Next generation solutions for road infrastructure in H2020

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H2020 Projects

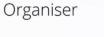






















ESRIUM regularly captures the status of the road surface through a sensors, cameras and EGNSS-based localisation devices to send them to the platform operator.

The data platform operator extracts relevant information from the raw data, integrates it into the digital map and automatically generates safety warnings.

Road operators can communicate route recommendations to CAV drivers and truck fleet operators to better manage traffic and avoid safety risks, while optimising road maintenance planning.

Our team



















Technical Challenge

Cost Efficient Data Acquisition

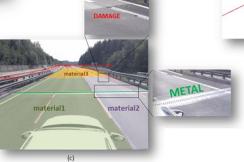


Lane Data Capture

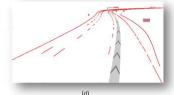




Detection of Damages and Changes



Communication of Driving Recommendations for Automated Vehicles



Reduced Road Wear



Optimized Maintenance







GAMMS: robots mapping for robots

Galileo / GNSS-based Autonomous Mobile Mapping System

- GAMMS is a Horizon2020 project enabling the exploitation of space data for surveying and mapping.
- Our objective is to develop an autonomous terrestrial mobile mapping system (AMMS), based on the tight integration of autonomous vehicle (AV), navigation/geodetic, and artificial intelligence (AI) technologies. We are developing:
 - a mapping robot for geodata acquisition
 - an Al-based highly automated mapping software to produce HD maps from the MMS remote sensing data



















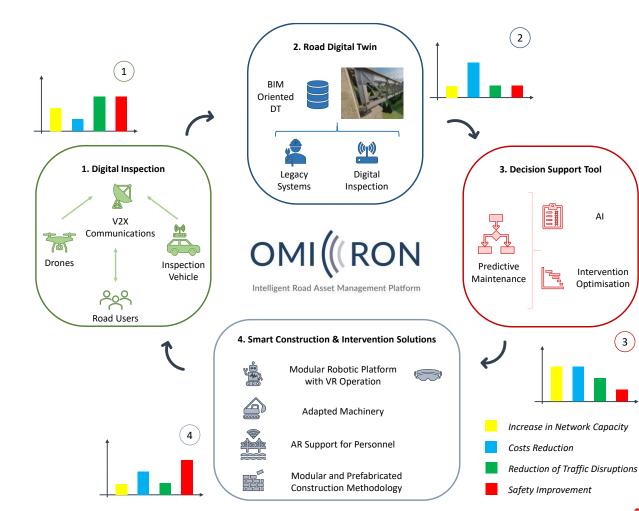












OMICRON

Intelligent Road Asset Management Platform



Road Digital Twin

- BIM-GIS oriented road digital representation.
- Integration of road information and analytics.



Road Decision Support Tool

- Assessment of road condition state.
- Optimisation of road maintenance actions.















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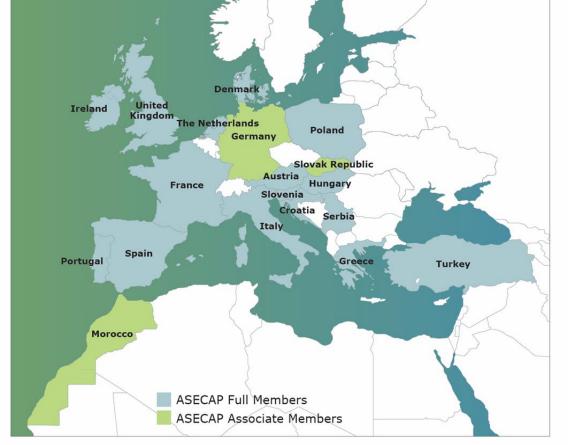




European Association of Operators of Toll Road Infrastructures, whose members' networks today span more than 86,000 km of motorways, bridges and tunnels across 20 member countries.

ASECAP's purpose is to defend and develop the system of motorways and road infrastructures in Europe applying tolls as a means to ensure the financing of their construction, maintenance and operation.







ASECAP believes that technology improves road maintenance and allows to maintain it at a lower cost and more sustainable thanks to its predictive capacities.

- Road damage prediction system and digitalization help:
 - to calculate and display probabilities of road damages and their prioritisation
 - to identify objects, classify them according to the degree of damage and save them in a database.
 - to control repairs and document actual/target analysis comparisons.
 - to distribute vehicles based on the road status.



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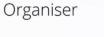
















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