
Air Pollution Monitoring Sensor Networks

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Overview

- Air Pollution
- Mapping Air Pollution
- Projects

Air Pollution?

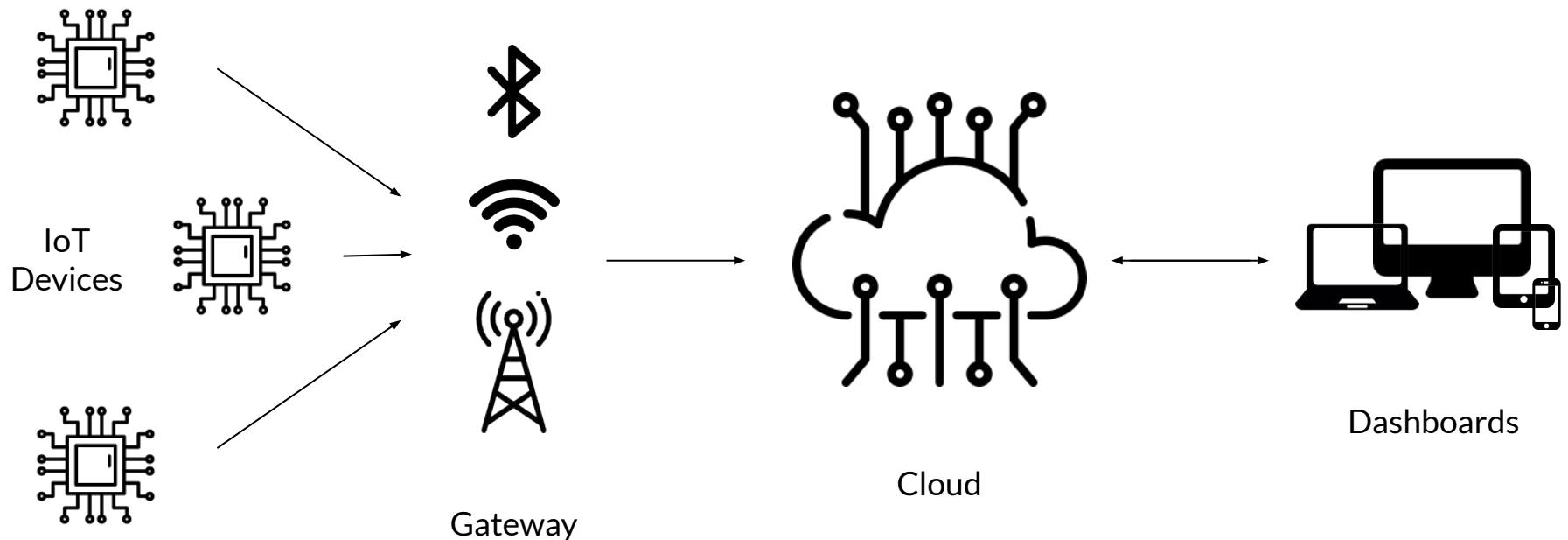
Air Pollution is a mixture of
hazardous gases and particulates
in the Atmosphere

8 million

Deaths worldwide are linked to air pollution every year

Mapping Air Pollution

Sensor Networks



Sensors



Particulate Matter



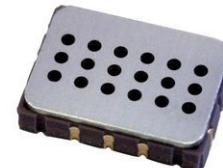
CO_2



Sound Level



VOC

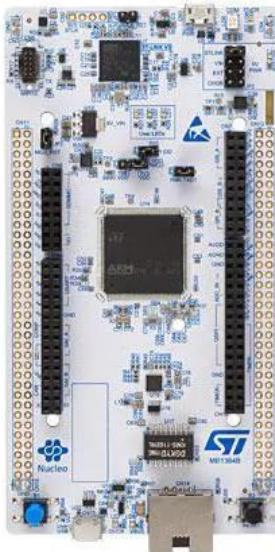


NO_2

Processing



Arduino



Nucleo



ESP32

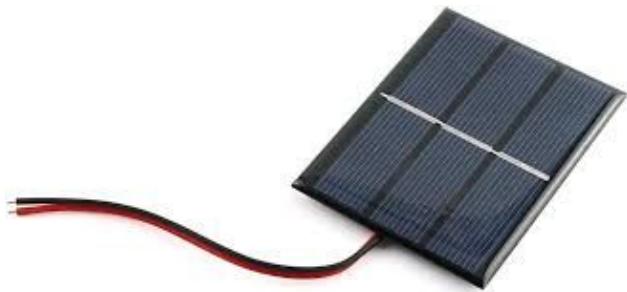
Power Supply



Lithium Polymer



Lithium Ion



Solar Cells

Network



Quectel GSM



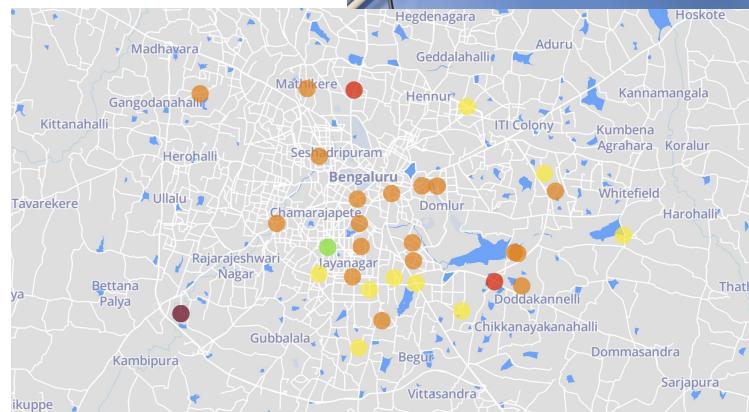
Zig Bee



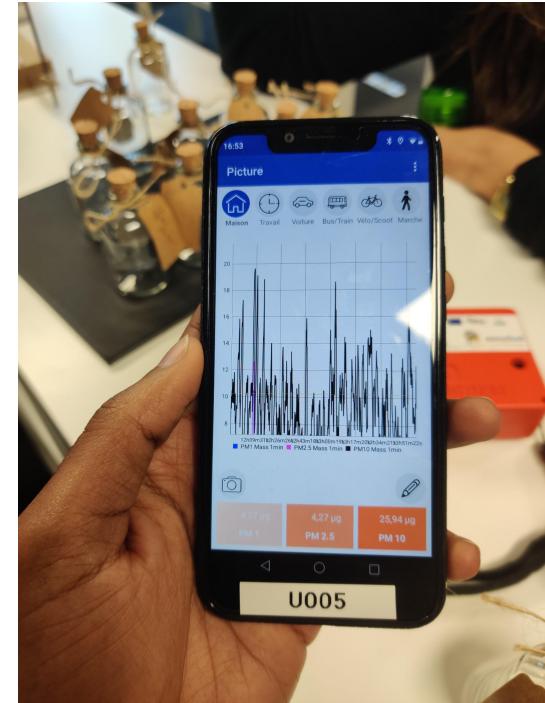
LoRaWAN

Projects

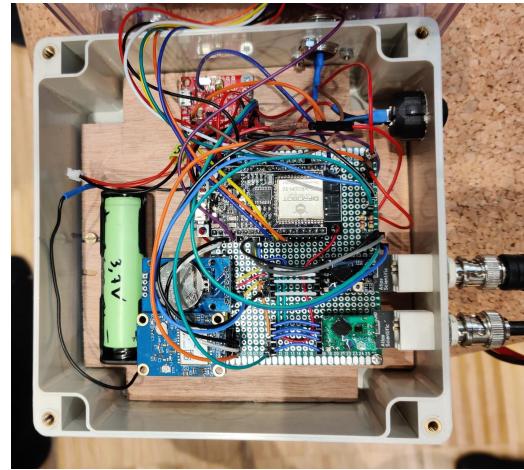
Unmask My City



DIAMS



Astrolabe Expeditions



Thank you!