



D4.1 Infrastructure Set-up, Planning, and Coordination

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This document contains information on core activities, findings, and outcomes of EUBrazilOpenBio project, and in some instances, distinguished experts forming part of the project's Strategic Advisory Board. Any references to content in both website content and documents should clearly indicate the authors, source, organization and date of publication.

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Deliverable Documentation

About the Deliverable

A key defining characteristic of the EUBrazilOpenBio Project is its goal to aggregate disparate compute and data technologies into a coherent and integrated biodiversity research environment – the EUBrazilOpenBio e-Infrastructure. The Infrastructure Set-up, Planning and Coordination Report (EUBrazilOpenBio Project Deliverable D4.1) aims to identify the technical requirements that will be placed on the EUBrazilOpenBio e-infrastructure in order: to meet the implementation requirements for the Use Cases specified in WP2 and to be easily extensible to other related workflow scenarios in the future; to be able to integrate and interoperate with a broad set of data sources and repositories, for example, ecological models, experimental results, or scientific publications; to efficiently support biodiversity software, tools and applications (in particular, those adopted in scenarios typical of the use cases presented in Deliverable D2.1) as well as the chosen middleware technology to manage the infrastructure (as described in Deliverable D3.1).

In addition, the Deliverable aims to identify the available physical compute and storage resources that the project partners are willing to contribute throughout the duration of the project, their availability and allocation between two infrastructures: the production EUBrazilOpenBio e-infrastructure to be made openly available to the Biodiversity Community; and an internal prototyping infrastructure for use by partners for development and testing. Furthermore, subject to the specified requirements described in Deliverables D2.1 and D3.1, the respective configurations of the two infrastructures, their operational status and a roadmap for their evolution will also be presented. Policy and procedures for supporting the integration of further resources (both during the project and beyond) and the definition of progressive operational objectives for the production infrastructure for the duration of the project will also be set out.

Given that during the project, the Use Case requirements are expected to be refined and adjusted as the two communities became aware of each other's capabilities, the need to adapt to technological developments, and changes in availability of resources and their configurations, this deliverable must be considered to be a *living document* in order to reflect in a timely manner all necessary changes. The deliverable has thus been implemented in a form of an online wiki so that it may be updated and improved continuously. This implies that: (i) this document is only intended to provide its readers with a brief description of the Wiki, and (ii) the actual deliverable is available at:

http://wiki.eubrazilopenbio.eu/index.php/Infrastructure_Set-up,_Planning,_and_Coordination_Report

The state of progress with respect to the implementation and deployment of the EUBrazilOpenBio e-infrastructure will be monitored and reported not only through updates of this Deliverable's Wiki page but through the use of an Issue Tracking System (<http://issue.eubrazilopenbio.research-infrastructures.eu/>).

Structure of the Deliverable

The Deliverable's Wiki page is organised in a number of sections:

- After a brief introduction, the following section sets the context for WP4 and classifies the resource types to be integrated to form the EUBrazilOpenBio e-Infrastructures.
- The next section entitled “Resource Requirements for Integration” identifies the need to determine the requirements that will be placed on the e-Infrastructure in order to support the integration of the different types of resources identified in the previous section. A series of questions is presented with the objective to help evaluate what factors and characteristics related to the resources should be taken into consideration. Also available is a list of resources to be supported by the e-Infrastructure.
- The section about “Compute and Storage Resources” presents a survey of physical computational resources to be made available by project partners for the development and deployment of the EUBrazilOpenBio e-Infrastructure.
- The final section on the “Infrastructure Set-up and Coordination Plan” discusses some prerequisites for setting up the two e-Infrastructures and lays out a plan, based on the requirements and priorities defined in Deliverables D2.1 and D3.1, for the deployment of the resources listed previously into the two e-Infrastructures.