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Project Facts

Work programme:

Horizon 2020

Duration

42 months | Starting from
1 December 2021

Total cost

€ 22.918.035,01

Coordinator:

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**A Holistic Fire Management Ecosystem
for Prevention, Detection and Restoration
of Environmental Disasters**



The project

The TREEADS project will adopt a holistic forest fire management and an adaptive, collaborative governance approach based on the deployment of a new systemic and technological framework covering all three interconnected fire management stages.

ADVANCED SUPPORTING TECHNOLOGIES

TREEADS computational system is supplemented by state-of-the-art technologies regarding monitoring, safety, evacuation, prediction,

3D

Forest 3D mapping: 3D models of the current state of the forest which provide info about plant and tree species and their physical characteristics

Hotspot early detection, fire and smoke spread analysis and simulation



Resilient Materials for key infrastructures and residential buildings for increased fire safety in high-risk areas

Four layered approach: Low and Medium altitude UAVs, airship for high altitude tasks and satellite data



Advanced restoration techniques: restoration of ecological balance, seed container capsules, development of a decision support system for adaptive postfire management

Infrastructure fire emergency management strategy, risk analysis and transfer solutions



Pilot Activities

All TREEADS technologies will be tested and validated in real-life simulations covering all three stages of fire management.

1

**Prevention
& Preparedness**

2

**Detection
& Response**

3

**Restoration
& Adaptation**

TREEADS pilot use cases will be performed in seven European countries as well as Taiwan by a significant number of end users.

Taiwan

Fire resistance materials

Norway

Wildfires in Northern Europe

Germany

Fire science of wildfires and safety measures

Austria

Peri-urban wildfire

Romania

Wildfire in a National Park

Spain

Wide Area Wildfires

Italy

Cable car system in the Sorrento Peninsula

Greece

Human and Animal Evacuation

