



**d4SCIENCE**

Project acronym **D4Science**  
Project full title **DIstributed collLaboratories Infrastructure on Grid Enabled Technology 4 Science**  
Project No **212488**

**Deliverable No  
DSA2.1a**

## **Resources Inventory and Plans**

**April 2008**

**SEVENTH FRAMEWORK PROGRAMME  
Research Infrastructures**

INFRA-2007-1.2.2: Deployment of  
e-Infrastructures for scientific communities



## DOCUMENT INFORMATION

---

Project	
Project acronym:	D4Science
Project full title:	<b>DI</b> istributed <b>coL</b> aboratories <b>I</b> nfrastructure on <b>G</b> rid <b>EN</b> abled <b>T</b> echnology <b>4</b> <b>S</b> cience
Project start:	1 <sup>st</sup> January 2008
Project duration:	24 months
Call:	INFRA-2007-1.2.2: Deployment of e-Infrastructures for scientific communities
Grant agreement no.:	212488
Document	
Deliverable number:	DSA2.1a
Deliverable title:	Resources Inventory and Plans
Contractual Date of Delivery:	April 2008
Actual Date of Delivery:	30 <sup>TH</sup> April 2008
Editor(s):	Leonardo Candela
Author(s):	Leonardo Candela, Pasquale Pagano
Reviewer(s):	Pedro Andrade
Participant(s):	CNR, NKUA, BDM-USTRATH, ESA, FAO, WorldFish Center
Work package no.:	SA2
Work package title:	Community Specific Operations
Work package leader:	CNR
Work package participants:	CNR, NKUA, BDM-USTRATH, ESA, FAO, WorldFish Center
Est. Person-months:	1
Distribution:	Public
Nature:	Other
Version/Revision:	1.3
Draft/Final	Final
Total number of pages: (including cover)	6
Keywords:	Production Infrastructure, Environmental Monitoring Resources, Fishery and Aquaculture Resources

## DISCLAIMER

---

This document contains description of the D4Science project findings, work and products. Certain parts of it might be under partner Intellectual Property Right (IPR) rules so, prior to using its content please contact the consortium head for approval. E-mail: [info@d4science.research-infrastructures.eu](mailto:info@d4science.research-infrastructures.eu)

In case you believe that this document harms in any way IPR held by you as a person or as a representative of an entity, please do notify us immediately.

The authors of this document have taken any available measure in order for its content to be accurate, consistent and lawful. However, neither the project consortium as a whole nor the individual partners that implicitly or explicitly participated the creation and publication of this document hold any sort of responsibility that might occur as a result of using its content.

This publication has been produced with the assistance of the European Union. The content of this publication is the sole responsibility of D4Science consortium and can in no way be taken to reflect the views of the European Union.

The European Union is established in accordance with the Treaty on European Union (Maastricht). There are currently 27 Member States of the Union. It is based on the European Communities and the member states cooperation in the fields of Common Foreign and Security Policy and Justice and Home Affairs. The five main institutions of the European Union are the European Parliament, the Council of Ministers, the European Commission, the Court of Justice and the Court of Auditors. (<http://europa.eu.int/>)



**D4Science is a project partially funded by the European Union**

## SUMMARY

---

This deliverable provides an overview of the set of resources, namely *data sources* and *tools*, identified by the 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.

## 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 judge 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 will provide 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, will put 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 enriched with a section titled **Community Resources**<sup>1</sup>.

This web site section gathers all relevant information related to the identified data sources and tools 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 is expected to evolve during the project lifetime 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 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 real deliverable; this document deliverable has 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;
- FARM Resources: the 'Fishery and Aquaculture Resources Management' Resources Inventory and Plan page listing the identified resources and reporting on their deployment status.

---

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

## REFERENCES

---

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