

# 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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## Preliminary AGENDA

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

09:00-09:25	Welcome & Introduction   Event Host – Noemi Jimenez Redondo, CEMOSA
	<ul style="list-style-type: none"><li>Setting the scene   Noemi Jiménez Redondo, CEMOSA</li><li>Introducing InfraROB &amp; OMICRON   Pedro Arias Sánchez, University of Vigo &amp; José Solís Hernández, CEMOSA</li><li>Roads - the EU and research perspective   European Commission representative (TBC)</li><li>Roads - the Spanish perspective   Ministerio de Transportes y Movilidad Sostenible representative (TBC)</li></ul>
09:25-09:50	SESSION 1 - Smart Construction   Moderator – TBC
	<ul style="list-style-type: none"><li>All-in-one multifunctional pre-cast concrete element   Edoardo Segú, Nuova Tesi System (InfraROB)</li><li>Modular hybrid bridges   Rita Moura, Teixeira Duarte (OMICRON)</li></ul>
09:50-10:35	SESSION 2 - Digital Inspection and Monitoring Technologies   Moderator – TBC
	<ul style="list-style-type: none"><li>UAV inspection of roads and critical assets   TBC, University of Seville / CATEC (OMICRON)</li><li>PointPix pavement inspection system   TBC, University of Cambridge (OMICRON)</li><li>Fibre-optic sensors   TBC, RINA Consulting S.p.A (InfraROB)</li></ul>

### 10:35-11:05 Coffee Break

11:05-12:15	SESSION 3 – Predictive maintenance   Moderator – TBC
	<ul style="list-style-type: none"><li>Pavement management system   José C. Matos, University of Minho (InfraROB)</li><li>Digital Twin &amp; BIM applications   TBC, RINA Consulting (InfraROB)</li><li>Data Collection and Management from multiple data sources for PMS feeding   David Lago, Ingeniería Insitu (InfraROB)</li><li>OMICRON's Digital Twin   TBC (OMICRON)</li><li>CEMBOX Digital Twin &amp; decision support tool: bridges; pavements   Paula López, CEMOSA (OMICRON)</li><li>Decision support system: maintenance; planning   Alice Consilvio, University of Genova (OMICRON)</li></ul>
12:15-12:45	SESSION 4 – Panel: From smart construction to predictive maintenance   Moderator – TBC
PANELLISTS	
	<ul style="list-style-type: none"><li>(TBC)</li></ul>
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 – TBC
	<ul style="list-style-type: none"><li>Autonomous interventions: paver   Leandro Harries, Technical University of Darmstadt &amp; Torsten Schönbach, MOBA Mobile Automation (InfraROB)</li><li>Autonomous interventions: robots for line painting, crack &amp; pothole repair   Søren Ingwersen, Tiny Mobile Robots &amp; Carlo Polidori, AIPSS (InfraROB)</li><li>Smart intervention: VR &amp; AR-supported robotic platform actions   Ander Ansuategi, Tekniker; José Ramon, López Pavalas &amp; Themis Anastasiou, LMS (OMICRON)</li><li>Smart intervention: pavement rehabilitation &amp; maintenance decision support tool   Rafael Martínez Moriano, Eiffage (OMICRON)</li></ul>
15:25-16:05	SESSION 6 – Safe intervention   Moderator – TBC
	<ul style="list-style-type: none"><li>Safe intervention: remotely piloted safety cones &amp; aircraft system   Joaquín Martínez, University of Vigo (InfraROB)</li><li>V2X communications and road safety   Martín Rivas, Indra (OMICRON)</li><li>Safe intervention: traffic management systems &amp; V2X   Rade Hajdin, Infrastructure Management Consultants &amp; Leonard Hoffmann, ASFINAG (InfraROB)</li></ul>

### 16:05-16:35 Coffee Break

16:35-17:25	SESSION 7 – Panel: Future of safe and intelligent road management   Moderator – TBC
PANELLISTS	
	<ul style="list-style-type: none"><li>(TBC)</li></ul>
17:25-17:35	Closing remarks   Pedro Arias-Sánchez, InfraROB & José Solís Hernández, OMICRON

[omicronproject.eu/final-event](https://omicronproject.eu/final-event)

[infrarobproject.com/final\\_event](https://infrarobproject.com/final_event)



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