



d4SCIENCE

D4Science-II

Data infrastructure ecosystem for science

Start date 1 October 2009

Project duration 24 months

Total budget 5.44 million €

Funding from the EC 4.3 million €

■ Project description

D4Science-II will develop technology to enable **interoperation of diverse data e-Infrastructures** that are running autonomously, thereby creating e-Infrastructure Ecosystems that can serve a significantly expanded set of communities dealing with multidisciplinary challenges. Furthermore, D4Science-II will bring together several scientific e-Infrastructures established in the areas of **biodiversity, fishery resources management, high energy physics**, etc., to set up a prototypical instance of such Ecosystem. This will support several scientific scenarios that are distinct but also feed into and enrich each other. Finally, possibly in collaboration with appropriate international bodies and initiatives, D4Science-II will take steps to ensure sustainability of the Ecosystem, some of them based on and synchronized with the dissemination, training and standardization activities of the project.

Technologically, D4Science-II constitutes a continuation of the **DILIGENT** and **D4Science** projects, which have initiated an effort towards using existing network, grid, and repository infrastructures to deploy on top of them a pan-European research e-Infrastructure that will enable unlimited generation and dissemination of scientific knowledge. As the next step towards this goal, D4Science-II will transform the current, operational D4Science e-Infrastructure into the linchpin of an e-Infrastructure Ecosystem, holding together and mediating between all participating e-Infrastructures through programmatically-available interoperability services.

The D4Science-II Ecosystem will include among others, the GENESI-DR and DRIVER repository e-Infrastructures, and important thematic repositories maintained by international organisations, e.g., INSPIRE and AquaMaps. The project will create Virtual Research Environments offering significantly enhanced services to scientist without incurring high development and maintenance costs. }

www.d4science.eu

