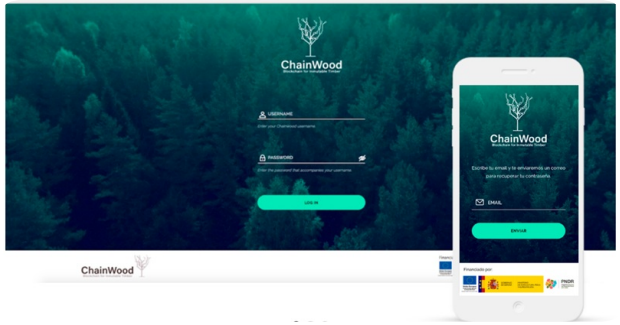
ChainWood | Blockchain for inmutable timber



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

HERKUNFT DES HOLZES
Wald

ART DES HOLZES
--

ART DES BETROFFENEN HOLZES
Timber, roundwood

AUSWIRKUNGEN AUF UMWELT UND BIODIVERSITäT
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

EINKOMMENSEFFEKT
Positive

VERWERTUNGSPOTENZIAL
High

NABE
Drehkreuz Süd-West

WIRTSCHAFTLICHE AUSWIRKUNGEN

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

POTENZIAL FüR NACHHALTIGKEIT - WERT
Sehr positiv

LEICHTE IMPLEMENTIERUNG
Very easy, and person with basic knoledge in modern technology devices can use ChainWood

LEICHTE IMPLEMENTIERUNG - BEWERTUNG
Einfach

WICHTIGE VORAUSSETZUNGEN
Digitalization

ART DER VERANSTALTUNG, AUF DER DIESE BPI VORGESTELLT WURDE
--

ARBEITSPLATZEFFEKT
Good

KOSTEN DER IMPLEMENTIERUNG (EURO - €)

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

SPEZIFISCHES WISSEN ERFORDERLICH

IT knowledge

MEHR DETAILS

ANGESPROCHENE HERAUSFORDERUNG

5. Verbesserung der wirtschaftlichen und ökologischen Leistung der forstwirtschaftlichen Forstlieferketten

DOMäNE

Bestandsaufnahme, Bewertung, Überwachung

Produkte, Märkte, Handel

ART DER LöSUNG

Rückverfolgbarkeitstools

SCHLüSSELWöRTER

blockchain; Internet of Things

DIGITALE LöSUNG

Ja

INNOVATION

Ja

HERKUNFTSLAND

Spanien

UMFANG DER ANWENDUNG

National

ANFANGS- UND ENDJAHR

2018 - 2020

KONTAKTDATEN

EIGENTüMER ODER AUTOR

FMC Forestal

Jesús Martínez

jesus.martinez@fmc-galicia.com

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

REPORTER

Cesefor Foundation

Ángela García

angela.garcia@cesefor.com

REFERENCES AND RESOURCES

HAUPT-WEBSITE

https://www.chainwood.eu/

PROJEKT-WEBSITE

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

PROJEKT-REFERENZ

FEADER

RESSOURCEN

--

LOGO DER BEST PRACTICE

ChainWood
Blockchain for Inmutable Timber

LOGO DER HAUPTORGANISATION

PROJEKT, IN DESSEN RAHMEN DIESES FACTSHEET ERSTELLT WURDE

Rosewood 4.0

BEITRAGSDATUM

12 Juli 2021

ROSEWOOD 4.0 Sustainable Wood for Europe

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

Link to Rosewood 4.0

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

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

EFI