



MINISTERO DELL'AMBIENTE
E DELLA TUTELA DEL TERRITORIO E DEL MARE



THE ALPINE CONVENTION IS THE FIRST INTERNATIONAL TREATY FOR THE PROTECTION AND PROMOTION OF THE SUSTAINABLE DEVELOPMENT OF A CROSS-BORDER MOUNTAINOUS REGION
italian presidency 2013-2014
alpine convention

“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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info@alpcnv.org

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The Due Diligence Regulation and the promotion of local wood chain as a leverage for an alpine green economy

Claudio Garrone

FederlegnoArredo – Forestry Office



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Italian national and local forest:
the largest and most important “not delocalisable” infrastructure of our country

DECISION 529/2013/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 21 May 2013

REGULATION (EU) 995/2010/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 October 2010

Project
“SCORE”

EXISTING GOOD PRACTICES

- RE.NER.FOR.
- INTER-BOIS
- Foresta Modello delle Montagne Fiorentine
- Ambiente VALTELLINA Onlus

ThermoWood®



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LET'S START FROM HERE.....!!!!

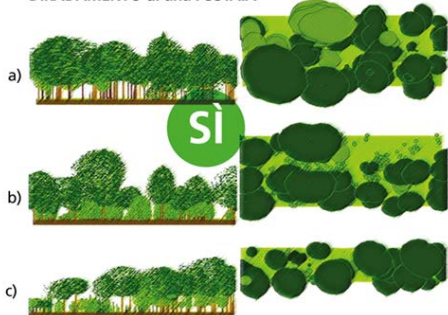
METODI DI GESTIONE DEL BOSCO

GESTIRE BOSCO = (ANCHE) TAGLIARE secondo le buone regole della corretta GESTIONE FORESTALE SOSTENIBILE

TAGLIO DI UN BOSCO CEDUO

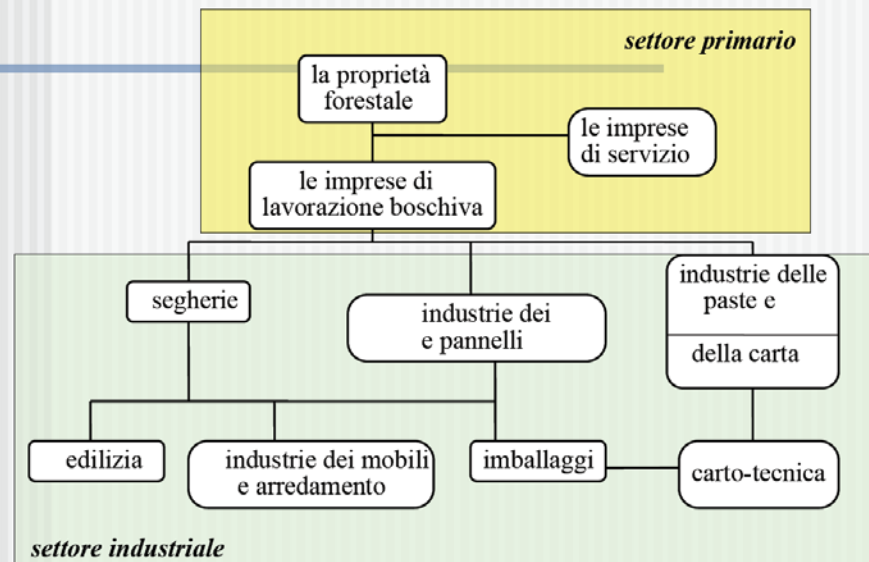


DIRADAMENTO di una FUSTAIA



- DEFORESTARE, invece, vuol dire applicare tagli irregolari per:
- mancato rispetto delle regole della gestione forestale sostenibile
 - mancato rispetto norme di concessione
 - Contrabbando di legname (violazione di limiti all'export e all'import)
 - Dichiarazioni false relative alle dimensioni, alla qualità, al valore della merce
 - Contabilità falsificata

Il sistema foresta-legno



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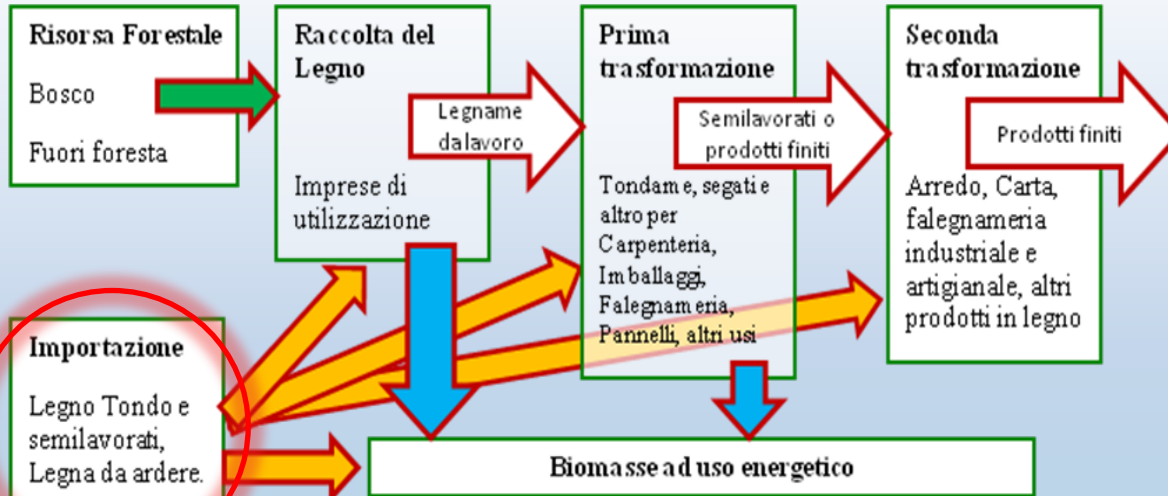


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> 80 %

First importer of timber in Europe
World's largest importer of firewood
Fourth largest importer of wood chips



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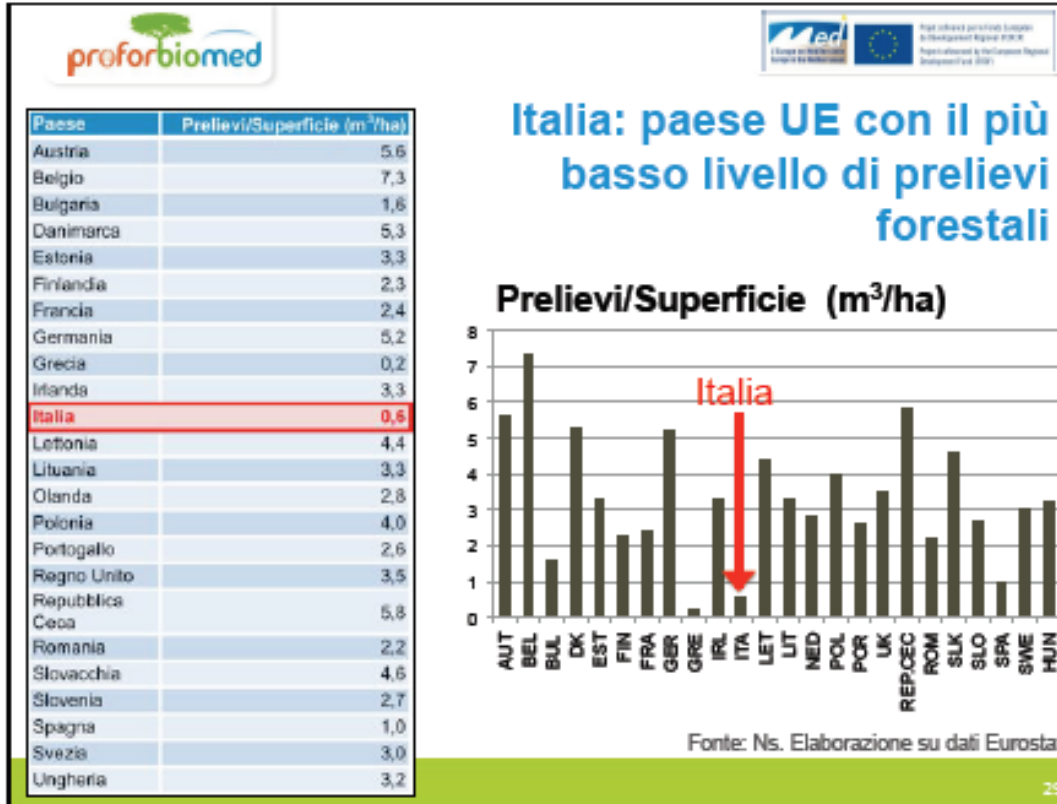


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Anche triplicando il livello di prelievi ufficiali, questi rimarrebbero molto inferiori all'incremento.



POTENZIALITA' ENORMI

Font: Agenzia Europea dell'Ambiente,
12 giugno 2011



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Using wood responsibly



Dresden's Resolution (24.10.2010)

- European Panel Federation
- Verband der Deutschen Holzwerkstoffindustrie e. V.

Holz verantwortungsvoll nutzen - Dresdner Resolution -



Die stoffliche Nutzung nachwachsender Rohstoffe ist ein wichtiger Beitrag zum Klima- und Umweltschutz. Vor allem Holz leistet durch die Speicherung von Kohlenstoff in langlebigen Holzprodukten, wie beispielsweise Möbel, Bauelementen oder Bauholz, einen entscheidenden Beitrag zur Abschwächung des Klimawandels. In jedem Kubikmeter Holz sind rund 250 Kilogramm Kohlenstoff gespeichert. In über 300.000 Betrieben stellt die Holzindustrie in der EU27 fast 3 Mio. Arbeitsplätze und erwirtschaftet einen Jahresumsatz von rund 270 Mrd. Euro. Allein in Deutschland finden über 500.000 Beschäftigte einen Arbeitsplatz in der Holzwirtschaft. 100 m³ stoffliche Holznutzung sichert einen Arbeitsplatz/Jahr (Quelle: vTI). Holz findet vielfältige Einsatzmöglichkeiten in den Bereichen Bauen und Modernisieren, Inneneinrichtung und Wohnen, dem Transport- und Verpackungswesen. Die unterschiedlichen Märkte bieten hohe Wachstumspotenziale.

Die politische Förderung mit umfangreichen Subventionen zur energetischen Verwertung stofflich nutzbarer Holzsortimente in immer mehr Kleinfeuerungsanlagen oder neuen Biomasseanlagen führen zu einer enormen Holzverknapfung und zum Verlust von Arbeitsplätzen. Ferner besteht die Gefahr, dass Holz durch andere Materialien, die eine wesentlich negativere Energie- und Umweltbilanz aufweisen, substituiert wird. Zahlreiche Studien und Berechnungen nationaler und internationaler Organisationen haben z.B. für Deutschland eine Deckungslücke von 20 - 40 Mio. m³ Holz und für Europa von 430 Mio. m³ Holz für das Jahr 2020 ergeben. Das 3. Symposium "Waldstrategie 2020" des Bundesministeriums für Ernährung, Landwirtschaft und Verbraucherschutz im April 2010 in Berlin hat gezeigt, dass weder eine verstärkte Holzmobilisierung, eine Verkürzung der Umtriebszeiten, der Anbau von Kurzumtriebsplantagen, die Änderung der Baumartenwahl oder Maßnahmen der Forstgenetik allein oder in Kombination in der Lage sind, dieses bevorstehende Defizit auszugleichen. Auch der verstärkte Import aus Übersee scheidet aus ökologischen und sozio-ökonomischen Gründen aus.

Die Mitgliederversammlungen 2010 von EPF (European Panel Federation) und VHI (Verband der Deutschen Holzwerkstoffindustrie) in Dresden fordern die Europäische Kommission und die Bundesregierung auf, faire Wettbewerbsbedingungen zwischen stofflicher und energetischer Holzverwendung herzustellen und insbesondere

- die Subventionen für die direkte Verbrennung von zunächst stofflichen nutzbaren Holzsortimenten sofort zu stoppen (z. B. in Deutschland reduzierte Umsatzsteuer für Brennholz, keine Ökosteuern, Marktanzreizprogramm);
- Gesetzesvorhaben an die Notwendigkeiten einer Kaskadennutzung von Holz anzupassen (z. B. in Deutschland das Kreislaufwirtschaftsgesetz und das Erneuerbare-Energien-Gesetz (EEG));

- 2
- bei der Erarbeitung nationaler Energiekonzepte zum künftigen Energiemix die erforderliche Rohstoffbasis der Holzindustrie zu berücksichtigen (in Deutschland, z. B. das Energiekonzept der Bundesregierung);
 - die Forschungs- und Entwicklungsarbeiten zur verstärkten Kaskadennutzung von Holz (erst stofflich und dann energetisch) zu intensivieren;
 - auf staatseigenen Waldflächen vermehrt Energiewälder oder Kurzumtriebsplantagen anzulegen und sich für eine Flächenbereitstellung auf allen regionalen Ebenen einzusetzen;
 - die rechtlichen Rahmenbedingungen so auszugestalten, dass Holz für eine energetische Nutzung zukünftig zusätzlich aus Kurzumtriebsplantagen auf geeigneten Acker- und/oder Grünlandflächen gewonnen werden kann;
 - sicherzustellen, dass bei der Planung weiterer Biomassefeuerungs-/Verbrennungsanlagen ein belastbares Gutachten zu den vorhandenen Rohstoffpotenzialen unter Einbeziehung der vor Ort ansässigen Betriebe der Holzindustrie vorzulegen ist (in Deutschland müssen Anlagen mit EEG-Förderung künftig auf Holz der Kategorien A III und A IV gemäß Altholzverordnung ausgelegt sein und zudem muss die noch zur Verfügung stehende Wärme genutzt werden);
 - den Aktionsplan der deutschen Bundesregierung zur stofflichen Nutzung nachwachsender Rohstoffe vom August 2009 im Rahmen der Waldstrategie 2020 umzusetzen und die vom nova-Institut GmbH, Hürth erarbeiteten Vorschläge zu einer Neuausrichtung der förderpolitischen Rahmenbedingungen zwischen energetischer und stofflicher Nutzung zu prüfen und umzusetzen.

Die Europäische Kommission und alle Mitgliedstaaten der EU werden aufgefordert mit der Ressource Holz verantwortungsvoll umzugehen, die europäischen und nationalen Zielvorgaben im Bereich der Erneuerbaren Energien für Holzbiomasse zu überprüfen und diese an die tatsächlichen Potenziale anzupassen.

Dresden, 24. Juni 2010

Laszlo Döry
Präsident EPF

Hubertus Flötotto
Vorsitzender VHI



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WHY IS RIGHT TO USE THE WOOD.....

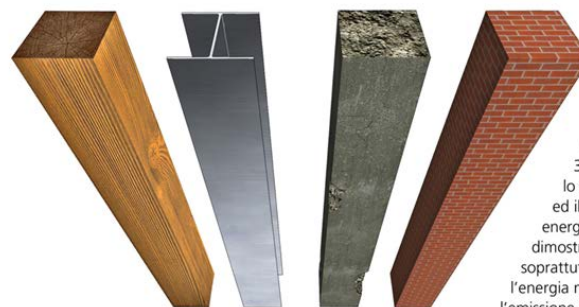
USARE IL LEGNO, VUOL DIRE TUTELARE ATTIVAMENTE IL CLIMA.



Attraverso la fotosintesi, gli alberi assorbono (stoccano) circa 1,9 tonnellate di CO₂ per ogni tonnellata di legno prodotta, rilasciano O₂ (ossigeno) e immagazzinano 500 Kg di CO₂

GRAFICA: HOLZBAZTFOND 2006 - GERMANIA

EFFETTO AMBIENTALE” DI SOSTITUZIONE DEL LEGNO



Le emissioni di CO₂ derivanti dalla produzione di diversi pilastri di lunghezza 3 m, progettati per sostenere lo stesso carico di 20 kN, ed il calcolo del consumo di energia per la loro fabbricazione dimostrano i vantaggi del legno, soprattutto rispetto all'acciaio: l'energia necessaria (e, quindi, anche l'emissione di CO₂) per produrre un pilastro – a parità di carico portante – è 9 volte superiore per l'acciaio rispetto al legno, di conseguenza scegliere un materiale con un più basso input di energia, oltre a permettere un risparmio energetico, permette di ridurre i problemi ambientali derivanti dal processo produttivo dei diversi materiali.

	LEGNO	ACCIAIO	CEMENTO	LATERIZIO
Peso	60 kg	78 kg	300 kg	420 kg
Input di energia primaria per la produzione	60 kWh	561 kWh	221 kWh	108 kWh
Conseguenti emissioni di CO ₂ *				
Peso	15 kg	136 kg	54 kg	26 kg
Proporzione	1	9,1	3,6	1,7

* Calcolo basato sulla media delle emissioni di CO₂ in Germania derivanti dal consumo di energia primaria nel periodo 1990-1995



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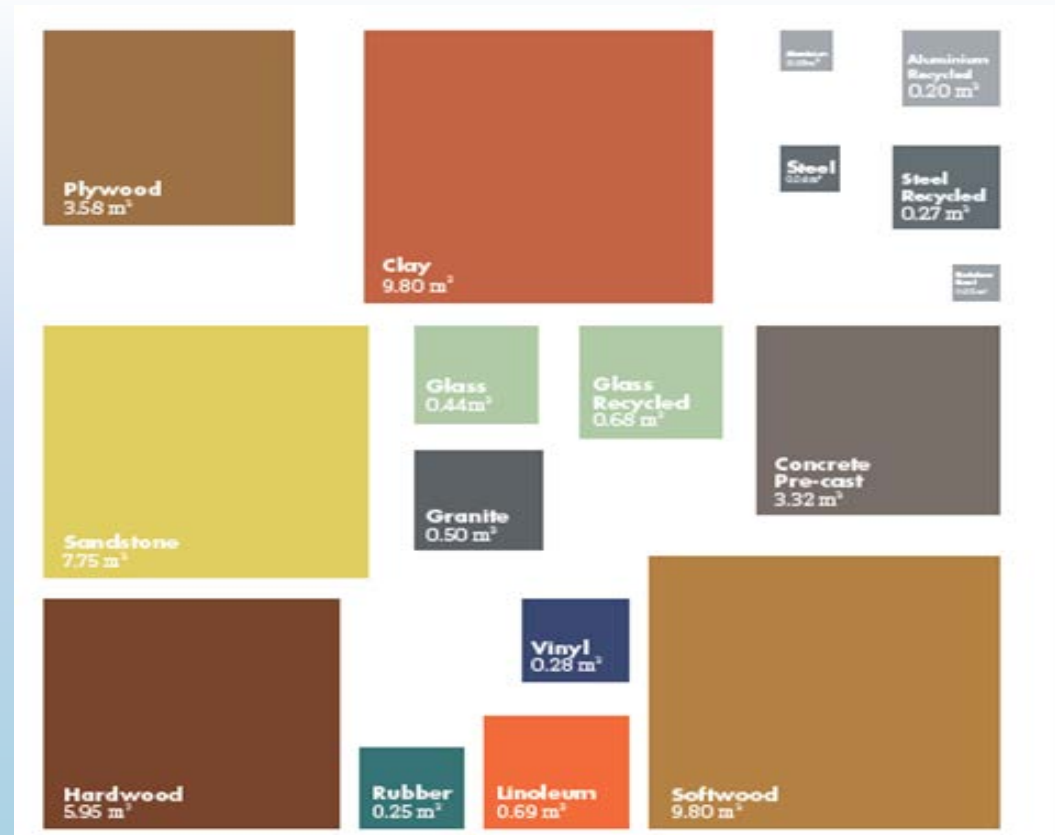
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Volume of produced material for an equal amount of CO₂ emissions



Plywood	3,58 m ³
Clay (argilla)	9,80 m³
Aluminum	0,03 m³
Aluminum recycled	0,20 m ³
Steel recycled	0,27 m ³
Steel	0,04 m³
Steel inox	0,02 m³
Sandstone (Arenaria)	7,75 m ³
Hardwood	5,95 m³
Glas	0,44 m ³
Glas recycled	0,68 m ³
Granite (Granito)	0,50 m ³
Concrete Pre-cast	3,32 m ³
Vinyl	0,28 m³
Linoleum	0,69 m ³
Rubber (Gomma)	0,25 m ³
Softwood	9,80 m³



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DECISION EU 529/2013/EU – What's about ?

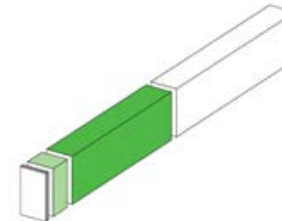
More info about this superstition:

"Knocking on wood" is an expression / superstition that is used in the hope that a really good thing shall continue after it has been recognized. For example, someone might say "The sun is shining for a week now... Hopefully it will shine the whole week..." and then "Knock on wood" for 3 times.
The expression is used all over the world. We collected some of them for you:

-  Belgium: HOUT VASTHOUDEN - they don't knock on wood, they touch wood instead!
-  Brazil: BATER NA MADEIRA - means exactly the same!
-  Denmark: BANK UNDER BORDET - knock under the table!
-  Germany: AUF HOLZ KLOPFEN - it has the exact same meaning!
-  France: TOUCHER DU BOIS - it means the same!
-  Italy: TOCCARE FERRO - here the people touch or knock metal!
-  Netherlands: AFKLOPPEN - means the same!
-  Poland: ODPUKAC W NIEMALOWANE - in Poland people have to touch "unpainted" wood!
-  Russia: ПОСТУЧИ ПО ДЕРЕВУ - Means the same!
-  Spain: TOCAR MADERA - means the same!
-  United Kingdom: TOUCH WOOD - quite the same meaning.



1 m³ Holz enthält
(absolut trocken)



250 kg Kohlenstoff (≈0,9tCO₂)
215 kg Sauerstoff
30 kg Wasserstoff
5 kg diverse Elemente



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Article 7 - Accounting rules for harvested wood products

1. Each Member State shall reflect in **its accounts pursuant to Article 3(1), (2) and (3) emissions and removals** resulting from changes in the **pool of harvested wood products**, including emissions from harvested wood products removed from its forests **prior to 1 January 2013**. Emissions from harvested wood products already accounted for under the Kyoto Protocol during the period from 2008 to 2012 on the basis of **instantaneous oxidation** shall be excluded.

2. In accounts pursuant to Article 3(1), (2) and (3) relating to harvested wood products, Member States shall reflect emissions and removals resulting from changes in the pool of harvested wood products falling within the following categories using the **first order decay function** and the **default half-life values** specified in **Annex III**:

- (a) paper;
- (b) wood panels;
- (c) sawn wood.

[...] Harvested wood products resulting from deforestation shall be accounted for on the basis of **instantaneous oxidation**.

5. Imported harvested wood products, irrespective of their origin, shall not be accounted for by the importing Member State. Member States shall therefore reflect emissions and removals from harvested wood products in their accounts only where those emissions and removals result from harvested wood products removed from lands included in their accounts pursuant to Article 3(1), (2) and (3).

ANNEX III

FIRST ORDER DECAY FUNCTION AND DEFAULT HALF-LIFE VALUES REFERRED TO IN ARTICLE 7

First order decay function starting with $i = 1900$ and continuing to present year:

$$(A) C(i + 1) = e^{-k} \cdot C(i) + \left[\left(\frac{1 - e^{-k}}{k} \right) \right] \cdot \text{Inflow}(i)$$

with $C(1900) = 0.0$

$$(B) \Delta C(i) = C(i + 1) - C(i)$$

where:

$i = \text{year}$

$C(i)$ = the carbon stock of the harvested wood products pool in the beginning of year i , Gg C

k = decay constant of first-order decay given in units of year⁻¹ ($k = \ln(2)/HL$, where HL is half-life of the harvested wood products pool in years.)

$\text{Inflow}(i)$ = the inflow to the harvested wood products pool during year i , Gg C year⁻¹

$\Delta C(i)$ = carbon stock change of the harvested wood products pool during year i , Gg C year⁻¹,



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- WHAT KIND OF WOOD?
- WOOD FROM LEGAL SOURCE ?
- WOOD CUT INTO A RIGHT WAY ?



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LEGNO ILLEGALE

The illegal timber trade cause a **loss of economic value to the industry and forest owners** estimated at around **10 billion euro per year**



Approximately **15 to 20% of GHG** (greenhouse gas emissions) is caused by the **continuous degradation and exploitation** of forests

The estimated share of the cuts on **illegal timber imports in the EU** is around **20%**



The illegal timber is sold at a **price from 7% to 16% lower**, as it does not include the costs of reforestation, **tax or the payment of other levies**

Almost 50 million people worldwide are living in **forests** which are threatened by **illegal logging** and are depending on the stability of these areas



Italy depends on **foreign countries** for more than **80% of its timber needs** and can be easily exposed to the risk of access to illegal



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Fonte: wwf,2008 su Analisi della Banca Mondiale

e Parlamento europeo

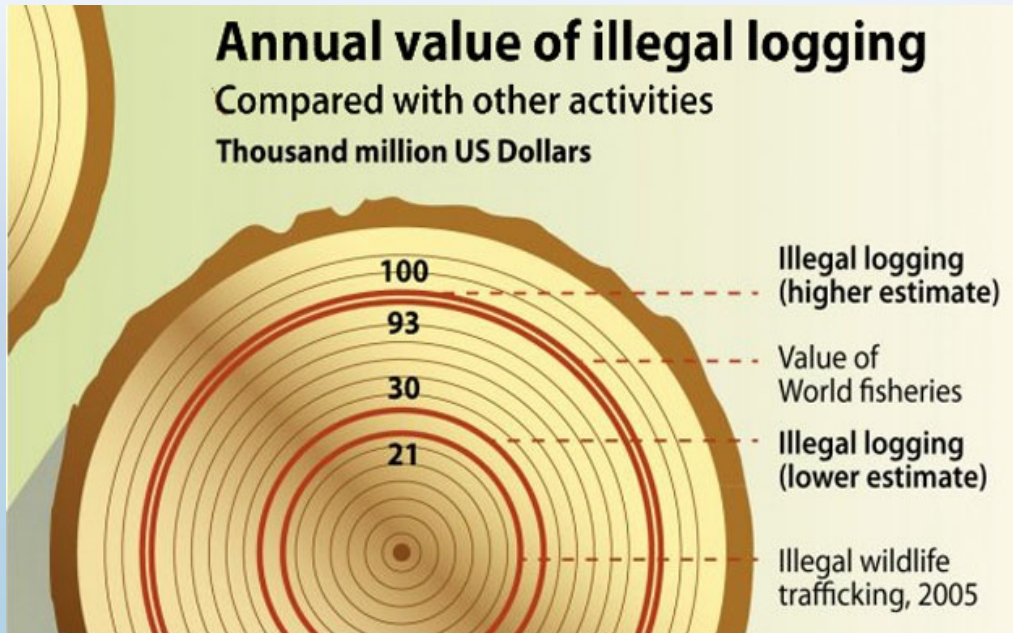


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SYNTHETICALLY, THE CONSEQUENCES of WOOD'S ILLEGALITY are:

- Economic: loss of income, unfair competition;
- EnvironmentAmbientali: deforestation, loss of biodiversity, climate changes;
- Social: mistreatment exploitation of indigenous and local communities, ltimber arising from areas affected by armed conflict.



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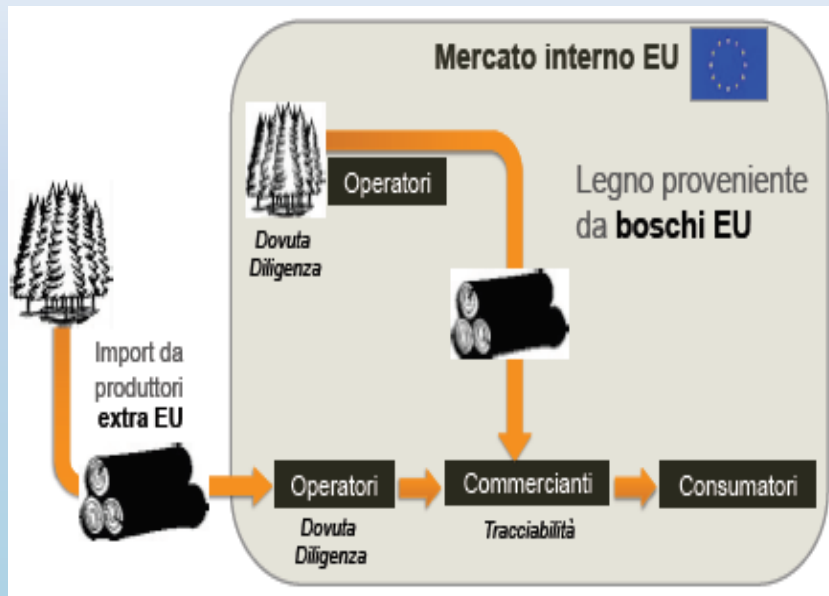
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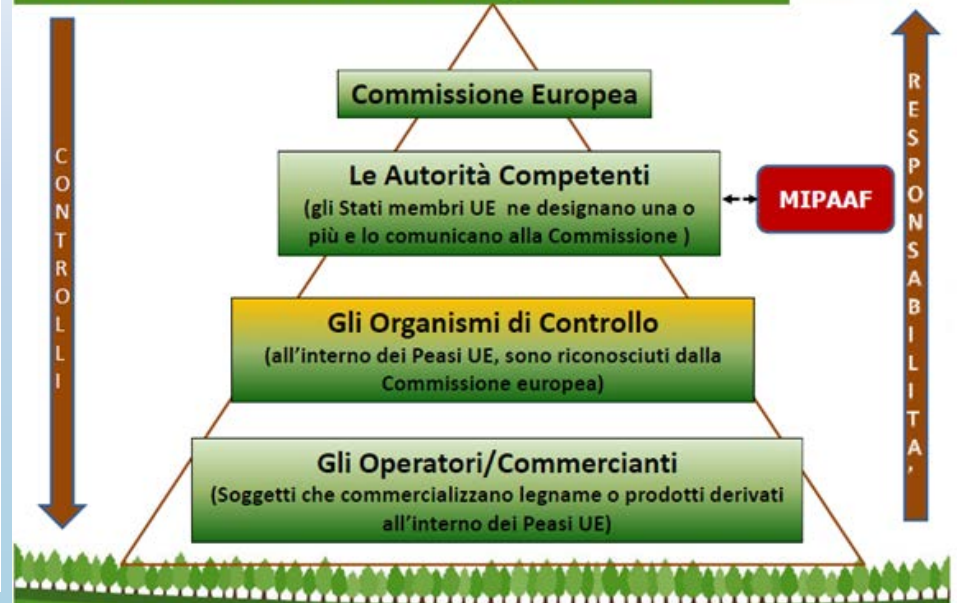
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Schema del Regolamento (UE) N. 995/2010



I livelli coinvolti dal Regolamento



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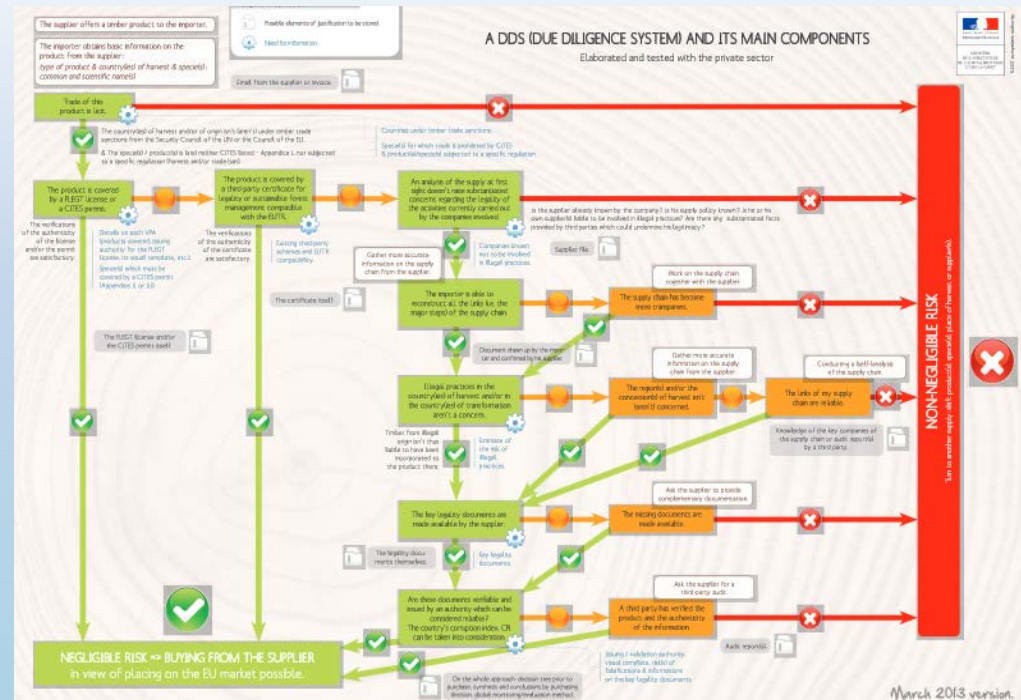
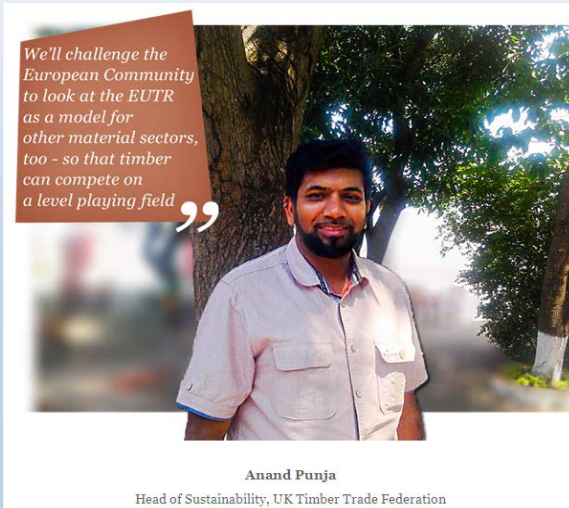
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One year on: where are we with the EUTR?





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I PARTNER DEL PROGETTO SCORE



CON IL CONTRIBUTO DI
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fondazione@bancaetica.org
www.fcrc.it



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tel. 0498771111 - fax 0497399799
www.bancaetica.it



ARCI LOMBARDA
tel. +39 02547781 - fax +39 0254778999
lombardia@arci.it
www.arci Lombardia.it



C.d.l.E. - Centro di Iniziativa Europea Soc. Coop.
tel. +39 0290504711 - fax +39 0290504733
info@cliccoop.it
www.cliccoop.it



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www.omicronweb.it



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c/o Dip. TeSAF Università di Padova
tel. +39 049 827 9773 - fax +39 049 827 9779
info@fsc-italia.it
www.fsc-italia.it



TESAF
Dipartimento Territorio e Sistemi Agro - Forestali
Università degli Studi di Padova
tel. +39 0498279792 - +39 0498279736
fax +39 0498279750
www.tesaf.unipd.it



VALORE SOCIALE
tel. 02 36823393 - fax. 02 36823394
info@valoresociale.it
www.valoresociale.it



Luca Musumeci - Coordinatore di progetto
Fondazione Culturale Responsabilità Etica Onlus
Info@uscuscore.eu

Tel 0423 804071 - Fax 0423 804072 www.uscuscore.eu



SCORE
STOP CRIMES ON RENEWABLES AND ENVIRONMENT

STOP CRIMES
ON
AND
RENEWABLES
ENVIRONMENT



Prevention of and Fight against Crime 2009
With financial support from the Prevention of and Fight against Crime Programme
European Commission - Directorate General Home Affairs



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ALPINE CONVENTION

info@alpcnv.org

www.alpcnv.org



MINISTERO DELL'AMBIENTE
E DELLA TUTELA DEL TERRITORIO E DEL MARE



THE ALPINE CONVENTION IS THE FIRST INTERNATIONAL TREATY FOR THE PROTECTION AND PROMOTION OF THE SUSTAINABLE DEVELOPMENT OF A CROSS-BORDER MOUNTAINOUS REGION
italian presidency 2013-2014
alpine convention

BEST PRACTICES



Programma di cooperazione transfrontaliera tra Italia e Francia
"Alcotra" 2007-2013
www.interreg-alcotra.org



In linea con uno degli obiettivi centrali dell'Unione Europea, il progetto **ReNERFOR** si pone l'obiettivo di promuovere la collaborazione tra le amministrazioni francesi ed italiane per migliorare le capacità di intervento per quanto riguarda lo sviluppo e l'utilizzo delle fonti rinnovabili, il risparmio energetico e la riduzione delle emissioni di gas ad effetto serra.

L'esigenza che ha spinto i partner a predisporre il progetto è quella di un confronto con altre realtà e l'attuazione non di singoli interventi, ma di un insieme coordinato di azioni su un territorio più vasto come quello transfrontaliero.

Obiettivo generale del progetto è quello di condividere tra i partners, attraverso lo scambio di esperienze e l'attuazione di iniziative pilota, modelli e strumenti per migliorare la politica locale di sviluppo e di cooperazione in materia di fonti rinnovabili di energia



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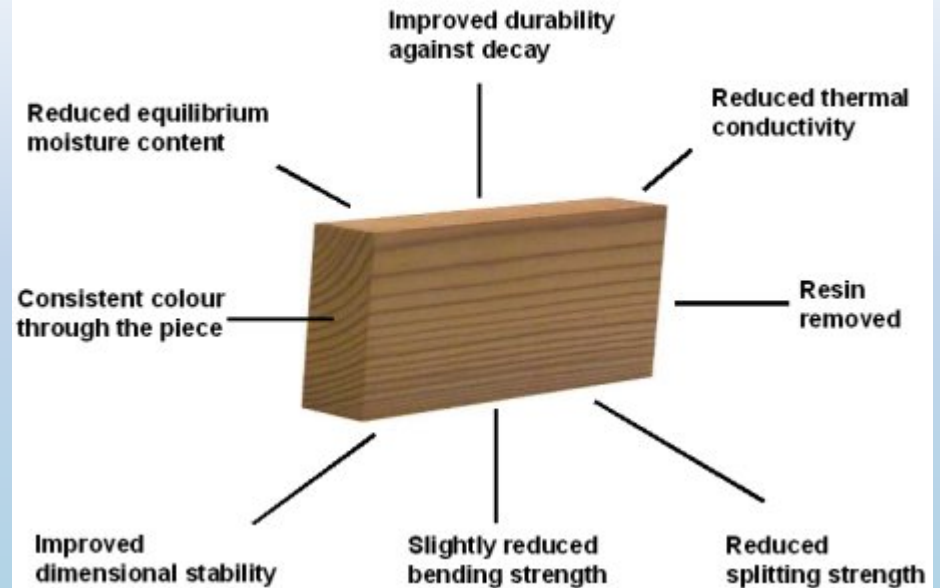


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THERMOWOOD® - new process for a new generation of thermally modified wood



ThermoWood® - properties



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OSTELLO
Parco Monte Barro

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In prospettiva politiche e strumenti rivolti a:

- Evitare la **sottoutilizzazione delle risorse forestali**;
- Assicurare condizioni di **legalità e sostenibilità**;
- Garantire **servizi eco-sistemici di pubblica utilità**
(*trade-off tra produzione di legno ed erogazione servizi*)

- mobilitare l'offerta interna, orientandola verso prodotti a > VA
- aumentare l'offerta di tondame industriale
- incrementare la disponibilità di scarti e cascami impiegabili a fini energetici (logica a cascata)

Competizione con altri settori

Impatto occupazionale trasformazione di 1 t (o m³) di legno:

- **25 volte** > nell'industria del legno
- **7 volte** > nell'industria della carta rispetto a quella energetica

Valore aggiunto creato

- **10 volte** > nell'industria del legno
- **5 volte** > nell'industria della carta rispetto a quella energetica

Fonte: EPF, 2010 e Jaakko Pöyry/CEPI, 2012

Su scala locale, le possibili sinergie prevalgono rispetto ai rischi di competizione/conflitto tra settori



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Thank you
for your kind
attention



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