

Consortium

17

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Organisations European countries

-  University of Padua
-  Telespazio France SAS
-  University of Copenhagen
-  National Research Council
-  European and Mediterranean Plant Protection Organisation
-  Swiss Federal Institute for Forest, Snow and Landscape Research
-  Ukrainian National Forestry University
-  European Institute of Planted Forest
-  Linnaeus University
-  Karlsruhe Institute of Technology
-  National Research Institute for Agriculture, Food and Environment
-  EFOS Information Solutions D.O.O.
-  Slovenian Forestry Institute
-  Museum für Naturkunde - Leibniz Institute for Evolution and Biodiversity Science
-  Forest Research Centre
-  National Institute for Agricultural and Veterinary Research
-  Pensoft Publishers

FORSAID

Duration

September 2024 – February 2028

Project coordinator

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Follow FORSAID's journey

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FORSAID



Introducing

New technological horizons for monitoring forest pests and pathogens

Why? The background

Forests under pressure

As a result of globalisation and climate change, biotic stressors like pests and pathogens increasingly affect forest ecosystems by endangering the health of tree populations.

New standard needed

The EU's efforts to regulate such harmful species must be complemented by greater efficiency of tools and technologies for managing the threat on the ground.

What? The vision

Detection. Monitoring. Assessment.

Addressing this challenge, FORSAID works towards a comprehensive strategy for early identification of forest pests and pathogens. This endeavour is centred around innovative digital solutions that are developed in accordance with stakeholder needs and market realities.

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How? The objectives

Four guiding aims



Enhancing remote sensing

Early detection and surveillance for select EU-regulated forest pests



Improving automated ground detection

Experimental testing of AI-assisted instruments for robotic DNA barcoding



Harnessing citizen science

Contributions via new common-use tools and approaches



Streamlining management

A proposed framework for comprehensive monitoring grounded in innovation

Technologies in focus



Satellite systems



AI models



DNA barcoding



Drone devices



Automated insect traps

Target species of FORSAID

The solutions developed in the project are to address the spread of the following EU-regulated forest pests and pathogens:

Insects

Bronze birch borer **Emerald ash borer**

Agilus anxius

Agilus planipennis

Oak lace bug

Corythucha arcuata

European spruce bark beetle

Ips typographus

Pine processionary moth

Thaumetopoea pityocampa

Oak processionary moth

Thaumetopoea processionea



Fungi

Canker stain disease

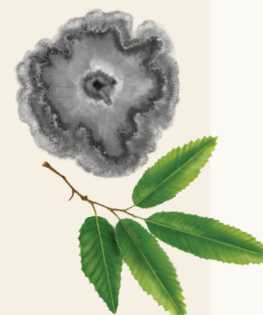
Ceratocystis platani

Chestnut blight

Cryphonectria parasitica

Pine pitch canker

Fusarium circinatum



Nematodes

Pine wood nematode

Bursaphelenchus xylophilus

