

Democratizing Air Quality Data

WHY

Ambient air pollution causes **4.2 million deaths per year**.

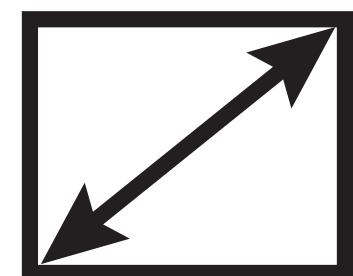
Every **20 seconds** at peak hour, an airplane lands directly over East Boston and Winthrop, releasing **harmful ultra fine particles**, putting the communities at high risk with **increased asthma rates**.



The nearest air quality monitors are at least **5 miles away** and are very **sparse**. While their data is very accurate, it is hard to access and is gathered too far to provide insight into East Boston's local air.

NOW

Existing stations are:



Large
About 1/4 of a football field

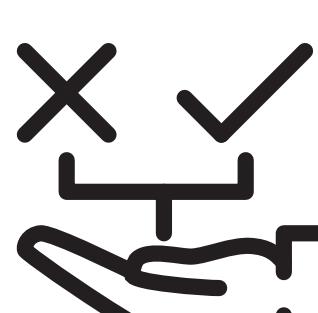


Expensive
>\$500,000 to install and maintain

Existing data is:



Hard to Access
AQI metric is most easily accessible, but obscures exposure relevant data



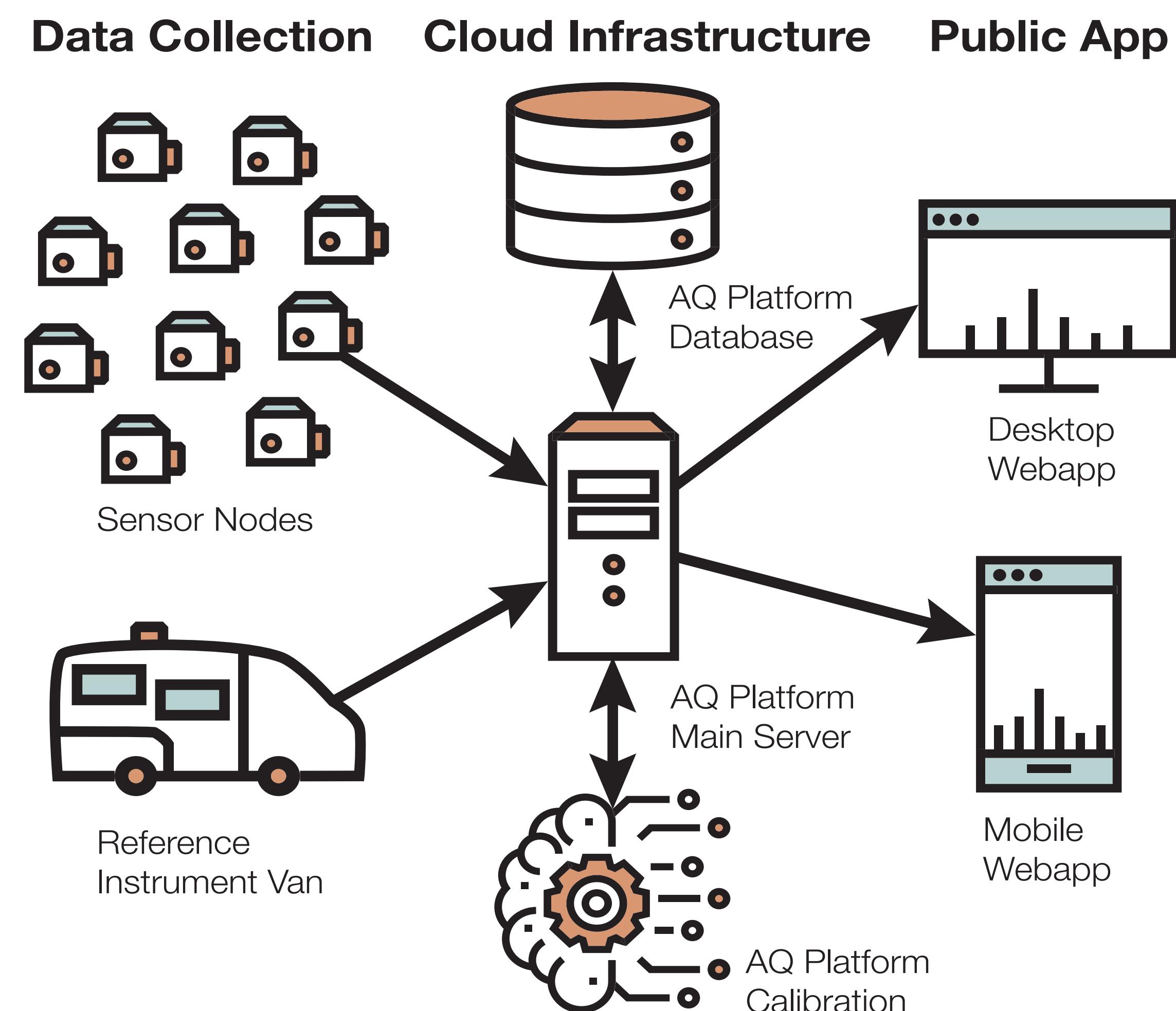
Not Actionable
Not enough time and spatial resolution for real-time decisions

no data available

WHAT

To empower citizens to make real-time health decisions about the air they breathe, we need to collect and analyze data with **more temporal and spatial resolution**

We built a dense **pilot network** with Aerodyne's small, low-cost air quality sensors and an Olin reference van



NEXT

The data is publicly available through an accessible, real-time interface. Citizens can stay **informed** and **act** on data. Researchers can **manage their own sensor networks**



Air Inc. will leverage the app to engage and activate the community



QuantAQ, a startup, will continue the platform's development and increase its capabilities



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