



H2020 EU-Brazil Coordinated Call

EUB-01-2017: Cloud Computing





European
Commission

EUB1: Cloud computing,
including security aspects

Projects from the 1st coordinated call in H2020 WP2014-15

2 RIAs

SECURECLOUD

- aims to remove technical impediments to dependable cloud computing by **ensuring the confidentiality, integrity, availability and security of applications and their data**. It will validate and demonstrate the benefits of the approach by applying it to realistic and demanding Big Data use cases in the domain of **critical infrastructures**.

EUBRA-BIGSEA

- focuses on the development of advanced cloud services to support Big Data by providing services in the cloud for the processing of **massive data** coming from **highly distributed sources**.

1 CSA

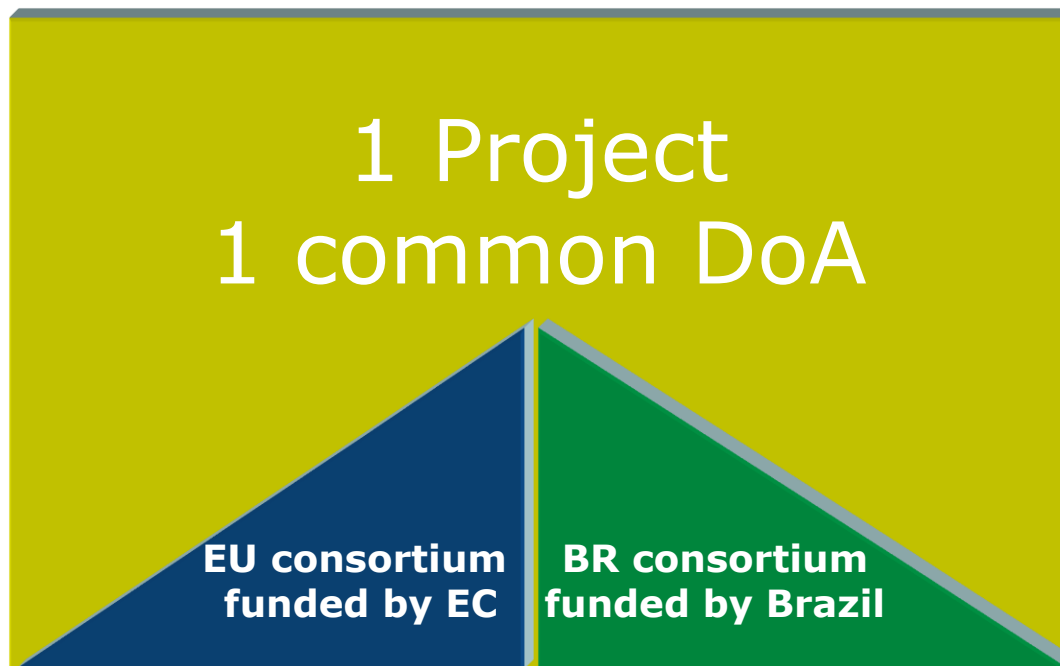
EUBRAZILFORUM

- aims at establishing an organisational cooperation model that enables the EU and Brazil to formulate and develop a **common policy and research strategy** and approach for research & innovation in Cloud Computing in line with the priorities of each region.

What drives a Coordinated call

- Alignment of **common** interests (research and policy) between EU and Brazil
- **Specific topics** for the collaboration are identified through **consultations with industrial and academic stakeholders** in both sides and followed by agreement at strategic level with the EC and the funding agencies of the relevant country
- Common **agreement** on the **call text** and **budget** allocation
→ **equal amount of funding** from both sides
- End Results should aim at **co-developing technologies taking into account interoperability and data portability issues and contribute to future standardisation** (as reflected in the Impact criterion)

ONE Project, TWO Contracts



Coordinated proposals with balanced participation of EU and Brazilian partners should make a substantial contribution to the identified themes indicating the benefits of a joint effort

Cloud Computing International priorities

- *in line with Digital Single Market (DSM) policy initiatives and EU Cloud strategy*

- **Targeted Cloud research** that is driven through **coordinated calls** in FP7 and H2020 (current collaboration activities include Japan, Brazil and South Korea)
- **Cloud policy** coordination on specific areas: **international standards for SLAs, certification and cross border data flows** (on-going bilateral dialogues and actions with USA and Brazil)
- ✓ **Results from international Cloud Research will facilitate *policy coordination* in the relevant areas between the EU and the involved third countries.**



EU-Brazil cooperation on Cloud Computing: the political context



European Council Conclusions EU Heads of State and Government (25 October 2013)

Chapter on "Digital Economy, Innovation and Services"

- Several *strategic technologies* such as *Big Data* and **Cloud Computing** are important *enablers* for *productivity and better services*. Cloud Computing should improve access to data and simplify their sharing. Big Data aims to process, collect, store and analyse large amounts of data
- *EU action* should provide the right framework conditions for a *single market* for *Big Data* and *Cloud Computing*, in particular by promoting high standards for secure, high-quality and reliable *cloud services*

https://www.consilium.europa.eu/uedocs/cms_data/docs/pressdata/en/ec/139197.pdf

7th EU-Brazil Summit:

Brussels, 24 Feb 2014

Joint Statement, Chapter on "Boosting Competitiveness, Growth and Jobs, Paragraph 16:

"In the domain of ICT cooperation we welcomed the enlarged policy cooperation in Cloud Computing. On ICT infrastructure, we welcomed the plans for the future installation of a fibre-optic submarine cable linking Brazil and Europe, which will improve communications between the two continents, facilitate the take-up of broadband, stimulate ICT investments, reduce the interconnectivity costs for our businesses and researchers, enhance the protection of communications and provide better functional characteristics"

EC and Brazil Presidents: *"These aims should be translated into concrete initiatives by the next EU-Brazil Joint Action Plan 2015-2017"*



EUB-01-2017: Cloud Computing

Specific Challenge

Cloud computing is now an established global paradigm for the delivery of IT services in all sectors of the digital economy. However, further enhancements are still required in critical aspects of cloud computing, including **enhanced security and privacy; trustworthy clouds; resource pooling; data management and traceability; virtualization; and hybrid systems**. Support towards **intercontinental experimentation** on cloud infrastructures and services are necessary as well, especially in the context of EU-Brazil cooperation.



EUB-01-2017: Cloud Computing Scope

Research and Innovation Actions (RIA)

- The focus of the joint research will be the development of **innovative technologies for next generation cloud infrastructures and services** able to cope with the challenges from different application domains in business and societal contexts. The technologies to be developed should aim at **future standardization** as well as take into account **interoperability** and **data portability**.



Expected impact

The joint EU-Brazil research is intended to develop **innovative cloud computing technologies leading to next generation solutions**. The research collaboration will also facilitate and enhance policy coordination between the EU and Brazil in relevant areas.

In particular, projects are expected to:

- Facilitate the development of **cloud-enabled, secure and trustworthy** applications **based on robust standardized technologies**.
- Develop technologies to manage **hybrid resources** in the cloud, as well as solutions for **cloud-centered** data management.
- Submit **joint contributions** towards **international standardization** activities.



Types of Action & funding

Research and Innovation Actions:

The Commission considers that proposals requesting a contribution from the EU **between EUR 1.0 and 1.5 million** would allow this specific challenge to be addressed appropriately by **two distinct projects**.

Total available EU funding = **€2.5 million with matching funds from Brazil**

Nonetheless, this does not preclude submission and selection of proposals requesting other amounts



Formalities and schedule

Additional admissibility criterion:

- Participants in the EU collaborative projects are required to conclude a **coordination agreement** with the participants in the coordinated project funded by the **RNP** (Rede Nacional de Ensino e Pesquisa - Brazilian National Research and Education Network). A draft of this agreement has to be provided with the proposal.

Additional eligibility criteria:

- Proposals submitted to this call which **do not include coordination** with a Brazilian proposal submitted to RNP for evaluation will be considered **ineligible**.
- The proposed project duration shall not exceed **36 months**.
- Proposals will only be selected on the condition that their corresponding coordinated Brazilian project will be funded by the RNP.

Opening date: **08 November 2016**

Deadline: **14 March 2017@17h00** (Brussels time)



Further information

H2020 WP2016-17

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-leit-ict_en.pdf

Call - EU-Brazil Joint Call (pages 115-120)

Horizon 2020

<http://ec.europa.eu/programmes/horizon2020/>

Participants Portal

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

Digital Single Market – Cloud Computing

<https://ec.europa.eu/digital-single-market/en/cloud>