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RESDINET NEWS

Next-generation forest science to tackle real-world threats: From LiDAR towers to phenotyping labs



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TOP NEWS OF SEPTEMBER - OCTOBER 2025

RESDINET AT A WORLD- LEADING UAV EVENT

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The RESDiNET team joined UAV-g 2025 in Finland to explore the latest advances in UAV sensing, AI mapping and early bark-beetle detection. Key insights included under-canopy autonomy, hyperspectral pre-symptom warning tools and LiDAR-based navigation in challenging forest conditions. The event strengthened RESDiNET's international partnerships and supports Slovakia's capacity to turn cutting-edge research into practical forest protection tools.

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The RESDiNET team visited the University of Helsinki's Hyytiälä Forest Station with colleagues from NLS FGI to explore cutting-edge one-of-a-kind in the world forest above-canopy LiDAR and the SMEAR II flux towers for real-time Living Lab forest monitoring. Field checks showed a likely defoliator event rather than bark beetle damage, demonstrating why accurate diagnosis matters.

WORLD'S ONLY PERMANENT FOREST LIDAR TOWER

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RESDINET AT EUROPE'S BARK BEETLE SUMMIT IN CZECHIA

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Resdinet partners from Finland, Sweden and Slovakia shared new research at Forests' Future 2025 in Průhonice, Prague, a major European conference on bark beetle outbreaks. Presentations covered early detection, modelling, forest resilience and climate adaptation strategies. The event showcased how global expertise and excellence networking strengthen local capacity to manage real forest threats. These exchanges support evidence-based forest management across Europe and highlight the importance of coordinated, science-led responses to disturbance.

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The Slovak RESDiNET team visited Photon Systems Instruments (PSI) near Brno to access world-class phenotyping infrastructure for spruce drought and heat-stress experiments. PSI's automated plant imaging platforms, including transparent root systems and controlled environment chambers, enable precise monitoring of above- and below-ground responses. This collaboration connects cutting-edge technology with forest resilience research. By linking academic science and industrial innovation, RESDiNET strengthens evidence-based solutions for real forest threats.

HIGH-TECH PHENOTYPING IN CZECHIA