Objective

The core objective of SINTETIC is to set up and demonstrate a traceability system for trees, logs and boards based on ICT through a central Geodatabase covering all the forest-based value chain.

This faces the 3 main drawbacks of the ICTs in the forestry sector:
- Deployed only in areas with mature timber market (North/Central EU vs. South EU).
- Currently cannot be used during the whole value chain, causing several losses.
- A reliable tool for tracing the origin of forest product is missing, still allowing illegal practices.

Along with the core objective, the SINTETIC proposal will pursue:
SOBJ1: To achieve a higher value recovery of timber assortments (+10%).
SOBJ2: To increase the overall efficiency of the timber supply chain.
SOBJ3: To provide a greater competitive advantage of the EU forest industry (yield of high value sawnwood products from 20% to 22%).
SOBJ4: To increase of the EU forested area under active management (aggregation of 12.000 ha fragmented properties).
SOBJ5: To increase both the timber value, the resilience and the ecosystem services provided.
SOBJ6: To tackle illegal logging and the related timber trade (-15%).
SOBJ7: To facilitate a homogeneous and widespread uptake of the ICTs in the forest sector.

The main expected results are:
RES1: Manual marking and quality assessment (traceability system).
RES2: Smartphone APP for motormanual operations.
RES3: Processor head prototype.
RES4: Harvester LiDAR.
RES5: Sawmill sensors and traceability of sawnwood.
RES6: Earth observation illegal logging alert service.
RES7: Forest ownership aggregation platform.

To make all this possible, SINTETIC will develop a geodatabase with a set of data providers interconnected by the traceability system. It'll provide:
1) Multi-platform data acquisition for the whole supply chain.
2) Data transmission with sesecured digital tools and physical IDs on timber products.
3) Data storage, analysis and distribution for the generation of further services.

Fields of science

agricultural sciences  >  agriculture, forestry, and fisheries  >  forestry  >  silviculture
engineering and technology  >  electrical engineering, electronic engineering, information engineering  >  electronic engineering  >  sensors
natural sciences  >  biological sciences  >  ecology  >  ecosystems
engineering and technology  >  electrical engineering, electronic engineering, information engineering  >  information engineering  >  telecommunications  >  mobile phones

Keywords

Forest products traceability
Programme(s)

HORIZON.2.6 - Food, Bioeconomy Natural Resources, Agriculture and Environment

HORIZON.2.6.3 - Agriculture, Forestry and Rural Areas

Topic(s)

HORIZON-CL6-2022-CIRCBIO-02-06-two-stage - Harnessing the digital revolution in the forest-based sector

Call for proposal

HORIZON-CL6-2022-CIRCBIO-02-two-stage

See other projects for this call

Funding Scheme

HORIZON-IA - HORIZON Innovation Actions

Coordinator

CONSORCI CENTRE DE CIENCIA I TECNOLOGIA FORESTAL DE CATALUNYA

Net EU contribution

€ 1 045 000,00

Address

Ctra. st. llorenç de morunys km 2
25280 Solsona
Spain

Region

Este > Cataluña > Lleida

Links

Contact the organisation  Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00
Participants (20)

MICROTEC S.R.L.
Italy
Net EU contribution
€ 624 925,00
Address
Via julius durst 98
39042 Brixen - bressanone
SME
Yes
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Nord-Est > Provincia Autonoma di Bolzano/Bozen > Bolzano-Bozen
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 267 825,00

BLUEBILOBA STARTUP INNOVATIVA SRL
Italy
Net EU contribution
€ 136 675,00
Address
Via coluccio salutati 78
50126 Firenze
Region
Centro (IT) > Toscana > Firenze
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 58 575,00

OTMETKA HOLDING AB

Sweden

Net EU contribution
€ 1 045 537,50

Address
Vasterberga 114
755 96 Uppsala

Region
Östra Sverige > Östra Mellansverige > Uppsala län

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 448 087,50

SIMTRONA, RAZVOJNA DEJAVNOST, D.O.O

Slovenia

Net EU contribution
€ 119 175,00

Address
Liskur 7
5000 Nova gorica

SME
Yes

Region
Slovenija > Zahodna Slovenija > Goriška

Links
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Participation in EU R&I programmes
UNIVERSITATEA TRANSILVANIA DIN BRASOV

Romania

Net EU contribution

€ 546 875,00

Address

Bdul eroilor 29
500036 Brasov

Region

Macroregiunea Unu > Centru > Brașov

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

INNORENEW COE CENTER ODLICNOSTI ZA RAZISKAVE IN INOVACIJE NA PODROČJU OBNOVLJIVIH MATERIALOV IN ZDRAVEGA BIVANJSKEGA OKOLJA

Slovenia

Net EU contribution

€ 478 750,00

Address

Livade 6a
6310 Izola

Region

Slovenija > Zahodna Slovenija > Obalno-kraška

Activity type

Research Organisations

Links
ASSOCIAZIONE FORESTA MODELLO DELLE MONTAGNE FIORENTINE

Italy

Net EU contribution
€ 150,375.00

Address
Via poggio alla cuna 7
50060 Londa (FI)

Region
Centro (IT) > Toscana > Firenze

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0.00

TREEMETRICS LIMITED

Ireland

Net EU contribution
€ 610,400.00

Address
6 south mall
T12 Cork

SME
Yes

Region
Ireland > Southern > South-West

Links
<table>
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<tr>
<th>Organisation</th>
<th>Country</th>
<th>Net EU Contribution</th>
<th>Address</th>
<th>Region</th>
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| PIVETEAUBOIS                         | France  | € 112 875,00        | La vallee 85140 Essarts en bocage           | Pays de la Loire > Vendée | Contact the organisation  
Participation in EU R&I programmes  
HORIZON collaboration network |
| CONSIGLIO NAZIONALE DELLE RICERCHE   | Italy   | € 952 500,00        | Piazzale aldo moro 7 00185 Roma             | Centro (IT) > Lazio > Roma | Contact the organisation  
Website  
Participation in EU R&I programmes  
HORIZON collaboration network |
ARBOREAL AB
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€111,125,00
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SME
Yes
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Norra Sverige > Övre Norrland > Västerbottens län
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€47,625,00

BOSCAT FUSTA SL
Spain
Net EU contribution
€54,600,00
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Carrer castelladral 5
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Region
Este > Cataluña > Barcelona
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
LABORATORIO DI MONITORAGGIO E MODELLISTICA AMBIENTALE PER LO SVILUPPO SOSTENibile - LAMMA

Italy

Net EU contribution
€ 250,000

Address
Via madonna del pianio 10
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Region
Centro (IT) > Toscana > Firenze

Links
Contact the organisation ➤ Website ➤ Participation in EU R&I programmes ➤ HORIZON collaboration network

Other funding
€ 0,00

ITA-SUOMEN YLIOPISTO

Finland

Net EU contribution
€ 682,500

Address
University of eastern finland, school of forest science, yliopistokatu 7
80101 Joensuu

Region
Manner-Suomi > Pohjois- ja Itä-Suomi > Pohjois-Karjala

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Other funding
€ 23,400
FISKARHEDENS TRAVARU AKTIEBOLAG
Sweden
Net EU contribution
€ 112 875,00
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Fiskarheden 139
780 68 Transtrand
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Norra Sverige > Norra Mellansverige > Dalarnas län
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SILVADOR COMPANY SRL
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€ 86 800,00
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130009 Pucheni municipality
Region
Macroregiunea Trei > Sud-Muntenia > Dâmbovița
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ASOCIACION NACIONAL DE EMPRESAS FORESTALES
Spain
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€ 80 625,00
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Comunidad de Madrid > Comunidad de Madrid > Madrid
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Other funding
€ 0,00

EUROPEAN ORGANISATION OF THE SAWMILL INDUSTRY
Belgium
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€ 233 750,00
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Rue montoyer 24
1000 Bruxelles / brussel
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Links
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HORIZON collaboration network
Other funding
€ 0,00

KONEYRITTAJIEN RY
Finland
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€ 32 287,50
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Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa
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Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 13 837,50

ASOCIATIA FORESTIERILOR DIN ROMANIA ASFOR
Romania
Net EU contribution
€ 80 000,00
Address
Sos pipera 46 a sector 2
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HORIZON collaboration network
Other funding

€ 0,00

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Permalink: https://cordis.europa.eu/project/id/101082051

European Union, 2023