



The European Open Ecosystem for Future Internet Experimentation & Innovation

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Federated Union of Telecommunications Research Facilities for an EU-Brazil Open Laboratory

FUTEBOL federates wireless and optical testbeds in Europe and Brazil, develops a supporting control framework, and conducts experimentation-based research on converged optical/wireless networks. Wireless trends such as cell densification and cloud radio access networks require joint consideration of optical and wireless network architectures. These problems are of direct impact to Brazil, with highly heterogeneous infrastructure capabilities and demand, as well as to the EU, which aims to regain its leadership in the next generation of telecommunication technologies.

How does it work?

FUTEBOL establishes the research infrastructure to address these research challenges through innovation over this infrastructure, with a consortium of leading industrial and academic telecommunications institutions. In this capacity, the methodology of the FUTEBOL project is organized into three steps: i) the composition of federated research infrastructure suited for integrated optical/wireless experimentation, ii) the development of a converged control framework to support experimentation on the federated research infrastructure, and iii) the direct advancement of telecommunications through research using the developed research infrastructure and control framework.

Key objectives

The overall objective of the FUTEBOL project is to develop and deploy research infrastructure, and an associated control framework for experimentation, in Europe and Brazil, that enables experimental research at the convergence point between optical and wireless networks. The infrastructure and control framework created in FUTEBOL will be federated according to principles developed in the FIRE initiative and facilities in the two continents interconnected through infrastructure deployed by the FIBRE project.

The FUTEBOL federation and tools will be used in experimental research on optical and wireless convergence that is critical to the capacity gains envisioned in the evolution of these networks over the next decade.

Project Facts

CALL: Collaborative Projects Call 2 - ICT12 | **EXECUTION:** From March 2016 to February 2019

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