







Innovative value chains from tree & shrub species grown in marginal lands as a source of biomass for bio-based industries

Project number: 887917

D9.1. Project Website

Due date of deliverable: 28/02/2021 Actual submission date: 06/02/2021







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PROJECT INFORMATION

Project full title: Innovative value chains from tree & shrub species grown in marginal lands as a source of

biomass for bio-based industries

Acronym: BeonNAT

Call: H2020-BBI-JTI-2019

Topic: BBI-2019-S01-R1

Start date: July 1st 2020

Duration: 60 months

List of participants:

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N⁰	Acronym	Participant organisation name
1 (Coordinator)	CIEMAT	Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas
2	CESEFOR	CESEFOR
3	REC	Renewal Energy Consortium for Research and Demostration
4	AIM	Instituto Tecnológico del Plástico
5	ATB	Leibniz Institute for Agricultural Engineering and Bioeconomy
6	BTU	Brandenburg University of Technology Cottbus-Senftenberg
7	USV	Universitatea Stefan el Mare, Suceava
8	IPB-CIMO	Centro de Investigação de Montanha / Instituto Politécnico de Bragança
9	CTA	Contáctica
10	IDS	IDOASIS 2002 S.L.
11	EJAR	El Jarpil
12	ENV	Envirohemp
13	NNFCC	The Bioeconomy Consultants NNFCC
14	TOLSA	TOLSA
15	MAVERICK	Laboratorios Maverick
16	PEFC	Asociación para la Certificación Española Forestal

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DELIVERABLE DETAILS

Document Number:	D9.1
Document Title:	Project Website
Dissemination level	PU – Public
Period:	PR1
WP:	WP9. Communication, Dissemination & Exploitation
Task:	Task 9.1. Project website
Author:	contactica s.L. Contactica innovation
Abstract:	Development of the project website. The project web contains general information of the project, the members of the consortium and the most relevant events, news and articles related to the involved sectors.

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1 INTRODUCTION

BeonNAT website has been developed as a platform to publish the project and their results as well as to share information among the consortium members.

BeonNAT website is open and accessible from November 2020.

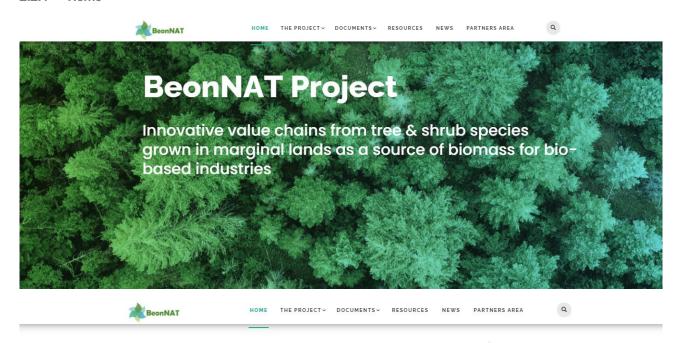
2 BeonNAT WEBSITE

2.1 Project's website link

https://beonnat.eu/

2.2 Parts of the website

2.2.1 Home



BEONNAT PROJECT

BeonNAT proposes to use marginal lands in Europe to obtain forest biomass for the production of **8 products based on new bio-based value chains**.

This way, BeonNAT will allow the production of biodegradable bio-based products and bioactive compounds that will play an important role TO REPLACE FOSSIL-BASED COMPETING SUBSTITUTE PRODUCTS.

BeonNAT will help to mitigate the impacts of climate change, enabling smarter and more sustainable products and materials, to make the most efficient use of our renewable natural resources, as well as providing huge economic opportunities for the bio-based economy in Europe.



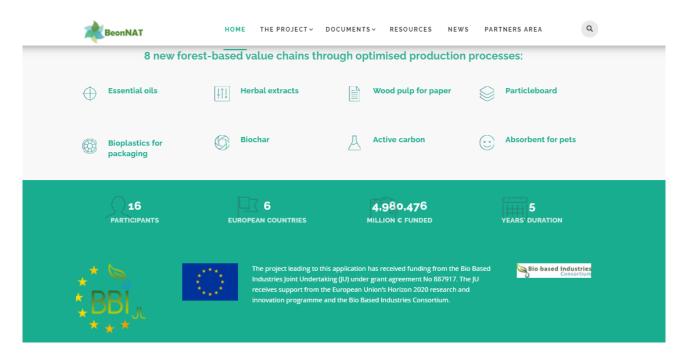


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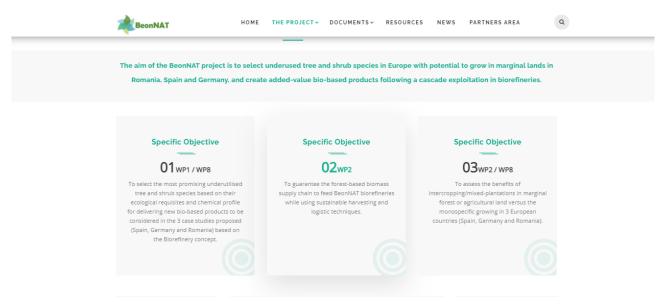






2.2.2 The Project

a) Objectives



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NEWS

PARTNERS AREA



Specific Objective

04wp1/wp8

To define agricultural and forest marginal land in Spain, Germany and Romania to grow BeonNAT feedstock and identify potential marginal lands in the three countries to ensure future supply.

Specific Objective

U5WP3/4/5/6/7

To validate 8 new forestbased value chains through optimised production processes.

Specific Objective

06_{WP8}

To demonstrate environmental, social & economic feasibility of the BeonNAT cascade biorefinery by conducting a Life Cycle Sustainability Assessment (LCSA) including Land Use Change Assessment.

Specific Objective

07_{WP1}

To maximize the impact of the BeonNAT project through a tailored Business Plan and Dissemination and Communication Plan

b) Work packages



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Work Package 1

Underutilised tree & shrub species screening

0.1.1. To select the most promising underutilized species according to their ecological requisites and their chemical composition for the bio-based industries;

O.1.2. To evaluate tree and shrub species as feedstock for the new BeonNAT biobased value chain;

O.1.3. To assess marginal lands selection according to the legal framework.

Work Package 2

Biomass cultivation, harvesting, logistics and supply plan

O.2.1 To test the benefit of intercropping/mixed-forest in marginal forest or agricultural land versus the natural growing in three different European countries (Spain, Germany, Romania); O.2.2 To provide final industry partners the feedstock(Biomass) supply for the BeonNat refinery;

O.2.3 To establish final species for every final product/application;

0.2.4 To test different harvesting and logistics systems in order to evaluate the whole value chain of the studied products;

0.2.5 To characterise biomass waste to BeonNat biorefinery self-supply

Work Package 3

Essential oils and vegetal extracts

0.3.1 To develop and test an innovative concept of harvesting baling and on-site distillation; O.3.2 To characterize best methodology to obtain high added-value compounds with functional properties;

0.3.3 To establish the best final species for essential oil and biochemical

O.3.4 To describe final product specifications;

O.3.5 To identify and isolate added-value by products for bioplastics (WP4) and absorbent for pets (WP6) production.

Work Package 4

PLA bioplastics for packaging

0.4.1. To produce fermentable sugars from the fibrous residue remaining after extracting herbal extracts;

O.4.2. To test and characterise lactic acid production from this new feedstock;

O.4.3. To test and characterise poly-lactic acid production;

O.4.4. To produce a new added-value bioplastic with bioactive properties due to the by-product (WP3) incorporation;

 $\hbox{O.4.5. To produce the packaging required for cosmetic applications.} \\$

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Work Package 5

Biochar and active carbons production

O.5.1. To test and characterise Biochar and Active Carbon production from new feedstock; O.5.2. To establish the requirements for Biochar and Active carbon as final products.

Work Package 6

Development of new absorbents for pet industry

O.6.1 To define the best species and additive formulation for pet industry absorbents:

O.6.2. Selection of optimum process parameters for pellet production;

O.6.3 To prepare a basic design for commercial scale production of pellet

O.6.4 To evaluate the techno-economic viability of new bio-based added-value absorbent pellets production

Work Package 7

Wood pulp and particleboard preparation

O.7.1 To test and characterise the production of wood pulp from biomass;

O.7.2 To test and characterise the paper production from wood pulp; 0.7.3 To test and characterise the production of particleboards from biomass;

0.7.4 To establish the requirements for final products



Work Package 8

Market, biodiversity and value chain sustainability assessments O.8.1 Selection of the final underutilized species for BeonNat refinery;

O.8.2 To identify main areas of marginal land suitable for growing BeonNat species in three different European countries.;

O.8.3 To perform and intermediate environmental, social and economic life cycle assessment of BeonNat value chains focused on critical issues to steer the development process in the right direction;

O.8.4 To evaluate all final BeonNat bio-products environmental, social and economic impacts from a life cycle perspective and compare their environmental

impacts with respect to products aimed to be substituted; O.8.5 To demonstrate the economic and environmental feasibility of the BeonNat



THE PROJECT - DOCUMENTS - RESOURCES NEWS PARTNERS AREA

criteria point of view including business aspects.

Work Package 9

Communication, dissemination and exploitation

O.9.1 To facilitate the communication between partners and with different

 ${\tt 0.9.2\,To}$ disseminated project results among target sectors, industry and scientific community; O.9.3 To maximize the impact of BeonNat results through appropriate exploitation strategies.



Project Management

O.10.1 To form a strong organizational structure to achieve effective and result-

 $\rm O.10.2\,To$ ensure that goals and objectives are clearly defined and visible throughout the project;

0.10.3 To monitor progress among planned and actual activities. To identify risks and issue corrective action plan as necessary;

O.10.4 To setup active administrative and technical management during the project life, ensure timely delivery of all the management and technical reports to the EC and efficient financial management

c) Partners



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Members of the Consortium

The BeonNAT project Consortium is constituted by 15 partners: 8 RTO, 5 SME, 2 LE and 1 association.

All partners have been chosen in order to provide the suitable multidisciplinary knowledge, skills and expertise to obtain the expected output of scientific and technological results.









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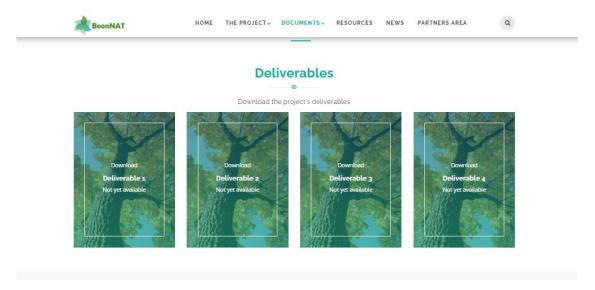




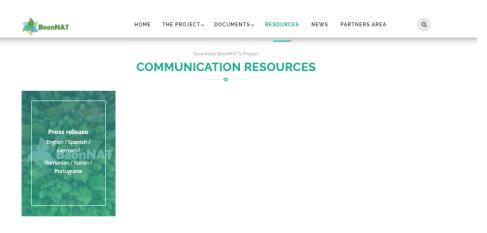


2.2.3 Documents

In the Documents, deliverables and newsletters will be uploaded. Regarding deliverables, only the public ones will be uploaded.



2.2.4 Resources



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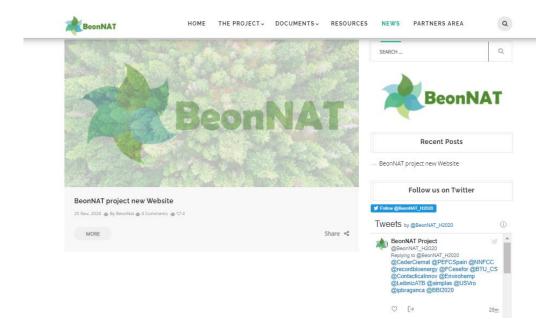




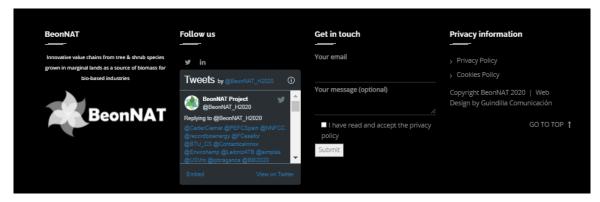




2.2.5 News



2.2.6 Website foot-page



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