XYLOFOREST

Xyloforest is a research, innovation and service platform for cultivated forest systems, products and materials. Its objective is to contribute to the adaptation of forest resources to climate change. Its scientific objective is to improve knowledge and implement innovative solutions to increase the use of wood in construction, improve wood quality and develop green chemistry. The scope covers the entire forest-wood chain: Xylomic: genomics and tree phenotyping Xylobiotech: forest biotechnologies Xylosylve: innovative silvicultural systems Xyloplate: advanced wood engineering Xylomat: Composite wood-based products and biosourced materials Xylochem: Wood chemistry and bio-refinery Xyloforest developed in 2011 following the call for projects “Equipement d'Excellence” of the future investment program (ANR-10-EQPX-16). The project is scheduled to end in 2020, and the grant received for its entire duration is €10.2 million. The aid is distributed among the various partners for the purchase of equipment. Each technical platform has a laboratory with specific equipment to host new collaborative projects. Laboratories can provide the scientific community with premises, or data and host measurement and experimental equipment. They can also contribute their experience for product and service developments (e.g. STRADIVERNIS project for the development of an industrial varnish based on rosin and vegetable oil from the Xylomat platform). The XYLOFOREST platform is a support for teaching on forests and wood with more than 130 students trained, including 57 doctoral students since 2013.

DETAILS

ORIGIN OF WOOD

Forest

TYPE OF WOOD

Stemwood

KIND OF WOOD CONCERNED

Stemwood

IMPACT ON ENVIRONMENT & BIODIVERSITY

Positive impact with equipment to assess the environmental balance of silvicultural systems (platforme Xylosylve)

INCOME EFFECT

NA

EXPLOITATION POTENTIAL

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HUB

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ECONOMIC IMPACT

NA

MOBILIZATION POTENTIAL

High potential for mobilization (not quantified)

SUSTAINABILITY POTENTIAL - VALUE

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EASE OF IMPLEMENTATION

Medium: purchase and use of new equipment, monitoring of devices and experiments

EASE OF IMPLEMENTATION - EVALUATION

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KEY PREREQUISITES

NA

TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED

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JOB EFFECT

Creation of jobs related to the new activities of the laboratories and many internships and theses related to the project

COSTS OF IMPLEMENTATION (EURO - €)

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SPECIFIC KNOWLEDGE NEEDED

High technical and scientific knowledge

MORE DETAILS

CHALLENGE ADDRESSED

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DOMAIN

Research and development

TYPE OF SOLUTION

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KEYWORDS

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DIGITAL SOLUTION

No

INNOVATION

No

COUNTRY OF ORIGIN

France

SCALE OF APPLICATION

National

START AND END YEAR

2011 - 2020

CONTACT DATA

OWNER OR AUTHOR

REPORTER

remy.petit@inra.fr

REFERENCES AND RESOURCES

MAIN WEBSITE

http://www.xyloforest.org/

RESOURCES

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PROJECT WEBSITE

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PROJECT REFERENCE

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PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood

POST DATE

17 Sep 2019

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY