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OpenAIRE From Pilot to Service

The Open Knowledge Infrastructure for Europe







OpenAIRE Outline

- Open Access in Europe
- Brief history of OpenAIRE
- Overview of the system
- Services
- Collaborations





It's not IF Open Access

It's HOW Open Access

Neelie Kroes

Vice President of the EU Commission - Digital

Agenda



EC Open Access OpenAIRE POLICIES

- 2009: FP7 OA Pilot and ERC OA guidelines
 - 20% of FP7 in seven scientific areas
- 2012: EC Communication "Towards better access to scientific information: Boosting the benefits of public investments in research" (17th July)
 - Open Access of all publications in H2020
 - Pilot scheme on open access to and re-use of research data generated by projects in selected areas of H2020.
- 2012: EC Recommendation on access to and preservation of scientific information (17th July)
 - Member states should define clear policies for Open Access to results of publicly funded research (publication & data)





OpenAIRE A bit of history

From 2005 ...

- DRIVER 2005 2007
 - Network of 51 repositories in 5 countries
- DRIVER II 2007 2009
 - Pan-European network of 345+ validated repositories
- OpenAIRE 2009 2012
 - Implementing the FP7 OA pilot (links to EC funding)
- OpenAIREplus 2011 2014
 - Supporting OA in <u>all</u> Europe (links to all European funding)
 - Providing links to data
 - Expanding to Scientific Information Infrastructure







Multifaceted consortium

- Scholarly communication institutions
 - Gottingen, Ghent, Minho, e-IFL, DTU, SURF OA policies, digital library services
- Technological institutions
 - CNR-ISTI, UoA, ICM data infrastructures
 - Bielefeld Library IT, CERN Digital Library Services library IT & digital library
- Scientific communities
 - EBI (life sciences), DANS (social sciences), CGIAR (agriculture), BADC (climate), WDDC (climate)
- National Open Access Desks





What does it mean?

Human PARTICIPATORY DESIGN Technical



Technical Infrastructure

Multifaceted endeavour

24x7
OPERATIONAL
SYSTEM SINCE
2010

Number of unscheduled downtimes = 0

Building on existing efforts in the scholarly communication and OA domain

- Publication and research data repositories/data infrastructures
- Open Access Journals
- Funders' systems
- Authoritative registries
- Usage data from repositories
- 3rd party services







OpenAIRE Technology re-use

Building a community around the OpenAIRE (D-NET) technology

- National repository infrastructures
 - Recolecta Spain
 - CEON Poland
 - SIU Argentina
- Europeana satellite projects
 - EFG & EFG1914 (filmography)
 - HOPE (history of labour)
- Data Infrastructures
 - ESPAS Near Earth Space Science
- Usage statistics
 - MadIS system from OpenAIRE









OpenAIRE Human infrastructure

Research is globalizing, policy implementation is at the local level



All member states

Challenge - Aggregate at a global level this local information, taking into account socio-cultural & regional differences of the communities involved

- 32 Network of National Open Access **Desks**
 - Diverse national research environments
- OA advocacy through targeted activities
 - Reach out to researchers. organizations, infras - Helpdesk, workshops, training
- European network of people sharing

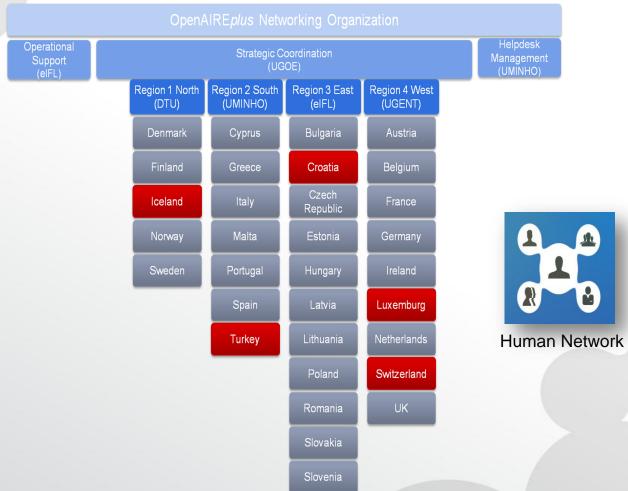




OpenAIRE Desks

National Open Access

European footprint





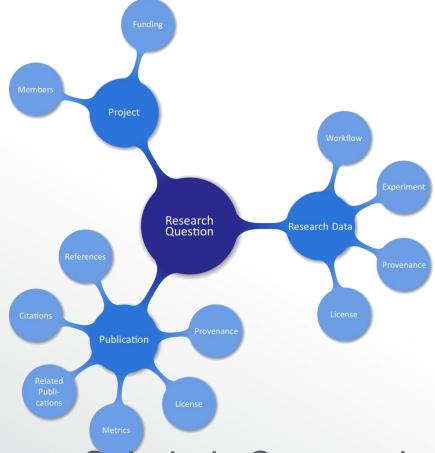


What is OpenAIRE?

THE OPEN ACCESS KNOWLEDGE INFRASTRUCTURE FOR EUROPE



The "new" publication



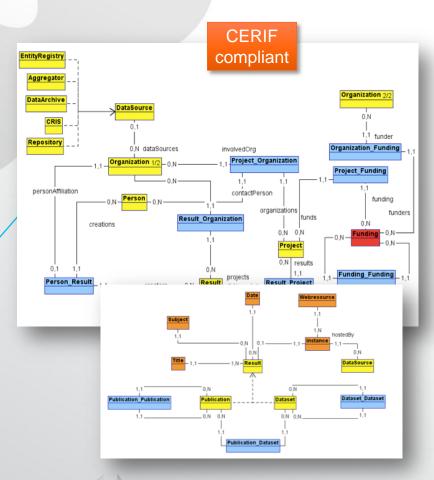
Scholarly Communication Model in trail
Information in Context





The OpenAIRE data OpenAIRE model

Main entities and relationships



- Research results & licences
 - Publications
 - Research data (datasets & databases)
- People
 - · Authors, Pls
- Research organizations
- Funders and funding schemes
- Data Sources
 - Repositories, aggregators, registries, CRIS







Deposit Publications & data

Visualize - Manage **Enhanced Publications**

Curate & collaborate



Statistics

+++



Get support (NOADs)















Link Classify

Text Mine

De-Cite duplicate





OpenAIRE HUB

Metadata Usage data on publications

6,500,000 OA publications 345 validated repositories

Guidelines for Publications



Publication repositories Institutional & Thematic **Open Access Journals**

Guidelines for Funding Info

CRIS Systems

EC funding National funding ResearchID

OpenDOAR

Guidelines for Data Providers

DataCite

Metadata

on data



Data repositories Data Journals

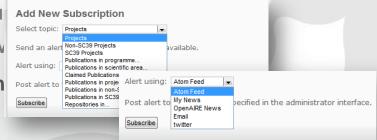


OpenAIRE Researchers

...except for the usual benefits of Open Access.



- One stop-shop for deposition publications & data
 - Identify your local or thematic repository
 - Deposit in CERN repository for "homeless" researchers
- Mechanisms to link publications to projects & data
 - Harvesting and aggregation
 - Manual through the portal
 - Automated throu Add New Subscription (repositories, ArXiv
- **Alerts and Notification**
- Online curation









OpenAIRE Data Providers

... part of the global community – Interoperation through internationally accepted guidelines

Are you a Data **Provider?** Join the Open Access Network. Impact Open Science.

- Different levels of compatibility
 - Publication, funding, research data
 - Usage statistics (impact)
- Get back enriched information
 - Links to funding and research data
 - Aggregated statistics
- Enrich content through notifications about publications in other repositories





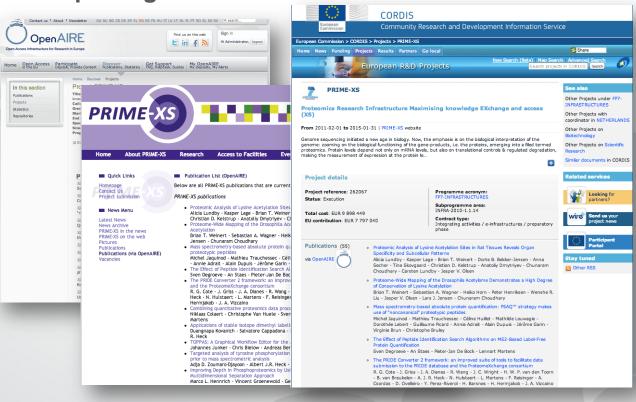


OpenAIRE Project Coordinators

... tools to ease everyday workflows

Research **Coordinator** or **Project** Manager?

Dissemination of research output and reporting

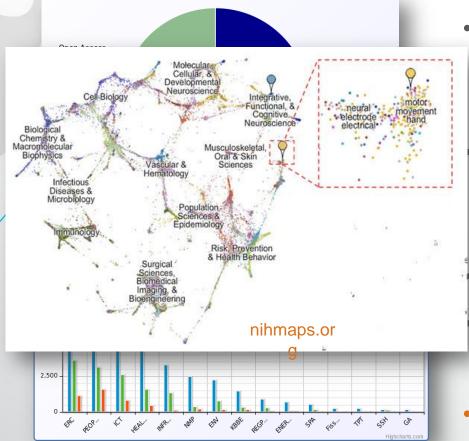






Administrators

Measure OA and Impact; Aggregated statistics for research



- National funders/infras
 - What is the output/impact of your country

Institutional research admins

- Link to CRIS systems
- Output and impact of institution
- **Open Access evaluation**
- Statistics on projects/scientific
- areas/countries/institutions
- Advanced tools for science trends







Scientific Initiatives

Communities and researcher networks



- Use OpenAIRE to get the impact
 - Identify publications/data related to the inititiative
 - Provide tools for community curation
 - **Export in the community portal for** display



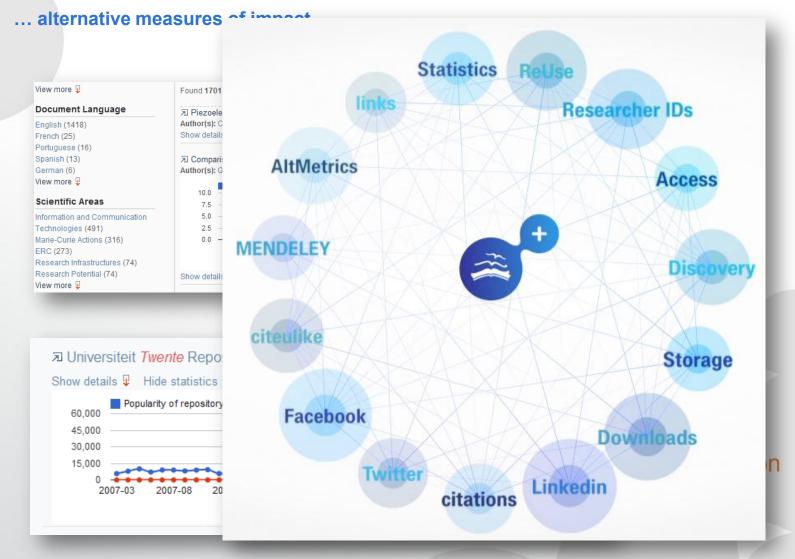
- Use OpenAIRE as the pool of OA publications
 - Researchers link to OpenAIRE to build their libraries







OpenARE Usage statistics



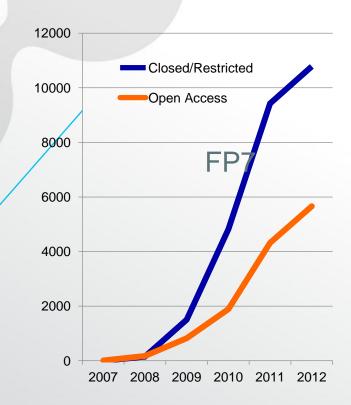






OpenAIRE Where are we so far?

Some numbers and statistics



Current estimate 40% (real number is higher)

- 116 repositories/OA Journals
 - To be increased with the new guidelines
- 43.500 FP7 publications in ~8.000 projects
 - With additional effort to retrieve full text publications and text mine for FP7
- 11.400 Wellcome Trust publications in ~3.900 projects (49% OA min)







OpenAIRE Collaborations

...24 hours in a day not enough

crossRef - metadata resolver EuroCRIS - research data model OpenDOAR – OA repository registry RepNet – UK OA infrastructure ORCID - researcher IDs DataCite - citation for data **CORDIS – EC display portal** REISearch - researcher social network PLOS – share usage data

EGI – scientific initiative to assess impact **ENGAGE** – exchange data through CERIF





Working groups on Legal Interoperability & IPR issues Publication-data integration







What are the common goals?







Join our network!
Our next meetings: Minho, Portugal in February 2013 – Interoperability workshop

Ghent Library in May 2013 – Publication – data integration models



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