

“A green infrastructure for growth: the potential role of the Alpine forests in a European Green Economy”

EREMO MONTE BARRO, REGIONAL PARK OF MONTE BARRO

GALBIATE (LC), ITALY

7th MARCH 2014 – 9:00 AM – 1:30 PM



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Valorizing mountain forest multi-functionality: case studies of silvo-tourism in the Alps

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FOXLAB, Research and Innovation Centre (CRI) - Edmund Mach Foundation



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SILVO-TOURISM

Is a sub-sector of the “rural tourism (as agro-tourism) and eco-tourism

There is no official/legal widely accepted definition:
use (i.e. stay, walking, running, ..., eating, ...) wood
and non-wood forest products (goods and
services) derived from forests, other wooded land



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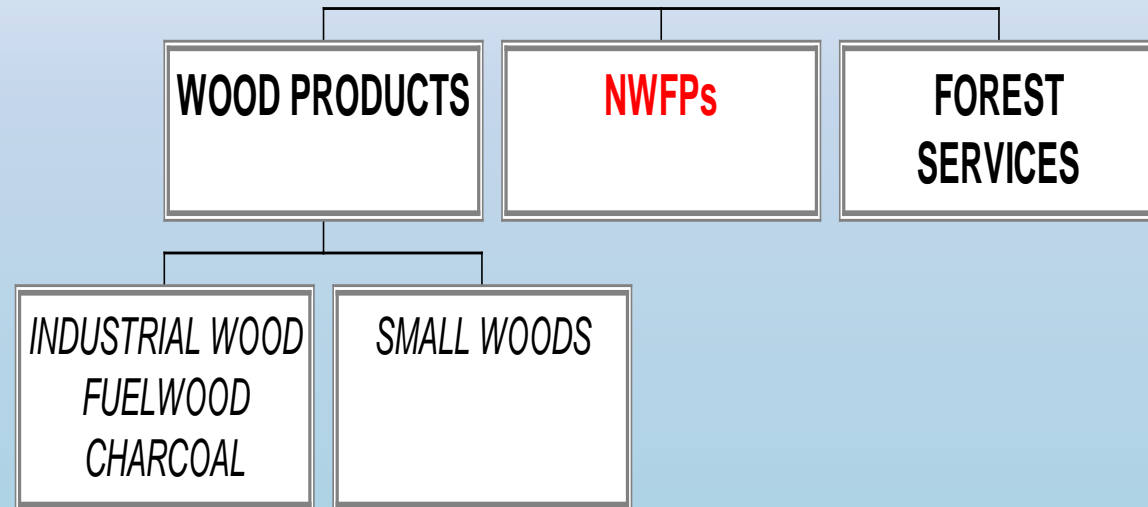
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goods of **biological origin** other than wood, derived **from forests**, other **wooded land** and **trees outside forests**

Non Wood Forest Products (NWFPs) and F.A.O.'s DEFINITION



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RAW

and

PROCESSED

NON-FOOD & FOOD NWFPs

i.e.: , moos, cones, resins, bark, cork,
foliage, game, wild honey, fruits,
berries, nuts, mushrooms, truffles, ...

i.e.: essential oils, bottle stoppers,
decorative foliage, venison, game-sausages,
fruit jam, berries jam, marrons glacés, , ...

NWFPs

PLANTS

ANIMALS

FUNGI

NON-FOOD

FOOD

FOOD

NON-FOOD

FOOD



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NWFPs and MCPFE - Helsinki 1993 (Resolution H1)

H/I. Noting that the report 'The Forest Resources of the Temperate Zones' (the UN-ECE/ FAO 1990 Forest Resource Assessment) shows that the European forest resource is continuing to expand in terms of area, standing volume and increment, and that the demand for **non-wood products and services** is increasing in absolute and relative importance,



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NWFPS and MCPFE - Helsinki 1993

(Resolution H1)

PART I: GENERAL GUIDELINES

11. Because of the expanding European forest resource, the use of wood and **non-wood forest products** should be encouraged on a basis compatible with the **sustainable management** of forests, thereby providing and increasing the potential for traditional and new forest products, sales of which can provide, for both the owner and society, a ready means of financing forest management.



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NWFPs and MCPFE - Lisbon 1998

(Annex 2 of the Resolution L2 Pan-European Operational Level Guidelines for Sustainable Forest Management)

CRITERION 3. Maintenance and encouragement of productive functions of forests (wood and **non-wood**)

3.1 Guidelines for Forest Management Planning

a. Forest management planning should aim to maintain the capability of forests to produce a range of wood and **non-wood forest products and services** on a sustainable basis.



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NWFPs and MCPFE - Lisbon 1998

(Annex 2 of the Resolution L2 Pan-European Operational Level Guidelines for Sustainable Forest Management)

CRITERION 3. Maintenance and encouragement of productive functions of forests (wood and **non-wood**)

3.2 Guidelines for Forest Management Practices

c. Harvesting levels of both wood and **non-wood forest products** should not exceed a rate that can be sustained in the long term, and optimum use should be made of the harvested forest products, with due regard to nutrient offtake.



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EU Forestry Strategy (Council Resolution of 15.12.1998)

“UE identifies as substantial elements of this common Forestry Strategy: ... h) the **promotion** of the **use** of wood and **non-wood forest products** from **sustainably managed forests** as environmentally friendly products in line with the rules of the open market”



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1. QUANTITATIVE INDICATORS

NWFPs and MCPFE - Vienna 2002

Criteria	No.	Indicator	Full text
C 1: Maintenance and Appropriate Enhancement of Forest Resources and their Contribution to Global Carbon Cycles	1.1	Forest area	Area of forest and other wooded land, classified by forest type and by availability for wood supply, and share of forest and other wooded land in total land area
	1.2	Growing stock	Growing stock on forest and other wooded land, classified by forest type and by availability for wood supply
	1.3	Age structure and/or diameter distribution	Age structure and/or diameter distribution of forest and other wooded land, classified by forest type and by availability for wood supply
	1.4	Carbon stock	Carbon stock of woody biomass and of soils on forest and other wooded land
C 2: Maintenance of Forest Ecosystem Health and Vitality	2.1	Deposition of air pollutants	Deposition of air pollutants on forest and other wooded land, classified by N, S and base cations
	2.2	Soil condition	Chemical soil properties (pH, CEC, C/N, organic C, base saturation) on forest and other wooded land related to soil acidity and eutrophication, classified by main soil types
	2.3	Defoliation	Defoliation of one or more main tree species on forest and other wooded land in each of the defoliation classes "moderate", "severe" and "dead"
	2.4	Forest damage	Forest and other wooded land with damage, classified by primary damaging agent (abiotic, biotic and human induced) and by forest type
C 3: Maintenance and Encouragement of Productive Functions of Forests (Wood and Non-Wood)	3.1	Increment and fellings	Balance between net annual increment and annual fellings of wood on forest available for wood supply
	3.2	Roundwood	Value and quantity of marketed roundwood
	3.3	Non-wood goods	Value and quantity of marketed non-wood goods from forest and other wooded land
	3.4	Services	Value of marketed services on forest and other wooded land
	3.5	Forests under management plans	Proportion of forest and other wooded land under a management plan or equivalent
C 4: Maintenance, Conservation and Appropriate Enhancement of	4.1	Tree species composition	Area of forest and other wooded land, classified by number of tree species occurring and by forest type
	4.2	Regeneration	Area of regeneration within even-aged stands and uneven-aged stands, classified by regeneration type



2. QUALITATIVE INDICATORS

A. Overall policies, institutions and instruments for sustainable forest management

- A.1 National forest programmes or similar
- A.2 Institutional frameworks
- A.3 Legal/regulatory frameworks and international commitments
- A.4 Financial instruments/economic policy
- A.5 Informational means

B. Policies, institutions and instruments by policy area

Ind. No.	Crit.	Policy area	Main objectives	Relevant institutions	Main policy instruments used			Signific. changes since last Ministerial Conference
					Legal/regulatory	Financial/economic	Informational	
B.1	C1	Land use and forest area and OWL ²						
B.2	C1	Carbon balance						
B.3	C2	Health and vitality						
B.4	C3	Production and use of wood						
B.5	C3	Production and use of non-wood goods and services, provision of especially recreation						
B.6	C4	Biodiversity						
B.7	C5	Protective forests and OWL						
B.8	C6	Economic viability						
B.9	C6	Employment (Incl. safety and health)						
B.10	C6	Public awareness and participation						
B.11	C6	Research, training and education						
B.12	C6	Cultural and spiritual values						

² OWL = other wooded land

NWFPS and MCPFE Vienna - 2003

Resolution V2 - Commitments

V2/9. improve enabling conditions for the market-based provision of a diversified range of **non-wood goods and services** from **sustainably managed forests**, inter alia, through identifying and removing unintended impediments and setting appropriate incentives,



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SFM, NWFPs and MCPFE Vienna - 2003

Resolution V2 - Commitments

V2/11. enhance the **competitiveness** of the forest sector by promoting **innovation** and **entrepreneurship** among all relevant stakeholders, notably for the efficient provision of new and improved wood and **non-wood goods and services**,



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EU Action Forest Plan

(Communication from the Commission to the Council and European Parliament of 15.06.2006)

“The five-year Action Plan (2007–2011) consists of a set of key actions which the Commission proposes to implement jointly with the Member States. ...”

Improving Long Term Competitiveness (Key Action 3)

*“**Exchange and assess experiences on the valuation and marketing of non-wood forest goods and services** ... Forests fulfil numerous functions which are not reflected in the prices of marketed wood and non-wood goods. There is a **need to quantify** the total value of forests and their functions, and to **develop** and **apply instruments** to compensate for non-marketed goods and services.”*



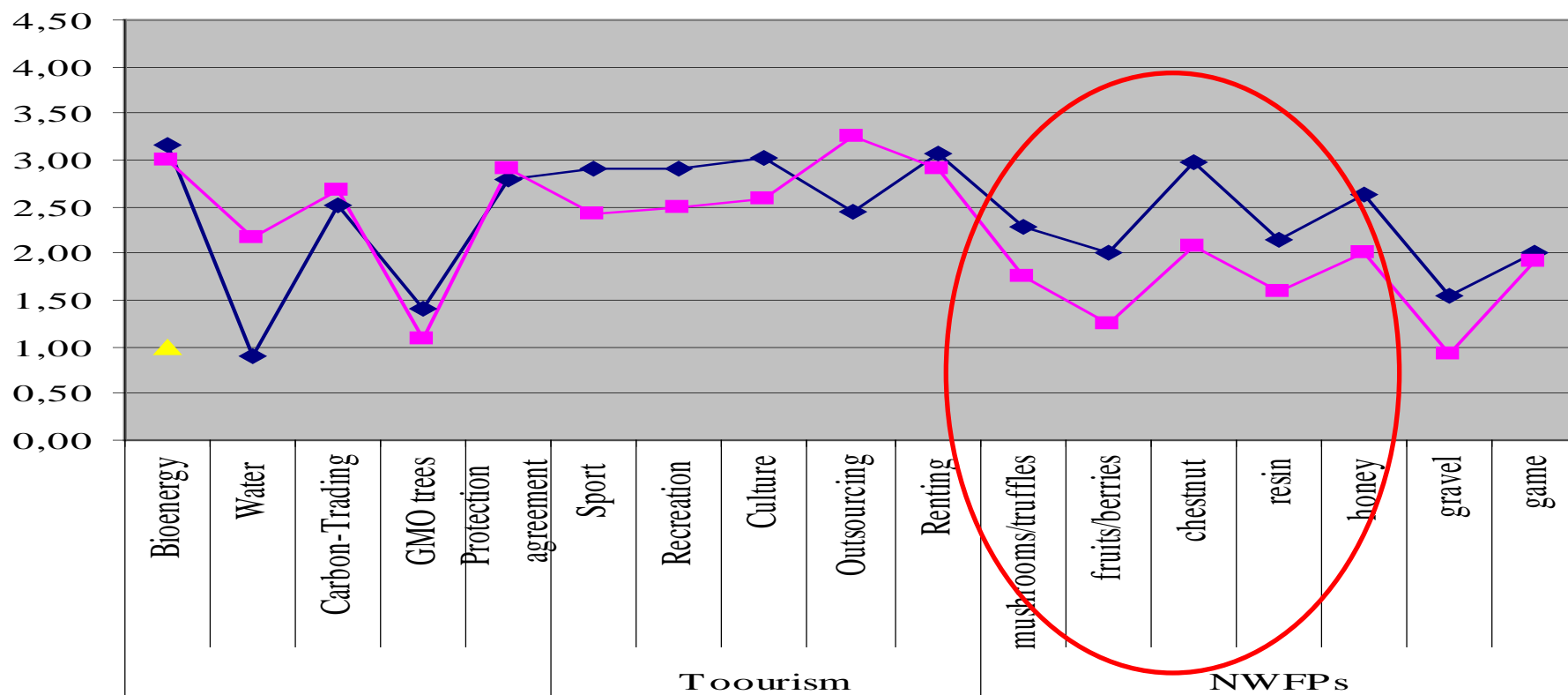
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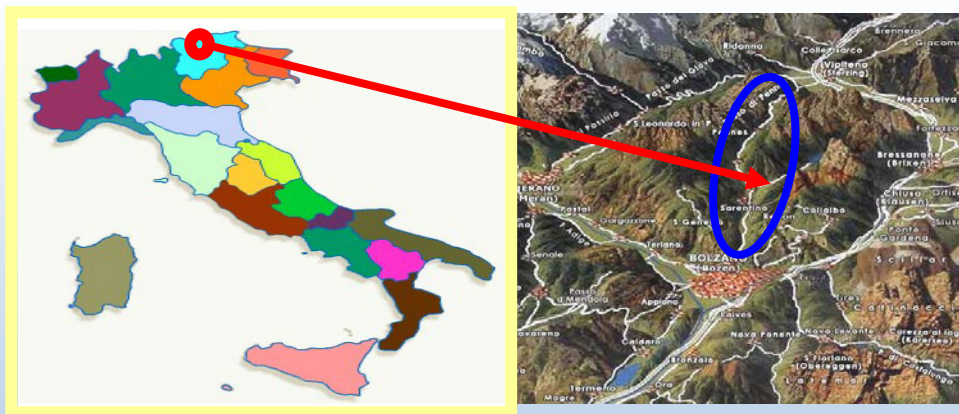
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MUGO PINE ESSENTIAL OIL” in VAL SARENTINO



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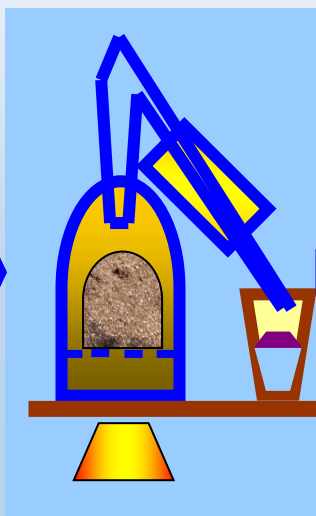


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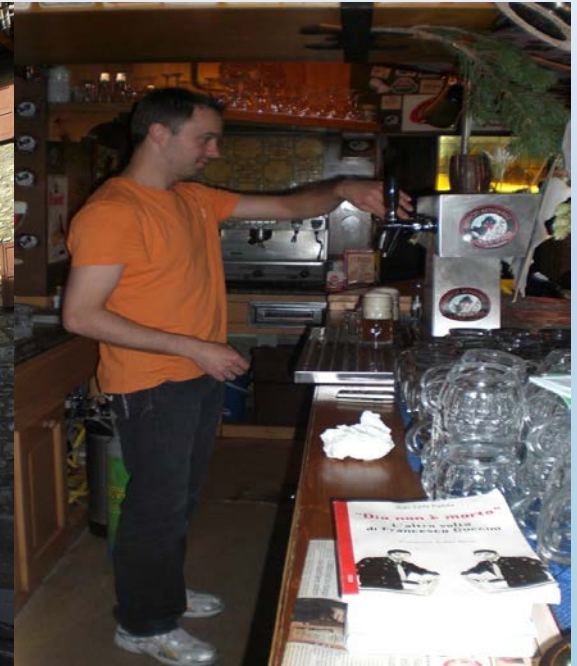
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*Beer flavoured with buds of
Mugo pine and needles of
Scots pine*

**Italian Brewmaster of
the year 2011**





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Azienda Agrituristica “Funghi e Fate”: Myco-Tourism



The snail on
stone



The screaming
tree

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- **Excursion 1** (in farm's Reserve): mushrooms recognition and monitoring (only on 1,5 hectares left to free evolution; picking is forbidden); carried out directly by the owner
- **Excursion 2** (in farm's Reserve): sustainable mushrooms picking and recognition (in remaining 8,5 hectares of the farm); carried out directly by the owner
- **Excursion 3** (in public Reserves managed by Consorzio Comunalie Parmensi): like excursion 2 plus knowledge of PGI “Fungo Porcino di Borgotaro” and use of legal picking permits; carried out mainly by external “ad hoc” trained guides



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- **Course 1** (on request; to beginners; carried out by the owner): fundamentals of mycology and recognition of the most known local mushrooms plus excursion 1
- **Course 2** (on request; to trained pickers; carried out by professional mycologist): refreshing and deepening with excursion



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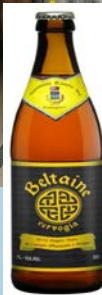
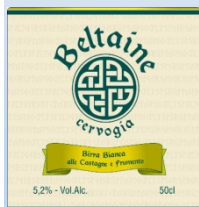
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Cooperativa Sociale Monghidoro: BELTAINÉ Chestnut Beer



Chestnut Didactic
Park



Chestnut
Smoking and
Drying House
"Canniccio"



SPA of
Porretta Terme

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Riserva del Lamone: Cultural Heritage in Natural Reserve



Tree
Lovers on
the Rocks



Young
archaeologists
at work on
Etruscan
settlement



Dry pond
(LACIONE;
seasonal basin with
peculiar
biocenosis)



Pollarded tree (forage
production on
"MURCIA": volcanic
grey-black stones)



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- lack of
 - *market demand because of difficulties in securing steady supply to clients*
 - *market research and marketing information*
 - *public funds/incentives (as to NWFPs, mistrust in EU Rural Development Plans 2007-2013)*
- flawed perception by potentially interested chains (food, pharmaceutical, ...) regarding value and potential of NWFPs

- need of
 - *strengthening of the communication degree among forest owners, NWFPs processors and institutions*
 - *improving integration into local/regional strategies of territorial marketing*
- attention to mandatory and different requirements of legislation for raw and processed NWFPs

- Think long term and dare to take strategic choices in order or to integrate either to increase income/profit of the firm
- Establish tactical partnerships with different actors not only linked to forestry chain
- Collaborate with those above actors
- Preferably join an association or union helps to lead new markets and to reach efficiently to the effective information to identify innovative processing techniques and processed products (adding value function) needed by different (knowledge of the markets)

- Diversify products in order to deseasonalise selling period and meet the most diversified consumers/customers/clients
- Qualify products through services
- Ensure and enhance quality of the products (and services linked) assuring the traceability along the manifold chains/actors processing it



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