



5G Corridor project fiche – 5G-SITACOR

5G-SITACOR: Inception study for the deployment of 5G along cross-border sections of the TEN-T Mediterranean and Baltic – Adriatic corridors between Italy and Slovenia



The project in a nutshell

The objective of the study is to assess and define the best modalities to apply the potential of 5G network technology (higher transmission speed, lower latency and higher reliability) to different use cases for the development of linear infrastructures such as Connected and Automated Mobility (CAM) and road safety in the identified areas.

A neutral, agnostic passive, and active infrastructure dedicated to the development of digital services will assess the TEN-T road corridors existing in Friuli Venezia Giulia Region and western Slovenia, with respect to the deployment of safe, secure, and sustainable high-performance infrastructure, including Gigabit and 5G networks.

The project is led by Regione Autonoma Friuli-Venezia Giulia, together with its partners Univerza v Ljubljani, DARS, Università degli Studi di Trieste, Telekom Slovenije., Anas, Retelit, and Luka Koper.

Key facts

Length: 275 km

Corridor: Udine/Ronchis (Italy) – Luka Koper (Slovenia) - Postojna

Total EU grant: €342,742.00

Project duration: 24 weeks (January 2024 – July 2024)

Transportation mode: Road

Spectrum bands: N7 (2600 MHz), N28 (700 MHz) and N78 (3500 MHz), (5900 MHz -for V2V)

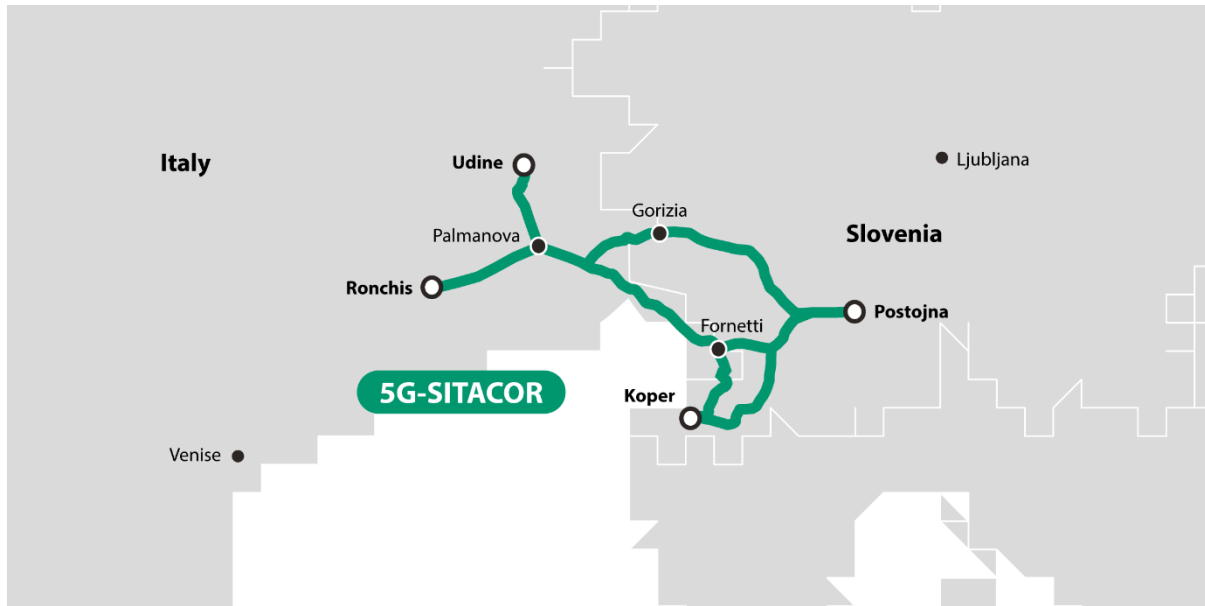
Standards: 3GPP R15 and R16 ETSI

QoS: latencies less than 25ms, data throughput for vehicle up to 1 Gbps



Service / Use cases:

- Collision avoidance
- HLN
- IVI
- Cooperative speed adaption
- Quantum security aspects



What will it provide?

The general objective of the Study is to assess and define the best modalities to apply the potential of 5G network technology (higher transmission speed, lower latency and higher reliability) to different use cases for the development of linear infrastructures such as CAM and road safety in the identified areas.

The Study will aim to:

- assess existing transport and telecommunication infrastructure serving the corridor for efficient sharing and reuse (such as fibre, power supply, utility poles, ground space etc.);
- analyse the technical and economical sustainability of needed investments for the complete coverage of the corridor in line with the goal of the call;
- assess cost-saving strategies by sharing passive and active infrastructure;
- develop linear infrastructures related to CAM road safety and security, as well as the alignment with the goals of EuroQCI for an ultra-secure communication infrastructure;
- identify the economic and technological requirements to ensure seamless connectivity enabling full digitalisation of the corridor in line with the existing standards.



How will the project unfold?

The 5G-SITACOR project is structured into four main work packages (WPs), each designed to address specific aspects crucial for the project's success. Below is an overview of each work package and its objectives:

WP1: Project Management and Communication

This work package focuses on the effective management and communication of the project. Key activities include:

- **Start-up Activities:** Establish the management and coordination bodies of the project.
- **Day-to-day Management:** Administration, evaluation, monitoring, and internal communication among partners.
- **Financial Management:** Handling all financial aspects, ensuring proper budget allocation and tracking.
- **Communication and Dissemination:** Promoting the project results and maintaining effective communication channels as per the Communication Plan.
- **Institutional Cooperation:** Setting up a cross-border technical working table on digital infrastructures.

WP2: Stakeholders' Engagement

The goal of WP2 is to engage and involve stakeholders throughout the project. Key activities include:

- **Identification of Stakeholders:** Identifying key stakeholders such as policymakers, businesses, citizens, civil society, telecommunications operators, and road infrastructure managers.
- **Establishment of Stakeholder Platforms:** Creating platforms for ongoing dialogue to ensure the sharing of objectives and needs, aligned with market logic.

WP3: Assessment of Existing Infrastructure and Feasibility Analysis

Objective: This work package involves assessing the current infrastructure to determine its suitability for reuse and conducting a feasibility analysis. Key activities include:

- **State-of-the-art Analysis:** Reviewing existing infrastructure and technologies.
- **CAM Services:** QoS needed in different use case.
- **Quantum security:** study the security aspect aligning with EuroQCI infrastructure goals.

WP4: Network Planning and Cost Budgeting

Objective: WP4 focuses on the detailed planning and budgeting required for the implementation of 5G infrastructure. Key activities include:

- **Planning Activities:** Developing a comprehensive network plan to achieve the desired Quality of Service (QoS).
- **Cost Calculation and Benefit Analysis:** Performing cost-benefit analysis to identify economically viable sections of the corridor and justifying the need for CEF funding.

How is it financed?

The project is funded by EU/CEF Digital Grant programme.

Total EU Contribution: €342,742.00



More information

[5G Corridors Call 2: Selected Project Overviews | Shaping Europe's digital future \(europa.eu\)](#)

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/>

