

EGNSS ENABLED STANDARDIZED EUROPEAN ROAD CONDITION MONITORING AND DISTRIBUTION (ESERCOM-D)



Road wear stands as a pervasive challenge and a significant financial burden in infrastructure upkeep. Detecting and mapping road wear early and in detail can alleviate these costs and simultaneously extend the lifespan of road surfaces.

The project team successfully finalised the EGNSS-project ESRIUM (TRL 6) in November 2023, identified necessary technological and standardisation steps for entering into the market and targets this tender as an optimal window-of-opportunity for doing so. The overall objective of ESERCOM-D is to facilitate standardization efforts through the implementation of a demonstrable service (TRL 8), which fosters greener and smarter road usage, optimizes road maintenance, and increases road safety. In doing so, the automation of the complete chain from road condition monitoring to smart decision making will be demonstrated. Moreover, the project seeks to establish, contact and create liaison with key standardization bodies and expand the utilization of EGNSS in the road and automotive industry. The goals emphasize the importance of aligning developments with international industry-accepted certification and standardization schemes. Through comprehensive testing and validation in real-life environments, ESERCOM-D aims to provide proof of concept demonstrators for standardization concepts, ensuring the sustainable impact and widespread acceptance of its outcomes. The project's commitment to transparency, user acceptance assessment, and fostering sustainable impact underscores its excellence in addressing current challenges and pushing the boundaries of the state of the art in road wear assessment and maintenance.

The Logistikum team is responsible for all ethics-related issues, the standardisation gap-analysis and the impact assessment of the project (WP-lead) results.

Research programme

HORIZON Innovation Action,
HORIZON-EUSPA-2023-SPACE-01-42

Duration

10/2024 – 09/2027

Total project budget

ca. € 2.500.000,-

Project partner

Joanneum Research Forschungsgesellschaft mbH
ASFINAG Maut Service GmbH
Evolit Consulting GmbH
Finnish Geospatial Research Institute (FGI) of the National
Land Survey (NLS) of Finland
Fundació Enide per a la Recerca i l'Economia del Coneixement
Kompetenzzentrum - Das Virtuelle Fahrzeug Forschungsgesellschaft mbH (ViF)
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