





#### 5Growth: 5G-enabled Growth in Vertical Industries MAIN OBJECTIVES **CONCEPTS & CHALLENGES**

5G platform for multi-RAT, multi-platform, multi-domain mobile networks that bridges the gaps resulting from Phase 1/Phase 2 projects while leveraging the potentials of ICT-17 platforms to deliver end-to-end services. Main challenges:

- Design and implementation of a platform, and the related components, interfaces and algorithms, to empower verticals to provision 5G connectivity and services directly at the verticals' sites.
- Automated multi-level, cross-domain, hierarchical service orchestration with multi-domain management of resources with seamless integration at vertical sites with existing platforms.



- Vertical-oriented trial-based assessment, incl. 5G PPP KPIs.
- Tight integration between 5Growth and ICT-17 testing facilities with the goal of measuring KPIs and validating 5G capabilities.
- Quantification of the advantages of the use of slicing, virtualization and orchestration.

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Al-driven end-to-end network

**solutions** to jointly optimize Access, Transport, Core and Cloud, Edge and Fog resources,

across multiple technologies and

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The objective of 5Growth is the technical and business validation of 5G technologies from the verticals' points of view, following a field-trialbased approach on vertical sites (TRL 6-7). Its vision is to empower verticals industries, such as Industry 4.0, Transportation, and Energy with an AI-driven Automated and Sharable 5G End-to-End Solution that will allow these industries to simultaneously achieve their respective key performance targets. Towards this vision, 5Growth will automate the process for supporting diverse industry verticals through:

A vertical portal in charge of interfacing verticals with the 5G End-to-End platforms, receiving their service requests and building the respective network slices on top,

- · Closed-loop automation and SLA control for vertical services lifecycle management, and
- AI-driven end-to-end network solutions to jointly optimize Access, Transport, Core and Cloud, Edge and Fog resources, across multiple technologies and domains.

## VERTICAL PILOTS AND USE CASES





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More information at www.5g-ppp.eu