

# **AIR QUALITY MONITORING**

## **Introduction:**

- Air quality monitoring is the process of measuring and assessing the levels of air pollutants in the atmosphere. This information is used to protect public health, the environment, and to develop and implement effective air quality management strategies.

## **Problem:**

- Air pollution is a major environmental problem that has a significant impact on human health and the environment. According to the World Health Organization (WHO), air pollution is responsible for an estimated 7 million deaths each year. It is also a major contributor to climate change and other environmental problems.

## **Solution:**

- Air quality monitoring is essential for understanding the levels of air pollution in a given area and for developing and implementing effective air quality management strategies.

### **Air quality monitoring systems can be used to:**

- Identify the sources of air pollution
- Track the levels of air pollutants over time
- Assess the impact of air pollution on public health and the environment
- Develop and implement effective air quality management strategies.

## **Conclusion:**

- Air quality monitoring is an essential tool for protecting public health and the environment. By measuring and assessing the levels of air pollutants in the atmosphere, air quality monitoring systems can help to identify the sources of pollution, track the levels of pollutants over time, assess the impact of pollution on public health and the environment, and develop and implement effective air quality management strategies.
- In addition to the traditional air quality monitoring stations, new technologies are emerging that offer more affordable and scalable solutions for air quality monitoring. For example, the Internet of Things (IoT) is being used to develop air quality monitoring systems that are smaller, cheaper, and easier to deploy. These new systems can be used to collect data from a wider range of locations, providing a more comprehensive picture of air quality in a given area.

- Air quality monitoring is an essential tool for protecting public health and the environment. By investing in air quality monitoring systems, we can better understand the problem of air pollution and develop and implement effective