

PROJECT In-Tree

Introduced tree species in European forests: challenges and opportunities

Frank Krumm and Lucie Vítková





Discussion

- Emotional discussion, often not evidence based
- Contradicting perspectives (forestry, gardening, nature conservation, society, hunting)
- Definitions and terms are used in different ways
- Various reports conducted by the Federal Agency for nature conservation (BFN). Declaration of Douglas fir and red Oak to be invasive in Germany.
- Ongoing activities on the EU level on the establishment of a black list on Alien Invasive Species (IAS)







- Background:
 - Pro-active request of the German Federal Ministry for Food and Agriculture (BMEL)
 - EFI as a unbiased non national organisation to provide the objective scientific state of the art
 - Short project duration with a very tough schedule
 - Successful project on integrative approaches as an opportunity for the conservation of forest biodiversity (INTEGRATE), coordinated by the European Forest Institute (Central European Regional Office EFICENT)
 - What about the list on IAS?



PROJECT IN-TREE

Scientific advisory board

- Annemarie Bastrup-Birk, European Environment Agency (EEA), Denmark
- Jürgen Bauhus, University of Freiburg, Germany
- Etienne Branquart, Directorate General for Agriculture, Natural Resources and Environment, Service Public de Wallonie, Belgium
- Marco Conedera, Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Cadenazzo, Switzerland
- Franz Essl, University of Vienna and Austrian Environment Agency, Austria
- Hans-Gerhard Michiels, Forest Research Institute of Baden-Württemberg FVA, Germany
- Andreas Rigling, Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Birmensdorf, Switzerland
- Jan Wunder, Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Birmensdorf, Switzerland



Key terms and definitions

Term	Definition	Source
Introduction	A process (or an action) that enables a species (or its propagule) to	Amended from
	overcome, through a human agency, a major geographical barrier.	Richardson et al. (2000)
Introduced species	A species in a given area whose presence there is due to intentional	Gassmann and Weber
(non-native, alien, non-	or accidental introduction as a result of human activity.	(2006)
indigenous, exotic)		
Native species	Species that have evolved in a given area or that arrived there by	Amended from Pyšek <i>et</i>
	natural means without the intentional or accidental intervention of	al. (2004)
	humans from an area where they are (or had been) native.	
Naturalisation	Process whereby the species establishes new self-perpetuating	Richardson et al. (2000)
	populations, undergoes widespread dispersal and becomes	
	incorporated within the resident flora.	
Invasion	A process whereby a species must overcome a series of barriers to be	Amended from Valéry et
	able to spread into novel areas in which it becomes dominant.	al. (2008)
Invasive species	A species that has been naturally reproducing in large numbers over	-
	considerable distances causing negative impact on local ecosystems;	
	i.e. by direct competition for natural resources.	

- Avoid confusion and misunderstanding

- Ensure clarity of the definitions

Ensure consistency of the terms used throughout the book

PROJECT IN-TREE

Achievements:







- Book publication
- Expert exchanges
- School project / Webinar
- Extended network
- Expert database (Risk platform)
- Various events
- Policy brief







Book publication

- To synthesise current knowledge on introduced tree species across the European continent
- To comprehensively present key challenges and opportunities based on scientific knowledge and case studies:
 - Climate change
 - Pests and diseases
 - Ecosystem services

Fact and evidence based compilation of scientific and practice knowledge

 To provide a <u>neutral</u> knowledge and evidence-based platform for future activities



Book publication: authors

- Selection of authors:
 - Proven track of:
 - Relevant experience
 - Academic record of relevant literature
 - EFI and IN-TREE team's network
 - Availability / Capacity
 - Recommendations of experts and advisory board
 - International Symposium in July 2015
- What's expected:
 - Contribution by spring 2016
 - Review other chapters
 - Translations into French and German
 - Facts and evidence based information





Content

<u>Authors</u>

- ✓ 89 authors from research and practice
- ✓ from 18 different countries across Europe and beyond
- ✓ Representing 45 different institutions and enterprises









Policy brief



In-Tree policy brief

"A forest pest is not always a forest pest"

Frank Krumm, Lucie Vítková, Tim Green and Andreas Schuck



Expert exchanges



Three Exchanges took place in Freiburg City Forest, in southern Ireland and in western Czech Republik.

The participating institutions are planning further activities on on their own initiatives as this was proven to be a very succesful tool!



Risk platform





Risk platform

Possibilities

- Use RISK Platform as an expert database. Share, collaborate and enhance your network.
- Get most useful information from the field. E.g. observations documented with photos
- Use the information from other networks, not only the scientific view
- Use your rating for your CV

Events - MonteVeritá







FUTURE

Assessment of invasiveness of introduced forest tree species in Europe





FUTURE

Further Publications under development

Crosslink to the Forest Risk Facility (Friskgo) in Bonn (EFI) Planned special issue in a scientific journal with a cross continental view Special issue in a practitioners journal Swiss Journal of Forestry





With support from Federal Ministry of Food and Agriculture by decision of the German Bundestag

