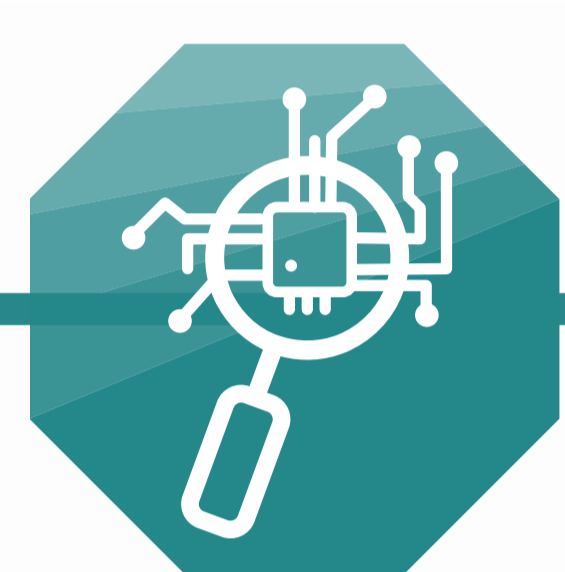
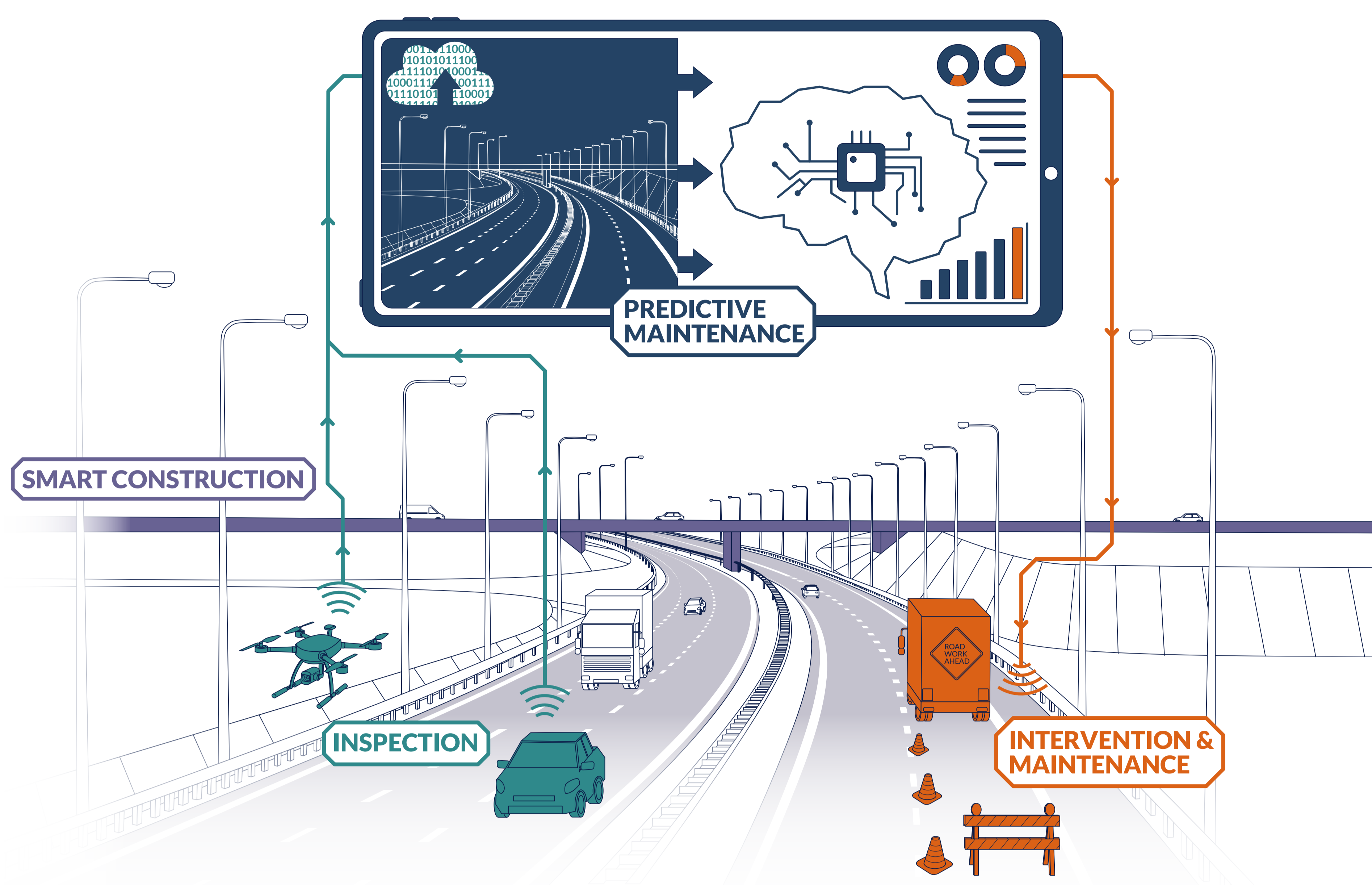


OMICRON

Intelligent Road Asset Management Platform

Imagine a world where roads are always in exquisite condition, maintenance works are quick and efficient, driving is safe and uninterrupted, and all of this is achieved by robots and digital twins! This is exactly what the OMICRON partners have envisaged but to accomplish it, we need technologies that are quick, efficient, safe and reliable.



DIGITAL INSPECTION TECHNOLOGIES

OMICRON develops an array of robotic solutions with drones and automatic inspection vehicles to make road inspections safer for workers and faster for users.



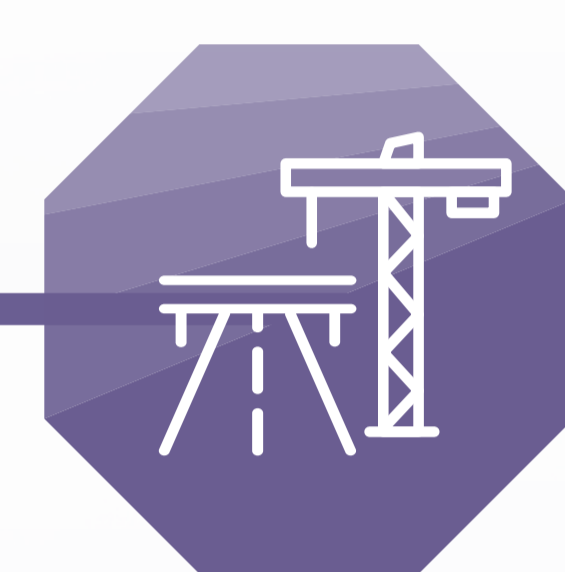
PREDICTIVE MAINTENANCE

A Road Digital Twin is built from the information captured by inspection technologies and IoT devices. The Decision Support Tool, aided by AI, optimises the management of road intervention actions.



SMART INTERVENTION AND MAINTENANCE

OMICRON uses robotic, automation and digitalisation technologies to enhance road maintenance works. This area of the project develops and demonstrates various technologies.



SMART CONSTRUCTION

OMICRON develops pre-manufactured structural components and connections for road and bridge construction as well as automation technologies to support the process.

Expected Impacts



Increase safety in road intervention actions for road users and personnel



More efficient road intervention processes and reduction of traffic disruptions



Overall reduction of maintenance costs



Increase in road network capacity

16

Project partners

7

European countries

5

Demonstration cases



Follow our journey!



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