Project MAQ-NYC using LCAMs
Mapping Air Quality in NYC using
Low Cost Air Quality Monitors

>> What's in the air you breathe? Want to find out?

>> Want to assemble an air quality monitor?

>> Eager to map air quality in New York City?

>> Care to fight for environmental justice?

Come join us!

Image: Maye-E Wong/Reuters

Low-Cost Air Quality Monitors (LCAMs):

- **What are LCAMs?**: Affordable, user-friendly devices that measure air pollutants.

  - **Components**: Sensors for PM, CO_2, VOCs, temperature, and humidity.

    - **Benefits**: Accessible to communities, easy to use, and cost-effective.
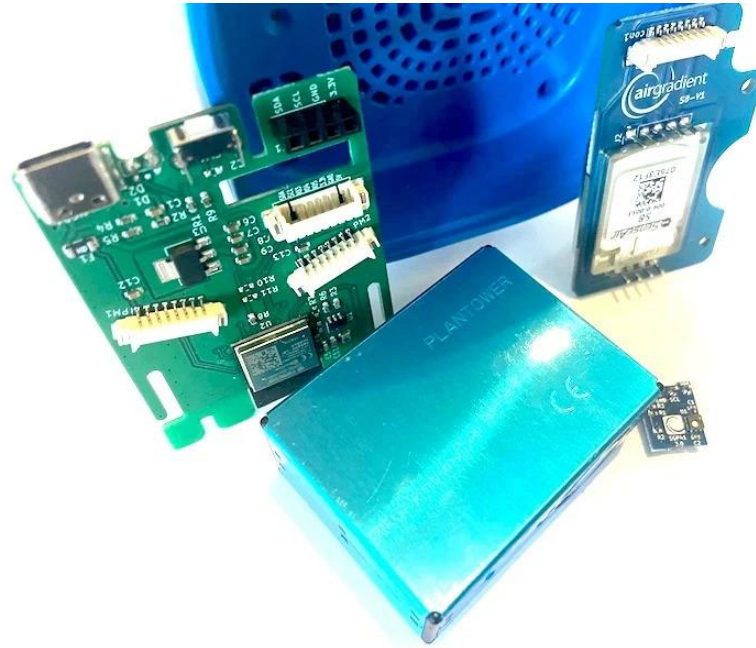
Key Concepts:

- **Air Quality**: The measure of pollutants in the air. Poor air quality can lead to health issues such as respiratory problems and cardiovascular diseases.

- **Low-Cost Air Quality Monitors (LCAMs)**: Devices that measure air pollutants like particulate matter (PM), carbon dioxide (CO_2), and volatile organic compounds (VOCs). They are affordable and accessible for community use.

- **Environmental Justice**: Ensuring that all communities, regardless of socioeconomic status, have access to a clean and healthy environment. The project addresses disparities in air quality that often affect marginalized communities.

What we will do:

Research & Assemble

Research interests: whether it's CO2, PM levels, chemicals, data analysis, or coding.

Assemble monitor: The monitors are designed to be end user-friendly, making assembly easy while providing valuable insights into how monitors are constructed.

Scan me for assembly instruction

What will we do:

Collect Data & Map AQ Data

- In teams we will walk around selected areas in NYC to collect AQ (Air Quality) measurements.

- Particulate Matter (PM), CO2, TVOCs, NOXm Temperature, and Humidity Monitoring are some of the data we measure using the AQMs.

- Mapping AQ data