

# Environmental monitoring in parks

*Phase-1*

# Objective

- **Environmental monitoring in parks is important to ensure the health of the ecosystem and the safety of visitors. A module for environmental monitoring in parks can provide a set of tools and resources for park managers to collect and analyze data on key environmental parameters, such as air quality, water quality, and noise levels. This data can be used to identify and address environmental problems, track trends over time, and make informed decisions about park management.**

- **A module for environmental monitoring in parks could include the following components:**

### Sensors:-

A variety of sensors can be used to monitor environmental parameters in parks, such as air temperature and humidity, wind speed and direction, rainfall, water quality parameters, and noise levels.

### Data transmission:-

The data collected by the sensors needs to be transmitted to a central location for processing and analysis. This can be done using a variety of methods, such as wired or wireless communication,

### Data analysis:-

The data collected from the sensors needs to be analyzed to identify trends and patterns. This can be done using a variety of data analysis tools and techniques.

### Visualization:-

The analyzed data needs to be visualized in a way that is easy to understand and interpret. This can be done using charts, graphs, and other visual tools.

- **The module for environmental monitoring in parks could be used to address a variety of challenges, such as:**

### Air quality:-

The module can be used to monitor air quality in parks and identify sources of air pollution. This data can be used to develop strategies to improve air quality in parks.

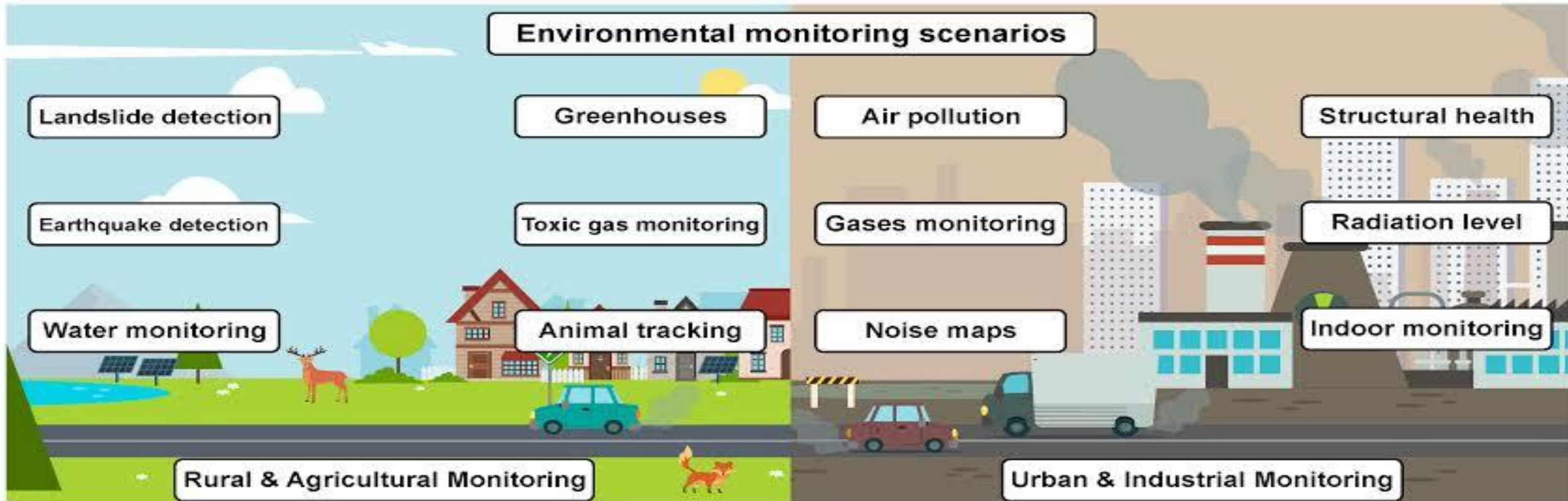
### Water quality:-

The module can be used to monitor water quality in ponds, lakes, and streams in parks. This data can be used to identify sources of water pollution and develop strategies to protect water quality.

### Noise levels:-

The module can be used to monitor noise levels in parks. This data can be used to identify areas where noise levels are too high and develop strategies to reduce noise levels.

## Environmental monitoring scenarios:-



## Conclusion:

A module for environmental monitoring in parks can be a valuable tool for park managers to ensure the health of the ecosystem and the safety of visitors. By collecting and analyzing data on key environmental parameters, park managers can identify and address environmental problems, track trends over time, and make informed decisions about park management.