



European-Brazilian collaborative projects together to innovate the Cloud Computing sector

With the mandate of the European Commission and the Brazilian Ministry of Science and Technology, on March, 18th EUBrasilCloudFORUM brought together six exciting European & Brazilian cloud computing collaborative projects in Rio de Janeiro to start an innovate plan of action to innovate the cloud computing sector.

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[EUBrasilCloudConnect](#), [EUBRA-BIGSEA](#), [HPC4E](#), [Futebol](#), [SecureCloud](#), [FIBRE](#): these acronyms stand for six projects which, beginning a few years ago, started a collaboration between European and Brazilian institutions to push forward innovation in cloud computing technologies in different fields of applications. In order to facilitate the establishment of a cooperation model that enables Europe and Brazil to formulate and develop a **common strategy and approach for Research & Innovation in Cloud Computing**, **EUBrasilCloudFORUM**, a 24 month coordination and support action jointly funded by the European Commission and the Brazilian Ministry of Science and Technology, organized a Concertation Meeting on 18th March in Rio de Janeiro, with all these initiatives, to start building common scenarios based on collaboration needs, priorities and opportunities between Europe and Brazil.

Cloud excellence around the table

According to the EU-Brazil Information Society Dialogue, the EU and Brazil need to engage in more of a dialogue on cloud computing, that addresses general cloud policy aspects, personal data protection, trans-Atlantic flows of data, portability of data and appropriate remedies to vendor lock-in. All these aspects were addressed during the meeting, which successfully managed to bring together almost **all the current research players of EU-Brazil collaborative initiatives working on cloud technologies**.

At the meeting we discovered once more that the cloud computing landscape is very active between the two regions. **EUBrasilCloudConnect** project (www.eubrazilcloudconnect.eu, 2014-2016) made available, to different communities of scientists, a set of cloud computing tools and a programming models to help their research on Vascular Simulation, Leishmaniasis, Climate Change and Biodiversity, while fostering EU-Brazil international cooperation in distributed computing infrastructures. The **FIBRE** project (<http://fibre.org.br>, 2018) created a platform for experimentation and education on computer networks, for the academic community benefit. Thanks to portability of data, it will be now integrated to major worldwide infrastructures.

Smart cities, Energy, Security, Emergency management: that's where EU-Brazil IT research is currently working. Other projects were invited to join the table which have just begun but have clear objectives in mind. Like the **EUBRA-BIGSEA** project (<http://www.eubra-bigsea.eu>, 2016-2018), which addresses advanced QoS cloud, capturing, federating and annotation of large volumes of data, with special focus on





security and privacy. The goal is to transfer this technology to a real user scenario with high social and business impact, namely on smart cities. Or the **FUTEBOL** project (www.ict-futebol.org.br 2016-2018) which aims to find the convergence point between optical and wireless networks. The goals are not only to create these facilities in Europe and Brazil, but also to showcase experiments, have new partners using FUTEBOL research infrastructure, attend ETSI technical committee meetings and liaise with telecom operators.

Based on computer power and energy, **HPC4E** (<https://hpc4e.eu/> 2016-2018) focuses on high performance computing, with applications on atmosphere, biomass and geophysics energies. It will benefit the hydrocarbon, biofuels and wind farm sectors. The **SecureCloud** project (<http://www.securecloudproject.eu/>, 2016-2018) will develop new services for cloud computing users, applications for industrial partners, software for managing secure containers, transfer technology between researchers and cloud computing companies. Finally, the **Rescuer** project (<http://www.rescuer-project.org/> 2013-2016) focuses on industrial areas and large-scale events to develop an interoperable computer-basis solution to support command centres quickly in emergencies & crises through a reliable analysis of crowdsourcing information with open data.

Sustainability, energy management, assisted health and environment monitoring, were identified as the most critical topics where cooperation is needed, with research gaps and opportunities where cloud computing can have a beneficial relevant role. Thanks to the arena provided by EUBrasilCloudFORUM, these projects will combine their own specificities and will continue to work together in order to identify and fleshing out the future scenarios and research topics for cloud computing in Europe and Brazil.

About

EUBrasilCloudFORUM is the consolidated result of the efforts pooled together by representatives of the EU-Brazil Working Group set up at the EUBrazil workshop held in July 2014, in Brasilia. The project is going to contribute in a strategic way to the definition, scoping and creation of an EU-Brazil Open Science Cloud environment.

EUBrasilCloudFORUM has been charged by the EC and MCTI to support the EU-BR collaborative projects in the collection and promotion of their results and activities. The results will be used to draft a research Roadmap on cloud computing, identifying collaboration needs and opportunities between Europe and Brazil for the European Commission and to MCTI, thus contributing to the definition of future cooperation priorities between the two regions.

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