

CLARITY @ AIR SENSORS 2019

Market drivers for improving the performance of our solution

CLARITY AIR QUALITY MONITORING







01

CLARITY NODE

- Particulate Matter
- Nitrogen Dioxide
- Total VOC
- Temperature
- Relative Humidity

02

CLARITY CLOUD

- Sensor and reference air quality measurements repository
- Data quality assurance algorithms

03

CLAIRTY INSIGHTS

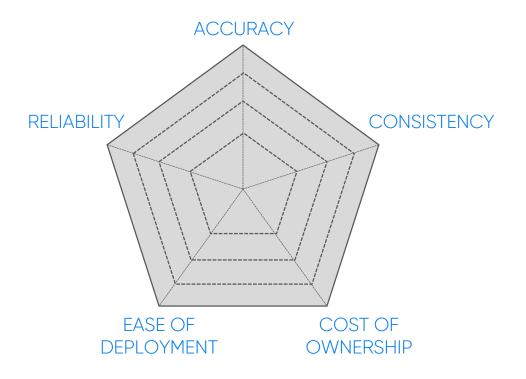
- Data visualization
- Data analysis
- Data download
- Data sharing
- Sensor network management



QUESTION

WHAT IS PERFORMANCE?

From a system perspective



ACCURACY

PROJECT LOCATION: Paris, France

DATA USE CASE: Exposure study and modelling

MAIN REQUIREMENT: Good accuracy













ACCURACY

PROJ DATA MAIN



CLARITY NODE-S

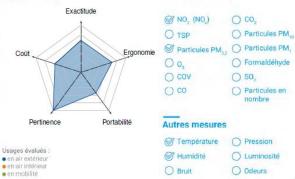
Usage pour lequel l'évaluation était la meilleure : surveiller la qualité de l'air extérieur

Avis du jury 2018

Ce capteur multi polluant est conçu pour mesurer la qualité de l'air extérieur. La qualité des données est satisfaisante pour le NO_2 et les $PM_{2.5}$. Un algorithme Smart Calibration est disponible, élaboré à partir du réseau de surveillance de référence. Il manque néanmoins les particules PM_{10} et l'ozone pour une surveillance en air extérieure plus complète. L'appareil est facile à installer, discret mais avec un design agréable, et la possibilité d'installer un panneau solaire est un plus. Il est toutefois important de bien lire préalablement la notice avant de configurer et de lancer la mesure. Quelques pertes de données ont pu être observées sur l'une des stations.



Évaluation Polluants mesurés









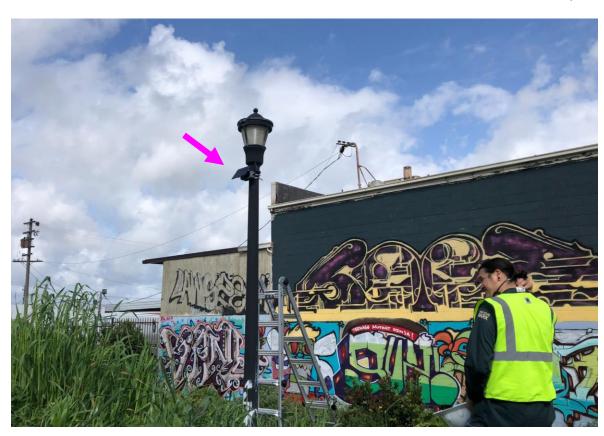


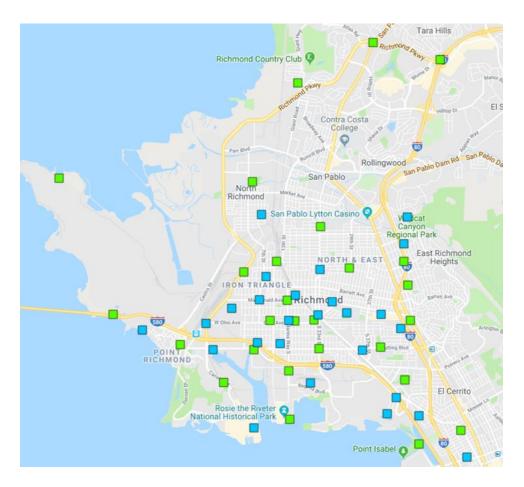


CONSISTENCY

PROJECT LOCATION: Richmond, CA DATA USE CASE: Hotspot detection

MAIN REQUIREMENT: Good device-to-device consistency









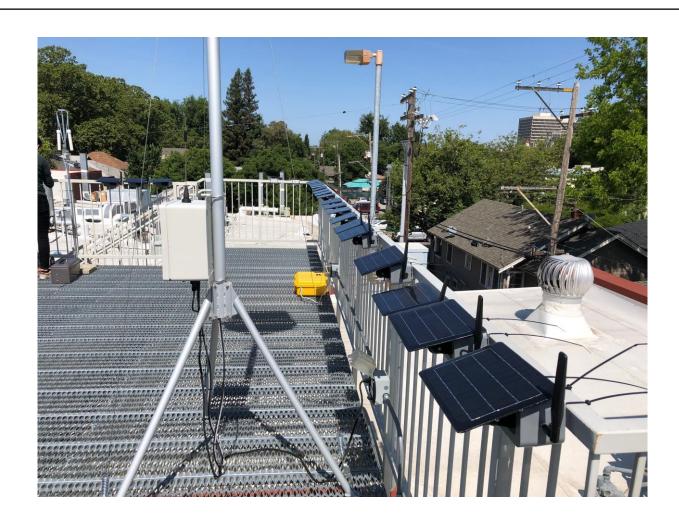


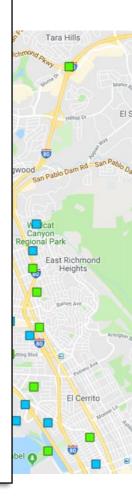


CONSISTENCY

PROJECT L DATA USE MAIN REQU









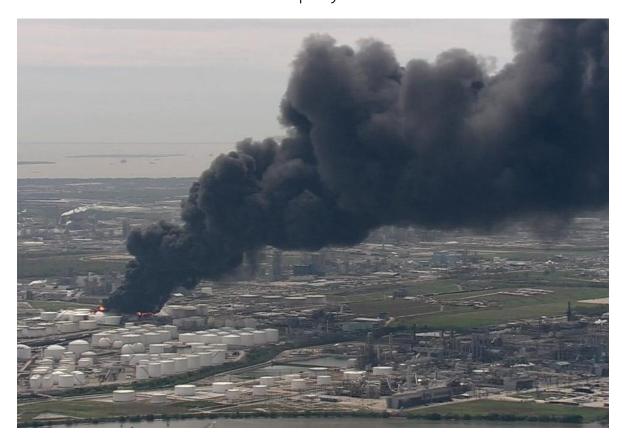


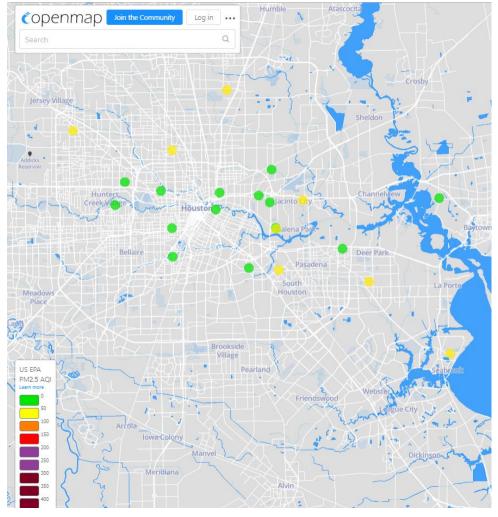




EASE OF DEPLOYMENT

PROJECT LOCATION: Houston, TX
DATA USE CASE: Emergency response
MAIN REQUIREMENT: Fast deployment







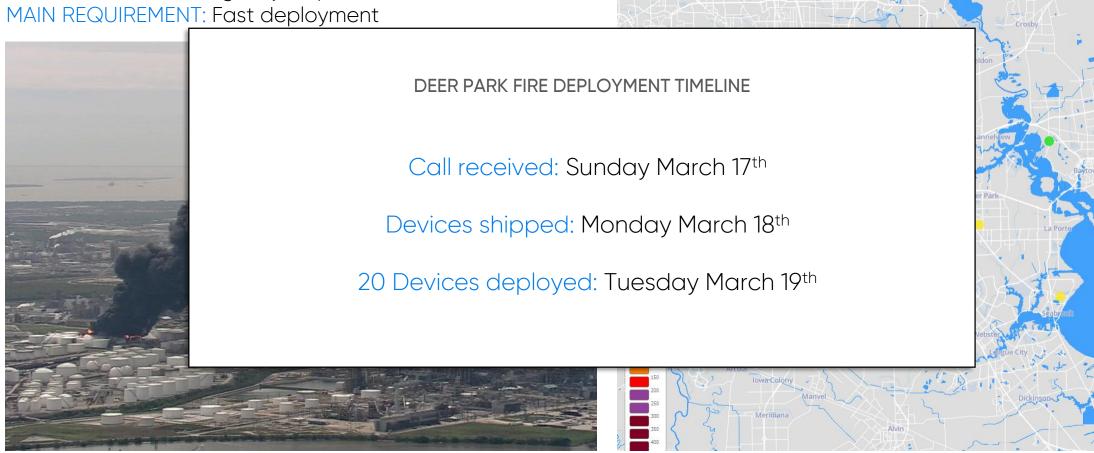


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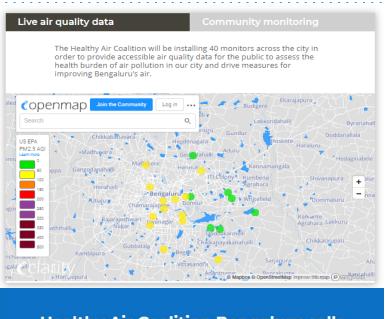


copenmap Join the Community

COST OF OWNERSHIP

PROJECT LOCATION: Bengaluru, India
DATA USE CASE: Awareness generation
MAIN REQUIREMENT: Low cost of ownership





Healthy Air Coalition Bengaluru calls for urgent action on air pollution.

Bengaluru's healthy air coalition, brings together health researchers, heart and lung doctors, public health institutes and patients, concerned about the health risks from Bengaluru's poor air quality. We come together to collaborate on air monitoring initiatives with different communities in the city; to share information and communicate about air pollution & health; to build the capacity of fellow health professionals; and to provide expertise input for air pollution control and reduction measures.

We invite doctors, public health practitioners, researchers, concerned patients and citizens to join the healthy air coalition in Bengaluru. Together, we can achieve air quality that remains within the



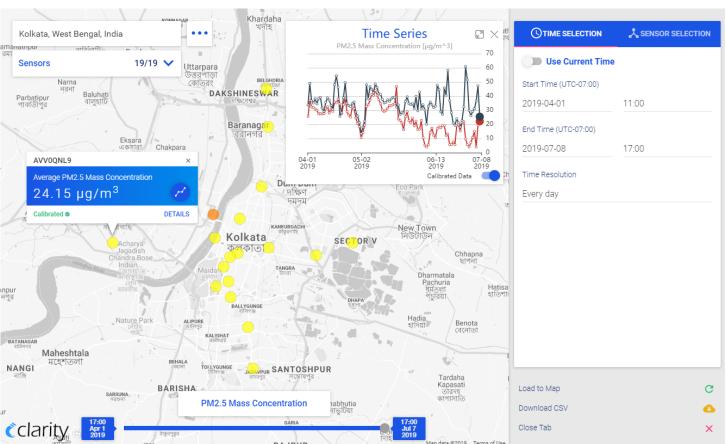




RELIABILITY

PROJECT LOCATION: Kolkata, India
DATA USE CASE: Policy impact analysis
MAIN REQUIREMENT: Reliability







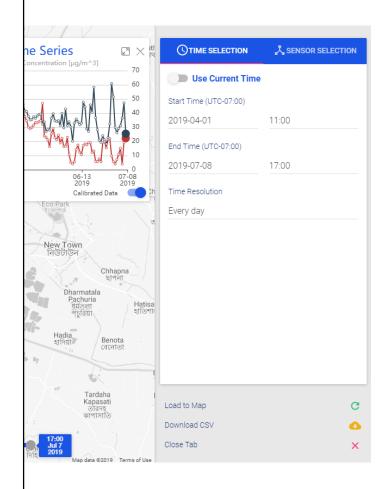
 Clarity

RELIABILITY

PROJECT LOCATION: Kolkat DATA USE CASE: Policy important Reliabi





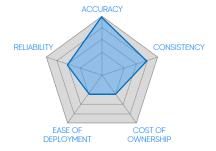


CONCLUSION

PERFORMANCE STANDARDS OF A SYSTEM

Depend on use case of generated data

EXPOSURE STUDY AND MODELLING



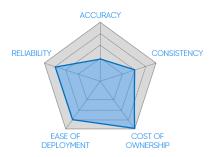
HOTSPOT DETECTION



EMERGENCY RESPONSE



AWARENESS GENERATION



POLICY IMPACT ANALYSIS







THANK YOU! LEARN MORE AT CLARITY.IO