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**

OpenAIRE

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
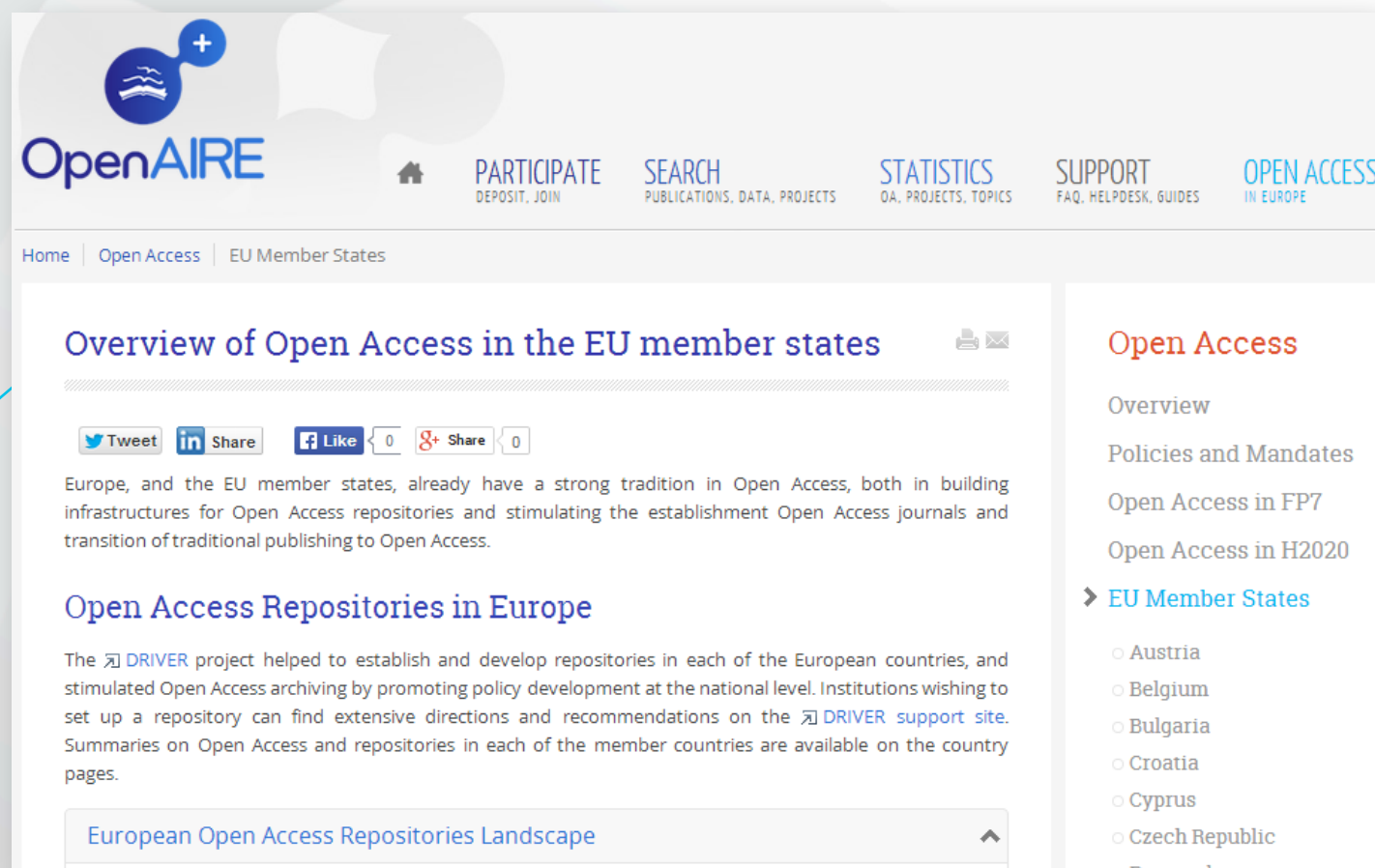- Deeper understanding of requirements and contrainsts

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.
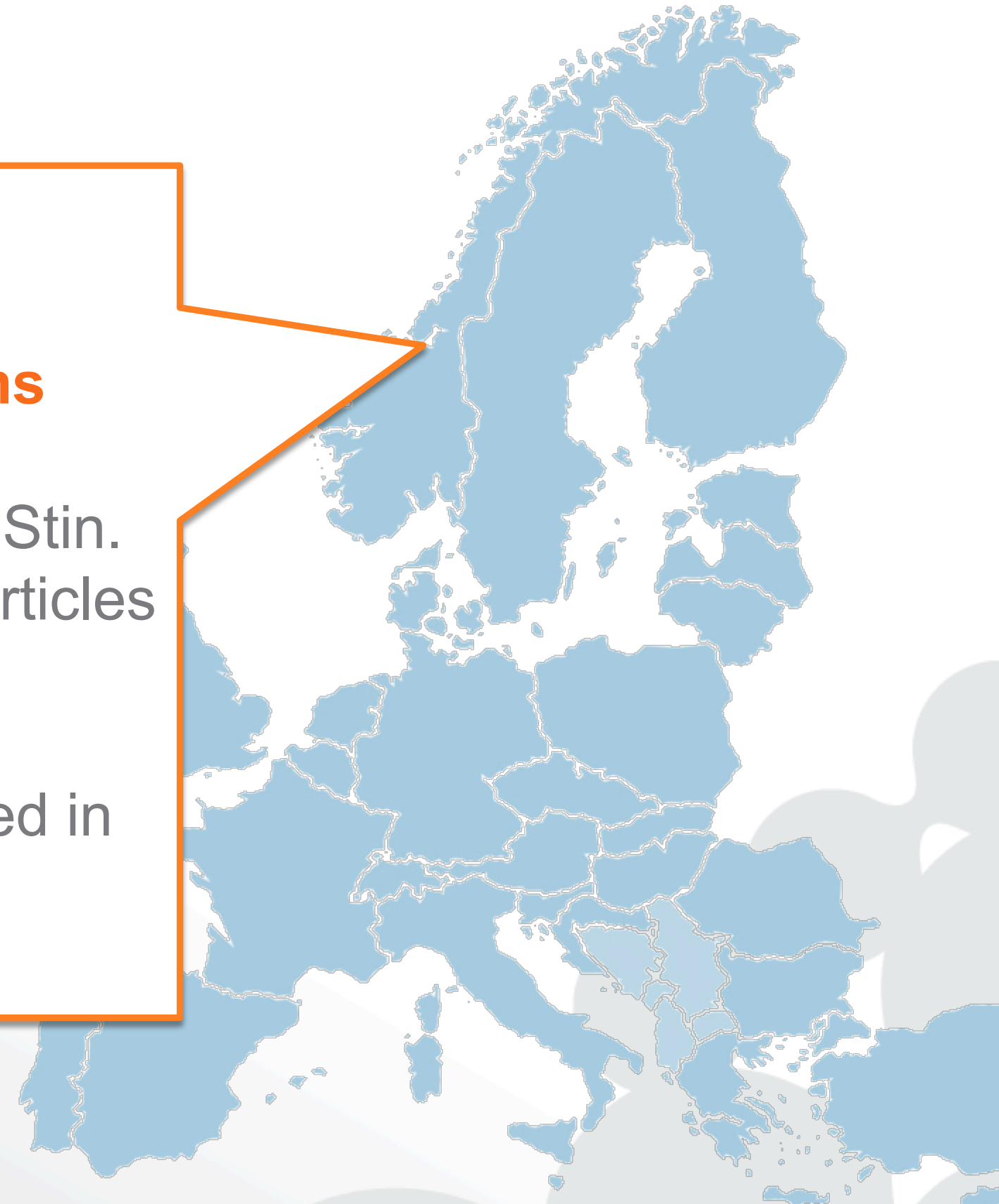
Region North

Repositories are integrated with CRIS systems

Norway: National OA responsibility lies with CRIStin. 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.
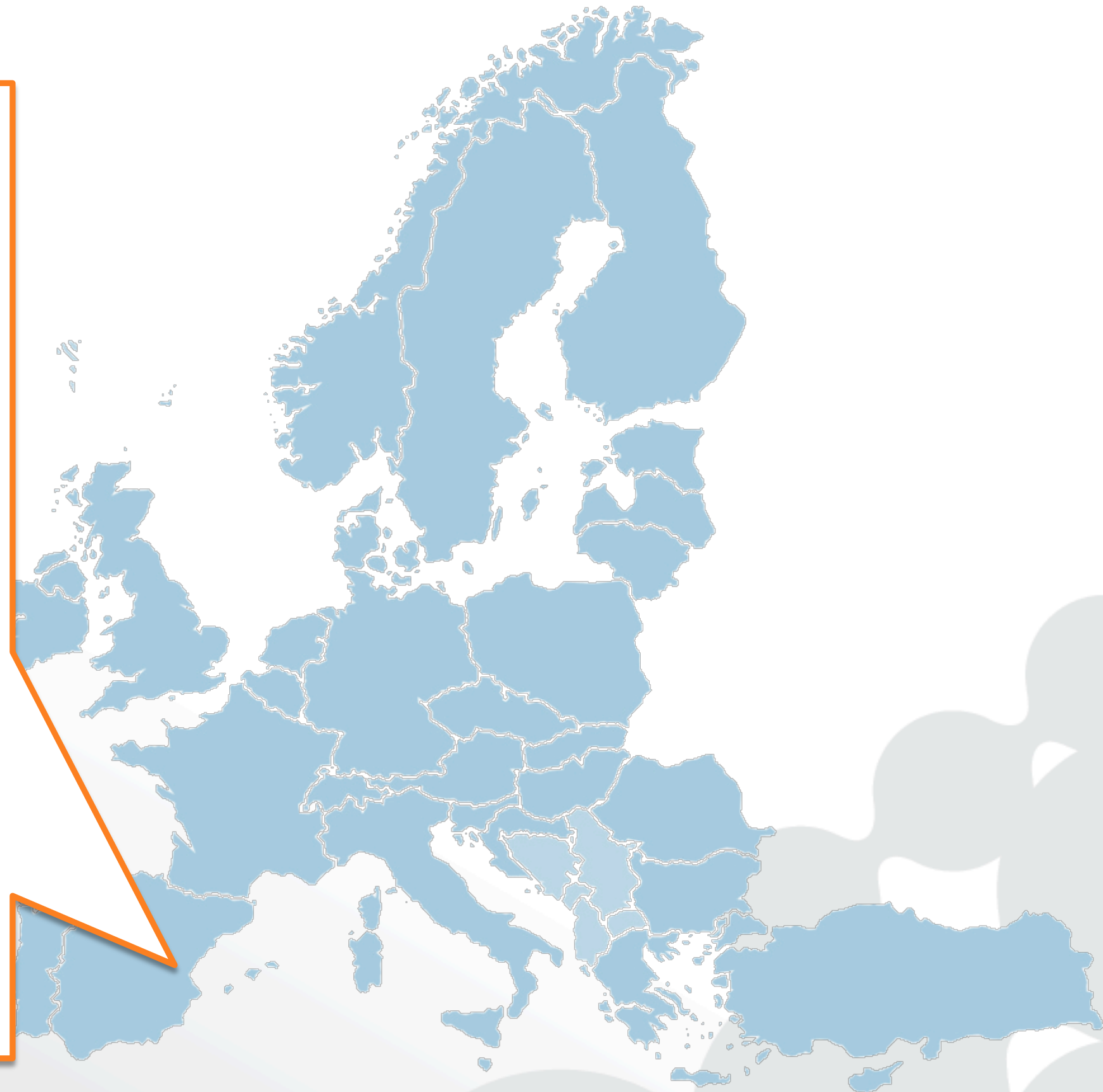
Region South

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

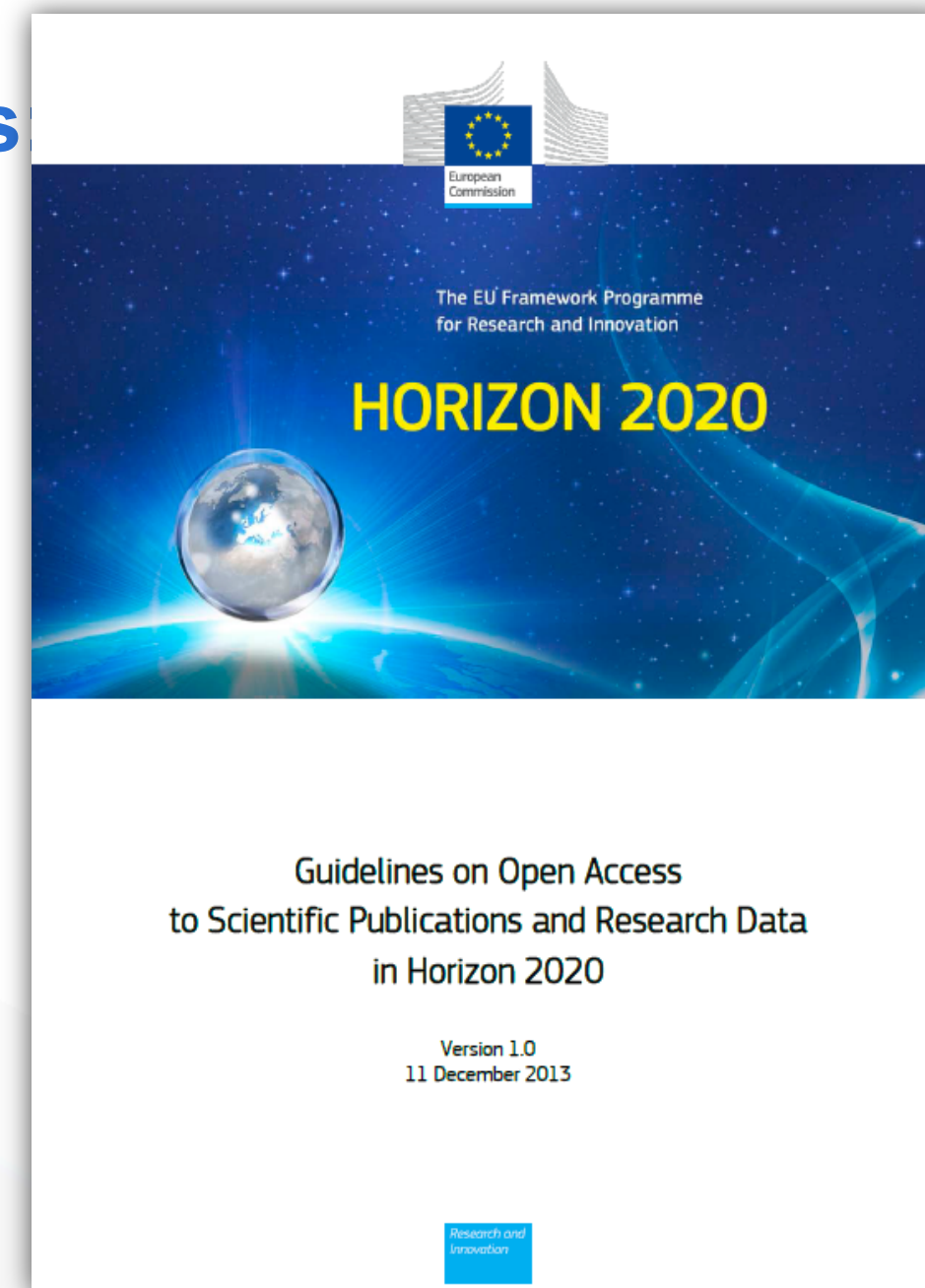**EC:** Running an Open Data Pilot – eligile projects only – RDM plan required and a workflow for the data

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**.

The EU Framework Programme for Research and Innovation

HORIZON 2020

Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020

Version 1.0
11 December 2013

Research and Innovation

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

OpenAIREplus Networking Organization

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
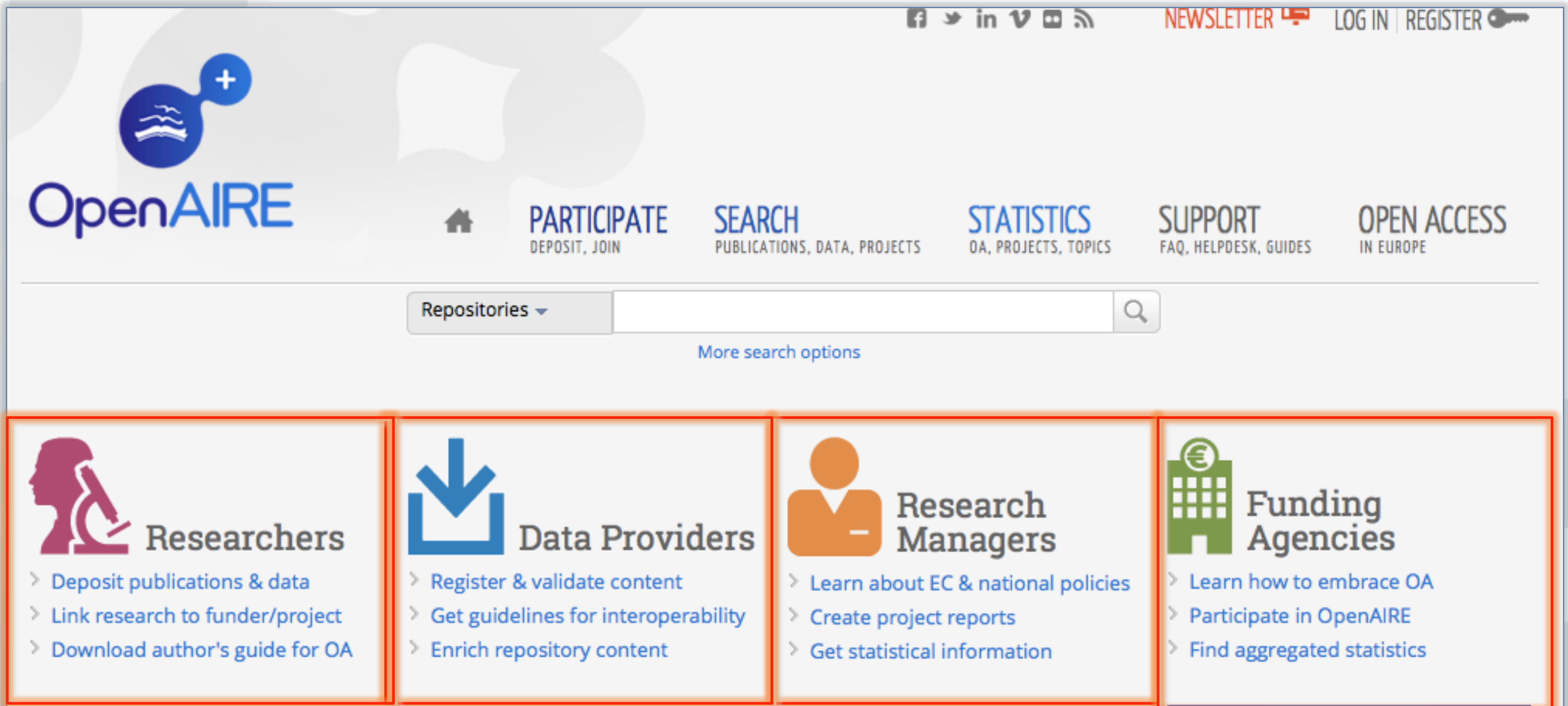
OpenAIRE representing all Member States

- **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

Zenodo

"Catch-all" repository: OpenAIRE-CERN joint effort

- **Multiple data types**
  - **Publications**
  - **Long tail of research data**

- **Citable data (DOI)**

- **Links to funding, pubs, data, software**

www.zenodo.org

API INTEGRATE YOUR APP VIA PROGRAMMABLE API.

COMMUNITIES *YOUR* DIGITAL REPOSITORY ON ZENODO.

FUNDING INTEGRATE INTO REPORTING FOR RESEARCH FUNDED BY EUROPEAN COMMISSION.

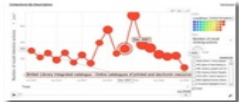**FLEXIBLE LICENSING** NOT EVERYTHING IS UNDER CREATIVE COMMONS.

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

Deposit Publications & data

Visualize - Manage Enhanced Publications

Curate & collaborate

Research impact Citations, usage statistics
+++

OpenAIRE Get support (NOADs)

help desk

Search & Browse

Linked Content Statistics
+++

Guidelines for use services

Datasets — Authors

Mine for other info

Publications — Data Providers

Mine for project

Projects — Organizations

APIs
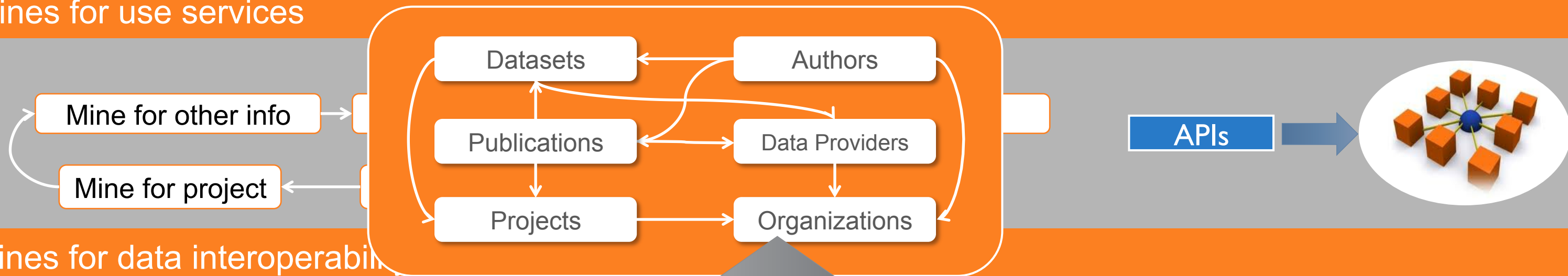
Guidelines for data interoperability

Metadata And pdfs   Usage data

Institutional CRIS Systems

EC funding
National funding

Metadata on data

Publication repositories
Institutional & Thematic
Open Access Journals

zenodo

ResearchID
OpenDOAR

Data repositories
Data Journals

CERN/OpenAIRE "catch-all" repository

Some numbers (May 20, 2014)

Datasets — Authors — Data Providers — Publications — Projects — Organizations
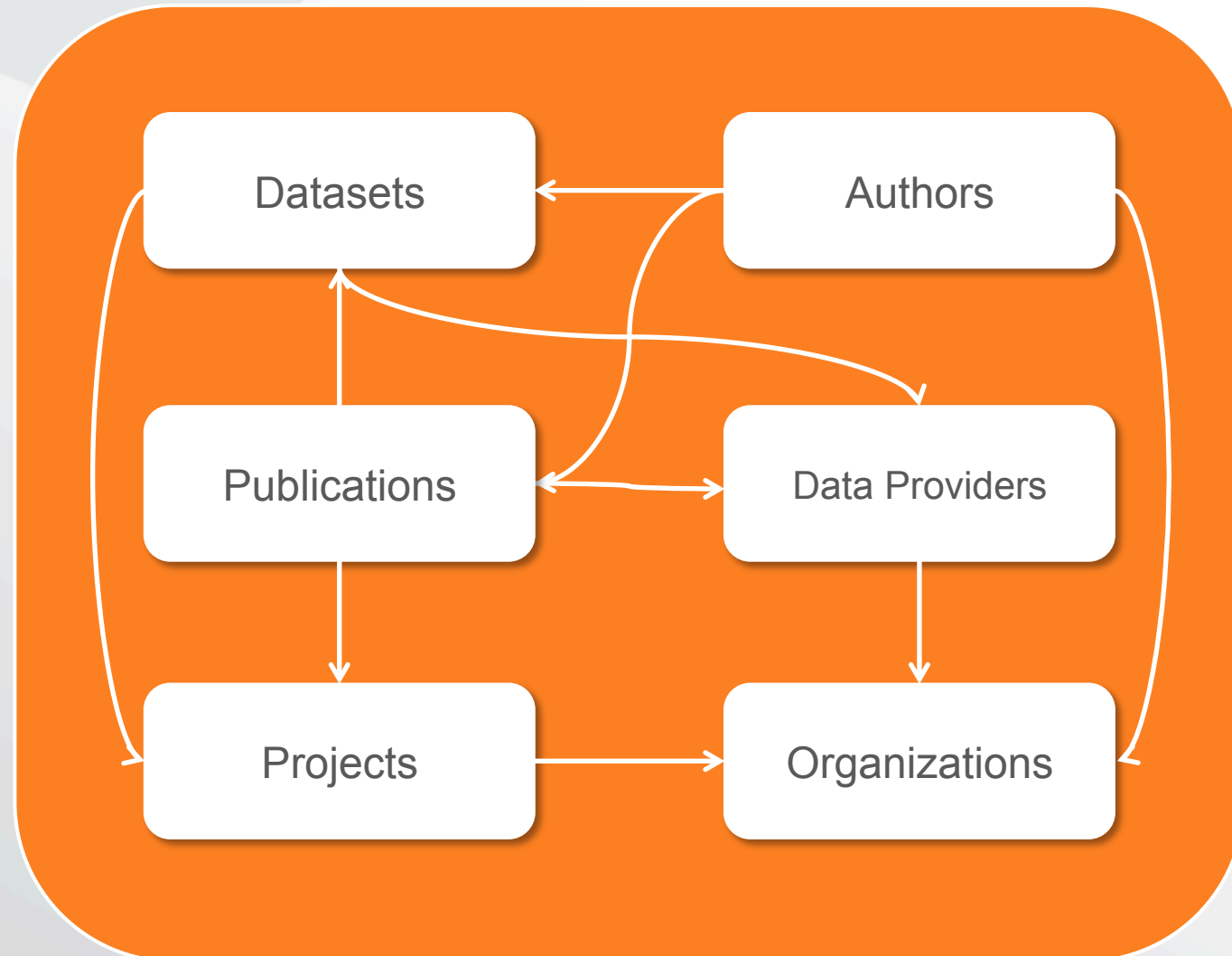
8.4 mi publications
7 mi authors
460+ data providers
Linked to 80K projects from
2 funders (EC and Wellcome Trust)
Linked to 700 datasets
33K organizations

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

Monitor scientific outcomes

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 icosahedral B(12)As(2): A spectroscopic ellipsometry and first	Bakaleva, 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
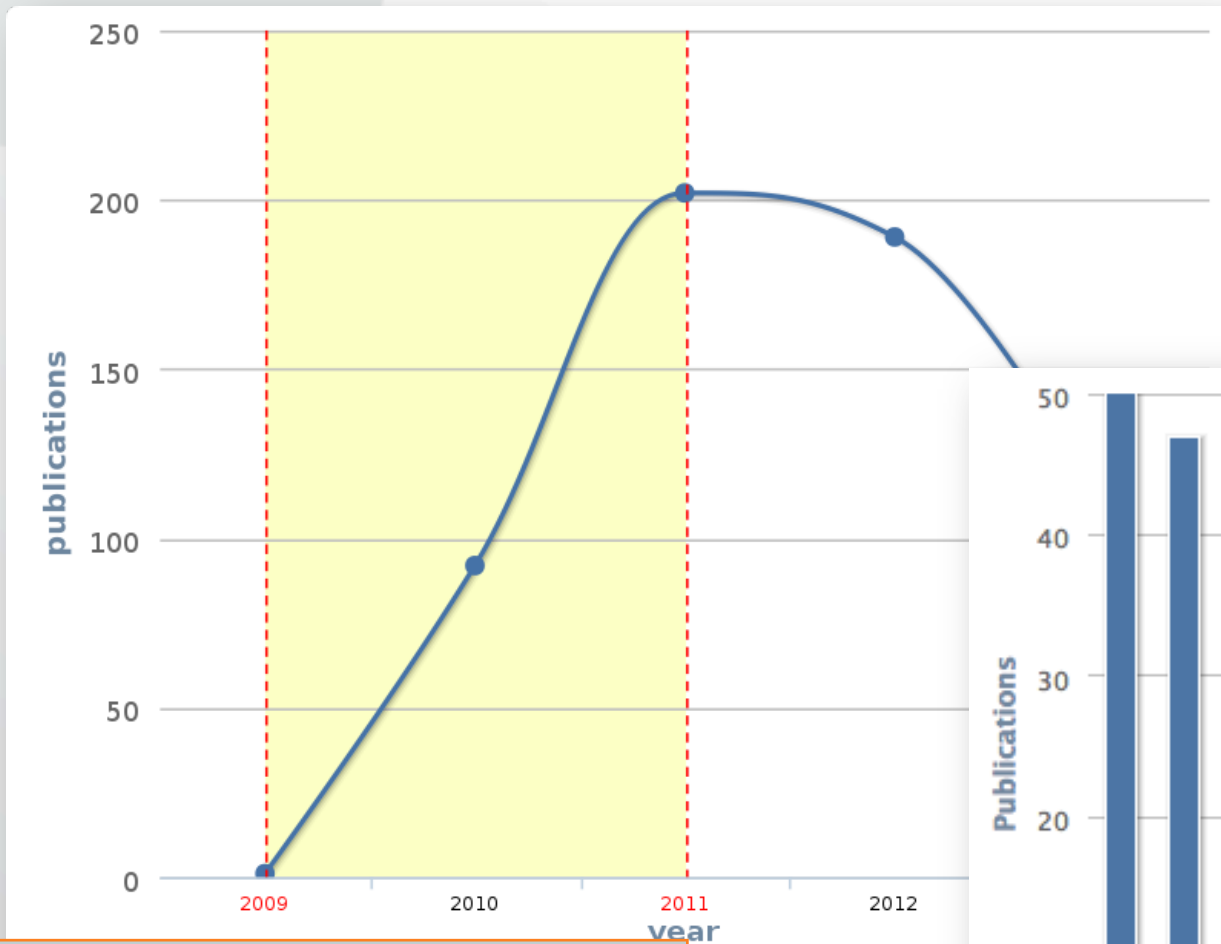
Project productivity over time
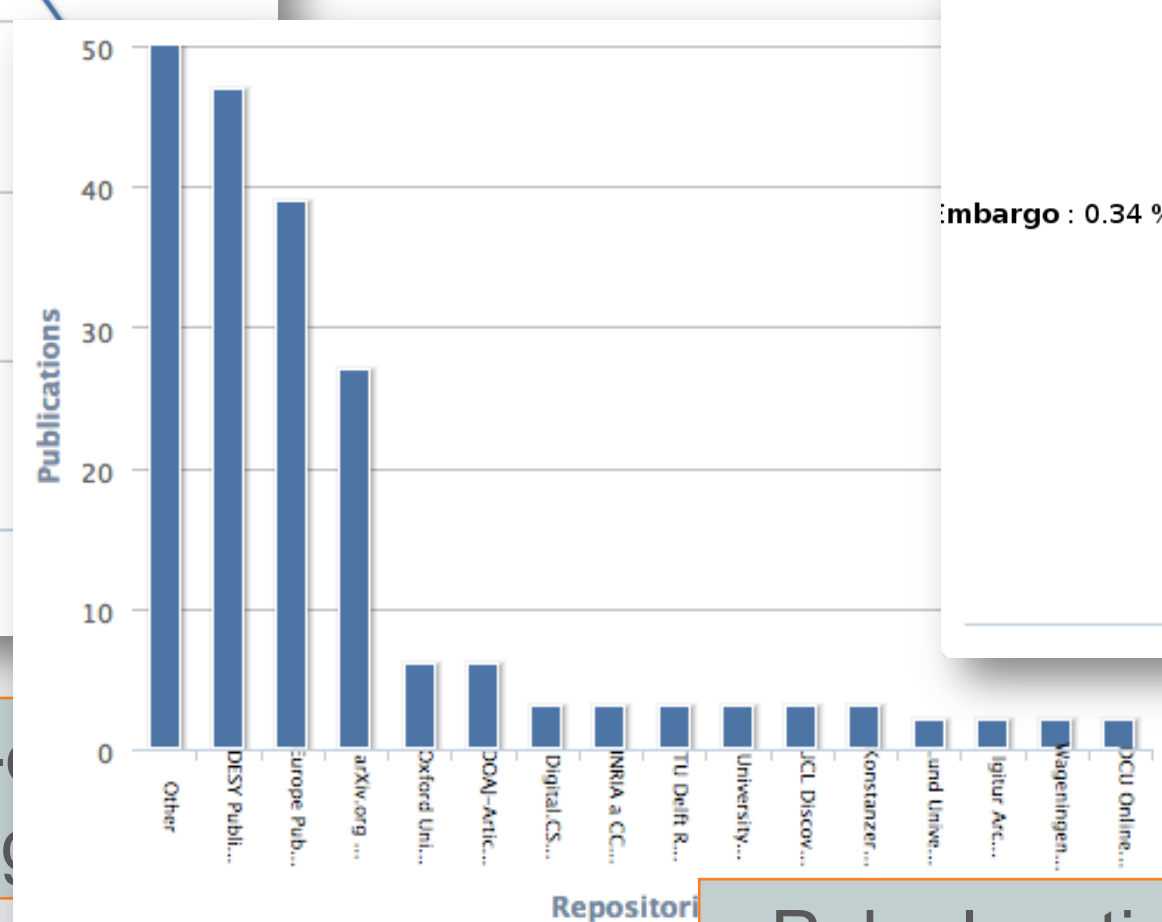
Post project-e... monitoring

Pubs location
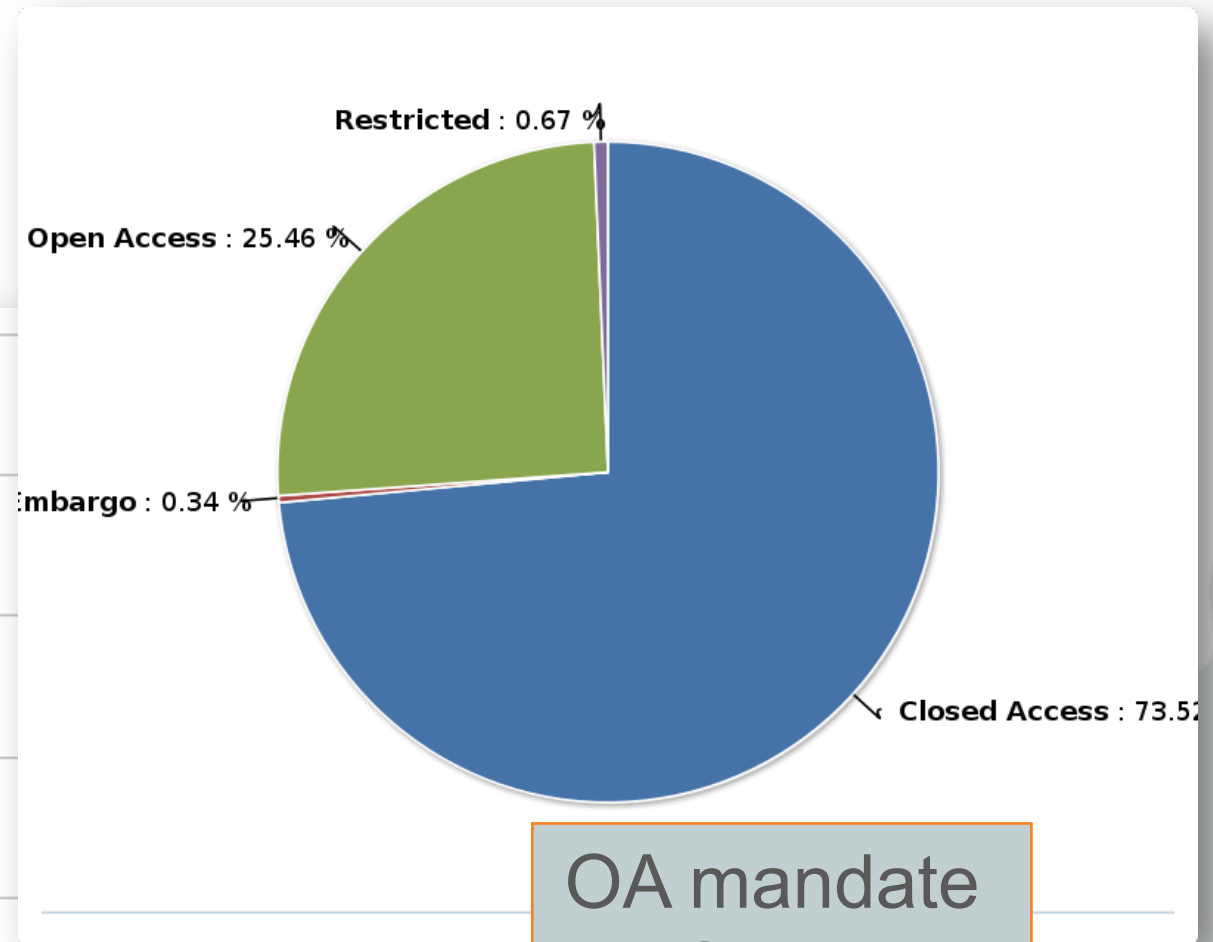
OA mandate conformance

Funders: Monitoring OA policy

FP7 publications breakdown by access mode

Restricted : 1.59 %

Open Access : 44.64 %

Closed

Embargo : 0.16 %
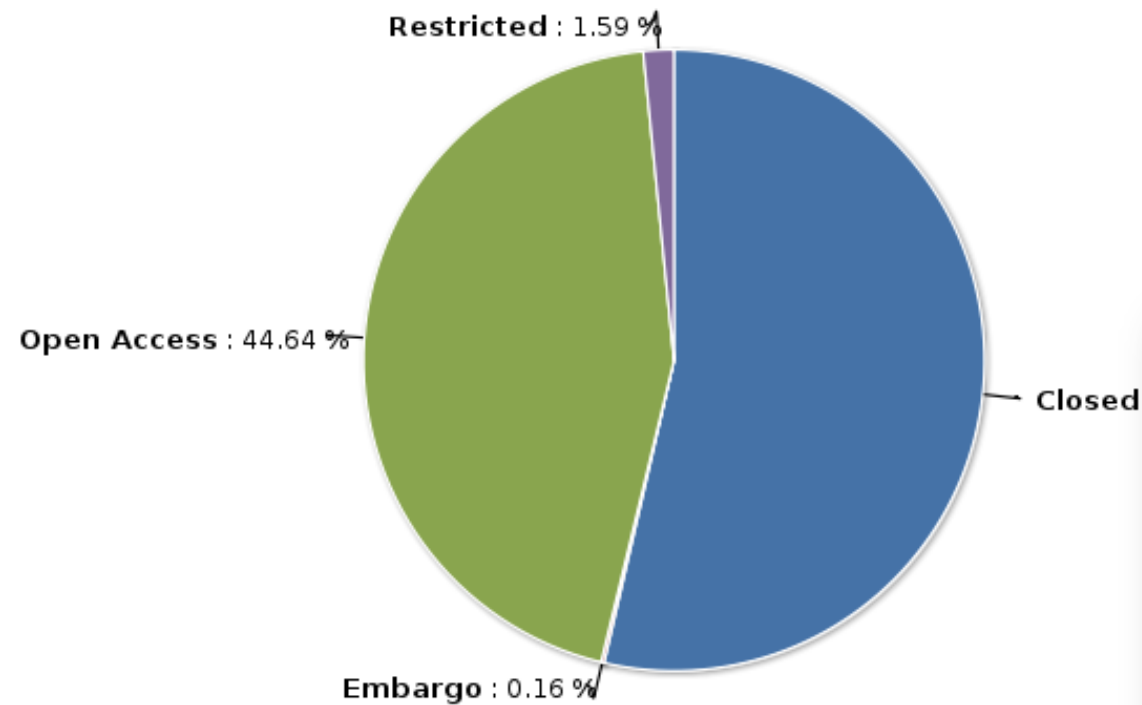
FP7

66K pubs – 7.5K projects

Publications of FP7 projects with SC39 breakdown per access mode

Restricted : 2.81 %

Open Access : 46.81 %

Closed Access : 49.90 %

Embargo : 0.48 %
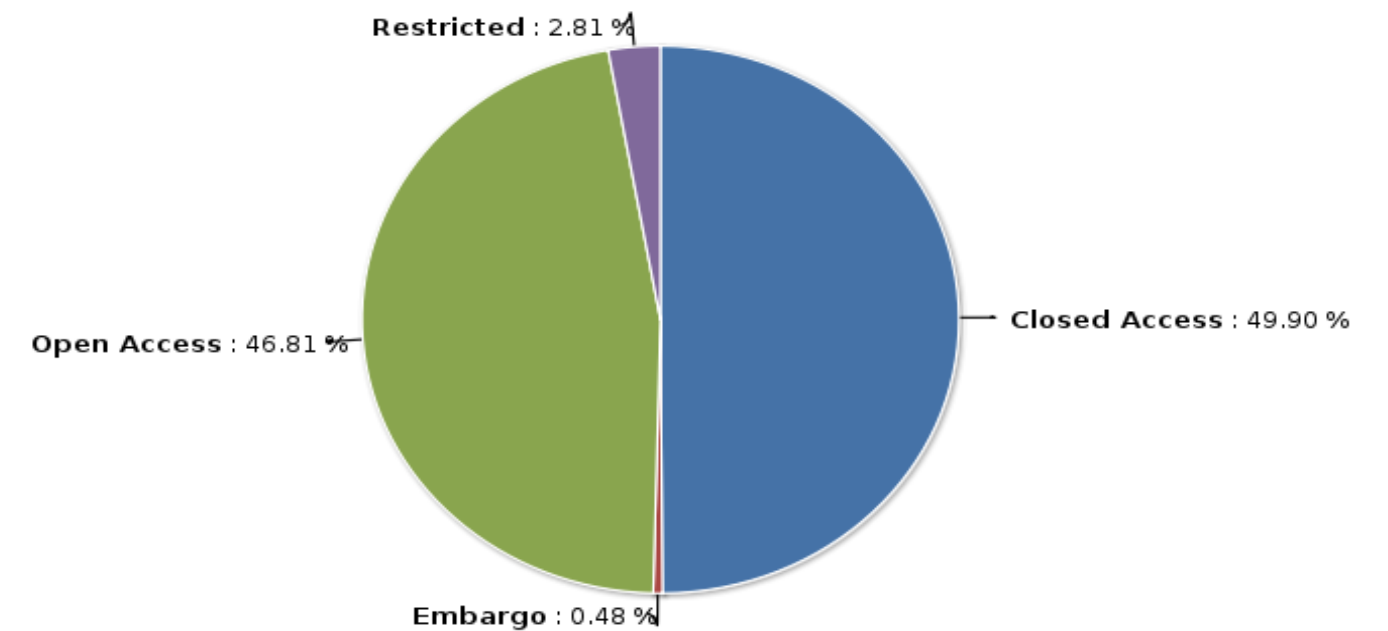
SC39: FP7 OA Pilot

8.5K pubs –725 projects

Research Output Measures

FP7 publications through the years

FP7 timeline - total

FP7 publications per scientific area
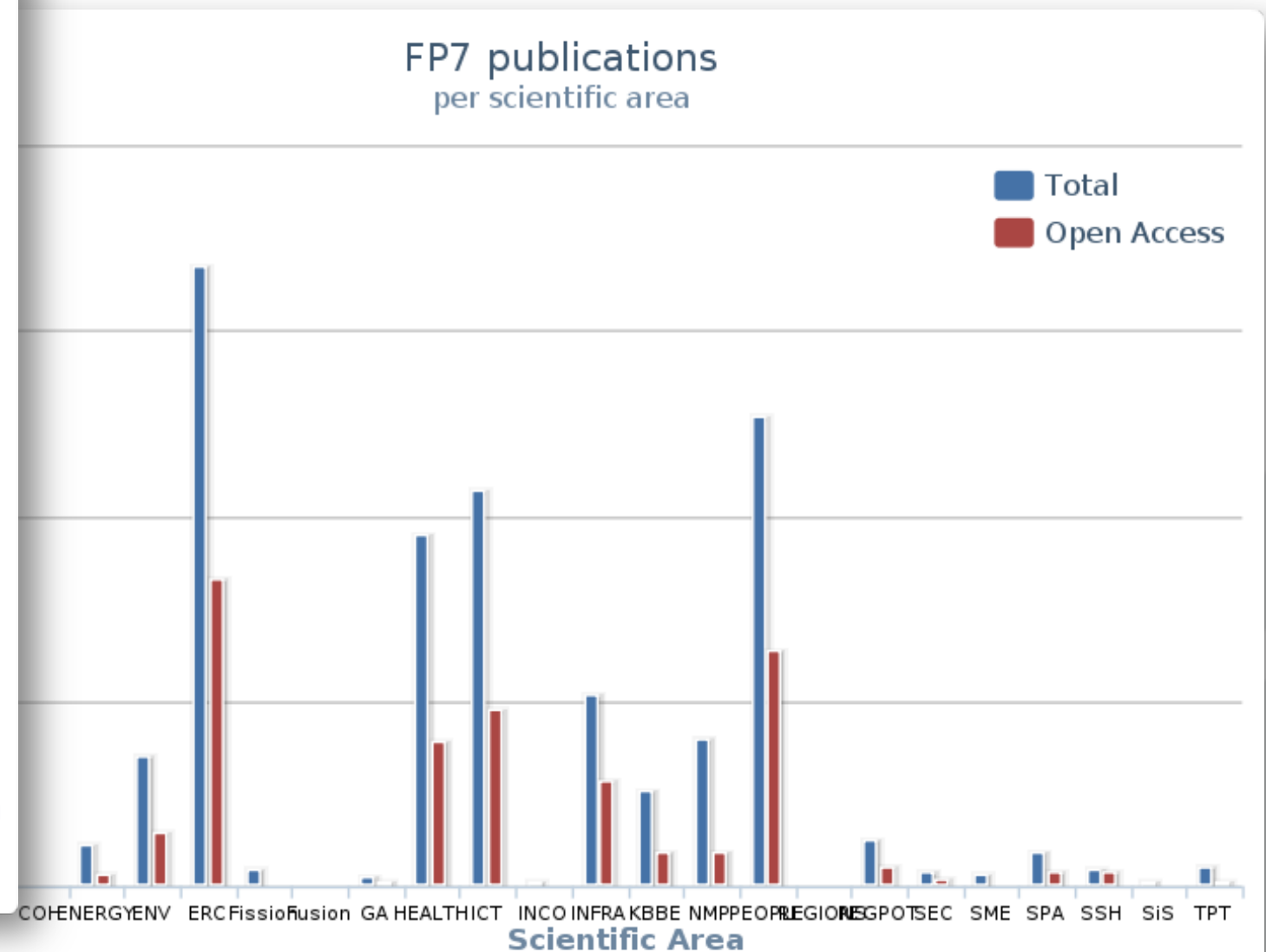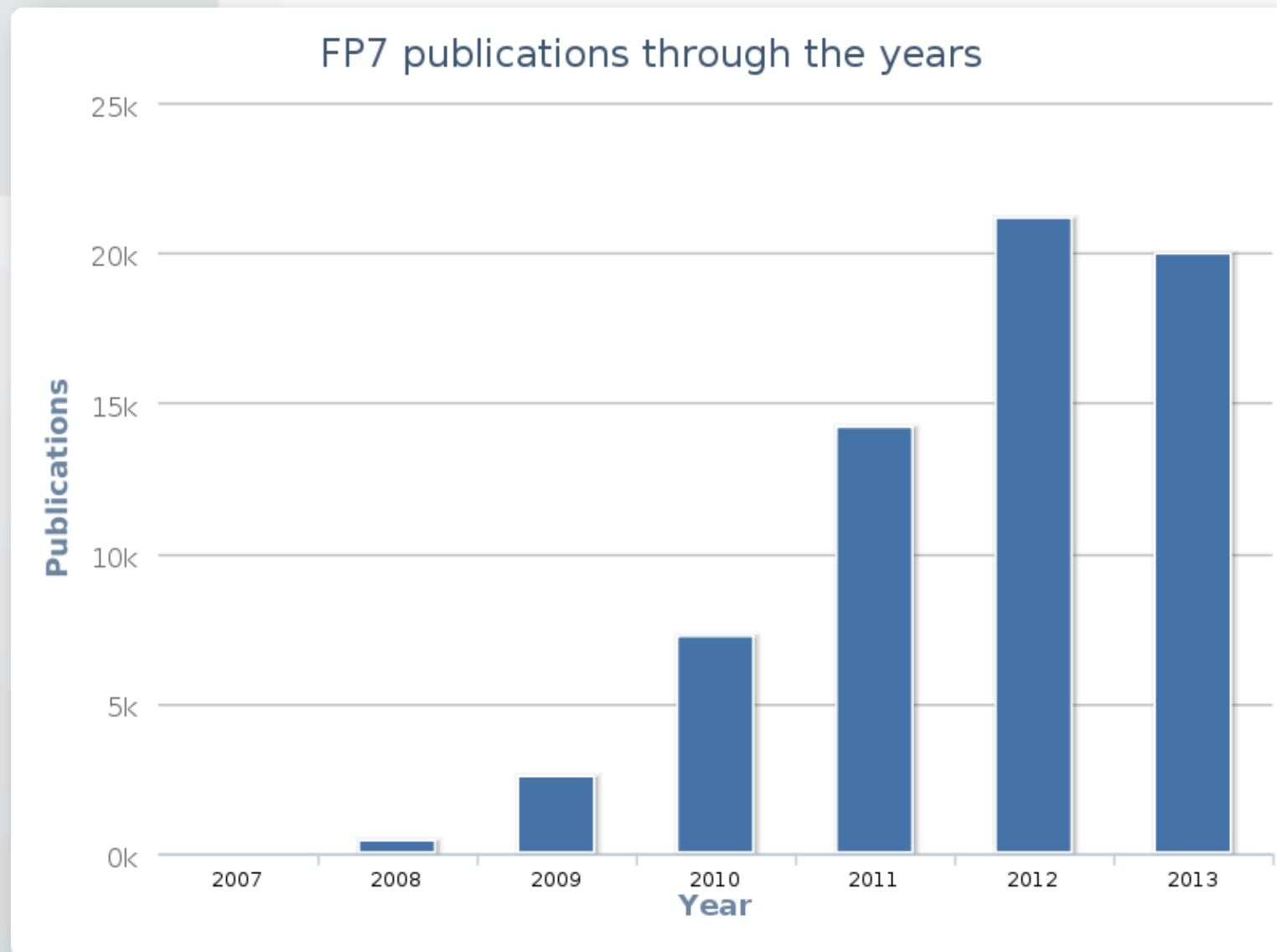
FP7 breakdowns

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 multidime **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. RDA

Thank you!

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in linkedin.com/groups/OpenAIRE-3893548

✉ **donatella.castelli@isti.cnr.it**