

# Anoplophora longhorn beetle detection and risk management (ANOPLORISK I)



Anoplophora chinensis (ANOPLORISK) - https://doi.org/10.1000/182

## Funding

Non-competitive funding mechanism. Each funder only pays for the participation of their own national researchers. Total funding: 565 000 €.

## Research consortium

Fera-UK, PPS-NL, BFW-AT, AGES-AT, MPAF-IT, JKI-DE, ILVO-BE

## Contact information

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## Goals

- Research is needed to address the following policy and science objectives related to *Anoplophora chinensis* and *A. glabripennis*:
- Provision of validated, non-destructive detection tools for use by inspection services for a range of material, e.g. imported plants as well as large mature trees.
- Development of risk management approaches and policy (contingency plans, management options, legislation) in the event of outbreaks, based on sound science and tailored to specific commodity types.
- Improved understanding of potential risks and impacts.

## Key results and outputs

The project would mainly support the development of risk management approaches for *Anoplophora* species (*A. chinensis* and *A. glabripennis*), and to a lesser extent inform risk assessments, including:

- **Detection:** Development, optimisation, validation and comparative evaluation of various non-destructive detection methods, for detecting volatiles, for in-field use by inspection services and on a range of host material, i.e. imported host plants (young saplings as well as bonsai plants) and large mature trees in the environment
- **Diagnosis:** Methods to determine the origin and age of outbreaks may also be considered, e.g. further evaluation of methods for dendro-chronological dating of exit holes
- **Dispersal:** Research that supports scientifically robust measures at outbreaks in relation to dispersal potential, e.g. information on potential extents and rates of spread under different scenarios that may inform surveying, monitoring, establishment of buffer zones and legislation.
- **Treatments:** investigations into the efficacy of trunk injections of systemic insecticides, with appropriate delivery systems,
- **Lifecycles under European climates:** Applying biological and other lifecycle-related work that may inform risk assessments and the development of policy in relation to risks and potential impacts