
Open Access and digital repositories: the role of the DRIVER project

*Czech Republic
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Presentation Structure

- Open Access (introduction)
- Institutional Repositories
- Developments in Europe
- DRIVER
- Institutional repository networks



Open Access

- ...any individual user, anywhere, who has access to the Internet, may link, read, download, store, print-off, use, and data-mine the digital content of an article, book chapter or any other form of research output
- The **Open Access movement**: social movement in academia, dedicated to the principle of Open Access, i.e. to information sharing for the common good.
- Open Access movement history:
1960s => 1990s with the advent of the Digital Age



Arguments in support of Open Access

- Scholars write journal articles because advancing knowledge in their fields advances their careers
- Open Access increases readership
- Open Access increases the visibility of the University, reduces expenses for journals, and advances the mission to share knowledge
- Taxpayers have a right to access to the results of the research funded by their taxes
- Open Access does not affect peer review



Progress in summary...

- **2002:** The Budapest Open Access Initiative: *The first major international statement on Open Access*
- **2003:** The Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities
- **2004:** European Commission inquiry into the system for publishing European research, especially rapidly rising journal prices and open access research findings
- **2006:** European Commission report calling for an Open Access mandate to publicly-funded research
- **2007:** The European Research Advisory Board (EURAB) recommended an Open Access mandate for EU-funded research
- **2007:** The European Commission adopted an FP7 Grant Agreement which requires grantees to submit electronic copies of their journal articles to the EC and permits the EC to redistribute them online



Berlin Declaration in Support of Open

Access (<http://www.zim.mpg.de/openaccess-berlin/berlindeclaration.html>)

22 October 2003

- 'Our mission of disseminating knowledge is only half complete if the information is not made widely and readily available to society.'

- Signatories should promote open access by
 - encouraging researchers/grant recipients to publish in open access.

 - encouraging the holders of cultural heritage to support open access by providing their resources on the Internet.

 - developing means to evaluate open access contributions and online-journals in order to maintain the standards of quality assurance and good scientific practice.

 - advocating that open access publication be recognized in promotion and tenure evaluation.



Open Access

- does not affect peer-review
- helps guard against plagiarism
- not proposed as a replacement for normal publication process
- is a working, practical system that is already in place



Institutional Repository

- A digital place to store the intellectual output of a research institution
- Broadly, aims are:
 - storage and preservation of institutional digital assets, including unpublished or otherwise easily lost research material (e.g. theses)
 - global, free visibility for an institution's scholarly research through Open Access
- Interesting study on the Citation Impact of Open Access Articles: http://citebase.eprints.org/isi_study



Benefits for...

○ ...the researcher

- Provide a central archive of their work
- Improved discovery and retrieval
- Increase the dissemination and impact of their research

○ ...the institution

- Increases visibility and prestige to funding bodies and the global research community
- Can help attract new staff and students.
- Can act as an aid in research assessment exercises

○ ...society

- Allows access to research findings



Publication and deposition

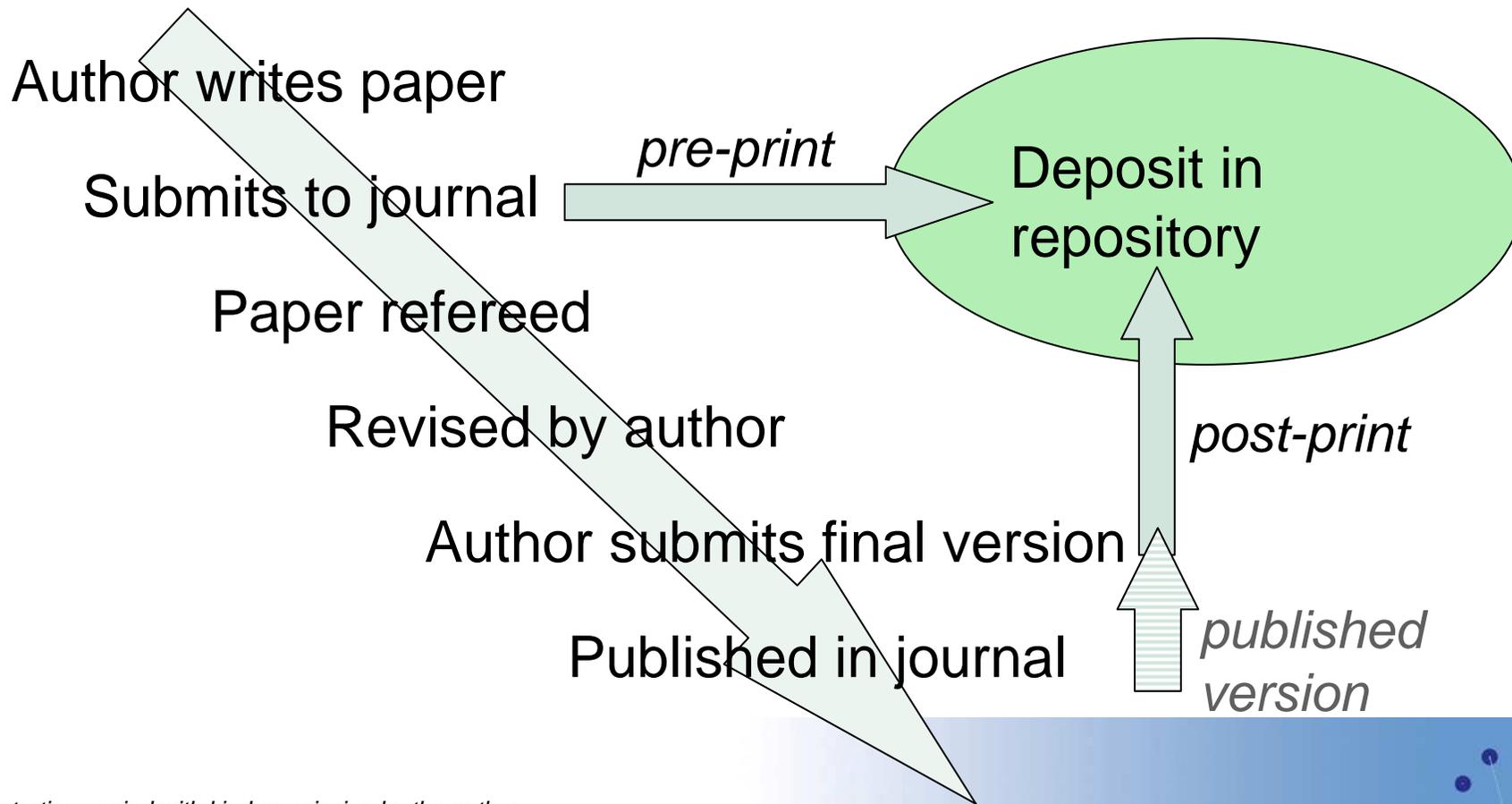


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Two routes to open access

- by depositing a copy of an article in an open access repository
- by publishing in an Open Access journal: journals will not charge subscriptions or fees and look to other sources to fund peer-review and publication (e.g. publication charges)



Institutional Repositories

Promoting self archiving:

- Set up and maintain institutional repository
- Advocate Open Access and help researchers deposit their research papers
- Implement open access policies



Open Access journals

◉ Directory of Open Access Journals:

<http://www.doaj.org/>

“This service covers free, full text, quality controlled scientific and scholarly journals. We aim to cover all subjects and languages. There are now **4335** journals in the directory. Currently **1643** journals are searchable at article level. As of today **309009** articles are included in the DOAJ service.” (September 2009)



Institutional Repositories

OpenDOAR (Directory of Open Access Repositories)

www.opendoar.org

- An authoritative directory of academic open access repositories
- List of 1500 repositories

Czech Republic: 4

- **Digital Library of the University of Pardubice** (<https://dspace.upce.cz/>)

- **Vysoká škola báňská-Technická univerzita Ostrava (VŠB Technical University of Ostrava)** (<http://dspace.vsb.cz/>)

- **INFORM Conference Proceedings**

(http://database.aipberoun.cz/aip_standalone/engine/aip_inforum.cg4?MainPage==../wt_inforum/inforum_en_combined.htm)

- **INFORUM 2006 – Proceedings**

(<http://www.inforum.cz/archiv/inforum2006/english/sbornik.php.htm>)

- Can be used to search across content in all listed repositories
- Gives information on repository policies (copyright, re-used of material, preservation, etc.)
- Institutional mandates: <http://www.eprints.org/openaccess/policysignup/>



Developments in Europe

- SHERPA (www.sherpa.ac.uk)
- NARCIS (www.narcis.info/index/tab/publication/)
- HAL (hal.archives-ouvertes.fr)
- EC funded OA projects
(DRIVER - www.driver-community.eu)
- ↑ Number of conferences discussing OA
- Subject repositories
 - arXiv - 556,387 e-prints in Physics, Mathematics, Computer Science, Quantitative Biology, Quantitative Finance and Statistics (<http://arxiv.org/>) (September 2009)
 - UKPMC – over 950,000 full-text articles (<http://ukpmc.ac.uk/>) (September 2009)

DART Europe – E Thesis portal

- www.dart-europe.eu/
- “a partnership of research libraries and library consortia who are working together to improve global access to European research theses”
- DART-Europe is endorsed by LIBER (Ligue des Bibliothèques Européennes de Recherche), and it is the European Working Group of the Networked Digital Library of Theses and Dissertations (NDLTD).
- info@dart-europe.eu
- For more details about contributing metadata to the DART-Europe E-theses Portal, visit:
<http://www.dart-europe.eu/contributors>



Examples of funding bodies in support of OA policies (www.sherpa.ac.uk/juliet/)

○ **European Research Council**

Grant conditions require peer-reviewed research outputs to be made freely available to the public in full at the earliest possible date. These aims can be achieved either by archiving publications in an Open Access repository, or by publishing in an Open Access publication.

○ **Research Councils, UK**

Six of the seven UK research Councils require deposit of papers in freely accessible electronic repositories.

○ **National Institutes of Health (NIH), US**

Grant recipients are required to deposit electronic copies of their peer-reviewed manuscripts into PubMed Central no later than 12 months after publication in a journal.

Approximately 80,000 papers each year could be made freely available as a result of the policy



EUROPE

- EUROHORCS (www.eurohorcs.org/)
- A study by the European Commission concludes that ‘...policies should make sure that the market is sufficiently competitive and ‘dissemination-friendly’. In particular, they should address the need to:
 - enhance access to research output;
 - prevent strategic barriers to entry and to experimentation.

- Recommendation A1. **Guarantee public access to publicly-funded research shortly after publication**
 - Research funding agencies ... should promote and support the archiving of publications in open repositories, after a ... time period to be discussed with publishers. This archiving could become a condition for funding.
 - The following actions could be taken at the European level: (i) Establish a European policy mandating published articles arising from EC funded research to be available after a given time period in open access archives, and (ii) Explore with Member States and with European research and academic associations whether and how such policies and open repositories could be implemented.



European Commission Study

(http://europa.eu.int/comm/research/science-society/pdf/scientific-publication-study_en.pdf)

- The EC hosted a conference on scholarly communication in Brussels in February 2007.
- Before the meeting a SPARC Europe-sponsored petition collected 22,000 signatories calling on the Commission to adopt the study's recommendations. (<http://www.ec-petition.eu/>)
- The conference was inconclusive, but the Commission has issued a 'Communication' which includes:
 - A commitment to include open access publishing costs in EC grants
 - The promise of specific guidelines to be issued, within specific programmes, on the publication of articles
 - in open repositories.
 - Significant funding for repository infrastructure and digital preservation
 - Funding of research on publication business models and on the scientific publication



European University Association

http://www.eua.be/fileadmin/user_upload/files/Policy_Positions/Recommendations_Open_Access_adop

[pted by the EUA Council on 26th of March 2008 final.pdf](#)

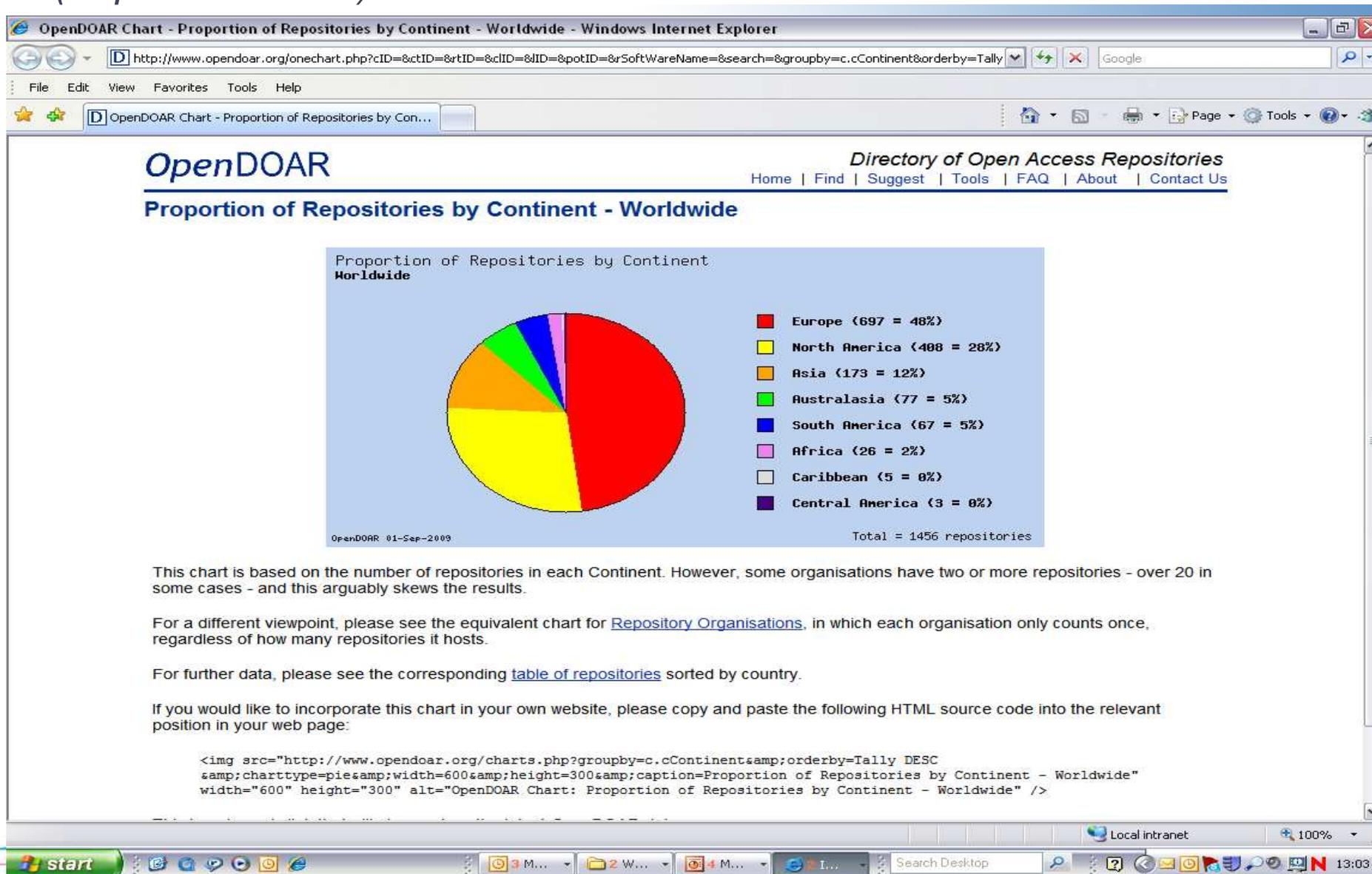
Recommendations for University Leadership

- Universities should develop institutional policies...
- The basic approach ...should be the creation of an institutional repository or participation in a shared repository..
- **University institutional policies should require that their researchers deposit (self-archive) their scientific publications in their institutional repository upon acceptance for publication.**
- ...It should be the responsibility of the university to inform their faculty researchers about IPR and copyright management...
- University institutional policies should explore also how resources could be found and made available to researchers for author fees to support the emerging "author pays model" of open access.



Proportion of Repositories by Continent

(September 2009)



DRIVER

○ DRIVER Vision:

All research institutions in Europe and worldwide make their research publications openly accessible through institutional repositories



DRIVER - Background

- Duration: 24 months
- Budget: € 2.7m
- Timeplan: 12/'07 -11/'09
- Main Deliverables:
 - Digital Repository Infrastructure
 - European Digital Repository Confederation
- Funded by the European Commission, “Research Infrastructure” Unit, FP 7

○ Consortium Partners

- National and Kapodistrian University of Athens (GR)
- Bielefeld University (GE)
- Consiglio Nazionale Delle Ricerche (IT)
- STICHTING SURF (NL)
- SHERPA, University of Nottingham (UK)
- UKOLN, University of Bath (UK)
- Uniwersytet Warszawski (PO)
- Universiteit Gent (BE)
- Goettingen University(GE)
- Danish Technical University (DK)
- Universidade do Minho (PT)
- Narodna in Univerzitetna Knjiznica (SLO)

Adapted from original presentation by Dr Norbert Lossau, DRIVER Scientific Coordinator, delivered at SPARC Conference, Baltimore 2008



DRIVER & Open Access Movement

Free and unrestricted access to sciences and human knowledge representation worldwide

(Berlin Declaration, October 2003)

- Needs a global, interoperable, trusted, long-term repository infrastructure
- DRIVER has built the nucleus of this infrastructure

Adapted from original presentation by Dr Norbert Lossau, DRIVER Scientific Coordinator, delivered at SPARC Conference, Baltimore 2008



DRIVER Confederation

- Organisation of Digital Repository Infrastructure Providers:
A Confederation of Repository Communities
- Initial focus on Europe, but with international alliances from
the beginning
- Members and strategic partners invited:
 - European and international repository communities
 - Subject based communities
 - Repository system providers
 - Service providers
 - Political, research, funding organisations

Adapted from original presentation by Dr Norbert Lossau, DRIVER Scientific
Coordinator, delivered at SPARC Conference, Baltimore 2008



DRIVER Confederation Objectives

- Implementation of Open Access!
- Formal establishment of an (European) digital repository community; maximise visibility of national repository activities and research output
- Partner for (European) organisations such as EUA, EuroHORCs and others
- Support national political and organisational repository developments

Adapted from original presentation by Dr Norbert Lossau, DRIVER Scientific Coordinator, delivered at SPARC Conference, Baltimore 2008



How does DRIVER relate to international repository communities?

- DRIVER liaises with institutions and initiatives from majority of European countries and also the U.S., Canada, Latin America, China, Japan, India and Africa
- DRIVER has signed MoUs with SPARC Europe, LIBER, eIFL, Recolecta Spain, OA-Netzwerk Germany, DRF Japan and Eurodoc

Adapted from original presentation by Dr Norbert Lossau, DRIVER Scientific Coordinator, delivered at SPARC Conference, Baltimore 2008



COAR- *Confederation of Open Access Repositories*

○ Launched during Open Access Week 2009 at DRIVER summit, 20 October 2009, Ghent, Belgium

○ Aim

“COAR is an international not-for-profit association that aims to promote greater visibility and application of research outputs through global networks of Open Access digital repositories.”



COAR – Confederation of Open Access Repositories

Objectives

- the support and coordination of global collaborative efforts towards high-quality Open Access data and interoperable systems;
- acting as the reference point for repository standardization efforts, the repository community platform, and to be the venue for discussion and meetings working towards streamlining OA repository developments;
- advocacy of consistent policy formulation on institutional repository development;
- development and support of interoperable standards for national aggregation of research content in OA repositories;
- supporting the formalisation of OA mandates by research funders and institutions;
- promoting an increased rate of self-archived deposit with as little burden as possible on the researcher;
- maintenance, development and growth of the DRIVER Confederation as one of the established technical, functional and organisational cross-country networks of OA repositories;
- offering the international framework for further advanced technical and functional developments in the context of global digital repository infrastructures;
- promoting the interoperable development of equivalent local regional national and international infrastructures that subscribe to the COAR vision.



COAR – Confederation of Open Access Repositories

○ **Joining COAR**

- Launched during Open Access Week 2009. If you are interested in participating in COAR, please contact

Dr Dale Peters (peters@sub.uni-goettingen.de ,
cc: lossau@sub.uni-goettingen.de) to register your interest in
becoming a member of COAR.





General support
National networks
Guidelines
Open Access

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Support

Learn about
DRIVER

Search the
repositories portal

Register your
repository



Digital Repository Infrastructure Vision for European Research

Driver is a collaboration, co-funded by the European Commission, to build a network of freely accessible digital repositories with content across academic disciplines.



DRIVER | Home - Windows Internet Explorer

http://www.driver-repository.eu/ eIFL.net

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Digital Repository Infrastructure Vision for European Research

Home > Latest News

- [Softver za infrastrukturo DRIVER je že dosegljiv!](#)
- DRIVER infrastructure software release is available now!
- Lancering D-NET: unieke Europese portal voor wetenschappelijk onderzoek

DRIVER: Networking European Scientific Repositories

Considered the largest initiative of its kind in helping to enhance repository development worldwide, DRIVER is a multi-phase effort whose vision and primary objective is to create a cohesive, robust and flexible, pan-European infrastructure for digital repositories, offering sophisticated services and functionalities for researchers, administrators and the general public.

DRIVER has established a network of relevant experts and Open Access repositories. DRIVER-II will consolidate these efforts and transform the initial testbed into a fully functional, state-of-the art service, extending the network to a larger confederation of repositories. DRIVER is integral to the suite of electronic infrastructures that have emerged in the worldwide GÉANT network and is hence funded under the e-Infrastructures call of the European Commission's 7th framework programme. It aims to "... optimise the way the e-Infrastructure is used to store knowledge, add value to primary research data and information making secondary research more effective, provide a valuable asset for industry, and help bridging research and education."

The objectives of DRIVER-II, the second phase of the project, include efforts to expand, enrich, and strengthen the results of DRIVER, in the following areas:

- strategic geographic and community expansion by means of the DRIVER confederation
- establish a robust, scalable repository infrastructure accompanied by an open source software package D-Net
- broader coverage of content through the use of enhanced publications
- advanced end-user functionality to support scientific exploration of complex digital objects
- larger outreach and advocacy programmes
- continued repository support
- guidelines for interoperability in the larger European digital library community
- Open Access to European research materials

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http://validator.driver.research-infrastructures.eu/validatorWeb/ eIFL.net

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Home

Welcome to the DRIVER repository registration site.

On these pages you will be able to register your repository with DRIVER and use our repository validation tool, designed for repository managers to test the (technical) quality of their repository. If you want to learn more about specific repository management topics please have a look at www.driver-support.eu. If you need assistance or have any further questions please contact the DRIVER helpdesk.

Learn about the 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 simplifying the use of these metadata by service providers. Furthermore, the use of the DRIVER Guidelines provides orientation for managers of new repositories to define their local data-management policies, for managers of existing repositories to take steps towards improved services and for developers of repository platforms to add supportive functionalities in future versions. The Guidelines will help your repository integrate into the DRIVER infrastructure.

The DRIVER Guidelines have been developed by DRIVER partners and other European experts in order to ensure a degree of uniformity across all repositories in the European DRIVER platform. DRIVER - considered the largest initiative of its kind in helping the enhancement of repository development - has benefits for the global repository community and is expected to influence the development of repositories and associated services worldwide.

- [DRIVER Guidelines Overview](#)
- [DRIVER Guidelines FAQ](#)
- [DRIVER Guidelines Implementation Specifics \(Annex\)](#)

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

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DRIVER Search portal - Windows Internet Explorer

http://search3.driver.research-infrastructures.eu/webInterface/simpleSearch.do;jsessionid=B12AD3D4D4D8E0A37D7C719018780B27?action=load

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DRIVER compliant repositories

Limit your search by

- Document Type
- Date of publication
- Document Language
- Repository
- Community
- Collection

Selected limits hide details

No search limits.

Search History

Browse for documents

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- European Countries
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- Computer Science in the UK
- DINI Repositories and Database Research
- Molecular Biologists

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Create your own profile

Create your account to receive personalized services. Registered users can filter their searches or receive alerts based on their individual research interests.

Register [here](#).

News & Announcements

Features more than 600,000 Open Access documents from over 110 European repositories in 25 languages.

For repository managers

Is your repository registered with DRIVER? If not, contact us via our helpdesk and we will guide you through the registration process.

For service providers

Develop the repository landscape! Are you a technical person? Then you may want to have a look at the current DRIVER infrastructure deployment, or take a peek at two test applications running on the driver infrastructure for specialized communities: Belgium and Recolecta.

Visit our [official project site](#) to download the latest DRIVER infrastructure software release D-NET v.1.0

If you have any questions or need further information please contact our [helpdesk](#) and we will be

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http://www.driver-support.eu/ eIFL.net

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Welcome to the DRIVER Support website

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

Local intranet 100%

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Institutional repository networks

- Create a network (e.g SHERPA – www.sherpa.ac.uk)
- Build and maintain a network (cultural change)
- Consider practical issues
- Work on awareness and seek support from key stakeholders: researchers, research funders, institutional managers and colleagues/ peers



Useful Links:

- DRIVER: www.driver-community.eu
- SHERPA: www.sherpa.ac.uk
- RoMEO: www.sherpa.ac.uk/romeo
- JULIET: www.sherpa.ac.uk/juliet
- OpenDOAR: www.opendoar.org
- Peter Suber: www.earlham.edu/~peters/fos/overview.htm
- OAster: www.oaister.org
- BASE: www.base-search.net
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- SPARCEurope: www.sparceurope.org
- Institutional Repository Search: www/intute.ac.uk/irs
- The DART Europe E Theses portal: www.dart-europe.eu/



- Sophia Jones
- Centre for Research Communications, University of Nottingham, UK
- sophia.jones@nottingham.ac.uk

- DRIVER II Project
- <http://www.driver-community.eu/>

- Supported by European Commission



- Available for re-use -

