



Press release

October 31, 2023

5G-Blueprint's Final Showcase Event: see our work on teleoperation in transport and logistics coming together into live demonstrations

The 5G-Blueprint project's consortium is holding a final event at the Industrial Museum Zeeland, in Sas van Gent (The Netherlands), on November 21st, 2023: a half-day featuring demos built around the our key teleoperation use cases, and an occasion for the partners to talk about their work in person.

In the European Research and Innovation project 5G-Blueprint, 26 public-private partners are exploring the use of 5G communication technology to remotely control vehicles and ships for transport and logistics. Reliable 5G connectivity can improve road safety and the efficiency of logistics processes. Moreover, the results of the 5G-Blueprint, when combined with other technologies and functionalities, can be seen as an important 'missing technical piece' of the puzzle for the possible future deployment of more and more autonomous driving and shipping. In the future, it will be possible to divide a fully traveled route into sections where a human remotely controls the vehicle or vessel via teleoperation, and sections where the vehicle or vessel can safely drive or sail autonomously (empty motorway at night, clear waterway, etc.). In the final phase of the project, the 'teleoperation technology' was intensively tested in three different locations: Vlissingen, Antwerp and at the Belgian-Dutch border crossing between Sas van Gent and Zelzate.

The 5G-Blueprint partners are pleased to share the results of this research with you at their final showcase event: [check out the event's agenda and register here!](#)

More on 5G-Blueprint

5G-Blueprint aims to design and validate technical architecture and business and governance models for uninterrupted cross-border teleoperated transport based on 5G connectivity. As such, the project explores and defines:

- The **economics of 5G tools in cross-border transport and logistics**, as well as in **passenger transport**: bringing capital expenditure (CAPEX) and operational expenditure (OPEX) into view, both on the supply (telecom) side and the demand (transport and logistics) side, leading to the transformation of current business practices as well as new value propositions.
- The **governance issues and solutions** pertaining to responsibilities and accountability within the value chain dependent on cross-border connectivity and seamless services related to the Dutch and Belgian regulatory frameworks (telecommunications, traffic and Connected and Automated Mobility (CAM) experimentation laws, contracts, value chain management).
- **Tactical and operational (pre)conditions** that need to be in place to get the full value of 5G-tooled transport and logistics. This includes implementing use cases that increase cooperative awareness to guarantee safe and responsible teleoperated transport.
- Preparing and piloting teleoperated and telemonitored transport on roadways and waterways to **alleviate the increasing shortage of manpower and bring transport and logistics to a higher level of efficiency** through data sharing in the supply chain and the use of AI.
- Exploring the possibilities of **increasing the volume of freight transported during the night** where excess physical infrastructure capacity is abundant – lowering of personnel costs would make this feasible on a cost-effective basis.
- Teleoperation will be enabled by 5G qualities, such as **low latency, reliable connectivity, and high bandwidth**.

The project's outcome will be the **blueprint for operational pan-European deployment of teleoperated transport solutions** in the logistics sector and beyond.

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