

Workshop on Large scale 5G Trials in support of high-performance vertical industries

Organizing Project	5G VICTORI https://www.5g-victori-project.eu/ 5G VINNI https://www.5g-vinni.eu/ 5GENESIS https://5genesis.eu/
Structure	Half day workshop, 8 invited papers and panel discussion
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Background and Motivation

Intensive research and development during the last decade have contributed to the advancement of radio and networking technologies and the roll-out of the first end-to-end 5G testbeds in Europe (ICT-17 projects/5G facilities ?). Some of the technologies in the areas of network management and orchestration, edge computing, network slicing and new flexible radio and wireless backhaul technologies are currently being validated through large scale trials that facilitate external experimentation (and vertical on boarding) while showcasing network level Key Performance Indicators (KPIs) that outperform the previous technology generations and counterparts. In order to accommodate vertical industries to test and evaluate the performance of innovative vertical services/ applications on the basis of service level Key Performance Indicators (KPIs), and facilitate the development of new business models, 5G facilities around Europe are seeking harmonized experimentation procedures and large scale vertical validation trials.

5G-VICTORI will perform field trials of various scales focusing on a set of specific use cases associated with several demanding, high performance vertical industries, deployed over the four 5G facility platforms 5G-VINNI, 5G-EVE, 5GENESIS, (ICT-17 facilities) and the 5GUK Bristol testbed, as well as on cross-facility field trials enabled by the 5G-VICTORI Infrastructure Operation System (5G-VIOS). In this context, a workshop is being proposed that will communicate the co-designing experience between Vertical industries, 5G facility representatives and technology providers and will focus on the effort required to ensure the

accomplishment of the Vertical services' requirements, with emphasis to demanding vertical like Transportation and Energy.

Topics of Interest

The aim of the workshop is to provide the experiences of the main ICT 17 and ICT 19 projects on large scale trials that experiment with innovative services and applications in the area of high impact high performance vertical industries like Transportation and Energy. This event will focus on the following subjects of interest:

Large scale experimentation platforms

Cross-domain zero-touch management and orchestration

End-to-end service provisioning across more than one 5G facilities

NFV Orchestration

Vertical VNF development

KPI definition and measurements

5G and network slicing in Verticals (Energy, Transportation, etc)

Private networking for demanding verticals

Multi-domain resources management