



AIR MONITORING

Clarity's turn-key solution for hyperlocal air quality monitoring empowers civic stakeholders and decision makers to build healthier communities with smarter data. Our high density network of stationary air quality sensors and toolbox of Cloud services expand upon existing monitoring stations to deliver ubiquitous spatial and temporal air quality insights transforming how cities understand and tackle air pollution.

FEATURES

- **MODULAR COMMUNICATION**
Cellular or Wi-Fi
- **REMOTE DATA ACCESS**
SmartCity webapp; real-time API
- **COMPREHENSIVE MONITORING**
PM₁; PM_{2.5}; PM₁₀; NO₂; Temperature; RH
- **RELIABLE PERFORMANCE**
IPX3; FCC/CE/WEEE Certified; UV resistant



01 DEPLOY

At the core of our technology is the Clarity Node. Each device contains a suite of sensors in a small, weatherproof shell and takes under 10 minutes to set up. We offer an externally powered Node or a fully wireless solar powered Node-S.

02 CALIBRATE

A scalable network of hundreds to thousands of Clarity Nodes upload data to Clarity Cloud in real-time, where our proprietary Smart Calibration technology uses region-specific algorithms to ensure data quality and significantly increases the usability lifetime of each device.

03 ACCESS

Users are able to retrieve the air quality data remotely in real-time via API or by logging into Clarity SmartCity. The secure web portal offers data visualizations and a download tool.



CASE STUDIES



California Air Resources Board
RICHMOND, CALIFORNIA

Quantify industrial emissions & address environmental injustice



City of Cupertino
CUPERTINO, CALIFORNIA

Detect transboundary sources & identify hotspots



City of Mexico, SEDEMA
MEXICO CITY, MEXICO

Design policies to reduce youth exposure to traffic emissions

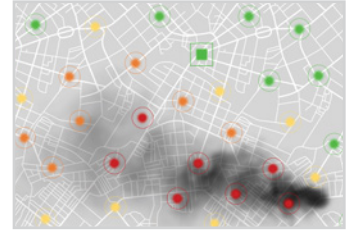


UN Habitat, City of Kuala Lumpur
KUALA LUMPUR, MALAYSIA

Evaluate effectiveness of green zone initiative

USE CASES

- Identify pollution hotspots
- Forecast pollution events
- Trace pollutant sources
- Target interventions
- Evaluate policy effectiveness
- Optimally allocate resources
- Quantify personal exposure
- Share air quality information
- Create high resolution maps



Identify Pollution Hotspots: High resolution snapshots of air pollution trends, sources, hotspots, and more.



Evaluate Policy Effectiveness: Quantifiable evaluation of air quality before and after policy implementation.

IMPACT

Since 2014, Clarity has been leveraging our expertise in air sensing technology, IoT devices, and data analytics to create accessible and actionable clean air solutions. We are deployed in 47 Cities across 28 Countries with more than 30 partnerships - 19 of those being government co-location partners that help us validate our technology.

