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Resources Inventory and Plans

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e-Infrastructures for scientific communities



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SUMMARY

This deliverable provides an overview of the set of resources, namely *data sources* and *tools*, identified by the D4Science user communities as fundamental constituents of their working environments. In particular, such resources are expected to be the building blocks, besides the gCube standard services, of the *Virtual Research Environments* created to support the community needs. Moreover, having such resources available together with a comprehensive description of each can result in a strong cross-community fertilisation; by promoting community specific data sources or tools, new application scenarios successfully decide to exploit these resources.

Besides enumerating and describing such set of resources, the deliverable overviews the procedure implemented to serve the user requests, the actions put in place, and the current status of the procedure for each resource.

This deliverable is the revised version of DSA2.1a produced in April 2008. The aim is to report on the status of activities as in January 2009 as well as to continuously evolve until the end of the project.

DELIVERABLE DOCUMENTATION

The objective of the D4Science Service Activity (SA) is to make available and maintain a stable and powerful infrastructure for supporting the activities primarily of its two user communities, i.e. *Environment Monitoring* and *Fishery and Aquaculture Resource Management*. The user communities will verify the effectiveness of such an infrastructure by evaluating both (i) the new features provided by it and (ii) the amount of resources they are allowed to exploit through the infrastructure. D4Science provides the target user communities with *Virtual Research Environments* implementing organised and coordinated collaborative environments giving seamless access to the resources (data sources and tools) the communities need to accomplish their activities.

The D4Science SA2 'Community Specific Operations' is the work package that, by cooperating with the rest of Service Activities and Joint Research Activities work packages, puts in place an infrastructure equipped with the resources the community declared to need and thus potentially satisfying the expected needs.

To manage such an activity and make public both the process governing it and the set of identified data sources and tools the web site dedicated to the production infrastructure

<https://infrastructure.wiki.d4science.research-infrastructures.eu>

has been equipped with a section titled **Community Resources**¹

https://infrastructure.wiki.d4science.research-infrastructures.eu/production/index.php/Community_Resources

This web site section gathers all relevant information related to the identified data sources and tools since April 2008 including (i) the URL of the resource instance existing independently from D4Science, (ii) the importance grade the resource is ranked in the user scenarios (this is manifested in the 'priority' field), and (iii) a comprehensive human oriented description summarising the main characteristics of each resource. Due to its nature, the site evolved since its creation and is expected to evolve until the end of the project as to reflect the progresses in defining and satisfying the user needs and consequently the needed resources and their deployment status. Being based on Wiki pages, the site allows an active and efficient collaboration between the partners involved, namely (i) the representatives of the user communities are allowed to enrich both the set of identified resources and their description as well as re-rank the resource priority; (ii) D4Science software designers and developers are allowed to consult this information and consequently investigate the resource characteristics and how the existing technology can handle this request or have to be reinforced to handle it; and (iii) D4Science site managers and SA1 and SA2 members (i.e. the principal operators of the infrastructure) are allowed to notify on the operational status of the identified resource. This web site section represents the actual deliverable; this document deliverable has only the role to document it.

The web site section is structured in three main parts:

- Main Page: introduces the D4Science Resources Inventory Plan deliverable by explaining its rationale, how the section is organized, the procedures put in place to handle the user requests of data sources and tools, and giving access to the per-community information;
- EM Resources: the 'Environmental Monitoring' Resources Inventory and Plan page listing the identified resources and reporting on their deployment status;

¹ This section is a "first class citizen" in the left menu to be easily discovered and accessed.

- FARM Resources: the 'Fishery and Aquaculture Resources Management' Resources Inventory and Plan page listing the identified resources and reporting on their deployment status.

In order to keep track of this version of the web site section, a dedicated Wiki page has been produced and is available at

<https://infrastructure.wiki.d4science.research-infrastructures.eu/production/index.php/DSA2.1b>

REFERENCES

- [1] D4Science Production Infrastructure Web Site
<https://infrastructure.wiki.d4science.research-infrastructures.eu>