the unknown**
- **Empower our customers**
- **Integrity and transparency**

Common challenges in AQ work

Securing funding

Managing your sensor network



Generating insights

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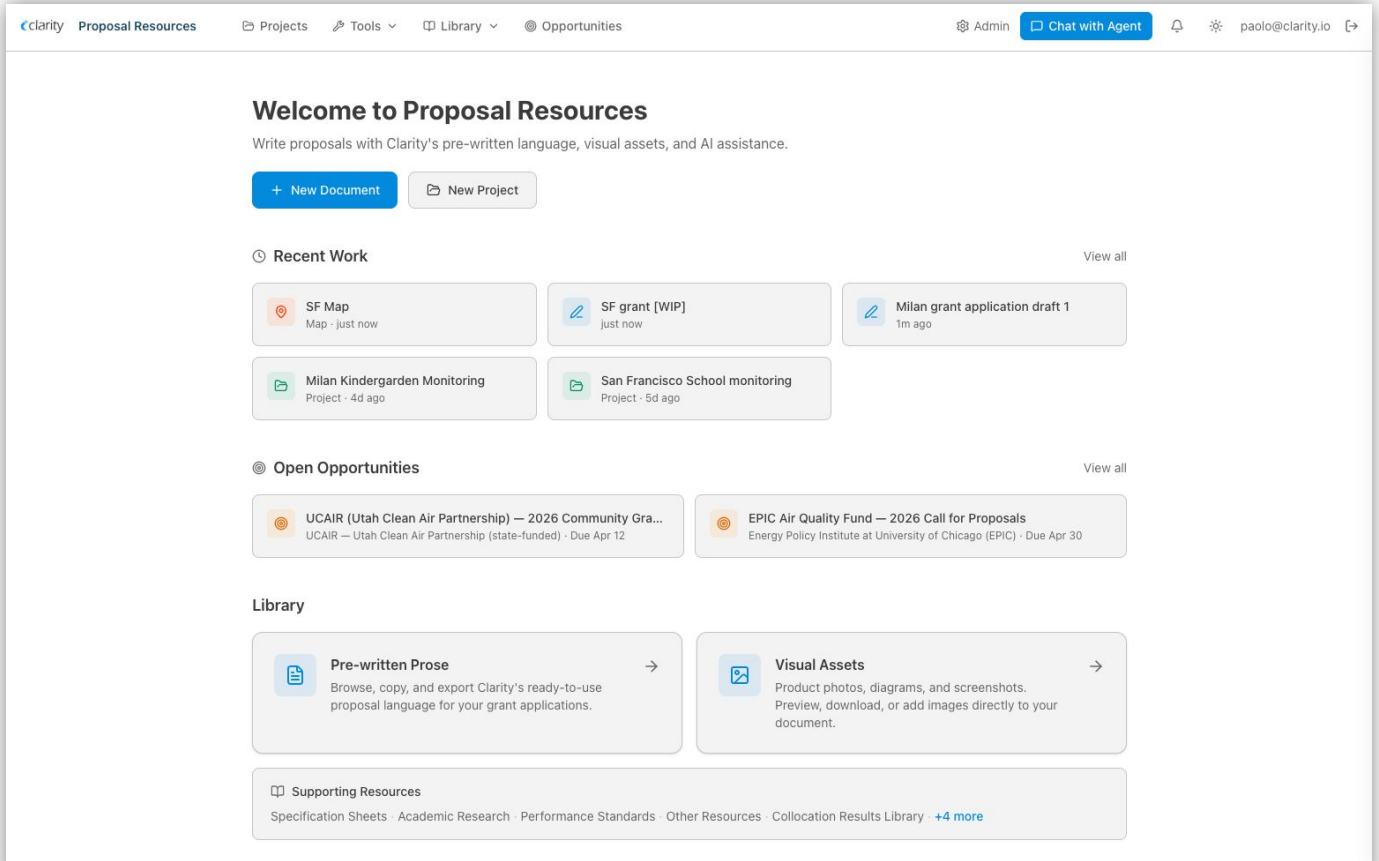
Proposal Writing Tool



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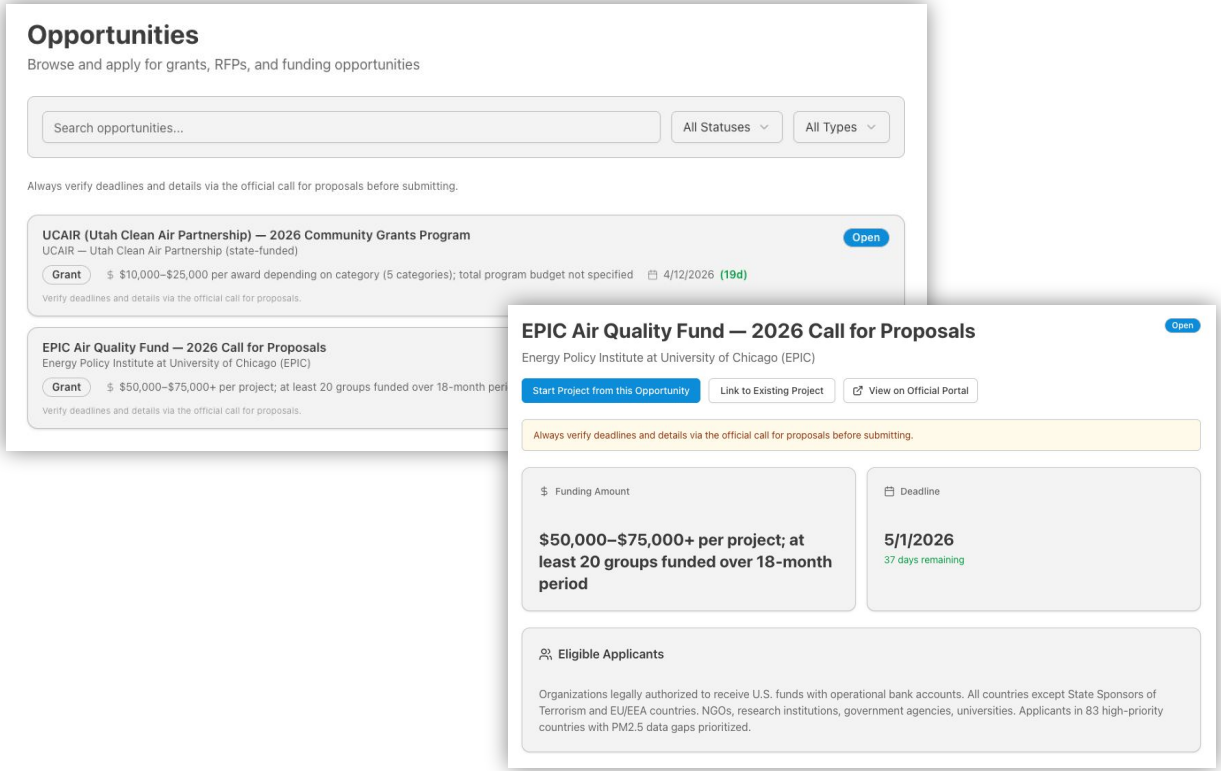

Web-sourced or custom funding opportunities

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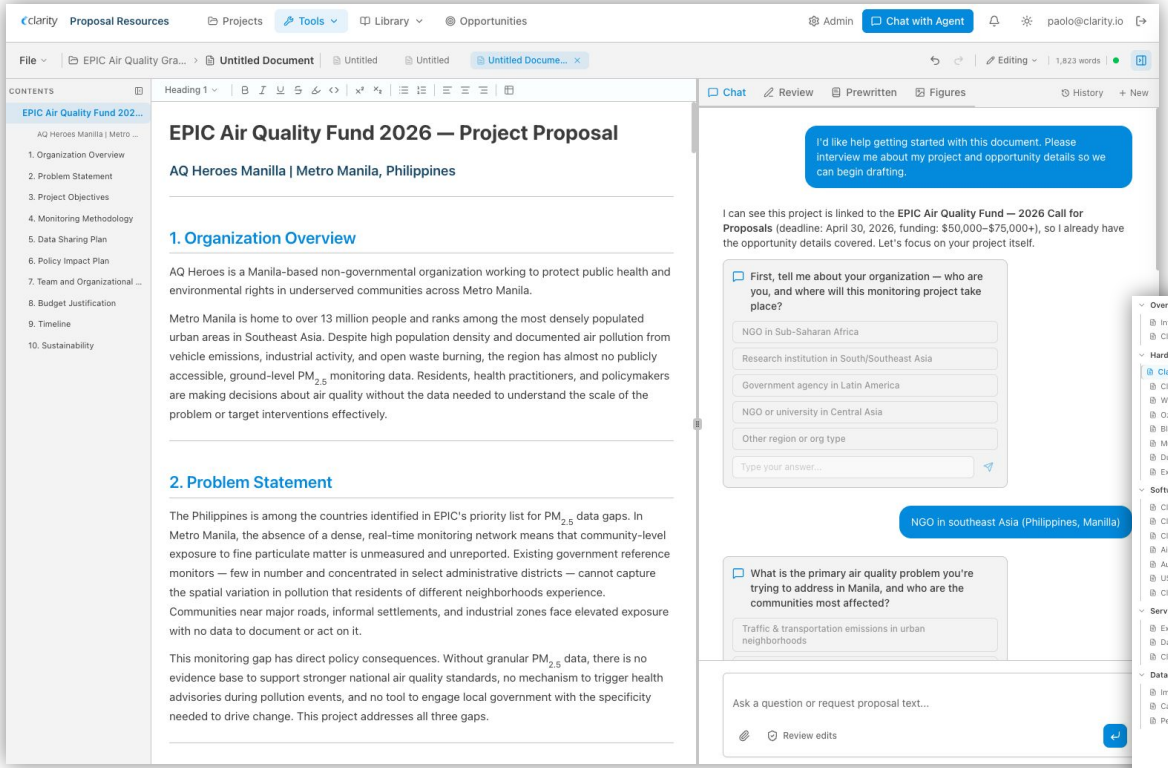
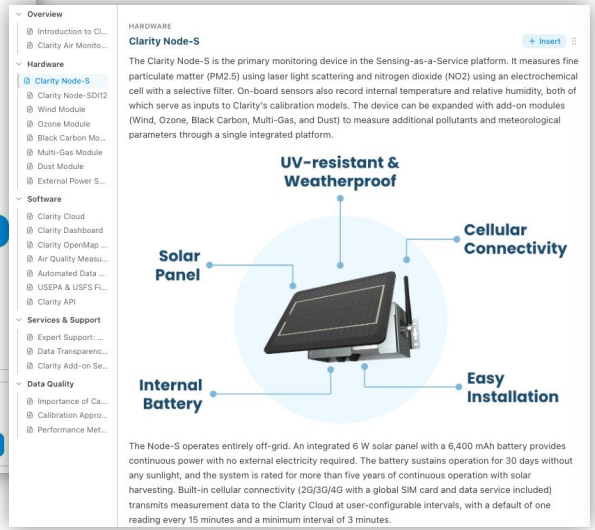


Draft applications with AI or accessing pre-written copy



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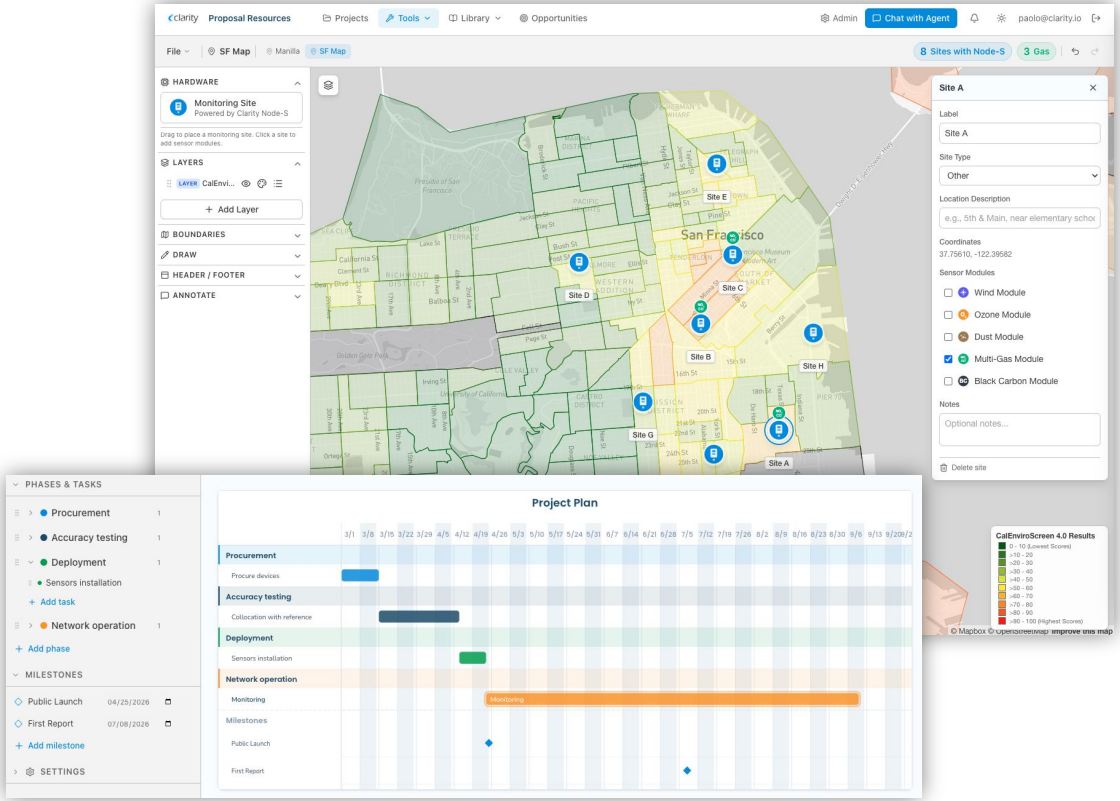


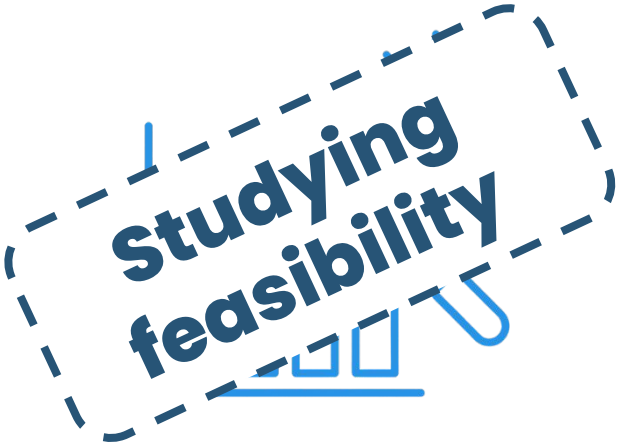
Easily generate Maps and GANTT Charts

AI-powered tools in development

Securing funding

Managing your sensor network

Generating insights



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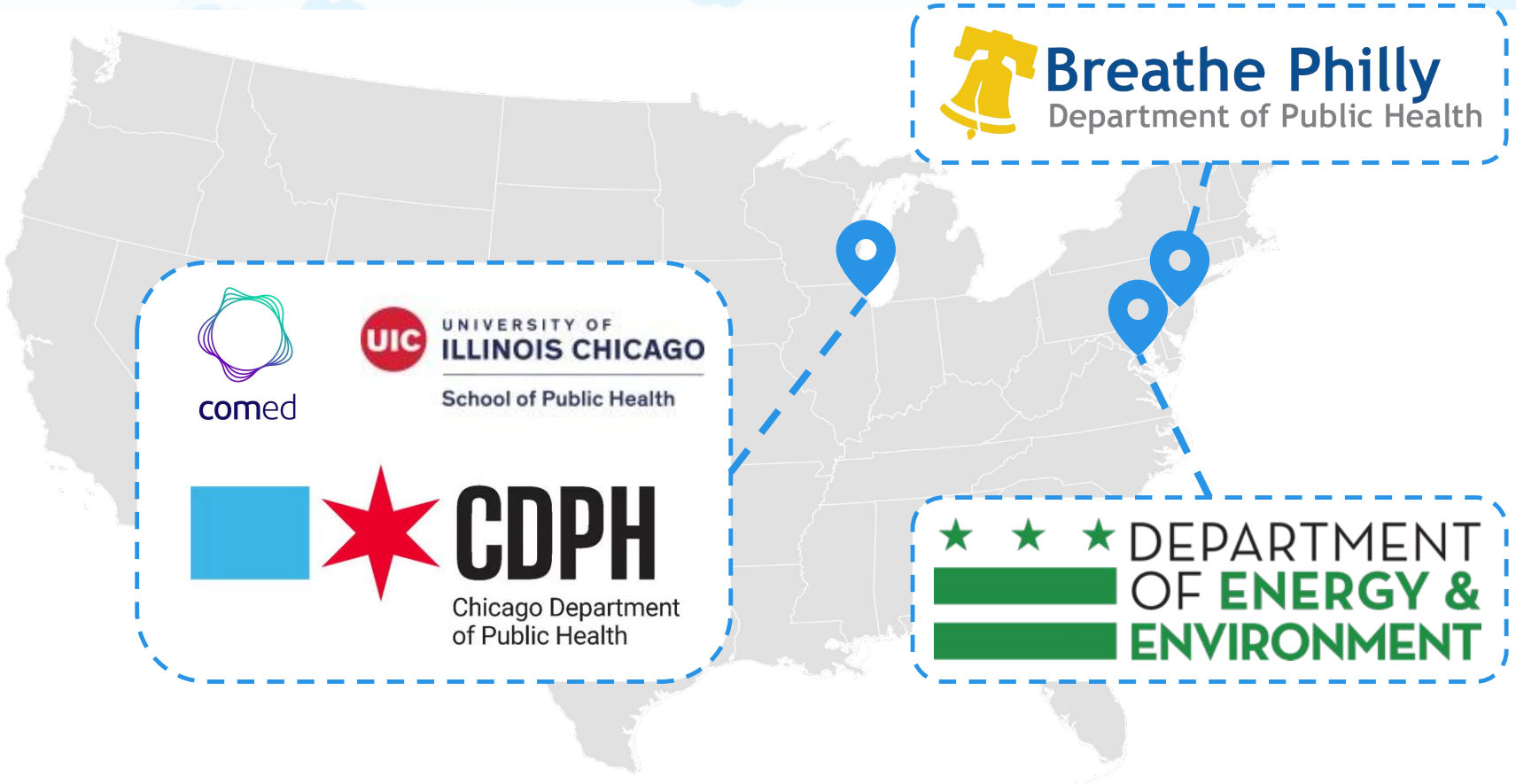


Open Air Chicago

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

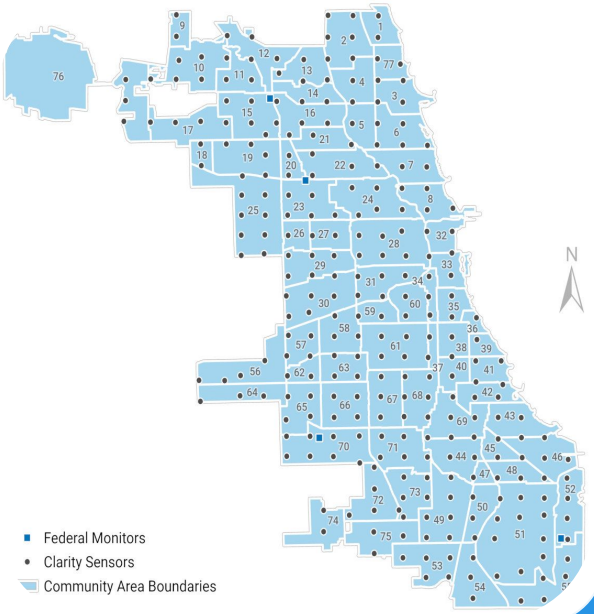
Action Enabled:

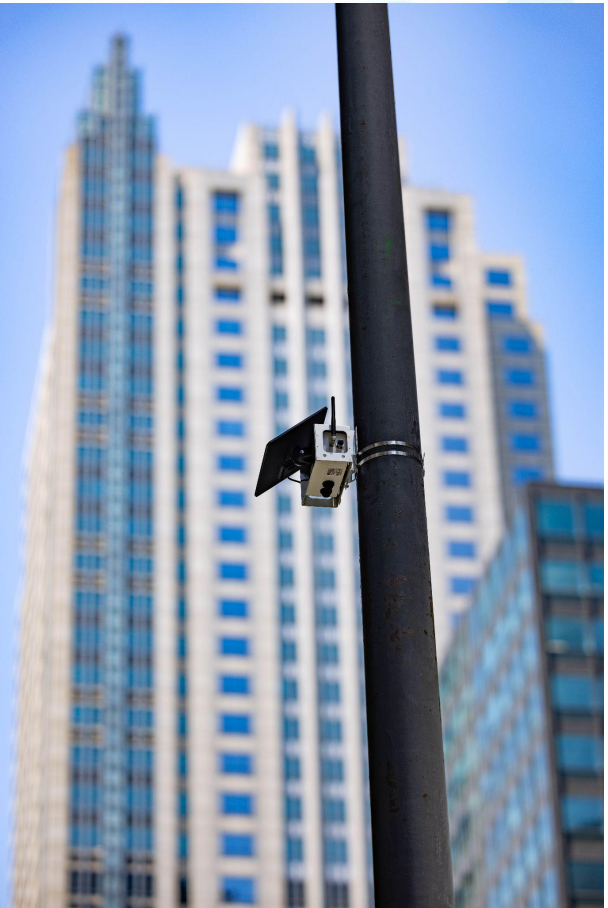
Collect data to guide targeted air quality interventions

CDPH
Chicago Department of Public Health

comed

UIC UNIVERSITY OF ILLINOIS CHICAGO
School of Public Health





WRIGLEYVILLE
WHERE FUN KNOWS NO BOUNDARIES
#WRIGLEYVILLE365
Wrigleyvillechicago.com

Breathe Philly

Philadelphia, PA, USA

Number of Clarity Nodes: **75+**

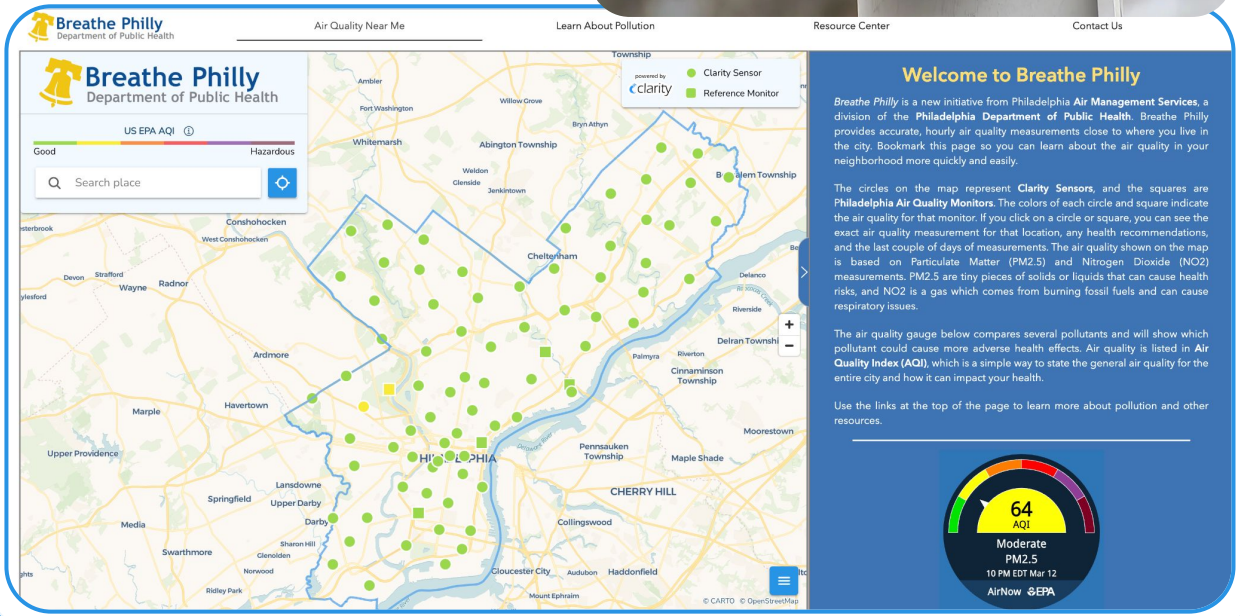
"This is what it looks like when government works. Breathe Philly ensures no matter your zip code, you have access to real-time information about the air you and your family are breathing. This is about transparency, environmental justice, and giving residents tools to protect their health.

Cherelle Parker
Mayor of Philadelphia

Action Enabled:

Provide local, real-time air quality data for citizens

City of Philadelphia
Department of Public Health



D.C. DOEE

Washington, D.C., USA

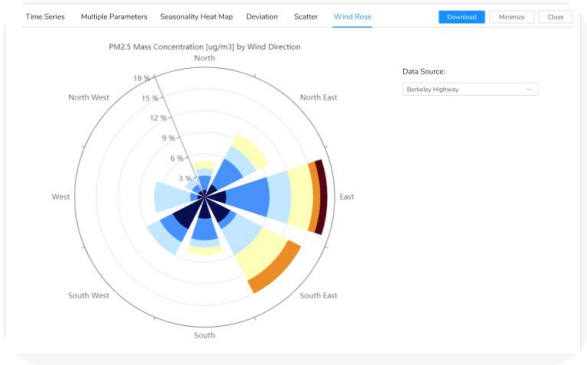
Number of Clarity Nodes: **45+**

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



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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

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Webinar & Panel Discussion

CDPH
Chicago Department of Public Health

DEPARTMENT OF ENERGY & ENVIRONMENT

Department of Public Health

Register here:

tinyurl.com/US-Cities-Sensors

Dust Module

Contact us for pricing!

Dust Measurement Suite

Available for pilots!

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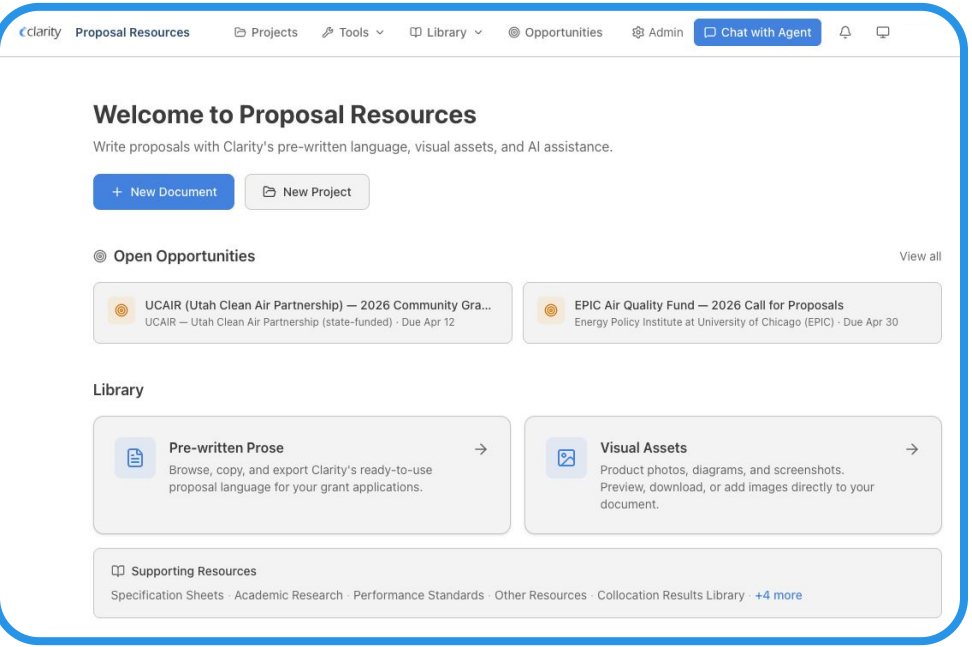

Proposal Tool

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