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# RESDINET NEWS

Modelling change, growing resilience: Advancing climate adaptation skills across Europe



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## TOP NEWS OF JULY - AUGUST 2025

### FINNISH BARK BEETLE RESEARCH IN NATIONAL NEWS

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Helsingin Sanomat, Finland's largest newspaper, featured RESDINET research on bark beetle impacts in Koli National Park. University of Eastern Finland researchers highlighted rising spruce mortality and the beetles' easy access to weakened trees. They warn that continued dry, hot summers, and snow damage could keep the outbreak going for 5–10 years.

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Researchers at the Finnish Geospatial Research Institute have developed robotic drones and AI tools to detect early *Ips typographus* infestations in spruce forests. By spotting crown and trunk symptoms weeks before they are visible to the human eye, forest managers can act faster and target affected trees. This RESDINET innovation could be scaled up to protect forests across Finland.

### AI DRONES FIGHT BARK BEETLES

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## ADVANCING CLIMATE ADAPTATION MODELLING

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Slovak researchers from the RESDiNET project joined leading European forest scientists at a summer school in Austria to improve advanced modelling skills for climate adaptation. The training strengthened their ability to predict forest responses and design evidence-based strategies for resilience. This reflects RESDiNET's mission to bring global expertise to Slovakia and empower local teams to address real forest threats. Participants also gained hands-on experience in climate modelling tools, opening new opportunities for collaboration and innovation in future forest research.

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The RESDiNET team visited LIECO, Central Europe's leading nursery for climate-resilient seedlings, to see precision forestry in action. Researchers learned how high-tech propagation, controlled root development and long-term planning support healthier forests under climate stress. The visit showed how scientific modelling connects directly to real-world planting solutions. LIECO's innovations include custom seedling containers, controlled substrates, chemical-free weed management, and a fully automated irrigation system powered by filtered, recycled water.

## CLIMATE- SMART SEEDLINGS IN PRACTICE