



## Stay in Contact



<https://treeads-project.eu>



@TREEADSH2020



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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:

RISE FIRE  
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## Consortium



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



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## 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, restoration and training activities:

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.

