

Open Access  
Infrastructure  
for Research in Europe



# OpenAIRE



Digital Repository Infrastructure for European Research



# Open Access Infrastructures for European Research

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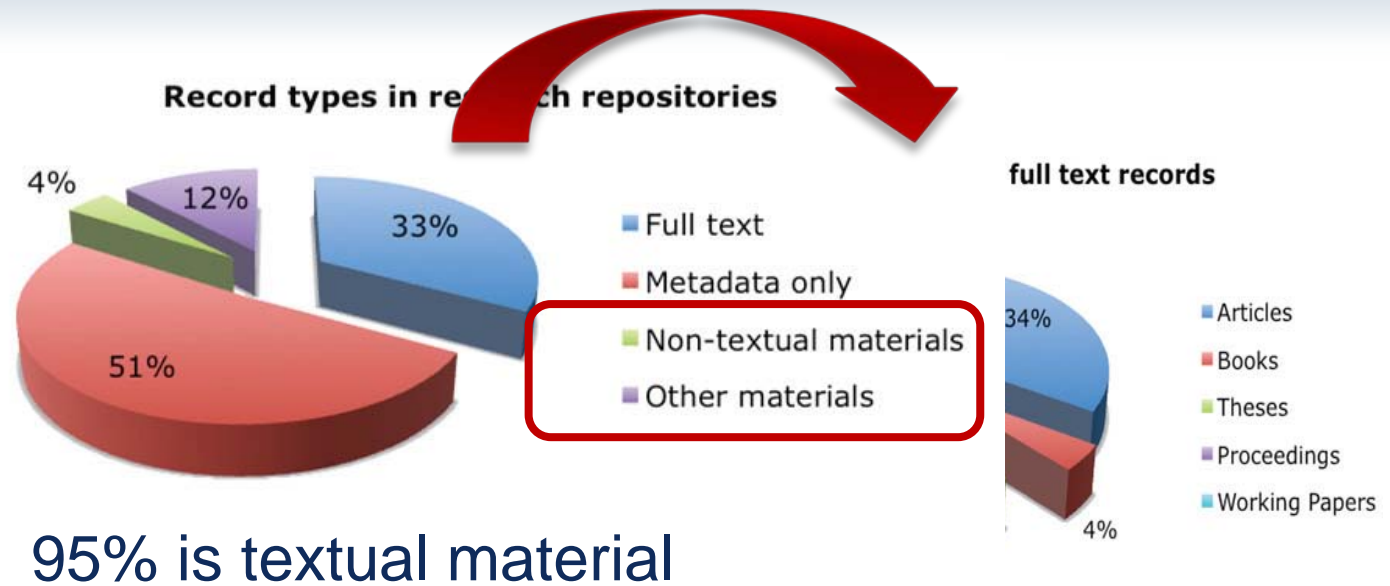
# Open Access - Research publications & data

- Open Access supported by repositories
  - Institutional (1297, 81% world wide)
  - Subject (207, 13% world wide)
  
- Repositories in Europe 772 (48%)
  
- Primary data
  - Disciplinary databases with proprietary formats
  - Links to publications: no standard policy



# OA Repositories material

## *Current situation in Europe*



**86% of full text material is Open Access**

**Source:** The European Repository Landscape 2008, *M. van der Graaf, Amsterdam University Press*



# The DRIVER project

## *Networking European Scientific Repositories*

- Guidelines for repository managers for interoperable metadata
  - Validation process, *clean* aggregation
- DRIVER search portal at [www.driver-community.eu](http://www.driver-community.eu)
  - 252 *validated* repositories with 2.5 mi OA publications
- Set up aggregators and/or portals for national consortia
  - Spain – Recolecta
  - Belgium – Ghent University Library
  - Slovenia – University of Ljubljana
  - Bulgaria – Academy of Sciences
  - China – Chinese Academy of Science
  - ...
- COAR - Confederation of Open Access Repositories
  - Networking on a global scale



# D-NET DRIVER technology

- Open source - <http://www.d-net.research-infrastructures.eu>
  - SOA: dynamic workflows, addition of new services
  - Data management - Harvest, clean, transform, index, search
  - End user functionalities – User private space, communities, alerts & recommendations
  - Customizable web portals
  - *Upcoming: Enhanced Publications - Linked Open Data*
- Building aggregating DLs – beyond publications:
  - European Film Gateway (EFG - film archives)
  - Heritage of the People's Europe (HOPE - historical archives)



# Open Access deposition

- Top notch research publications in publishers
- Hard to convince researchers to deposit
  
- Mandates a means to OA deposition
  - NIH, Harvard, MIT, ..., reached #100
- EC Open Access “mandates”
  - EC FP7 Pilot – Aug 2008
  - ERC OA guidelines – Dec 2007



# EC FP7 OA Pilot

- Researchers deposit peer reviewed research articles resulting from their FP7 projects into an online repository and make their *best efforts* to ensure open access to these articles.
- 7 thematic areas (cover 20% of FP7 programme)
  - Health – Energy - Environment
  - Information & Communication Technology
  - Research Infrastructures
  - Socio-economic sciences & Humanities
  - Science in Society
  - *More EC units already joining in ...*



# ERC Open Access Guidelines

- All peer-reviewed publications from ERC-funded research projects to be deposited on publication into an appropriate research repository where available, or an institutional repository, and subsequently made Open Access within 6 months of publication.
- Primary data to be deposited in the relevant database...



# OpenAIRE realizes the FP7 pilot

- Based on existing OA repository infrastructure
  - Researchers deposit in institutional repositories, or in OpenAIRE repository – *orphan* - when no local repository is available
- Provides
  - Technical infrastructure
  - European Helpdesk - [www.openaire.eu](http://www.openaire.eu)
  - National Open Access Desks in 27 countries promoting the FP7 pilot
  - Studies for future deposition of primary data



# OpenAIRE technical infrastructure

*Powered by D-NET*

- Deposition of articles
  - *Orphan* Repository (CERN - INVENIO)
  - Harvest OA publications from existing repositories
- Link publications to EC project information
- Provide access to FP7 scientific publications
- Provide monitoring tools for
  - Document/depositing statistics
  - Usage statistics from repository infrastructure



# European Helpdesk

- Promote FP7-pilot and ERC OA guidelines
- Address confusion and controversy on publishing
- National Open Access Desks (27 countries)
- Provide OA “toolkits” for
  - Researchers
  - Institutions
- Liaison with
  - Other European OA initiatives
  - Publishers
  - CRIS systems



# National Open Access Desks

*“Liaison Offices”*

## Region 1 North (DTU)

Denmark  
(Danish Technical  
University)

Finland  
(University of Helsinki)

Sweden  
(National Library of  
Sweden)

Norway  
(University of Tromsøe)

## Region 2 South (UMINHO)

Cyprus  
(University of Cyprus)

Greece  
(National  
Documentation Center)

Italy  
(CASPAR)

Malta  
(Malta Council for  
Science & Technology)

Portugal  
(University of Minho)

Spain  
(Spanish Foundation for  
Science & Technology)

## Region 3 East (eIFL)

Czech Republic  
(Technical University of  
Ostrava)

Hungary (HUNOR)

Lithuania  
(Kaunas Technical  
University)

Romania  
(Kosson)

Slovakia  
(university Library of  
Bratislava)

Bulgaria  
(Bulgarian Academy of  
Sciences)

Estonia  
(University of Tartu)

Latvia  
(University of Latvia)

Poland  
(ICM – University of  
Warsaw)

Slovenia  
(University of Ljubljana)

## Region 4 West (UGENT)

Austria  
(University of Wien)

Belgium  
(Universtiy of Gent)

France  
(Couperin)

Germany  
(University of Kostanz)

Ireland  
(Trinity College)

Netherlands  
(Utrecht University)

UK  
(SHERPA)



# Deposition of primary data

## *Preparing for the future*

- Explore the requirements, practices, incentives, workflows, data models, and technologies to deposit, access, and otherwise manipulate **research datasets**
- Produce feasibility studies to show researchers the benefit for depositing
- Work with four (4) scientific communities

- Health (Life Sciences)

- EMBL-EBI

- Environment

- World Data Center for Climate
- Consultative Group on International Agricultural Research (CGIAR)

- Information & Communication Science

- Cognitive Interaction Technology (CITEC)

- Socio-economic Sciences and Humanities

- Data Archiving and Networked Services (DANS)



Start publishing Open Access ...

**Thank you!**