



d4SCIENCE

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SUMMARY

One of the objectives of the D4Science-II project is to serve very different and challenging scientific scenarios by providing the communities involved in them with innovative research environments. These environments will materialise in (i) a set of *Virtual Research Environments*, i.e. virtual laboratories providing the community they are conceived for with the set of data sources and facilities needed to accomplish their research tasks, and (ii) a set of *Virtual Organisations*, i.e. organised pool of actors and resources of various genre supporting an highly controlled sharing toward the building of Virtual Research Environments. This deliverable documents the plan leading to the deployment of the expected Virtual Organisations and Virtual Research Environments.

DELIVERABLE DOCUMENTATION

The D4Science-II Ecosystem is expected to operate a number of Virtual Organisations (VOs) and Virtual Research Environments (VREs) to satisfy the needs of its community.

The set of Virtual Organisations and Virtual Research Environments the D4Science-II Knowledge Ecosystem operates as well as their evolution in terms of resources involved and services offered is primarily a consequence of the analysis of the requirements captured through the “DNA5.1 Communities Practices and Requirements”. DNA5.1 deliverable focuses on the needs arising in the INSPIRE, DRIVER, AquaMaps, FCPPS and ICIS scenarios, i.e. the five challenging scientific application scenarios the project selected since its proposal. In addition to that, others scenarios are expected to spring up during the project lifetime as a consequence of the expression of interests coming from *external communities*, i.e. communities that are not part of the D4Science-II consortium and are willing to use the D4Science-II Knowledge Ecosystem services.

This deliverable is dedicated to describe the plan governing the deployment of the expected VOs and VREs. This plan is expected to evolve for the whole duration of the project, i.e. new VOs/VREs will be created, existing VO/VRE are modified by revising the pool of resources they give access to including the data sources and the functionality they support. Because of this, the deliverable has been implemented through a set of dedicated Wiki pages that will be continuously updated and that are published at

[https://service.wiki.d4science-ii.research-infrastructures.eu/service/index.php/Virtual Organisations and Virtual Research Environments Planning](https://service.wiki.d4science-ii.research-infrastructures.eu/service/index.php/Virtual_Organisations_and_Virtual_Research_Environments_Planning)

These Wiki pages are organised as follows:

- one *main page* reporting on the overall plan by providing the reader with a summary view of it including the current state of each activity and a link to the rest of pages forming this deliverable, i.e. the analysis pages and the VO/VRE specific plan pages;
- one *analysis page for each scenario* dedicated to document the examination of the requirements and use cases posed in each scientific application scenario and the resulting actions that have been planned to serve these scenario from a Service Activity point of view, e.g. create a new VO/VRE, make available a new Collection;
- one *plan page for each VO/VRE* dedicated to describe the VO/VRE, document its current state as well as the evolution plan from the Data, Functionality and Software points of view.

No further releases of this report are planned. However, the pool of Wiki pages implementing it will evolve following the evolution trend of the activity it is conceived to document, i.e. the creation and management of VOs and VREs, as well as the activities of the User Communities that during the project operation will raise novel requirements and comments guiding the shaping of the service offered through the D4Science-II Ecosystem.

REFERENCES

- [1] A. Ellenbroek. *Communities Practices and Requirements*. D4Science-II DNA5.1 Project Deliverable. February 2010