



4-7 JUNE

BARCELONA 2023

**GLOBAL PUBLIC
TRANSPORT SUMMIT**

MOVING OUR SECTOR FORWARD WITH AUTOMATED VEHICLE TECHNOLOGY

INNOVATION GUIDED TOURS

Monday 5 June, 14:00 - 15:00

Automated mobility is one of the biggest game-changers in the sector today. When integrated into the public transport network, automated vehicles (AVs) can help to achieve a more efficient, accessible and safer service. This tour

will showcase road vehicles with different levels of automated driving, as well as the enabling technologies essential for their integration into the transport ecosystem.



AutonomyNow™

ZF Group

Next-generation autonomous Level 4 shuttle

The ZF Autonomous Transport System (ATS) is not a vision of the future. Our driverless, fully electric shuttles offer a clean, safe & efficient MaaS solution for public transport, that is ready to be used today. The system flexibility ensures integration into both urban or rural areas and augments existing public transport systems. The next-generation shuttle can operate 24/7 in mixed traffic and is equipped with the industry leading ZF autonomous driving system. All ZF components and systems are automotive grade and certified, meeting the high safety and quality requirements of the automotive industry and include the associated cyber security standards.

Your partner on the way to success

What makes us so special? We don't just offer an automotive-grade Autonomous Level 4 shuttle, we offer the complete system. This includes advice on the required infrastructure, charging strategy, fleet management and service.



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Irizar e-mobility

Irizar e-mobility automated vehicles projects

We are currently actively involved in major European projects for the future electrification of cities and public passenger transport. This international dimension can be seen in projects such as autonomous driving, improvements in energy storage systems, energy efficiency, standardisation of charging systems, connectivity, big data or artificial intelligence, which are basic to the new generation of clean, efficient, fast, intelligent and connected transportation.

This time, we are going to focus the tour in autonomous driving, presenting some of the projects we have working on and showing some examples.



Julen Trojaola
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IVU Traffic Technologies AG

IVU.suite for usage of autonomous and traditional vehicles in one fleet (2023)

Autonomous vehicles enable low-cost traffic but require new skills from operators to deploy these vehicles. Today's public transport providers know the needs of passengers and already operate integrated systems for the use of traditional vehicles with drivers.

How can these systems be upgraded for the use of autonomous vehicles so that this new technology can be seamlessly integrated into existing ITS environments? The IVU.suite is and has been upgraded for this purpose so that transport companies can plan, charge, schedule, dispatch and control autonomous vehicles. With boarding control systems and comprehensive passenger information, this becomes a holistic package for mixed fleets.

We are pleased that this solution is already being used in real life and that we can gather practical experience together with our customers and use it for an even better product.

We look forward to your visit to introduce you to these and other IVU.suite solutions.



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FZI Forschungszentrum Informatik (FZI Research Center for Information Technology)

Control center for automated public transport and smart road infrastructures

The presentation addresses the need for control centers for both automated public transport systems and smart road infrastructures. We start with a brief introduction to the Test Area for Autonomous Driving Baden-Württemberg (TAF BW) which is a smart road infrastructure for testing and operating novel mobility concepts as well as to the FZI shuttles, a fleet of autonomous public transport systems for the last mile of public transport. Based on the different purposes of the systems, we show the potentials of their synergetic interconnection and the requirements for monitoring and supervising functional properties of the systems, such as the position of vehicles and the state of traffic lights, as well as non-functional properties, such as the state and liveliness of components and systems. The proposed control center demonstration covers both areas and enables a deeper technical management and operation of AV fleets and smart road infrastructures.



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AutonomyNow

High-Performance Advanced Driver Assistance System (ADAS) dedicated for the Bus&-Coach industry

We are building the next generation of Autonomous Systems enabling higher levels of safety in the Automotive industry. Our focus is to provide the necessary information in a clear way and improve the Driver's experience by eliminating false positives.

AutonomyNow™ provides a complete solution integrating multiple safety features in one embedded hardware and software system:

- Pedestrian and Cyclist Detection
- Front Collision Warning
- Autonomous Emergency Braking
- Intelligent Speed Assistance
- Driver's Drowsiness and Distraction Warning
- Lane Departure Warning
- Reversing Camera View

Our Systems meet new GSR2 homologation requirements; our Company has been awarded ISO 9001:2015. To date, we have produced over 185 Systems for use in operational conditions by various European OEMs.

Visit us at autonomynow.co

AutonomyNow™

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