



Konstantin M February 08, 2022 ↻

Network to innovate: New Innovative Technologies in Forestry

To ask a question or make a new thread, press the "+" sign under the title of the presentation

Your Voice Matters: Ideas & Reflections

- ↻ Share your thematic ideas for future events, suggest speakers or topics, and post your reflections or recommendations regarding the event experience.

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Precision Forestry Management (Latvia)

- ↻ How can technology help us manage forests more precisely and make better decisions? **Andrejs Zujevs** from Riga Technical University will introduce practical developments in precision forestry, highlighting several EIP Operational Group projects where new technological solutions are being tested and applied. The presentation will explore how unmanned aerial vehicles (UAVs), software applications, and digital tools can support forest monitoring, data collection, and more informed forest management.

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Tuija Kallio Sep 08, 2026 11:04am

The challenges you described are true. I hope that part of these could be solved now when preparing the new MFF / planning new R&I priorities at EU level.

Darius Sep 08, 2026 11:25am

I think most of these challenges need to be addressed at the national level. Issues such as bureaucracy, administrative procedures or hourly rates are often linked to national regulations and local conditions rather than directly to EU-level rules.

Kimmo Vänni Sep 08, 2026 01:46pm

Combining UAVs and smart forest robotics would be a great next step. Think about also dual-use.

An exoskeleton for supporting lower limb in brush cutting (Finland)

⇒ **Kimmo Vänni** from Häme University of Applied Sciences will introduce the development of a lower-limb support exoskeleton designed to reduce physical strain and improve productivity in forestry maintenance tasks such as brush cutting and tree planting. Developed in collaboration with vocational education providers, forestry experts, entrepreneurs, and international research partners, the prototype aims to make manual forestry work lighter, more efficient, and more attractive to a wider range of workers. The project demonstrates how innovative wearable technologies can support the future of sustainable forestry by improving working conditions and creating new opportunities in the sector.



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Krzysztof Polowy Sep 08, 2026 11:22am

Kimmo, a fantastic piece of engineering! I would like to enquire about collaboration opportunities with the Poznań University of Life Sciences. I have some experience with the ergonomics of using a brush cutter to cut unwanted vegetation in young stands, focusing mostly on noise and vibration. In Poland, this would also be a significant area of work (as well as clearing), as these tasks are mostly carried out manually. I would like to offer our experience and potential participation in such an exciting development project. Let's keep in touch! Krzysztof Polowy, krzysztof.polowy@up.poznan.pl, PULS

Kimmo Vänni Sep 08, 2026 01:42pm

Hi Krzysztof. Many thanks for your interest. Definitely, we can discuss collaboration possibilities. We are interested in RDI as well as education / training possibilities. I have quite long-term background from human-related and social robotics which is one topic in life sciences.

⇒ **What kind of feedback you have received from the forest owners piloting the exoskeletons?**

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Andrejs Zujevs Sep 08, 2026 11:32am

Dear Kimmo! Your presented technology is very promising, and I hope it will become a real market product in the future. However, we have interesting ideas about how to automate agrotechnical tending. If you are interested in this, please write to andrejs.zujevs@rtu.lv.

Kimmo Vänni Sep 08, 2026 12:28pm

Dear Andrejs. Thanks for your presentations as well. Yes, we are interested in and I know RTU from my previous RDI project. We had an Interreg project OSIRIS (<https://interreg-baltic.eu/project/osiris/>) with you earlier

Selected Remote Sensing Methods Used in Polish Forestry (Poland)

⇒ **Ewa Kurowska and Bernard Okoński** from the Poznań University of Life Sciences will present practical applications of modern remote sensing technologies in Polish forestry. The presentation will showcase how digital measurement, photo-optical and LiDAR sensors, airborne laser scanning (ALS), and GIS systems can support more accurate and efficient forest management. The speakers will share examples of digital measurement of roundwood stacks, a technique that has recently become a standard in Polish State Forests, as well as the use of ALS data to monitor forest conditions, assess the effects of management activities, identify threats and losses caused by natural disasters, and support planning. The presentation will highlight how remote sensing can provide valuable data for sustainable forest management, resource assessment, fire-risk mapping, infrastructure planning, and monitoring changes in forest ecosystems.



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Darius Sep 08, 2026 11:26am

We are discussing innovative technologies in forestry – remote sensing, exoskeletons, robotics and other digital solutions. However, even in 2026, reliable internet connectivity is still not available in many rural and forest areas across Europe. Without adequate connectivity, the practical uptake of these technologies remains limited – and we can see that connectivity is still an issue even during our meeting today!

Kimmo Vänni Sep 08, 2026 01:53pm

We should consider options such as Starlink even if it also has some flaws.

European Partnership for Forests, Forestry and the forest-based sector: Research and innovation for a Sustainable Transition

⇄ **Mika Kallio** from the Ministry of Agriculture and Forestry of Finland will introduce the European Forest Partnership and highlight new opportunities for international cooperation, research, and innovation in the forest sector. The presentation will explore how researchers, advisors, practitioners, policymakers, and innovators can engage with future partnership activities, build international connections, and contribute to the development of new solutions for sustainable forestry. It will also provide an insight into how European cooperation can help turn research and innovation into practical opportunities for the future of forests and forestry.



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Andrejs Zujevs Sep 08, 2026 11:47am

Thank you for the presentation and future view!

MikaK Sep 08, 2026 12:07pm



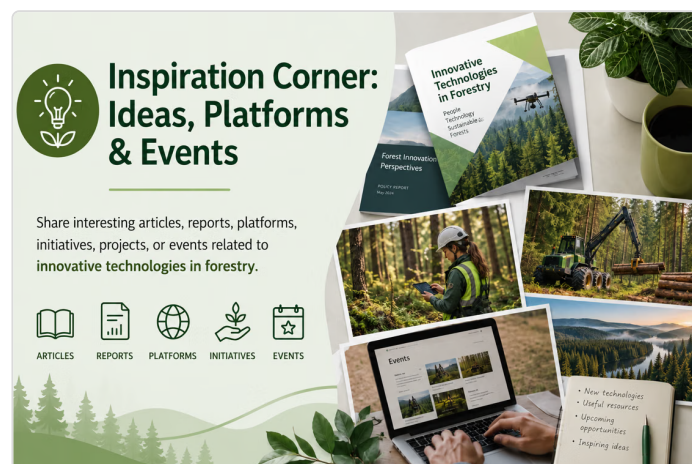
Inspiration Corner: Ideas, Platforms & Events

⇄ Share interesting articles, reports, platforms, initiatives, projects, or events related to new innovative solutions in forestry

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MikaK Sep 08, 2026 12:42pm

Until we have the new website for the European Forest Partnership open, please find more information here: [FOREST Partnership » ForestValue2](#).





If you are interested in Nature Credit Markets and Agri-Environmental Innovations, there is a topical event taking place in Finland in November 2026.

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Advancing Nature Credit Markets and Agri-Environmental Innovations in Europe - the Finnish Rural Network

