



GoProFor

LIFE17 GIE/IT/000561



Foreste e biodiversità: stato della conservazione delle foreste in Italia

*Forests and biodiversity: forest
conservation status
in Italy*



UNIVERSITÀ
DEGLI STUDI
DEL MOLISE

Marco Marchetti (UNIMOL - SISEF)



PALERMO | 11 NOVEMBRE 2019

LIFE E RETE NATURA 2000

Dall'esperienza dei Progetti verso un modello condiviso per la Gestione Forestale

LIFE AND NATURA 2000 NETWORK

From Projects experience to a shared model for Forest Management

Forest biological diversity

refers to *all life forms* found within forested areas and the ecological roles they perform. (Conference Of the Parties COP 2 Decision II/9).

PNALM 2019



Monitoring of Forest Biodiversity



Forest Europe growing life

Ministerial Conference on the Protection of Forests in Europe

SFM Criteria and Indicators

- 1. Forest Resources & Carbon**
- 2. Forest Health**
- 3. Productive Functions**
- 4. Biological Diversity**
- 5. Protective Functions**
- 6. Socio-economic Functions**

- 4. Biological Diversity**
 - C.4 Policies, institutions & instruments**
 - 4.1 Diversity of tree species**
 - 4.2 Regeneration**
 - 4.3 Naturalness**
 - 4.4 Introduced tree species**
 - 4.5 Deadwood**
 - 4.6 Genetic resources**
 - 4.7 Forest fragmentation**
 - 4.8 Threatened forest species**
 - 4.9 Protected forests**
 - 4.10 Common forest bird species**



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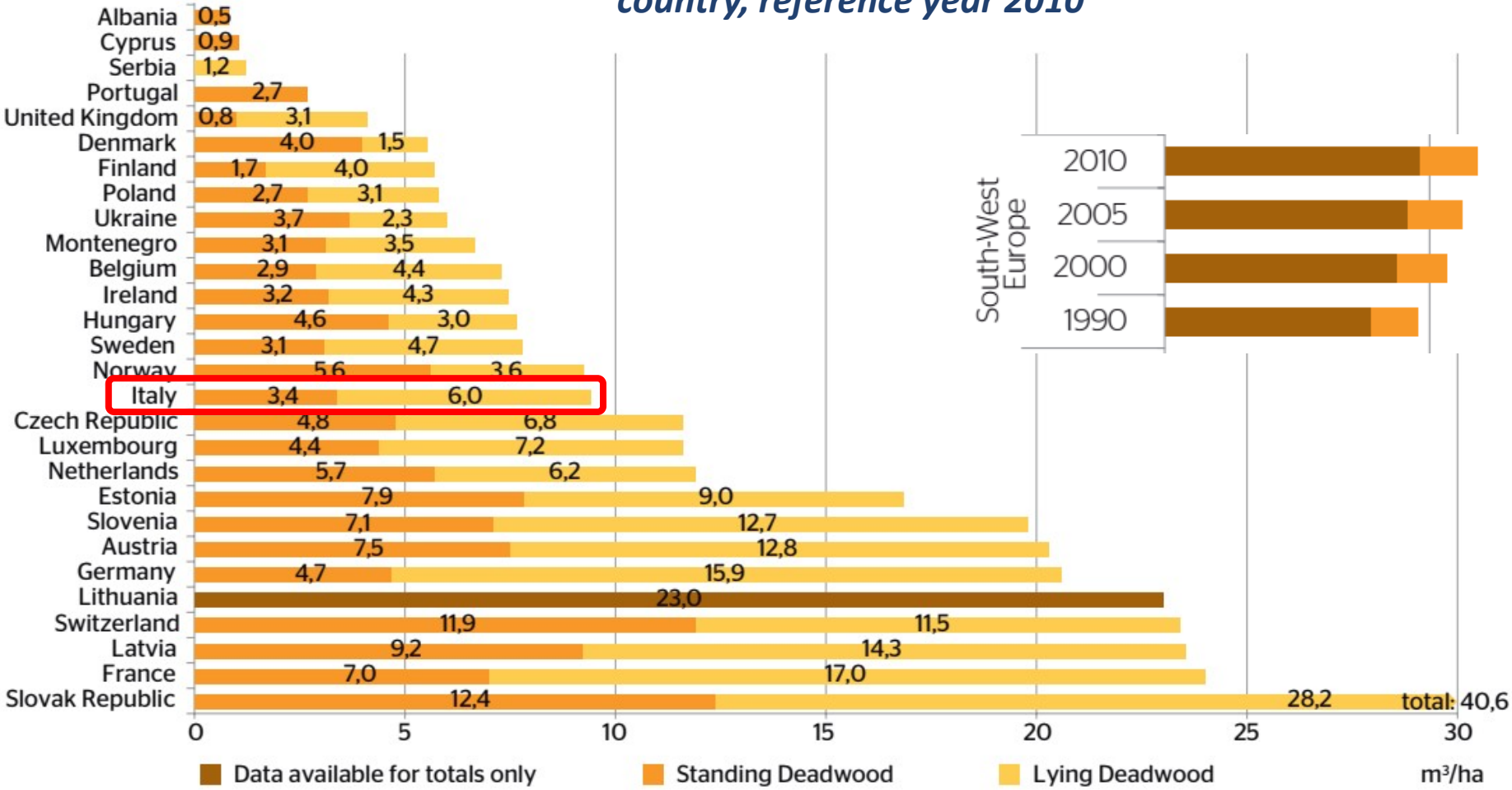
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Forest Europe

Average volume of standing and lying deadwood by country, reference year 2010



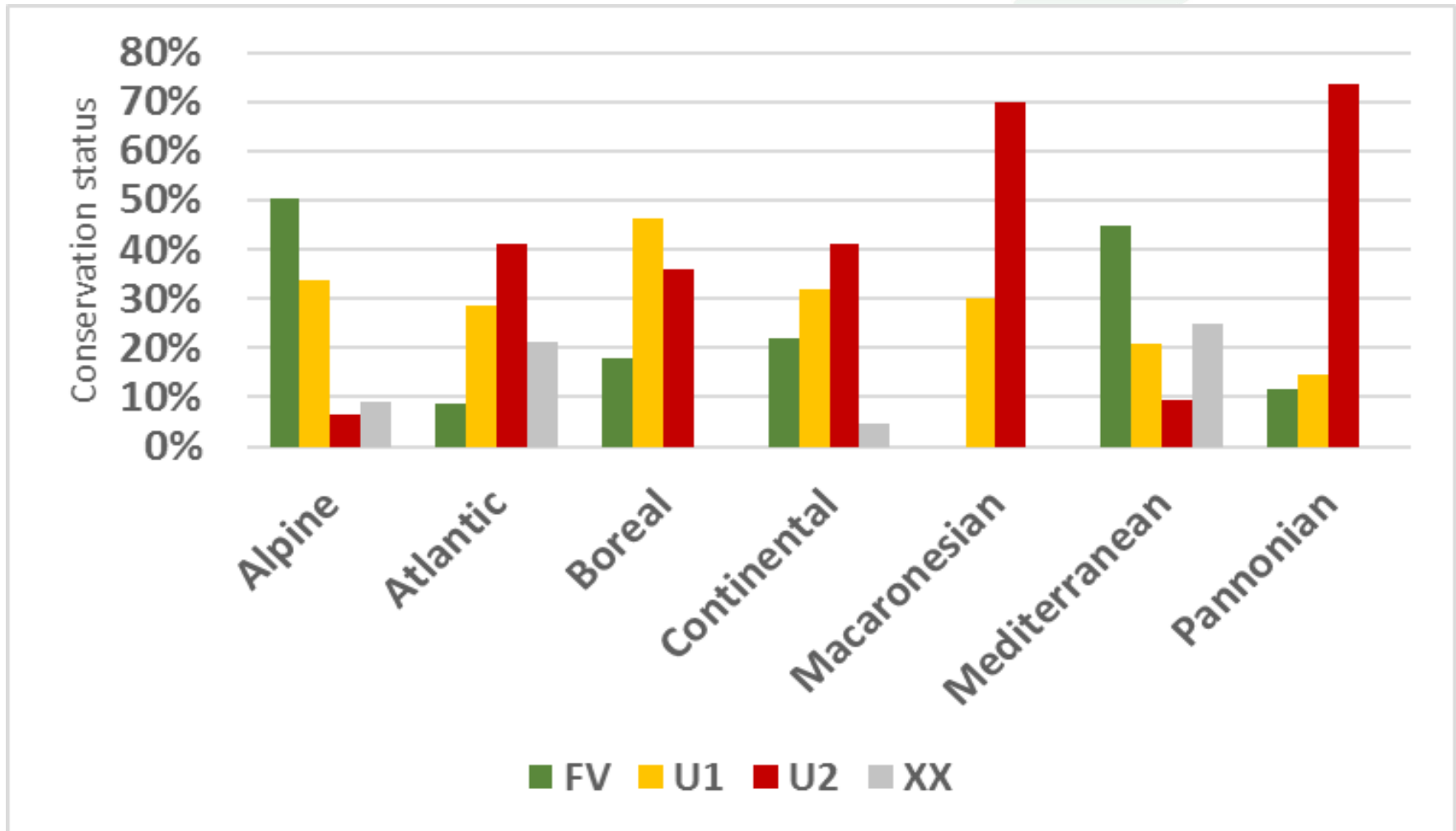
Half of the signatories reported changes, most of which were driven by the implementation of the Natura 2000 networking programme



Monitoring of Forest Biodiversity

Natura 2000

Conservation status assessed per biogeographical region (2007-2012 period). Favourable “FV”, Unfavourable-Inadequate “U1”, Unfavourable-Bad “U2”, Unknown “XX”.



Monitoring of Forest Biodiversity

National Forest Inventory

**Total deadwood
in ITALY**
 $8.7 m^3ha^{-1}$



Standing
deadwood

$5 m^3ha^{-1}$



Lying
deadwood

$1.9 m^3ha^{-1}$



Residual
Stumps

$1.5 m^3ha^{-1}$

<https://www.sian.it>



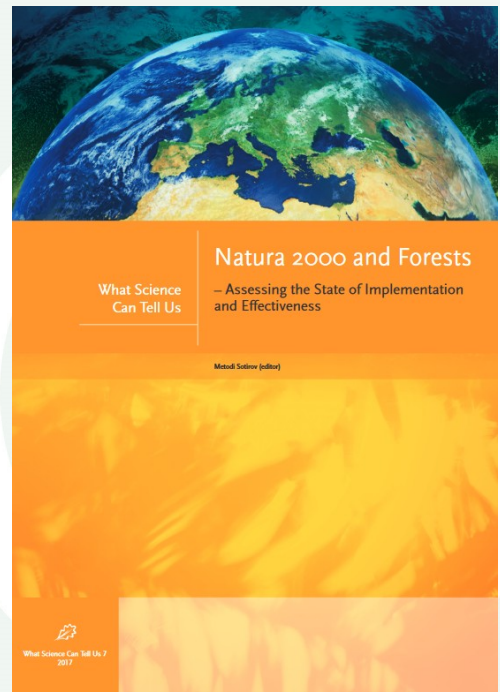
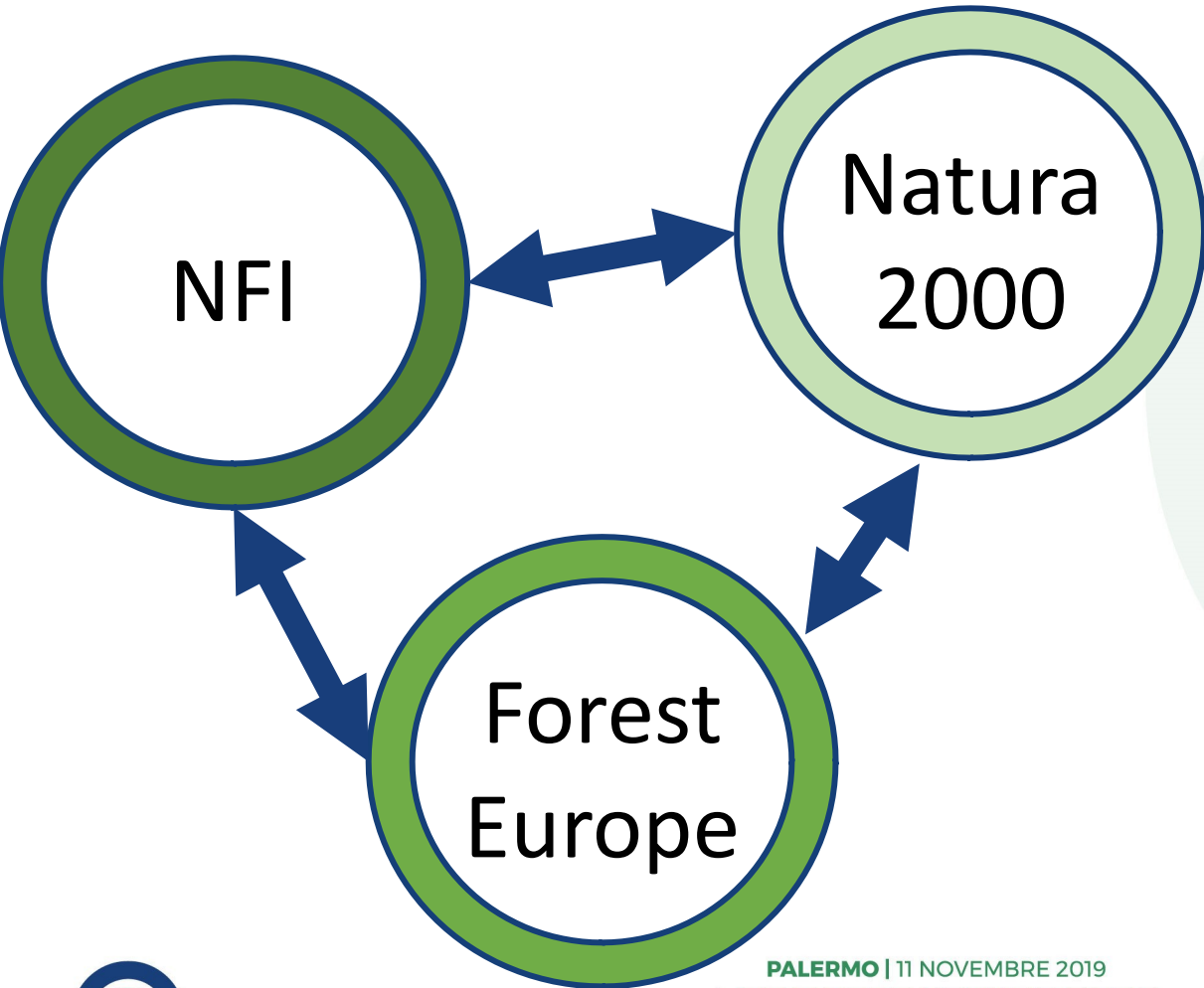
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Monitoring of Forest Biodiversity

Improve the interconnection among monitoring systems



Temporal scale
Type of data
Methods

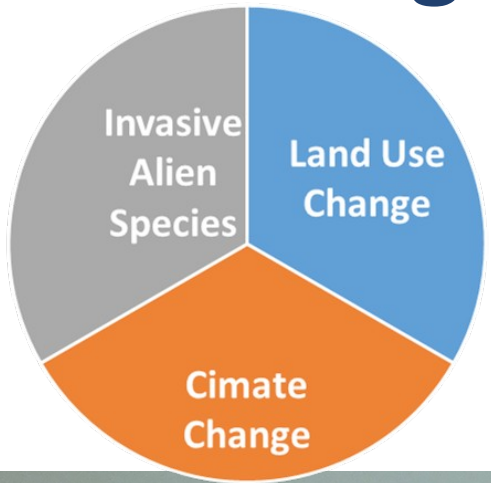


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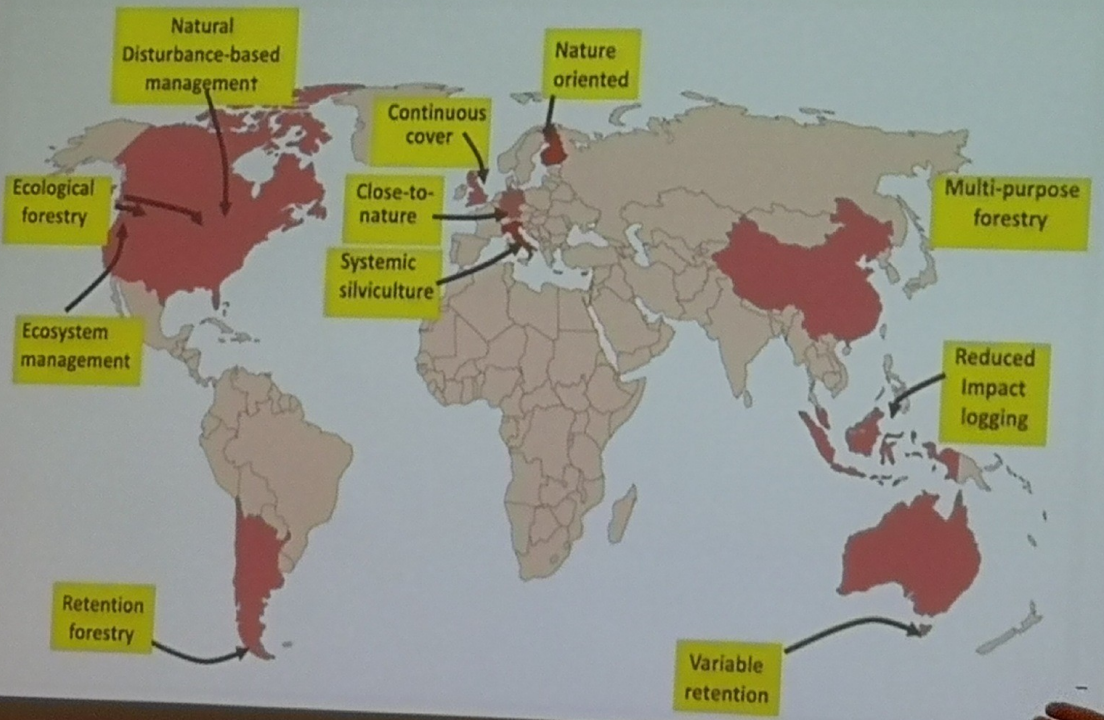
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Monitoring of Forest Biodiversity



Alternative silvicultural approaches



In situ conservation

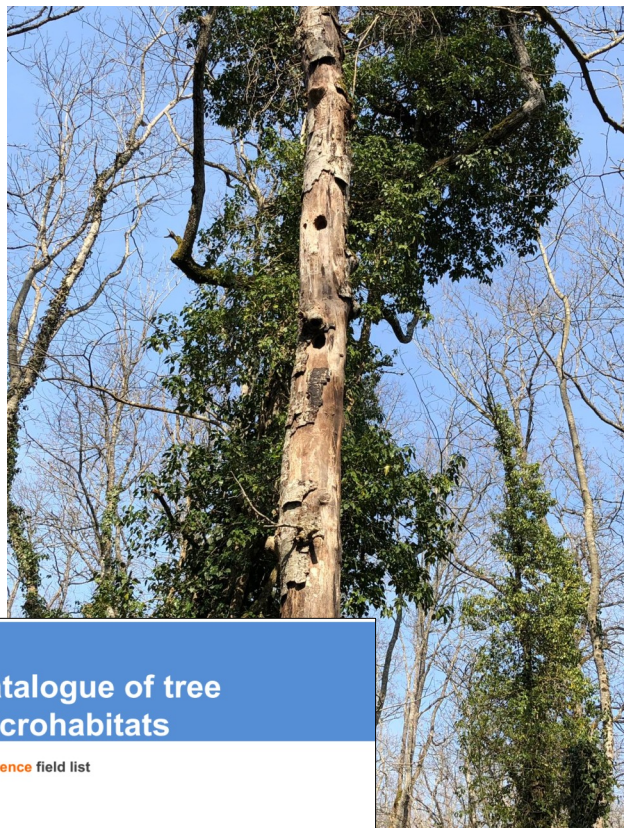
Protected areas

19
2000
per la GE
FWOR
Managemt

Monitoring of Forest Biodiversity

Hidden biodiversity

Tree-related Microhabitat



Catalogue of tree microhabitats
Reference field list

<https://informar.eu/tree-microhabitats>

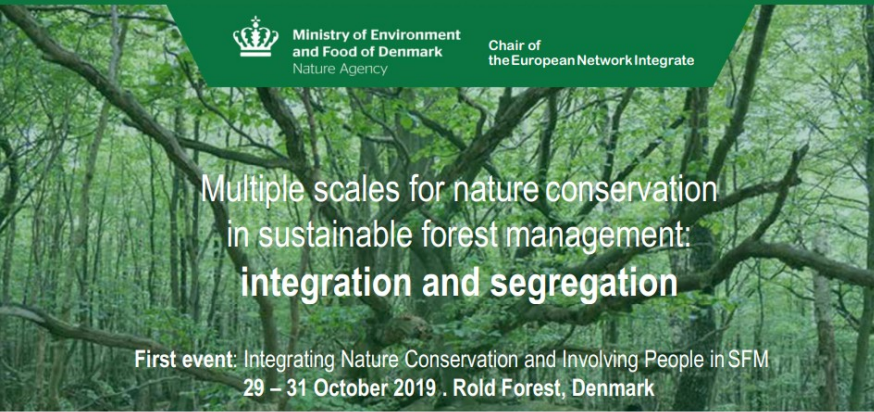


2016 - 64 TreMs



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Integrate Forest Management

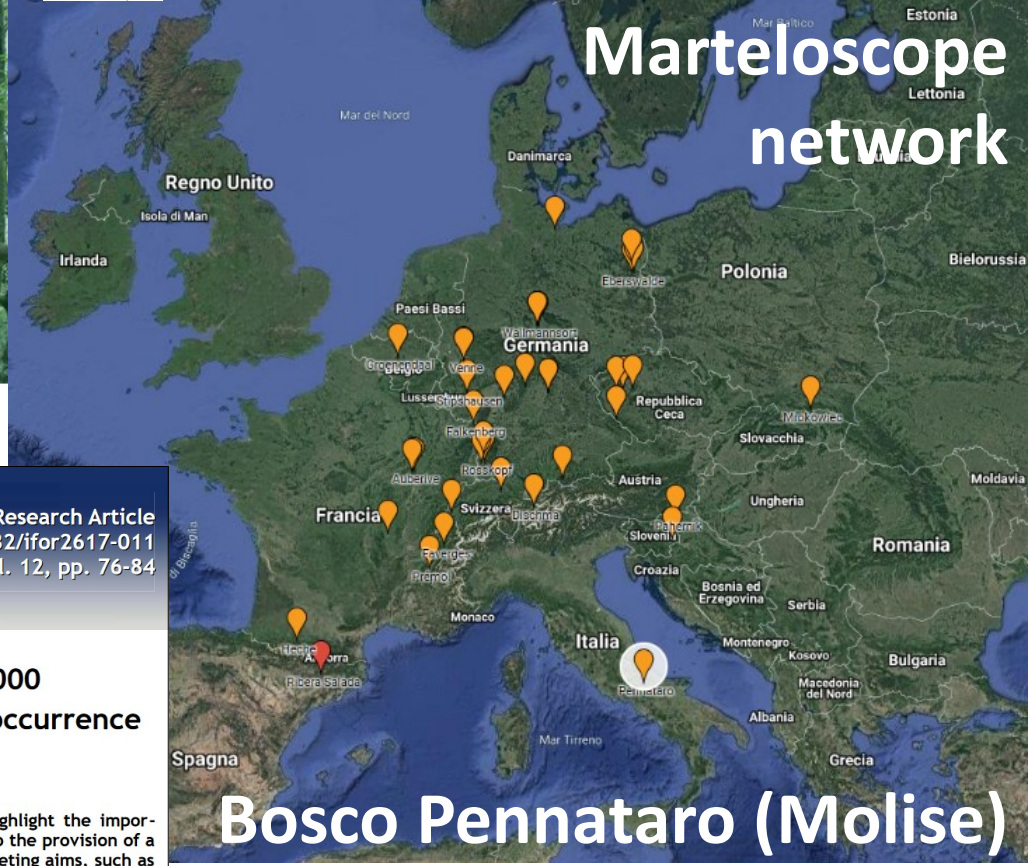


Ministry of Environment and Food of Denmark
Nature Agency
Chair of the European Network Integrate

Multiple scales for nature conservation in sustainable forest management: integration and segregation

First event: Integrating Nature Conservation and Involving People in SFM
29 – 31 October 2019 . Rold Forest, Denmark

Program for 5th meeting of the European Network Integrate



Marteloscope network

Bosco Pennataro (Molise)



Research Article
doi: 10.3832/ifor2617-011
vol. 12, pp. 76-84

Biodiversity conservation and wood production in a Natura 2000 Mediterranean forest. A trade-off evaluation focused on the occurrence of microhabitats

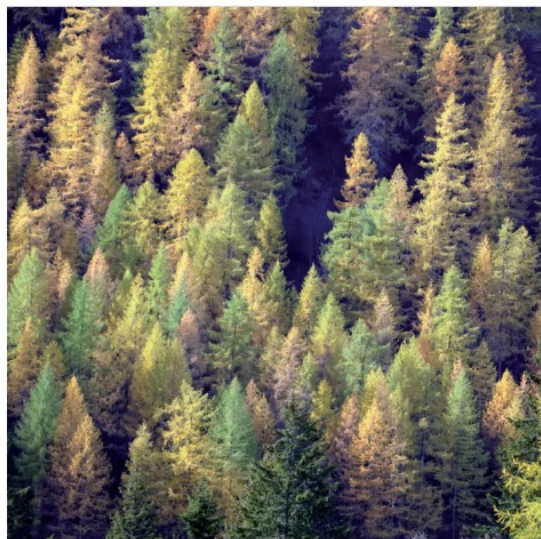
Giovanni Santopuoli⁽¹⁻²⁻³⁾,
Marco di Cristofaro⁽²⁾,
Daniel Kraus⁽⁴⁾,
Andreas Schuck⁽⁵⁾,
Bruno Lasserre⁽²⁾,
Marco Marchetti⁽¹⁻²⁾

The most significant European forest-related strategies highlight the importance of multifunctional forests for human wellbeing, due to the provision of a wide range of goods and services. However, managing competing aims, such as timber production, economic drivers and biodiversity conservation is often difficult for practitioners. In order to assess the loss and gain of ecosystem services caused by forestry, trade-off evaluation has been increasingly used to aid decision-making. In this study, four silvicultural scenarios are simulated using the Marteloscope approach to evaluate the trade-offs between biodiversity

RE 2019
RA 2000
diviso per la Gestione Forestale



Manifesto per il Paesaggio agrario e forestale italiano



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Thank you



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