

PRESS RELEASE
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EU-FUNDED 5G-MOBIX PROJECT FIRST AUTONOMOUS DRIVING JOURNEY ACROSS THE PORTUGAL SPAIN BORDER WITH NOS 5G

- **First “live” 5G autonomous vehicle journey in Portugal**
- **Vehicle successfully overcame various obstacles on the Valença-Tui International Bridge**
- **5G-MOBIX brought together 58 partners from 13 countries to demonstrate the role of 5G in Automated Connected Mobility**

The first ever live automated and connected mobility journey in Portugal using 5G took place today on the Valença-Tui International Bridge using NOS' 5G. This event marked the conclusion of the European 5G-Mobix project, which has showcased the role of 5G in connected and automated mobility.

During this public demonstration, the autonomous shuttle faced various obstacles, all of which were successfully cleared thanks to 5G connectivity. In a first use case, with the path obstructed, the vehicle asked the Control Centre, where a technician steered the shuttle remotely, using virtual reality goggles. In other case, a pedestrian, located in a blind spot, was detected by a sensor installed on the bridge, which passed on the information to the network and to the shuttle, thus avoiding a collision. All the information was transmitted via NOS 5G network, using Nokia technology, in real time. The network ensured the speed, low latency and reliability of the communications, which are essential for safeguarding the safety and success of the journey.

Jorge Graça, Chief Technology and Information Officer at NOS, stressed that: “Today, we are witnessing a defining moment in preparing the future of Autonomous Driving. We had the opportunity to participate in live demonstrations with real obstacles, something that has never been done in Portugal. And all of this on a cross-border corridor, with challenging connectivity requirements that had to be overcome.”

“This was the conclusion of a long journey that joined various partners and leaves us no doubt that 5G will be essential for Automated Connected Mobility. As far as NOS is concerned, we want to keep leading the way in pioneering moments such as this, opening the path towards a future with a more intelligent mobility, more accessible to everyone, but also enjoying a greater road safety and sustainability”, concluded NOS' Board Director.

The main goal of the EU-funded 5G-MOBIX initiative (2018-2022), part of Horizon 2020, is to set up the basis for the deployment of 5G corridors and give a strong impulse towards the development of opportunities around Connected Autonomous Mobility. The consortium brought together 58 partners from 13 European in the EU, Turkey, and South Korea, among others.

The Portugal-Spain cross-border corridor project connects the cities of Porto and Vigo and its research team covers the complete value chain, from car

manufacturers, telecom operators, to public authorities and research institutions. Together they have explored the challenges of seamless interoperability between multiple operators from different countries

Over the four years of the project, NOS has worked together with Nokia, providing spectrum for the various pilot tests, and was responsible for the design, configuration, and implementation of the 5G network, as well as the connectivity with the Spanish operator's network.

The 5G-MOBIX's insights will be used as a basis for the definition of new regulations and standards at a European level for Automated Connected Mobility, as well as leveraging the development of new business models in relation to this area.

For further information about 5G-MOBIX: <https://www.5g-mobix.com/newsandevents/presskit/5g-mobix-final-event-press-pack>