

Building a Networkof European Scientific Repositories



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DRIVER Motivation

- Scholarly communication changes towards distributed provision of text, data and services
- Repositories are thought as a saviour in this development
- An infrastructure supporting distributed repositories and services is needed





DRIVER Objectives

- Organisational structure for repositories
 - e.g. the "Confederation"
- Improving quality and standards in local rep.
 - e.g. validation procedures
- Building a distributed runtime system
 - e.g. service and data sharing
- Target Groups
 - Repository Managers
 - Service Providers
 - Information System Executives





The DRIVER Initiative

- ORIVER-I 6/2006 11/2007
 - Organisational Models and Technical Test-Bed

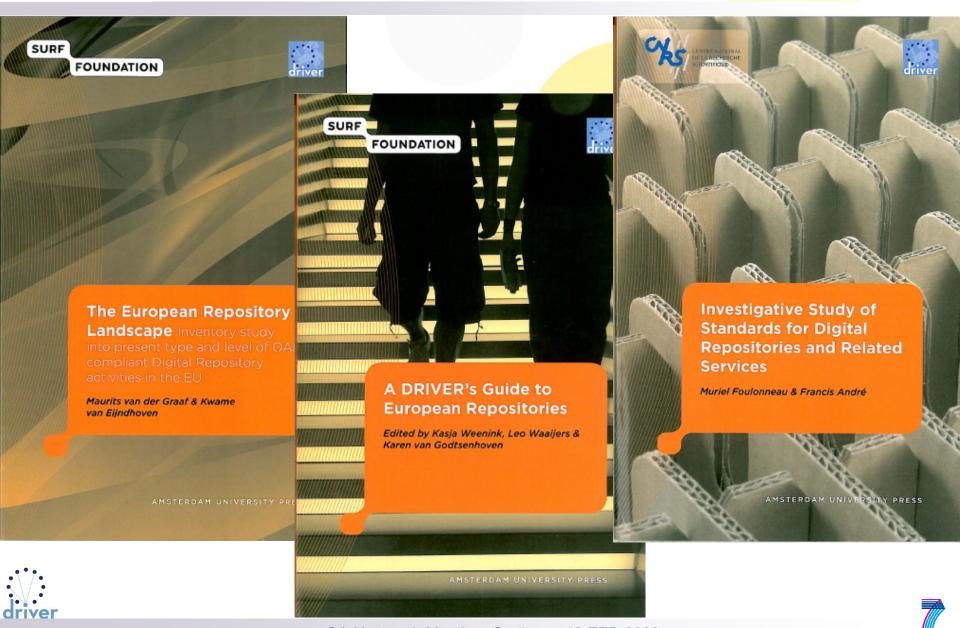
- ORIVER-II 12/2007 11/2009
 - Running Organisation and Production Infrastructure

- DRIVER-Confederation 2010ff
 - Operations Office and Technical Deployment





Some Results: Studies



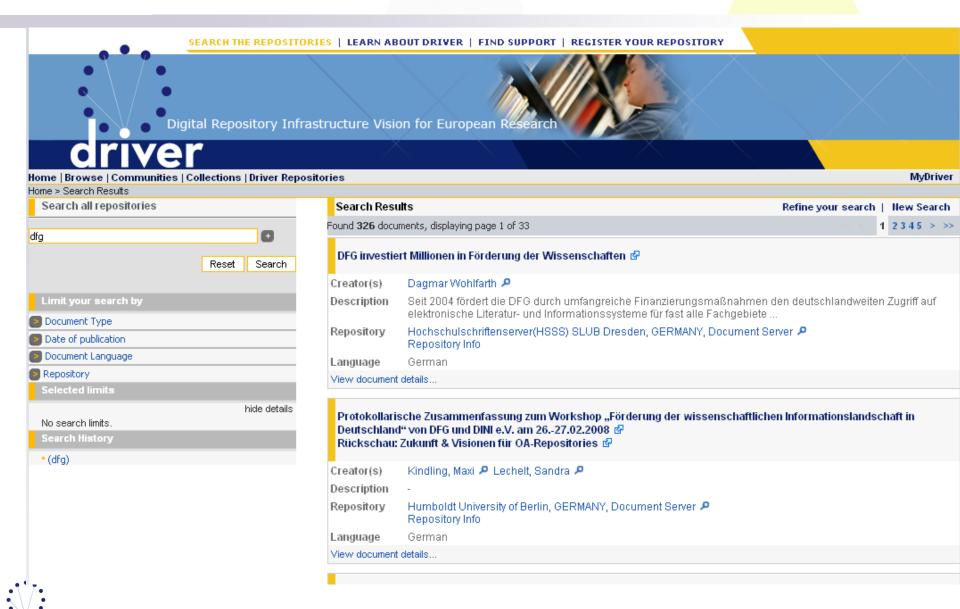
Some Results: A Portal







Some Results: A Search





Some Results: Repository Registration



Validate your repository

Even when accepted standards, like Dublin Core and OAI-PMH, are being applied, local interpretation often compromises data quality and technical interoperability. Preliminary testing indicates that, while very few repositories are-non harvestable, only a handful deliver 100% valid XML - the result is that only limited information is made available for searching. The DRIVER team has developed a web based tool, whose task is to check the degree of conformance with the DRIVER guidelines (v 1.0) and the OAI-PMH protocol.

Find more about the validation process...

DRIVER Guidelines

The DRIVER consortium has developed a set of Guidelines for Content Providers, which aim to improve the quality of available metadata and assist DRIVER in integrating and simplifying the use of these metadata by the DRIVER search portal and other service providers. Managers of new repositories may use them to define their local data-management policies; managers of existing repositories may take advantage of them in order to take steps towards improved services; developers of repository platforms in order to add supportive functionalities in future versions.

Get more information on repository managers issues...

Register your repository

You may request to register your repository with DRIVER, so that its contents are harvested periodically, indexed into the DRIVER platform and presented in the DRIVER European Repository search portal. In this way, publicly funded research deposited in your repository can achieve wider distribution - to be read, used and cited more widely by the global research community. Repositories successfully harvested by DRIVER are entitled to display the DRIVER logo on their library website, to certify quality and global networked status of their content.

Find more about the registration procedure...

Explore the European landscape

Within the DRIVER project, three strategic studies on digital repositories and related topics have been carried out. They provide an excellent survey for best practices, methodologies and technologies used throughout the European data space.

- Inventory study into the present type and level of OAI compliant Digital Repository activities in the EU
- A DRIVER's Guide to European Repositories; Five studies of important Digital Repository related issues and good practices
- The Investigative Study of Standards for Digital Repositories and Related Services



@ 2007 - 2009 DRIVER - Digital Repository Infrastructure Vision for European Research



Some Results: Guidelines



DRIVER guidelines 2.0

Guidelines for content providers - Exposing textual resources with OAI-PMH

[November 2008]



[Guidelines for Repository Managers and Administrators on how to expose digital scientific resources using OAI-PMH and Dublin Core Metadata, creating interoperability by homogenising the repository output.]

- Build on knowledge from past & current IR projects (EU)
- 26 actively involved contributors (experts and repository managers) from 8 countries.
- Practical answers on how to:
 - Improve full-text access
 - Standardize metadata quality
 - Create a reliable infrastructure for permanent identification, resolution, traceability and storage
 - Resolve semantic and classification issues





Some Results: Support structures



Here you can access information and support relating to Open Access and digital repositories. Digital repositories can help make research information more widely available, more widely used, and improve the process of research itself. Information of interest to specific user groups is available as well as information about the DRIVER project.

DRIVER II, a project funded by the 7th Framework Programme of the European Commission, is the continuation of the DRIVER project. DRIVER II will extend the geographical coverage step-by-step and will move from a test-bed to a production-quality infrastructure. As part of DRIVER II this site is being revised to reflect new developments and the wider remit of the DRIVER II project. D-NET, a key development of DRIVER II is now available for download from the Learn About DRIVER website.

This site holds details on the state of development of repositories in different European countries and how you can join this growing European network.

You may share information and news from your own country via the DRIVER Wiki and can benefit from the experience of others, and share your experiences, through the Mentor Service.

You can also want to suggest events or announce news on this site that other visitors may find useful.

For access to DRIVER Tools, DRIVER Search and to access and re-use the DRIVER Infrastructure please go to the DRIVER Portal http://www.driver-community.eu/.

Last updated: 14-Nov-2008

Links & Publications

DRIVER Wiki

Contact Us

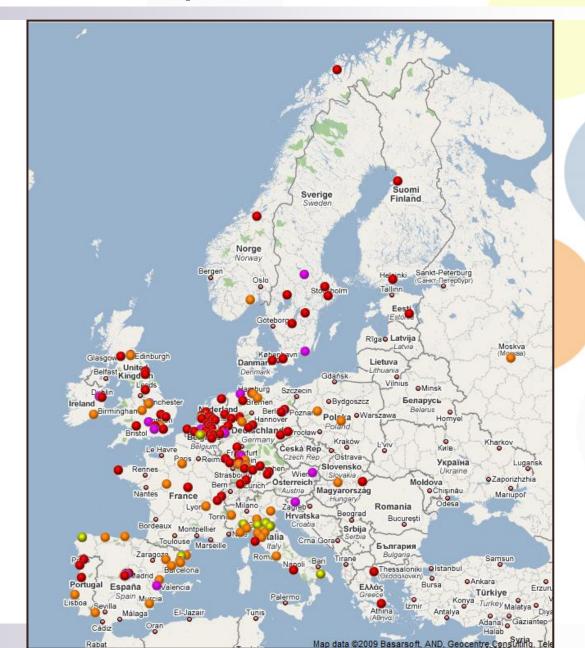


Some Results: Repositories

185+ *harvested repositories*

21 countries

856,264+ *documents*





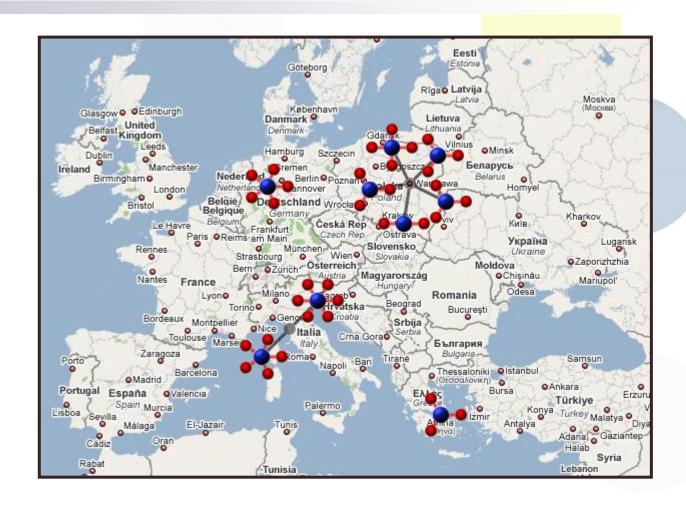


Some Results: Service-Oriented-Arch.

9hosting
nodes

25+Functionality typologies (services)

36 service Instances

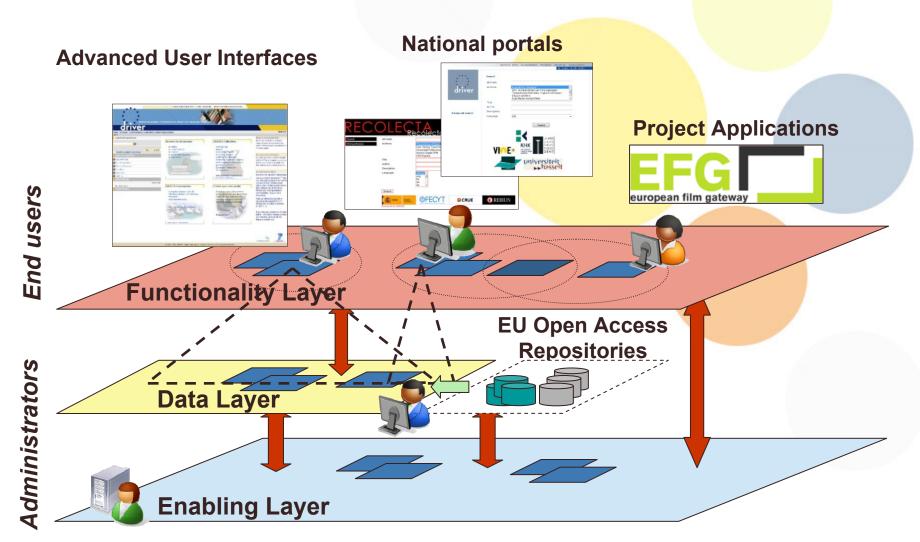


3 applications: DRIVER Main, Belgium, Spain-Recolecta





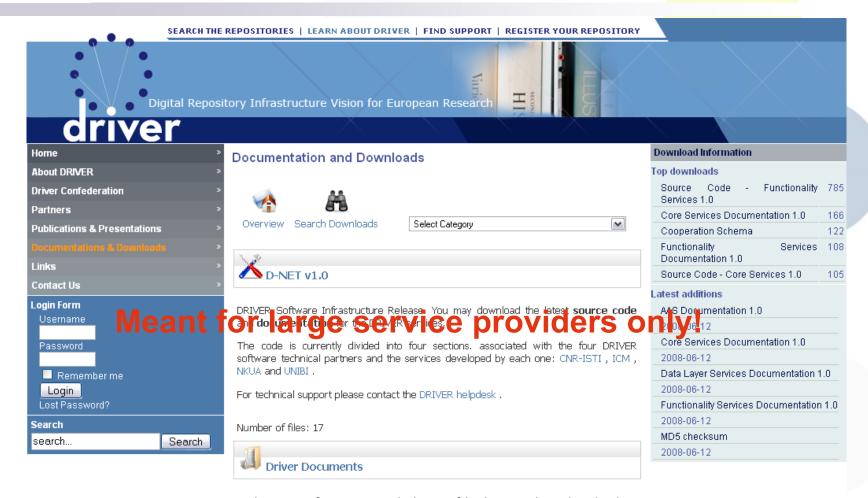
Some Results: Runtime-System & Hosting







Some Results: A software



As the DRIVER infrastructure is evolved, some of the documents (reports) produced are becoming public and available for download. Check this section for new documents.

Also, you may want to check out the **BELIEF library** to access all current DRIVER **AND** other related project documents.

Number of files: 18





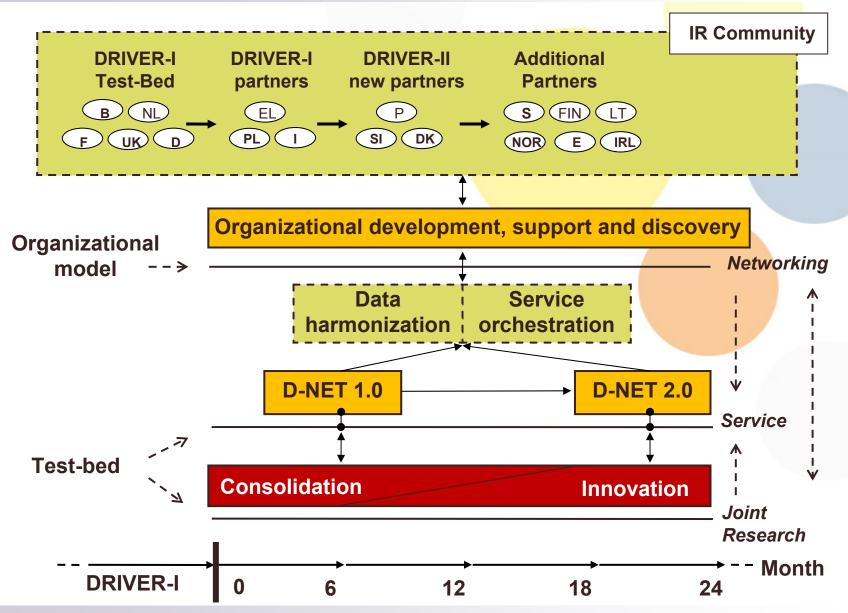
Current Work: DRIVER-II

- Networking
 - Confederation with who-is-who advisory board
 - Outreach: LIBER, SPARC, US, JAPAN etc...
- Consolidation
 - DRIVER-I
 - Services packaged and performing in production quality
- Enhancement
 - DRIVER-I Services
 - Improved indexing and data aggregation functionalities
 - DRIVER-II Services
 - Enhanced publication management and functionality

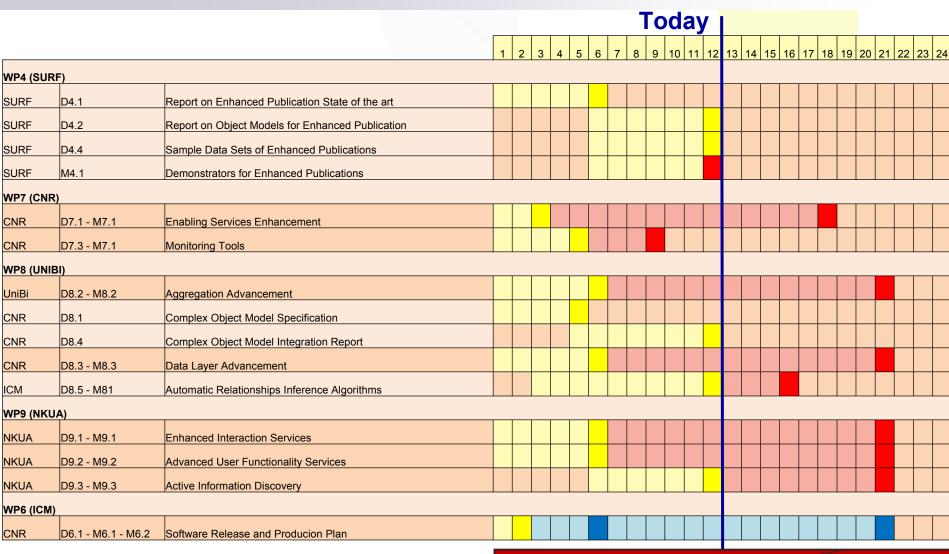




DRIVER-II - Plan



DRIVER-II: Status







Deliverables



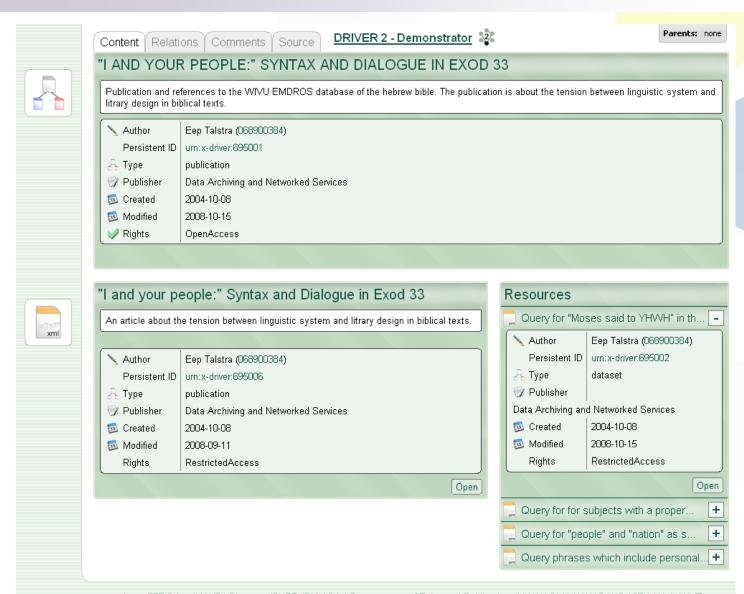
Milestones

Consolidation

Innovation



Outlook: Enhanced Publications







Outlook: Enhanced Publications

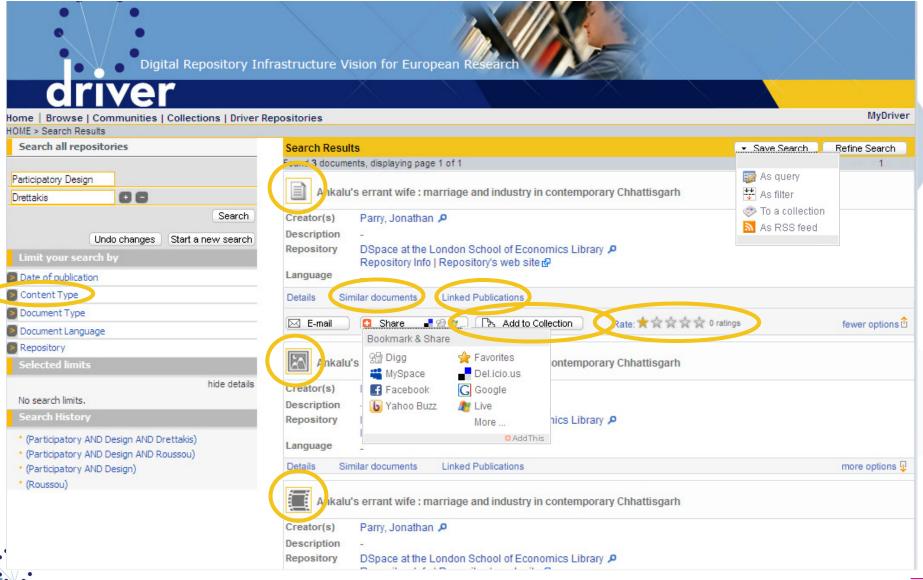
Based on OAI-ORE





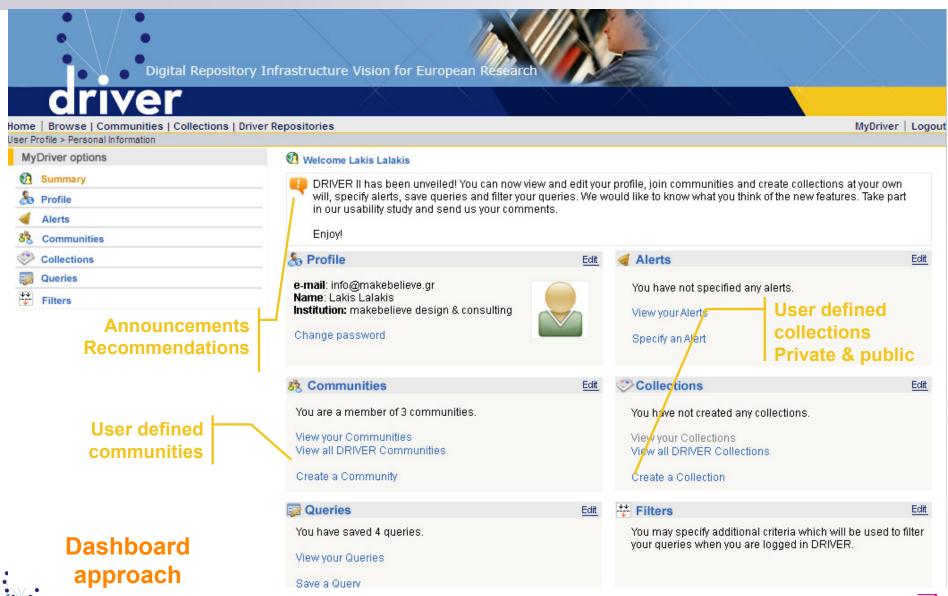


Outlook: New Functionality



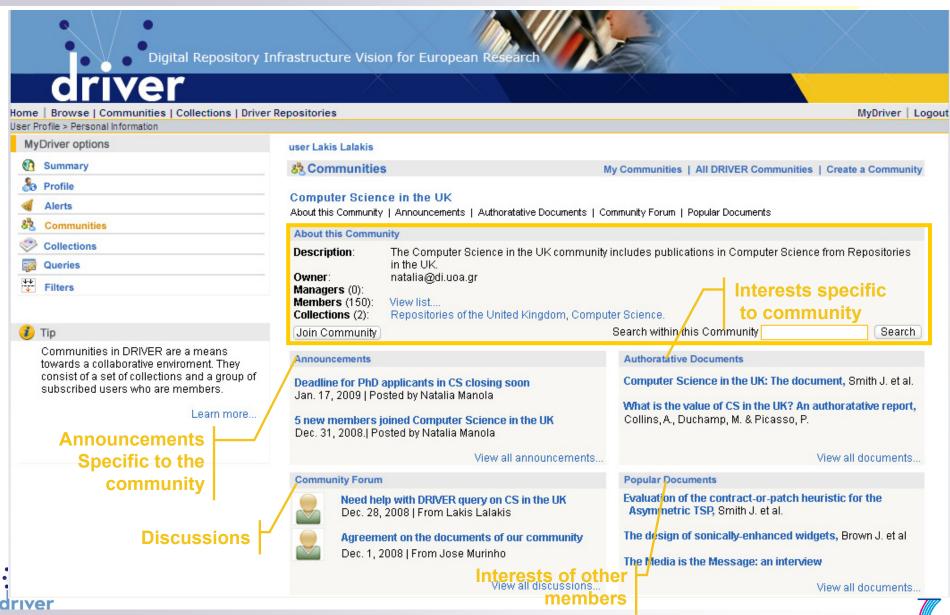


Outlook: New Functionality





Outlook: New Functionality



Relation OAN-DRIVER

- Cooperation agreement signed in 2008
 - Humboldt, Göttingen, Osnabrück, Bielefeld
 - OA-N prepares German Data for DRIVER
 - DINI/DRIVER compliance
 - Alignment and exchange in software development







Thanks



