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Welcome to the first edition of the **SPATRA Project Newsletter**. We are sharing updates on our progress, use cases, and project partners as we work to improve transport systems across Europe using space-based technologies.

## About the SPATRA Project

The SPATRA Project (Space-Based Applications for Transport Monitoring and Management) leverages **European Global Navigation Satellite Systems (EGNSS)** and **Copernicus Earth observation satellites to improve road and rail transport**. Our focus is on reducing congestion, supporting infrastructure monitoring, and fostering environmentally friendly transport solutions.

[Learn more](#)

## Use Cases



### Use Case 1: Road Transport Optimization

The SPATRA project uses **satellite technology to optimize road transport by reducing congestion at border crossings and improving parking management for freight vehicles**. Through data from EGNSS and Copernicus, we enhance traffic flow, decrease waiting times, and minimize environmental impacts associated with long vehicle idling.

[Learn more](#)



### Use Case 2: Rail Infrastructure Monitoring

To ensure safe and reliable rail transport, **SPATRA uses Copernicus satellite data to monitor rail track temperatures and predict potential issues caused by temperature fluctuations**. Early detection of track deformations allows for timely maintenance, reducing service disruptions and enhancing rail safety.

[Learn more](#)

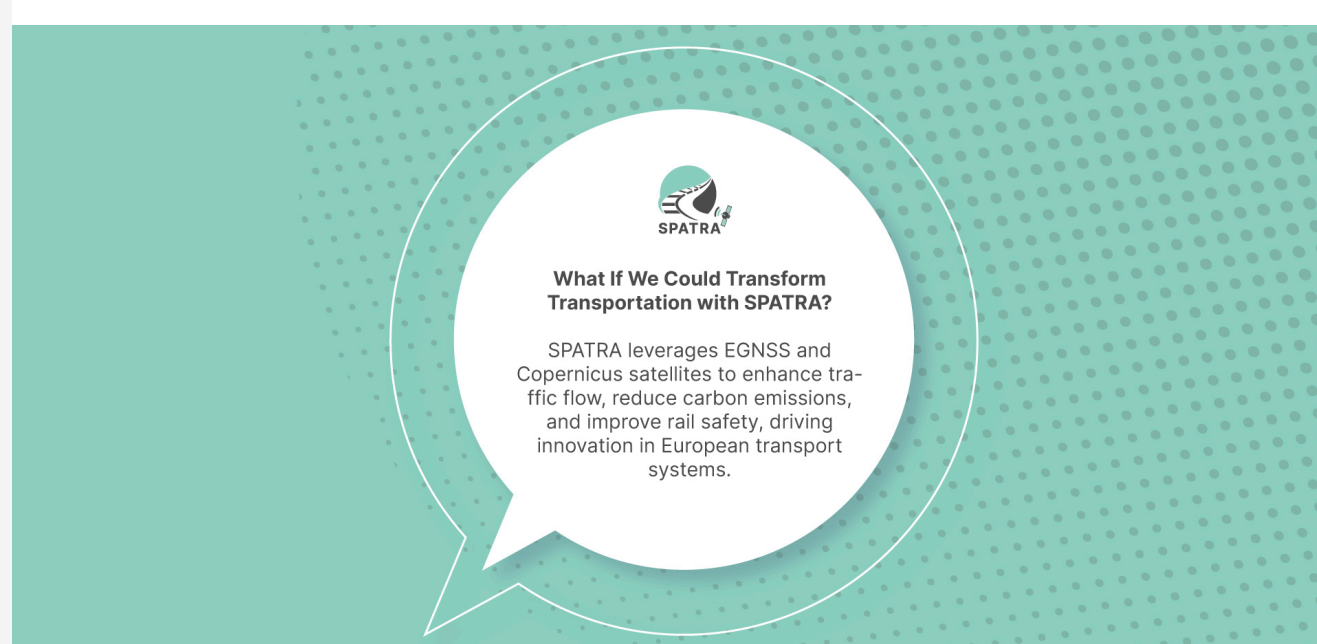
## Our Partners



We collaborate with a network of leading industry experts and research institutions, including:

- **OHB Digital Services** – An IT service and software company with over 30 years of experience, specializing in developing cloud-based solutions, including 24/7 commercial applications with maintenance contracts.
- **University of Niš (UNI) Department: Faculty of Mechanical Engineering** – Engaged in research and technical expertise, contributing to the development and implementation of innovative solutions in mechanical engineering.
- **Zentrix Lab** – An SME with departments in Research & Innovation and web3 development, focusing on the application of Distributed Ledger Technology (DLT), Internet of Things (IoT), and Artificial Intelligence (AI) in various fields.
- **Nelit** – Founded in 1992, Nelit Group is one of 1 business systems in the Adriatic region in the field of logistics and distribution, employing over 5.500 people in 18 companies across 12 markets in Europe and Africa.
- **Twist Robotics** – Specializing in robotics and contributing to the advancement of robotic technologies and their applications.
- **Democritus University of Thrace (DUTH)** – Through its Laboratory of Robotics and Automation (LRA), DUTH focuses on advanced research in robotics, automation, and Industry 4.0 technologies, including drone technology for applications like autonomous navigation and aerial monitoring.

## Latest News



### What If We Could Transform Transportation with SPATRA?

Imagine a future where transport systems are smarter, more efficient, and environmentally sustainable. The SPATRA project is turning this vision into reality by integrating space-based technologies into Europe's transport infrastructure. By harnessing satellite data and advanced analytics, SPATRA is redefining how we manage and optimize transport systems across roads and railways.

[Learn more](#)



### Workshop: Advanced Satellite-Based Technology in Land Transport

As part of Railicon '24, SPATRA organized a workshop on advanced satellite-based technology in land transport. Industry leaders, researchers, and project partners gathered to share insights on the practical applications of satellite technologies in improving transport infrastructure. The event highlighted SPATRA's innovative approach to integrating satellite-based monitoring and management into Europe's transport ecosystem.

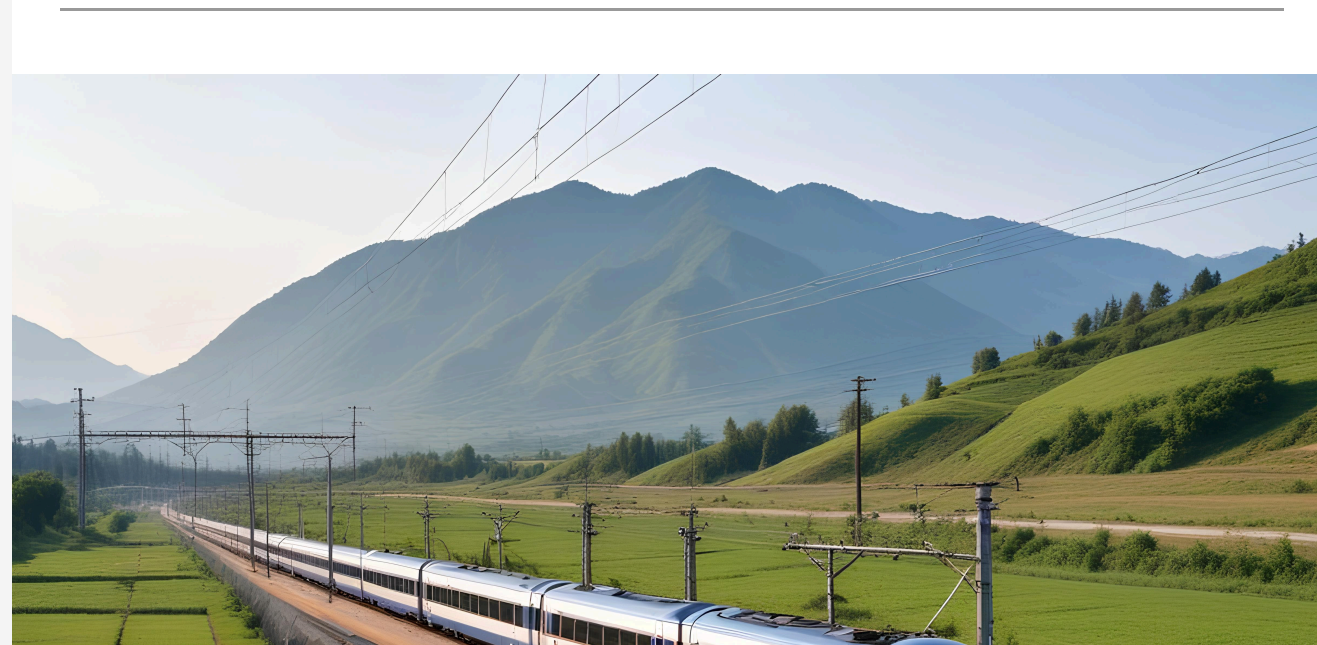
[Learn more](#)



### SPATRA Showcases Innovations at Railicon '24

SPATRA participated in Railicon '24, presenting our satellite-based transport solutions to industry professionals. This engagement helped us gather valuable feedback and showcase our commitment to improving transport monitoring through innovative technologies.

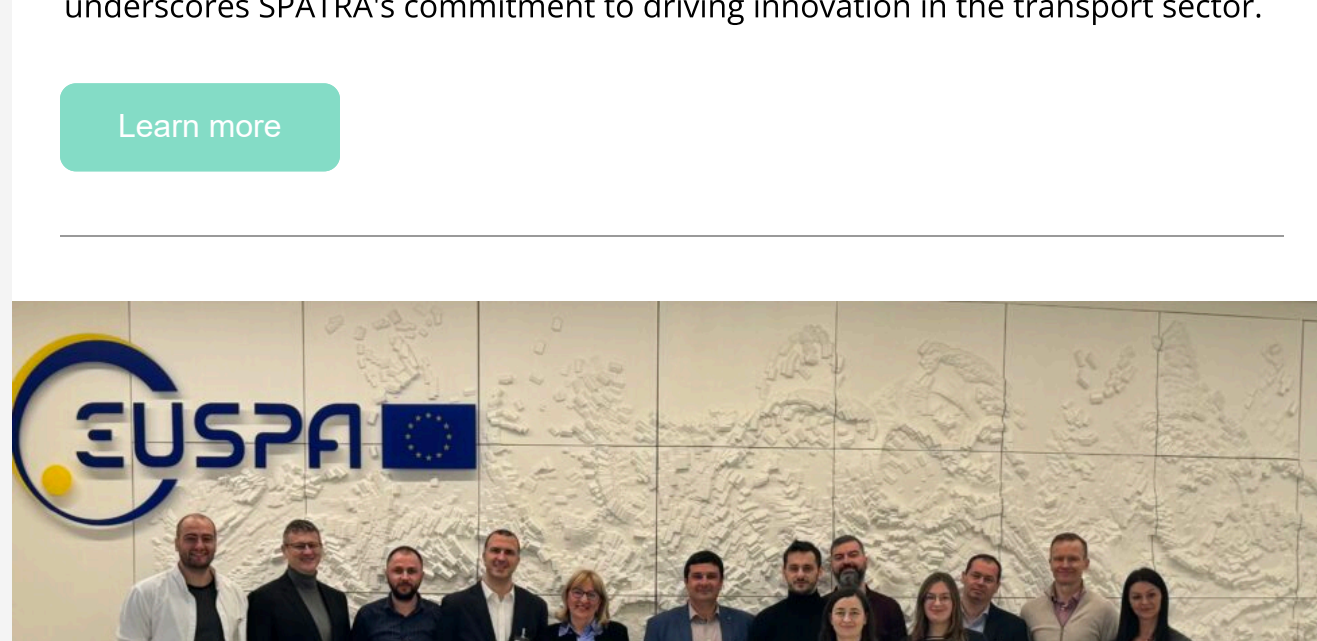
[Learn more](#)



### Press Release: SPATRA Project Embarks on Transforming European Transport with Advanced Space Technologies

The SPATRA project has officially launched, aiming to reshape European transport using advanced space-based technologies. By integrating satellite data from EGNSS and Copernicus, the project seeks to enhance transport monitoring and management while supporting sustainable logistics. This ambitious initiative underscores SPATRA's commitment to driving innovation in the transport sector.

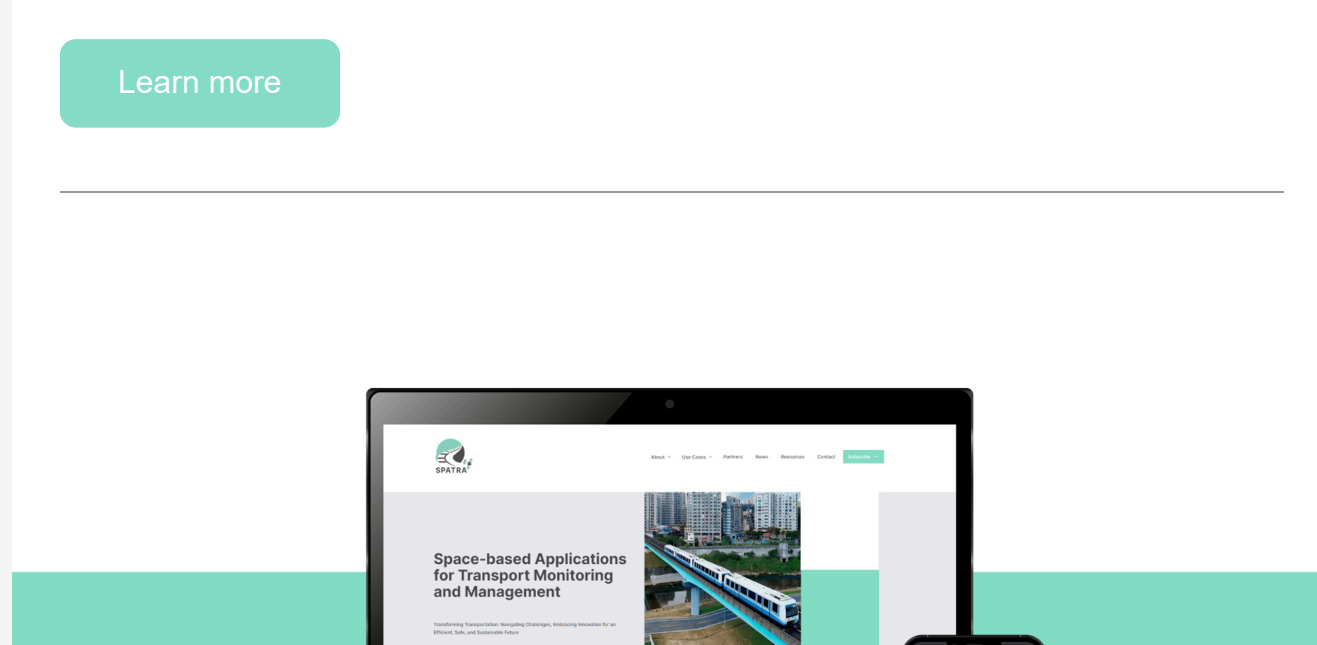
[Learn more](#)



### SPATRA Kicks Off with a Strong Start in Prague

The official SPATRA project launch took place in Prague, where partners gathered to align on project goals and share their expertise. This collaborative meeting laid a solid foundation for advancing our mission of modernizing European transport through space-based technology.

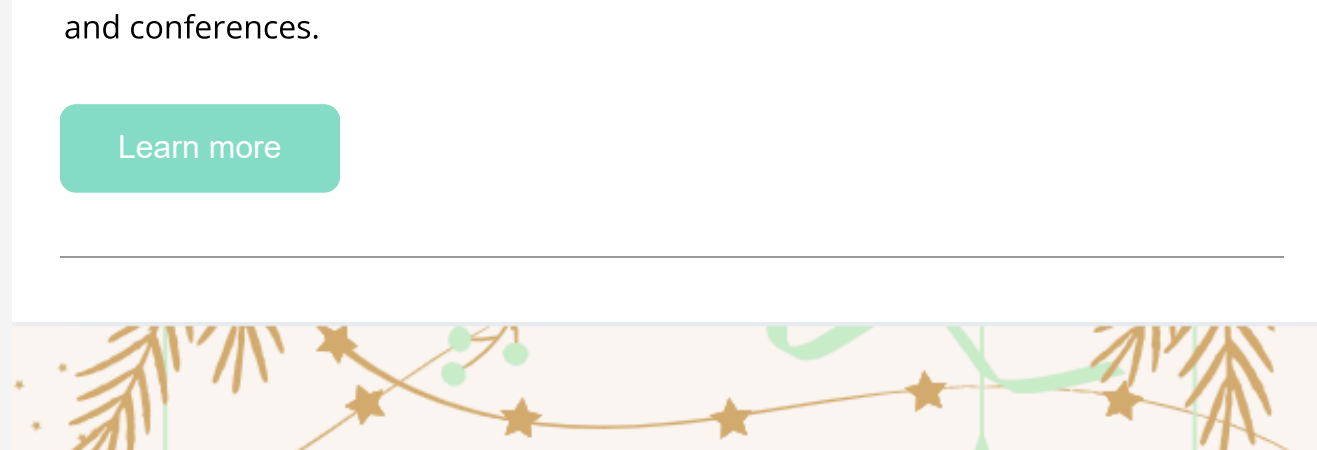
[Learn more](#)



### SPATRA Project Website Launch

The SPATRA project website is now live, serving as a central hub for all project-related updates, events, and detailed information about our goals and achievements. Visitors can explore sections dedicated to our use cases, partner profiles, and the latest news. The site also provides insights into our workshops and conferences.

[Learn more](#)

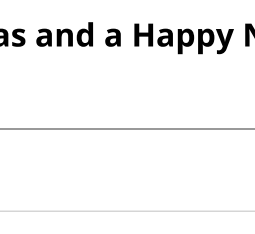


### Season's Greetings from the SPATRA Project Team!

As the year comes to a close, we would like to extend our heartfelt gratitude to all our partners, collaborators, and supporters who have contributed to the success of the SPATRA project.

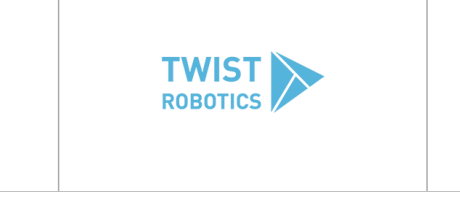
May this holiday season bring joy, peace, and prosperity to you and your loved ones. We look forward to continuing our journey together in the coming year, driving innovation and making great strides toward achieving our shared goals.

**Wishing you a Merry Christmas and a Happy New Year!**



**STAY TUNED!**

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



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