“5G Precision - High Precision & Control 5G Networks”

High-precision Networks

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• High-Precision network services and systems development
  • High-Precision Network Services with Guaranteed Bandwidth & Latency / Restricted IP Network Programmability ; High-Precision Network benchmarking for testing KPIs
  • High-precision Networks realised as slices; High-precision network scenarios specification & design for robust and/or critical connectivity services, extreme QoS, autonomous driving, smart grids, unmanned vehicle management, tele-healthcare, automatic factory/industrial internet, entertainment, hologram, instantaneous teleporting, real-time gaming, tactile internet.
  • Multi-Domain Operating Coordination of high-precision facilities.
  • Operation & Management Platforms redesign with high-precision measurement and monitoring, light-weight service function chaining
  • Native network programmability in High-precision Networks:
    • Re-allocate capacity in real time wherever needed making elastic and scalable networks possible
    • Provide service agility by automation
    • Minimize integration efforts
    • Enabling E2E lifecycle management
    • Sharing infrastructure in an efficient way
  • Validate and trial high precision services deployed as slices of the 5G infrastructure with strict guaranties of KPIs and QoS including guarantees for bandwidth and low latency necessary in vertical use cases.

Presentation at the Workshop “Preparing for ICT-19: Advanced 5G validation trials across multiple vertical industries” of 14th September 2018
5G TestBed approach

• Step 1- Adapt and further develop a significant existing 5G S/W & Network stack and components to accommodate the gradual realisation of the project objectives; Realisation of large scale European 5G show cases; vertical trials executed over multiple interworking sites facilities

• Step 2 - Selective porting and adaptation of the project S/W stack on the ICT-17 project platforms (5G VINI or 5GENESIS or 5G –EVE projects ) for federated European 5G show cases

Consortium Status: Initial interest from 3 Operators, 2 Vertical Industry companies, 2 Telecom Manufactures, 3 universities

We are looking forwards for additional consortium members; Please contact Prof. Alex Galis <a.galis@ucl.ac.uk>