HOMED

HOLISTIC MANAGEMENT OF EMERGING FOREST PESTS AND DISEASES
homed-project.eu

The HOMED (HOlistic Management of Emerging forest pests and Diseases) project was created with the goal to develop a full panel of scientific knowledge and practical solutions for the management of emerging native and non-native pests and pathogens threatening European forests.

For the past four years, over 50 scientists, experts and stakeholders from 22 partner organisations cooperated in order **to improve the existing strategies of risk assessment and management by targeting the successive phases of invasion, and developing mitigation methods for each phase: risk analysis, prevention/detection, surveillance, eradication/containment, and control**.
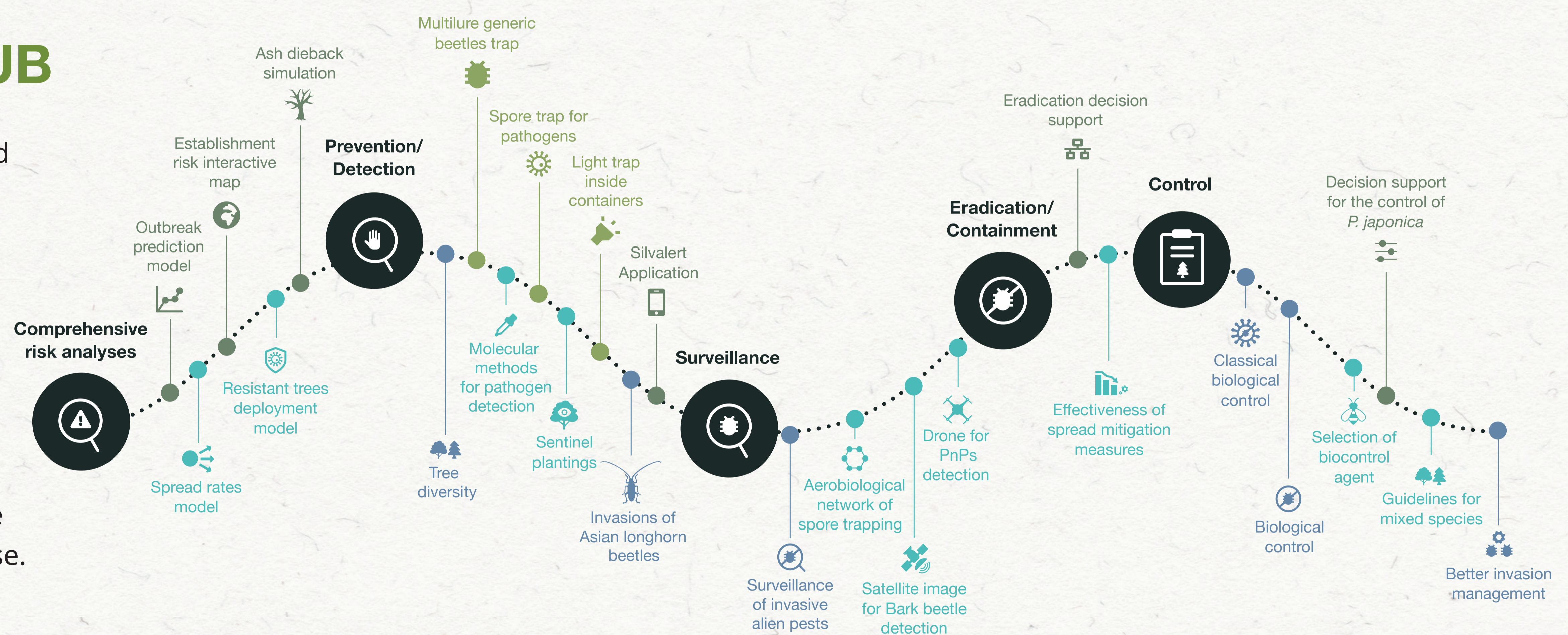
PROJECT COORDINATOR

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DURATION

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HOMED'S KNOWLEDGE HUB

In order to transfer the generated knowledge and help forest stakeholders in the management of emerging and invasive forest pests and pathogens, HOMED developed its own Knowledge Hub. There, you can follow the path of emergence or invasion and find out the available tools and information developed in the project and adapted to each phase.

Knowledge Hub pathway diagram with phases:

Comprehensive risk analyses
- Outbreak prediction model
- Establishment risk interactive map
- Spread rates model
- Resistant trees deployment model

Prevention/Detection
- Ash dieback simulation
- Multilure generic beetles trap
- Spore trap for pathogens
- Light trap inside containers
- Silvalert Application
- Molecular methods for pathogen detection
- Sentinel plantings
- Tree diversity

Surveillance
- Invasions of Asian longhorn beetles
- Surveillance of invasive alien pests
- Aerobiological network of spore trapping
- Satellite image for Bark beetle detection
- Drone for PnPs detection

Eradication/Containment
- Eradication decision support
- Effectiveness of spread mitigation measures

Control
- Decision support for the control of *P. japonica*
- Classical biological control
- Selection of biocontrol agent
- Biological control
- Guidelines for mixed species
- Better invasion management

You can access the Knowledge Hub via the QR code. There you can click on the icons to find the right materials for your needs: online tools with an interactive interface, descriptive sheets of developed prototypes, graphical abstracts popularising scientific results and policy briefs providing policy recommendations.

PARTNERS

- National Research Institute for Agriculture, Food and the Environment (INRAE)
- Alliance Forêt Bois (AFB)
- CAB International (CABI)
- Institute of Zoology, Chinese Academy of Science (CAS)
- Commonwealth Scientific and Industrial Research Organisation (CSIRO)
- National Research Council (CNR)
- Coventry University (CU)
- Swiss Federal Institute for Forest, Snow and Landscape Research (WSL)
- European Forest Institute (EFI)
- INRA Transfert (IT)
- School of Agronomy – University of Lisbon (ISA)
- Mendel University in Brno (MEND)
- New Zealand Forest Research Institute Limited (SCION)
- Pensoft Publishers (Pensoft)
- Royal Horticultural Society (RHS)
- Swedish University of Agricultural Sciences (SLU)
- Telespazio (TPZF)
- The University of Queensland (UQ)
- University of Padua (UNIPD)
- University of Pretoria (UP)
- Wageningen University (WU)
- United States Forest Service (USDA FS)