

Big Picture

Problem

Challenge

Insight

Our Solution

Future Work



DEATHS LINKED TO OUTDOOR AND HOUSEHOLD AIR POLLUTION



7 million people die prematurely every year from air pollution – both household and outdoor.
Among these deaths:



21% are du

are due to pneumonia



20% from stroke



34% from ischaemic heart disease



19% from chron obstructive pulmonary disease (COPD)



7% from lung ca

CLEAN AIR FOR HEALTH

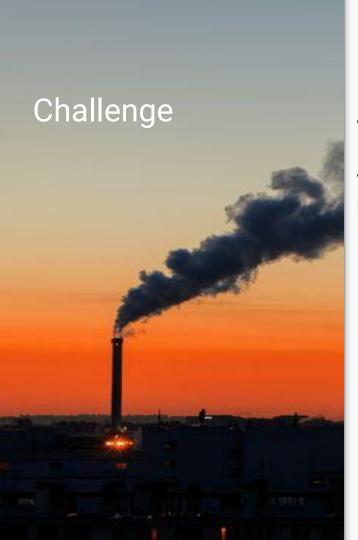
#AirPollution





Lack of awareness about air quality parameters

Limited interest in air quality patterns

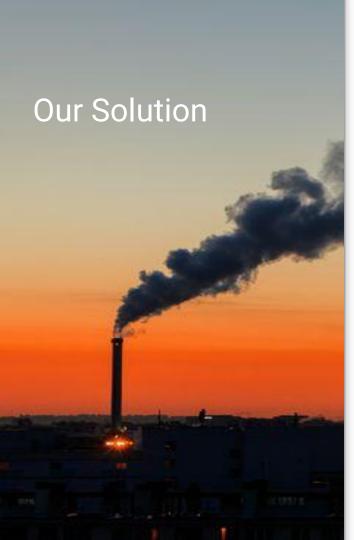


Air quality level not immediately perceived by people

Action to improve air quality reactive rather than
preventive



Existing sensors can be used to leverage data to observe air quality patterns



Data from U.S. Environment Protection Agency

Graphical representation of air quality level across sites in 2 cities - San Diego and Los Angeles

Monitoring air quality as level of Carbon Monoxide in parts per million (ppm)

Total level of CO

Across all days of the week



https://micromec.org/hack/Paulpo pking_5GHackathon/



Similar analytics for other standard pollutants - Sulphur Dioxide, Nitrogen Oxides, Ozone

Scope for targeted city-specific solutions

Alert generation during anomalies and emergencies