Project Partners

5G-VICTORI's uniquely strong consortium brings together major players form ICT including operators, equipment vendors academic and research organisation and SMEs as well as main players from vertical industries.

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IHP	ADMIE	Alba Iulia Municipality
Alstom	Cosmote	DB Netz AG
Deutsche Bahn	Digital Catapult	EURECOM
Fraunhofer FOKUS	i2CAT	IASA
Intracom Telecom	IZT	Kontron Transportation Austria AG
Mativision	Orange France	Orange Romania
PaxLife Innovations	RBB	TrainOSE
University of Bristol	University of Patras	University of Thessaly
Urban Hawk	Zetta Networks	

VERTICAL DEMOS OVER COMMON LARGE SCALE FIELD TRIALS FOR RAIL, ENERGY AND MEDIA INDUSTRIES

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5G PPP

About 5G-VICTORI

5G-VICTORI will conduct large scale trials for advanced vertical use case verification focusing on Transportation, Energy, Media and Factories of the Future and cross-vertical use cases.

It leverages 5G network technologies developed in 5G-PPP Phase-1 and Phase-2 projects 5G-XHaul and 5G-PICTURE and exploits extensively existing facilities interconnecting main sites of all ICT-17 infrastructures i.e. 5G-VINNI, 5GENESIS and 5G-EVE and the 5G UK test-bed in a Pan-European Infrastructure.

The project will provide enhancements of existing infrastructures towards integration of a large variety of vertical and cross-vertical use cases. 5G-VICTORI's platform aims to transform current closed, purposely developed and dedicated infrastructures into open environments where resources and functions are exposed to ICT and vertical industries through common vertical and non-vertical specific repositories.

These functions can be accessed shared on demand and deployed to compose very diverse set of services in a large variety of ecosystems.

Learn more

Objectives

⭐ Design and prototype an open 5G infrastructure capable of instantiating and co-hosting various vertical sectors. This will be based on leading industry and open source technologies supporting very diverse service requirements with guaranteed QoS adopting the concepts of slicing and virtulization.

⭐ Multiple-5G platform integration to facilitate cross-border operation of vertical industries involving various EU member states, substantially reducing the life-cycle cost of transportation, energy, media and factories of the future.

⭐ Flexible network architecture enabling function deployment and relocation of vertical-specific network functions based on the requirements in terms of capacity, latency and reliability.

Verticals

🚆 **Transportation**   🔋 **Energy**   🖼 **Media**

🏭 **Factories of the Future**   ▦ **Cross-vertical use cases**

Objectives

⭐ Purposely extend the three 5G-PPP Platforms developed under the ICT-17-2018 and the 5GUK platform with appropriate HW/SW in support of the Transportation, Media, Energy, Factory of the Future verticals.

⭐ Encompass new business model definitions supporting the shift from "network as an asset" to "network as a service" model vision. Replace vertical specific networks (telecom, rail, energy) with public networks supporting in parallel several vertical industries use cases

⭐ Impactful contributions towards standardisation bodies, involving vertical actors, for what concerns the second phase of 5G standardisation. Participation of key European industrial partners with high standardisation impact is desired.

Use Cases

"Enhanced Mobile broadband under high speed mobility"

"Digital Mobility"

"Critical services for railway systems"

"Smart Energy Metering"

"Digitization of Power Plants"

"CDN services in dense, static and mobile environments"