Virtual Forest 2.0

Virtual forest is an application, which can be used in participatory planning of land use, guidance of forest owners and for combining interests of different stakeholder groups concerning utilization of natural resources and areas.

Virtual forest 2.0 is a research and development project that has developed a digital application to enable the visualization of forest resources and spatial data in 3D. A virtual forest is software that can be utilized in participatory land use planning, advising forest owners, and taking into account the goals of user and interest groups in the areas.The virtual forest can be used to increase citizens' understanding of different forest management options and to illustrate the landscape effects of a forest plan. The virtual forest can be used to visualize the holdings of any forest owner, and the application is compatible with various information systems in the forest industry.The virtual forest 2.0 uses open QGIS geographic information system to generate changes in forest patterns or tree data, habitat data and terrain data in a virtual 3D-visualization. The free downloadable Virtual Forest 2.0 application was released in October 2020.

DETAILS

ORIGIN OF WOOD

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TYPE OF WOOD

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KIND OF WOOD CONCERNED

Woodlands and forests

IMPACT ON ENVIRONMENT & BIODIVERSITY

High, since the results of forestry operations can be demonstrated in the 3D forest enviroment

INCOME EFFECT

Positive

EXPLOITATION POTENTIAL

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HUB

Northern Hub

ECONOMIC IMPACT

Positive

SPECIFIC KNOWLEDGE NEEDED

Comprehensive database, coding skills, understanding of forestry processes.

MOBILIZATION POTENTIAL

high

SUSTAINABILITY POTENTIAL - VALUE

Medium

EASE OF IMPLEMENTATION

Requires IT skills

EASE OF IMPLEMENTATION - EVALUATION

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KEY PREREQUISITES

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TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED

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JOB EFFECT

Positive

COSTS OF IMPLEMENTATION (EURO - €)

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MORE DETAILS

CHALLENGE ADDRESSED

3.- Activate private owners and cooperative forest management

KEYWORDS

virtual; application; visualization

COUNTRY OF ORIGIN

Finland

DOMAIN

Inventory, monitoring

Ownership, cooperation

DIGITAL SOLUTION

Yes

SCALE OF APPLICATION

National

TYPE OF SOLUTION

Modelling, simulation, optimization

INNOVATION

Yes

START AND END YEAR

2018 - 2020

CONTACT DATA

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REFERENCES AND RESOURCES

MAIN WEBSITE

https://virtualforest2.wordpress.com/home/

PROJECT WEBSITE

https://virtualforest2.wordpress.com/fi/

PROJECT REFERENCE

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RESOURCES

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LOGO OF BEST PRACTICE

LOGO OF MAIN ORGANIZATION

LAPIN AMK
Lapland University of Applied Sciences

PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

POST DATE

12 Aug 2021

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

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY