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# KONFERENZPROGRAMM

Mitgliedschaft

## ANMELDUNG FÜR III. INTERNATIONALE KONFERENZ ASPHALT 4.0

### PROGRAMM

**ICA4.0** INTERNATIONAL CONFERENCE ON ASPHALT 4.0

#ICA4point0

ZAS and Asefma in collaboration with EAPA, are pleased **to invite** you to the

**III. INTERNATIONAL CONFERENCE ON ASPHALT 4.0**

**LJUBLJANA • SLOVENIA**  
**24 – 25 SEPTEMBER 2024**

INVITATION

Draft Program

Organised by  
**ZAS**  
**asefma**

Supported by  
**EAPA**

[www.zdruzenje-zas.si](http://www.zdruzenje-zas.si)  
[www.ica4point0.com](http://www.ica4point0.com)



## Dobrodošli v Ljubljani Welcome to the ICA 4.0

**Transportation infrastructure** is essential for ensuring the safe and efficient movement of vehicles and people within a given area. In addition to the physical infrastructure itself, it also involves traffic organization, including relevant legislation and trained personnel.

**Asphalt** is the primary construction material used in transportation infrastructure - from roads and airports to ports and railways. For decades, it has provided safe, comfortable, and dust-free traffic conditions. Moreover, asphalt is an excellent example of a circular economy, as it can be fully reused while maintaining high energy value.

With the rise of the new industrial revolution and the development of technologies such as intelligent transport systems, e-mobility, blockchain, digital twins, and artificial intelligence, the connection between vehicles and transportation infrastructure is becoming increasingly important. Asphalt, which forms the upper layers of road structures, is a key element in this connection. It can serve as an energy storage medium, a platform for communication links, or a foundation for advanced traffic signalling.

When we combine **infrastructure, vehicles, and users**, we create a powerful synergy for digital transformation in transportation. The asphalt industry is already one of the most digitalised sector in construction, making the future development toward digital transformation an integral part of the **ASPHALT 4.0** concept, which is also the central theme of the **ICA 4.0** International Conference.

In 2022 and 2023, the Spanish Asphalt Association ASEFMA, in collaboration with the Slovenian Asphalt Pavement Association ZAS and with the support of the European Asphalt Pavement Association EAPA, hosted the first and second ICA 4.0 International Conferences in Madrid. We are pleased to announce that the third conference will take place in **September 2024 in Ljubljana**. The strong interest from companies and experts shows that this type of conference provides important opportunities for presenting and implementing new technologies, where we will strive for even greater efficiency in Europe and the practical application of new ideas.







Industry representatives, administration officials, academic institutions, and universities, we warmly welcome you to Ljubljana!

Sloenko Henigman  
President of ZAS, Slovenian Asphalt Pavement Association









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**25**  
professional papers  
from **8**  
different countries

## PROGRAM

9:00 – 10:00 OPENING SESSION			
ZAS			<b>SLOVENKO HENIGMAN</b> , President of ZAS, Slovenian Asphalt Pavement Association
ASEFMA			<b>JUAN JOSÉ POTTI</b> , President of ASEFMA, Spanish Asphalt Pavement Association
EAPA			<b>RALF POMP</b> , President of EAPA, European Asphalt Pavement Association
MzI			<b>ANDREJ RAJH</b> , State Secretary at Ministry for Infrastructure
MTMS			<b>IMANOL GARCÍA</b> , Innovation Expert at the Ministry of Transport and Sustainable Mobility of Spain Implementation of Sustainable Pavement Solutions within the Spanish National Road Administration

10:00 – 10:15 ☕ Break

I. Intelligent Transport System (C-ITS) & Cooperative, Connected and Automated Mobility (CCAM) 10:15 – 11:15 Moderator: Ulrich Zorin			
DARS			Ulrich Zorin Motorway of the Future
SIMETRIA GROUP			Aida Marzá Beltrán Review of the Application of New Technologies for Road Pavement Condition Monitoring
XOUBA Spain			Miguel A. Muñoz Continuous Road Network Monitoring Using Connected Vehicle Data
FEHRL			Thierry Goger AUGMENTED CCAM project. Augmenting and Evaluating the Physical and Digital Infrastructure for CCAM Deployment

11:15 – 11:45 ☕ Break

**II.**

**Project Design, Digital Twins and Digitalization (Artificial Intelligence)**

🕒 11:45 – 13:15

Moderator: Juan José Potti

<b>INFRAEST</b>			Ersun Görener	Digitalization in Asphalt Road Construction. Special Features, Possibilities, Limitations
<b>&amp;nbsp; Partner in solution</b>			Natascha Poeran	A Fundamental Framework for Data-driven, functional Validation of Pavement Performance
<b>DARS</b>			Jaka Gorišek	Digitalisation of DARS Road Infrastructure
<b>Q POINT GROUP</b>			Thomas Leopoldseder	Efficient Asphalt Production through Digital Order, Production, and Delivery Management and the (Multi-) plant Analysis of Process Data from the Plant Control System
<b>&amp;nbsp; Partner in solution</b>			Berwich Sluer	Ontologies, the Beating Heart of Common Data Platforms

13:15 – 14:30 🍴 Lunch

🕒 14:30 – 15:00

**INVITED LECTURE**

			<b>ROBERTO NUÑEZ DEL RÍO</b> Digitalisation Management and Users Experience	
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**III.**

**Technology Suppliers, Market Uptake and Quality control for Innovative Products**

🕒 15:00 – 16:30

Moderator: Slovenko Henigman

<b>IGMAT</b>			Roman Bašelj	Transport of Low Temperature Asphalt with Push-Off System
<b>TRGOGRAD</b>			Klemen Šobak	
<b>STRABAG</b>			Márton Hittner	Logistics Control System for Digital Road Construction







<b>III.</b>	<b>IGMAT</b>			Grega Sever	IQS - Igmata Quality System
	<b>INTERCHEM</b>			Stephan Harnischfeger	Warm Mix Asphalt with Synthetic Zeolite
	<b>PETROL</b>			Bojan Kurež	Barje - the Largest and most Modern Petrol's Station

🕒 17:45 > Departure on a guided tour to Petrol Station Barje Sever and to the National Traffic Management Centre Dragomelj

**WEDNESDAY 25 September 2024**

<b>IV.</b>	<b>Asset Management System and Environment Standards</b>				
	🕒 9:00 – 10:15	Moderator: Breixo Gomez Meijide			
	<b>EAPA</b>			Breixo Gomez Meijide	Towards Net zero
	<b>ZAG</b>			Rok Vežočnik	Surface-wise Road Geometry Assessment Using Terrestrial Laser Scanning
	<b>XOUBA Spain</b>			Miguel A. Muñoz	Assessing the Impact of Road Roughness Improvements on Emissions and Fuel Consumption Using Connected Vehicle Data
	<b>ZAG</b>			Maja Kreslin <a href="#">[photo]</a> , Andrej Anžlin	Development of Digital Bridge Inspection
	<b>CESTEL</b>			Martin Hauptman <a href="#">[photo]</a> , Matija Mavrič	Distribution of Axle Loads Across Road Networks: a Case Study of Slovenia

10:15 – 10:30 ☕ Short Break

🕒 10:30 – 11:30

**WORKSHOP – PRACTICAL EXPERIENCE WITH:  
PADECASA, XOUBA Spain, QPOINT and DARS**

Moderator: Breixo Gomez Meijide

11:30 – 12:15 ☕ Long Break