

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	
	high
TYPE OF WOOD	
	SUSTAINABILITY POTENTIAL - VALUE
	Medium
KIND OF WOOD CONCERNED	EASE OF IMPLEMENTATION
Woodlands and forests	Requires IT skills
IMPACT ON ENVIRONMENT & BIODIVERSITY	EASE OF IMPLEMENTATION - EVALUATION
High, since the results of forestry operations can be	
demonstrated in the 3D forest enviroment	
INCOME EFFECT	KEY PREREQUISITES
Positive	
Positive	
Positive EXPLOITATION POTENTIAL	
EXPLOITATION POTENTIAL	 TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED
EXPLOITATION POTENTIAL HUB	 TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED
EXPLOITATION POTENTIAL	 TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED
EXPLOITATION POTENTIAL HUB Northern Hub	 TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED JOB EFFECT Positive
EXPLOITATION POTENTIAL HUB Northern Hub ECONOMIC IMPACT	 TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED JOB EFFECT
EXPLOITATION POTENTIAL HUB Northern Hub	 TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED JOB EFFECT Positive

SPECIFIC KNOWLEDGE NEEDED

Comprehensive database, coding skills, understanding of forestry processes.

MORE DETAILS

CHALLENGE ADDRESSED	DOMAIN
3 Activate private owners and cooperative forest	Inventory
management	Ownersh
KEYWORDS	DIGITAL
virtual; application; visualization	Yes
COUNTRY OF ORIGIN	SCALE O
Finland	National

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 _____

MAIN WEBSITE https://virtualforest2.wordpress.com/home/ PROJECT WEBSITE https://virtualforest2.wordpress.com/fi/ PROJECT REFERENCE

RESOURCES



PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

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(C)





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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



