

COORDINATED CONTROL AND SPECTRUM MANAGEMENT FOR 5G HETEROGENEOUS RADIO ACCESS NETWORKS

- ◆ SOFTWARE DEFINED NETWORKING FOR RADIO ACCESS NETWORK (RAN)
- ◆ EFFICIENT RADIO RESOURCE MANAGEMENT IN PROGRAMMABLE RAN
- ◆ FLEXIBLE SPECTRUM MANAGEMENT

Solutions to control and coordination in 5G RAN

The exponential growth of mobile traffic, the rise of network complexity, and the need for inter-network coordination of wireless network resources call for breakthroughs in control, coordination and flexible spectrum management in 5G networks.

COHERENT addresses these challenges by researching, developing and validating a novel control framework for future mobile networks. The key innovation of COHERENT is to develop a unified programmable control framework to coordinate the underlying heterogeneous mobile networks as a whole.

PROJECT FACTS

Duration:
July, 2015 – December, 2017

Coordinator:
Dr. Tao Chen, VTT Technical Research Centre of Finland LTD

Consortium:
15 partners from 9 countries with competence well balanced among industry company, telecom operators, universities, research institutes, and SMEs.

Budget:
6 M€, funded by the European Commission under the H2020 Programme

EXPECTED IMPACTS

- ◆ Develop key enabling technologies for 5G mobile networking infrastructure to support cost-efficient emergence of novel network services and applications.
- ◆ Improve flexibility & spectral and energy efficiency of radio access network infrastructure.
- ◆ Pave the way for holistic end-to-end mobile network function virtualization solutions.

www.ict-coherent.eu

coherent-contact@5g-ppp.eu

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