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DryadsH2020



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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
RESEARCH
AS

Kemal S. Arsava

RISE Fire Research AS

Project Coordinator

kemal.sarp.arsava@risefr.no

Pantelis Velanas

ACCELIGENCE Ltd

Dissemination &
Communication

Manager

pvelanas@accelligence.tech

Consortium



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



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The project

The DRYADS 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

DRYADS 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 DRYADS 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

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

