

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

Newsletter #3. September 2017

Welcome Back to FUTFBOL!

The EU-BR FUTEBOL project is establishing research facilities (testbeds) in both Europe and Brazil to advance research and innovation on the convergence of wireless-optical telecommunication networks. This will lead to enhancements to commercial products and services, telecommunications business models, and education, thus generating a positive impact on

The FÚTEBOL project is now on its second year of research and development. Apart from some dissemination activities, this newsletter highlights the Operator's Workshop, the Project's Review, and the Open Call announcement.



EuCNC 2017

July 2017

From the 12th to 15th of July, FUTEBOL has participated in the EuCNC conference through several activities: a poster paper presented by Paulo Marques (IT-Aveiro); a talk on 5G techno-business aspects by Johann M. Marquez-Baria (TCD): demonstration booth, presenting the experiment Heterogeneous Wireless-Optical Network Management with SDN and Virtualization live demo, lead by Pedro Alvarez (TCD).

The demo booth run over the whole week of the conference.



Telia Operator July 2017

In the 19th of July, at Telia operator in Denmark, Moises Ribeiro (UFES) gave the talk Fiber-wireless Integration: Use Cases and Experiments in the H2020 EU-Brazil FUTEBOL. There were around 25 people in the audience. In a feedback letter. Daniel Askeroth. Director of Networks, said that **FUTEBOL** is an interesting research project, that deals with relevant research questions for 5G. And he added that Telia would like to get more insights on how reliability and redundancy are foreseen in centralized scenarios.



CROWNCOM 2017 September 2017

From the 20th to 21st of September, the 12th EAI International Conference on Cognitive Radio Oriented Wireless Networks was held in Lisbon, Portugal. During this conference, the FUTEBOL project was presented, with an experiment demonstration on Licensed Shared Acess (LSA) with carrier aggregation in the 3.5GHz band by Pekka (VTT).

Also our Open Call was presented in the FIRE workshop chaired by Jorge Pereira (EC).



Publications and Dissemination

The FUTEBOL project is now on its second year of research and development. By the end of August, the project had 42 publications in the main conferences and journals venues (both in optical and wireless domains), 16 invited talks, 2 workshops (Europe and Brazil), and 1 contribution to 3GPP. Which gives a total of 51 dissemination activities. All publications can be found at the project's website: http://ict-futebol.org.br/index.php/dissemination/publications/. Moreover, the first year deliverables are also in: http://ict-futebol.org.br/index.php/dissemination/deliverables/.

The FUTEBOL project also has a YouTube channel, where the videos about the experiments and tutorials are present. Here, users can see the setup of each experiments, tutorials how to operate them, demos, and many other related videos about optical and wireless networks.

Checkout the videos in: https://youtube.com/channel/UCQDsGy0JilS3MfSPa1fPvRw/featured.









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Operator's Workshop

The operator's workshop, with around 50 attendees, took place in the 1st of June, gathering researchers, network operators, and the Brazilian regulatory agency ANATEL in order to foster cooperation, share experiences, and discuss challenges and opportunities for future optical-wireless network deployments.

The panelists and keynote speakers were composed from both academia and operators personal. Namely, the following institutions were at stage sharing their views about the different topics that FUTEBOL tackles: Anatel, Fibre project, Intel Mobile Communications GmbH, Instituto Tecnológico Vale (ITV), Algar Telecom, Trinity College Dublin (TCD), Centro de Pesquisa e Desenvolvimento em Telecomunicações (CpqD), Universidade Federal de Uberlândia (UFU), and Universidade de Minas Gerais (UFMG).

Also, the attendees could see remote and live demonstrations for the smart lights system, developed in the context of experiment Adaptive Cloud/Fog for IoT According to Network Capacity and Service Latency Requirements.



Project's Review

The first year review meeting happened in the 2nd of June. In this meeting, Brazilian and European reviewers evaluated the project regarding its current achievements and what has been promised in the project's submission.

During presentations made by consortium partners, the reviewers had the time to ask questions and suggest improvements for the work that was done during the first

Ít was a great success!

In fact, only minor deviations to the initial plan had happened and all project's Key Performance Indicators (KPIs) were superseded.

Congratulations to all FUTEBOL partners.



Open Call

The Open Call was launched the 31st of August. This call is addressed to anyone interested to use the methodologies and tools that have been developed within the FUTEBOL project, in order to conduct original research in networking and telecommunications, especially in the integration of optical and wireless technologies.

The expected types of participants are educational or research institutions, universities, small/medium/large enterprises, and anyone in general interested in realizing experiments with optical and/or wireless networks.

Our testbeds provide infrastructure to perform experiments using a number of communication technologies, such as:

- Optical and wireless network virtualization: C-RAN, NFV, and SDN;
- Assess the quality of service and quality of experience in optical and wireless networks;
- Internet of Things (IoT), 4G and 5G networks, and their relation with the optical core; Licensed Shared Access (LSA).

The Open Call will employ a fast submission process based on a simple proposal template. Therefore, the complexity to write a proposal is small. Experimenters selected in the call will have access to either basic or advanced support: tutorials, remote services and technical assistance in setting up the experiments, and training.

More information can be found in the project's website: http://www.ict-futebol.org.br/index.php/opencall/.

Consortium













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