

SWIFTT will provide forest managers with affordable, simple and effective remote-sensing tools backed up by Copernicus-satellite imagery and powerful machine-learning models

Dear SWIFTT Community,

As we step into 2024, we're pleased to share with you our project's achievements over its first year.

The SWIFTT platform, and its web and mobile apps, are currently under development by our technology partners. It will provide foresters with detailed maps of areas in their forests at risk of windthrow damage, insect outbreaks, and wildfire.

Meanwhile, our research partners are working hard in the analysis of satellite imagery and the creation and improvement of the AI models that will make possible for SWIFTT identify those forest threats.

Finally, in the first quarter of 2024, our end-user partners will start collecting precise, time-stamped and geo-referenced forest data sets that will be used as input for training our AI models, allowing SWIFTT to provide much more precise information.

With SWIFTT, we will equip forest managers with an affordable, simple, and effective remote sensing technology to monitor forests at risk across Europe, and to deal with forest threats proactively and efficiently allocating resources for prevention and mitigation of ecological and economic impacts.

We look forward to all the great developments to come and hope to have you on board for this journey.

Warmest regards,
The SWIFTT Team.

Forward this Newsletter to your colleagues and help us grow our community!



Watch SWIFTT's first video!

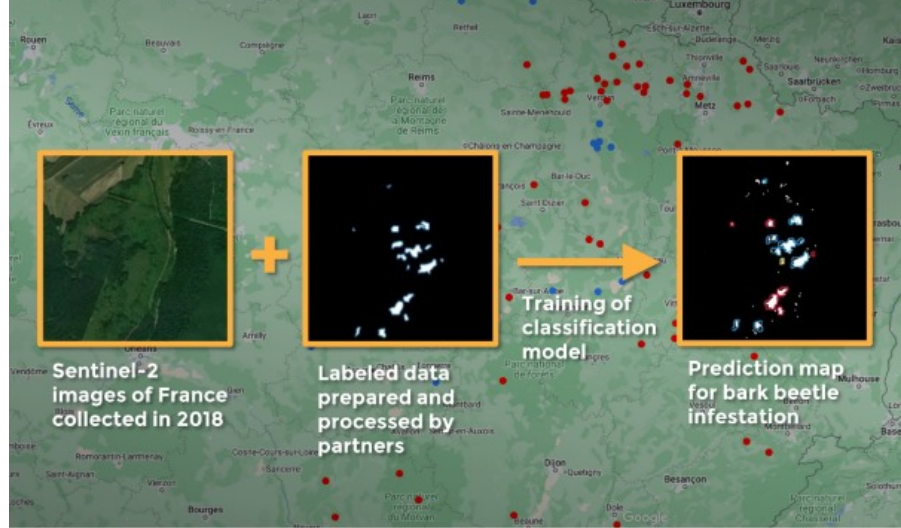
RESEARCH HIGHLIGHTS



Separated by War: Deforestation and Reforestation in the Ukrainian Emerald Network

In a study published in Nature Communications Earth & Environment, partners from the Space Research Institute of Ukraine found stark differences in forest dynamics between Ukraine- and Russia-controlled territories between 2014 and 2020.

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SILVIA - An eXplainable Framework to Map Bark Beetle Infestation in Sentinel-2 Images

In their recent paper, partners from University of Bari Aldo Moro, explore how machine learning methods can be used to map bark beetle infestation hotspots in Sentinel-2 images by leveraging spectral vegetation indices and performing self-training.

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What is up with SWIFTT?

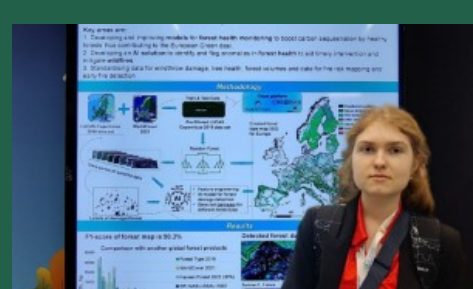
April 2024



SWIFTT partners will present their work at the 39th ACM/SIGAPP Symposium On Applied Computing in Avila, Spain.

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November 2023



Space Research Institute of Ukraine presented the project at the GEO Week and the Ministerial Summit 2023 in Cape Town, South Africa.

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November 2023



UNIBA presented a recently published study at the 3rd International Joint Conference on Learning & Reasoning (IJCLR) held in Bari, Italy.

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October 2023



Space Research Institute of Ukraine presented the project at the EuroGEO workshop in Bolzano, Italy.

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August 2023



The SWIFTT project was highlighted in a report by the United Nation's UNOOSA and EUSPA.

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July 2023



Space Research Institute of Ukraine presented the project at the IEEE EUROCON 2023 conference in Torino, Italy.

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June 2023



Space Research Institute of Ukraine co-organised the International Summer School in Data Analytics.

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June 2023



Timbrack and Groupe Coopération Forestière were at the EUROFOREST 2023 in Saint-Bonnet-de-Joux, France.

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May 2023



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