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OpenAIRE e-Infrastructure & Support for Open Access in FP7 and Horizon 2020

MedOANet Conference Athens, 17 October 2013









OpenAIRE Outline

- Background to the project
- Services & user groups
- How to get involved
- Towards Horizon 2020





"Open access

IS A MUST

For the competitiveness of Europe"

Neelie Kroes, the EU Commissioner for Digital Agenda



European OA Mandate

At funding level

Europe's Open Access Pilot Special Clause 39

- FP7 Funding scheme
- Seven thematic Areas (20%)
- Open access to publications
- System of deposit
- ... or pay Gold OA charges





OA to 'results of publicly funded research' 100%

Horizon 2020

EC's Communication & Recommendation, July 2012

It is not IF Open Access

It is HOW Open
Access



OpenAIRE

Building an Infrastructure to support a policy



- Cross-discipline/Horizontal infrastructure
- Measuring impact

OpenAIRE 2009 – 2012

 Implementing the FP7 OA pilot (links to EC funding) Supporting the SC39 Mandate

OpenAIREplus 2011 – 2014

- Supporting OA in <u>all</u> Europe (links to national funding)
- Providing links to research data
- Working with 3 scientific communities





OpenAIRE =

OPEN ACCESS

Publications/projects + data



Research Impact









Human infrastructure

Research is globalizing, policy implementation is at the local level



All EU member states

Challenge - Aggregate at a global level this local information

- 33 National Open Access Desks
- OA advocacy through targeted activities
- European network of people sharing experiences & best practices





Get support



Deposit

Publications

Visualize - Manage **Enhanced Publications**

Search & Browse

Classify

Cite

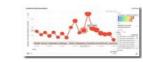


Research impact Citations, usage statistics

Linked Content Statistics





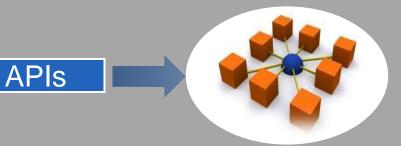


(NOADs) help desk



Link **Text Mine** De-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



ResearchID (ORCID, ..)

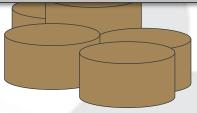
OpenDOAR

Metadata on data





Guidelines for Data Providers



Data repositories Data Journals

beta release











SEARCH PUBLICATIONS, DATA, PROJECTS

B > in V I A

SUPPORT

OPEN ACCESS

NEWSLETTER - SIGN IN REGISTER -



Search in repositories \$





- > Deposit publications & data
- > Link research to funder/project > Download author's guide for OA



- Register & validate content
- Get guidelines for interoperability
- Enrich repository content



- Learn about EC & national policies
- Create project reports
- Get statistical information



- Learn how to embrace OA
- Participate in OpenAIRE
- Find aggregated statistics

Latest News

OpenAIRE, LIBER and COAR make recommenda..

With digital data being declared as the 'new gold', the European Commission is developing a pilot to

Mark your calendar

Tue, 06:00AM -Oct 15

Oct

ODIN codesprint and conference

MedOANet European Conference

Did you know?

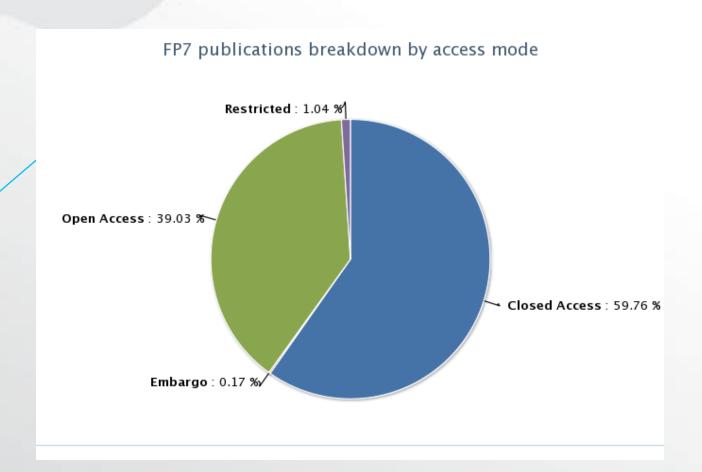
OpenAIRE Workshop: Legal and Sustainability Issues -Save the Date

THE RESIDENCE OF THE PARTY OF T



Some numbers

Within our Portal and Infrastructure



Percentage of FP7 OA Publications

- Publications
 - over 6,5 million OA + non-OA if related to a project
 - 56,700 from FP7
- Persons
 - ~ 60,000,000
- Projects
 - around 26,000 from FP7 and WT
 - + member states...
- Organizations
 - ~50,000 from OpenDOAR and CORDA







- OA share slightly higher: 41,5% (vs 39% for FP7)
- 14,064 publications in 1,515 projects (total of 3,641 projects)
- Researchers are recommended to deposit in subject repositories, currently arXiv and Europe PMC
- Some open questions for SSH based on lack of subject repositories and different publication culture (books vs journal papers)
- On-going consultation with the community





Our

USERS

Who are they?



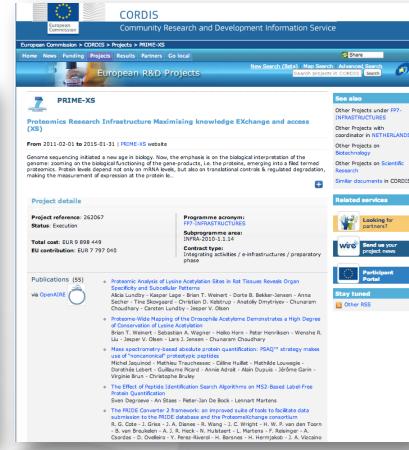
Project Coordinators

Tools to ease some workflows



- Dissemination of research output
- Reporting to the EC
- Embedding publications in CORDIS











Researchers

...We need to understand their workflows



- Benefits of Open Access
- One stop-shop for deposition publications & data
- Alerts and Notifications
- Online curation
- They have little time!

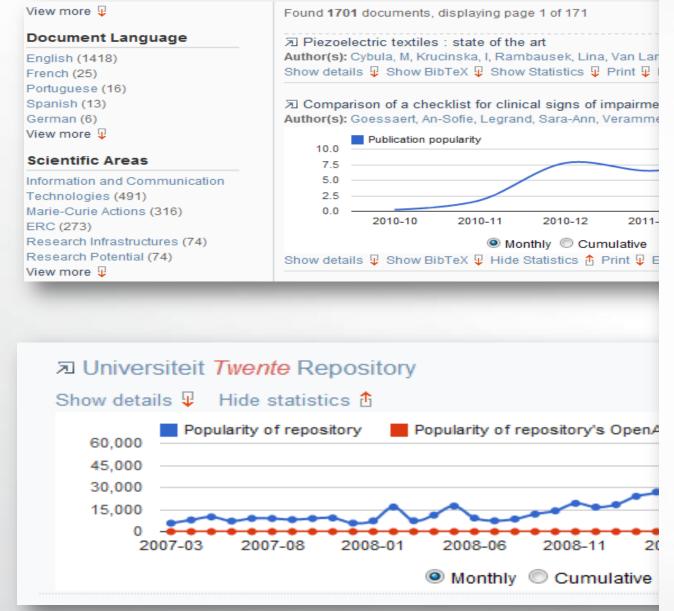


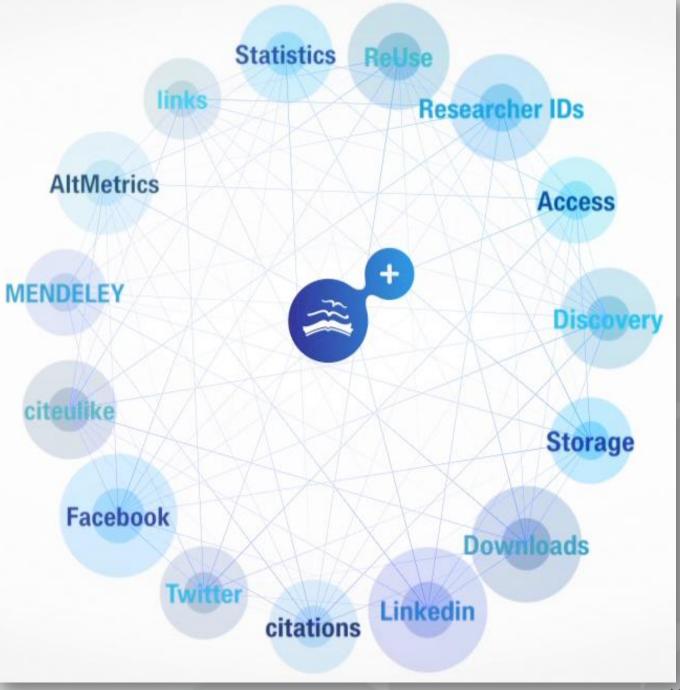




Usage statistics

... alternative measures of impact











Funders

...Measuring Impact

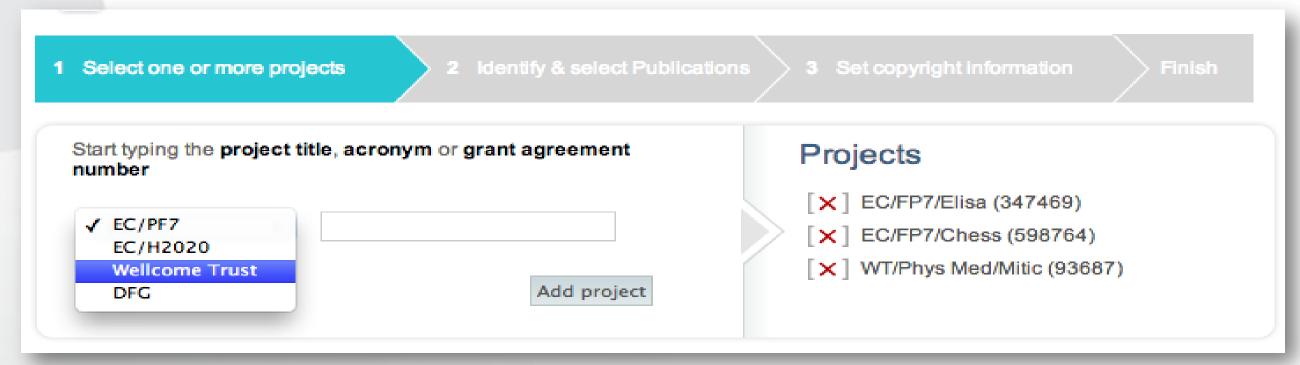


- Return on Investment
 - The money invested can be measured with output
- Tracking what they fund
 - How is this output used?
- Strengths in research areas
 - What is used and how often?
- Support for policies





Going beyond FP7 and EC



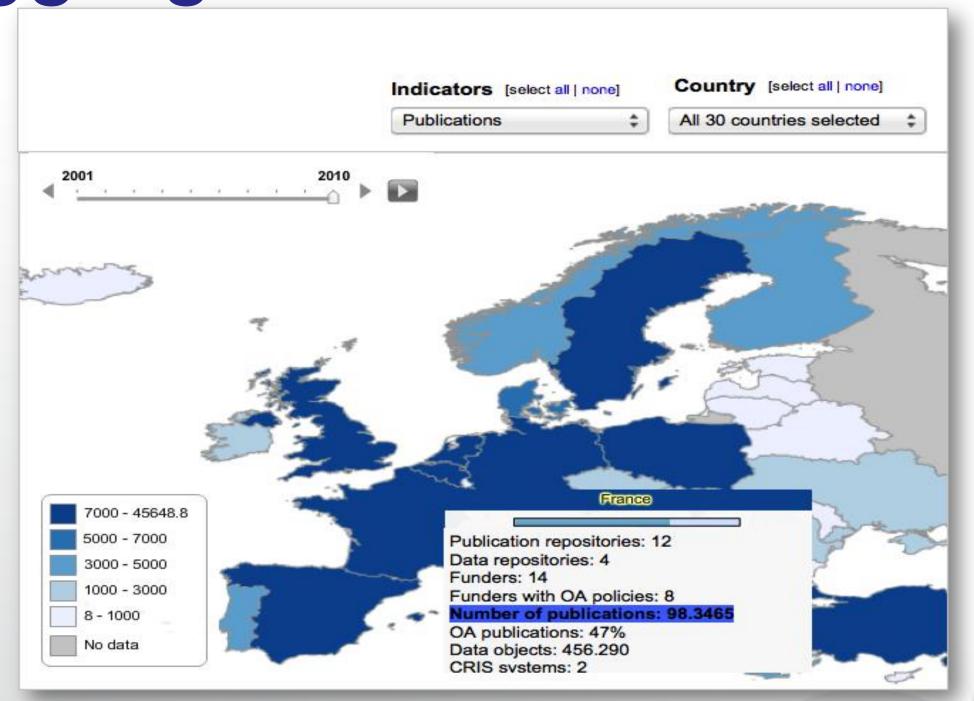
Browse		
Document Language	Project	Funder
English (507823)	UNKNOWN (4072)	FP7 (43154)
Undetermined (372027)	HADRONPHYSICS2 (538)	Wellcome Trust (4012)
French (106177)	ELISA (435)	
Spanish (62690)	UNILHC (416)	
Italian (41170)	MASSTEV (302)	







Aggregated, visual statistics









Data Providers

... interoperation through internationally accepted guidelines



- 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 as OA e-Infrastructure

Openness

- Participatory design
- Developing practices & standards together with communities

Serving stakeholders

- Easy workflows, reducing the admin burden
- Discovery and (re)use of content, linking of publications & research data

Facilitating the infrastructure

- Guidelines as the glue for interoperability
- Data curation services

Human support network

- Linking institutional, national and European levels, across stakeholders
- Promoting policies, practices = change of behavior, and infrastructures for OA





Linking DATA to publications



The "new" publication







zenodo

Research. Shared.

Search Communities Browse - Upload Get started -

Home / Publications / Pelagic community production and carbon-nutrient stoichiometry under variable ocean acidification in an Arctic fjord

Pelagic community production and carbonnutrient stoichiometry under variable ocean acidification in an Arctic fjord

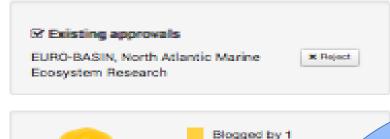
Silyakova, A.; Bellerby, R. G. J.; Schulz, K. G.; Czerny, J.; Tanaka, T.; Nondal, G.; Riebesell, U.; Engel, A.; De Lange, T.; Ludvig, A.

(show affliations):

30 July 2013

Net community production (NCP) and carbon to nutrient uptake ratios were studied during a large-scale mesocosm experiment on ocean acidification in Kongsfjorden, western Svalbard, during June-July 2010. Nutrient depleted fjord water with natural plankton assemblages, enclosed in nine mesocosms of 50m3 in volume, was exposed to pCO2 levels. ranging initially from 185 to 1420 µatm. NCP estimations are the cumulative change in dissolved inorganic carbon concentrations after accounting for gas exchange and total alkalinity variations. Stoichiometric coupling between inorganic carbon and nutrient net uptake is shown as a ratio of NCP to a cumulative change in inorganic nutrients. Phytoplankton growth was stimulated by nutrient addition half way through the experiment and three distinct peaks in chlorophyll a concentration were observed during the experiment. Accordingly, the experiment was divided in three phases. Cumulative NCP was similar in all mesocosms over the duration of the experiment. However, in phases I and II, NCP was higher and in phase III lower at elevated pCO2. Due to relatively low inorganic nutrient concentration in phase I, C :N and C : P uptake ratios were calculated only for the period after nutrient addition (phase II and phase III). For the total post-nutrient period (phase II+phase III) ratios were close to Redfield, however they were lower in phase II and higher in phase III. Variability of NCP C :N and C : P uptake ratios in different phases reflects the effect of increasing CO2 on phytoplankton community composition and succession. The phytoplankton community was composed predominantly of haptophytes in phase I, prasinophytes, dinoflagellates, and cryptophytes in phase II, and haptophytes, rasinophytes, dinoflagellates and chlorophytes in phase III (Schulz et al., 2013). Increasing ambient inorganic carbon concentrations have also been shown to promote primary production and carbon assimilation. For this study, it is clear that the pelagic ecosystem response to increasing CO2 is more complex than that represented in previous work, e.g. Bellerby et al. (2008). Carbon and nutrient uptake representation in models should, where possible, be more focused on individual plankton functional types as applying a single stoichiometry to a biogeochemical model with regard to the effect of increasing pCO2 may not always be optimal. The phase variability in NCP and stoichiometry may be better understood if CO2. sensitivities of the plankton's functional type biogeochemical uptake kinetics and trophic interactions are better constrained.







SOCIAL MEDIA ATTENTION

Publication date:

30 July 2013

10.5194/bg-10-4847-2013

Report number(s):

OpenAIRE-EPOCA-2013-001 OpenAIRE-EURO_BASIN-2013-010 OpenAIRE-MEECE-2013-004

Keyword(s):

Ocean Acidification | carbon-nutrient stoichio

Published in:

Biogeosciences (Online): 10 (2013) pp. 49

EPOCA - European Project

(211384)

EURO-BASIN asin-scale

Analysi Integration (EURO-BASIN)

E - Marine Ecosystem Evolution in a

Changing Environment (212085)

Collections

Communities > EURO-BASIN, North Atlantic

Marine Ecosystem Research

Communities > European Commission Funded

Research (OpenAIRE)

Publications > Journal articles

Open Access

Uploaded by:

Ivo Grigorov (on 03 September 2013)

THE MANUSCRIPT and DATA,
FREE & NOW

Towards HORIZON 2020



Opportunities & Challenges ahead

- The How To's of Open Access to research data
 - Same principle: think cross-Europe and combine infrastructure with support
 - Roles and responsibilities in the institutions an evolving area
 - Combining activity strands infra, support/training, policy: OpenAIRE,
 LIBER, RECODE, FOSTER, PASTEUR4OA, others
- Further extension & sustainability planning
 - On-going study analyzes stakeholders and will develop a business plan for OpenAIRE
 - Management of relationships with data providers and e-infras (formal agreements etc.)







Open Data Pilot in Horizon 2020

Joint statement by OpenAIRE, LIBER, COAR – June 2013

- Raise awareness among researchers about need for and benefits of RDM
- Encourage libraries, data centres, publishers and stakeholders to work with researchers throughout the data lifecycle
- Identify required expertise, knowledge, skills
- Support the creation & interoperability of reliable e-infras
- Mobilise libraries to support scientific communities
- Provide the EC with evidence for decision making







See you Again!

Vilnius ICT 5th November: Networking Booth

Vilnius 5th November: Workshop on 'Legal and Sustainability' Issues



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in linkedin.com/groups/OpenAIRE-3893548



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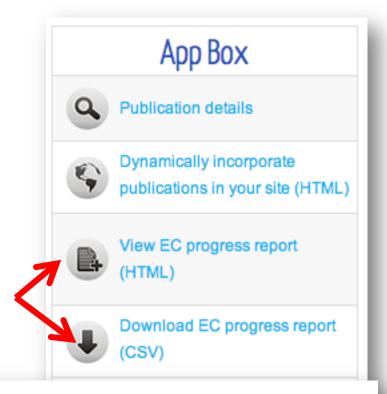






OpenAIRE Project apps

Get all project publication in HTML or CSV to use in EC reporting



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	Dalralava C	AMED DUVSICAL SOC	2010.01.01	http://dv.doi.org/10.1103/DhysDavD.91.075114	CI OSED	



