



EUB 2015 EU-Brazil Research and Development Cooperation in Advanced Cyber Infrastructure

EUB 2: High Performance Computing (HPC)

**2nd EU-BR Cooperation Workshop in Brasília
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e-infrastructure

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Subtopic EUB2–2015: High Performance Computing (HPC)

Scope

- ❑ the development of state-of-the-art HPC environment that efficiently exploits the HPC resources in both the EU and Brazil and advances the work on HPC applications in domains of common interest

Specific focus

- ❑ application work of HPC on societal challenges and in areas such as transport, energy, environment, climate, health and bio-sciences, prediction and simulation of natural disasters, disaster prevention and crisis management, urban development, etc.



Expected impact

- ❑ Applications benefitting from this environment could have a direct impact in a number of fields of common interest such as climate change, natural resources management, bio and life sciences
- ❑ Increase efficiency in the usage of expertise and HPC e-Infrastructures that exploit the computational, communication and data resources existing on both sides of the Atlantic
 - Improved co-operation of EU-Brazil academia on advanced computing for HPC application development
 - Improved sharing of information and expertise to solve societal problems with the use of advanced computing
 - Enhanced co-operation of industries in the relevant application areas, in EU and Brazil
 - Improvement in early warning of natural disasters

Instruments, funding level and budget

Research & Innovation Actions, Funding level: 100%, Budget: 2 M€