5G-Transformer aims to transform today’s mobile transport network into an SDN/NFV-based Mobile Transport and Computing Platform (MTP), which brings the “Network Slicing” paradigm into mobile transport networks by provisioning and managing MTP slices tailored to the specific needs of vertical industries. The technical approach is twofold:

1. Enable vertical industries to meet their service requirements within customised MTP slices; and

2. Aggregate and federate transport networking and computing fabric, from the edge all the way to the core and cloud, to create and manage MTP slices throughout a federated virtualized infrastructure.

The goal of 5G-Transformer is to design, implement and demonstrate a 5G platform that addresses the aforementioned challenges.

USE CASES

The project will demonstrate several vertical industry use cases:

- **Automotive**: Autonomous Cruise Control (ACC) enforcement application, Collaborative Advanced Driver Assistance Systems (ADAS) application and Remote Vehicle Interaction (RVI) application.
- **eHealth**: Improvement of the municipal emergency communication network and development of a new technological solution for health workers and volunteers.
- **Media & Entertainment**: Media applications for stadia and the Olympic Games.

EXPECTED IMPACT

5G-Transformer targets several 5GPPP KPIs, such as reduced service deployment times or OPEX and CAPEX reduction.

The 5G-TRANSFORMER project is an ambitious initiative that will certainly have strong impact in industry. In fact, the project implements a plan for communication, dissemination, and exploitation to maximise its impact, which includes products and standardisation (e.g., ETSI, IETF and ONF). Therefore, innovation management is also a key component.

The technologies developed in 5G-TRANSFORMER are expected to strengthen the position of European companies in the upcoming 5G Mobile Network market, both in Europe and Worldwide, for the whole value chain (Verticals, Operators, Service Providers, Manufacturers, SMEs, and Complementary Industries).

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