



5G Corridor project – 5G TRACKS



The project in a nutshell

The 5G TRACKS project focuses on enhancing cross-border connectivity between Greece and Bulgaria by deploying new network elements and upgrading the existing radio access network. This initiative aims to deliver uninterrupted 5G coverage for Cooperative, Connected, and Automated Mobility (CCAM), high-value commercial services, and multi-service/multi-application 5G use cases.

By ensuring seamless connectivity and consistent security standards across the entire network, the project will play a key role in integrating this corridor with other 5G deployments along the TEN-T Network, contributing to a cohesive and future-proof European digital infrastructure.

The project is coordinated by VIVACOM BULGARIA EAD (Bulgaria) and features NOVA SMSA (Greece) and Bulgaria's Road Agency.

Key facts

Length: 761 km transport

Corridor: Cross border sections between Greece and Bulgaria, as part of the Orient/East-Med and Baltic Sea - Black Sea - Aegean Sea corridors:

1. Sofia - Plovdiv - Haskovo - Kapitan Andreevo and Kapitan Petko Voyvoda;
2. Alexandroupoli - Ormenio;
3. Langadas - Kavala - Komotini - Alexandroupoli;
4. Alexandroupoli - Kipoi.

Total EU grant: 9,105,669.14 (50%)

Project duration: 36 months (December 2024 - November 2027)

Transportation mode: Road

Spectrum bands: The project will be based on a new 5G Standalone (SA) network architecture supporting advanced service features. The provision of 5G coverage by the project will use the 700

MHz band across the full length of the Corridor sections, and the 3.6 GHz band in “hotspot” areas with increased traffic demand.

Service / Use cases:

As a direct result of this new connectivity, the project will install 5G-enabled meteorological stations on the Sofia- Haskovo-Kapitan Andreevo corridor sections. Additionally, the project will contribute to the clustering of 5G initiatives with the development of concepts and facilities for the interconnection of the 5G corridor sections between Bulgaria and Greece.



What will it provide?

The project will ensure seamless connectivity and consistent security standards across the entire network, fostering its integration with other 5G deployments along the TEN-T network.

The network is designed to deliver an average data rate of 1 Mbps per vehicle with latency below 150 milliseconds, providing reliable performance for connected and automated mobility. Built primarily on optical fiber infrastructure, it incorporates end-to-end power outage protection and high availability measures, guaranteeing the service continuity essential for uninterrupted operations and enhanced user experiences.

How is it financed?

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

Total EU Contribution: €9,105,669.14 (50%)



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.

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