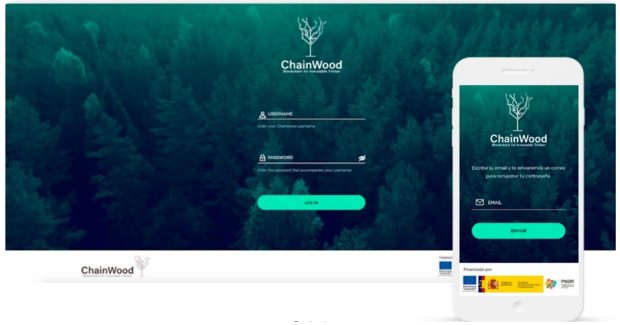
ChainWood | Blockchain for inmutable timber



ChainWood operational group combines capabilities of the timber and forestry sector with companies and technology centers for the development of software based on blockchain and IoT technology that will contribute to improve traceability, competitiveness and efficiency in the sector.

The objective of the ChainWood project is to design and develop a secure software infrastructure based on blockchain and Internet of Things technologies, adjusted to all wood supply chains, allowing the different actors to make the most of their data and manage the product in a more efficient way in terms of cost, traceability and sustainability. The main solutions to problems detected are: transaction assurance, Real-time trusted information, Semi-automation of the operation, Accessible quality data, Improved competition.

Recommendations:

- For producers: Real-time information on the volume and status of the product.
- For the processing industry: Access to a huge source of raw material data that will allow them to optimize their supply processes and streamline the management of their operations.
- For operating companies: Transparency and assurance in transactions, making the most of today's technology.
- For control authorities: Cost reduction in auditing and control processes, as well as a more precise knowledge of supply chains.
- For logistics companies: Information that will enable them to optimize their fleet and provide services more efficiently.
- For public administrations: Easier access to timber data, allowing a more agile and efficient management of the processes they supervise.

DETAILS

ORIGIN OF WOOD
Forest

TYPE OF WOOD
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KIND OF WOOD CONCERNED
Timber, roundwood

IMPACT ON ENVIRONMENT & BIODIVERSITY
The impact is high in a positive way because smarter solutions can be performed with the best impact in the environment and subsequently for biodiversity

INCOME EFFECT
Positive

EXPLOITATION POTENTIAL
High

HUB
South-West Hub

ECONOMIC IMPACT

MOBILIZATION POTENTIAL
Very high, as this tools provides the necessary information in a secure way to improve and increase the mobilization of wood

SUSTAINABILITY POTENTIAL - VALUE
Very Positive

EASE OF IMPLEMENTATION
Very easy, and person with basic knoledge in modern technology devices can use ChainWood

EASE OF IMPLEMENTATION - EVALUATION
Easy

KEY PREREQUISITES
Digitalization

TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED
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JOB EFFECT
Good

COSTS OF IMPLEMENTATION (EURO - €)

The planning of a company or forest owner will be more accurate, therefore, -- this will turn into better economic results

SPECIFIC KNOWLEDGE NEEDED

IT knowledge

MORE DETAILS

CHALLENGE ADDRESSED

5.- Enhance economic and environmental performance of forest supply chains

KEYWORDS

blockchain; Internet of Things

COUNTRY OF ORIGIN

Spain

DOMAIN

Inventory, monitoring

Products, markets, trade

DIGITAL SOLUTION

Yes

SCALE OF APPLICATION

National

TYPE OF SOLUTION

Traceability tools

INNOVATION

Yes

START AND END YEAR

2018 - 2020

CONTACT DATA

OWNER OR AUTHOR

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REFERENCES AND RESOURCES

MAIN WEBSITE

https://www.chainwood.eu/

PROJECT WEBSITE

https://www.fmc-galicia.com/

PROJECT REFERENCE

FEADER

RESOURCES

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LOGO OF BEST PRACTICE

ChainWood
Blockchain for Inmutable Timber

LOGO OF MAIN ORGANIZATION

PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

POST DATE

12 Jul 2021

ROSEWOOD 4.0 Sustainable Wood for Europe

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

ceseforo
Centro de Servicios y Promoción Forestal y de su Industria de Castilla y León

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