# Waste Fire Detection

## SDAIA T5

# Outlines

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# Question

# Introduction

Waste fires harm the environment by releasing pollutants into the air that worsen climate change and contaminate soil and water.

- Emissions
- Net Zero by 2060
- Air Quality

# Problem statement

Limited Coverage Area

Response Time Delays

Inefficiency in Remote Areas

# Proposed solution

Autonomus Drones

Computer Vision

Real-Time Monitoring

Geospatial Coordination

# Features

### #1 Early Detection

The system should detect the presence of smoke and fire as early as possible.

### #2 Real-Time Monitoring

The system should provide real-time monitoring and situational awareness.

### #3 Mobility and Coverage

Drones should be able to navigate difficult-to-reach areas.

# Implementation Phases

# Feature Work

Improve model performance

Identify various environmental violations