AirSential

Advanced Smart Device for Air Quality Monitoring, Gas Leak Detection, and Emergency Response

–– Safeguarding Respiratory Health with Intelligent Hazard Prevention

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WHY ?

Air pollution harms health, causing respiratory and heart diseases, and leads to millions of premature deaths. It damages ecosystems, accelerates climate change, and threatens biodiversity. Economically, it strains healthcare, reduces productivity, and harms crops. If left unchecked, it causes irreversible environmental and societal damage.

WHEN ?

Waiting for the "correct time" to act against air pollution and environmental degradation only accelerates destruction and extinction. The impacts are already visible, with rising global temperatures, biodiversity loss, and increasing health crises. Procrastination allows problems to grow beyond control, threatening ecosystems and humanity's future. Immediate, collective action is essential to prevent irreversible damage and secure a livable planet for future generations. The time to act is now.

WHO ?

National Governments ?
Local Governments ?
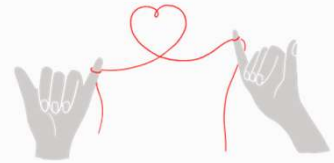International Organizations ?
Non-Governmental Organizations (NGOs) ?
World Health Organization (WHO) ?
United Nations (UN) ?
Media ?
Communities ?

or is it YOU ?

WHERE ?

Start by taking action in your home and immediate surroundings to reduce air pollution,
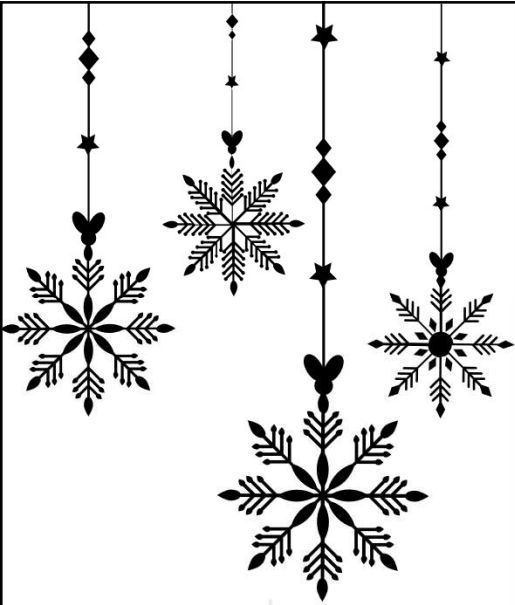
HOW ?

- Promoting Clean Transportation
    - --Bike-Sharing Programs
    - --Car-Free Days
- Tree Planting Initiatives
    - --Urban Green Spaces
    - --Urban Forests
- Waste Management
    - --Recycling Programs
    - --Ban on Open Burning

- Local Clean Energy Projects
  - -- Solar Villages
  - -- Microgrid Projects
- Awareness Campaigns
  - -- Community-Led Education
- Local Air Quality Monitoring

Several IOT projects are present for air quality detection and gas leakage

however it is very expensive and one device performs only one specific function and is not very efficient.

Therfore,,i aim to create one device that can perform all functions and is affordable by a common man

WHAT ?

This advanced device is designed to assist individuals with respiratory illnesses while enhancing safety in homes and offices. It features real-time air quality monitoring and gas leak detection, with intelligent systems to differentiate between harmless smoke (such as from incense or cigarettes) and dangerous smoke or gas leaks. Equipped with a small camera for human face detection and integrated smoke and gas alarms, the device covers large areas efficiently. It can automatically alert authorities in case of prolonged hazardous gas levels or fire emergencies, ensuring timely intervention.

FUNCTIONS OF MY DEVICE

- SENSOR TO DETECT AIR QUALITY AND CONTENTS PERCENTAGE WISE
  O_2-% CO_2-% ETC
- LIGHT FOR INDICATION (RED YELLOW GREEN)
- DISPLAY AIR QUALITY
- ALARMING SYSTEM IN CASE OF FIRE
- LARGE RADIUS
- CAN TELL THE DIFF BETWEEN ACTUAL SMOKE AND A PERSON SMOKING
- WIFI CONNECTIVITY
- RUNS ON BATTERY FOR POWER SUPPLY
- ECONOMICAL
- ALL COMBINED IN ONE SINGLE DEVICE THAT CAN BE HANGED ON THE WALL

Thank You !