

5G Corridors project fiche – 5G GAIL

5G GAIL: Inception study for the deployment of 5G in the cross-border section of the Carnic and Gailtal Alps between Italy and Austria



The project in a nutshell

5G GAIL is a modular study carried out by Cellnex Italia together with OnTower Austria, Autostrade per l'Italia, and the regional Public Authority on the Italian side (Regione Friuli-Venezia Giulia - RFVG) to assess the effort needed to deploy the transport corridor between Italy and Austria across the Tarvis border, with a neutral and agnostic, passive and active, infrastructure dedicated to the development of digital services, and in particular, the deployment of safe, secure, and sustainable high-performance infrastructure, including Gigabit and 5G networks.

Key facts

Length: 130 km

Corridor: Italy: Udine – Tarvisio/Arnoldstein – Villach: Austria

Total EU grant: €139,750

Project duration: 7 months (January 2023 – July 2023)

Transportation mode: Road

Spectrum bands: 700MHz frequency band licensed for 5G

Standards: 5G agnostic and multi-operator DAS system

Service / Use cases:

- Enhanced Safety: 5G enables real-time communication between vehicles, infrastructure, and pedestrians, facilitating advanced driver assistance systems, collision avoidance, and hazard warnings. This enhances overall road safety and reduces the likelihood of accidents.
- Improved Traffic Management: With 5G, motorways can deploy intelligent transportation systems that provide real-time traffic monitoring, congestion management, and dynamic



routing. This reduces traffic congestion, optimises travel times, and improves overall transportation efficiency.

- **Seamless Connectivity:** 5G's high-speed and low-latency capabilities ensure seamless motorway connectivity. Users can experience uninterrupted access to high-quality, bandwidth-intensive applications such as video streaming, augmented reality, virtual reality IoT applications and low latency services. This enhances the overall road experience for drivers, passengers, and transportation services.
- **Enablement of Connected and Autonomous Vehicles (CAVs):** 5G networks can support the communication requirements of connected and autonomous vehicles, allowing for cooperative driving, platooning, and intelligent traffic control. This paved the way for safer, more efficient, automated transportation systems.
- **Enablement Vehicle-to-Vehicle/Everything**
- **communications:** 5G networks can support the car's communication with objects or other vehicles, allowing for great safety advances.



What will it provide?

The project entails a modular study covering the main typologies of areas as the most efficient approach to generate results for building blocks for subsequent deployment works along the corridor. The study will aim to identify different clusters of specific coverage as an innovative approach with efficient cost management.

How will the project unfold?

To carry out the project, a mobile operator must be involved for both projects. No interest has been found yet.

How is it financed?

The project is funded by EU/CEF Digital programme.

Total EU Contribution: €139,750

More information

[Funding and tenders project page](#)

<https://guide.5gcorridors.eu/wp-content/uploads/2023/10/5ggail.pdf>

About

The ambition of the GUIDE project is to bring together the relevant stakeholders from the ecosystem of 5G Corridors across the European Union (EU) and to help them get the maximum value from the CEF Digital programme, ensuring that future CEF Digital work programmes progressively address the actual needs of the stakeholder communities.

Follow us on [X.com](#) and [LinkedIn](#) for the latest updates on the CEF Digital programmes.

<https://guide.5gcorridors.eu/>

