

Donatella Castelli
Consiglio Nazionale delle Ricerche
ISTI

OpenAIRE

Open Access: Movement to Reality - Putting the Pieces Together”

21-22 May 2014, Athens



OA EU Pilot Mandate



FP7 OA Pilot (2008)

- Grant agreement SC39
- 20% programme areas
- Deposit in Repositories
- OA after embargo period (6-12 months)
- Gold payments during project

OpenAIR E

OPEN ACCESS

INFRASTRUCTURE
FOR RESEARCH IN EUROPE

Major development steps

OpenAIRE project

- Supporting identification, deposition, access and monitoring of FP7 and ERC funded articles



OpenAIREPlus Project

- Any OA article
- Any EU and National Funding Scheme
- Publications in context (datasets, projects, funding schemes, people, etc.)

OpenAIRE infrastructure



Human Network



e-Infrastructure

A participatory approach

Capitalizing on previous investment



REPOSITORIES
TECHNOLOGIES
ORGANIZATIONS
PEOPLE



- Better sustainability
- Facilitated advocacy and adoption
- Deeper understanding of requirements and constraints

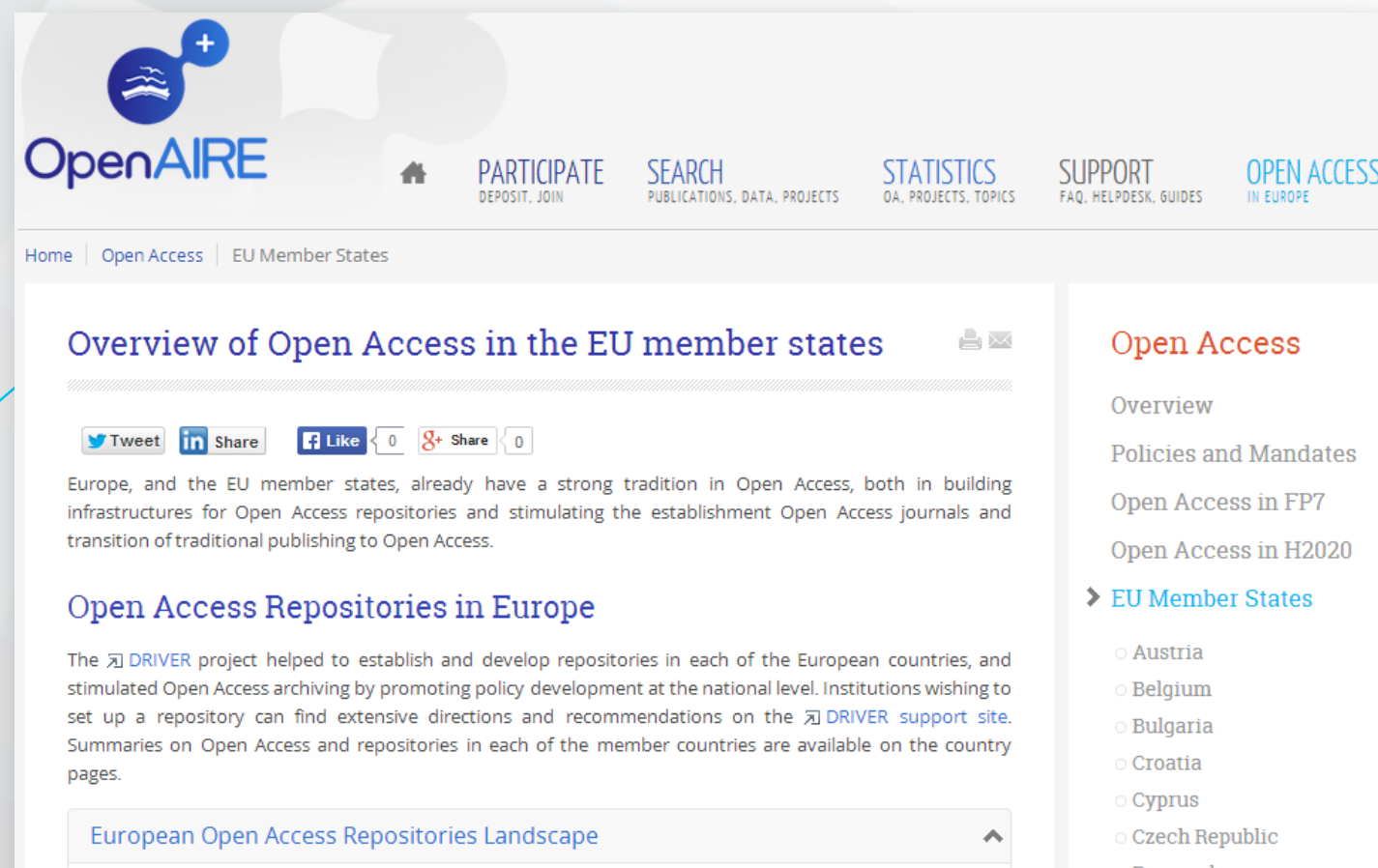
Many implementation models



- Strong national distributed repository networks
- Strong national repository network integrated with CRIS systems
- Nationally centralized solutions
- Significant number of repositories and some “strong” ones

Flavours of Mandates

Diverse European landscape. Still in the ,Early Stages‘ of Development



- Institutional mandates
 - General agreement on benefits of gathering research output
 - Mandatory vs voluntary
- National/funder mandates
 - Gold vs Green route

Region East

EC OA Mandate has stimulated actions and development of repositories

Lithuania: National OA working groups. Raising awareness of OA among ministries and research councils

Croatia: Involvement in EU initiative has 'consolidated' national repository activities.

Latvia: EC Mandate gives a background to align national OA policy. As a result they have set up an institutional repository.



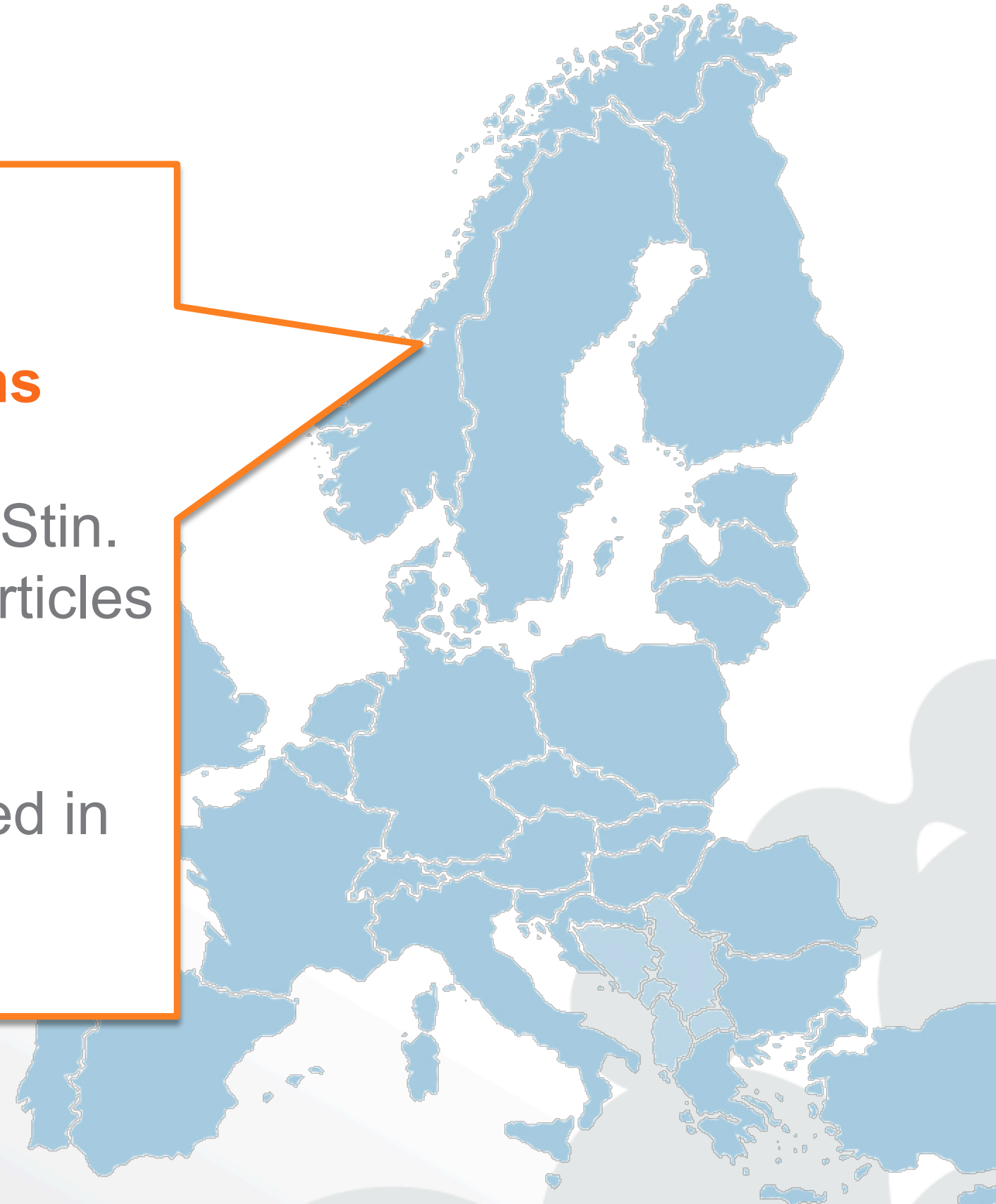


Region North

Repositories are integrated with CRIS systems

Norway: National OA responsibility lies with CRISStin. Implementation of tool to automatically deposit articles from CRIS into repositories.

Denmark: All national research outputs registered in PURE CRIS repositories.



Region West

Well developed institutional repositories

Centralised Model

France: National Research agencies mandate to deposit in HAL.

Belgium: University of Liege successful mandates to deposit research outcomes.

Significant number of repositories

Netherlands: Nationally coordinated, accessible through a single national portal.

Germany: Many repositories, different initiatives.

UK: Many repositories, different initiatives.

Region South

Heterogeneous situation

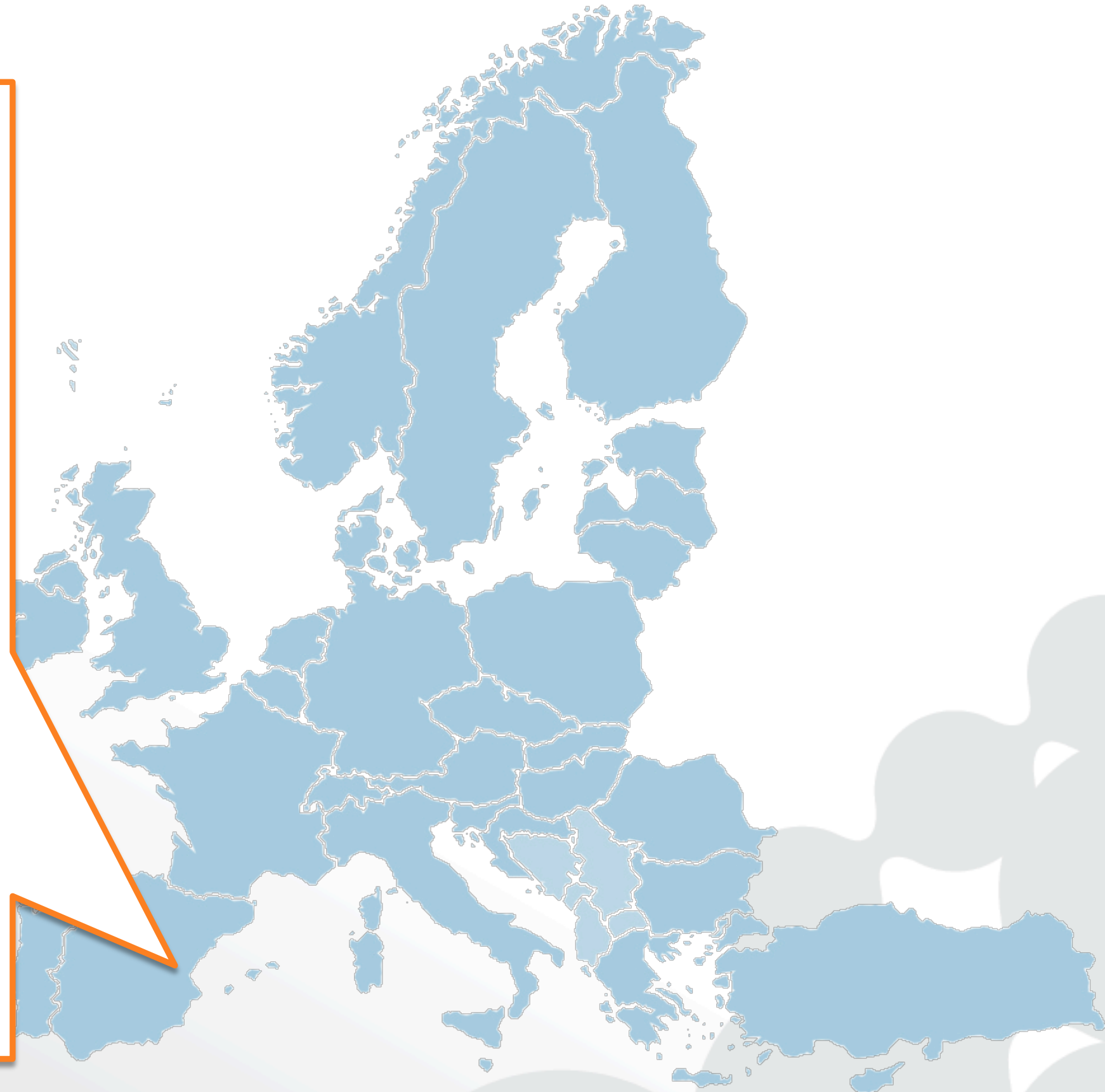
Distributed repositories & national portal

Portugal: National OA repository infrastructure (usage stats, services). Strong coordination and effective mandate

Spain: National portal – still evolving

Significant number of repositories

Italy, Greece: Not yet any national aggregating initiative



Research Data

Mostly at policy level

Finland: Ministry of Education - National Research Data Initiative initiated a policy, to be implemented late 2014

Italy: Research centres and universities lobbying Ministries to suggest implementation of data policy

Practical level

EC: Running an Open Data Pilot – eligible projects only – RDM plan required and a workflow for the data

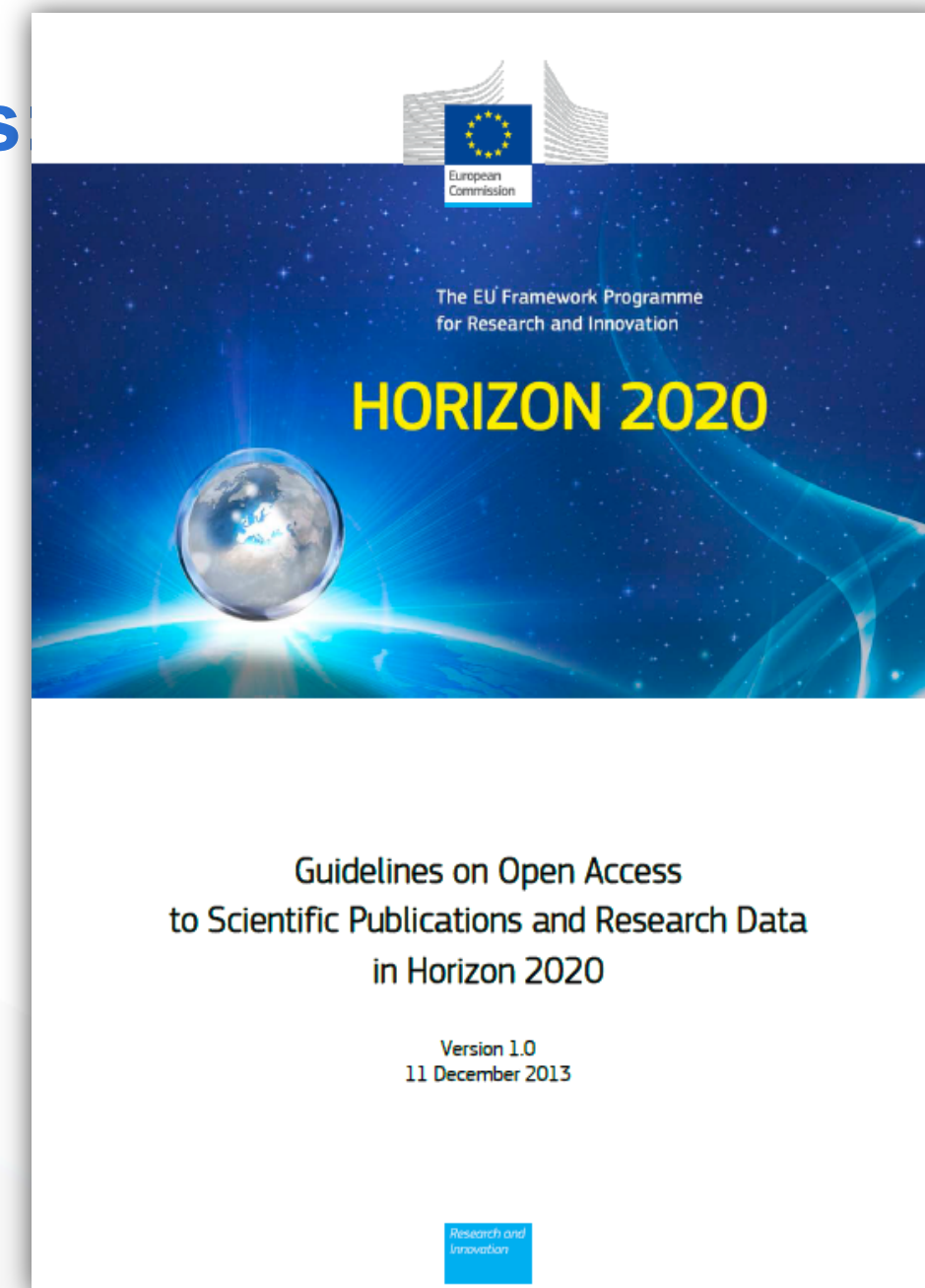
Netherlands: Run data repositories DANS and support/Training 3TU

UK: DCC for support. A number of data repositories

Open Access in Horizon 2020

Four steps to getting open access articles

1. **Submit papers to a journal of choice**, there is no restriction. If a researcher chooses to publish in an OA journal, publishing costs can be reimbursed within the project period and budget.
2. **Deposit** the final manuscript or publisher's PDF in a repository, either institutional or disciplinary.
3. **Acknowledge project funding**, both in the publication and in the metadata: each publication should add the EC grant agreement number.
4. **Each paper** must have a **publication date**, a **date of release in open access** (embargoed if necessary) and a **persistent identifier**.



What is OpenAIRE

1 SUPPORT

Helpdesk. Engaging people and scientific repositories in 27 EU member states and beyond

2 PORTAL

24 x 7 Service.
Access to Research records. Linking publications to datasets, author information and above all, funding information

3 ZENODO

Repository for data and articles that can be stored neither in institutional nor in subject-based/thematic repositories



Supporting OA in Europe

Strategic Coordination
(UGOE)

Region 1 North (DTU)	Region 2 South (UMINHO)	Region 3 East (eIFL)	Region 4 West (UGENT)
Denmark	Cyprus	Bulgaria	Austria
Finland	Greece	Croatia	Belgium
Iceland	Italy	Czech Republic	France
Norway	Malta	Estonia	Germany
Sweden	Portugal	Hungary	Ireland
	Spain	Latvia	Luxemburg
	Turkey	Lithuania	Netherlands
		Poland	Switzerland
		Romania	UK

OpenAIRE representing all Member States

• 32 National Open Access Desks

- Involving the research libraries
- Diverse national research environments

• OA advocacy through targeted activities

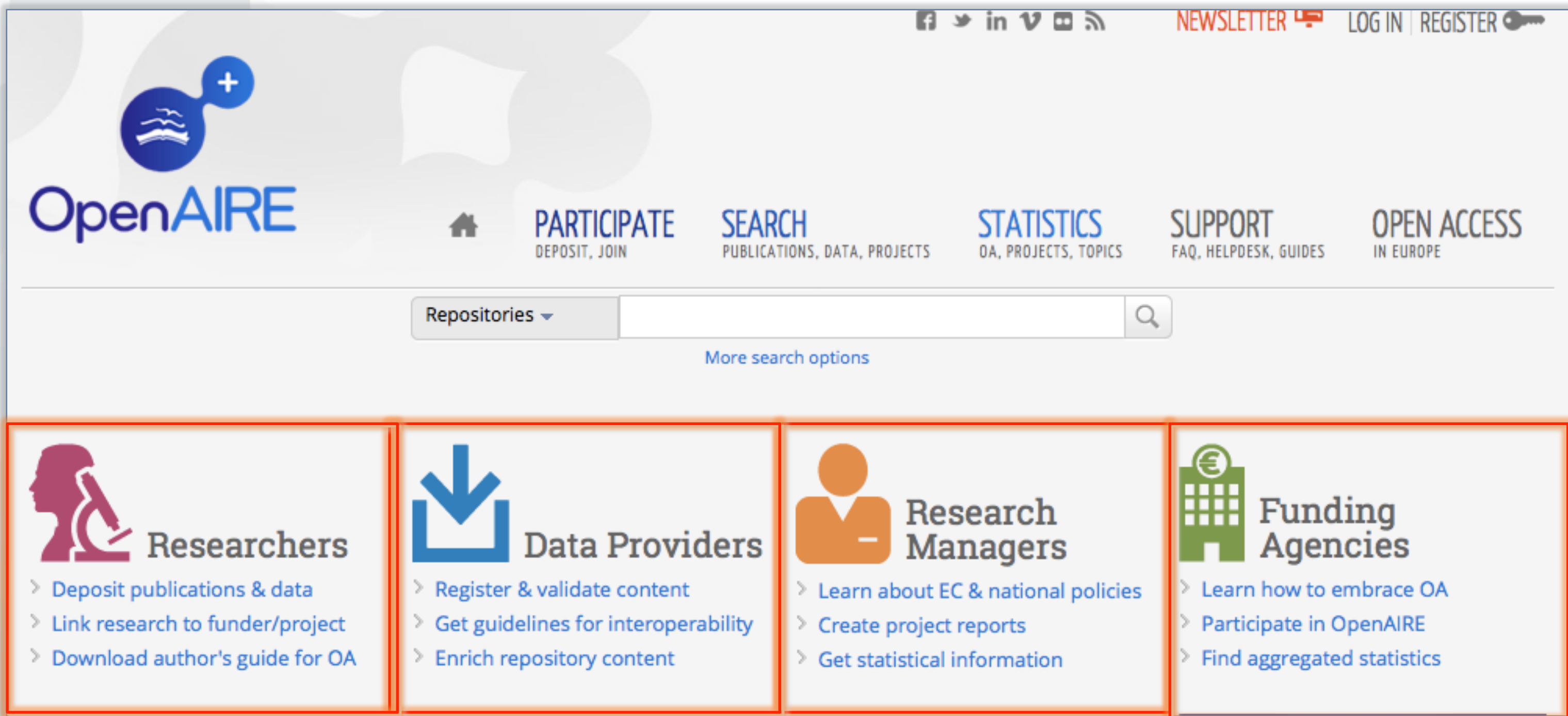
- Liaison with National Reference Points
- Helpdesk, workshops, training

• Harmonisation of OA policies

• Definition of shared guidelines



OpenAIRE Services

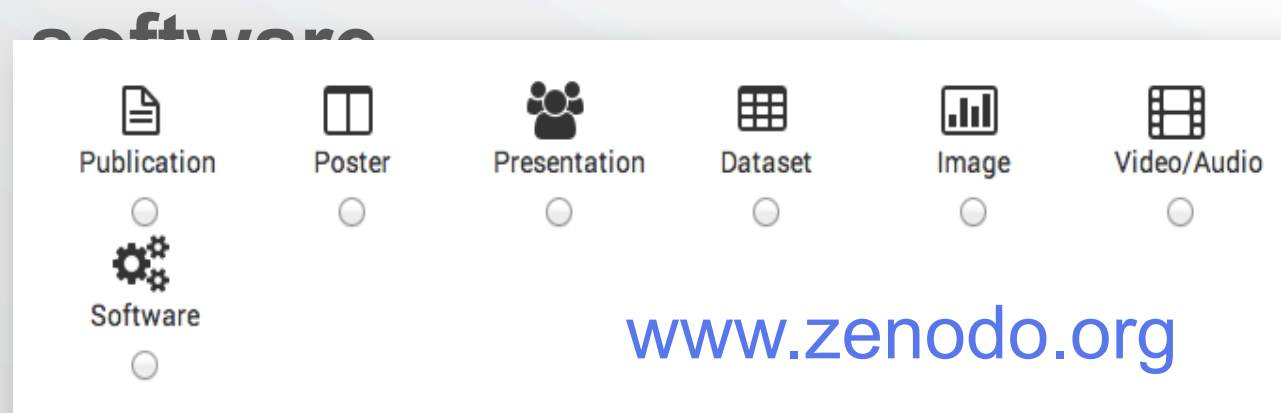


The screenshot shows the OpenAIRE website interface. At the top, there is a navigation bar with social media icons (Facebook, Twitter, LinkedIn, YouTube, RSS) and links for "NEWSLETTER", "LOG IN", and "REGISTER". Below this is a main header with the OpenAIRE logo and a navigation menu with links: "PARTICIPATE" (DEPOSIT, JOIN), "SEARCH" (PUBLICATIONS, DATA, PROJECTS), "STATISTICS" (OA, PROJECTS, TOPICS), "SUPPORT" (FAQ, HELPDESK, GUIDES), and "OPEN ACCESS" (IN EUROPE). A search bar is located below the navigation menu, with a dropdown menu labeled "Repositories" and a search button. Below the search bar is a link for "More search options". At the bottom of the page, there are four highlighted boxes, each representing a user group and their services:

- Researchers**
 - > Deposit publications & data
 - > Link research to funder/project
 - > Download author's guide for OA
- Data Providers**
 - > Register & validate content
 - > Get guidelines for interoperability
 - > Enrich repository content
- Research Managers**
 - > Learn about EC & national policies
 - > Create project reports
 - > Get statistical information
- Funding Agencies**
 - > Learn how to embrace OA
 - > Participate in OpenAIRE
 - > Find aggregated statistics

“Catch-all” repository: OpenAIRE-CERN joint effort

- **Multiple data types**
 - Publications
 - Long tail of research data
- **Citable data (DOI)**
- **Links to funding, pubs, data,**



H2020: Option to gather, preserve and share your project's scientific output



**Deposit
Publications
& data**



**Visualize - Manage
Enhanced Publications**



Search & Browse



Curate & collaborate

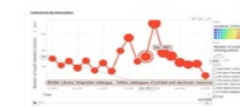


**Linked Content
Statistics**

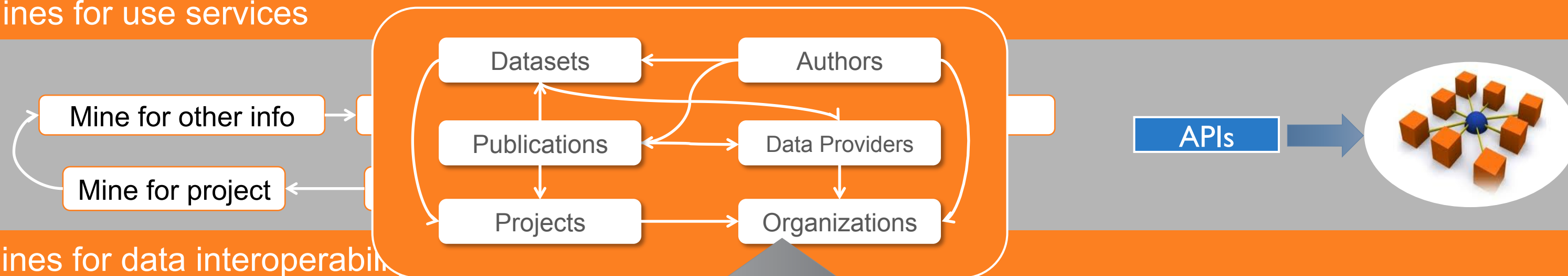


**Research impact
Citations, usage statistics**

+++



Guidelines for use services



Guidelines for data interoperability

Metadata
And pdfs

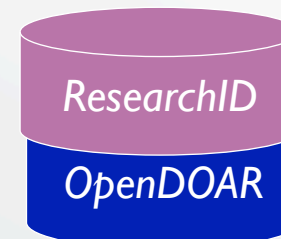
Usage data



Publication repositories
Institutional & Thematic
Open Access Journals



CERN/OpenAIRE "catch-all" repository

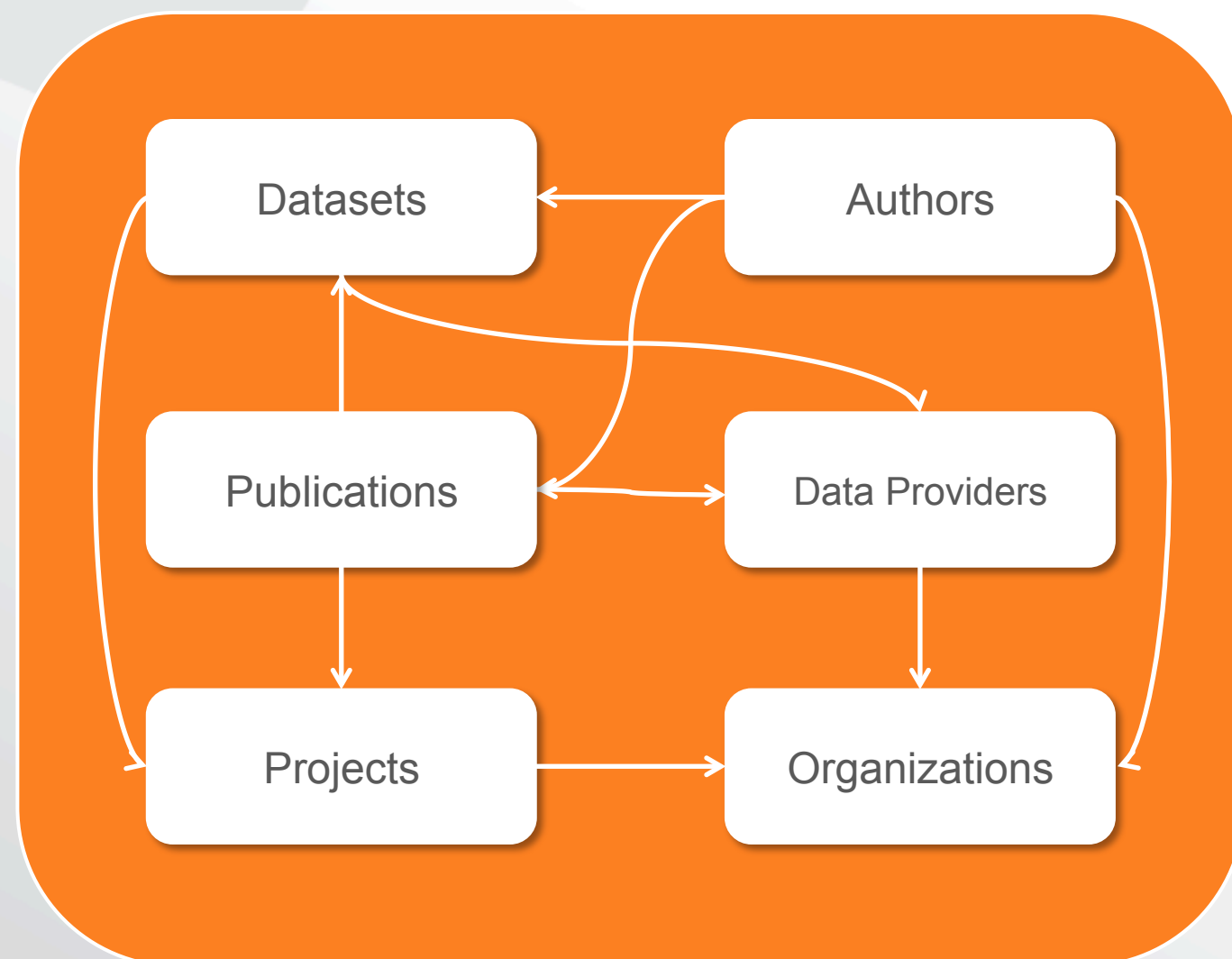


Metadata
on data



Data repositories
Data Journals

Some numbers (May 20, 2014)



8.4 mi publications
7 mi authors
460+ data providers
Linked to 80K projects from
2 funders (EC and Wellcome
Trust)
Linked to 700 datasets
33K organizations

Researchers



- Retrieve and access
- Deposit once
 - Find where to deposit – **publications & data**
 - Local or thematic repository?

Locate repository via your institution

university of oxford |

Or locate repository in map

zenodo

The place to share your research results

Repositories for institution: University of Oxford

Please use the information/contacts shown below to deposit your publications

Oxford University Research Archive - ORA

(147518 items - 19/11/2013)

Organizations: [University of Oxford](#)

Website URL: <http://ora.ox.ac.uk/>

OAI-PMH URL: <http://ora.ox.ac.uk:8080/fedora/oai>

First World War Poetry Digital Archive

(7000 items - 19/11/2013)

Organizations: [University of Oxford](#)

Website URL: <http://www.oucs.ox.ac.uk/ww1lit/>



Pub Claim

1 Identify project
2 Select Publications
3 Set access rights

2 Publications / 2 Projects

Open Access Publications

Publication DOI

☒ ORCID (resolved via ORCID)

0000-0002-3477-3082

Identify

Selected Projects

[X] [ECODRIVER](#)

[X] [ELISA](#)

Selected Publications

[X] [A Survey of Context-Aware Cross-Digital Library Personalization](#)

[X] [A functionality perspective on digital library interoperability](#)

Set access rights

mm/dd/yyyy

☒ Set access rights

Open Access
Closed Access
Embargoed Access
Restricted Access

< Prev

Finish

Monitor scientific outcomes



Project: ELISA

Publications
Data
Statistics

view all 581

XAFS IN THE TRACKING OF REACTIONS IN AQUEOUS SOLUTION: A CASE OF REDOX REACTION BETWEEN $[AuCl_4](-)$ COMPLEX IONS AND ETHANOL

Paclawski, K.; Sikora, M. (2012)
Projects: ELISA (226716)

In this work the potential application of synchrotron radiation in the studies of reaction kinetics in aqueous phase were presented. After short introduction describing principles of technique and potential application of XAFS for the structural studies of reacting species, the experimental results of

END DATE 31/08/2011

SPECIAL CLAUSE 39 no

ORGANIZATIONS INFN, DESY, HZDR, KIT, Helmholtz-Zentrum Be, DESY, Helmholtz-Zentrum Berlin, EMBL, Synchrotron SOLEIL, KIT, FOM, CNRS, Synchrotron SOLEIL, HZDR, CNRS, CELLS, EMBL, INFN

MORE INFORMATION [Detailed project information \(CORDIS\)](#)


ELISA
European light sources activities - synchrotrons and free electron lasers

from 2009-03-01 to 2011-08-31 | ELISA website

ELISA has the largest and most advanced system of synchrotrons and free electron lasers (FELs): 17 operating facilities, several under construction, some 300 beamlines, 25,000-30,000 users per year from many disciplines (materials, chemistry, biology, medicine, physics, technology and others); this is also the world's largest experimental network. The system is an invaluable resource for all scientists ...

Project details

Project reference: 226716
Status: Completed
Total cost: EUR 11 527 104
EU contribution: EUR 10 000 000

Programme acronym:
FP7-INFRASTRUCTURES
Subprogramme area:
INFRA-2008-1.1.1
Contract type:
Combination of CP and CSA

Results

- Periodic Report Summary - ELISA (European light sources activities - synchrotrons and free electron lasers)

Documents

- Periodic Report - ELISA (European light sources activities - synchrotrons and free electron lasers)

Publications (436)

- Improved scintillation proportionality and energy resolution of LaBr(3):Ce at 80 K
Ivan V. Khodyuk - Mikhail S. Alekhin - Johan T. M. de Haas - Pieter Dorenbos
- Structure of the Dimeric Autoinhibited Conformation of DAPK2, a Pro-Apoptotic Protein Kinase
Ashok K. Patel - Ravi P. Yadav - Viivi Majava - Inari Kursula - Petri Kursula
- Examination of the Coordination Sphere of Al(III) in Trifluoromethyl-Heteroarylalkenolato Complex Ions by Gas-Phase IRMPD Spectroscopy and Computational Modelling
Lisa Brueckmann - Wieland Tyrre - Sanjay Mathur - Giel Berden - Jos Oomens - Anthony J. H. M. Meijer - Mathias Schaefer

Project reporting

All project publications in HTML or CSV

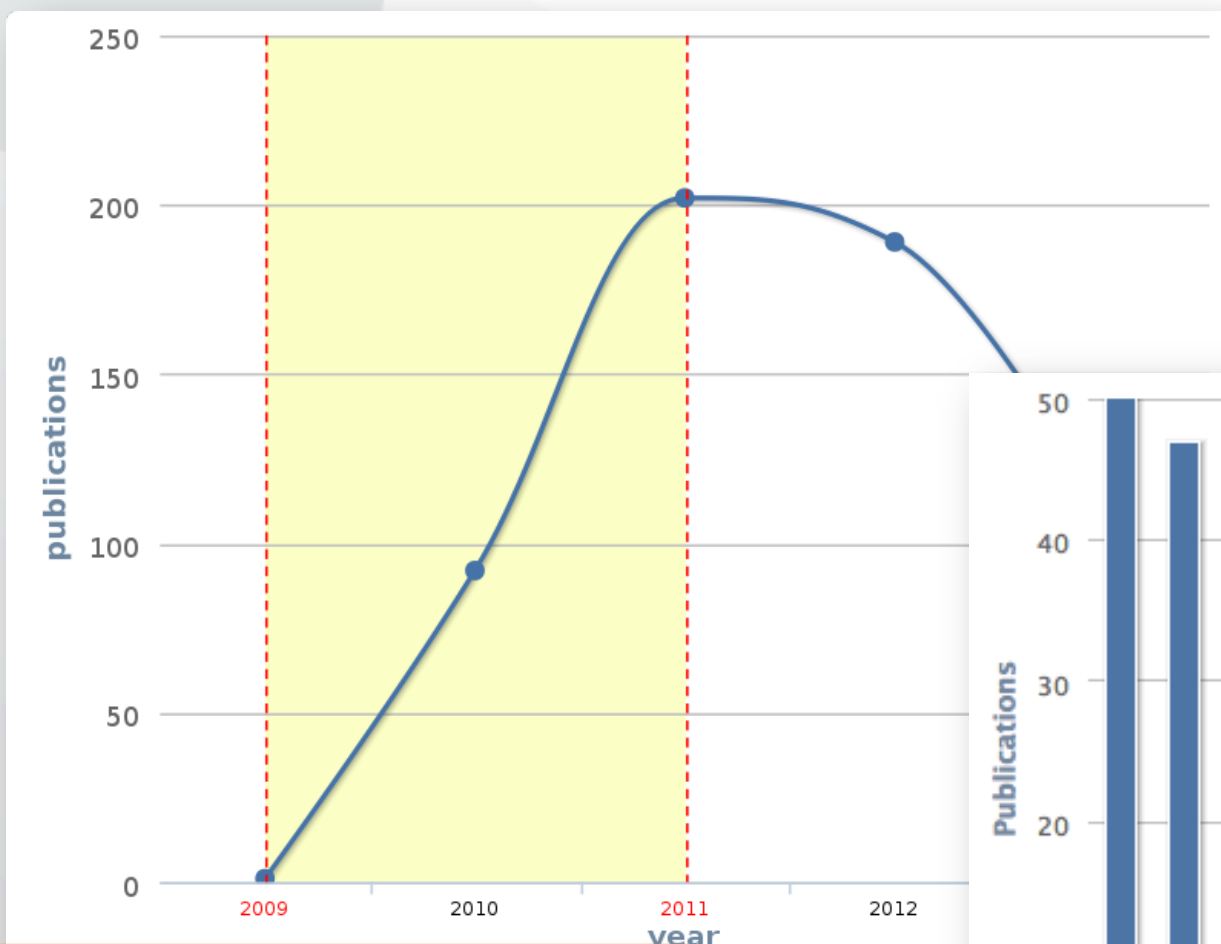
Publications of Project ELISA

445 publications

Title	Author	Publisher	Publication Date	Permanent Identifier	Access Mode	Embargo End Date
Low-temperature fabrication of layered self organized ge clusters by RF-sputtering	Pinto, S. R. C.	Springer Verlag	2011-04-14	http://hdl.handle.net/1822/15689	OPEN	
The high-resolution structure of the extracellular domain of human CD69 using a novel polymer	Kolenko, Petr	WILEY-BLACKWELL PUBLISHING, INC	2009-01-01	http://dx.doi.org/10.1107/S1744309109043152	CLOSED	
Structural and magnetic study of the annealing of Fe-Co nanoparticles	Desvaux, Celine	ROYAL SOC CHEMISTRY	2010-01-01	http://dx.doi.org/10.1039/b916294a	CLOSED	
Neuroprotective action of FK-506 (tacrolimus) after seizures induced with pilocarpine: quantitative and topographic elemental analysis of brain tissue	Chwiej, Joanna	SPRINGER	2010-01-01	http://dx.doi.org/10.1007/s00775-009-0597-2	CLOSED	
Energy band structure and optical response function of ionospheric P(12)As(2)As spectroscopic ellipsometry and first	Belokobov, S.	AMER PHYSICAL SOC	2010-01-01	http://dx.doi.org/10.1103/PhysRevB.81.075114	CLOSED	

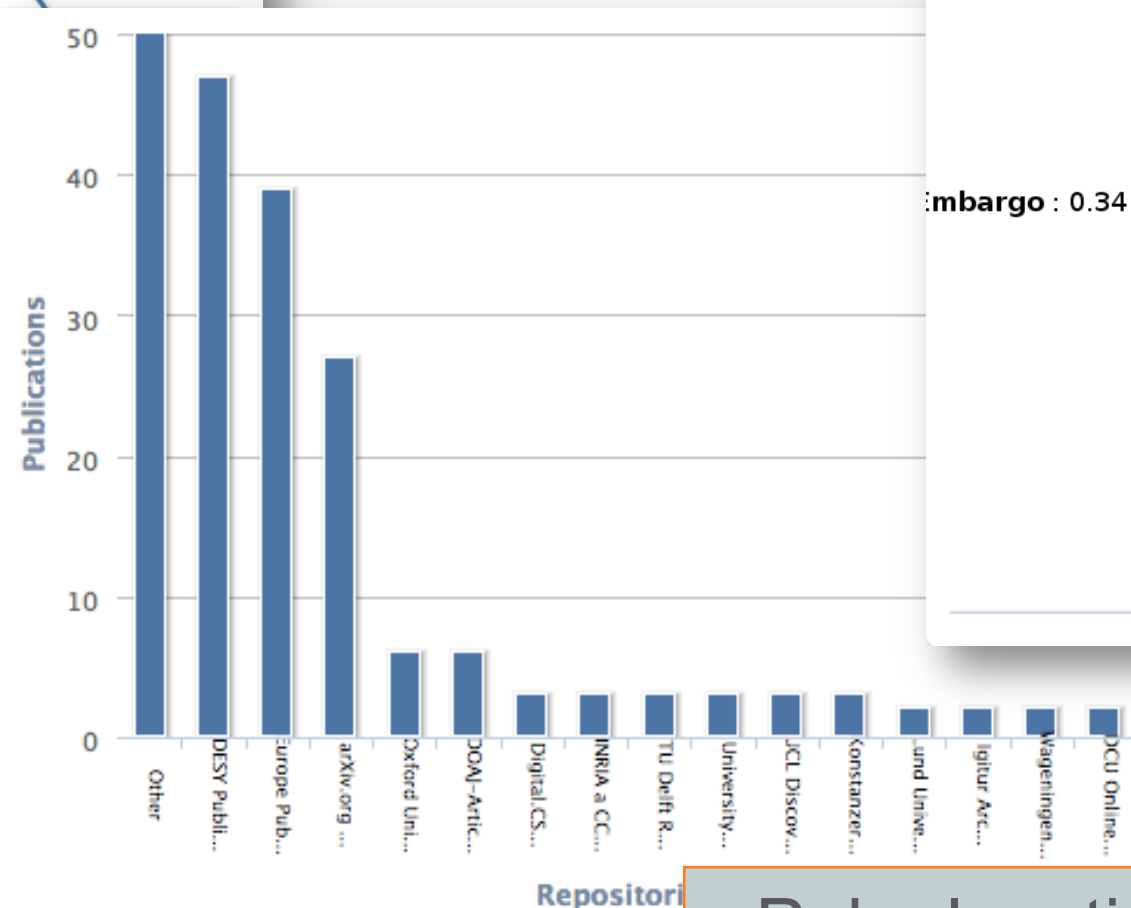
Still missing: **One click away to EC project reporting systems**

Research managers: project statistics

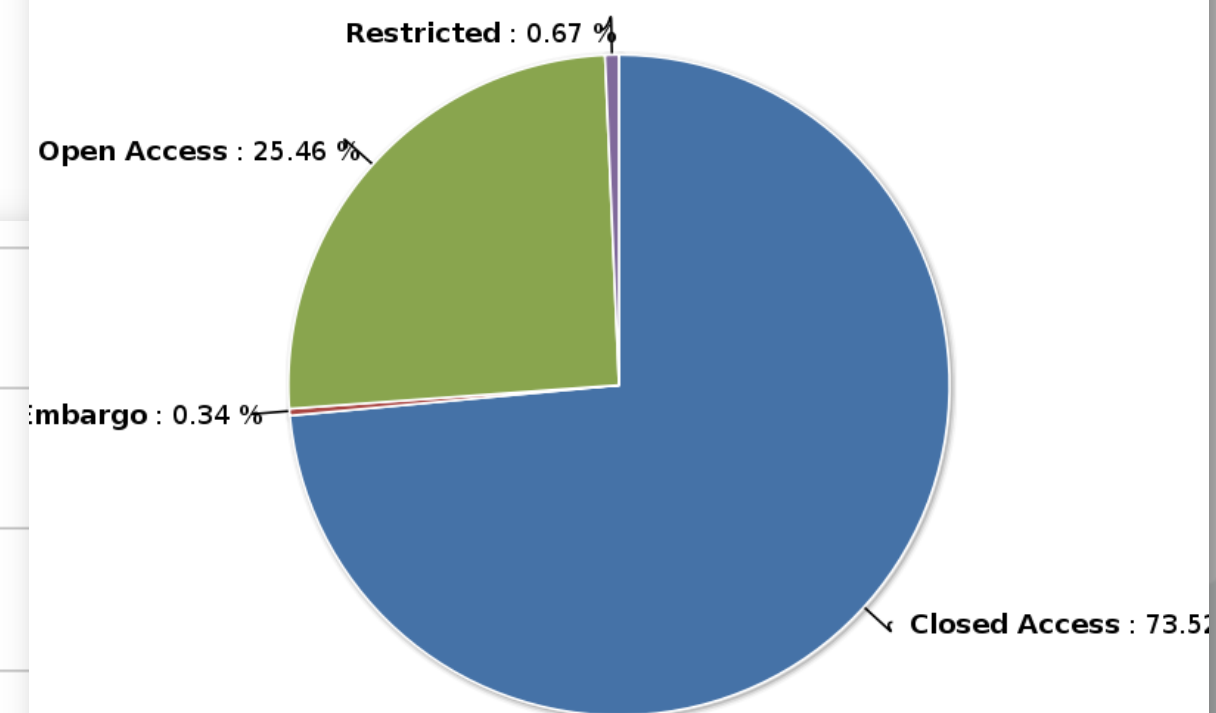


Project productivity over time

Post project-monitoring



Pubs location

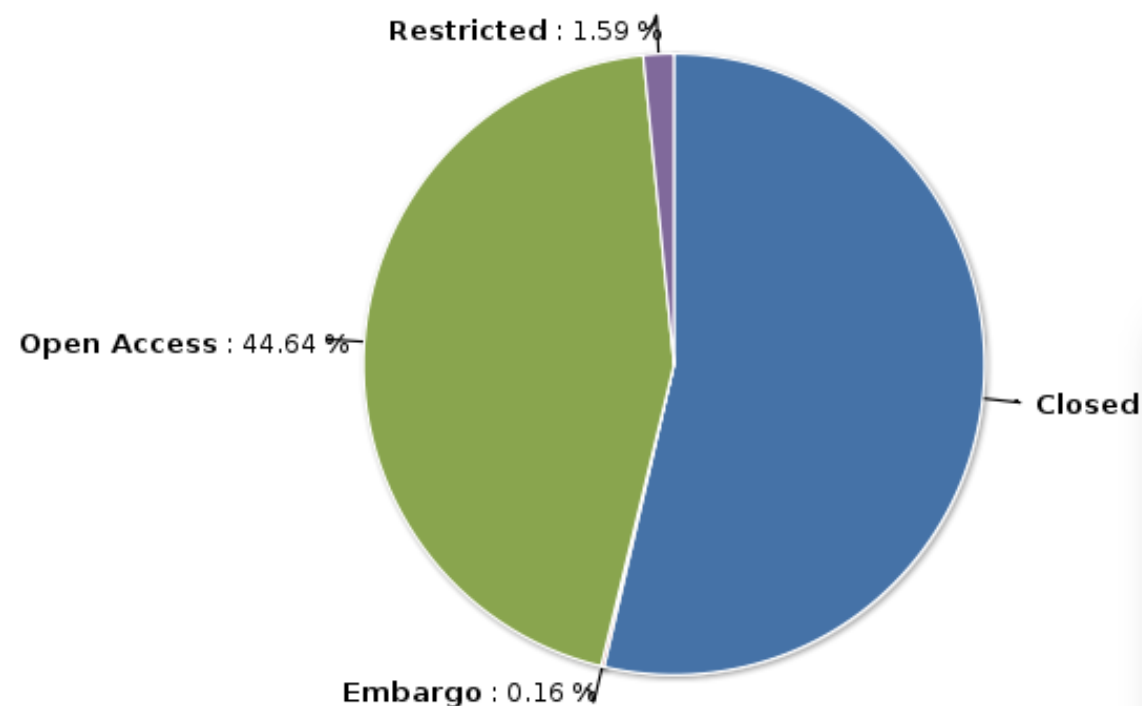


OA mandate conformance

Funders: Monitoring OA policy



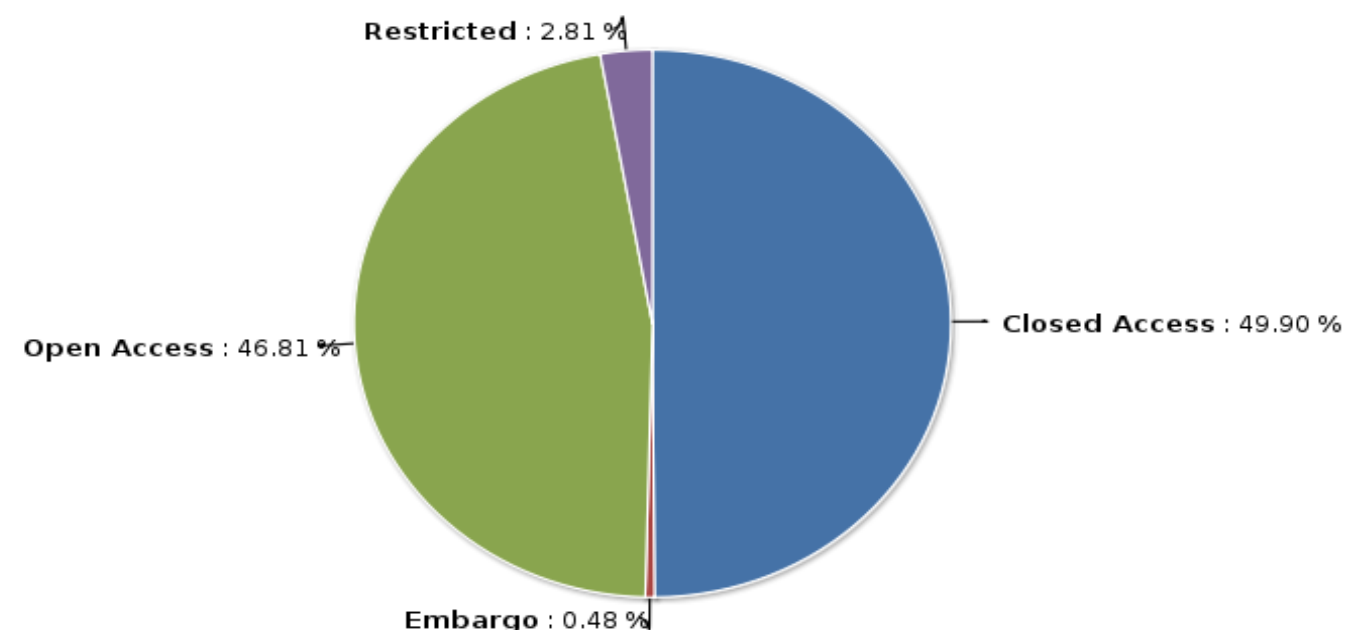
FP7 publications breakdown by access mode



FP7

66K pubs – 7.5K projects

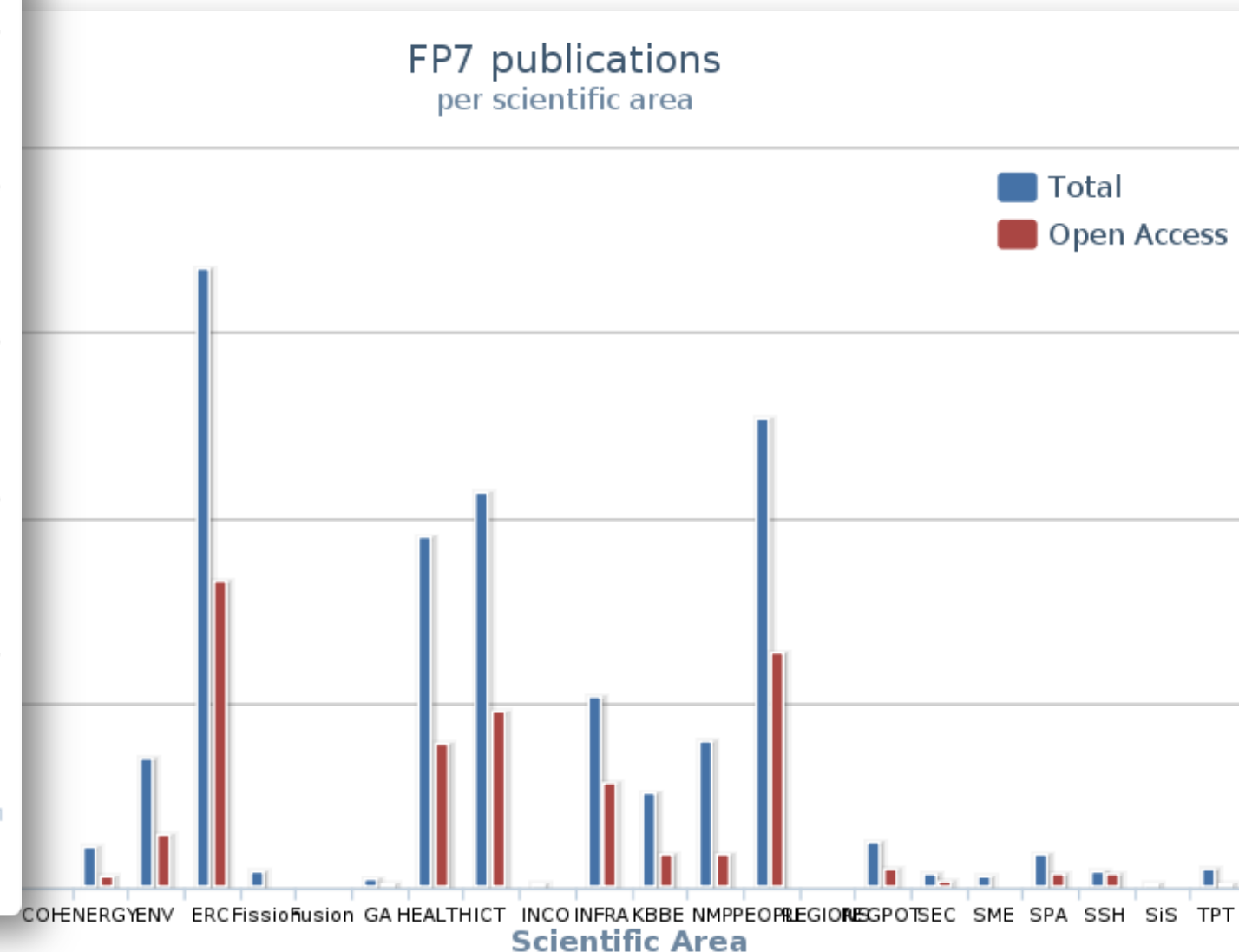
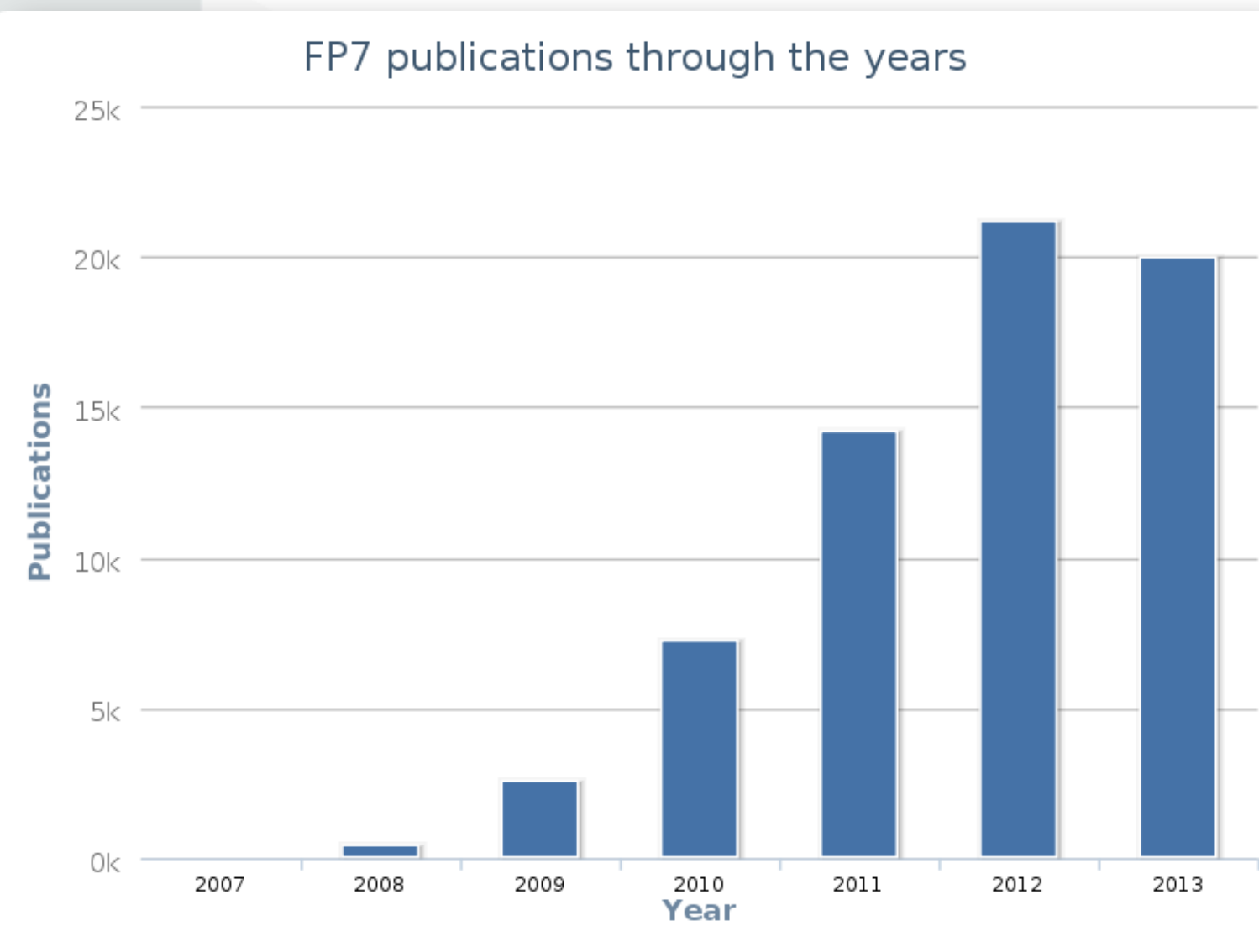
Publications of FP7 projects with SC39 breakdown per access mode



SC39: FP7 OA Pilot

8.5K pubs – 725 projects

Research Output Measures



FP7 timeline - total

FP7 breakdowns

EC OA Mandate Progression

FP7 OA Pilot (2009)

- Grant agreement SC39
- 20% programme areas
- Deposit in Repositories
- OA after embargo period (6-12 months)
- Gold payments during project



Horizon 2020 (2014)

- All grant agreements
- 100% programme areas
- Deposit in Repositories
- Gold payments *after* project end
- Open Data Pilot for a number of programme areas

OpenAIRE2020 ⁽¹⁾

- **Support the H2020 vision of open access for scientific publications and the Open Data Pilot for H2020**
 - **Identify and dealing with H2020 “publications”** (articles, datasets, software, ...) through a series of services operating on various sources such as OA publishers, repositories, scholarly societies, etc
 - Involve and engage NOADs in **Research Data Management aspects**
 - Provide **legal guidance for H2020** project participation in the Open Data Pilot
 - Offer **specialized Zenodo** services for researchers to deposit datasets and publications pertaining to their H2020 projects
 - Establish and run a **pilot on FP7 post-grant Article Processing Charges (APC)**



OpenAIRE2020 (2)

- Build a **pan-European Research Information Management System** to monitor OA research outcomes from the EC and other national funders
 - Engage with national funders to showcase the benefits of a **pan-European CRIS**
 - Integrate with emerging **PID infrastructures** (DataCite, ORCID)
 - Serve research communities that need **quantitative and qualitative monitoring and assessment**
 - Proactively explore the establishment of new multidimensional **performance indicators**
 - Produce **usage and advanced research analytics**



OpenAIRE2020 (3)

- Create an international **OA repository collaboration platform** to support truly global research and scholarly communication
 - Advance the dialogue started by COAR with **Australia, China, Europe, Latin America**, and the **USA** on commons issues (e.g. policies, guidelines, usage data, impact, linking and integration to data repositories) through a series of **targeted workshops and pilots**
 - Participate in **international collaboration efforts** (e.g. RD,



Thank you!

 www.openaire.eu

 @openaire_eu

 facebook.com/groups/openaire

 linkedin.com/groups/OpenAIRE-3893548

 [**donatella.castelli@isti.cnr.it**](mailto:donatella.castelli@isti.cnr.it)