

Development of a web/Android App for logistics and resin traceability

SustForest Plus Project



International Workshop

Resin resource monitoring & modelling in a context of climate change

Madrid (Spain) - 21/01/2019

Coordinator



Partners



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774632

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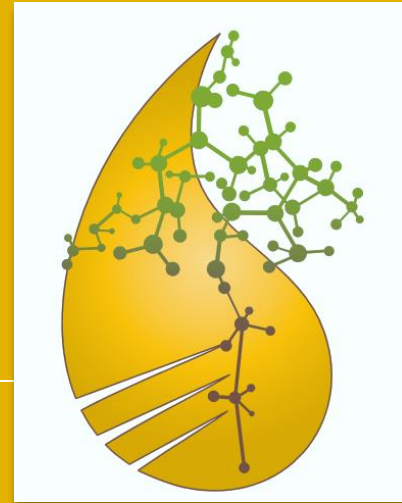


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SustForest Plus Project

Strategy and collaborative networks for multifunctionality, forest conservation and employment in the territory of South Western Europe through resin extraction.



SustForest Plus

General Objective:

Consolidate the recovery of natural resin extraction in southern European forests for the supply of local industry, job creation and protection of natural resources.

- Co-financed by the INTERREG SUDOE program through the European regional development fund of the European Union
- Coordinated by the Cesefor Foundation
- 8 Beneficiary partners and 23 associate partners
- April 2018 to March 2021

Coordinator



Partners



Interreg Sudoe

European Regional Development Fund



SOE2/P5/E0598

www.sust-forest.eu

SOCIOS | PATERNAIRES | PARCEIROS | PARTNERS



ASOCIADOS | ASSOCIÉS | ASSOCIADOS | ASSOCIATES



Proyecto cofinanciado por el Programa Interreg Sudoe a través del Fondo Europeo de Desarrollo Regional

Priority Project Objectives



Contribute to consolidate southwest European forests as a sustainable source of natural resin for the industry.



Improve the resin tappers working conditions.



Contribute to consolidating the demand for natural resins proceeding from Southwest Europe.

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Project Structure



TG.1. Strategy for sustainable forest use of European natural resins.



TG.2. Plan for the improvement of the quality of work of the resin tappers.



TG.3. Plan for the promotion of European natural resin as a technological and sustainable product.

31 Project products

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TG.1. Strategy for sustainable forest use of European natural resins.

- Analysis of territorial potential and definition of strategic objectives.
- Tools for the sustainable management of the resource.
- European Network of Resin Territories

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TG.2. Plan for the improvement of the quality of work of the resin tappers.

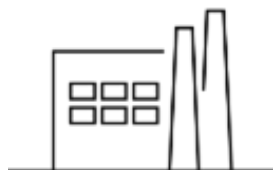
- Socioeconomic characterization of the resin tappers population.
- Workers activity support by territorial contract model.
- Improved tools for resin harvesting: stimulants and mecanization.
- Support for entrepreneurship.

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TG.3. Plan for the promotion of European natural resin as a technological and sustainable product.

- Value chain analysis.
- Carbon footprint.
- Basis for a guarantee label of origin.
- Web/Android app for logistic and traceability.
- System for market intelligence.

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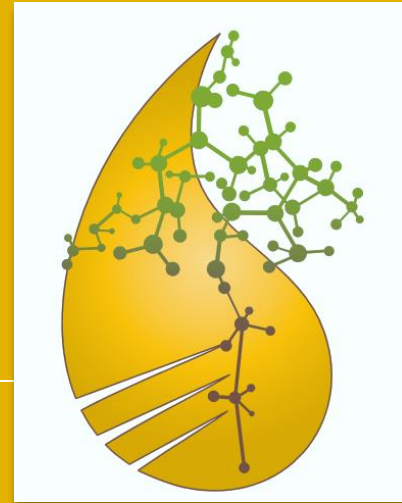


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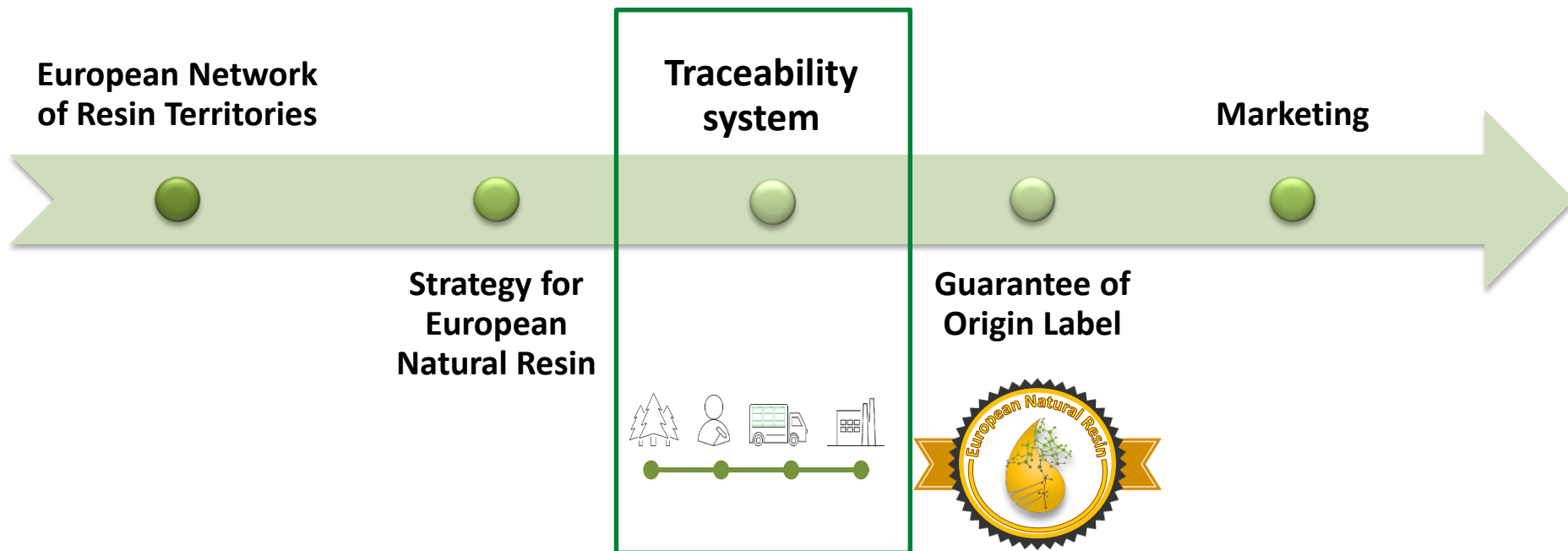
ResinApp

A web/Android App
for logistics and resin traceability



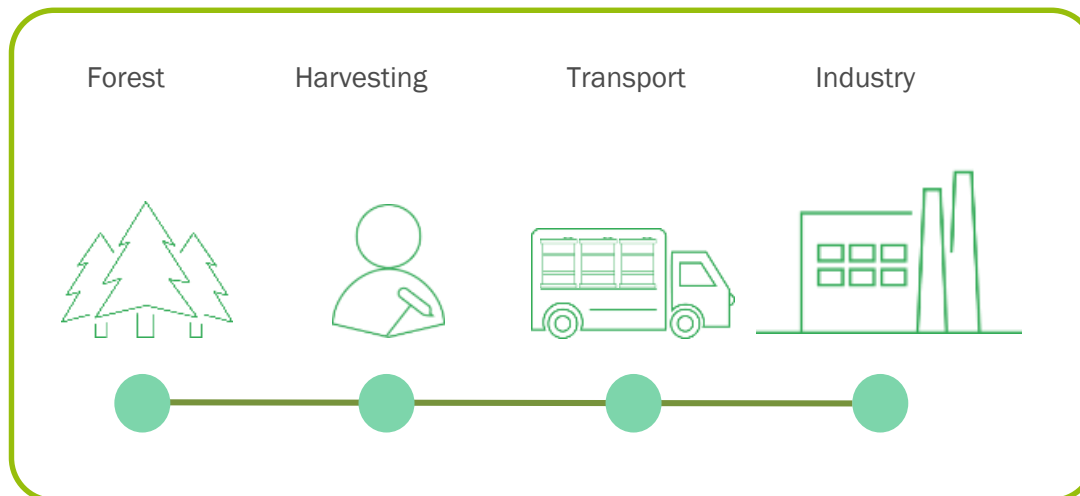
From sustainable production to market

The added values of the European natural resin are linked to the territory.



A logistical tool for the resin industry and resin tappers

- Logistic work coordination.
- Improved users communication.
- Document management.
- Support for sustainable forest management.
- Monitoring of yields and production.



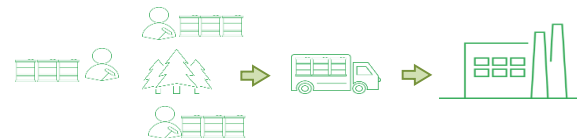


ResinApp



ResinWeb

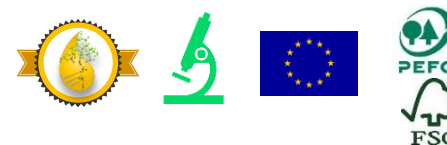
Logistics



Traceability



Origin and quality

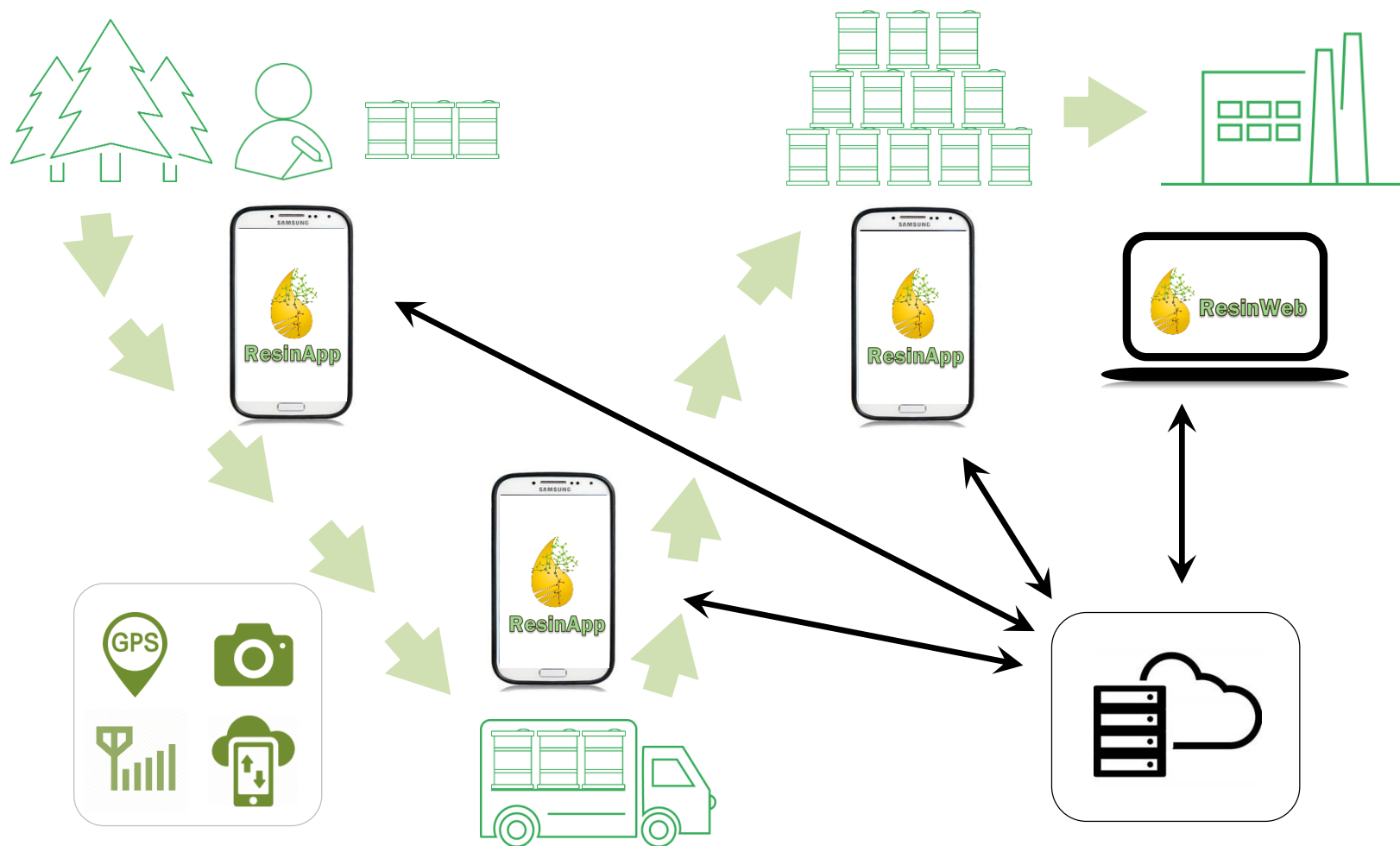


Document management



Statistics





Basic functionalities of the system

- Capture, identification and recording of the **geographical resin origin information**.
- Exchange, identification and registration of **administrative documentation** between the industry and the resin tapper.
- **Real time communication** between the system users to coordinate the logistic operations.

Design Process

1. Definition of the traceability and logistics system - DONE
2. Programming of the web/android application - ONGOING
3. Pilot implementation of the system – This season

The ResinApp

The app as a resource monitoring system

Process monitoring

OPERATION	MILESTONE	AGENT	DOCUMENTATION
1. Previous operations	<ul style="list-style-type: none"> ▪ Pine trees rental ▪ Signature of Purchase -Sale of resin contract ▪ Introduction the exploitation in the supply system of industry 	<ul style="list-style-type: none"> ▪ Resin tapper ▪ Forest owner ▪ Forestry director ▪ Forest manager ▪ Administrative 	<ul style="list-style-type: none"> Contract to lease pines for resin Permission of the Forestry administration Certificate of sustainable forest management Purchase-sale contract of Resin
2. Preparation, resining and remassing	<ul style="list-style-type: none"> ▪ Start of the resin work ▪ Container distribution ▪ Harvesting (up to four throughout the campaign) 	<ul style="list-style-type: none"> ▪ Resin tapper ▪ Forest manager ▪ Carrier 	
3. Transport form forest to factory	<ul style="list-style-type: none"> ▪ Collecting the resin in forest ▪ Reception of the resin and temporary storage 	<ul style="list-style-type: none"> ▪ Resin tapper ▪ Forest manager ▪ Carrier ▪ Scale operator 	<ul style="list-style-type: none"> Delivery note Of Miera
4. Heavy and emptying drums	<ul style="list-style-type: none"> ▪ Heavy ▪ Emptying ▪ Reduction discount 	<ul style="list-style-type: none"> ▪ Scale operator ▪ Administrative ▪ Distillation line manager ▪ Resin tapper 	<ul style="list-style-type: none"> Physical of heavy
5. Resin Clearance	<ul style="list-style-type: none"> ▪ Checking of packing and weighing ▪ Billing 	<ul style="list-style-type: none"> ▪ Administrative ▪ Resin tapper 	<ul style="list-style-type: none"> Delivery notes of resin Resin Sales Invoice

Valuable data and analysis for industry

The system allows easy digitization of data in real time

- Production data at forest scale
- Resin quality data at forest scale
- Production data at regional level

The system makes it easy to analyze key aspects for the industry

- Monitoring the evolution of the campaign
- Analysis of productive efficiency
- Campaign planning
- Design of medium and long term business strategies

Thank you!

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