

5G Corridor project fiche – 5GNETC

5G NETC: 5G Northern European Transport Corridor



The project in a nutshell

5G NETC aims to improve cross-border network service continuity for established services and adopt 5G infrastructure in public environments to support new 5G services and applications.

The project is a joint effort from Telia Sweden, Telia Finland and Latvia Mobilais Telefons. The goal is to enable applications and services for road CAM and Future Railway Mobile Communication Systems (FRMCS) use case solutions and their introduction.

Key Facts

Length: > 2000 km

Corridor: Sweden - Finland - Latvia

Total EU grant: €15,535,000.00

Project duration: 36 months (May 2022 – April 2025)

Transportation mode: Road & Rail

Spectrum bands: 3GPP TS 38.101-1 V16.12.1 (2022-06): n28 703 MHz – 748 MHz/758 MHz – 803 MHz (FDD); n78 - 3300 MHz – 3800 MHz (TDD)

Standards: 3GPP Rel-16

QoS: 3GPP specification on 5QI values with standardized QoS characteristics.

Service / Use cases:

- Capacity reservation for industrial and mission-critical transport and logistics
- Faster change of network at border crossings
- Remote control of vehicles and trains



What will it provide?

The project will ensure dedicated capacity through High-Value Connectivity for CAM and FRMCS services and other industrial or public services with special quality requirements. It will also drive 5G service and application development as an enabler of CAM and FRMCS Services to close the gap between the two layers.

How will the project unfold?

Reliable network connectivity is a significant requirement to support automotive use cases. Therefore, the main effort was spent building and launching 5G stations along major highways. Attention has also been given to service assurance to support automotive use cases by dedicating radio resources and isolating them from MBB network traffic using the 5G SA key feature - network slicing. Slices will also be adapted to use case requirements, with different priority values (based on QoS), performance, and latency differentiation.

In addition, the solution will have a Network Exposure function, which exposes network capabilities and allows the partners to configure a certain quality in the network (Quality on Demand, GSMA use case). This will enable the automotive industry to tune the network to meet the requirements of specific use cases.

How is it financed?

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

Total EU Contribution: €15,535,000.00

More information

[Funding and tenders project page](#)

<https://guide.5gcorridors.eu/wp-content/uploads/2023/10/5g-netc.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.

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