

## 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.

## PODROBNOSTI

---

### PÔVOD DREVA

--

### DRUH DREVA

--

### UVAŽOVANÝ DRUH DREVA

Woodlands and forests

### VPLYV NA ŽIVOTNÉ PROSTREDIE A BIODIVERZITU

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

### DOPAD NA PRÍJMY

Positive

### POTENCIÁL VYUŽITIA

--

### ROZBOČOVAČ

Severný uzol

### EKONOMICKÝ VPLYV

Positive

### POTREBA ŠPECIFICKÝCH ZNALOSTÍ

Comprehensive database, coding skills, understanding of forestry processes.

### MOBILIZAČNÝ POTENCIÁL

high

### POTENCIÁL UDRŽATEĽNOSTI - HODNOTA

Stredná

### UĽAHČENIE IMPLEMENTÁCIE

Requires IT skills

### UĽAHČENIE IMPLEMENTÁCIE - HODNOTENIE

--

### KĹÚČOVÉ PREPOKLADY

--

### TYP PODUJATIA, NA KTOROM BOL TENTO BPI PREZENTOVANÝ

--

### DOPAD NA ZAMESTNANOSŤ

Positive

### NÁKLADY NA IMPLEMENTÁCIU (EURO - €)

--

## VIAC INFORMÁCIÍ

---

### RIEŠENÁ VÝZVA

3. Aktivizácia súkromných vlastníkov a družstevného obhospodarovania lesov

### Kľúčové SLOVÁ

virtual; application; visualization

### KRAJINA PôVODU

Fínsko

### DOMAIN

Inventarizácia, posudzovanie,  
monitoring/monitorovanie

Vlastníctvo

### DIGITALNE RIEŠENIE

áno

### ROZSAH APLIKÁCIE

Národný

### TYP RIEŠENIA

Modelovanie, simulácia, optimalizácia

### INOVÁCIE

Áno

### ZAČIATOK A KONIEC ROKA

2018 - 2020

## KONTAKTNÉ ÚDAJE

---

### VLASTNÍK ALEBO AUTOR

Lapland University of Applied Sciences

Markus Korhonen

markus.korhonen@lapinamk.fi

<https://www.lapinamk.fi/fi>

### REPORTÉR

Lapland University of Applied Sciences

Merja Laajanen

merja.laajanen@lapinamk.fi

## REFERENCES AND RESOURCES

---

### HLAVNÁ WEBSTRÁNKA

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

### PROJEKTOVÁ WEBSTRÁNKA

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

### REFERENCIA PROJEKTU

--

### ZDROJE

--

PROJEKT, V RÁMCI KTORÉHO BOL TENTO INFORMAČNÝ PREHÍAD VYTVORENÝ  
Rosewood 4.0

DÁTUM ODOSLANIA  
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

