

# 4<sup>th</sup> INTERNATIONAL CONFERENCE ON ASPHALT 4.0

Asefma and ZAS, in collaboration with  
EAPA, are pleased to invite you to the  
fourth “International Conference  
on Asphalt 4.0”

P R O G R A M M E

**Madrid | 24 - 25 SEPTEMBER | 2025** | Meeting Place: c/ Orense, 34

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## Latest digital trends in the asphalt paving sector



The Spanish Asphalt Pavement Association (Asefma), in collaboration with the Slovenian Asphalt Pavement Association (ZAS) and with the support of EAPA, is pleased to announce the 4th International Conference on Asphalt 4.0 (ICA 4.0), which will be held at the Business Center Meeting Place in Madrid, see <https://ica4point0.com>

The fourth edition of the International Conference on Asphalt 4.0 will take place on September 24 and 25 2025 in Madrid. It will be held in-person, digitally and virtually, in a PDV format, as in previous editions.

This edition will feature a monograph developed by Asefma, offering an overview of the current state of digitalization in Spain's asphalt paving sector, illustrated with specific examples. A similar document from EAPA, which is practically finalized, will also be presented. This is therefore an excellent opportunity to learn firsthand which programme, companies and technologies are driving this major change, digitalization, in the asphalt paving sector.

The technical programme has been structured around seven sessions that will review a series of stages of maximum interest: the impact of digitalization on decarbonization, the consequences of Asphalt 4.0 on the productivity of asphalt paving, the development of digital platforms for road administrations, the consequences for the durability of pavements, the digitalization for monitoring the state of maintenance of roads, etc. Many of these sessions will feature a debate or round table, open to the public, in which a series of specialists will participate.



In addition, as in previous editions, a series of open-access presentations will be presented in a special session or as part of selected sessions. This will provide an insight into the level of development, experiences gained, and the latest innovations.

The Asphalt 4.0 Conference will not only cover asphalt-specific topics, but also broader subjects related to asphalt roads and transport infrastructure. These include E-mobility, Intelligent Transport Systems (ITS), and cutting-edge technologies such as Blockchain, Digital Twins, Artificial Intelligence (AI), and more.

Recognizing the value of corporate participation, we are offering two sponsorship options: Major Sponsor and Sponsor. Both sponsorship packages include a variety of benefits, see <https://ica4point0.com>

## Topics:

- *The impact of digitalization on decarbonization*
- *The consequences of Asphalt 4.0 on the productivity of bituminous mixtures and paving*
- *The development of digital platforms for road administrations*
- *The consequences for the durability of pavements*
- *Digitalization for monitoring the state of maintenance of roads*
- *New technologies for quality control*
- *Monographs on Asphalt 4.0*

**Juan José Potti |**

Executive President Asefma

**Slovenko Henigman |**

President ZAS

## Wednesday, 24<sup>th</sup>

08.30 h **Registration**

09.00 h **Opening session**

**Carsten Karcher** | Secretary General of EAPA

**Slovenko Henigman** | Executive President of ZAS

**Juan José Potti** | Executive President of Asefma

09.30 h **Key lecture “Challenges for Asphalt 4.0”**

**Breixo Gómez** | Technical Manager of EAPA

### SESSION 1

#### *The impact of digitalization on decarbonization*

Moderated by **Carsten Karcher**



09.50 h **Key digital elements for decarbonization based on Life Cycle Analysis**

**José Luis Peña** | Asefma

10.10 h **Optimization and logistic of transport impacts on paving**

**José Ramón Albert** | Pavasal

10.30 h **Round table on Decarbonisation through digitalization**

Composed of **Carsten Karcher**, **José Ramón Albert**, **José Luis Peña** and **Breixo Gómez**

11.00 h **COFFEE BREAK**



### SESSION 2

#### *Digitalization for monitoring the state of maintenance of roads*

Moderated by **Juan José Potti**



11.45 h **Quantifying the environmental impact of pavement rehabilitation using connected vehicle data: a case study on the M-50 motorway**

**Camino Arce**, **David Llopis** and **José Carlos Valdecantos** | SEITT, UPV and Xouba

## • September 2025 •

12.05 h ***Methodology and Results of the Study on Investment Needs for the Conservation of the Spanish Road Network***

**Enrique Miralles** and **Ibon Arechalde** | AEC and Asimob

12.25 h ***Round table on Digitalization for monitoring***

Composed of **Camino Arce**, **José Carlos Valdecantos**,  
**Enrique Miralles** and **Ibon Arechalde**

13.00 h LUNCH



### SESSION 3

***The consequences of Asphalt 4.0 on the productivity of bituminous mixtures and paving***

Moderated by **Slovenko Henigman**



14.15 h ***Big data analytics and AI for a more efficient and sustainable asphalt Industry***

**Alex van de Wall** | KWS

14.35 h ***Digital management and new technology based on RAP density. Classification for recycling asphalt for more efficient utilization***

**Adrián Cabrera** and **Thomas Leopoldseder** | Asfalto 0.0 and Q Point

14.55 h ***Round table on Asphalt 4.0 and productivity***

Composed of **Alex van de Wall**, **Adrián Cabrera**  
and **Thomas Leopoldseder**

### SESSION 4

***The development of digital platforms for road administrations***

Moderated by **Miguel Caso**



15.30 h ***Towards digital pavement management***

**Imanol García** | DGC of the Spanish Ministry of Transports

15.50 h ***Digital Twins applied to paving activities***

**Carlos Real** | University of Cantabria

16.10 h ***The Future of Pavement Management: Systematic decisions with Unified Data, 360° Imagery & AI***

**Xavier Esgleas** | Parma Ingeniería

16.30 h ***Round table on BIM applied to the roads***

Composed of **Imanol García**, **Xavier Esgleas** and **Fernando Varela**

Thursday, 25<sup>th</sup>

SESSION 5

*The consequences for the durability of pavements*

Moderated by **Ralf Pomp**



09.00 h *Key digital points to improve durability of pavements*

**Fernando Moreno** | UGR

09.20 h *Digital developments to achieve target compaction*

**Thiberio Tanus** | Dynapac

09.40 h *Round table on Durability*

Composed of **Fernando Moreno, Thiberio Tanus**

10.10 h COFFEE BREAK



SESSION 6

*New technologies for quality control*

Moderated by **José Luis Peña**



11.00 h *Bridging the gap: expectations and conflicts between contracting authorities and suppliers in the digital era*

**Ersun Görener** | Infratest

11.20 h *Mobile mapping*

**José Manuel Muñoz** | Topcon

11.40 h *Novel non-destructive techniques using image analysis for the study and characterisation of asphalt mixtures*

**Lorena Palomo, José Simón, Gloria Motos**  
and **Víctor García** | CHM and CTCN



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SESSION 7

*Monographs on Asphalt 4.0*

Moderated by **Slovenko Henigman**



12.10 h

*Monograph Asphalt 4.0 by Asefma*

**Juan José Potti** | Asefma

12.30 h

*Monograph Asphalt 4.0 by EAPA*

**Breixo Gómez** | EAPA

12.50 h

*Digitalization and Young Paving Talent initiatives*

**Aida Marzá** | Member of the Directing Committee of Young Paving Talent Spain

13.10 h

*Closing session*

**Ralf Pomp** | President of EAPA

**Slovenko Henigman** | Executive President of ZAS

**Juan José Potti** | Executive President of Asefma



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## Notes



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Live streaming registration on [itapec.com](https://itapec.com)

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