ROSEWOOD4.0 Best Practices & Innovations

November's choice

ROSEWOOD4.0 harnesses the most innovative digital solutions in forestry and drives knowledge transfer to connect multiple actors along the forest value chain with the aim of strengthening the sustainability of wood mobilisation, forest management and the wood industry in Europe.

From the European-wide network ROSEWOOD4.0, we bring you every month a selection of digital applications and best practices collected in our **Knowledge Platform for Regional Forest Innovation** to offer forestry and wood industry stakeholders more opportunities to improve and modernise their activities and make them more sustainable and efficient.

Topic of the month: Simulation and visualisation tools

iWald - Forest growth simulation app

Country: Germany
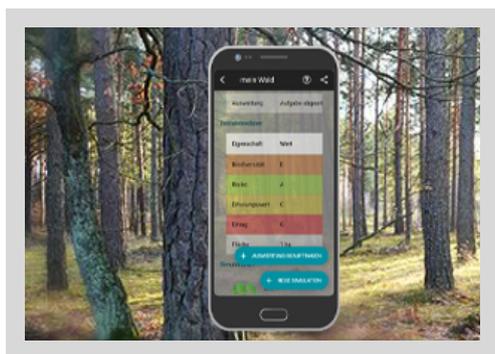
iWald is a project that developed a smartphone application that **compares silvicultural treatments and simulates forest growth processes on the smartphone**. Through this digital solution, forest managers and professionals can access realistic and technically sound options for the sustainable management of their forests.

This tool aims to improve the resilience and adaptation of forests to climate change, one of the main challenges currently facing the forestry sector.

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Virtual Forest 2.0 – 3D technology to shape your forest plot

Country: Finland
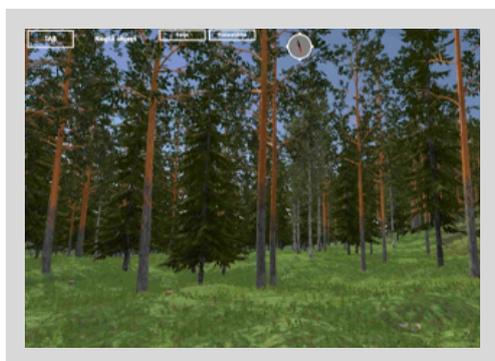
Virtual Forest 2.0 enables efficient 3D visualisation of forest stands based on accurate data and forest management options. The application **improves participatory land-use planning, guides forest owners and helps different stakeholder groups understand what their forest will look like in the future**.

The virtual forest can be used to increase citizens' understanding of different forest management options and to activate private landowners' communities and cooperative forest management.

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HiVision - Virtual reality support for crane operators

Country: Sweden
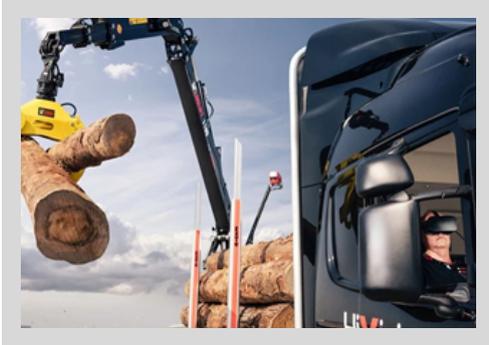
HiVision is the industry leading innovative **digitalisation solution that provides individual crane operators with vision to safely carry out any timber loading task** without having to leave the truck cabin.

This technology allows the operator, with a virtual reality headset, to sit in the cab of the truck and use joysticks to operate the crane's functions, which improves the efficiency and profitability of wood transport and mobilisation tasks.

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AVATAR - Advanced Virtual Aptitude and Training Application in Real Time

Countries: Germany, Norway and Sweden
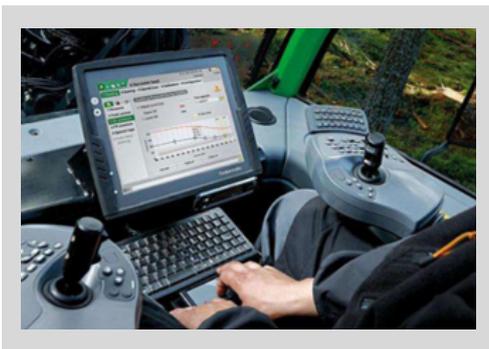
AVATAR project develops **a digital coach that supports modern forestry workers individually on the job**, as today's modern forestry machines today have a complex user interface, requiring up to 3,500 actuations/h.

With AVATAR, machine control systems and sensor technology gather targeted information to guide the operator towards more balanced working methods and techniques as well as a greater precision and quality of forest operations in the EU.

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In a nutshell - Join the forestry revolution with ROSEWOOD4.0!

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