

OLD ROADS, NEW TECHNOLOGIES

safe and intelligent road asset management

Final event from EU projects

OMI((RON 

in collaboration with

 Heron

Roads are the lifeblood of today's society and economy—for daily commuting, weekend getaways and the smooth transport of goods. But Europe's roads are old. To safeguard their future by monitoring and maintaining their condition in ways that support public and road-worker safety, the EU-funded projects OMICRON and InfraROB have developed various intelligent road asset management solutions. These will be showcased in a one-day, free-of-charge conference. We welcome representatives of transport authorities, road operators, construction companies, engineering and material supplier companies, research entities, associations, policymakers, media, and anyone interested in finding out more.

COME AND JOIN US!

16/01/2025 | 09:00–18:00 CET | Colegio de Ingenieros de CCP | Madrid, Spain

#SmartRoads

Old Roads, New Technologies

This collaborative event 'Old Roads, New Technologies: safe and intelligent road asset management' will explore five key themes:

- **Digital inspection technologies**
- **Smart construction**
- **Predictive maintenance**
- **Smart intervention**
- **Safe intervention**

Organised by EU-funded 'sister-projects' OMICRON and InfraROB, the event will also feature HERON project, highlighting mutual areas of focus, results and benefits. Partners and guests will discuss developments, bigger-picture challenges and next steps for Europe's roads.

Why take part?

'Old Roads, New Technologies' will be the final event of the OMICRON and InfraROB projects. The day will include opportunities to:

- **network with experts** from the projects and audience, all kinds of players in Europe's road sectors and value chains;
- **get direct information and follow-up** on solutions presented in sessions & exhibits;
- **contribute your views** and help set the agenda for future collaboration and developments in the relevant sectors;
- **experience the historic heart of Madrid venue**, the College of Engineers for Roads, Canals and Ports.

REGISTER NOW!

Free of charge | Face-to-face | Limited space available | Register by 9/1/2025

*For registration, up-to-date information,
the agenda & any queries, scan the QR code.*



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Final AGENDA

08:30-09:00 Arrival & on-site registration

09:00-09:25	Welcome & Introduction Event Host: Noemi Jiménez Redondo, CEMOSA
Setting the scene Noemi Jiménez Redondo, CEMOSA	
Introducing InfraROB & OMICRON Pedro Arias-Sánchez, University of Vigo & José Solís Hernández, CEMOSA	
Roads - the EU and research perspective Claudia Ciuca, CINEA	
Roads - the Spanish perspective Alejandro Lanuza, Spanish Road Directorate, Ministry of Transport (DGC)	
09:25-09:50	SESSION 1 - Smart Construction Moderator: Carlos Martín-Portugués Montoliú, ACCIONA Construcción (HERON)
All-in-one multifunctional pre-cast concrete element Edoardo Segú, Nuova Tesi System (InfraROB)	
Modular hybrid bridges Rita Moura, Teixeira Duarte (OMICRON)	
09:50-10:35	SESSION 2 - Digital Inspection and Monitoring Technologies Moderator: Fabrizio Federici, AISCAT (OMICRON)
UAV inspection of roads and critical assets Anibal Ollero, University of Seville & Javier Curado, CATEC (OMICRON)	
PointPix pavement inspection system Hamidreza Alavi, University of Cambridge (OMICRON)	
Fibre-optic sensors Celina Solari, RINA Consulting (InfraROB)	

10:35-11:05 Coffee Break

11:05-12:15	SESSION 3 - Predictive maintenance Moderator: Federico di Gennaro, Autostrade per l'Italia (OMICRON)
Pavement management system José C. Matos, University of Minho (InfraROB)	
Digital Twin & BIM applications Saimir Osmani, RINA Consulting (InfraROB)	
Data Collection and Management from multiple data sources for PMS feeding David Lago, Ingeniería Insitu (InfraROB)	
OMICRON's Digital Twin Balázs Némedi, Régens & Nuria García de Villa, Prointec / Indra (OMICRON)	
CEMBOX Digital Twin & decision support tool: bridges; pavements Paula López & Israel Hernández, CEMOSA (OMICRON)	
Decision support system: maintenance; planning Muhammad Tabish Bilal, University of Genoa (OMICRON)	
12:15-12:45	PANEL: From smart construction to predictive maintenance Moderator: Jia Liu, TU Darmstadt (InfraROB)
PANELLISTS	Nikos Bakalos, ICCS (HERON) Javier Prego, Extraco Anibal Ollero, University of Seville (OMICRON)
12:45-12:50	Exhibition teaser – what to see during the lunch break

12:50-14:20 Networking lunch & exhibition

14:20-15:25	SESSION 5 - Smart intervention Moderator: Christoph Antony, ASFINAG (InfraROB)
Autonomous interventions: paver Leandro Harries, TU Darmstadt & Torsten Schönbach, MOBA Mobile Automation (InfraROB)	
Autonomous interventions: robots for line painting, crack & pothole repair Søren Ingwersen, Tiny Mobile Robots & Paola Di Mascio, AIPSS (InfraROB)	
Smart intervention: VR & AR-supported robotic platform actions Ander Ansuategi, Tekniker; José Ramon López Pavasal & Themis Anastasiou, LMS University of Patras (OMICRON)	
Smart intervention: pavement rehabilitation & maintenance decision support tool Miguel Aragón, Eiffage (OMICRON)	
15:25-16:05	SESSION 6 – Safe intervention Moderator: António Costa, University of Minho (InfraROB)
Safe intervention: remotely piloted safety cones & aircraft system Joaquín Martínez, University of Vigo (InfraROB)	
V2X communications and road safety Martín Rivas, Indra (OMICRON)	
Safe intervention: traffic management systems & V2X Rade Hajdin, Infrastructure Management Consultants & Leonard Hoffmann, ASFINAG (InfraROB)	

16:05-16:35 Coffee Break

16:35-17:25	PANEL: Future of safe and intelligent road management Moderator: Jesús Rodríguez, Chair, OMICRON External Advisory Board
PANELLISTS	Claudia Ciuca, CINEA Rade Hajdin, IMC (InfraROB) Federico di Gennaro, Autostrade per l'Italia (OMICRON)
	Alejandro Lanuza, DGC Christian Honeger, ASFINAG (InfraROB) Yannis Handanos, Olympia ODOS Operation (HERON)
17:25-17:35	Closing remarks Pedro Arias-Sánchez, InfraROB & José Solís Hernández, OMICRON

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