

## SAFERS at a glance

Forest fires are exacerbated by extreme weather conditions, which are increasing both in frequency and in magnitude due to **climate change**. Globally, massive fires have swept through forests and other landscapes at an alarming rate, resulting in the loss of human lives, destruction of homes and biodiversity in addition to various destructive impacts.

In order to support societies in becoming more **resilient** when acting against forests fires, the SAFERS project is going to develop an **open platform** which integrates several data sources (Earth Observation data and services offered by the EU Copernicus programme and GEOSS, crowdsourced data from social media and from other applications used by citizens and emergency staff as well as real-time data provided by accurate sensors to detect smoke or fires) and transform them into **actionable information** and services.

SAFERS project officially started in October 2020 for a period of 3 years (2020-2023) and with a budget of 3.25 million euros. It is coordinated by LINKS foundation and brings together **14 partners** coming from 7 European countries.

## Partners



ASTROSAT



CERTH  
CENTRE FOR  
RESEARCH & TECHNOLOGY  
HELLAS



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cim4  
RESEARCH  
FOUNDATION



waterview

## The project in numbers



7  
EU countries

Italy • Greece • Germany  
France • Finland • UK • Spain



1 open platform  
for forest fire management



3.25  
Million €

Co-funded by the European Union



3  
years

From 2020 to 2023

## Find out more



[www.safers-project.eu](http://www.safers-project.eu)

SAFERS project

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# SAFERS

Structured Approaches for  
Forest fire Emergencies  
in Resilient Societies

[www.safers-project.eu](http://www.safers-project.eu)

# Key information provided by cutting-edge technology

SAFERS relies on multiple technologies to gather large amounts of data and processes it with **Artificial Intelligence** algorithms to create novel services and data driven solutions, including a comprehensive **Emergency Management System**.

## In every phase of the emergency cycle

### BEFORE:

It anticipates the forest fire by developing **risk maps** thanks to the coupled use of Earth Observations, weather forecasts, topographic data as well as open data.

### DURING:

It relies on **fire sensors** and cameras placed in forests for improved **early warnings**.

It creates **fire delineation maps** and predicts the fire evolution, providing effective decision support to first responders.

### AFTER:

It monitors the soil and vegetation recovery to **estimate biodiversity and economic losses**.

To test the system, there will be **four demonstrations** (in Italy, Spain, Greece and France) where all the actors of the emergency management will be involved.

## For a resilient society

This project aims to involve all stakeholders who act around the key phases of the emergency management cycle, including **citizens** as well as **emergency practitioners**. SAFERS analyses **social media** posts and integrates the crowdsourced data to enhance the capabilities of delineation and forecasting models. An intelligent Chatbot will allow citizens to provide **geolocated real-time information** about in-field conditions. The Chatbot will be also used to **raise awareness** and to enhance self-protective behaviours among citizens.

