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SPATRA PROJECT NEWSLETTER – SUMMER EDITION

Welcome to the Second Issue of the SPATRA Newsletter

Smarter Transport, Grounded in Data, Powered by Space

From predicting rail track buckling to advancing road safety with IoT, the SPATRA project is putting satellite data and AI into real-world use. As we move forward in shaping more resilient and sustainable transport systems, we're excited to share a snapshot of our recent progress.

Research Highlights

Monitoring Rail Infrastructure from Space

The SPATRA team has published a comprehensive review on the use of Earth Observation (EO) data for railway infrastructure monitoring. The paper outlines current capabilities, challenges, and the potential of EO to support maintenance and planning in the rail sector.

[Read more](#)

AI-Driven Rail Buckling Risk Estimation

This SPATRA publication focuses on estimating rail buckling risk using satellite data combined with artificial intelligence. Presented approach demonstrates how predictive models can enhance safety by assessing heat-induced risks to rail tracks.

[Read more](#)

Project in Action

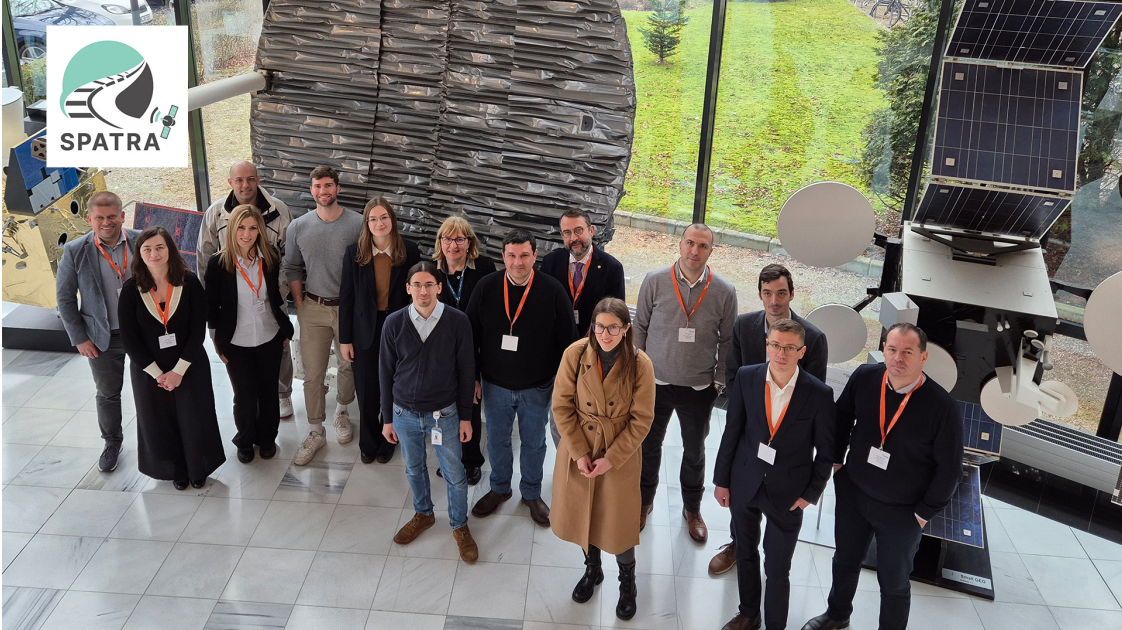


A Greener Future for Transport

The SPATRA project continues to support the transition to a more sustainable and resilient transport network. A recent article highlights SPATRA's role in integrating satellite data, AI, and climate adaptation planning to support long-term environmental goals.

[Read more](#)

Project Milestone



SPATRA Holds the First Review Meeting in Bremen

The consortium gathered in Bremen, Germany, for the first project review meeting with the EC/EUSPA Project Officer and Expert Reviewers. Partners presented key results from the first 12 months, including use case updates and upcoming activities.

[Read more](#)

Knowledge Sharing

Webinar Spotlight: IoT and Road Transport

This webinar showcased SPATRA's research on how Internet of Things (IoT) technology is used to monitor and improve road transport systems. The recording and presentations are now available online.

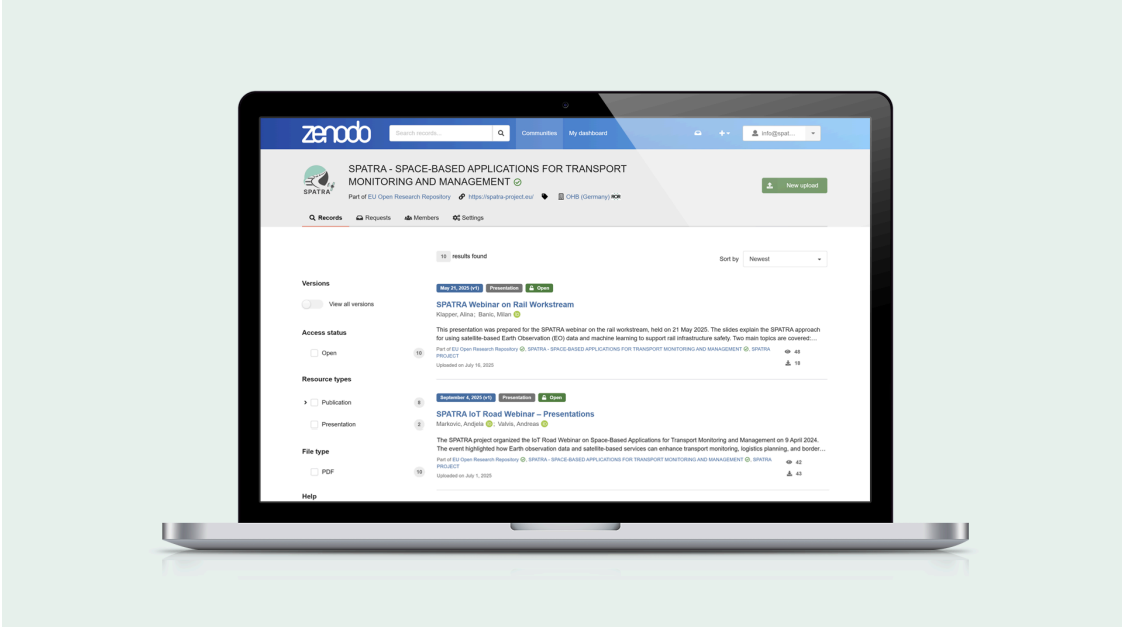
[Watch and explore](#)

Webinar Spotlight: Satellites and Rail Resilience

Experts presented how Earth Observation and machine learning are applied to enhance rail safety. Topics included satellite-based temperature monitoring and prediction of rail buckling risks.

[Watch and explore](#)

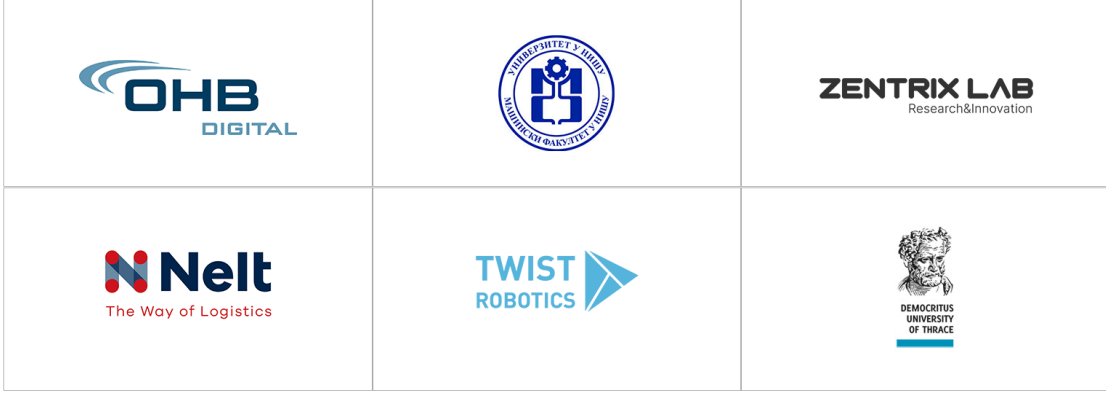
Open Access Resources



Explore the SPATRA Community on Zenodo

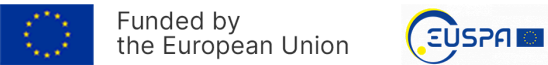
SPATRA has launched a dedicated community on Zenodo to provide open access to its publications, datasets, and materials. Visit the community page to browse and download official project outputs.

[Visit the Zenodo community](#)



STAY TUNED!

Stay updated on all our latest news, developments, research and general information regarding the SPATRA project.



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