

D4.1

Report about Innovation Lab on valorization of environmental performances in the wood supply chain WP4/Task T4.1





Partners



DAD DIPARTIMENTO ARCHITETTURA E DESIGN















Grant agreement	LIFE23-PRE-IT-LIFE-BE-WoodEN/101148077
Programme	LIFE
Project acronym	BE-WoodEN
Project title	BE-WoodEN - Buildings and Education in Wood Ecosystem for the New European Bauhaus
Project starting date	01/02/2024
Project end date	31/01/2026
Project duration	24 months
Project work package	WP4 – Innovation lab
Deliverable title	Report about Innovation Lab on valorization of environmental performances in the wood supply chain
Nature of deliverable	Report
Dissemination level	Public
Due date of deliverable	31st March 2025
Actual date of deliverable	31st March 2025
Produced	ART-ER
Reviewed	University of Genova
Validated	University of Genova

SUMMARY TABLE

1.	. SCOPE AND METHODOLOGY	3
2.	FOCUS GROUP ACTIVITY	4
	2.1 The toolkit	7
3.	FINAL WORKSHOP	12
4.	. ANNEX	16

1. SCOPE AND METHODOLOGY

The application of wood materials in the construction sector, considering all the supply chain, generates environmental benefits during the life cycle of the buildings. These environmental benefits can be valorized to support the supply chain actors (starting from forest management), the buildings and spaces appeal and the territory attractiveness.

The innovation lab of Emilia-Romagna region is focused on the valorization of environmental performances in the wood supply chain aimed at the elaboration of a toolkit for companies, professionals and public officers.

The Lab has been carried out between October 2024 and March 2025 through the institution of a Focus Group composed by experts of environmental certification schemes, representatives of supply chain and of public administration.

Organizations participating to the Focus Group are:

- National Cluster Italia Foresta Legno
- Emilia-Romagna Regional Authority
- EMAS Italy Committee
- CREA (leading Italian research organization dedicated to the agri-food supply chains)
- Certiquality
- Green building council Italy
- PEFC Italy
- ART-ER
- FederLegnoArredo (FLA)
- FLA Assoimballaggi (packaging)
- FLA Edilegnoarredo (furnitures)
- FLA Assopannelli (panels)
- FLA Assolegno (wood)

FLA members represent about 750 companies distributed in all the wood supply chain.

The first meeting of the group has been held on 22nd October, in which the main objective has been the sharing of knowledge about the relevant certification schemes and the point of view of experts.

The second meeting has been 5th December, in which the main objective has been the sharing of the phases of the supply chain and the point of view of enterprises about the applicability of the certification schemes.

After these meetings a draft of the toolkit has been developed by ART-ER and feedback by the members have been collected through a google form expressing strengths and weaknesses of the toolkit.

The toolkit has been presented in a workshop at Bologna, 20 March 2025.

2. FOCUS GROUP ACTIVITY

During the first meeting of the Focus Group, held in Bologna the 22nd October 2024, ART-ER presented the aim of the work and the goal of the group.

The experts presented the features of the following environmental certification schemes:

- sustainable forest management and chain of custody (e.g. PEFC, FSC)
- environmental management system (EMAS and ISO14001)
- eco-labels (e.g. ISO14067 carbon footprint, EU Ecolabel, EPD)
- environmental certification of buildings (e.g. LEAD, BREEAM)
- voluntary carbon credits (e.g. EU CRCF, VCS)

The presentations have been followed by a discussion in which companies and public administrations have exposed doubts and questions.

Main topics:

- To maximize benefits is important to approach these issues from a supply chain perspective, and not from a single company.
- Environmental certifications can increase the competitiveness of companies, but is important to increase the awareness of producers and consumers.
- Sustainable and Local are a great connection but difficult to find at the moment. The work of the focus group will also contribute to promoting the environmental certification of forests of Emilia-Romagna.
- A harmonized forest management able to consider both productive function and conservation function represents the goal of regional policy.
- Is important to use transparent tools, because companies, in particular if small, see the certification as an obstacle and not as a simplification
- A certification gives benefits in terms of image, differentiation from competitors and legal requirements
- It is important to make clear the differences among the different certification schemes.

The slides of each expert, written in Italian language, have been shared within all the members. The participants to the meeting were 25.

During the second meeting of the Focus Group, held on-line the 5th December 2024, ART-ER and FLA presented a framework of the defined phases of the wood supply chain in the construction sector and a proposal of attribution of the certification schemes analysed in October to the relevant supply chain phases. The participants to the meeting were 14. The considered supply chain phases are:

- Forestry
- First woodworking
- Wood construction
- Wood finishes for construction and outdoor furniture

- Panels and semi-finished products
- Furniture and furnishings
- Packaging

After a preliminary assignment of the environmental certifications to the phases, the producers have shared their reflections about the following issues:

Difficulties in terms of

resources needed (human and financial)
knowledge required
complexity of application
credibility and recognition
market return from a supply perspective
market availability from a purchasing perspective

Opportunities in terms of

access to new markets advantages in pricing increased competitiveness image organizational improvement communication potential

Main highlights from the discussion:

Difficulties

- The majority of supply chain enterprises are medium-small companies, with few large producers. Small entities have poor internal resources and little awareness of these issues. Therefore, a strong awareness of these issues is needed
- Products, in order to be certified, have to have a higher price and this
 makes them lose competitiveness to countries that are freer from
 regulations; however the added value enhances the product for the
 consumer
- Fragmentation of forest properties is a limit to the implementation of certified forest management.

Opportunities

- The tool can be useful in providing tools to companies in the supply chain (roadmap)
- The benefits are related to competitiveness in the market, including from a business-to-consumer communication point of view
- Environmental certifications can improve communication strength and image
- Environmental certifications can improve the organizational improvement

- Cluster certification able to aggregate small companies represent a suitable approach.





Focus Group Meeting (22th October 2024 - Bologna)

2.1 The toolkit

The toolkit (Annex I) has the form of an interactive pdf file and is a sort of map to support strategic decisions for companies belonging to all the phases of the wood supply chain.

But it could be useful also for professionals involved in the design at different phases (architects, engineers, agronomists) and for policy officers engaged in public projects or calls for funding.

The toolkit is conceived to approach both environmental benefits due to the adoption of wood and the enterprises objectives.

The considered **environmental benefits** are:

- resilience and forest protection
- protection and restoration of ecosystem services
- reduction of process environmental impacts
- reduction of product environmental impacts
- reduction of building environmental impacts
- reduction of CO₂ emissions
- absorption of CO₂
- increased circularity

The considered **enterprises objectives** are:

- increase corporate and consumer awareness
- ensure effective and transparent communication
- access new markets
- accessibility to public tenders
- organizational improvement
- improving the environmental quality of the product
- enhancement of environmental benefits and increased profitability

For both the categories is highlighted the relation to the supply chain phases and to the environmental certification schemes suitable to satisfy them.

For each scheme the toolkit offers a brief description and links to institutional websites and documentation.

The draft of the toolkit has been assessed by the Focus Group members, in order to define strengths and weaknesses.

The toolkit has been reviewed by the participant to the Focus Group considering the following areas:

- a) format of the toolkit: the iPDF is accessible? Is it easy to use?
- b) *strategic role of the toolkit*: do you consider the toolkit a decision-support tool? Is it useful to guide users in their decisions?
- c) *clarity of contents*: contents are presented in a proper manner? Is the used terms/taxonomy appropriate?

- d) *completeness*: the selected elements of the decisional path (environmental benefits, business objectives, supply-chain segments and tools' description) provide a comprehensive overview?
- e) *content quality and correctness*: any comments about gaps or errors in tools description.

Feedbacks have been collected in the form of textual contribution or responses to a questionnaire (via Google form) sent to the participants.

For the online survey, questions have been asked using a "linear scale approach" for an assessment from 1 (minimum) to 5 (maximum).

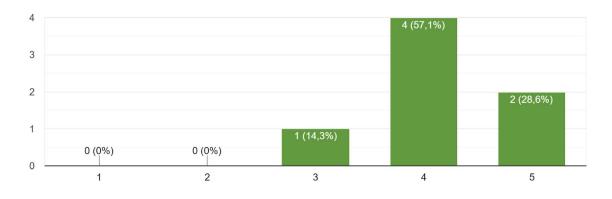
Main strengths and weaknesses were outlined. The feedbacks have been reviewed and implemented in the final version of the toolkit.

The presented results take into account the whole contribution received (text and survey answers). No negative feedback were received.

An analysis of the responses is reported below:

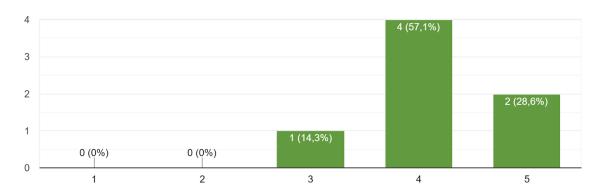
Format of the toolkit: the toolkit was considered accessible and easy to use (4: 57.1%; 5: 28.6%; 3: 14.3%). The visual approach (icons and infographics) and the external links included in each tool for additional insight were appreciated. An introductory guidance was suggested to ensure a higher comprehension of the decisional paths proposed.

Il PDF interattivo è fruibile? 7 risposte



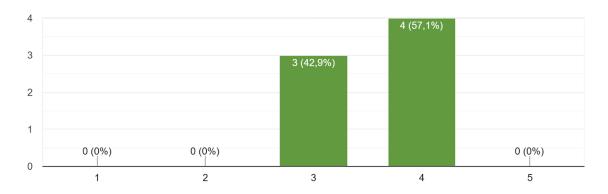
Il PDF interattivo è facile da usare?

7 risposte



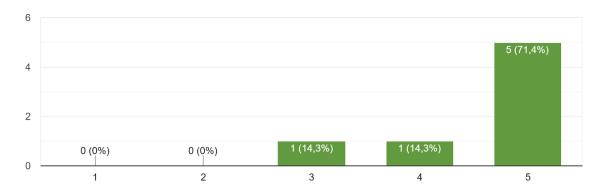
Strategic role of the toolkit: the toolkit was considered a valid support for the sector (5: 57.1%; 4: 42.9%). *Questions* (translation): Is the interactive pdf usable (1)? Is the interactive pdf user-friendly?

Ritenete il toolkit uno strumento di supporto alle decisioni? 7 risposte



Ritenete il toolkit una mappa che aiuta ad orientarsi?

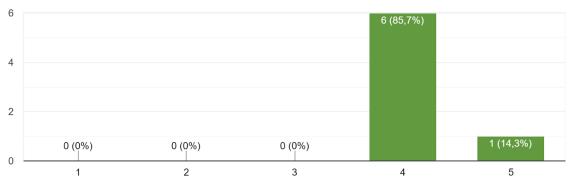
7 risposte



Clarity of contents: contents were deemed to be correctly presented (4: 85.7%; 5: 14.3%) also take into consideration the synthesis that characterize the tool. The terminology and languages used were suitable (5: 57.1%; 4: 42.9%) particularly considering that primary users are stakeholders and professionals within the wood sector. *Questions* (translation): Do you consider the toolkit a decision support tool? Do you consider the toolkit a map to help you find your way around?

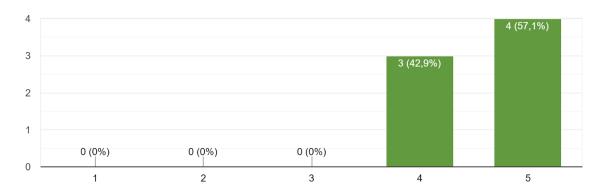
Le informazioni sono presentate in maniera consona?

7 risposte



Il linguaggio utilizzato è appropriato?

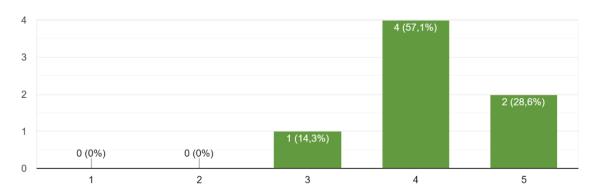
7 risposte



Completeness: the decisional paths, organized and categorized in steps, were considered effective and complete (4: 57.1%; 5: 28.6%; 3: 14.3%). *Questions* (translation): Is the information presented in an appropriate manner? Is the language used appropriate?

Benefici ambientali, obiettivi aziendali, segmenti della filiera ed elementi descrittivi degli strumenti forniscono una visione esaustiva?

7 risposte



Content quality and correctness. A few integration in the description of the valorization tools were proposed and integrated in the final version (e.g. specification of the program operators, text rewording). Question (translation): Do environmental benefits, business objectives, supply chain segments and descriptive elements of the instruments provide a comprehensive view?

3. FINAL WORKSHOP

A workshop to present to stakeholders the toolkit has been held at Bologna the 20 March 2025. The participants were 64.

The workshop has speakers representative of Policy makers, Sector companies, Professionals and BE-WoodEN partners.



The agenda was the following:

9.00 a.m. Registration of participants

Work is coordinated by Roberto Diolaiti, Emilia-Romagna Region 9.30 a.m. *Introduction* - Gessica Allegni Councillor for Culture, Parks and Forestry, Protection and Enhancement of Biodiversity, Equal Opportunities Emilia-Romagna Region

9.50 a.m. *The national forest information system in the National Forest Strategy* - Raoul Romano, CREA

10.10 a.m. *The policies of the Emilia-Romagna Region in the wood forestry supply chain* - Gabriele Locatelli, Emilia-Romagna Region

10.30 a.m. *Increasing sustainability in buildings: the Life BE-WoodEN (Buildings and Education in Wood Ecosystem for the New European Bauhaus) project -* Giovanna Franco, University of Genoa

10.50 a.m. Structural wood and the potential role of short supply chains in construction - Marco Togni, University of Florence

11.10 a.m. *A resilient supply chain: the forest-wood ecosystem in Emilia-Romagna* - Chiara Terraneo, FederlegnoArredo

11:30 a.m. - Environmental sustainability and competitiveness of the wood construction supply chain - Irene Diti, ARTER

11:50 a.m. *Roundtable: Perspectives for the wood supply chain in Emilia-Romagna*Moderator: Roberto Diolaiti, Emilia-Romagna Region
Speakers:

- Alessandro Liverani, Regional Federation Ordine Dottori Agronomi e Forestali
- Carlo Piemonte, National Cluster Italia Foresta Legno
- Francesco Grandi, ClustER Build
- Nicoletta Azzi, Assopannelli FederlegnoArredo
- Andrea Gnudi, Province of Bologna Ordine degli Ingegneri

13:15 p.m. End of works

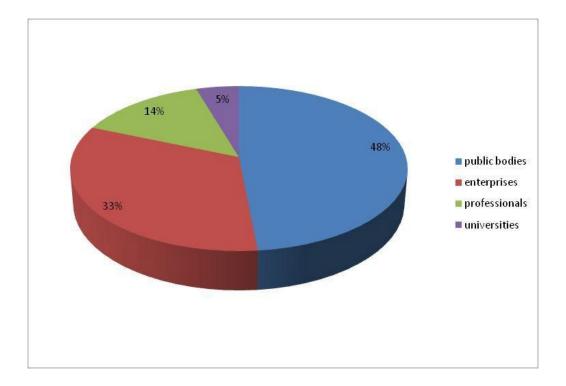




Final workshop (20th March 2025 - Bologna)

The participants were representatives of public administration, enterprises, professionals and researchers.

The following diagram shows the distribution of the categories of participants:



The discussion has been rich of suggestions and inputs both for the toolkit implementation and for the regional policy about the valorization of wood in the supply chain.

During the workshop have been collected also some information about the knowledge and application of the NEB approach in Emilia-Romagna.

Annex I – Toolkit to valorize the environmental performances of wood supply chain







TOOLKIT FOR THE VALORIZATION OF ENVIRONMENTAL PERFORMANCES IN THE WOOD SUPPLY CHAIN





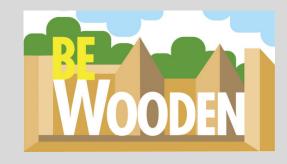


LIFE BE-WOODEN

SUSTAINABILITY, BEAUTY, INCLUSION: THESE ARE THE THREE PILLARS OF THE <u>NEW EUROPEAN BAUHAUS</u> APPROACH THAT HAVE INSPIRED THE LIFE BE-WOODEN PROJECT.

THE PROJECT AIMS TO:

- PROMOTE **SUSTAINABILITY IN CONSTRUCTION** BY OVERCOMING THE FRAGMENTATION OF THE LOCAL WOOD SECTOR SUPPLY CHAIN:
- OVERCOME CULTURAL, TECHNICAL, AND ECONOMIC BARRIERS THAT CURRENTLY LIMIT THE USE OF WOOD AND BIO-BASED MATERIALS IN THE CONSTRUCTION SECTOR;
- PROMOTE **NEB PRINCIPLES** THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS—FROM PRODUCTION AND DESIGN TO INSTALLATION AND BUILDING MANAGEMENT—THROUGHOUT THEIR LIFECYCLE.





TOOLKIT OBJECTIVES

THE OBJECTIVE OF THIS **GUIDE** OR **TOOLKIT** IS TO PROVIDE WOOD SUPPLY CHAIN OPERATORS A ROADMAP OF TOOL CATEGORIES AIMED AT ENHANCING THE ENVIRONMENTAL PERFORMANCE ASSOCIATED WITH THE USE OF WOOD IN CONSTRUCTION.

FOR EACH CATEGORY, AN IN-DEPTH ANALYSIS OF THE MOST WIDELY USED AND RECOGNIZED ENHANCEMENT TOOLS IS PROVIDED.

THE GUIDE DOES NOT AIM TO BE EXHAUSTIVE BUT SEEKS TO SUPPORT OPERATORS IN MAKING STRATEGIC DECISIONS ON THEIR SUSTAINABILITY PATH.

TARGET USERS

THE TOOLKIT IS PRIMARILY AIMED AT STAKEHOLDERS IN THE WOOD SUPPLY CHAIN, BUT IT MAY ALSO BE USEFUL FOR PROFESSIONALS AND PUBLIC OFFICERS.

HOW TO USE THE TOOLKIT

THE TOOLKIT IS AN INTERACTIVE PDF.

EACH ICON IS LINKED TO A HYPERTEXT CONNECTION THAT REDIRECTS USERS TO SPECIFIC PAGES WITHIN THE DOCUMENT.

COLORS AND ICONS GUIDE USERS IN NAVIGATING THE TOOLKIT.





START





HOW TO USE THE TOOLKIT

THE PROCESS BEGINS BY CHOOSING BETWEEN TWO DECISION PATHS:

- 1. ENVIRONMENTAL BENEFITS
- 2. ENTREPRISES OBJECTIVES

ENVIRONMENTAL BENEFITS PATH

THE USER IS GUIDED THROUGH THE FOLLOWING STEPS:

- 1.SELECTING THE SUPPLY CHAIN PHASE TO WHICH THEIR **COMPANY BELONGS**
- 2.CHOOSING THE ENVIRONMENTAL BENEFIT ASSOCIATED WITH THE SELECTED SEGMENT
- 3.SELECTING THE TOOL CATEGORY LINKED TO THE CHOSEN BENEFIT
- 4.CHOOSING A SPECIFIC TOOL FOR FURTHER EXPLORATION WITHIN THE SELECTED CATEGORY
- 5. PRESENTATION OF THE TOOL

ENTREPRISES OBJECTIVES PATH

THE USER IS GUIDED THROUGH THE FOLLOWING STEPS:

- 1. SELECTING THE ENTREPRISE OBJECTIVE
- 2.CHOOSING THE TOOL CATEGORY LINKED TO THE SELECTED **OBJECTIVE**
- 3.CHOOSING A SPECIFIC TOOL FOR FURTHER EXPLORATION WITHIN THE SELECTED CATEGORY
- 4. PRESENTATION OF THE TOOL



EXAMPLES

ICONS AND COLORS GUIDE THE USER IN NAVIGATING THE TOOLKIT.







ENTREPRISE OBJECTIVES



USER GUIDE

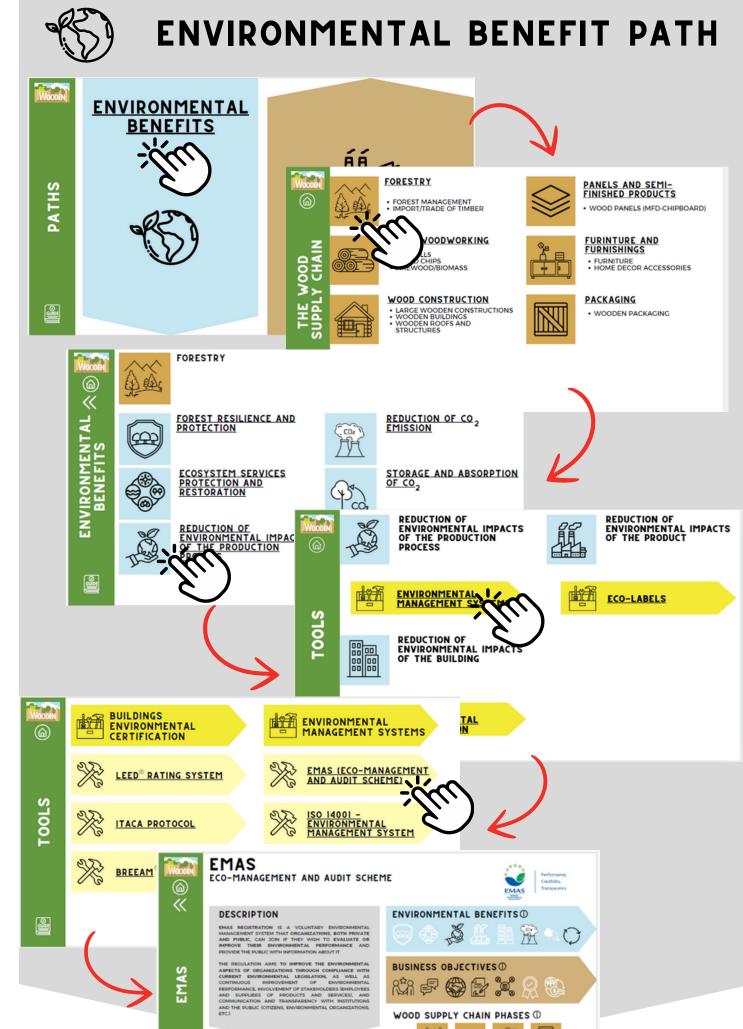




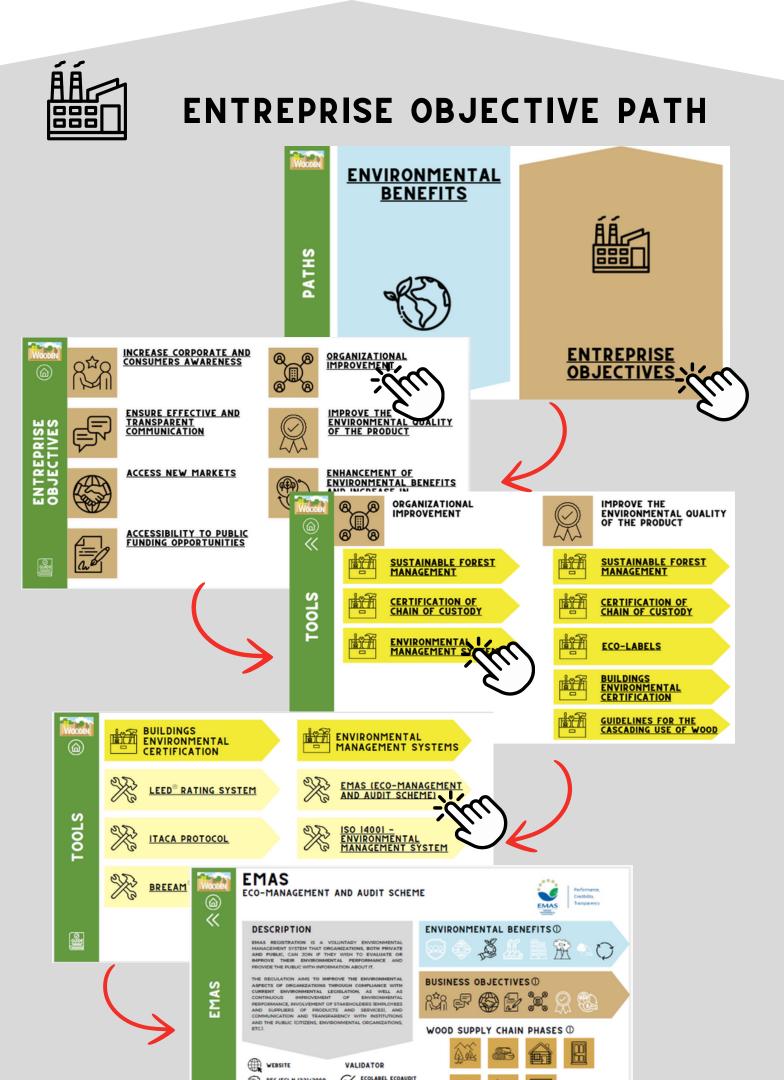








VALIDATOR











FORESTRY



PRIME WOODWORKING



WOOD CONSTRUCTION



WOOD FINISHES FOR **CONSTRUCTION AND OUTDOOR FURNITURE**



PANELS AND SEMI-FINISHED **PRODUCTS**



FURNITURE AND F **URNISHINGS**



PACKAGING

ENVIRONMENTAL BENEFITS



FOREST RESILIENCE AND **PROTECTION**



ECOSYSTEM SERVICES PROTECTION AND RESTORATION



REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCTION **PROCESS**



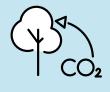
REDUCTION OF ENVIRONMENTAL IMPACTS OF THE BUILDING



REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCT



REDUCTION OF CO₂EMISSIONS



STORAGE AND ABSORTPION OF CO_2



INCREASE IN CIRCULARITY

ENTREPRISE OBJECTIVES



INCREASE CORPORATE AND CONSUMERS AWARENESS



ENSURE EFFECTIVE AND TRANSPARENT COMMUNICATION



ACCESS NEW MARKETS



ACCESSIBILITY TO PUBLIC FUNDING OPPORTUNITIES



ORGANIZATIONAL IMPROVEMENT



IMPROVE THE **ENVIRONMENTAL QUALITY** OF THE PRODUCT



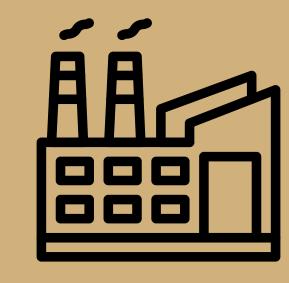
ENHANCEMENT OF **ENVIRONMENTAL BENEFITS** AND INCREASE IN **PROFITABILITY**



SHLYd

ENVIRONMENTAL BENEFITS









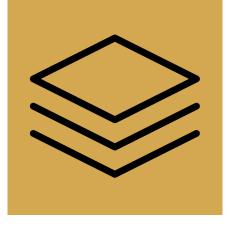






FORESTRY

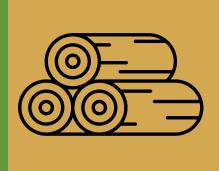
- FOREST MANAGEMENT
- IMPORT/TRADE OF TIMBER



PANELS AND SEMI-FINISHED PRODUCTS

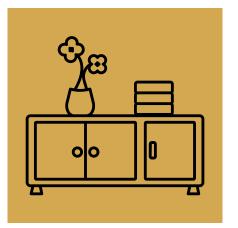
WOOD PANELS (MFD-CHIPBOARD)

LY CHAIN



PRIME WOODWORKING

- SAWMILLS
- WOOD CHIPS
- FIREWOOD/BIOMASS



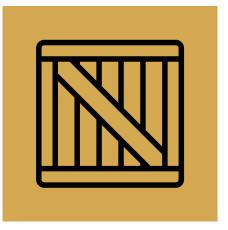
FURINTURE AND FURNISHINGS

- FURNITURE
- HOME DECOR ACCESSORIES



WOOD CONSTRUCTION

- LARGE WOODEN CONSTRUCTIONS
- WOODEN BUILDINGS
- WOODEN ROOFS AND STRUCTURES



PACKAGING

WOODEN PACKAGING



WOOD FINISHES FOR CONSTRUCTION AND OUTDOOR FURNITURE

- WOODEN FLOORING
- DOORS AND FIXTURES
- BOISERIE
- OUTDOOR WOODEN FURNITURE











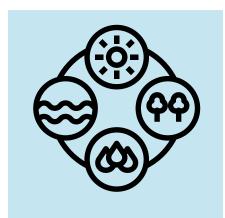
FORESTRY



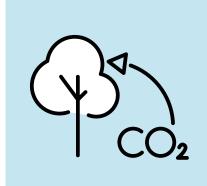
FOREST RESILIENCE AND PROTECTION



REDUCTION OF CO 2 EMISSION



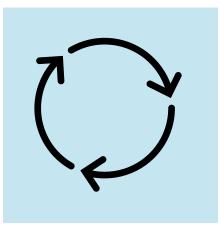
ECOSYSTEM SERVICES PROTECTION AND RESTORATION



STORAGE AND ABSORPTION OF CO2



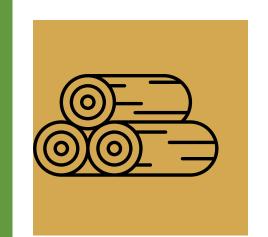
REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCTION **PROCESS**



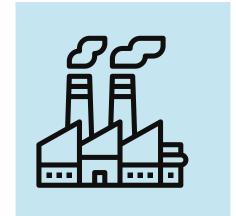








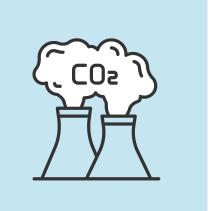
PRIME WOODWORKING



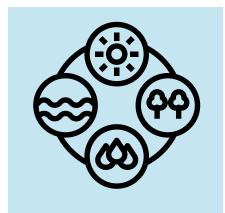
REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCT



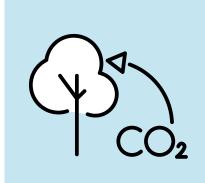
FOREST RESILIENCE AND PROTECTION



REDUCTION OF CO 2 EMISSION



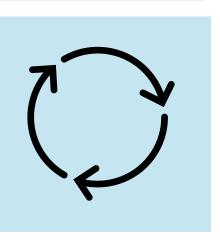
ECOSYSTEM SERVICES
PROTECTION AND
RESTORATION



STORAGE AND ABSORPTION OF CO₂



REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCTION PROCESS





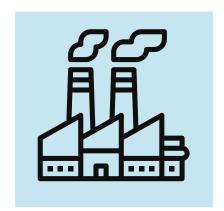








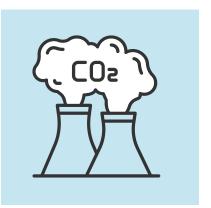
WOOD CONSTRUCTION



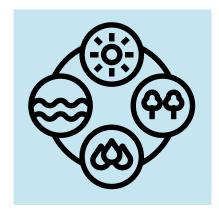
REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCT



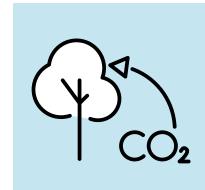
FOREST RESILIENCE AND PROTECTION



REDUCTION OF CO 2 EMISSION



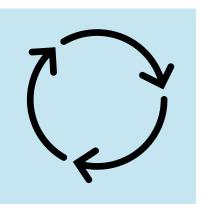
ECOSYSTEM SERVICES
PROTECTION AND
RESTORATION



STORAGE AND ABSORPTION OF CO₂



REDUCTION OF
ENVIRONMENTAL IMPACTS
OF THE PRODUCTION
PROCESS



INCREASE IN CIRCULARITY



REDUCTION OF ENVIRONMENTAL IMPACTS OF THE BUILDING



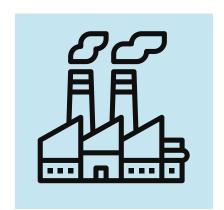








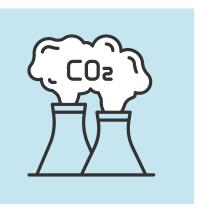
WOOD FINISHES FOR CONSTRUCTION AND OUTDOOR FURNITURE



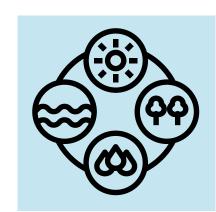
REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCT



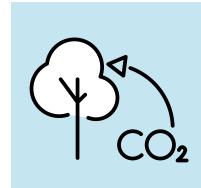
FOREST RESILIENCE AND PROTECTION



REDUCTION OF CO 2 EMISSION



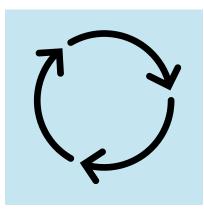
ECOSYSTEM SERVICES
PROTECTION AND
RESTORATION



STORAGE AND ABSORPTION OF CO₂



REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCTION PROCESS



INCREASE IN CIRCULARITY

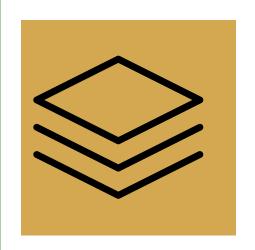


REDUCTION OF ENVIRONMENTAL IMPACTS OF THE BUILDING

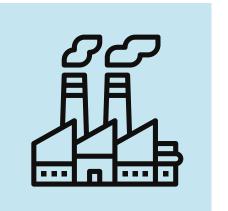








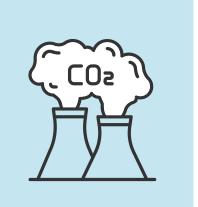
PANELS AND SEMI-FINISHED PRODUCTS



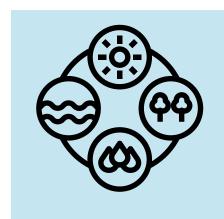
REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCT



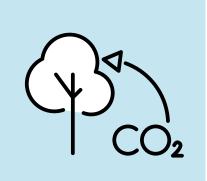
FOREST RESILIENCE AND PROTECTION



REDUCTION OF CO 2 EMISSION



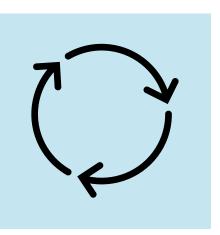
ECOSYSTEM SERVICES
PROTECTION AND
RESTORATION



STORAGE AND ABSORPTION OF CO₂



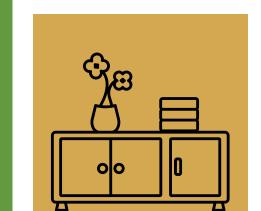
REDUCTION OF
ENVIRONMENTAL IMPACTS
OF THE PRODUCTION
PROCESS



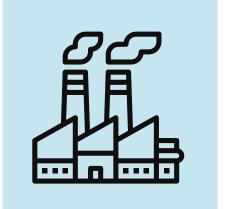








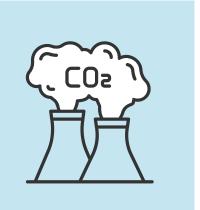
FURNITURE AND FURNISHINGS



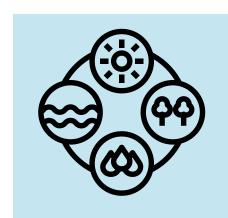
REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCT



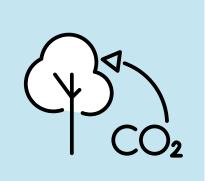
FOREST RESILIENCE AND PROTECTION



REDUCTION OF CO 2 EMISSION



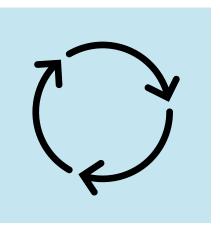
ECOSYSTEM SERVICES
PROTECTION AND
RESTORATION



STORAGE AND ABSORPTION OF CO₂



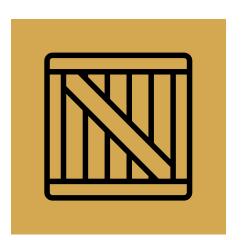
REDUCTION OF
ENVIRONMENTAL IMPACTS
OF THE PRODUCTION
PROCESS



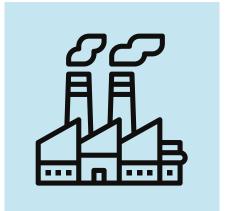








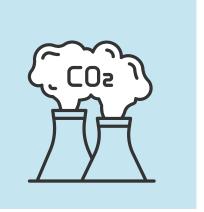
PACKAGING



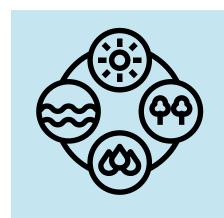
REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCT



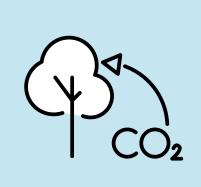
FOREST RESILIENCE AND PROTECTION



REDUCTION OF CO 2 EMISSION



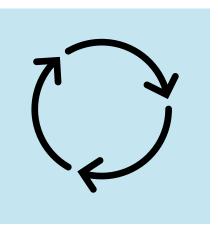
ECOSYSTEM SERVICES
PROTECTION AND
RESTORATION



STORAGE AND ABSORPTION OF CO₂



REDUCTION OF
ENVIRONMENTAL IMPACTS
OF THE PRODUCTION
PROCESS



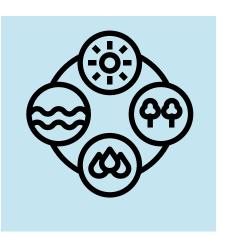








FOREST RESILIENCE AND **PROTECTION**



ECOSYSTEM SERVICES PROTECTION AND RESTORATION



SUSTAINABLE FOREST **MANAGEMENT**



SUSTAINABLE FOREST **MANAGEMENT**



CERTIFICATION OF **CHAIN OF CUSTODY**



CERTIFICATION OF CHAIN OF CUSTODY



CARBON CREDITS



CARBON CREDITS



GUIDELINES FOR THE CASCADING USE OF WOOD



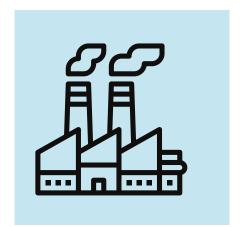
GUIDELINES FOR THE CASCADING USE OF WOOD







REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCTION PROCESS



REDUCTION OF ENVIRONMENTAL IMPACTS OF THE PRODUCT



ENVIRONMENTAL MANAGEMENT SYSTEMS



ECO-LABELS



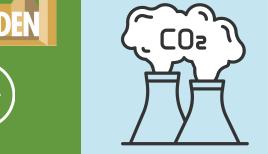
REDUCTION OF ENVIRONMENTAL IMPACTS OF THE BUILDING



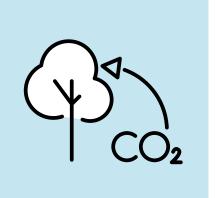
BUILDINGS ENVIRONMENTAL CERTIFICATION







REDUCTION OF CO 2 EMISSION



STORAGE AND ABSORPTION OF CO₂



ENVIRONMENTAL MANAGEMENT SYSTEMS



SUSTAINABLE FOREST MANAGEMENT



ECO-LABELS



CERTIFICATION OF CHAIN OF CUSTODY



BUILDINGS ENVIRONMENTAL CERTIFICATION



ECO-LABELS



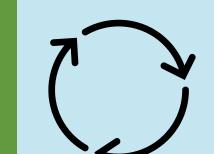
CARBON CREDITS



CARBON CREDITS







INCREASE IN CIRCULARITY



ENVIRONMENTAL MANAGEMENT SYSTEMS



ECO-LABELS



GUIDELINES FOR THE CASCADING USE OF WOOD

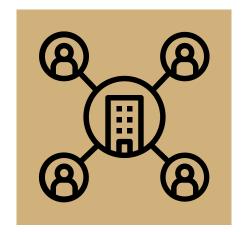








INCREASE CORPORATE AND CONSUMERS AWARENESS



ORGANIZATIONAL IMPROVEMENT



ШО



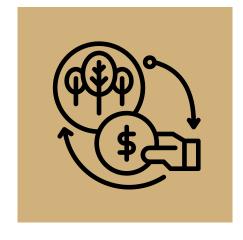
ENSURE EFFECTIVE AND TRANSPARENT COMMUNICATION



IMPROVE THE ENVIRONMENTAL QUALITY OF THE PRODUCT



ACCESS NEW MARKETS



ENHANCEMENT OF ENVIRONMENTAL BENEFITS AND INCREASE IN PROFITABILITY



ACCESSIBILITY TO PUBLIC FUNDING OPPORTUNITIES



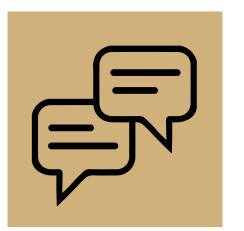








INCREASE CORPORATE AND CONSUMERS AWARENESS



ENSURE EFFECTIVE AND TRANSPARENT COMMUNICATION



SUSTAINABLE FOREST MANAGEMENT



ENVIRONMENTAL MANAGEMENT SYSTEMS



CERTIFICATION OF CHAIN OF CUSTODY



ECO-LABELS



ENVIRONMENTAL MANAGEMENT SYSTEMS



CARBON CREDITS



BUILDINGS ENVIRONMENTAL CERTIFICATION



GUIDELINES FOR THE CASCADING USE OF WOOD









S







ACCESS NEW MARKETS



ACCESSIBILITY TO PUBLIC **FUNDING OPPORTUNITIES**



SUSTAINABLE FOREST **MANAGEMENT**



CERTIFICATION OF CHAIN OF **CUSTODY**



ENVIRONMENTAL MANAGEMENT SYSTEMS



BUILDINGS ENVIRONMENTAL CERTIFICATION



ECO-LABELS



SUSTAINABLE FOREST **MANAGEMENT**



CERTIFICATION OF CHAIN OF CUSTODY



ENVIRONMENTAL MANAGEMENT **SYSTEMS**



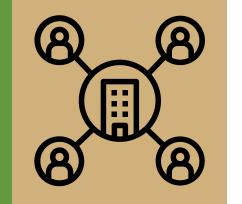
BUILDINGS ENVIRONMENTAL CERTIFICATION



ECO-LABELS







ORGANIZATIONAL IMPROVEMENT



IMPROVE THE **ENVIRONMENTAL QUALITY** OF THE PRODUCT



SUSTAINABLE FOREST **MANAGEMENT**



SUSTAINABLE FOREST **MANAGEMENT**



CERTIFICATION OF CHAIN OF CUSTODY



CERTIFICATION OF CHAIN OF CUSTODY



ENVIRONMENTAL MANAGEMENT SYSTEMS



ECO-LABELS



BUILDINGS ENVIRONMENTAL CERTIFICATION



GUIDELINES FOR THE CASCADING USE OF WOOD

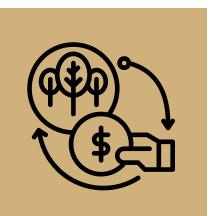












ENHANCEMENT OF ENVIRONMENTAL BENEFITS AND INCREASE IN PROFITABILITY



ECO-LABELS



BUILDINGS ENVIRONMENTAL CERTIFICATION



CARBON CREDITS









TOOLS











SUSTAINABLE FOREST MANAGEMENT





PEFC CERTIFICATION



PEFC CERTIFICATION



FSC®CERTIFICATION



FSC®CERTIFICATION











ECO-LABELS



EU ECOLABEL



EU-CRCF PRODUCTS



EPD® (ENVIRONMENTAL PRODUCT DECLARATION)



PEFC CERTIFICATION



CARBON FOOTPRINT



FSC® CERTIFICATION



MADE GREEN IN ITALY











BUILDINGS ENVIRONMENTAL CERTIFICATION



ENVIRONMENTAL MANAGEMENT SYSTEMS



LEED® RATING SYSTEM



EMAS (ECO-MANAGEMENT AND AUDIT SCHEME)



ITACA PROTOCOL



ISO 14001 -ENVIRONMENTAL MANAGEMENT SYSTEM



BREEAM®









CARBON CREDITS



CREA CARBON CREDIT REGISTRY



PLAN VIVO



EU-CRCF REGULATION



VERRA-VCS



GOLD STANDARD®









PEFC

PROGRAMME FOR ENDORSEMENT OF FOREST CERTIFICATION **SCHEMES**



DESCRIPTION

THE **PEFC CERTIFICATION** IS AN INTERNATIONAL, INDEPENDENT, AND THIRD-PARTY CERTIFICATION SPECIFICALLY FOR THE FORESTRY SECTOR AND PRODUCTS (WOODEN AND NON-WOODEN) DERIVED FROM FORESTS AND PLANTATIONS.

THERE ARE 2 TYPES OF PEFC CERTIFICATION:

WEBSITE (PEFC ITALY)

FM CERTIFICATION

COC CERTIFICATION

- FOREST MANAGEMENT CERTIFICATION (FM): ENSURES THAT A FOREST OR A FOREST PLANTATION IS MANAGED IN ACCORDANCE WITH RIGOROUS ENVIRONMENTAL AND **ECONOMIC STANDARDS.**
- CHAIN OF CUSTODY CERTIFICATION (COC): GUARANTEES THE TRACEABILITY OF MATERIALS SOURCED FROM WELL-MANAGED FORESTS, CONTROLLED SOURCES, RECYCLED MATERIALS, OR A COMBINATION OF THESE SOURCES

VALIDATOR

ENVIRONMENTAL BENEFITS ①

















BUSINESS OBJECTIVES ①



































FOREST STREWARDSHIP COUNCIL®



DESCRIPTION

THE FSC CERTIFICATION IS AN INTERNATIONAL, INDEPENDENT, AND THIRD-PARTY CERTIFICATION SPECIFIC TO THE FORESTRY SECTOR AND PRODUCTS (WOODEN AND NON-WOODEN) DERIVED FROM FORESTS.

THERE ARE 2 TYPES OF FSC CERTIFICATION:

- FOREST MANAGEMENT CERTIFICATION (FM): ENSURES THAT A FOREST OR A FOREST PLANTATION IS MANAGED IN ACCORDANCE WITH RIGOROUS ENVIRONMENTAL AND **ECONOMIC STANDARDS.**
- CHAIN OF CUSTODY CERTIFICATION (COC): GUARANTEES THE TRACEABILITY OF MATERIALS SOURCED FROM WELL-MANAGED FORESTS, CONTROLLED SOURCES, RECYCLED MATERIALS, OR A COMBINATION OF THESE SOURCES.

ENVIRONMENTAL BENEFITS ①



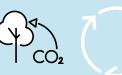




























WOOD SUPPLY CHAIN PHASES ①









VALIDATOR



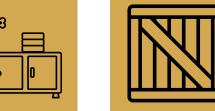














WEBSITE (FSC ITALY)



FM CERTIFICATION



COC CERTIFICATION









Performance. Credibility, Transparency

DESCRIPTION

EMAS REGISTRATION IS A VOLUNTARY ENVIRONMENTAL MANAGEMENT SYSTEM THAT ORGANIZATIONS, BOTH PRIVATE AND PUBLIC, CAN JOIN IF THEY WISH TO EVALUATE OR IMPROVE THEIR ENVIRONMENTAL PERFORMANCE AND PROVIDE THE PUBLIC WITH INFORMATION ABOUT IT.

THE REGULATION AIMS TO IMPROVE THE ENVIRONMENTAL ASPECTS OF ORGANIZATIONS THROUGH COMPLIANCE WITH **CURRENT ENVIRONMENTAL LEGISLATION**. AS WELL AS CONTINUOUS **IMPROVEMENT** OF **ENVIRONMENTAL** PERFORMANCE, INVOLVEMENT OF STAKEHOLDERS (EMPLOYEES AND SUPPLIERS OF PRODUCTS AND SERVICES), AND COMMUNICATION AND TRANSPARENCY WITH INSTITUTIONS AND THE PUBLIC (CITIZENS, ENVIRONMENTAL ORGANIZATIONS, ETC.).

ENVIRONMENTAL BENEFITS ①















BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①



















ECOLABEL ECOAUDIT COMMITTEE



DECISION (EU) 2023/2463

WEBSITE















ISO 14001:2015 ENVIRONMENTAL MANAGEMENT SYSTEMS



DESCRIPTION

ISO 14001 IS AN INTERNATIONAL VOLUNTARY STANDARD APPLICABLE TO ANY TYPE OF PUBLIC OR PRIVATE ORGANIZATION, SPECIFYING THE REQUIREMENTS FOR AN **ENVIRONMENTAL MANAGEMENT SYSTEM.**

TO DEFINE A SYSTEM THAT COMPLIES WITH ISO 14001, IT IS **NECESSARY TO:**

- CONDUCT AN ENVIRONMENTAL ANALYSIS. MEANING GAINING A THOROUGH UNDERSTANDING OF THE ENVIRONMENTAL ASPECTS (EMISSIONS, RESOURCE USE, ETC.) THAT AN ORGANIZATION MUST EFFECTIVELY MANAGE, UNDERSTANDING THE LEGISLATIVE FRAMEWORK AND APPLICABLE REQUIREMENTS FOR THE COMPANY, AND ASSESSING THE SIGNIFICANCE OF THE IMPACTS.
- DEFINE A COMPANY POLICY.
- DEFINE SPECIFIC ENVIRONMENTAL RESPONSIBILITIES.
- DEFINE, IMPLEMENT, AND MAINTAIN ACTIVITIES. PROCEDURES, AND RECORDS AS REQUIRED BY ISO 14001.

ENVIRONMENTAL BENEFITS ①

















BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①















VALIDATOR





INTERNATIONAL STANDARD FOR ORGANIZATION









EU ECOLABEL



DESCRIPTION

WEBSITE

REG.(EC) N.66/2010

THE EU ECOLABEL IS A VOLUNTARY ENVIRONMENTAL PRODUCT LABELING SYSTEM AIMED AT PROMOTING THE DESIGN, PRODUCTION, MARKETING, AND USE OF PRODUCTS WITH A LOWER ENVIRONMENTAL IMPACT THROUGHOUT THEIR ENTIRE LIFE CYCLE.

THIS IS BASED ON CRITERIA THAT EVALUATE ENVIRONMENTAL IMPACTS SUCH AS ENERGY CONSUMPTION, POLLUTION (WATER, AIR, NOISE, SOIL), AND WASTE MANAGEMENT. IT IS AN ENVIRONMENTAL EXCELLENCE MARK, MEANING IT HELPS CONSUMERS RECOGNIZE PRODUCTS OR SERVICES THAT HAVE A LOWER ENVIRONMENTAL IMPACT WHILE MAINTAINING THE SAME PERFORMANCE AND QUALITY AS OTHERS.

ENVIRONMENTAL BENEFITS ①

















BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①











VALIDATOR













JADE GREEN IN ITALY

MADE GREEN IN ITALY NATIONAL SCHEME



DESCRIPTION

ITALIAN MINISTRY

ENVIRONMENT

REGOLAMENTO D.M. 56/2018

THE "MADE GREEN IN ITALY" LABEL AIMS TO ENHANCE THE MARKET VALUE OF ITALIAN PRODUCTS WITH GOOD OR EXCELLENT ENVIRONMENTAL PERFORMANCE (GUARANTEED BY A SCIENTIFICALLY ROBUST SYSTEM). ITS LOGO HELPS CONSUMERS EASILY RECOGNIZE THESE PRODUCTS, ENCOURAGING MORE CONSCIOUS CHOICES.

THE QUANTIFICATION OF A PRODUCT'S ENVIRONMENTAL PERFORMANCE IS BASED ON A COMPLETE PEF (PRODUCT ENVIRONMENTAL FOOTPRINT) STUDY, VERIFIED AND VALIDATED BY AN INDEPENDENT THIRD-PARTY ORGANIZATION.

THERE ARE **THREE PERFORMANCE CLASSES:** "A" (VALUE HIGHER THAN THE BENCHMARK), "B" (VALUE CLOSE TO THE BENCHMARK), AND "C" (VALUE LOWER THAN THE BENCHMARK). ONLY PRODUCTS IN CLASS A AND THOSE IN CLASS B (WITH A COMMITMENT FROM THE COMPANY TO IMPROVE PERFORMANCE) ARE ELIGIBLE TO USE THE LOGO.

VALIDATOR



ITALIAN MINISTRY
OF THE
ENVIRONMENT
(MASE)

ENVIRONMENTAL BENEFITS ①

















BUSINESS OBJECTIVES ①

































GUIDE

EPD[®] ENVIRONMENTAL PRODUCT DECLARATION



DESCRIPTION

THE **EPD (ENVIRONMENTAL PRODUCT DECLARATION)** IS A VOLUNTARY CERTIFICATION THAT HIGHLIGHTS THE ENVIRONMENTAL PERFORMANCE OF A PRODUCT, PROCESS, OR SERVICE TO IMPROVE ITS SUSTAINABILITY.

EPD IS DEVELOPED IN ACCORDANCE WITH THE UNI ISO 14025:2006 STANDARD (TYPE III ENVIRONMENTAL LABEL); THE ENVIRONMENTAL INFORMATION PROVIDED IS BASED ON A **LIFE CYCLE ASSESSMENT (LCA)**, IN COMPLIANCE WITH THE ISO 14040 SERIES STANDARDS.

VALIDATOR



ENVIRONMENTAL BENEFITS ①



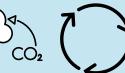












BUSINESS OBJECTIVES ①

































ARBON FOOTPRINT OF PRODUCTS

SUIDE GUIDE

ISO 14067:2018 GREENHOUSE GASES - CARBON FOOTPRINT OF PRODUCTS



DESCRIPTION

ISO 14067 DEFINES THE PRINCIPLES, REQUIREMENTS, AND GUIDELINES FOR THE QUANTIFICATION AND REPORTING OF THE PRODUCT CARBON FOOTPRINT (PCF), BASED ON INTERNATIONAL STANDARDS FOR LCA STUDIES (ISO 14040 AND ISO 14044).

THIS STANDARD PROVIDES ORGANIZATIONS WITH A METHOD TO CALCULATE THE CARBON FOOTPRINT OF THEIR PRODUCTS (DEFINED AS GOODS OR SERVICES) AND OFFERS THE OPPORTUNITY TO BETTER UNDERSTAND HOW TO REDUCE IT. WHILE BASED ON THE LCA APPROACH, ISO 14067 FOCUSES

WHILE BASED ON THE LCA APPROACH, ISO 14067 FOCUSES SOLELY ON THE IMPACT CATEGORY OF "CLIMATE CHANGE."

THE CARBON FOOTPRINT IS UNDERSTOOD AS THE SUM OF GREENHOUSE GAS (GHG) EMISSIONS AND REMOVALS THROUGHOUT THE LIFE CYCLE OF A PRODUCT.

VALIDATOR





ENVIRONMENTAL BENEFITS ①

















BUSINESS OBJECTIVES ①







































EU-CRCF (PRODUCTS) REG.(EU) 2024/3012 CARBON REMOVAL AND CARBON FARMING



DESCRIPTION

THE OBJECTIVE OF THE SCHEME IS TO FACILITATE AND ENCOURAGE THE ESTABLISHMENT, BY OPERATORS OR GROUPS OF OPERATORS, OF PERMANENT CARBON SEQUESTRATION, CARBON FARMING, AND CARBON STORAGE IN PRODUCTS, AS AN ADDITION TO LONG-TERM EMISSION REDUCTIONS ACROSS ALL SECTORS, IN ORDER TO ACHIEVE **EUROPEAN GOALS AND TARGETS.**

THE SCHEME REQUIRES THE PUBLIC DISCLOSURE OF PERMANENT CARBON SEQUESTRATION, CARBON FARMING, AND CARBON STORAGE IN PRODUCTS THROUGH THE CREATION OF A UNION REGISTRY.

FOR **STORAGE IN PRODUCTS**, IT REFERS TO **PRACTICES OR PROCESSES** THAT CAPTURE AND STORE ATMOSPHERIC OR BIOGENIC CARBON FOR AT LEAST 35 YEARS IN LONG-LASTING PRODUCTS. THESE PRACTICES MUST ALLOW ON-SITE MONITORING OF STORED CARBON AND BE CERTIFIED THROUGHOUT THE MONITORING PERIOD.

ENVIRONMENTAL BENEFITS ①

















BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①









VALIDATOR



CARBON REMOVALS AND



EUROPEAN COMMISSION DG ENERGY, CLIMATE CHANGE, ENVIRONMENT

















LEED®RATING SYSTEMS LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN



DESCRIPTION

LEED IS A VOLUNTARY SYSTEM DEVELOPED BY THE U.S. GREEN BUILDING COUNCIL. IT IS CONSENSUS-BASED AND FOCUSES ON THE DESIGN, CONSTRUCTION, AND MANAGEMENT OF SUSTAINABLE BUILDINGS AND HIGH-PERFORMANCE AREAS, AND IS INCREASINGLY BEING ADOPTED INTERNATIONALLY. LEED CAN BE APPLIED TO ALL TYPES OF BUILDINGS AND PROMOTES AN INTEGRATED DESIGN SYSTEM THAT ADDRESSES THE ENTIRE BUILDING.

THE AVAILABLE CERTIFICATION STANDARDS (RATING SYSTEMS) ARE CLASSIFIED BASED ON THE TYPE OF BUILDING TO BE CERTIFIED.

ENVIRONMENTAL BENEFITS ①















BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①











U.S. GREEN BUILDING COUNCIL



VALIDATOR

GREEN BUILDING COUNCIL ITALIA























FOR THE EVALUATION OF THE ENVIRONAMENTAL SUSTAINABILITY OF BUILDINGS PDR UNI 13.0:2023/13.1:2023/13.2:2023



DESCRIPTION

ITHE ITACA PROTOCOL IS AN EVALUATION TOOL FOR ASSESSING THE LEVEL OF ENERGY AND ENVIRONMENTAL SUSTAINABILITY OF BUILDINGS AND URBAN AREAS. IT ALLOWS FOR THE VERIFICATION OF A BUILDING'S PERFORMANCE NOT ONLY IN TERMS OF ENERGY CONSUMPTION AND EFFICIENCY BUT ALSO CONSIDERING ITS IMPACT ON THE ENVIRONMENT AND HUMAN HEALTH, THUS PROMOTING THE CREATION OF MORE INNOVATIVE AND SUSTAINABLE BUILDINGS.

THE PROTOCOL ALSO ENSURES THE OBJECTIVITY OF THE EVALUATION BY USING INDICATORS AND VERIFICATION METHODS THAT COMPLY WITH TECHNICAL STANDARDS AND **RELEVANT NATIONAL LAWS.**

ENVIRONMENTAL BENEFITS ①















BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①











BUILDINGS

VALIDATOR



ISTITUTO PER















BREEAM®

BUILDING RESEARCH ESTABLISHMENT ENVIRONMENTAL METHOD

DESCRIPTION

BREEAM IS AN ENVIRONMENTAL **SUSTAINABILITY ASSESSMENT** METHODOLOGY DEVELOPED IN 1988 BY THE BUILDING RESEARCH ESTABLISHMENT (BRE).

IT IS A CERTIFICATION DESIGNED TO MONITOR, EVALUATE, AND **CERTIFY THE SUSTAINABILITY OF BUILDINGS.**

TO OBTAIN BREEAM CERTIFICATION, IT IS NECESSARY TO ADOPT SUSTAINABLE PRACTICES NOT ONLY DURING THE DESIGN AND CONSTRUCTION PHASES OF BUILDINGS BUT ALSO THROUGHOUT SUBSEQUENT MANAGEMENT AND MAINTENANCE PROCESSES. THE BREEAM METHOD CAN BE APPLIED TO CERTIFY NEW CONSTRUCTIONS AND RENOVATION PROJECTS.

ENVIRONMENTAL BENEFITS ①



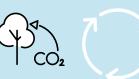












BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①











VALIDATOR













PUBLIC CARBON CREDITS REGISTRY CREA

DESCRIPTION

THE PUBLIC REGISTRY OF CARBON CREDITS GENERATED VOLUNTARILY BY THE NATIONAL AGROFORESTRY SECTOR WAS ESTABLISHED UNDER LEGISLATIVE DECREE 13/2023 (CONVERTED INTO LAW NO. 41 OF 21.04.2023).

THE SCHEME AIMS TO PROMOTE **SUSTAINABLE AGRICULTURAL** AND FORESTRY MANAGEMENT PRACTICES THAT ENHANCE THE ABILITY TO ABSORB ATMOSPHERIC CARBON.

SPECIFIC GUIDELINES FOR ELIGIBILITY FOR REGISTRATION IN THE REGISTRY ARE SET TO BE ESTABLISHED SOON AND WILL DEFINE THE CRITERIA FOR THE ESTABLISHMENT OF THE REGISTRY AND THE CERTIFICATION METHODS FOR THE CREDITS.

ENVIRONMENTAL BENEFITS ①

















BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①











D.L 24.02.2023 N.13



VALIDATOR

CREA - COUNCIL FOR ECONOMICS



















VERRA -VCS **VERIFIED CARBON STANDARD**



DESCRIPTION

VERRA IS THE LEADING GLOBAL "CARBON STANDARD" AND AIMS TO SUPPORT SUSTAINABLE DEVELOPMENT GOALS.

THE VERIFIED CARBON STANDARD (VCS) PROGRAM ALLOWS **PROJECTS** ELIGIBLE AND CERTIFIED TRANSFORM TO CONTRIBUTIONS TO GREENHOUSE GAS (GHG) EMISSION REDUCTIONS INTO TRADABLE CARBON CREDITS (VERIFIED **CARBON UNITS - VCU).**

ENVIRONMENTAL BENEFITS ①















BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①





















VERRA









GOLD STANDARD®(GS)

Gold Standard®

Climate Security & Sustainable Development

DESCRIPTION

WEBSITE

THE GOLD STANDARD (GS) IS A STANDARD THAT SETS THE REQUIREMENTS FOR IMPLEMENTING PROJECTS AIMED AT REDUCING CLIMATE-ALTERING EMISSIONS AND INCREASING CARBON SEQUESTRATION.

THE PROGRAM AIMS TO ENSURE THAT CARBON CREDITS ARE REAL AND VERIFIABLE, AND THAT PROJECTS PROVIDE MEASURABLE CONTRIBUTIONS TO SUSTAINABLE DEVELOPMENT.

ENVIRONMENTAL BENEFITS ①

















BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①











VALIDATOR















PLAN VIVO CERTIFICATE (PVC)



DESCRIPTION

THE PLAN VIVO SYSTEM IS A VOLUNTARY INITIATIVE BASED ON THE SUSTAINABLE USE OF LAND BY COMMUNITIES IN **DEVELOPING COUNTRIES.**

PLAN VIVO PROGRAMS AND PROJECTS ENABLE LONG-TERM CARBON STORAGE, ALONG WITH OTHER LOCAL BENEFITS SUCH AS BIODIVERSITY AND POVERTY REDUCTION.

THE SYSTEM INCLUDES THE "PLAN VIVO STANDARD", WHICH SETS THE CRITERIA THAT EACH PROJECT MUST MEET IN TERMS OF CARBON, LIVELIHOODS, AND ECOSYSTEMS.

ENVIRONMENTAL BENEFITS ①



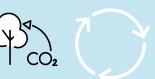












BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①











WEBSITE

VALIDATOR



GOLD STANDARD

















EU-CRCF - CERTIFICATION REG.(EU) 2024/3012 CARBON REMOVAL AND CARBON FARMING



DESCRIPTION

THE OBJECTIVE OF THE SCHEME IS TO FACILITATE AND ENCOURAGE THE IMPLEMENTATION OF PERMANENT CARBON REMOVALS, CARBON FARMING, AND CARBON STORAGE IN PRODUCTS BY MANAGERS OR GROUPS OF MANAGERS, AS A COMPLEMENT TO LASTING EMISSION REDUCTIONS ACROSS ALL SECTORS. IN ORDER TO ACHIEVE EUROPEAN GOALS AND TARGETS.

THE SCHEME INCLUDES THE OBLIGATION TO DISCLOSE PERMANENT CARBON REMOVALS, CARBON FARMING, AND CARBON STORAGE IN PRODUCTS THROUGH THE CREATION OF AN EUROPEAN UNION REGISTRY.

ENVIRONMENTAL BENEFITS ①

















BUSINESS OBJECTIVES ①















WOOD SUPPLY CHAIN PHASES ①









VALIDATOR



CARBON REMOVALS AND **CARBON FARMING** (EU WEBSITE)



EUROPEAN COMMISSION DG ENERGY, CLIMATE CHANGE, ENVIRONMENT















GUIDELINES FOR MANAGEMENT OF WOOD CONSUMPTION FOR ENERGY USE

DESCRIPTION

THE PROTOCOL AIMS TO ENHANCE THE VALUE OF LOCAL WOOD AND. WHEN POSSIBLE. PROMOTE ITS TRANSFORMATION INTO DURABLE, REUSABLE, AND/OR RECYCLABLE PRODUCTS AT THE END OF LIFE, ALLOWING FOR THE LONG-TERM STORAGE OF CO2

THE PROTOCOL ALSO INTENDS TO REAFFIRM THE **PRINCIPLE OF** CASCADING USE OF WOOD: THAT IS. THE USE OF WOOD ACCORDING TO THE PRINCIPLES OF THE CIRCULAR ECONOMY. RESERVING COMBUSTION ONLY FOR WOOD RESIDUES THAT CANNOT BE OTHERWISE UTILIZED.



THE PROTOCOL IS **CURRENTLY APPLICABLE** ONLY IN THE EMILIA-**ROMAGNA REGION**

VALIDATOR



D.G.R. 1629/2022 REGIONE EMILIA-**ROMAGNA**



EMILIA-ROMAGNA REGION -PROTECTED AREAS, NATURA 2000 AND **FORESTS**

ENVIRONMENTAL BENEFITS ①

















BUSINESS OBJECTIVES ①



































TOOLS

SUSTAINABLE FOREST MANAGEMENT CERTIFICATION OF CHAIN OF CUSTODY

PEFC CERTIFICATION **FSC CERTIFICATION**

ECO LABELS

ECOLABEL EU

EPD (ENVIRONMENTAL PRODUCT DECLARATION)

CARBON FOOTPRINT

MADE GREEN IN ITALY

EU-CRCF PRODUCTS

PEFC CERTIFICATION

FSC CERTIFICATION



GUIDELINES FOR CASCADING USE OF WOOD

BUILDINGS ENVIRONMENTAL CERTIFICATION

LEED RATING SYSTEMS **ITACA PROTOCOL BREEAM**

CARBON CREDITS

CARBON CREDIT REGISTRY - CREA

EU-CRCF REGULATION

VERRA-VCS

PLANT VIVO

GOLD STANDARD

ENVIRONMENTAL MANAGEMENT SYSTEMS

EMAS (ECO-MANAGEMENT AND AUDIT SCHEME)

<u>ISO 14001 - E</u>NVIRONMENTAL MANAGEMENT SYSTEMS

This document is a result of the LIFE BE-WoodEN project, within the activities outlined in **Work Package 4 - Innovation Lab (Task 4.1 - Innovation lab on valorization of environmental performances in the wood supply chain).**(March 2025 update)

LIFE BE-WoodEN

Buildings and Education in Wood Ecosystem for the New European Bauhaus

Project Acronym: LIFE23-PRE-IT-LIFE BE-WoodEN

Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

https://lifebewooden.unige.it

Project Leader



Project Partners





















Partners





