Joint EU-BR Policy Preliminary Recommendations
for a real sustainable impact on both regions’ economies & societies

- Digitalize the EU-BR Market to enable digital innovation across sectors.
- Define international standards for data sharing to take root out of data from different sectors.
- Increase cross-resiliency of companies, citizens and governments for a stable market development.
- Create cyberinfrastructures for a science to allow science & research to bring value to the market.
- Deepen smart manufacturing industry for higher levels of efficiency & market opportunities across sectors.
- Support for SMEs & start-ups in achieving international visibility and access to counterpart markets.
- Develop smart manufacturing industry for higher levels of efficiency & market opportunities across sectors.
- Create cyberinfrastructures for a science to allow science & research to bring value to the market.
- Support for SMEs & start-ups in achieving international visibility and access to counterpart markets.

Many other recommendations for a strong & matured EU-BR joint transatlantic market.

Are you into EU-BR international cooperation? Fill this survey & have a say in the Final Research & Innovation Priorities Report

ATMOSPHERE INNOVATION RESEARCH PRIORITIES FOR EUROPE & BRAZIL

ATMOSPHERE is now preparing the “Final Research & Innovation Priorities Report”, to directly contribute to the next EU-BR future policy dialogues by presenting challenges and joint EU-BR research innovation opportunities.

Focus the EU-BR 777154 project on cloud computing and to have a say in the latest EU-BR preliminary proposals for a common EU-BR strategy on ICT.

ATMOSPHERE provides an open, hybrid, federated ecosystem for a diverse set of cloud computing services to support research, education and data sharing.

- Transfer of knowledge to a EU ‘Unicorn’ Cloud Computing Startup, namely on McAfee protection in a worldwide topology.
- Employment of trustworthiness and calculator risk level of clouds by Brazilian e-Infrastructure.
- Incorporate EU-BR federated e-Infrastructure to the Brazilian cloud computing reference platform.
- Usage by BR national cloud platform that supports IT professionals, researchers & students in migrating, processing and organizing their applications and data in an easy, secure, reliable way.

ATMOSPHERE helps you increase trustworthiness in your cloud apps.

THE ATMOSPHERE IMPACT ON CLOUD COMPUTING:

- Trust for the development of cloud data access, secure and trustworthy.
- Develop technologies to manage trustworthiness and calculator risk level of cloud providers and cloud data management.
- Support the development of Distributed Trustworthy Data Management Services and Trustworthy Data Processing Services.

Contribute to shape the future of cloud computing development, to have complete information about ATMOSPHERE preliminary proposal for a common EU-BR strategy on ICT.

Stay connected with ATMOSPHERE

Open Source Communities
Software development professionals
ICT Policy Makers
Health data services

ATMOSPHERE supports an entirely new spectrum of trustworthiness cloud service usable by a diverse set of organisations.

THE ATMOSPHERE IMPACT ON CLOUD COMPUTING:
ATMOSPHERE TECHNICAL ASSETS

**DNAT**

DNAT is a platform for tracking usage of data and code in a transparent and robust fashion. It includes descriptive and predictive data analytics techniques to monitor the performance of cloud-based applications. The ATMOSPHERE provides a mechanism for specifying access restriction and persisting metadata and access history using blockchain technologies. DNAT may be used to enforce properties such as confidentiality and revocation by leveraging tools such as SCONE.

**IM-TOSCA**

IM-TOSCA is an Orchestration and DevOps service for deployment of complex application topologies described in TOSCA, which supports the development of data processing services and integrate in cloud-enabled applications. The ATMOSPHERE provides a mechanism for specifying access restriction and persisting metadata and access history using blockchain technologies. IM-TOSCA may be used to enforce properties such as confidentiality and revocation by leveraging tools such as SCONE.

**SCONE**

SCONE is a platform that enables applications that can be attached to the federated networks created by the service. SCONE allows the creation of private networks spanning multiple cloud providers, as well as virtual machines that can be attached to the federated networks created by the service. SCONE may be used to enforce properties such as confidentiality and revocation by leveraging tools such as DNAT.

**Lemonade**

Lemonade is an online platform for tracking usage of data and code in a transparent and robust fashion. It includes descriptive and predictive data analytics techniques to monitor the performance of cloud-based applications. Lemonade may be used to enforce properties such as confidentiality and revocation by leveraging tools such as DNAT.

**ATMOSPHERE USE CASES**

**Application  Developer**

- Using Fogbow to federate networks across cloud providers.
- Virtual Elastic Kubernetes cluster deployed on Fogbow.
- Medical applications with machine learning techniques to support trustworthiness.
- Diagnosis assistance for Rheumatic Heart Disease from echo-cardio images.

**Data Scientist**

- Medical applications with machine learning techniques to support trustworthiness.
- Evaluation of the requirements of GDPR.
- Retinopathy prediction using Inception.
- Joint Solution Architecture McAfee ePO Risk Assessment.

**ATMOSPHERE DEMOS**

- RHO screening & AI: a Trustworthy Medical Imaging Processing service in the cloud.
- Joint Solution Architecture McAfee ePO Risk Assessment.
- Transparency, privacy, and security for confidential data.
- Deployment of LEMONADE and Messe Backend on Fogbow.
- More application use cases!