

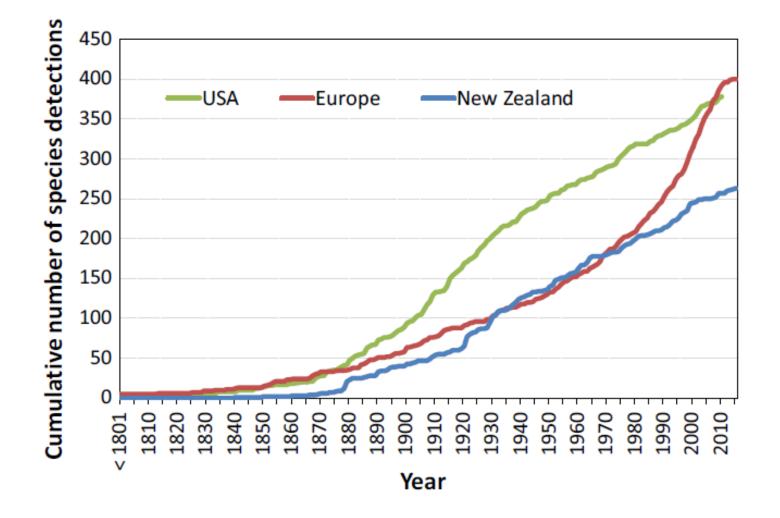
HOlistic Management of Emerging forest pests and Diseases

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Exponential increase of invasive forest pests and pathogens



(Brockerhoff & Liebhold, 2017)

Many pathways

Journal of Pest Science

	Coleoptera	X Diptera	Hemipters	Homoptera	Hymenoplera) Isoptera	Lepidoptera	Orthoptera	* Thysanoptera
Plants for planting	•	•	•		•	·	•	•	•
Wood-packaging materials		•	•	•	•	·	•	·	·
Logs		·	•	•	•	•	·	•	•
Processed wood		•	•	•	•	•	·	·	•
Containers				•	•	•		•	·
Vehicles and machinery	•			•	•	•		•	•
Passengers	•	•	•		•	•	•	•	•
Noi Noi			•	•	•	•	•	•	•





Wood-packaging materials





Processed wood







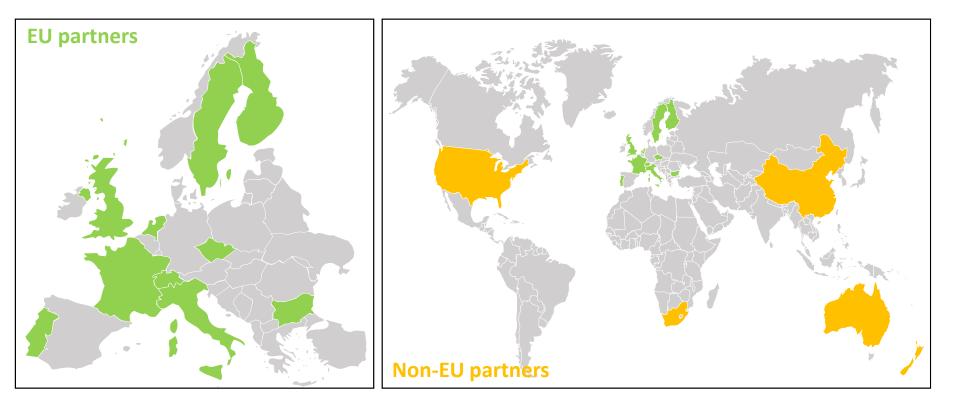


(Meurisse et al. 2018)

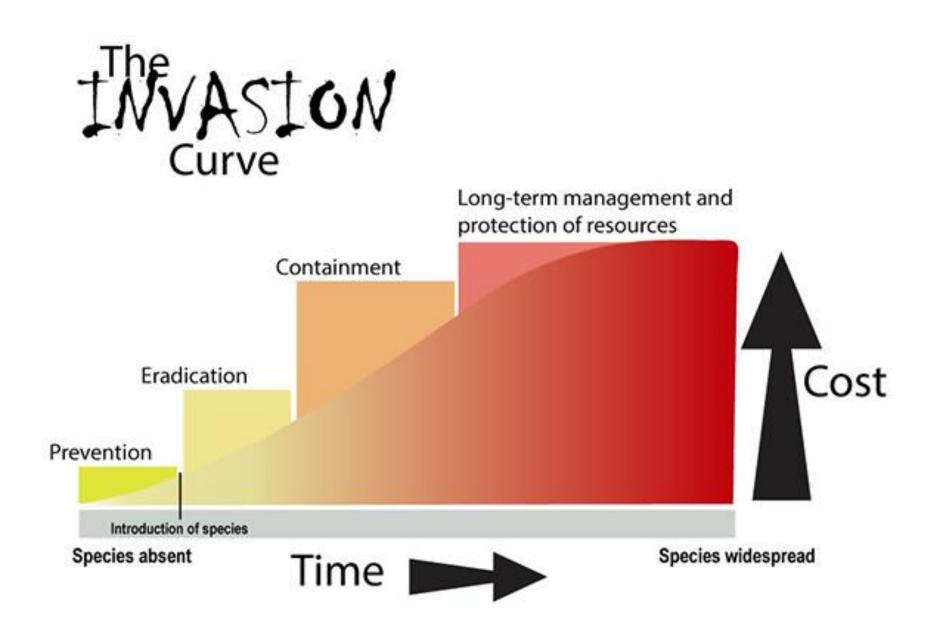
Urgent need for better prevention and management of exotic pests and diseases in European forests



Practical innovative tools and methods delivered to multiple actors in charge of risk prevention, risk analysis and risk mitigation in EU forests

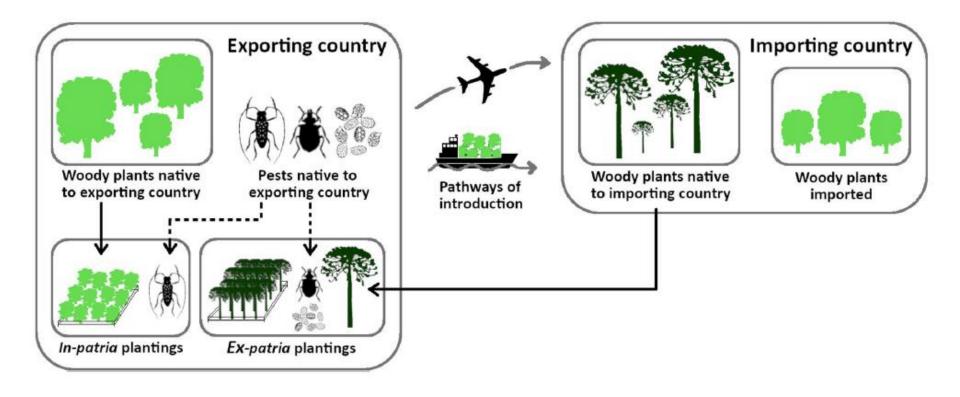


23 partner organizations



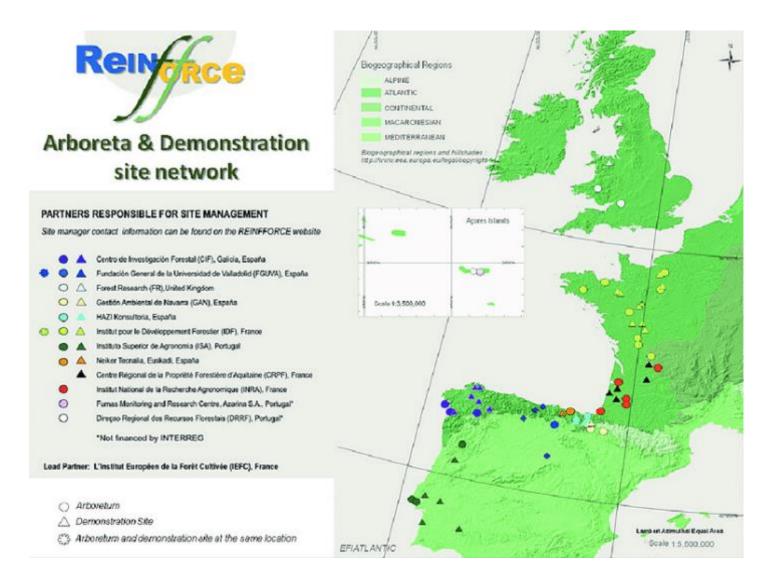
Prevention

Sentinel plantations





Sentinel network of arboreta



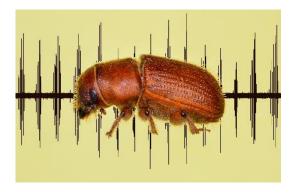
Detection

Multi-lure traps

Aerobiology

DNA bar coding

Sensors in containers









Drone monitoring, detecting and spraying



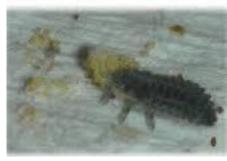
Containment



Food and Agriculture Organization of the United Nations

Guide to the classical biological control of insect pests in planted and natural forests

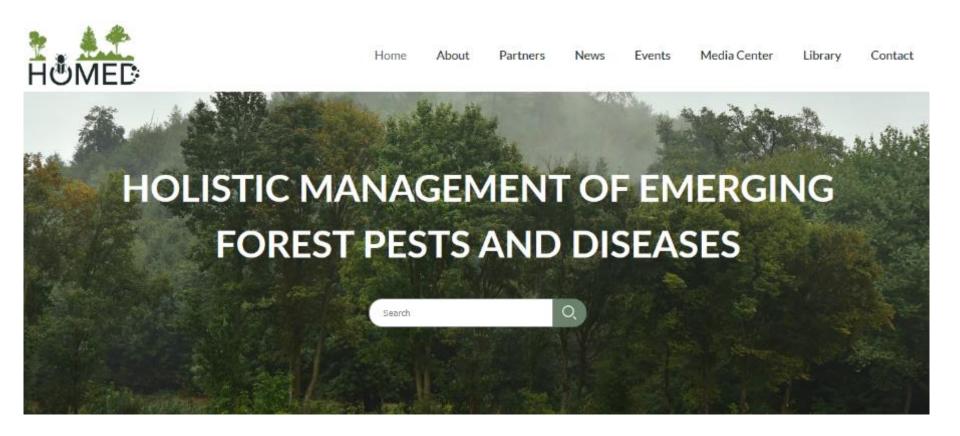






The parasitoid Apechthis compunctator parasitizing a boxwood tree moth (Cydalima perspectalis) pupa

http://homed-project.eu/



Collaborations are welcome !