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## WHAT IS SPACE GUARDIAN AI?

Space Guardian AI is a geospatial intelligence platform that transforms Sentinel satellite data into practical, location-specific insights

Using multispectral, radar and thermal imagery, the system identifies risks areas and provides early warnings, prioritization maps and preventive action recommendations



## SPACE GUARDIAN

## SATELLITE- POWERED ENVIRONMENTAL INTELLIGENCE FOR EARLY RISK PREVENTION

# WHY SPACE GUARDIAN AI?

Wildfires are increasing in frequency and intensity across Europe.

Local governments need reliable, cost-efficient tools to anticipate risk —not only react

Sentinel-based analysis provides objective, geographically consistent insights unavailable from local sensors alone.

*“Space Guardian AI converts complex Earth Observation data into clear preventive actions”*

# OUR MVP: RISK PREDICTION

The first release of SPACE GUARDIAN AI focuses on wildfire prevention using sentinel-1, sentinel-2 and sentinel-3 data, the platform identifies:

- ◆ Vegetation dryness
- ◆ Fuel Load and land cover changes
- ◆ Heat accumulation patterns
- ◆ Terrain accessibility and risk propagation
- ◆ Priority zones for preventive interventions

-  Vegetation
-  Slope
-  Assets

All models are trained with historical fire events and validated using environmental and meteorological datasets

# HOW IT WORKS?

Sentinel Imaginary

Step1

Step2

Unified processing pipeline

Step3

AI risk model

Step4

Actionable recommendations

Our AI engine combines optical, radar and thermal data to generate dynamic risk maps.

Outputs include:

- Daily risk scoring
- Preventive action suggestions
- Impact estimations if no action is taken
- Exportable GIS layers and API integration

Built for small and big agencies that need clarity, speed and operational simplicity.

