

EUSTAFOR Conference
Tempio Pausania, 16 May 2018

Ecosystem services and non-timber provisioning: giving value and balancing alternative uses of forest services

Davide Pettenella, University of Padova



TESAF

TESAF Dipartimento Territorio e Sistemi Agro-Forestali



Outline

- Introduction: a changing context
- NWFP, better: WFP
- Cultural services, a world of opportunities
- Conclusion

Slides can be download from the web: search "pettenella"

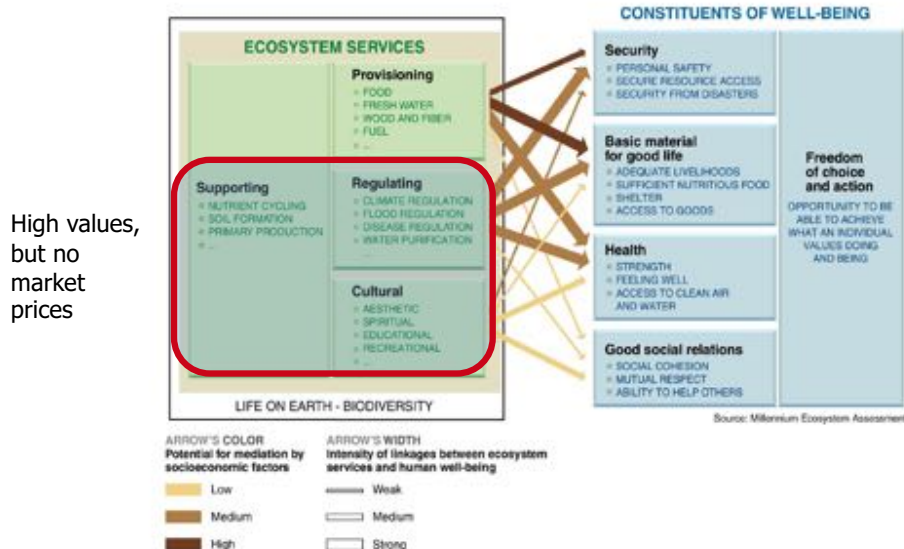
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Ecosystem Services (ES) classification by the Millennium Ecosystem Assessment



Average values of the ecosystem services

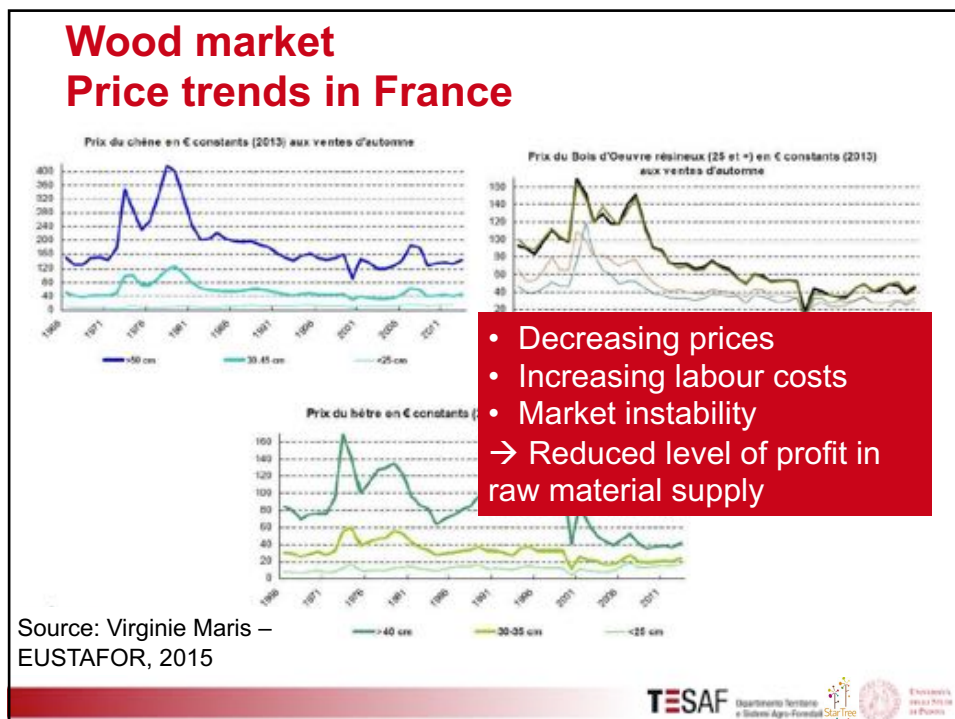
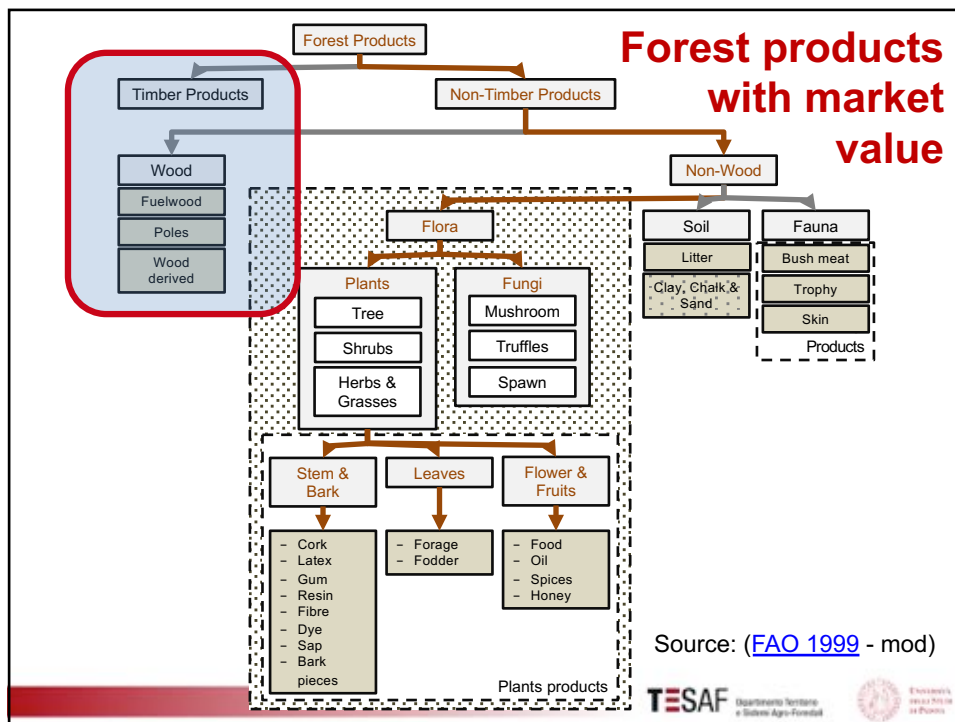
Average economic **value for biodiversity and recreation services** provided by European forests (benefit transfer approach; TEEB, 2009)

	Mediterranean EU	Northern and Central-Northern EU	Scandinavian EU
	Latitude 45-65	Latitude 65-71	Latitude 35-45
Range US\$ (2000)	356-615	123-182	123-255
Average \$ (2000)	485.5	152.5	189.0
€ (2000)	379.3	119.1	147.7
€ (2008)	467.1	146.7	181.9

Source: TEEB Report; CLIBIO project cit. in ten Brink *et al.* (2009); figures ha/year

Forest management: an historical perspective

- **Wake theory** (*Kielwasser Theorie*; Rupf, 1960): the optimization of timber production brings about the supply of other ES
- **Segregative approach**: forests have to be split in different components with specific, specialized management objectives (wood production, soil protection, biodiversity conservation, ...)
- **Multifunctional use**: optimization of products with market values with attention to some environmental constraints



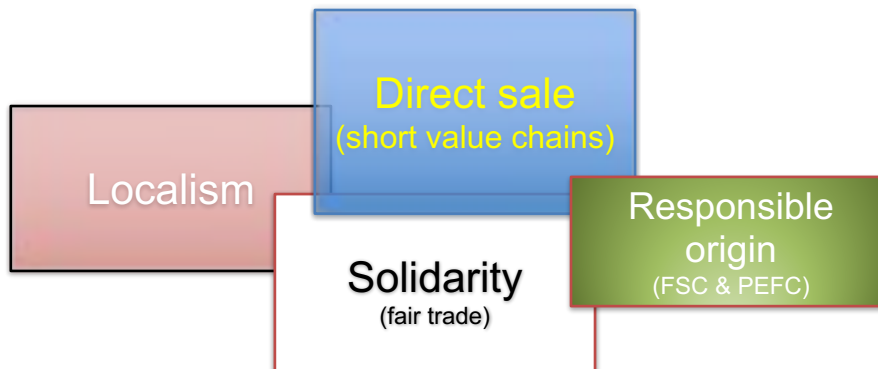
Forest management: an historical perspective

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- **Segregative approach**: forests have to be split in different components with specific, specialized management objectives (wood production, soil protection, biodiversity conservation, ...)
- **Multifunctional use**: optimization of products with market values with attention to some environmental constraints
- **Integrated approach**: optimization of the provision of all ES, both with market and without market

Forest economy: a process of “tertiarization”?

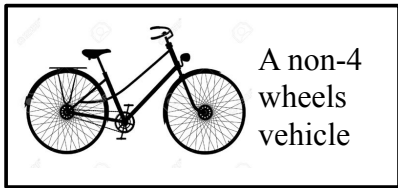
- Producing wood products: large industrial concentration, increasing role of low-value biomass → **reduced market power of the forest sector** vs. the wood-working industry
- A new affluent society with an increasing demand for cultural services (**de-materialization** of the economy)
- New markets: **commoditisation** of ES (Carbon market)

An emerging segment of consumers:
LOHAS (Life Style Of Health and Sustainability)



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NWFP

- Definition based on negative attributes
- Weak component of the economy
- Defensive attitude in marketing



WFP

- Definition based on positive attributes
- Modern segment of an affluent society
- Aggressive attitude in marketing

A study carried out under the StarTree project (FP7 <https://star-tree.eu>)



The StarTree HH survey

- **Purpose:**
Assess the consumption and collection of NWFPs in Europe
- **Questionnaire design origin:**
The questionnaire originated from StarTree's supply chain survey (T3.1.2 & WP3)
- **Design:**
Panel study (distributed by a polling agency), household as unit of analysis at EU28 scale (no Malta, Luxembourg and Cyprus) with Serbia, Turkey and European part of Russian Federation
- **Targeted parameters:**
95% confidence level, 5% confidence interval on national level

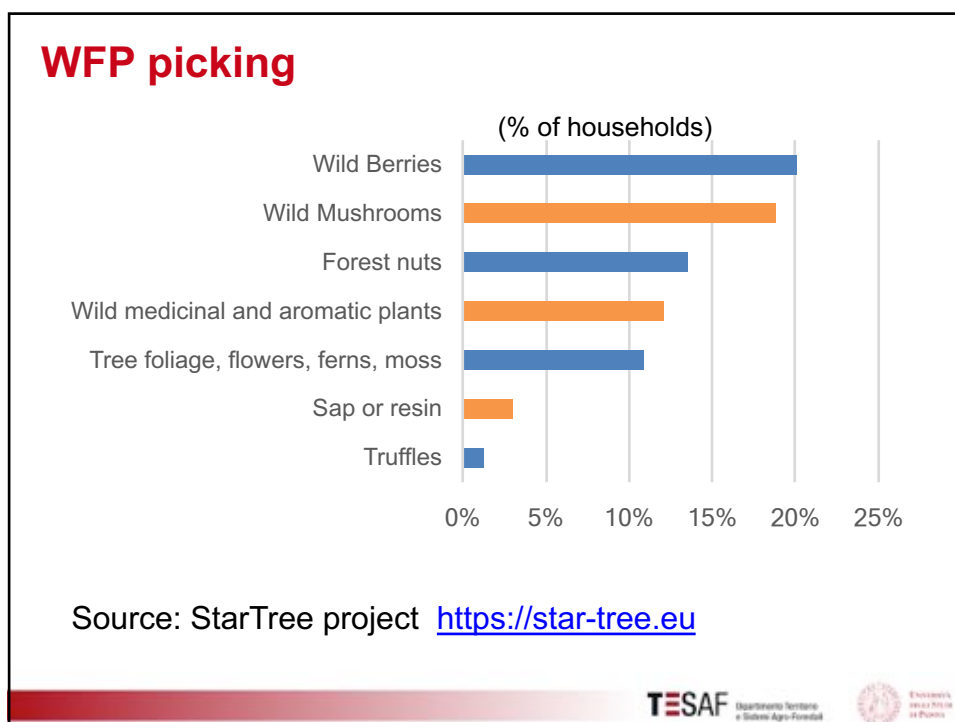
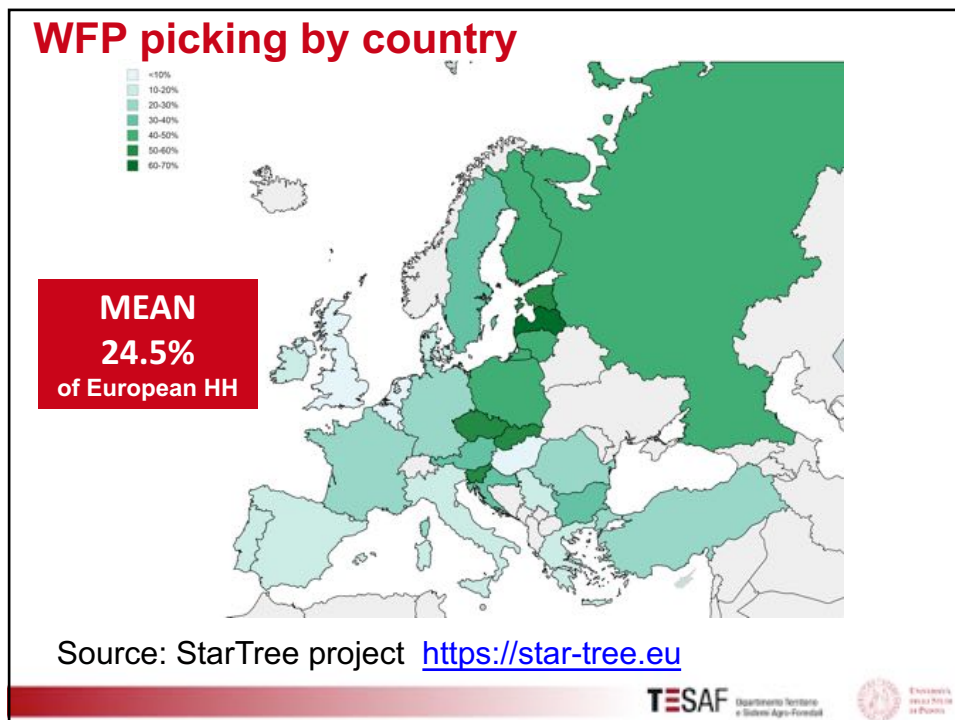
Source: StarTree project <https://star-tree.eu>

The StarTree HH survey

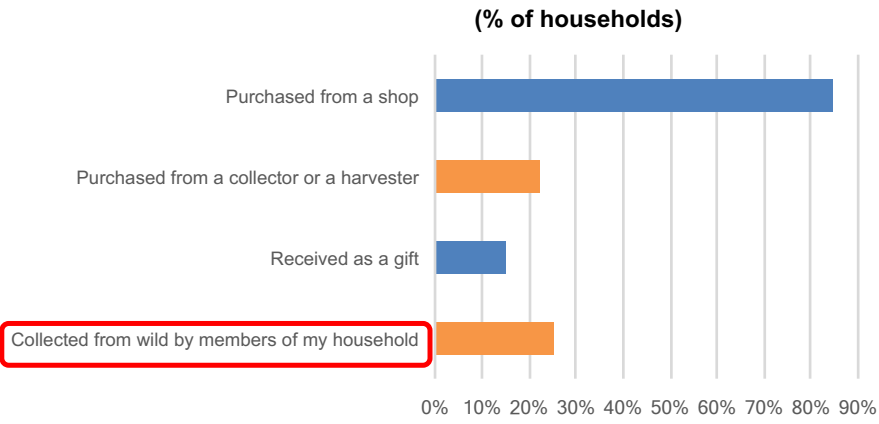
- **Sample:**
Respondents: 17 346 (95% confidence level, \approx 4.21% confidence interval)
Additional 2 482 respondents compared to the last time (cheater replace)
- **Questions:**
 - Socio-economic (urban/rural, income, size of household)
 - Consumption (14 products & how were they obtained)
 - Collection (8 groups, 45 products – consumption vs. sale, quantity, location & use)
 - Other (forest ownership, frequency of picking, problems with and income from picking)
- **Post-stratification**
By number of households per country and by size of households within country

UNIT OF ANALYSIS IS HOUSEHOLD!

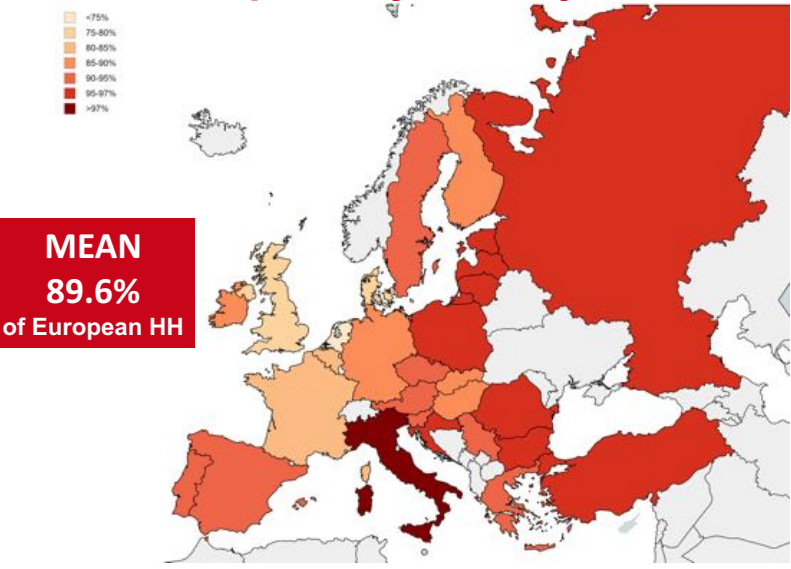
Source: StarTree project <https://star-tree.eu>



The demand side: how were WFP obtained?



WFP consumption by country



Source: StarTree project <https://star-tree.eu>

How much are WFPs sold/consumed?

	Tree foliage, flowers, ferns, moss	Forest nuts	Wild Mushrooms	Truffles	Wild Berries	Wild medicinal and aromatic plants	Sap or resin
All consumed	75.7%	77.1%	85.2%	48.8%	89.0%	89.4%	74.3%
90% consumed	9.5%	5.3%	4.9%	18.3%	4.1%	3.8%	3.9%
75% consumed	6.0%	6.0%	4.3%	9.8%	2.6%	2.3%	10.1%
50% consumed	5.4%	5.8%	3.0%	9.6%	2.2%	2.0%	5.3%
25% consumed	1.6%	2.5%	1.4%	6.9%	0.9%	1.1%	1.8%
10% consumed	1.1%	1.7%	0.9%	7.7%	0.8%	0.9%	3.3%
All sold	0.8%	1.6%	0.4%	5.4%	0.4%	0.6%	1.5%

MORE SOLD THAN OTHERS

VALUE OF COLLECTED WFPs FOR ENTIRE EUROPE

- Weight of collected WFP: 375,520.16 tons
- Total value (with ornamental plants): 5,456.97 million Euros
- Average value per ha: 13.02 Euros
- Total value of WFPs including marketed animal products: 6,075.20 million Euros

Share of WFPs as % of value of total roundwood removals

- Without animal products - 29.9%
- With animal products - 33.3%

Value of **marketed** plant WFPs from State of Europe's forests 2015: 1,659 billion Euros

WFP: the most direct and frequent use of forests by Europeans



Organized provision of WFP as recreational, cultural, tourist and even sport services

- Many positive examples of business creation and income generation
- WFP: frequently a *Genus loci*, the main forest element of **forest identity** of a place
→ *imago* product (= brand of the territory)

Settimane Törggelen
Bel tempo e vino nuovo
Vino nuovo e raggi di sole. Le settimane escursionistiche "Törggelen" in allegra compagnia.
Il bel tempo d'autunno, il sole caldo e le antiche usanze risvegliano l'energia vitale e la voglia di vivere.
Degustate il vino nuovo, accompagnato da caldaroste, noci, salsiccia fatta in casa e costolette di maiale.

Settimane "Törggelen"
08.10.05-01.11.05 da Euro 385,00

I prezzi s'intendono a settimane e persona con trattamento di mezza pensione.

How to get there
Villages
Climate & Weather
Highlights
What to see
What to do
Where to stay
Special offers

Autumn walks with friends and calling in at mountain farmhouses or inns for refreshment - called Törggelen - is a favourite traditional activity in South Tyrol. The 'Neuen' (new wine made from grapes which a couple of weeks before were still in the vineyard) plays an important part, along with traditional dishes including 'Speck' (cured, cold smoked bacon), home made sausages with Sauerkraut or red cabbage, roast chestnuts followed by home made pastries, and much more. Törggelen is a delight for all lovers of genuine food and drink, especially when enjoyed outside in the warm autumn sunshine from October to mid-November.

On the left you will find informations on mountain restaurants offering snacks and new wine, mountain refuges and cable cars.

http://www.wanderhoteleuropa.com/it/wandern/angebote_05.html

Törggelen holydays: few days-one week holidays (normally for aged persons) based on

- roasted fresh chestnut +
 - walnut +
 - new red wine tasting +
 - speck and the meat
- organized in South Tyrol

Autumn - 'Törggele' time



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A WFP as imago product for marketing a *territoire*

- Traditional local products
- "Green" products
- "Slow food" culture



Social Innovation in Mediterranean forests

Example 2: Borgotaro network (territorial marketing)

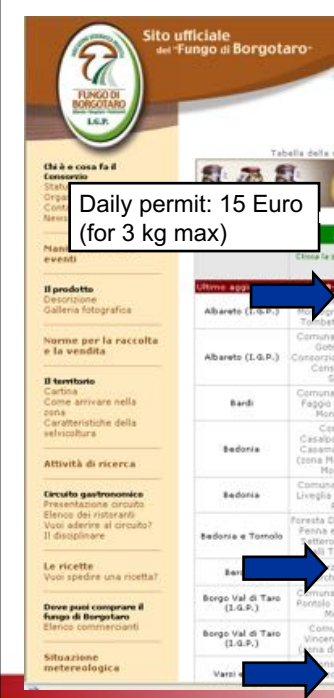


Enterprises: 62

- 15 Agro-tourisms/ Farm businesses
- 12 Hotels/Guest quarters
- 8 B&B/Inns/Hostels
- 9 Cheese, sausage and wine growing and producing factories
- 2 Didactic farms
- 3 Museums/Private collections
- 30 Restaurants/Porterhouses
- 26 Typical products sellers

Imago product:
Boletus mushroom





Daily permit: 15 Euro (for 3 kg max)

>> TESSERINO VERDE

Comunali di Gotra, Buzzò, Albareto, Boschetto, Groppo, Tombeto e Montegroppo in Comune di Albareto.

Verranno rilasciati tesserini di colore verde con le seguenti caratteristiche:

- * giornaliero (valido per il giorno indicato nel tesserino) :
costo: Euro 15,00 per i non residenti in Comune di Albareto; Euro 6,00 per i residenti nel Comune di Albareto nonché per i proprietari, ed affittuari con contratto almeno annuale, di seconde case nelle frazioni delle Comunali ;
- * semestrale (valido comunque non oltre il 15.11.2003):
costo: Euro 150,00 per i non residenti nei Comuni di Albareto Euro 67,00 per i residenti nel Comune di Albareto nonché per i proprietari, ed affittuari con contratto almeno annuale, di seconde case nelle frazioni delle Comunali

Modalità di accesso: i tesserini saranno vidimati , nel punto di vendita, con il timbro della Comunale di accesso, da personale incaricato dal Consiglio di Amministrazione.

Tale tesserino darà diritto all'accesso ad un'unica Comunale, pur consentendo di percorrere a piedi e di esercitare la raccolta nel territorio di tutte le Comunali facenti parte dell'area B) .

In considerazione dell'antica consuetudine di reciprocità fra le Comunali confinanti di S.Vincenzo-Rovinaglia in Comune di Borgotaro e Gotra, Buzzò e Albareto in Comune di Albareto è consentito agli utenti lo sconfinamento;

Per evitare un eccesso di carico giornaliero di cercatori con effetti negativi sulla capacità di rigenerazione dell'ecosistema, viene stabilito un numero massimo giornaliero di persone a cui consentire l'accesso come a seguito specificato:

- Comunali di Gotra e Buzzò n.100
- Comunali di Albareto n.700
- Comunali di Boschetto e Tombeto n.120
- Comunali di Groppo n.100
- Comunali di Montegroppo n.200

Giorni e orario di raccolta : martedì, sabato e domenica; la raccolta può essere effettuata a partire da un'ora prima della levata del sole, mentre l'uscita dall'area B) deve avvenire entro e non oltre le ore 15.

Quantitativi: non oltre 3 Kg .

Sito ufficiale del "Fungo di Borgotaro"

Tabella della raccolta dei funghi sponsorizzata da:

ACQUISTA ONLINE!
Funghi Percorsi secchi e sott'olio,
prodotti del sottobosco e cesti regalo.

COMUNE	ZONA	TESSERINO	CRESCITA
Ultimo aggiornamento: 27-10-2013			
Albareto (I.G.P.)	Comunale di Montegruppo, Grappo, Tombato e Busobotto	Verde	<input type="checkbox"/>
Albareto		Verde	<input type="checkbox"/>
Bardonecchia	Comunale di Bardonecchia (Monte Regolo)	Rozzo	<input type="checkbox"/>
Bardonecchia	Comunale di Bardonecchia (Monte Regolo)	Rozzo	<input type="checkbox"/>
Bardonecchia	Comunale di Bardonecchia (Monte Regolo)	Rozzo	<input type="checkbox"/>
Bardonecchia	Comunale di Bardonecchia (Monte Regolo)	Rozzo	<input type="checkbox"/>
Bedonia e Tomolo	Consorzio di Bedonia, Tomolo e Comuni di Satterone, Consorzio Valli Taro e Taroia.	Grigio	<input type="checkbox"/>
Bardonecchia	Consorzio di Bardonecchia, Corba e Valbona	Marrone	<input type="checkbox"/>
Borgo Val di Taro (I.G.P.)	Comunale di Basilica, Pontale (zona di Monte Malinico)	Blu	<input type="checkbox"/>
Borgo Val di Taro (I.G.P.)	Comunale di San Vincenzo e Valdega (zona di Val Tarodine)	Blu	<input type="checkbox"/>
Varese e Bardi	Consorzio Monte Bolognino (zona Tossa) e	Azzurro	<input type="checkbox"/>

Production areas

Type of permit

Growing rate

The effects of a proper system of P.R. regulations

TESAF Dipartimento Territorio e Sistemi Agro-Forestali

Università della Tuscia

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Cultural services

(Source: Krainer & Sallmannshofer (2018) mod.)

- Forest bathing and Forest therapy
- Social Forestry
- Educational activities
- Sport activities
- Nature art in forests
- Forest concerts
- ...

Forest bathing and Forest therapy

ASSOCIATION OF
Nature & Forest Therapy
GUIDES & PROGRAMS

HOME ABOUT THE ASSOCIATION THE SCIENCE GET STARTED WORKSHOPS AND RETREATS BECOME A GUIDE BLOG CONTACT

The medicine of being in the forest
We are the leading global voice for forest bathing and forest therapy

FREE FOREST THERAPY STARTER KIT

The Forest is the Therapist. The Guide Opens the Doors.

-H. Amos Clifford, Founder of the Association of Nature and Forest Therapy Guides and Programs

www.natureandforesttherapy.org

shinrin yoku Home Shinrin Yoku Programs Blog Become a Guide Contact Free Starter Kit

breathe relax wander touch listen heal

Introductory Videos on Shinrin-yoku Forest Therapy

Introduction to Shinrin-yoku, by M. Amos Clifford. Voice over a slide show of nature images photographed in Sonoma County.

Introduction to Forest Therapy, taped during a guide training session in September of 2014 in Sonoma County.

United States segment from a Korean Broadcasting System documentary looking at Forest Therapy in the U.S., Japan, and Korea.

www.shinrin-yoku.org

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Università degli Studi di Pavia

Forest bathing and Forest therapy

A Little Handbook of Shinrin-Yoku

M. Amos Clifford
www.shinrin-yoku.org

Read more: order the Little Handbook of Shinrin Yoku.

Written for leaders of Shinrin-Yoku walks, this book includes a philosophical as well as scientific basis for Shinrin-Yoku. The form of Shinrin-Yoku practice it describes draws on a wide range of nature connection and healing practices from many cultures.

The author, M. Amos Clifford, has been a wilderness guide and nature connection mentor for over 40 years. He succinctly describes core activities and how to use them safely in the field. These include sample activities to engage each of eight senses with nature. The booklet is 40 pages with recommendations for in-depth reading.

Paperback, saddle-stitched, 40pp. The price includes shipping via U.S. Post. Please allow 2-4 weeks for delivery.

Outside the U.S. \$13 USD*

*Shipping not included

Buy Now

Forest Bathing
A COLLECTION

REAL MUSTO

TESAF Dipartimento Territorio e Sistemi Agro-Forestali

Università degli Studi di Pavia

Some experiences in Italy

Bosco del Sorriso
Oasi Zegna – (Biella)
3 percorsi
www.oasizegna.com

Trentino, primo sentiero: Fai della Paganella - giugno 2018
www.vissitrentino.info/it/articoli/natura-benessere/forest-bathing

ANDIAMO IN
TUSCIA
PRENOTA

BOSCO DI SASSETO
LUNGHEZZA: 13 KM
LIVELLO: MEDIO
MIGLIORI APPRENDISTA
SILVIVELLO: 450 M
GUIDA: CLAUDIA, GIULIA

DESCRIZIONE
Il forest bathing, cioè il camminare nella foresta, è una pratica giapponese che migliora il nostro benessere, le nostre difese immunitarie e la resistenza allo stress. Questa volta per il nostro trekking rigenerante ci spingeremo oltre i confini meridionale della Toscana. A pochi chilometri da Acquapendente esiste un bosco incantato, il Bosco del Sasseto, dove la natura esprime una forza antica e misteriosa. Il percorso si snoderà attraverso grandi massi vulcanici, verdi di muschi, felci, alberi maestosi e tronchi contorti: al cospetto di questa meraviglia beneficeremo del forest bathing.
Per i contributi fotografici Kilometro Inverso ringrazia Giovanni Cappelli ed Elisabetta Guliani.

Bosco di Sasseto - www.kilometroinverso.com/bosco-di-sasseto/

Il Roccone: un viaggio nella storia, nella natura e nei sapori del Monte Amiata

Il Roccone è lo sperone di roccia dove sorge da oltre un secolo e mezzo il Casale il Roccone, al centro della Riserva naturale del Piglietto, ai piedi del Monte Amiata, in provincia di Siena. Si tratta di uno dei luoghi più selvaggi e tranquilli della Toscana, tra la Val d'Orcia e la Maremma.

Il Casale, appena ristrutturato, può ospitare 12 persone ed è articolato in ampi spazi interni. La proprietà comprende un centro storico seicentesco, sentieri guidati, con un clima molto fresco d'estate perché la proprietà è situata a 800 mt di altitudine.

La natura presente in questo luogo si può vivere in ogni stagione con molta intensità. E' infatti il luogo ideale per praticare il Forest Bathing e per godere il panorama dall'acqua anche in pieno inverno grazie alla vasca esterna ecologica in legno che ha una capacità di 7 persone.

Forest therapy

Branching Out

Branching Out is an innovative development for adults who use mental health services in Scotland. For each client, the service consists of around three hours of activities per week in a woodland setting, over 12 weeks.

Activities are adapted to suit the client group, site and time of year, and generally include:

- Physical activity e.g. health walks and tai chi.
- Conservation activities e.g. rhododendron clearance and bird box construction.
- Bushcraft, e.g. fire lighting and shelter building.
- Environmental art e.g. photography and willow sculptures.

<http://scotland.forestry.gov.uk/supporting/strategy-policy-guidance/health-strategy/branching-out>

Benefits in terms of *Quality-Adjusted Life Years (QALYs)*
Costs/QALY = 50% of the costs of ordinary medical treatments

Social forestry

Arbeitsort WALD

Menschen ohne Beschäftigung wünschen sich meist nichts sehnlicher, als endlich wieder arbeiten zu dürfen. Mit Arbeit geht nicht nur finanzieller Verdienst einher, Arbeit wirkt sinnstiftend und hilft sich als aktiver Teil der Gesellschaft zu empfinden.

Der Wald kann Ort für solche Beschäftigungen sein und Türen in neue Arbeitswelten öffnen.

Kooperationspartner gesucht!
 Wir suchen Waldbesitzerinnen und -besitzer sowie Forstbetriebe, die ein Zeichen für soziale Verantwortung setzen möchten und arbeitssuchenden Menschen beim Wiedereinstieg in den Arbeitsmarkt unter die Arme greifen wollen. Sinnvolle Beschäftigungsmöglichkeiten in der Land- und Forstwirtschaft für Menschen mit Behinderung sind ebenfalls ein wichtiger Tätigkeitsbereich von Green Care.

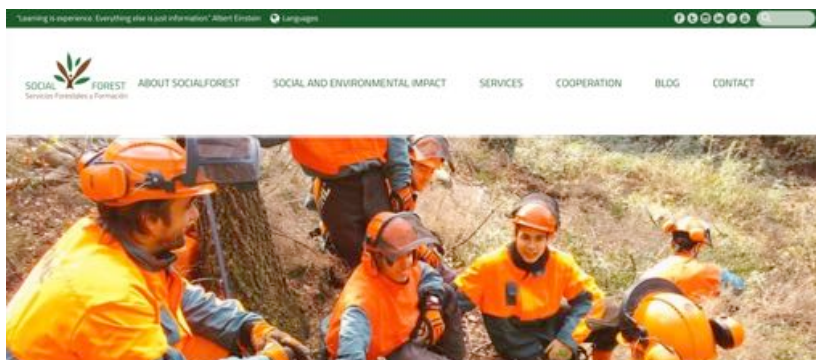
Praxisbeispiele
 Der Wald kann auf vielseitige Weise Ort für sinnstiftende Betätigungen sein:
 Soziale WALDarbeit
 Der Wald als Ort der Begegnung

MIT UNTERSTÜTZUNG VON BUND, LÄNDERN UND EUROPÄISCHER UNION

<https://bfw.ac.at>

Social forestry

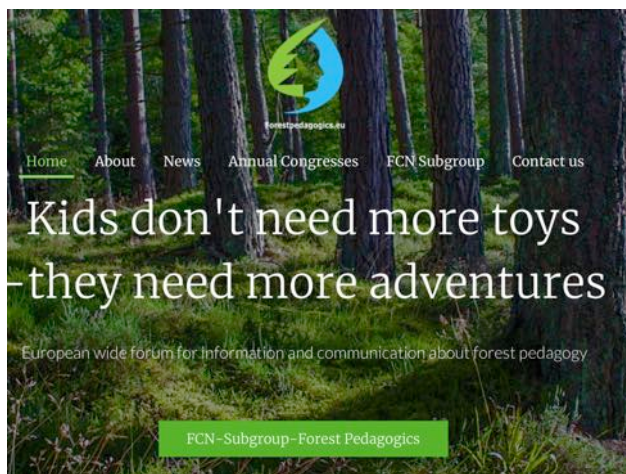
<http://socialforest.org/en/>



Training and works organized to include young unemployed, elderly people, persons with mental and physical handicaps, prisoners, emigrants, ...



Educational activities (forest pedagogy)



<http://forestpedagogics.eu>



Educational activities (forest pedagogy)



First examples in DK in the '50s

German model exported to other countries (JAP, CAN, USA)

- Rund um den Natur- und Waldkindergarten
- Stellenangebote
 - Angebote eintragen
 - Weiterbildung
 - VHS, Studien
 - Natur- und Waldkindergärten
 - Gründen, Verein & Co.
 - Wäldtage-Waldwochen
 - Kontakt & Netzwerke
 - Bildung & Gesundheit
 - Petition & Kampagne
 - Wissenswertes
 - Fachzeitschriften
 - Fachartikel
 - Literatur
 - Film & Audio
 - Dies & Das
 - Archiv -> Aus der Praxis
 - Archiv -> Pädagogik
 - Archiv -> Mitarbeiter & Ehrenamt

BvNW NEWS
Bei uns finden Sie Aktuelles aus der Welt der Natur- u. Wissenswertes und Neues rund um Mensch, Natur u. breites Informationsspektrum, auch außerhalb des Medien-Mainstreams.

Campfire Kids Going Back to Nature with Forest Kindergartens

Radical back-to-nature forest kindergartens where children are allowed to climb trees and play with fire have spread across the country. Will the concept of the Waldkindergarten become Germany's next export success?

By Rupert Neate



German 'Wald kindergarten' Association
www.bvnw.de

www.spiegel.de/international/zeitgeist/forest-kindergartens-could-be-the-next-big-export-from-germany-a-935165.html

FRILUFTS FRÄMJANDET
LÅT ÄVENTYRET BÖRJA
ENGAGERA DIG
DETTA GÖR VI

VÅR VERKSAMHET
FRILUFTSAKADEMIEN
FÖRSKOLOR OCH SKOLOR
SAMHÄLLSPÅVERKAN
OM OSS

SKOGSMULLE I FÖRSKOLAN

I UR OCH SKUR

- Må i Ur och Skur
- Utbildning
- Våra förskolor
- För vårdnadshavare
- Aktuellt
- Lediga jobb

SKOGSHJÄLTARNA

PEDAGOGIKEN

VÅRA FÖRSKOLOR & SKOLOR

BLI EN FRILUFTSFRÄMJANDET-FÖRSKOLA

Forest Kindergarten
International
Federation

@forestkindergarteninternational
federation

ČESKÁ REPUBLIKA | VĚSTĚNÍ LESNÍ MŠ

ÚVOD | LESNÍ MŠ | ASOCIACE LMŠ | VZDĚLÁVÁNÍ | PROJEKTY | MÉDIA | KONTRATY | SPÁNÍM / NABÍDKA

Jíme zdravě!

V LESE

U MAMINKY

VIČE INFORMACÍ

NAJIT NEJBLIŽŠÍ LESNÍ MŠ

Zadejte kraj či město

Pročtete aktuální poločku

PRO RODIČE
PRO PEDAGOGY
PRO ČLENY

Sweden - www.friluftsfraemandet.se/iurochskur

Check Republic - www.lesnims.cz

www.facebook.com/forestkindergarteninternational/

Educational activities (forest pedagogy)

>60 sites monitored in Italy
(April 2018):

- 45 forest nursery school

Many other not monitored
experiences

>100 total sites (estimated)



www.asionelbosco.com/wp/la-mappa-delle-esperienze-in-natura/



Sport activities



A best practice

England's Woods & Forests

Recreation home page

- Explore forests and woods
- Staying active
- Forest Fitness: Get active in your local forest
- Running
- Sport and exercise survey terms and conditions



Discover the freedom of the forest...
every day of the year...

Get free parking, discounts on events and much more with an annual **Discovery Pass**

Tell us what sport & exercise you do in the forest...

Complete our online survey below

Get active in your woods and forests

 Fresh air, inspirational scenery and traffic free, our forests are a great choice for sports and exercise

Help us take care of your forest

Biossecurity advice for forest visitors

www.forestry.gov.uk/sport

Active Forest pilot programme (UK), 2014-2017:

- 5 monitored sites
- >700,000 visitors
- 1/3 families with kids <16 year
- >90% new visit in the following 3 months
- 2° phase (2017-2022): 20 monitorati sites

www.forestry.gov.uk/fr/bee-h-a3hkmk
Report: O'Brien & Forster, 2017



Departamento Territorio e Sistema Agro-Forestal



2018 TRAIL SACRED FORESTS

TI ASPETTIAMO IL 26 MAGGIO PER GIOIRE ANCORA ASSIEME

INIZIANDO DAL 1 FEBBRAIO

SACRED FORESTS LONG TRAIL (OPEN)
50KM - 3.000M+ • 12-18 € (per 12) • 26 maggio 2018

Regolamento

Scopri alle gare

Verifica la tua iscrizione

Programma

Il percorso

SACRED FORESTS TRAIL (OPEN)
24KM - 1.500M+ • 26 maggio 2018

Regolamento

Scopri alle gare

Verifica la tua iscrizione

Programma

Il percorso


DOVE DORMIRE

Scopri le strutture e i servizi dove dormire durante la gara

Scopri

Dove Siamo

Le meravigliose location dove si svolgerà il trail



Scopri

SACRED FORESTS SHORT TRAIL (OPEN)
14KM - 800M+ • 26 maggio 2018

Regolamento

Scopri alle gare

Verifica la tua iscrizione

Programma

Il percorso

SCOCAMARINA HORDIC WALKING (OPEN)
18KM - 45KM • 26 maggio 2018

Regolamento

Scopri alle gare

Verifica la tua iscrizione

Programma


Il percorso

FOTO GALLERY


Scopri le foto di Trail Sacred Forests

Scopri

<http://trailsacredforests.com>



Departamento Territorio e Sistema Agro-Forestal





**MEZZOMERICO
FOREST
RACE**

• Iscriviti al gruppo

Foto Album Video



www.prolocomezzomerico.it/forestrace.aspx

Eventi sportivi (2/2)

CONERO FOREST RACE.
ALLA SELVA DI CALLIGNANO
E BUONA LA PRIMA.

Una giornata da semi-marathon di domenica alla Selva di Callignano con la prima volta di una competizione OCR organizzata dalla Conero Wellness. In
Bosco di Callignano: 18 percorsi, 20 squadre composte ciascuna da due uomini e una donna, 10 giochi ideati e almeno mille metri.






www.conerowellness.com








Adventure parks







www.parchiavventuraitaliani.it/


More than 220 parks in
Italy (April 2018)




ARTESELLA
THE CONTEMPORARY
MOUNTAIN

[HOME](#) [CHI SIAMO](#) [COSA FARE](#) [INFO](#) [MULTIMEDIA](#) [PARTNER](#) [EN](#)





Nature Art
exhibitions



Artesella: the contemporary mountain. Un processo di cammino trentennale ha visto incontrarsi linguaggi artistico accomunati dal desiderio di interessare un fecondo e contornato mondo naturale.

www.artesella.it

Started in 1986
70,000 visitors/yr

Nature Art exhibitions



Menu Principale

- Home
- Il Bosco
- Artisti
- Forest Magic Mountain
- La Pineta
- Standard
- Gioco di Invenzione
- Musei e Scuole
- Parlino di noi
- Il Vivaio del Bosco
- Dove siamo

Home

130 ettari di bosco, 12 chilometri di comodi sentieri con 1000 opere di 600 artisti



Il Bosco

è un luogo per la mente, dove anche il corpo sta bene, e i pensieri sgargiano, e la pelle respira. È un percorso nel verde a Dolo*, in provincia di Verona, al confine con il Trentino - con pinete e stagni di artisti italiani e internazionali, tra i quali Aldo Marchi, Andrea Zanzotto, Patricia Cavalli, Nanni Balestrino, Maurizio Calvesi, Arturo Schwarz, Nicola De Maria, Luigi Ontani e moltissimi altri.

Gli artisti

Ad aprire il percorso, una pineta donata da Papa Giovanni Paolo II Karol Wojtyła, inizia la pineta. Accanto, un percorso donato da Susa Saravali, Alkaama il Dadaï Lama, poi due grandi pinete realizzate dall'artista francese Ben Vautier. Le opere ad oggi sono più di 1000 con oltre 600 artisti.

Ca' la Ghironda
ModernArtMuseum

home museo spazio atelier parco centro congressi

In primo piano



cec'è Ca' la Ghironda

Seleziona lingua ▼

cec'è Ca' la Ghironda

collezione museo contatti | newsletter dove siamo come raggiungerci orari | biglietti | convenzioni visite e attività per gruppi

sezione didattica scuola bambini e famiglie adulti, nonni & società offerta didattica progetti e rassegne

Ca' la Ghironda ModernArtMuseum è un'area Museale inserita in un contesto architettonico di nuovissima concezione. In un Parco di 10 ettari, a pochi metri dal centro di Bologna, sulle prime pendici dei colli bolognesi, vicinissimo all'Appennino Tosco-Emiliano (in pieno territorio dei "4 A strada dei Vini e dei Sapori - Cisa - Castelli - Cilegli, Collina tra Bologna e Modena", zona distante da Maranello) e nel sacro dell'area Bazzanesa/Vil. Sanroggia, a pochi minuti anche da Casalecchio di Reno, Bazzano e Vignola, tutti territori di eccellenza e di rappresentanza mondiale per i loro patrimoni artistico, naturalistico, gastronomico e labirintico-culturali, oltre alle strade dei nocci (Piemonte, Lombardia e Ducati) e alle fere di prodotto internazionali.

www.ghironda.it

www.boscodeipoeti.it




25

Forest concerts

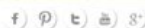
A collage of images related to forest concerts. On the left, a screenshot from the website www.isuonidelledolomiti.it/ shows a scenic view of the Dolomites mountains with the text "I SUONI DELLE DOLOMITI Dal 30 giugno al 31 agosto 2018". In the center, there are two smaller images: one of a person in a mountain landscape and another of a group of people sitting on a rocky outcrop. On the right, a large photograph shows a group of people sitting on the ground in a forest, listening to music. Below these images is a banner for the "RAVENNA FESTIVAL" featuring a "CONCERTO TREKKING per SASSO FRATINO" on June 4th, 2017, at 10:00 - 12:00. The banner also includes the text "4 GIUGNO | ORE 10 | CONCERTO TREKKING UNA FORESTA DI SUONI, LA MUSICA IN CAMMINO PER SASSO FRATINO" and the website www.ravennafestival.org.

Funeral forests

<http://boschivivi.it>

A screenshot of the website boschivivi.it. The top navigation bar includes "Home", "Chi siamo", "Servizio", "Prenota", "Animale", "News", and "Contatti". The main content area features a large image of a cat perched on a tree branch with the text "UN GESTO D'AMORE PER IL TUO AMICO ANIMALE". Below this, a banner states "Boschi Vivi offre la possibilità di interrimento delle ceneri del tuo animale". The bottom section is divided into four columns: "I NOSTRI ALBERI" (describing different types of trees), "ALBERO DI COMUNITÀ" (describing a shared tree for the community), "ALBERO PERSONALE" (describing a personal tree for direct contact with nature), and "ALBERO PARTNER" (describing a tree for sharing memories). The footer includes the logo for "TESAF Dipartimento Territorio e Sistemi Agro-Forestali" and the "UNIVERSITÀ DEGLI STUDI DI PADOVA".

“Ecological” burial



Capsula Mundi. Una morte piena di vita.

Capsula Mundi è una proposta culturale, un progetto ampio, che propone un diverso approccio al tema della morte. È un contenitore dalla forma arcaica e perfetta, quella dell'uovo, realizzato con un materiale biodegradabile, nel quale viene posto il corpo del defunto in posizione fetale o le ceneri. La Capsula è messa a dimora come un seme nella terra. Sopra di essa viene piantato un albero, scelto in vita dal defunto, che verrà curato da familiari e amici, come un'eredità per i posteri e per il futuro del pianeta. Il cimitero assumerà dunque un nuovo aspetto, non più grigio lapidi di pietra ma alberi vivi a formare un bosco, un bosco sacro. Il progetto è al momento in una fase di start-up ma, sostenuti dal grande entusiasmo suscitato da questa idea in tutto il mondo, stiamo lavorando per renderlo una realtà.

www.capsulamundi.it

TESAF Dipartimento Territorio
e Sistemi Agro-Forestali



www.ecostarhub.com

TESAF Dipartimento Territorio
e Sistemi Agro-Forestali



Outline

- Introduction: a changing context
- NWFP, better: WFP
- Cultural services: a world of opportunities
- **Conclusion**

A rather different model: the Äänekoski plant (FIN)

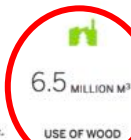


<http://bioproductmill.com>



Äänekoski bioproduct mill

- Largest investment in the history of Finnish forest industry
- **100%** of wood raw material used
- **1.3 million tonnes** of pulp/year + bioproducts (e.g. textile fibres, biocomposites, lignin products, fertilisers...) and bioenergy
- **+4.000 jobs** created (including value chain and consumption) → **61.000 jobs** expected in 30 years



For giving value these forest services

- **Diversification** in the use of forest resources
- **Technological innovations** and large **financial capitals** are not much requested
- **Small-scale** solutions, integration of many different activities
- **Social innovations** are much needed (networking, public-private partnership, ...)
- **Benefit-cost** assessment and **communication** is essential (starting from the value of **natural capital** and of **ES**)

Here there is a special role to be played by State forests

- ... as managers of large, well organized, rich forests
- ... if they implement their role of institutions aimed at the welfare of the society, more than at profit maximization

