Horizon 2020

Call: H2020-EINFRA-2014-1

Topic: EINFRA-2-2014

Type of action: RIA

Proposal number: SEP-210148861

Proposal acronym: OpenAIRE2020

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How to fill in the forms

The administrative forms must be filled in for each proposal using the templates available in the submission system. Some data fields in the administrative forms are pre-filled based on the previous steps in the submission wizard.

| Proposal ID **643410** | | *Acronym* **OpenAIRE2020** |

1 - General information

| Topic | EINFRA-2-2014 | Type of action | RIA |

| Call identifier | H2020-EINFRA-2014-1 | | Acronym | OpenAIRE2020 |

Proposal title*   Open Access Infrastructure for Research in Europe 2020

Note that for technical reasons, the following characters are not accepted in the Proposal Title and will be removed: < > " &

Duration in months   *42*

Fixed keyword 1   *Open access*   [Add]

Free keywords   *Open Access Infrastructure, Research Information System, Monitoring Open Access Scientific Outcomes, Gold Open Access Pilot*

Abstract

OpenAIRE2020 represents a pivotal phase in the long-term effort to implement and strengthen the impact of the Open Access (OA) policies of the European Commission (EC), building on the achievements of the OpenAIRE projects. OpenAIRE2020 will expand and leverage its focus from (1) the agents and resources of scholarly communication to workflows and processes, (2) from publications to data, software, and other research outputs, and the links between them, and (3) strengthen the relationship of European OA infrastructures with other regions of the world, in particular Latin America and the U.S. Through these efforts OpenAIRE2020 will truly support and accelerate Open Science and Scholarship, of which Open Access is of fundamental importance.

OpenAIRE2020 continues and extends OpenAIRE's scholarly communication infrastructure to manage and monitor the outcomes of EC-funded research. It combines its substantial networking capacities and technical capabilities to deliver a robust infrastructure offering support for the Open Access policies in Horizon 2020, via a range of pan-European outreach activities and a suite of services for key stakeholders. It provides researcher support and services for the Open Data Pilot and investigates its legal ramifications. The project offers to national funders the ability to implement OpenAIRE services to monitor research output, whilst new impact measures for research are investigated. OpenAIRE2020 engages with innovative publishing and data initiatives via studies and pilots. By liaising with global infrastructures, it ensures international interoperability of repositories and their valuable OA contents.

To ensure sustainability and long-term health for the overall OpenAIRE infrastructure, the proposed OpenAIRE2020 project will establish itself as a legal entity, which will manage the production-level responsibilities securing 24/7 reliability and continuity to all relevant user groups, data providers and other stakeholders.

Remaining characters   9

Has this proposal (or a very similar one) been submitted in the past 2 years in response to a call for proposals under the 7th Framework Programme, Horizon 2020 or any other EU programme(s)?   ◯ Yes   ◉ No

Proposal ID	**643410**		*Acronym*	**OpenAIRE2020**

Declarations

1) The coordinator declares to have the explicit consent of all applicants on their participation and on the content of this proposal.	☒
2) The information contained in this proposal is correct and complete.	☒
3) This proposal complies with ethical principles (including the highest standards of research integrity — as set out, for instance, in the European Code of Conduct for Research Integrity — and including, in particular, avoiding fabrication, falsification, plagiarism or other research misconduct).	☒

4) The coordinator confirms:

- to have carried out the self-check of the financial capacity of the organisation on https://ec.europa.eu/research/participants/portal4/desktop/en/organisations/lfv.html. Where the result was "weak" or "insufficient", the coordinator confirms being aware of the measures that may be imposed in accordance with the H2020 Grants Manual (Chapter on Financial capacity check); or	☐
- is exempt from the financial capacity check being a public body including international organisations, higher or secondary education establishment or a legal entity, whose viability is guaranteed by a Member State or associated country, as defined in the H2020 Grants Manual (Chapter on Financial capacity check); or	☒
- as sole participant in the proposal is exempt from the financial capacity check.	☐

5) The coordinator hereby declares that each applicant has confirmed:

- they are fully eligible in accordance with the criteria set out in the specific call for proposals; and	☒
- they have the financial and operational capacity to carry out the proposed action.	☒

The coordinator is only responsible for the correctness of the information relating to his/her own organisation. Each applicant remains responsible for the correctness of the information related to him and declared above. Where the proposal to be retained for EU funding, the coordinator and each beneficiary applicant will be required to present a formal declaration in this respect.

According to Article 131 of the Financial Regulation of 25 October 2012 on the financial rules applicable to the general budget of the Union (Official Journal L 298 of 26.10.2012, p. 1) and Article 145 of its Rules of Application (Official Journal L 362, 31.12.2012, p.1) applicants found guilty of misrepresentation may be subject to administrative and financial penalties under certain conditions.

Personal data protection

Your reply to the grant application will involve the recording and processing of personal data (such as your name, address and CV), which will be processed pursuant to Regulation (EC) No 45/2001 on the protection of individuals with regard to the processing of personal data by the Community institutions and bodies and on the free movement of such data. Unless indicated otherwise, your replies to the questions in this form and any personal data requested are required to assess your grant application in accordance with the specifications of the call for proposals and will be processed solely for that purpose. Details concerning the processing of your personal data are available on the privacy statement. Applicants may lodge a complaint about the processing of their personal data with the European Data Protection Supervisor at any time.

Your personal data may be registered in the Early Warning System (EWS) only or both in the EWS and Central Exclusion Database (CED) by the Accounting Officer of the Commission, should you be in one of the situations mentioned in:
-the Commission Decision 2008/969 of 16.12.2008 on the Early Warning System (for more information see the Privacy Statement), or
-the Commission Regulation 2008/1302 of 17.12.2008 on the Central Exclusion Database (for more information see the Privacy Statement) .

2 - Administrative data of participating organisations

PIC   *Legal name*

999643007   *NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS*

Short name: UoA

Address of the organisation

        Street   CHRISTOU LADA 6

        Town   ATHENS

    Postcode   10561

     Country   Greece

    Webpage   www.elke.uoa.gr

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation ……………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ………………………… yes

Small and Medium-sized Enterprises (SMEs) ……. no

 Nace code

Department(s) carrying out the proposed work

Department 1

Department name | Informatics & Telecommunications

Street | Panepistimiopolis

☐ Same as organisation address

Town | Ilisia

Postcode | 15784

Country | Greece

Dependencies with other proposal participants

Character of dependence	*Participant*	

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Prof.

Sex   ◉ Male   ○ Female

First name   **MICHAEL**   Last name   **Chatzopoulos**

E-Mail   **mike@di.uoa.gr**

Position in org.   Professor

Department   Informatics & Telecommunications

Street   Panepistimiopolis   ☐ Same as organisation address

Town   Ilisia   Post code   15784

Country   Greece

Website   www.di.uoa.gr

Phone   +30 2107275203   Phone 2   *+xxx xxxxxxxxx*   Fax   +30 2107275214

Other contact persons

First Name	Last Name	E-mail	Phone
Natalia	Manola	natalia@di.uoa.gr	
Eleni	Koulocheri	ekoulocheri@di.uoa.gr	

PIC
999845640

Legal name
GEORG-AUGUST-UNIVERSITAET GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS

Short name: UGOE

Address of the organisation

Street   WILHELMSPLATZ 1

Town   GOTTINGEN

Postcode   37073

Country   Germany

Webpage   http://www.uni-goettingen.de

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | Goettingen State and University Library

Street | Platz der Goettinger Sieben 1   ☐ Same as organisation address

Town | Goettingen

Postcode | 37073

Country | Germany

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title | Prof.

Sex   ● Male   ○ Female

First name **Norbert**   Last name **Lossau**

E-Mail **norbert.lossau@zvw.uni-goettingen.de**

Position in org. | Vice-President of University

Department | Presidential Board

Street | WILHELMSPLATZ 1   ☒ Same as organisation address

Town | GOTTINGEN   Post code | 37073

Country | Germany

Website | http://www.uni-goettingen.de

Phone | +49-551-39-12183   Phone 2 | +49-551-39-4320   Fax | *+XXX XXXXXXXXX*

Other contact persons

First Name	Last Name	E-mail	Phone
Birgit	Schmidt	bschmidt@sub.uni-goettingen.de	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999979500   *CONSIGLIO NAZIONALE DELLE RICERCHE*

Short name: CNR

Address of the organisation

Street   PIAZZALE ALDO MORO 7

Town   ROMA

Postcode   00185

Country   Italy

Webpage   www.cnr.it

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name | ISTI - Istituto di Scienza e Tecnologie dell'Informazione

Street | Via A. Moruzzi, 1   ☐ Same as organisation address

Town | Pisa

Postcode | 56124

Country | Italy

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym* **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title | Dr. | Sex | ○ Male ◉ Female

First name **Donatella**   Last name **Castelli**

E-Mail **donatella.castelli@isti.cnr.it**

Position in org. | Senior Researcher

Department | ISTI - Istituto di Scienza e Tecnologie dell'Informazione

Street | Via A. Moruzzi, 1   ☐ Same as organisation address

Town | Pisa   Post code | 56124

Country | Italy

Website | http://www.isti.cnr.it

Phone | +39 050-315.2902   Phone 2 | +39 050-315.2912   Fax | +39 050-315.3464

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999572294   *UNIWERSYTET WARSZAWSKI*

Short name: ICM

Address of the organisation

Street   KRAKOWSKIE PRZEDMIESCIE 26/28

Town   WARSAW

Postcode   00927

Country   Poland

Webpage   www.uw.edu.pl

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name   ICM

Street   Prosta 69   ☐ Same as organisation address

Town   Warszawa

Postcode   02-106

Country   Poland

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**		*Acronym*	**OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Mr.

Sex ● Male ○ Female

First name **Wojtek**

Last name **Sylwestrzak**

E-Mail **w.sylwestrzak@icm.edu.pl**

Position in org. vice director

Department ICM

Street Prosta 69 II p

☐ Same as organisation address

Town Warszawa

Post code 00-838

Country Poland

Website www.ceon.pl

Phone +48228749100

Phone 2 *+xxx xxxxxxxxx*

Fax +48228749401

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999988133   *EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH*

Short name: CERN

Address of the organisation

Street   ROUTE DE MEYRIN CERN

Town   GENEVA 23

Postcode   1211

Country   Switzerland

Webpage   www.cern.ch

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation ……………………… yes

International organisation of European interest …… yes

Secondary or Higher education establishment ……. no

Research organisation ………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name   Information Technology

Street   ROUTE DE MEYRIN CERN   ⊠ Same as organisation address

Town   GENEVA 23

Postcode   1211

Country   Switzerland

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Dr.   Sex   ⦿ Male   ◯ Female

First name **Tim**   Last name **Smith**

E-Mail **tim.smith@cern.ch**

Position in org. Head, Collaboration and Information Services

Department Information Technology

Street ROUTE DE MEYRIN CERN   ⊠ Same as organisation address

Town GENEVA 23   Post code 1211

Country Switzerland

Website http://cern.ch/Tim.Smith

Phone +41227673713   Phone 2 *+XXX XXXXXXXXX*   Fax *+XXX XXXXXXXXX*

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*

999562788   *ATHENA RESEARCH AND INNOVATION CENTER IN INFORMATION COMMUNICATION & KNOWL*

Short name: ARC

Address of the organisation

Street   ARTEMIDOS 6 KAI EPIDAVROU

Town   MAROUSSI

Postcode   151 25

Country   Greece

Webpage   www.athena-innovation.gr

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… no   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name   IMIS

Street   ARTEMIDOS 6 KAI EPIDAVROU   ☒ Same as organisation address

Town   MAROUSSI

Postcode   151 25

Country   Greece

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Prof.

Sex   ⦿ Male   ◯ Female

First name **Yannis**

Last name **Ioannidis**

E-Mail **yannis.ioannidis@imis.athena-innovation.gr**

Position in org. President of the Board of Athena

Department Athena Research & Innovation Center

Street ARTEMIDOS 6 KAI EPIDAVROU

☒ Same as organisation address

Town MAROUSSI   Post code 151 25

Country Greece

Website www.athena-innovation.gr

Phone +30 2106875300   Phone 2 +30 2106875302   Fax +30 2106854270

Proposal ID **643410**	Acronym	**OpenAIRE2020**

PIC	*Legal name*
999854370	*UNIVERSITAET BIELEFELD*

Short name: UNIBI

Address of the organisation

Street   UNIVERSITAETSSTRASSE 25

Town   BIELEFELD

Postcode   33615

Country   Germany

Webpage   www.uni-bielefeld.de

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name   University Library

Street   UNIVERSITAETSSTRASSE 25   ☒ Same as organisation address

Town   BIELEFELD

Postcode   33615

Country   Germany

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Mr.   Sex   ⦿ Male   ◯ Female

First name   **Jochen**   Last name   **Schirrwagen**

E-Mail   **jochen.schirrwagen@uni-bielefeld.de**

Position in org.   Research Associate

Department   University Library

Street   UNIVERSITAETSSTRASSE 25   ⊠ Same as organisation address

Town   BIELEFELD   Post code   33615

Country   Germany

Website   http://www.ub.uni-bielefeld.de

Phone   +49 521 106-4051   Phone 2   +49 521 106-4047   Fax   +49 521 106-4052

Other contact persons

First Name	Last Name	E-mail	Phone
Najko	Jahn	najko.jahn@uni-bielefeld.de	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC	*Legal name*
999995505	*UNIVERSIDADE DO MINHO*

Short name: UMINHO

Address of the organisation

Street	Largo do Paco
Town	BRAGA
Postcode	4704 553
Country	Portugal
Webpage	www.uminho.pt

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name   Documentation Services

Street   Campus de Gualtar   ☐ Same as organisation
                                                            address

Town   Braga

Postcode   4710-057

Country   Portugal

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**	Acronym	**OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Mr.   Sex   ⦿ Male   ○ Female

First name **Eloy**   Last name **Rodrigues**

E-Mail **eloy@sdum.uminho.pt**

Position in org. Director

Department Documentation Services

Street Campus de Gualtar   ☐ Same as organisation address

Town Braga   Post code 4710-057

Country Portugal

Website http://www.sdum.uminho.pt

Phone +351253604150   Phone 2 +351253604983   Fax +351253604159

Other contact persons

First Name	Last Name	E-mail	Phone
Pendro	Pricipe	pedroprincipe@sdum.uminho.pt	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
996479546   *STICHTING EIFL.NET*

Short name: EIFL

Address of the organisation

Street   Marisplantsoen 9

Town   Nieuwegein

Postcode   3431 GZ

Country   Netherlands

Webpage   www.eifl.net

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………no   Legal person ………………………… yes

Non-profit ……………………………………………yes

International organisation ……………………………no

International organisation of European interest ……no

Secondary or Higher education establishment …….no

Research organisation ………………………………no

Small and Medium-sized Enterprises (SMEs) ………no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name   Open Access Programme

Street   Marisplantsoen 9   ☒ Same as organisation
                                                                    address

Town   Nieuwegein

Postcode   3431 GZ

Country   Netherlands

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410** *Acronym* **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title | Mrs Sex ○ Male ⦿ Female

First name **Iryna** Last name **Kuchma**

E-Mail **iryna.kuchma@eifl.net**

Position in org. | Open Access programme manager

Department | Open Access Programme

Street | Piazza Mastai 9 ☐ Same as organisation address

Town | Rome Post code | 00153

Country | Italy

Website | www.eifl.net

Phone | +380 503113450 Phone 2 | +390 65807216 Fax | +390 65807246

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999986096   *UNIVERSITEIT GENT*

Short name: UGENT

Address of the organisation

Street   SINT PIETERSNIEUWSTRAAT 25

Town   GENT

Postcode   9000

Country   Belgium

Webpage   http://www.ugent.be

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name	University Library
Street	Rozier 9
Town	Gent
Postcode	9000
Country	Belgium

☐ Same as organisation address

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**	Acronym	**OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Ms

Sex ○ Male ⦿ Female

First name **Inge**

Last name **VanNieuwerburgh**

E-Mail **inge.vannieuwerburgh@ugent.be**

Position in org. Coordinator scientific communication

Department University Library

Street Rozier 9 ☐ Same as organisation address

Town Gent

Post code 9000

Country Belgium

Website http://lib.ugent.be/en

Phone +329 264 79 40

Phone 2 *+xxx xxxxxxxxx*

Fax +329 264 38 52

Other contact persons

First Name	Last Name	E-mail	Phone
Nathalie	Vandepitte	nathalie.vandepitte@ugent.be	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999975814   *UNIVERSITETET I OSLO*

Short name: CRIStin

Address of the organisation

Street   Problemveien 5-7

Town   OSLO

Postcode   0316

Country   Norway

Webpage   www.uio.no

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit …………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… no

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name   CRIStin

Street   Forskningsveien 3b   ☐ Same as organisation address

Town   Oslo

Postcode   0373

Country   Norway

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Ms   Sex   ○ Male   ⦿ Female

First name   **Nina**   Last name   **Karlstrøm**

E-Mail   **nina.karlstrom@cristin.no**

Position in org.   Senior Adviser

Department   CRIStin

Street   Forskningsveien 3b   ☐ Same as organisation address

Town   Oslo   Post code   0373

Country   Norway

Website   www.cristin.no

Phone   +4722852448   Phone 2   +4792207676   Fax   *+xxx xxxxxxxxx*

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
957901773   *COAR e.V. - Confederation of Open Access Repositories*

Short name: COAR e.V.

Address of the organisation

          Street   Platz der Göttinger Sieben 1

          Town   Göttingen

        Postcode   37073

         Country   Germany

        Webpage   http://coar-repositories.org

Legal Status of your organisation

 Research and Innovation legal statuses

Public body ……………………………………… no   Legal person ………………………… yes

Non-profit …………………………………………… no

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ……………………………… no

Small and Medium-sized Enterprises (SMEs) ……… no

 Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name   COAR Office

Street   Platz der Göttinger Sieben 1   ☒ Same as organisation address

Town   Göttingen

Postcode   37073

Country   Germany

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title _____   Sex   ○ Male   ⦿ Female

First name **Katharina**   Last name **Mueller**

E-Mail **katharina.mueller@sub.uni-goettingen.de**

Position in org. Head of Office

Department *Please indicate the department of the Contact Point above in the organisation*

Street Platz der Göttinger Sieben 1   ☒ Same as organisation address

Town Göttingen   Post code 37073

Country Germany

Website _____

Phone _____   Phone 2 +49-551-39-22215   Fax +49-551-39-5222

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
985428142   *STICHTING LIBER*

Short name: LIBER

Address of the organisation

Street   PR WILLEM ALEXANDERHOF 5

Town   DEN HAAG

Postcode   2595 BE

Country   Netherlands

Webpage   www.libereurope.eu

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit …………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ……………………………… no

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name | LIBER Office

Street | PR WILLEM ALEXANDERHOF 5   ⊠ Same as organisation address

Town | DEN HAAG

Postcode | 2595 BE

Country | Netherlands

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title	Ms	Sex	◯ Male	◉ Female

First name **Susan**   Last name **Reilly**

E-Mail **susan.reilly@kb.nl**

Position in org. EU Projects Manager

Department LIBER Office

Street PR WILLEM ALEXANDERHOF 5   ☒ Same as organisation address

Town DEN HAAG   Post code 2595 BE

Country Netherlands

Website www.libereurope.eu

Phone +31703140160   Phone 2 +31615189506   Fax +31 70 314 01 97

Other contact persons

First Name	Last Name	E-mail	Phone
Izaksun	Lacunza	izaskun.lacunza@kb.nl	

Proposal ID **643410**		Acronym	**OpenAIRE2020**

PIC
999646208

Legal name
COOPERACION LATINOAMERICANA DE REDES AVANZADAS

Short name: CLARA

Address of the organisation

Street   RAMBLA REPUBLICA DE MEXICO 6125

Town   MONTEVIDEO

Postcode   11400

Country   Uruguay

Webpage   http://www.redclara.net

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… no   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation ……………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ……………………………. no

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

| Proposal ID **643410** | Acronym | **OpenAIRE2020** |

Department(s) carrying out the proposed work

Department 1

Department name | LA REFERENCIA

Street | Avenida El Parque #4680-A Oficina 108

Town | Ciudad Empresarial, Huechuraba

Postcode | 8580644

Country | Chile

☐ Same as organisation address

Dependencies with other proposal participants

Character of dependence	*Participant*	

| Proposal ID **643410** | | *Acronym* | **OpenAIRE2020** |

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Mr.

Sex ⦿ Male ◯ Female

First name **Alberto**

Last name **Cabezas**

E-Mail **alberto.cabezas@redclara.net**

Position in org. Executive Secretary

Department LA REFERENCIA

Street Avenida El Parque #4680-A Oficina 108

☐ Same as organisation address

Town Ciudad Empresarial, Huechuraba

Post code 8580644

Country Chile

Website http://lareferencia.redclara.net/

Phone +56225848618

Phone 2 *+xxx xxxxxxxxx*

Fax *+xxx xxxxxxxxx*

Other contact persons

First Name	*Last Name*	*E-mail*	*Phone*
Mark	Urban	mark.urban@redclara.net	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999985708   *UNIVERSITEIT VAN AMSTERDAM*

Short name: UvA

Address of the organisation

Street   SPUI 21

Town   AMSTERDAM

Postcode   1012WX

Country   Netherlands

Webpage   www.uva.nl

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name | Institute for Information Law

Street | Kloveniersburgwal 48   ☐ Same as organisation address

Town | Amsterdam

Postcode | 1012 CX

Country | Netherlands

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**		*Acronym*	**OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Dr.

Sex ○ Male ⦿ Female

First name **Lucie**

Last name **Guibault**

E-Mail **l.guibault@uva.nl**

Position in org. Associate professor

Department Institute for Information Law

Street Kloveniersburgwal 48

☐ Same as organisation address

Town Amsterdam

Post code 1012 CX

Country Netherlands

Website www.ivir.nl

Phone +31205253947

Phone 2 +31643037863

Fax +31205253033

Proposal ID **643410**   Acronym   **OpenAIRE2020**

PIC   *Legal name*
999988230   *EUROPEAN MOLECULAR BIOLOGY LABORATORY*

Short name: EMBL

Address of the organisation

          Street   Meyerhofstrasse 1

            Town   HEIDELBERG

       Postcode   69117

         Country   Germany

        Webpage   www.embl.org

Legal Status of your organisation

  Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ……………………… yes

Non-profit ……………………………………… yes

International organisation …………………………… yes

International organisation of European interest …… yes

Secondary or Higher education establishment ……. no

Research organisation ………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

  Nace code

Proposal ID **643410**		*Acronym*	**OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name	European Bioinformatics Institute (EMBL-EBI)	
Street	Wellcome Trust Genome Campus	☐ Same as organisation address
Town	Cambridge	
Postcode	CB10 1SD	
Country	United Kingdom	

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Dr.   Sex   ○ Male   ● Female

First name   **Jo**   Last name   **McEntyre**

E-Mail   **mcentyre@ebi.ac.uk**

Position in org.   Team Leader for Literature Services

Department   European Bioinformatics Institute (EMBL-EBI)

Street   Wellcome Trust Genome Campus   ☐ Same as organisation address

Town   Cambridge   Post code   CB10 1SD

Country   United Kingdom

Website   http://www.ebi.ac.uk

Phone   +44 (0)1223 492599   Phone 2   *+xxx xxxxxxxxx*   Fax   *+xxx xxxxxxxxx*

Proposal ID **643410**　　　　　　　　　　*Acronym*　　**OpenAIRE2020**

PIC

999987454

Legal name

UNIVERSITAET BREMEN

Short name: UniHB

Address of the organisation

Street　Bibliothekstrasse 1

Town　BREMEN

Postcode　28359

Country　Germany

Webpage　www.uni-bremen.de

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes　　　　Legal person ………………………… yes

Non-profit …………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name | MARUM - Center for Marine Environmental Sciences

Street | Leobener Straße

Town | Bremen

Postcode | 28359

Country | Germany

☐ Same as organisation address

Department 2

Department name | PANGAEA - Date Publisher for Earth and Environmental Science

Street | Leobener Straße

Town | Bremen

Postcode | 28359

Country | Germany

☐ Same as organisation address

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Dr.   Sex   ⦿ Male   ◯ Female

First name **Michael**   Last name **Diepenbroek**

E-Mail **mdiepenbroek@pangaea.de**

Position in org.   Senior Scientist

Department   MARUM / PANGAEA

Street   Leobener Straße   ☐ Same as organisation address

Town   Bremen   Post code   28359

Country   Germany

Website   www.marum.de www.pangaea.de

Phone   +49-421-21865590   Phone 2 *+xxx xxxxxxxxx*   Fax *+xxx xxxxxxxxx*

Other contact persons

First Name	Last Name	E-mail	Phone
Johanna	Schietke	schietke@uni-bremen.de	

Proposal ID **643410**　　　　　*Acronym*　**OpenAIRE2020**

PIC　　　　　　　　*Legal name*
999980276　　　　*RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITAT BONN*

Short name: UBONN

Address of the organisation

　　　　Street　REGINA PACIS WEG 3

　　　　Town　BONN

　　Postcode　53113

　　Country　Germany

　　Webpage　www.uni-bonn.de

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes　　　　　Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ………………………………… yes

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Proposal ID **643410**	Acronym	**OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name: Enterprise Information Systems, Institut für Informatik III

Street: Römerstraße 164

☐ Same as organisation address

Town: Bonn

Postcode: 53117

Country: Germany

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**		*Acronym*	**OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title | Prof. | Sex   ⦿ Male   ◯ Female

First name **Sören**   Last name **Auer**

E-Mail **auer@cs.uni-bonn.de**

Position in org. | Professor

Department | Enterprise Information Systems, Institut für Informatik III

Street | Römerstr. 164   ☐ Same as organisation address

Town | Bonn   Post code | 53117

Country | Germany

Website | http://eis.iai.uni-bonn.de

Phone | +49 228 73-7816   Phone 2 | *+xxx xxxxxxxxx*   Fax | +49 228 73-4382

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
951478821   *JISC*

Short name: JISC

Address of the organisation

Street   COLDHARBOUR LANE NORTHAVON HOUSE

Town   BRISTOL

Postcode   BS16 1QD

Country   United Kingdom

Webpage   www.jisc.ac.uk

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… no   Legal person ………………………… yes

Non-profit …………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ……………………………… no

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name | Jisc

Street | One Castlepark, Tower Hill

☐ Same as organisation address

Town | Bristol

Postcode | BS2 0JA

Country | United Kingdom

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**	*Acronym*	**OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Dr.   Sex   ⦿ Male   ◯ Female

First name **Neil**   Last name **Jacobs**

E-Mail **n.jacobs@jisc.ac.uk**

Position in org.   Head of Scholarly Communications Support

Department   Jisc

Street   One Castlepark, Tower Hill   ☐ Same as organisation address

Town   Bristol   Post code   BS2 0JA

Country   United Kingdom

Website   www.jisc.ac.uk

Phone   +447841951303   Phone 2 *+xxx xxxxxxxxx*   Fax *+xxx xxxxxxxxx*

Proposal ID **643410**   Acronym   **OpenAIRE2020**

PIC   **Legal name**
999594895   STICHTING SURF

Short name: SURF

Address of the organisation

Street   GRAADT VAN ROGGENWEG 340

Town   UTRECHT

Postcode   3531 AH

Country   Netherlands

Webpage

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… no

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | SURF, Dept. E-research

Street | GRAADT VAN ROGGENWEG 340   ☒ Same as organisation address

Town | UTRECHT

Postcode | 3531 AH

Country | Netherlands

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   Acronym   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Dr.

Sex   ⦿ Male   ◯ Female

First name **Marc**   Last name **Dupuis**

E-Mail **marc.dupuis@surf.nl**

Position in org. programme manager

Department e-research

Street GRAADT VAN ROGGENWEG 340   ⊠ Same as organisation address

Town UTRECHT   Post code 3531 AH

Country Netherlands

Website http://www.surf.nl

Phone +31302346600   Phone 2 +31646608492   Fax *+XXX XXXXXXXXX*

Proposal ID **643410**   Acronym   **OpenAIRE2020**

PIC   *Legal name*
999518362   *KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN - KNAW*

Short name: DANS-KNAW

Address of the organisation

Street   KLOVENIERSBURGWAL 29 HET TRIPPENHU

Town   AMSTERDAM

Postcode   1011 JV

Country   Netherlands

Webpage   www.knaw.nl

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ………………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | Data Archiving and Networked Services (DANS)

Street | Anna van Saksenlaan 10

Town | The Hague

Postcode | 2593 HT

Country | Netherlands

☐ Same as organisation address

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Mr.   Sex   ◉ Male   ○ Female

First name   **Peter**   Last name   **Doorn**

E-Mail   **peter.doorn@dans.knaw.nl**

Position in org.   Executive Director

Department   *Please indicate the department of the Contact Point above in the organisation*

Street   Anna van Saksenlaan 10   ☐ Same as organisation address

Town   The Hague   Post code   2593 HT

Country   Netherlands

Website   www.dans.knaw.nl

Phone   +31703446484   Phone 2   *+xxx xxxxxxxxx*   Fax   *+xxx xxxxxxxxx*

Proposal ID **643410**   Acronym   **OpenAIRE2020**

PIC   **Legal name**

999977366   *TECHNISCHE UNIVERSITEIT DELFT*

Short name: TU Delft

Address of the organisation

Street   STEVINWEG 1

Town   DELFT

Postcode   2628 CN

Country   Netherlands

Webpage   www.tudelft.nl

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | TU Delft Library / 3TU.Datacentrum

Street | Prometheusplein 1

☐ Same as organisation address

Town | Delft

Postcode | 2628ZC

Country | Netherlands

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Mr.   Sex   ● Male   ○ Female

First name **Michel**   Last name **Beerens**

E-Mail **m.j.j.beerens@tudelft.nl**

Position in org. International Acquisition Expert

Department TU Delft Library - Library Development

Street STEVINWEG 1   ☐ Same as organisation address

Town DELFT   Post code 2628 CN

Country Netherlands

Website http://www.library.tudelft.nl/en/

Phone 0031648590169   Phone 2 +xxx xxxxxxxxx   Fax +xxx xxxxxxxxx

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   **Legal name**
999866883   *UNIVERSITAET WIEN*

Short name: UNIVIE

Address of the organisation

        Street   UNIVERSITAETSRING 1

        Town   WIEN

    Postcode   1010

     Country   Austria

    Webpage   www.univie.ac.at

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit …………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | Vienna University Library |

Street | UNIVERSITAETSRING 1 | ☒ Same as organisation address

Town | WIEN |

Postcode | 1010 |

Country | Austria |

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title |Ms| Sex   ◯ Male   ◉ Female

First name **Gerda**   Last name **McNeill**

E-Mail **gerda.mcneill@univie.ac.at**

Position in org. |Coordinator EU-Projects, Library Manager Sports Science Library|

Department |Vienna University Library|

Street |UNIVERSITAETSRING 1| ⊠ Same as organisation address

Town |WIEN| Post code |1010|

Country |Austria|

Website |http://bibliothek.univie.ac.at/|

Phone |00431427715117| Phone 2 |00431427716980| Fax |+xxx xxxxxxxxx|

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999534852   *INSTITUTE OF MATHEMATICS AND INFORMATICS AT THE BULGARIAN ACADEMY OF SCIENCE*

Short name: IMI BAS

Address of the organisation

Street   ACAD G BONCHEV STREET BL 8

Town   SOFIA

Postcode   1113

Country   Bulgaria

Webpage   www.math.bas.bg

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… no   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | Computer Systems

Street | ACAD G BONCHEV STREET BL 8   ☒ Same as organisation address

Town | SOFIA

Postcode | 1113

Country | Bulgaria

Dependencies with other proposal participants

Character of dependence	*Participant*	

| Proposal ID **643410** | *Acronym* | **OpenAIRE2020** |

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Prof.

Sex   ● Male   ○ Female

First name **Peter**

Last name **Stanche**

E-Mail **pstanche@kettering.edu**

Position in org. Department Chair

Department Computer Systems

Street ACAD G BONCHEV STREET BL 8

⊠ Same as organisation address

Town SOFIA   Post code 1113

Country Bulgaria

Website http://paws.kettering.edu/~pstanche/

Phone +359897730043   Phone 2 +18103948679   Fax *+XXX XXXXXXXXX*

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999875031   *RUDER BOSKOVIC INSTITUTE*

Short name: RBI

Address of the organisation

Street   Bijenicka cesta 54

Town   ZAGREB

Postcode   10000

Country   Croatia

Webpage   www.irb.hr

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit …………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name	Library	
Street	Bijenicka cesta 54	☒ Same as organisation address
Town	ZAGREB	
Postcode	10000	
Country	Croatia	

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Prof.   Sex   ◯ Male   ⦿ Female

First name   **Jadranka**   Last name   **Stojanovski**

E-Mail   **jadranka.stojanovski@irb.hr**

Position in org.   senior librarian

Department   Library

Street   Bijenicka cesta 54   ⊠ Same as organisation
                                                        address

Town   ZAGREB   Post code   10000

Country   Croatia

Website   http://lib.irb.hr/web

Phone   +38514560929   Phone 2   +38598318609   Fax   +38514561095

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999835843   *UNIVERSITY OF CYPRUS*

Short name: UCY

Address of the organisation

Street   KALLIPOLEOS STREET 75

Town   NICOSIA

Postcode   1678

Country   Cyprus

Webpage   www.ucy.ac.cy

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Proposal ID **643410**   Acronym   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | University of Cyprus Library

Street | KALLIPOLEOS STREET 75   ☒ Same as organisation address

Town | NICOSIA

Postcode | 1678

Country | Cyprus

Dependencies with other proposal participants

Character of dependence	*Participant*	

| Proposal ID **643410** | Acronym | **OpenAIRE2020** |

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title | Ms | Sex | ⃝ Male ⦿ Female

First name **Sylvia**   Last name **Koukounidou**

E-Mail **koukounidou.vasiliki@ucy.ac.cy**

Position in org. University Officer

Department Library

Street KALLIPOLEOS STREET 75   ☒ Same as organisation address

Town NICOSIA   Post code 1678

Country Cyprus

Website http://library.ucy.ac.cy/

Phone +35722892168   Phone 2 +35722892020   Fax +35722893435

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999868144   *VYSOKA SKOLA BANSKA - TECHNICKA UNIVERZITA OSTRAVA*

Short name: VSB - TUO

Address of the organisation

Street   17 LISTOPADU 15/2172

Town   OSTRAVA PORUBA

Postcode   70 833

Country   Czech Republic

Webpage   www.vsb.cz

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… no

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name | Ústřední knihovna

Street | 17 LISTOPADU 15/2172

☒ Same as organisation address

Town | OSTRAVA PORUBA

Postcode | 70 833

Country | Czech Republic

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title | Ms   Sex   ○ Male ⦿ Female

First name **Daniela**   Last name **Tkacikova**

E-Mail **daniela.tkacikova@vsb.cz**

Position in org. | Director of Library

Department | Ustredni knihovna

Street | 17 LISTOPADU 15/2172   ☒ Same as organisation address

Town | OSTRAVA PORUBA   Post code | 70 833

Country | Czech Republic

Website | http://profily.vsb.cz/tka20

Phone | +420597312278   Phone 2 | *+xxx xxxxxxxxx*   Fax | *+xxx xxxxxxxxx*

Other contact persons

First Name	Last Name	E-mail	Phone
Katerina	Mrazkova	katerina.mrazkova@vsb.cz	

Proposal ID **643410**   Acronym   **OpenAIRE2020**

PIC   **Legal name**
999904616   *SYDDANSK UNIVERSITET*

Short name: SDU

Address of the organisation

Street   CAMPUSVEJ 55

Town   ODENSE M

Postcode   5230

Country   Denmark

Webpage   www.sdu.dk

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ………………………………… yes

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name   University Library of Southern Denmark

Street   CAMPUSVEJ 55   ☒ Same as organisation address

Town   ODENSE M

Postcode   5230

Country   Denmark

Dependencies with other proposal participants

Character of dependence	*Participant*	

| Proposal ID **643410** | | *Acronym* | **OpenAIRE2020** |

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Mr. Sex ● Male ○ Female

First name **Asger** Last name **Væring Larsen**

E-Mail **avla@bib.sdu.dk**

Position in org. Senior Consultant

Department General Office

Street CAMPUSVEJ 55 ☒ Same as organisation address

Town ODENSE M Post code 5230

Country Denmark

Website http://sdu.dk/en/Bibliotek

Phone +4565509285 Phone 2 *+xxx xxxxxxxxx* Fax *+xxx xxxxxxxxx*

Other contact persons

First Name	Last Name	E-mail	Phone
Arne	Bækdal Hansen	arbh@tek.sdu.dk	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC	*Legal name*
999895013	*TARTU ULIKOOL*

Short name: UT

Address of the organisation

Street   ULIKOOLI 18

Town   TARTU

Postcode   50090

Country   Estonia

Webpage   www.ut.ee

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ………………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name	Library of University of Tartu
Street	W. Struve 1
Town	Tartu
Postcode	50091
Country	Estonia

☐ Same as organisation address

Dependencies with other proposal participants

Character of dependence	*Participant*	

| Proposal ID **643410** | | *Acronym* | **OpenAIRE2020** |

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Mrs

Sex ○ Male ● Female

First name **Anneli**

Last name **Sep**

E-Mail **anneli.sepp@ut.ee**

Position in org. Head of department

Department Informationsystems

Street W. Stuve 1

☐ Same as organisation address

Town Tartu

Post code 50091

Country Estonia

Website www.utlib.ee

Phone +3725521498

Phone 2 +3727375784

Fax *+xxx xxxxxxxxx*

Other contact persons

First Name	Last Name	E-mail	Phone
Kadri	Raav	kadri.raav@ut.ee	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999994535   *HELSINGIN YLIOPISTO*

Short name: HY

Address of the organisation

        Street   YLIOPISTONKATU 4

        Town   HELSINGIN YLIOPISTO

    Postcode   00014

     Country   Finland

    Webpage   http://www.helsinki.fi/university/

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Proposal ID **643410**   Acronym   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | Helsinki University Library

Street | Kaisa-talo (PL 53) Fabianinkatu 30   ☐ Same as organisation address

Town | Helsinki University

Postcode | 00014

Country | Finland

Dependencies with other proposal participants

Character of dependence	*Participant*	

| Proposal ID **643410** | *Acronym* | **OpenAIRE2020** |

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title [   ]   Sex   ○ Male   ⦿ Female

First name **Annikki**   Last name **Roos**

E-Mail **annikki.roos@helsinki.fi**

Position in org. [Library Director]

Department [Meilahti Campus Library Terkko]

Street [Haartmaninkatu 4]   ☐ Same as organisation address

Town [Helsinki University]   Post code [00014]

Country [Finland]

Website [http://www.terkko.helsinki.fi/]

Phone [+358 50 415 5560]   Phone 2 [*+xxx xxxxxxxxx*]   Fax [*+xxx xxxxxxxxx*]

Other contact persons

First Name	*Last Name*	*E-mail*	*Phone*
Kimmo	Tuominen	kimmo.tuominen@helsinki.fi	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
996379539   *CONSORTIUM UNIVERSITAIRE DE PUBLICATIONS NUMERIQUES COUPERIN*

Short name: COUPERIN

Address of the organisation

Street   BOULEVARD SAINT-MICHEL 103

Town   PARIS

Postcode   75005

Country   France

Webpage   http://www.couperin.org

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… no   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ………………………………… no

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name	COUPERIN - services and forecasting studies department
Street	BOULEVARD SAINT-MICHEL 103
Town	PARIS
Postcode	75005
Country	France

☒ Same as organisation address

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title | Mr.

Sex   ⦿ Male   ◯ Female

First name **André**   Last name **Dazy**

E-Mail **andre.dazy@couperin.org**

Position in org. | coordinator of services and forecasting studies department

Department | services and forecasting studies department

Street | 4 rue Valette   ☐ Same as organisation address

Town | Paris   Post code | 75005

Country | France

Website | www.couperin.org

Phone | +33156817680   Phone 2 | *+xxx xxxxxxxxx*   Fax | *+xxx xxxxxxxxx*

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999866204   *UNIVERSITAT KONSTANZ*

Short name: UKON

Address of the organisation

Street   UNIVERSITATSSTRASSE 10

Town   KONSTANZ

Postcode   78457

Country   Germany

Webpage   www.uni-konstanz.de/

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name COMMUNICATION, INFORMATION AND MEDIA CENTRE (KIM)

Street UNIVERSITATSSTRASSE 10   ☒ Same as organisation address

Town KONSTANZ

Postcode 78457

Country Germany

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Mrs   Sex   ○ Male ⦿ Female

First name **Petra**   Last name **Haetscher**

E-Mail **petra.haetscher@uni-konstanz.de**

Position in org.   HEAD OF KIM AND LIBRARY DIRECTOR

Department   COMMUNICATION, INFORMATION AND MEDIA CENTRE (KIM)

Street   UNIVERSITATSSTRASSE 10   ☒ Same as organisation address

Town   KONSTANZ   Post code   78457

Country   Germany

Website   www.ub.uni-konstanz.de

Phone   ++49 7531 88 2800   Phone 2   *+xxx xxxxxxxxx*   Fax   ++49 7531 883082

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999479853   *ETHNIKO IDRYMA EREVNON*

Short name: EKT-NHRF

Address of the organisation

Street   VAS KONSTANTINOU 48

Town   ATHINA

Postcode   11635

Country   Greece

Webpage   www.eie.gr

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… no   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name | National Documentation Centre (EKT/NHRF)

Street | VAS KONSTANTINOU 48

☒ Same as organisation address

Town | ATHINA

Postcode | 11635

Country | Greece

Dependencies with other proposal participants

Character of dependence	*Participant*	

| *Proposal ID* **643410** | *Acronym* | **OpenAIRE2020** |

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Dr.

Sex ○ Male ⦿ Female

First name **Evi**

Last name **Sachini**

E-Mail **esachin@ekt.gr**

Position in org. Director

Department National Documentation Centre (EKT/NHRF)

Street VAS KONSTANTINOU 48

☒ Same as organisation address

Town ATHINA Post code 11635

Country Greece

Website www.ekt.gr

Phone 302107273947 Phone 2 *+xxx xxxxxxxxx* Fax *+xxx xxxxxxxxx*

Other contact persons

First Name	Last Name	E-mail	Phone
Nikos	Houssos	nhoussos@ekt.gr	
Victoria	Tsoukala	tsoukala@ekt.gr	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   **Legal name**
999881239   *DEBRECENI EGYETEM*

Short name: DE

Address of the organisation

Street   EGYETEM TER 1

Town   DEBRECEN

Postcode   4032

Country   Hungary

Webpage   http://www.unideb.hu

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… no

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Proposal ID **643410**		Acronym	**OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name	University and National Library University of Debrecen	
Street	EGYETEM TER 1	☒ Same as organisation address
Town	DEBRECEN	
Postcode	4032	
Country	Hungary	

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**		*Acronym*	**OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

| Title | Ms | Sex | ○ Male   ⊙ Female |

First name **Gyongyi**   Last name **Karacsony**

E-Mail **gyk@lib.unideb.hu**

Position in org. | General Director

Department | University and National Library University of Debrecen

Street | EGYETEM TER 1   ⊠ Same as organisation address

Town | DEBRECEN   Post code | 4032

Country | Hungary

Website | www.deenk.hu

Phone | +3652410443   Phone 2 | *+xxx xxxxxxxxx*   Fax | +3652410443

Other contact persons

First Name	*Last Name*	*E-mail*	*Phone*
Edit	Görögh	editg@lib.unideb.hu	

Proposal ID **643410**		Acronym	**OpenAIRE2020**

PIC	*Legal name*
999821390	*LANDSPITALI UNIVERSITY HOSPITAL*

Short name: LUH

Address of the organisation

Street   Eiriksgata 5

Town   REYKJAVIK

Postcode   101

Country   Iceland

Webpage   www.landspitali.is

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… no

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | Department of Science

Street | Eiriksgata 5   ☒ Same as organisation address

Town | REYKJAVIK

Postcode | 101

Country | Iceland

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Mrs   Sex   ○ Male   ● Female

First name   **Sólveig**   Last name   **Þorsteinsdóttir**

E-Mail   **solveig@landspitali.is**

Position in org.   Project Mnager

Department   Department of Science

Street   Eiriksgata 5   ⊠ Same as organisation
                                                                address

Town   REYKJAVIK   Post code   101

Country   Iceland

Website   http://www.landspitali.is

Phone   3545431454   Phone 2   3548245380   Fax   *+xxx xxxxxxxxx*

| Proposal ID **643410** | | *Acronym* | **OpenAIRE2020** |

PIC	*Legal name*
999845446	*THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF*

Short name: TCD

Address of the organisation

Street	College Green
Town	DUBLIN
Postcode	2
Country	Ireland
Webpage	www.tcd.ie

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation ……………………………no

International organisation of European interest ……no

Secondary or Higher education establishment ……. yes

Research organisation ………………………………no

Small and Medium-sized Enterprises (SMEs) ……..no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name | Research Informatics, Trinity College Library Dublin

Street | College Green   ⊠ Same as organisation address

Town | DUBLIN

Postcode | 2

Country | Ireland

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title | Ms   Sex   ○ Male   ● Female

First name **Niamh**   Last name **Brennan**

E-Mail **nbrennan@tcd.ie**

Position in org. | Programme Manager, Research Informatics

Department | Trinity College Library

Street | College Green   ☒ Same as organisation address

Town | DUBLIN   Post code | 2

Country | Ireland

Website | http://www.tcd.ie/Library

Phone | 0035318961646   Phone 2 | +XXX XXXXXXXXX   Fax | +XXX XXXXXXXXX

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999843409   *CONSORZIO INTERUNIVERSITARIO CINECA*

Short name: CINECA

Address of the organisation

Street   VIA MAGNANELLI 6/3

Town   CASALECCHIO DI RENO BO

Postcode   40033

Country   Italy

Webpage   www.cineca.it

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name | Information and Knowledge Management Dept

Street | VIA MAGNANELLI 6/3   ⊠ Same as organisation address

Town | CASALECCHIO DI RENO BO

Postcode | 40033

Country | Italy

Dependencies with other proposal participants

Character of dependence	*Participant*	

European
Commission

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Ms   Sex   ○ Male ● Female

First name **Paola**   Last name **Gargiulo**

E-Mail   **p.gargiulo@cineca.it**

Position in org.   Electronic Publishing and OA projects specialist

Department   Information and Knowledge Management Dept.- Milan branch

Street   Via Raffaello Sanzio 4   ☐ Same as organisation address

Town   Milano   Post code   20090

Country   Italy

Website   http://www.cineca.it

Phone   +39-02-26995218   Phone 2   +39 -328-9507128   Fax   *+xxx xxxxxxxxx*

Other contact persons

First Name	Last Name	E-mail	Phone
Paola	Alberigo	p.alberigo@cineca.it	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   **Legal name**
999871830   *LATVIJAS UNIVERSITATE*

Short name: LU

Address of the organisation

Street   RAINIS BOULEVARD   19

Town   RIGA

Postcode   1586

Country   Latvia

Webpage   http://www.lu.lv

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | Library of the University of Latvia |

Street | Bulvrd. Kalpaka 4 | ☐ Same as organisation address

Town | Riga |

Postcode | LV 1050 |

Country | Latvia |

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Dr.   Sex   ○ Male   ● Female

First name **Iveta**   Last name **Gudakovska**

E-Mail **iveta.gudakovska@lu.lv**

Position in org. Director of Library

Department Library of the University of Latvia

Street Bulvrd. Kalpaka 4   ☐ Same as organisation address

Town Riga   Post code LV 1050

Country Latvia

Website http://www.biblioteka.lu.lv

Phone +37129101528   Phone 2 *+xxx xxxxxxxxx*   Fax *+xxx xxxxxxxxx*

Proposal ID **643410**		Acronym	**OpenAIRE2020**

PIC	*Legal name*
999844961	*KAUNO TECHNOLOGIJOS UNIVERSITETAS*

Short name: KTU

Address of the organisation

Street	K DONELAICIO 73
Town	KAUNAS
Postcode	44029
Country	Lithuania
Webpage	www.ktu.lt

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

| Proposal ID **643410** | | Acronym | **OpenAIRE2020** |

Department(s) carrying out the proposed work

Department 1

Department name	Faculty of Social Sciences, Arts and Humanities
Street	K. Donelaicio 20
Town	Kaunas
Postcode	44239
Country	Lithuania

☐ Same as organisation address

Department 2

Department name	Library
Street	K. Donelaicio 20
Town	Kaunas
Postcode	44239
Country	Lithuania

☐ Same as organisation address

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Dr.   Sex   ○ Male ⦿ Female

First name **Gintare**   Last name **Tautkeviciene**

E-Mail **gintare.tautkeviciene@ktu.lt**

Position in org. Associate Professor

Department Faculty of Social Sciences, Arts and Humanities

Street K. Donelaicio 20   ☐ Same as organisation address

Town Kaunas   Post code 44239

Country Lithuania

Website ktu.edu

Phone +370-37-300284   Phone 2 +370-37-300100   Fax +370-37-300102

Proposal ID **643410**		Acronym	**OpenAIRE2020**

PIC
999878620

Legal name
UNIVERSITE DU LUXEMBOURG

Short name: ULUX

Address of the organisation

Street   AVENUE DE LA FAIENCERIE 162 A

Town   LUXEMBOURG-VILLE

Postcode   1511

Country   Luxembourg

Webpage

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name   Service des bibliothèques

Street   AVENUE DE LA FAIENCERIE 162 A   ☒ Same as organisation address

Town   LUXEMBOURG-VILLE

Postcode   1511

Country   Luxembourg

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Mrs   Sex   ○ Male   ⦿ Female

First name   **Beth**   Last name   **Park**

E-Mail   **beth.park@uni.lu**

Position in org.   Librarian - Open Access and Repository Project

Department   Service des bibliothèques

Street   AVENUE DE LA FAIENCERIE 162 A   ⊠ Same as organisation address

Town   LUXEMBOURG-VILLE   Post code   1511

Country   Luxembourg

Website   http://wwwen.uni.lu/library

Phone   +3524666445894   Phone 2   *+xxx xxxxxxxxx*   Fax   *+xxx xxxxxxxxx*

| Proposal ID **643410** | Acronym | **OpenAIRE2020** |

PIC	**Legal name**
999887059	*UNIVERSITA TA MALTA*

Short name: UOM

Address of the organisation

Street University Campus, Tal-Qroqq

Town MSIDA

Postcode 2080

Country Malta

Webpage www.um.edu.mt

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit ………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… no

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Proposal ID **643410**	*Acronym*	**OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name	University of Malta Library	
Street	University Campus, Tal-Qroqq	☒ Same as organisation address
Town	MSIDA	
Postcode	2080	
Country	Malta	

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title | Mr.

Sex   ⦿ Male   ◯ Female

First name **Kevin**

Last name **Ellul**

E-Mail **kevin.j.ellul@um.edu.mt**

Position in org. | Director Library Services

Department | University of Malta Library

Street | University Campus, Tal-Qroqq

☒ Same as organisation address

Town | MSIDA   Post code | 2080

Country | Malta

Website | www.um.edu.mt

Phone | 0035621310239   Phone 2 | 0035623402317   Fax | 0035621314306

Proposal ID **643410**   Acronym   **OpenAIRE2020**

PIC	**Legal name**
996419794	*Sarminfo SRL*

Short name: Sarminfo

Address of the organisation

Street   Mariuca (Bloc 110 Sc.1 Et.8 Ap.53 Sector 4) 12

Town   Bucharest

Postcode   042320

Country   Romania

Webpage   http://kosson.lx.ro

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………………… no   Legal person ………………………… yes

Non-profit ………………………………………………… no

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ………………………………… no

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | Information research

Street | Mariuca (Bloc 110 Sc.1 Et.8 Ap.53 Sector

☒ Same as organisation address

Town | Bucharest

Postcode | 042320

Country | Romania

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Mr.

Sex   ⦿ Male   ◯ Female

First name   **Nicolaie**

Last name   **Constantinescu**

E-Mail   **kosson@gmail.com**

Position in org.   ICT Director

Department   Information research

Street   Mariuca (Bloc 110 Sc.1 Et.8 Ap.53 Sector 4) 12

☒ Same as organisation address

Town   Bucharest   Post code   042320

Country   Romania

Website   http://www.kosson.ro

Phone   +40731148005   Phone 2   *+xxx xxxxxxxxx*   Fax   *+xxx xxxxxxxxx*

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999641843   *UNIVERZITET U BEOGRADU*

Short name: UB

Address of the organisation

Street STUDENTSKI TRG 1

Town BEOGRAD

Postcode 11000

Country Serbia

Webpage http://www.bg.ac.yu/en_index.php

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name   Belgrade University Computer Centre

Street   Kumanovska bb   ☐ Same as organisation address

Town   Belgrade

Postcode   11000

Country   Serbia

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**　　　　　　　　*Acronym*　　**OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title　　Mrs　　　　　　　　　　　　　　Sex　　　○ Male　　● Female

First name　**Biljana**　　　　　　　　　　Last　name　**Kosanovic**

E-Mail　**biljana@rcub.bg.ac.rs**

Position in org.　Open Access Program Manager

Department　Belgrade University Computer Centre

Street　Kumanovska bb　　　　　　　　　　　　　□ Same as organisation address

Town　Belgrade　　　　　Post code　11000

Country　Serbia

Website　www.rcub.bg.ac.rs

Phone　+381631075994　　Phone 2　*+xxx xxxxxxxxx*　　Fax　*+xxx xxxxxxxxx*

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
951533044   *CENTRUM VEDECKO TECHNICKYCH INFORMACII SLOVENSKEJ REPUBLIKY*

Short name: CVTISR

Address of the organisation

Street LAMACSKA CESTA 8 A

Town BRATISLAVA

Postcode 811 04

Country Slovakia

Webpage www.cvtisr.sk

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………………… yes   Legal person ………………………… yes

Non-profit ………………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ………………………………… no

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name   Science Support Section

Street   LAMACSKA CESTA 8 A   ☒ Same as organisation address

Town   BRATISLAVA

Postcode   811 04

Country   Slovakia

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**	*Acronym* **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Mr.

Sex ⦿ Male ◯ Female

First name **Lubomir**

Last name **Bilsky**

E-Mail **lubomir.bilsky@cvtisr.sk**

Position in org. Director of Science Support Section

Department Science Support Section

Street LAMACSKA CESTA 8 A

☒ Same as organisation address

Town BRATISLAVA   Post code 811 04

Country Slovakia

Website www.cvtisr.sk

Phone +421269253103   Phone 2 +421918976301   Fax *+XXX XXXXXXXX*

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999923240   *UNIVERZA V LJUBLJANI*

Short name: UL

Address of the organisation

Street   KONGRESNI TRG 12

Town   LJUBLJANA

Postcode   1000

Country   Slovenia

Webpage   http://www.uni-lj.si

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Proposal ID **643410**   Acronym   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name   University Office of Library Services

Street   KONGRESNI TRG 12   ⊠ Same as organisation address

Town   LJUBLJANA

Postcode   1000

Country   Slovenia

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Dr.   Sex   ○ Male   ● Female

First name   **Mojca**   Last name   **Kotar**

E-Mail   **mojca.kotar@uni-lj.si**

Position in org.   Assistant Secretary General

Department   University Office of Library Services

Street   KONGRESNI TRG 12   ☒ Same as organisation
                                                          address

Town   LJUBLJANA   Post code   1000

Country   Slovenia

Website   http://www.uni-lj.si

Phone   +38612418679   Phone 2   +38631607851   Fax   +38612418660

| Proposal ID **643410** | | Acronym | **OpenAIRE2020** |

PIC	*Legal name*
999421944	*FUNDACION ESPANOLA PARA LA CIENCIA Y LA TECNOLOGIA*

Short name: FECYT

Address of the organisation

Street   Calle Pedro Teixeira 8, Planta 2

Town   MADRID

Postcode   28020

Country   Spain

Webpage   www.fecyt.es

Legal Status of your organisation

Research and Innovation legal statuses

Public body …………………………………………… no   Legal person ………………………… yes

Non-profit …………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name	Gestion de la Informacion Cientifica Department
Street	Calle Pedro Teixeira 8, Planta 2
Town	MADRID
Postcode	28020
Country	Spain

☒ Same as organisation address

Dependencies with other proposal participants

Character of dependence	Participant	

Proposal ID **643410**　　　　　*Acronym*　**OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title　Ms

Sex　　○ Male　　⊙ Female

First name　**Cristina**　　　　　　　　　Last　name　**González**

E-Mail　**cristina.gonzalez@fecyt.es**

Position in org.　Director of the Scientific Information Management

Department　Scientific Information Management

Street　Calle Pedro Teixeira 8, Planta 2　　　　⊠ Same as organisation address

Town　MADRID　　　　　Post code　28020

Country　Spain

Website　http://www.fecyt.es

Phone　0034-914250909　　Phone 2　0034-606251879　　Fax　0034-915712172

Other contact persons

First Name	Last Name	E-mail	Phone
Pilar	Rico	pilar.rico@fecyt.es	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
996419988   *KUNGLIGA BIBLIOTEKET*

Short name: KBSE

Address of the organisation

        Street   HUMLEGARDEN

        Town   STOCKHOLM

    Postcode   102 41

     Country   Sweden

     Webpage   http://www.kb.se

Legal Status of your organisation

  Research and Innovation legal statuses

Public body ……………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation ………………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. no

Research organisation ………………………………… no

Small and Medium-sized Enterprises (SMEs) ……… no

  Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | National Coordination of Libraries

Street | Karlavägen 100   ☐ Same as organisation address

Town | Stockholm

Postcode | 115 26

Country | Sweden

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title | Mrs | Sex   ○ Male   ⊙ Female

First name **Ilona**   Last name **Johansson**

E-Mail **ilona.johansson@kb.se**

Position in org. | License Manager Open Access |

Department | National Coordination of Libraries |

Street | P.O. 5039 | ☐ Same as organisation address

Town | Stockholm | Post code | 102 41 |

Country | Sweden |

Website | www.kb.se |

Phone | +46107093610 | Phone 2 | +46700073610 | Fax | +46107093931 |

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999976396   *UNIVERSITAET ZUERICH*

Short name: UZH

Address of the organisation

Street   Raemistrasse 71

Town   ZURICH

Postcode   8006

Country   Switzerland

Webpage   http://www.uzh.ch

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… no

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Department(s) carrying out the proposed work

Department 1

Department name | University of Zuerich Main Library

Street | Strickhofstrasse 39   ☐ Same as organisation address

Town | Zuerich

Postcode | 8057

Country | Switzerland

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Prof.   Sex   ◉ Male   ○ Female

First name   **Christian**   Last name   **Fuhrer**

E-Mail   **christian.fuhrer@hbz.uzh.ch**

Position in org.   Head Open Access

Department   Main Library, Open Access

Street   Strickhofstrasse 39   ☐ Same as organisation address

Town   Zuerich   Post code   8057

Country   Switzerland

Website   www.oai.uzh.ch

Phone   +41446354148   Phone 2   *+XXX XXXXXXXXX*   Fax   *+XXX XXXXXXXXX*

Proposal ID **643410**   Acronym   **OpenAIRE2020**

PIC
999869308

Legal name
IZMIR INSTITUTE OF TECHNOLOGY

Short name: IIT

Address of the organisation

Street   GULBAHCE URLA

Town   IZMIR

Postcode   35430

Country   Turkey

Webpage

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) ……… no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name	Library	
Street	GULBAHCE URLA	⊠ Same as organisation address
Town	IZMIR	
Postcode	35430	
Country	Turkey	

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title Mr.

Sex   ⦿ Male ◯ Female

First name **Gultekin**

Last name **Gurdal**

E-Mail **gultekingurdal@iyte.edu.tr**

Position in org. Director Library

Department Library

Street GULBAHCE URLA

☒ Same as organisation address

Town IZMIR   Post code 35430

Country Turkey

Website http://www.iyte.edu.tr

Phone +90237506330   Phone 2 +905356957715   Fax +902327506333

Other contact persons

First Name	Last Name	E-mail	Phone
Gonul	kafali	gonulkafali@iyte.edu.tr	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

PIC   *Legal name*
999975620   *UNIVERSITY COLLEGE LONDON*

Short name: UCL

Address of the organisation

Street   GOWER STREET

Town   LONDON

Postcode   WC1E 6BT

Country   United Kingdom

Webpage   http://www.ucl.ac.uk

Legal Status of your organisation

Research and Innovation legal statuses

Public body ……………………………………… yes   Legal person ………………………… yes

Non-profit ……………………………………… yes

International organisation …………………………… no

International organisation of European interest …… no

Secondary or Higher education establishment ……. yes

Research organisation ……………………………… yes

Small and Medium-sized Enterprises (SMEs) …….. no

Nace code

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Department(s) carrying out the proposed work

Department 1

Department name | UCL Library Services

Street | GOWER STREET   ☒ Same as organisation address

Town | LONDON

Postcode | WC1E 6BT

Country | United Kingdom

Dependencies with other proposal participants

Character of dependence	*Participant*	

Proposal ID **643410**   *Acronym*   **OpenAIRE2020**

Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title   Mr.   Sex   ◉ Male   ◯ Female

First name   **Martin**   Last name   **Moyle**

E-Mail   **m.moyle@ucl.ac.uk**

Position in org.   Group Manager

Department   UCL Library Services

Street   GOWER STREET   ☒ Same as organisation address

Town   LONDON   Post code   WC1E 6BT

Country   United Kingdom

Website   http://www.ucl.ac.uk/library

Phone   +442076794351   Phone 2   +442076797051   Fax   +442076797373

Proposal ID **643410**   Acronym   **OpenAIRE2020**

3 - Budget for the proposal

Participant	Country	(A) Direct personnel costs/€	(B) Other direct costs/€	(C) Direct costs of sub-contracting/€	(D) Direct costs of providing financial support to third parties/€	(E) Costs of inkind contributions not used on the beneficiary's premises/€	(F) Indirect Costs / € (=0.25(A+B-E))	(G) Special unit costs covering direct & indirect costs / €	(H) Total estimated eligible costs / € (=A+B+C+D+F +G)	(I) Reimburse-ment rate (%)	(J) Max. grant / € (=H*I)	(K) Requested grant / €
		?	?	?	?	?	?	?	?	?	?	?
NATIONAL AND KAF	EL	350 400	80 500	35 000	0	0	107 725	0	573 625	100	573 625	573 625
GEORG-AUGUST-U	DE	444 000	68 000	60 000	0	0	128 000	0	700 000	100	700 000	700 000
CONSIGLIO NAZION	IT	690 000	68 200	0	0	0	189 550	0	947 750	100	947 750	947 750
UNIWERSYTET WA	PL	380 000	40 500	0	0	0	105 125	0	525 625	100	525 625	525 625
EUROPEAN ORGAN	CH	350 350	21 500	0	0	0	92 963	0	464 813	100	464 813	464 813
ATHENA RESEARC	EL	531 000	50 000	80 000	3 999 930	0	145 250	0	4 806 180	100	4 806 180	4 806 180
UNIVERSITAET BIE	DE	286 200	24 000	0	0	0	77 550	0	387 750	100	387 750	387 750
UNIVERSIDADE DO	PT	142 500	34 000	0	0	0	44 125	0	220 625	100	220 625	220 625
STICHTING EIFL.NE	NL	125 000	19 000	0	0	0	36 000	0	180 000	100	180 000	180 000
UNIVERSITEIT GEN	BE	111 800	17 000	0	0	0	32 200	0	161 000	100	161 000	161 000

Proposal ID **643410**			Acronym **OpenAIRE2020**								

Participant	Country	(A) Direct personnel costs/€	(B) Other direct costs/€	(C) Direct costs of sub-contracting/€	(D) Direct costs of providing financial support to third parties/€	(E) Costs of inkind contributions not used on the beneficiary's premises/€	(F) Indirect Costs / € (=0.25(A+B-E))	(G) Special unit costs covering direct & indirect costs / €	(H) Total estimated eligible costs / € (=A+B+C+D+F +G)	(I) Reimburse-ment rate (%)	(J) Max. grant / € (=H*I)	(K) Requested grant / €
UNIVERSITETET I C	NO	130 560	20 000	0	0	0	37 640	0	188 200	100	188 200	188 200
COAR e.V. - Confed	DE	99 000	35 000	0	0	0	33 500	0	167 500	100	167 500	167 500
STICHTING LIBER	NL	192 000	25 000	70 000	0	0	54 250	0	341 250	100	341 250	341 250
COOPERACION LAT	UY	42 000	22 000	0	0	0	16 000	0	80 000	100	80 000	80 000
UNIVERSITEIT VAN	NL	45 871	6 000	0	0	0	12 968	0	64 839	100	64 839	64 839
EUROPEAN MOLEC	DE	91 800	10 000	0	0	0	25 450	0	127 250	100	127 250	127 250
UNIVERSITAET BRE	DE	78 400	7 000	0	0	0	21 350	0	106 750	100	106 750	106 750
RHEINISCHE FRIED	DE	97 500	9 000	0	0	0	26 625	0	133 125	100	133 125	133 125
JISC	UK	147 000	30 200	0	0	0	44 300	0	221 500	100	221 500	221 500
STICHTING SURF	NL	145 000	3 000	0	0	0	37 000	0	185 000	100	185 000	185 000
KONINKLIJKE NEDE	NL	81 250	9 500	0	0	0	22 688	0	113 438	100	113 438	113 438

Proposal ID **643410**   *Acronym* **OpenAIRE2020**

Participant	Country	(A) Direct personnel costs/€	(B) Other direct costs/€	(C) Direct costs of sub-contracting/€	(D) Direct costs of providing financial support to third parties/€	(E) Costs of inkind contributions not used on the beneficiary's premises/€	(F) Indirect Costs / € (=0.25(A+B-E))	(G) Special unit costs covering direct & indirect costs / €	(H) Total estimated eligible costs / € (=A+B+C+D+F+G)	(I) Reimburse-ment rate (%)	(J) Max. grant / € (=H*I)	(K) Requested grant / €
TECHNISCHE UNIV	NL	81 250	9 500	0	0	0	22 688	0	113 438	100	113 438	113 438
UNIVERSITAET WIE	AT	44 800	24 000	0	0	0	17 200	0	86 000	100	86 000	86 000
INSTITUTE OF MAT	BG	36 400	20 000	0	0	0	14 100	0	70 500	100	70 500	70 500
RUDER BOSKOVIC	HR	18 200	21 000	0	0	0	9 800	0	49 000	100	49 000	49 000
UNIVERSITY OF CY	CY	28 602	29 000	0	0	0	14 401	0	72 003	100	72 003	72 003
VYSOKA SKOLA BA	CZ	36 000	19 000	0	0	0	13 750	0	68 750	100	68 750	68 750
SYDDANSK UNIVER	DK	63 000	17 000	0	0	0	20 000	0	100 000	100	100 000	100 000
TARTU ULIKOOL	EE	19 760	28 000	0	0	0	11 940	0	59 700	100	59 700	59 700
HELSINGIN YLIOPIS	FI	46 800	26 000	0	0	0	18 200	0	91 000	100	91 000	91 000
CONSORTIUM UNIV	FR	104 500	16 000	0	0	0	30 125	0	150 625	100	150 625	150 625
UNIVERSITAT KON	DE	77 000	14 000	0	0	0	22 750	0	113 750	100	113 750	113 750

Proposal ID **643410** Acronym **OpenAIRE2020**

Participant	Country	(A) Direct personnel costs/€	(B) Other direct costs/€	(C) Direct costs of sub-contracting/€	(D) Direct costs of providing financial support to third parties/€	(E) Costs of inkind contributions not used on the beneficiary's premises/€	(F) Indirect Costs / € (=0.25(A+B-E))	(G) Special unit costs covering direct & indirect costs / €	(H) Total estimated eligible costs / € (=A+B+C+D+F +G)	(I) Reimburse-ment rate (%)	(J) Max. grant / € (=H*I)	(K) Requested grant / €
ETHNIKO IDRYMA E	EL	72 150	13 000	0	0	0	21 288	0	106 438	100	106 438	106 438
DEBRECENI EGYET	HU	38 500	19 000	0	0	0	14 375	0	71 875	100	71 875	71 875
LANDSPITALI UNIV	IS	24 000	31 000	0	0	0	13 750	0	68 750	100	68 750	68 750
THE PROVOST, FEL	IE	60 678	17 000	0	0	0	19 420	0	97 098	100	97 098	97 098
CONSORZIO INTER	IT	54 000	22 000	0	0	0	19 000	0	95 000	100	95 000	95 000
LATVIJAS UNIVERS	LV	45 000	23 000	0	0	0	17 000	0	85 000	100	85 000	85 000
KAUNO TECHNOLO	LT	41 370	23 000	0	0	0	16 093	0	80 463	100	80 463	80 463
UNIVERSITE DU LU	LU	56 000	13 500	0	0	0	17 375	0	86 875	100	86 875	86 875
UNIVERSITA TA MA	MT	34 400	14 000	0	0	0	12 100	0	60 500	100	60 500	60 500
Sarminfo SRL	RO	13 300	22 000	0	0	0	8 825	0	44 125	100	44 125	44 125
UNIVERZITET U BE	RS	35 640	22 000	0	0	0	14 410	0	72 050	100	72 050	72 050

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Participant	Country	(A) Direct personnel costs/€	(B) Other direct costs/€	(C) Direct costs of sub-contracting/€	(D) Direct costs of providing financial support to third parties/€	(E) Costs of inkind contributions not used on the beneficiary's premises/€	(F) Indirect Costs / € (=0.25(A+B-E))	(G) Special unit costs covering direct & indirect costs / €	(H) Total estimated eligible costs / € (=A+B+C+D+F +G)	(I) Reimburse-ment rate (%)	(J) Max. grant / € (=H*I)	(K) Requested grant / €
		?	?	?	?	?	?	?	?	?	?	?
CENTRUM VEDECK	SK	30 000	18 000	0	0	0	12 000	0	60 000	100	60 000	60 000
UNIVERZA V LJUBL	SI	41 424	21 000	0	0	0	15 606	0	78 030	100	78 030	78 030
FUNDACION ESPAN	ES	52 500	20 000	0	0	0	18 125	0	90 625	100	90 625	90 625
KUNGLIGA BIBLIOT	SE	56 000	20 000	0	0	0	19 000	0	95 000	100	95 000	95 000
UNIVERSITAET ZUB	CH	80 000	26 000	0	0	0	26 500	0	132 500	100	132 500	0
IZMIR INSTITUTE O	TR	30 000	28 000	0	0	0	14 500	0	72 500	100	72 500	72 500
UNIVERSITY COLLE	UK	48 748	3 000	0	0	0	12 937	0	64 685	100	64 685	64 685
Total		5 931 653	1 178 400	245 000	3 999 930	0	1 777 517	0	13 132 500		13 132 500	13 000 000

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4 - Ethics issues table

1. HUMAN EMBRYOS/FOETUSES i		Page
Does your research involve Human Embryonic Stem Cells (hESCs)?	○ Yes ◉ No	
Does your research involve the use of human embryos?	○ Yes ◉ No	
Does your research involve the use of human foetal tissues / cells?	○ Yes ◉ No	
2. HUMANS		Page
Does your research involve human participants?	○ Yes ◉ No	
Does your research involve physical interventions on the study participants?	○ Yes ◉ No	
Does it involve invasive techniques?	○ Yes ◉ No	
3. HUMAN CELLS / TISSUES		Page
Does your research involve human cells or tissues? If your research involves human embryos/foetuses, please also complete the section "Human Embryos/Foetuses" [Box 1].	○ Yes ◉ No	
4. PROTECTION OF PERSONAL DATA ii		Page
Does your research involve personal data collection and/or processing?	○ Yes ◉ No	
Does your research involve further processing of previously collected personal data (secondary use)?	○ Yes ◉ No	
5. ANIMALS iii		Page
Does your research involve animals?	○ Yes ◉ No	

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6. NON-EU COUNTRIES		Page
Does your research involve non-EU countries?	◉ Yes ◯ No	68
Norway, Turkey, Serbia, Switzerland, Uruguay, Iceland		
Do you plan to use local resources (e.g. animal and/or human tissue samples, genetic material, live animals, human remains, materials of historical value, endangered fauna or flora samples, etc.)?	◯ Yes ◉ No	
Do you plan to import any material - including personal data - from non-EU countries into the EU? If you consider importing data, please also complete the section "Protection of Personal Data" [Box 4].	◯ Yes ◉ No	
Do you plan to export any material - including personal data -from the EU to non-EU countries? If you consider exporting data, please also complete the section "Protection of Personal Data" [Box 4].	◯ Yes ◉ No	
If your research involves low and/or lower middle income countries, are benefits-sharing measures foreseen?	◯ Yes ◉ No	
Could the situation in the country put the individuals taking part in the research at risk?	◯ Yes ◉ No	
7. ENVIRONMENT PROTECTION vi Directive 2001/18/EC - vii Directive 2009/41/EC - viii Regulation EC No 1946/2003 - ix Directive 2008/56/EC x Council Directive 92/43/EEC -xi Council Directive 79/409/EEC - xii Council Regulation EC No 338/97		Page
Does your research involve the use of elements that may cause harm to the environment, to animals or plants?	◯ Yes ◉ No	
Does your research deal with endangered fauna and/or flora and/or protected areas?	◯ Yes ◉ No	
Does your research involve the use of elements that may cause harm to humans, including research staff?	◯ Yes ◉ No	
8. DUAL USE Xiii		Page
Does your research have the potential for military applications?	◯ Yes ◉ No	
9. MISUSE		Page
Does your research have the potential for malevolent/criminal/terrorist abuse?	◯ Yes ◉ No	

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10. OTHER ETHICS ISSUES		Page
Are there any other ethics issues that should be taken into consideration? Please specify	○ Yes ◉ No	

I confirm that I have taken into account all ethics issues described above and if any ethics issues apply, ☒
I have attached the required documents.

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5 - Call specific questions

Open Research Data Pilot in Horizon 2020

If selected, all applicants will participate in the Pilot on Open Research Data in Horizon 2020[1] , which aims to improve and maximise access to and re-use of research data generated by actions. Participating in the Pilot does not necessarily mean opening up all research data. Actions participating in the Pilot will be invited to formulate a Data Management Plan in which they will determine and explain which of the research data they generate will be made open.

Applicants have the possibility to opt out of this Pilot and must indicate a reason for this choice.

Participation in this Pilot does not constitute part of the evaluation process. Proposals will not be evaluated favourably because they are part of the Pilot and will not be penalised for opting out of the Pilot.

We wish to opt out of the Pilot on Open Research Data in Horizon 2020.	◯ Yes	⦿ No

[1] *According to article 43.2 of Regulation (EU) No 1290/2013 of the European Parliament and of the Council, of 11 December 2013, laying down the rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)" and repealing Regulation (EC) No 1906/2006.*

Data management activities

The use of a Data Management Plan (DMP) is required for projects participating in the Open Research Data Pilot in Horizon 2020, in the form of a deliverable in the first 6 months of the project.

All other projects may deliver a DMP on a voluntary basis, if relevant for their research.

Are data management activities relevant for your proposed project?	⦿ Yes	◯ No

A Data Management Plan will be delivered (Please note: Projects participating in the Open Research Data Pilot **must** include a Data Management Plan as a deliverable in the first 6 months of the project).	☒
Data Management is part of a Work Package.	☒
Data Management will be integrated in another way.	☐

H2020-EINFRA-2014-1
Topic: e-Infrastructure for Open Access

Research and Innovation action

OpenAIRE2020

Open Access Infrastructure for Research in Europe towards 2020

List of participants

Participant No *	Participant organisation name	Short name	Country
1 (Coordinator)	University of Athens	UoA	GR
2	Georg-August-Universitaet Goettingen Stiftung Oeffentlichen Rechts	UGOE	DE
3	Consiglio Nazionale delle Ricerche	CNR	IT
4	Uniwersytet Warszawski	ICM	PL
5	European Organization for Nuclear Research	CERN	CH
6	ATHENA Research and Innovation Center in Information, Communication and Knowledge Technologies	ARC	GR
7	Universitaet Bielefeld	UNIBI	DE
8	Universidade Do Minho	UMINHO	PT
9	Stichting eIFL.net SE Netherlands	EIFL	NL
10	Universiteit UGENT	UGNET	BE
11	Universitetet i Oslo	CRIStin	NO
12	COAR e.v. - Confederation of Open Access Repositories	COAR	DE
13	Stichting LIBER	LIBER	NL
14	Cooperacion Latinoamericana de Redes Avanzadas	CLARA	UY
15	Universiteit van Amsterdam	UvA	NL
16	European Molecular Biology Laboratory	EMBL	DE
17	Universitaet Bremen	UniHB	DE
18	Rheinische Friedrich-Wilhelms-Universitat Bonn	UBONN	DE
19	JISC	Jisc	UK
20	Stichting SURF	SURF	NL
21	Koninklijke Nederlandse Akademie van Wetenschappen – KNAW	DANS-KNAW	NL
22	Technische Universiteit Delft	TU Delft	NL
23	Universitaet Wien	UNIVIE	AT
24	Institute of Mathematics and Informatics at the Bulgarian Academy of Science	IMI-BAS	BG
25	Ruder Boskovic Institute	RBI	CR
26	University of Cyprus	UCY	CY

27	Vysoka Skola Banska - Technicka Univerzita Ostrava	VSB-TUO	CZ
28	Syddansk Universitet	SDU	DK
29	Tartu Ulikool	UT	EE
30	Helsingin Yliopisto	HY	FI
31	Consortium Universitaire de Publications Numeriques	COUPERIN	FR
32	Universitat Konstanz	UKON	DE
33	Ethniko Idryma Erevnon	EKT-NHRF	GR
34	Debreceni Egyetem	DE	HU
35	Landspitali University Hospital	LUH	IS
36	Trinity College Dublin	TCD	IE
37	Consorzio Interuniversitario Cineca	CINECA	IT
38	Latvijas Universitate	LU	LV
39	Kauno Technologijos Universitetas	KTU	LT
40	Universite du Luxembourg	ULUX	LU
41	Universita ta Malta	UOM	MT
42	Sarminfo SRL	Sarminfo	RO
43	Univerzitet u Beogradu	UB	RS
44	Centrum Vedecko Technickych Informacii Slovenskej Republiky	CVTI SR	SK
45	Univerza v Ljubljani	UL	SL
46	Fundacion Espanola Para la Ciencia y la Tecnologia	FECYT	ES
47	Kungliga Biblioteket	KBSE	SE
48	Universitaet Zuerich	UZH	CH
49	Izmir Institute of Technology	IIT	TR
50	University College London	UCL	UK

Table of Contents

1 Excellence

1.1 Objectives

> "The European Commission emphasises **open access** as a key tool to bring together people and ideas in a way that catalyses science and innovation. To ensure economic growth and to address the societal challenges of the 21st century, it is essential to optimise the circulation and transfer of scientific knowledge among key stakeholders in European research —universities, funding bodies, libraries, innovative enterprises, governments and policy-makers, non-governmental organisations (NGOs) and society at large. […]
>
> The Commission envisions a future in which the **data infrastructure becomes invisible** and the information itself is an infrastructure from the user's perspective.[…]
>
> To improve access to scientific information, Member States, research funding bodies, researchers, scientific publishers, universities and their libraries, innovative industries, and society at large need to **work together**."
>
> *(EC COM, 17 July 2012)*

Scholarly communication is a global endeavour and Open Access has become a favoured mode to disseminate research output around the world. It has been adopted as the default policy for accessing all research results funded by the European Commission in the context of Horizon 2020. Similar policies are being adopted and implemented in other countries around the world as well, and numerous open access infrastructures and services are being developed to address the needs of different thematic disciplines, geographical regions, and stakeholder communities.

More than ever before, there is a recognized need for further integration and sharing of existing and evolving digital research infrastructures for <u>all kinds of research outputs</u>, across research disciplines and countries. To realise the vision of an open access, comprehensive *Scholarly Communication and Research Information Infrastructure*, requirements from the perspectives of **two main stakeholder groups** need to be addressed:

1. **Researchers:** Usability, incentives to share research output, diversity of research disciplines.
2. **Funders** (national & EC): Cost synergy optimisation (esp. under economic pressure), research impact monitoring

In addition, one needs to consider crucial on-going infrastructure and policy developments at several different levels:

- **National and institutional** – Identification of common practices and better coordination activities overall.
- **Scientific (**pan-European efforts, ESFRI projects) – Publishing and access tools within scientific communities.
- **International** – Global research undertakings, integration of many interconnected components.

To **ensure infrastructure usability and acceptance**, the effort must involve all relevant stakeholders:

- Actively engage and work hand-in-hand with **researchers**, especially young researchers, who are more amenable to *evaluating and adopting* relevant practices as users (domain scientists) and enablers (data scientists).
- Coordinate with **universities, research institutions, and their libraries & computing centres**, to ensure a *long-term sustainable, cost-efficient, and trustworthy* system of primary infrastructures on which aggregators may be built.
- Encourage **member states** to secure *adequate funding* to the above organisations and to *harmonise OA policies* so that a *pan-European (ERA) research information infrastructure* may be implemented.
- Open up and involve **publishers and innovative enterprises** (e.g., PSI, creative and geo-related industries) so that appropriate *business models and value-added services* on scholarly communication may be developed and applied.

To establish the envisioned infrastructure, several concrete and tangible steps need to be taken:

- Establish **infrastructure policies** that address fundamental issues such as service reuse, quality of service, and where possible, infrastructure use as requirement.
- Ensure **technical and policy interoperability** to support interdisciplinary research. Intensify & broaden participation in related forums (e.g., RDA) and facilitate medium scale service-pilots across disciplines with tangible effects/results.
- Support **service-based scholarly communication**, piloting generic "big" scientific **data processing services** on top of scientific results (publications and data), to showcase the usefulness of the underlying interlinked infrastructures.
- **Bridge the gaps** between practices from different domains (sciences, arts and humanities, government, learning and education) through focused activities between key members of each stakeholder group.

Main Objective

Establish an **open** and **sustainable scholarly communication infrastructure** responsible for the overall management, analysis, manipulation, provision, monitoring and cross-linking of all research outcomes (**publications**, related **datasets, software** and **services)** across existing, planned and future repositories. Promote the **discoverability** and **reuse** of data-driven research results, across scientific disciplines and thematic domains.

OpenAIRE has already been established as *the* point of reference for Open Access to research publications in Europe. It has **created operating links** to related data infrastructures, registries and initiatives (EBI, arXiv, CERN, DataCite, re3data.org, OpenDOAR, ROMEO/FACT, ORCID, EGI, EUDAT), and has established the foundations for an **integrated Open Scholarly Communication Infrastructure**, offering technical and support services to a wide range of stakeholders:

- – Researchers get informed about OA policies and are aided to comply with them;
- – Research communities gather their scientific output and assess its impact;
- – Institutional research administrators align and manage different OA policies and workflows;
- – Repository managers make their content visible to a wide interlinked network;
- – Project officers & funders monitor their programmes' research output and assess the return on their investment;
- – Publishers engage with OA business models.

Open Access is becoming a *modus operandi* in scholarly communication, with many paths of implementation. Different publication workflows, infrastructures, practices among disciplines, and cultures, all clearly indicate that **no one solution fits all**. OpenAIRE2020 builds upon and continues the multi-faceted approach that started in the preceding OpenAIRE projects to build **human and technological capacities** to facilitate the uptake of OA by all stakeholders.

HUMAN CAPACITIES: A PAN-EUROPEAN NETWORK OF FACILITATING SUPPORT STRUCTURES

The network of National Open Access Desks (NOADs) of OpenAIRE provides an effective OA communication & outreach platform with active presence in 33 European countries. It is a **network of people**, OA experts who facilitate the local, national or institutional, dialogue to **advance OA policies** and cross-pollinate regional ideas and expertise to support the EC mandates. They promote technical interoperability by issuing relevant guidelines, establishing OpenAIRE compliant repositories, operating a **comprehensive technical support system,** and advocating the use of OpenAIRE services throughout Europe. With their active presence at over 600 key national events in 4 years, they engage European research communities, libraries, repositories and data centers, publishers and other stakeholders to develop a common understanding among them and address the emerging challenges in scholarly communication, regarding publishing workflows of articles, books and data.

The 3-year duration of the FP7 OA pilot has provided ample time to promote and, in many cases, establish the role of the NOADs within their national settings. They are closely related to the National Reference Points (NRPs) named in response to the 2012 EC OA recommendation and they are in a good position to **influence policy decision makers**. In parallel, the NOADs themselves have gained considerable expertise in outreach skills, which is much needed in the effort towards the global OA mandate for scientific publications and the Open Data Pilot in H2020.

To address the new challenges in front of it, OpenAIRE2020 strengthens the NOAD network in the following ways:

1. Directs **considerable resources** to NOADs (2.5 times more than in past projects), **extending their responsibilities** to (i) reach out to a wide range of researchers and projects (project coordinators and officers) for H2020 compliance, (ii) contact NRPs and national policy makers for OA policy alignment, (iii) work with research libraries and data centers to promote good practices for collaboration in Research Data Management (RDM), and (iv) introduce the OpenAIRE CRIS services to national and regional funders, to incorporate research data into the system and achieve an ERA-wide CRIS.
2. Stresses the importance of **compact management** of the NOAD network, by introducing mechanisms for efficient planning with regular follow-ups, to realign plans when needed, and with frequent communication of strategic directives from the senior management to the NOADs.
3. Promotes **active** NOAD **engagement** in technical and organizational tasks. Selected NOADs will contribute by bringing in their expertise and aligning OpenAIRE with national infrastructure services, e.g., repository brokers, repository usage data for metrics, guidelines, CRIS interoperability, Gold OA workflows and monitoring.

TECHNOLOGICAL CAPACITIES: A ROBUST AND INTEGRATED TECHNICAL OA INFRASTRUCTURE

The current OpenAIRE infrastructure and services focus on OA material deposited in a wide range of repositories: institutional or thematic publication repositories, OA journals, data repositories, CRISs and aggregators. It has created a

clean, de-duplicated information space that harvests metadata from 420+ **validated** data providers, contains metadata for 8.4 mi publications (90K of them linked to 11K projects), ~1000 linked datasets, 12K organizations and 8M authors.

It offers functionality to end-users & applications to (a) **search for** & **access** publications, data, projects, data providers, organizations, software (b) **deposit** these in Zenodo, a general purpose repository supported by the infrastructure, offered to researchers & communities with no relevant home repository, (c) **claim** scientific results when interoperability standards are lacking, and (d) retrieve **real-time**, **on-demand statistics and reporting services** for OA policy monitoring.

To serve the EC need for gathering scientific output from its funding streams, OpenAIRE2020 takes the following actions:

1. Places significant value on **quality of data and content provision,** through the development of new services that (i) better control internal workflows to avoid mishaps (from data harvesting to data provision), (ii) apply semantic curation processes for improved interlinking, and (iii) establish and apply SLAs to its content and service provision.

2. Continues to support and promote the use of **standards** through the guidelines[1] and validation tools of OpenAIRE for harmonizing the differences between participating systems. Special effort is given to align with similar initiatives (CERIF, DataCite, COAR, Rioxx, NISO, ANDS, etc.) to allow all constituents to participate seamlessly in a global open scholarly communication eco-system with publication repositories, OA Journals, data repositories and CRISs.

3. Adds **new key infrastructural services** for interoperability enhancement:

   – *Open Access Publication Brokerage* – Acts as a hub to **facilitate information exchange** on publications between repositories through real-time notification mechanisms, helping with repository population.

   – *Literature-Data Brokerage* – Involves domain-specific organisations with a track record of excellence in dataset-literature management (EBI, PANGEA, DANS) to provide mechanisms for data citation. With already established links to Force11 Data Citation Synthesis and Implementation Groups[2], the team will work with publishers and repositories to **build community consensus regarding data citation standards**. Advancing the work of the RDA/WDS Data Publishing Services working group[3], it will develop a **data citation-interlinking service** that collects and resolves DOI-2-DOI cross-references between datasets and publications from publishers, data repositories and other infrastructures, while ensuring the principles of **openness and reciprocity**.

   – *Linked Open Data (LOD)* – Extends technical interoperability to provide **scholarly communication content as LOD objects**. It will map to and engage with related open content initiatives, such as Open Educational Resources, Public Sector Information (often used as datasets in Social Sciences and Humanities), and DBpedia.

Beyond the above main objective, OpenAIRE2020 addresses the following specific objectives.

Objective #1

Support the H2020 vision of open access for scientific publications and the Open Data Pilot for H2020: make OpenAIRE a central infrastructure and service in H2020.

The existing OpenAIRE infrastructure serves as a **solid foundation for implementing the Open Access mandates** of the European Commission and other countries/funders/institutions. It is concerned with publications and datasets produced by projects funded by the EC and the European Research Council in _all_ scientific areas, thereby identifying and highlighting publication-project links. During the FP7 OA pilot, it has established procedures to (i) collect and identify all EC publications, and (ii) provide services for researchers to deposit in its repository or OA journal network.

The H2020 OA mandate for scientific publications regards OpenAIRE as a key infrastructure and service, with high expectations to deliver concrete results: **easy workflows for OA publishing, discovering and monitoring of scientific outcomes**. The H2020 Open Data Pilot demands new support activities and services, some similar to those in the FP7 OA pilot on publications and some brand new, to address unique complexities of institutional/project data management.

The following are specific actions in OpenAIRE2020 to implement the H2020 OA mandates:

OUTREACH, SUPPORT AND TRAINING

– Reinforce the OpenAIRE NOAD network outreach and helpdesk activities to cover H2020 in its entirety; support tools (guides, helpdesk, FAQs, information & dissemination material) will be extended to include H2020 policies; training programmes to showcase workflows will specifically target projects (coordinators), funders (EC officers of all directorates, all levels) and institutions (research administrators and repository managers) for OpenAIRE compliance.

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[1] guidelines.openaire.eu

[2] https://www.force11.org/datacitationsynthesisgroup, https://www.force11.org/datacitationimplementation

[3] http://www.icsu-wds.org/community/working-groups/data-publication, https://rd-alliance.org/internal-groups/rdawds-publishing-data-ig.html

– Involve and engage NOADs in Research Data Management aspects so as to (i) effectively guide eligible H2020 projects and (ii) promote and ascertain the role of the institution/library with a goal of increasing infrastructural capacities. This includes the promotion of Zenodo, as a model of and good practice for an institutional repository providing front-end curation and support services and being interoperable with a data center.

TOOLS AND SERVICES

– Identify H2020 publications through a series of services: harvesting from OA data sources, claiming on the portal, web crawling and text mining of various sources such as OA publishers, repositories, scholarly societies, etc.

– Assist project coordinators in H2020 reporting through direct OpenAIRE / EC systems data exchange.

– Provide monitoring tools (MyOpenAIRE) for project coordinators, officers and research managers to assess the scientific project outcomes, including OA evaluation (compliance with the mandate).

– Integrate data publication into the harvesting/notification workflows via promotion and outreach to data repositories.

– Offer specialized Zenodo services for researchers to deposit datasets and publications pertaining to their H2020 projects, especially when there is no alternative repository to comply with the relevant policy requirements.

– Provide legal guidance for H2020 project participation in the Open Data Pilot, identifying the required steps, relevant consequences and the resulting obligations, recognising whether or not specific projects are covered and to what extent, and indicating how all legal obligations towards data, data subjects, and other parties involved are satisfied.

– Provide guidance and technical services for anonymising sensitive data, removing much of the relevant burden from project managers and scientists.

– Establish and run a pilot on FP7 post-grant Article Processing Charges (APC), stimulating OA journal publishing and providing evidence that will guide the establishment of a sustainable & competitive market for H2020 OA publications.

Objective #2

Build a pan-European Research Information platform to monitor OA research outcomes from the EC and other national funders. Develop research analytics tools to promote new scientific metrics and support evidence-based decision-making.

A Europe-wide quality **Research Information Management System** on the scientific outputs related to the EC and other European funders is critically needed. It shall combine scientific outcomes from different regions (geographic or thematic), link, correlate, measure and analyze research activity across institutions, countries, and disciplines, and ultimately be used for **evidence-based decision-making** for research. OpenAIRE fills exactly this gap, as it establishes an integrated research information space (*interlinked publications, data, funding, people, organizations, data providers, software and services*) with data management support that can drive the vision of **open** and **participatory** data-intensive science.

The following targeted actions of OpenAIRE2020 aim to place OpenAIRE as a key strategic facilitator in this process.

PAN-EUROPEAN RESEARCH INFORMATION SYSTEM

– Engage with national funders to extend existing services and showcase the benefits of **a pan-European CRIS**. Study the commonalities of funding scheme implementations and promote **guidelines** for effective interoperation.

– Consolidate existing services (text-mining, de-duplication, content classification/clustering, citation analysis, etc.) to achieve a curated interconnected **scholarly communication CRIS based** system.

– Integrate with emerging **PID infrastructures** (DataCite, ORCID) and see how these can be incorporated into the OpenAIRE infrastructure (i.e., propagated to the repository level) aiming at an efficient monitoring system.

– Engage with **research communities** (e.g., EGI, EuroMarine, FET flagships, facilities) who are keen to identify and aggregate their scientific outputs towards quantitative and qualitative monitoring and assessment.

RESEARCH ANALYTICS FOR ASSESSMENT AND IMPACT

– Proactively explore the establishment of new multidimensional **scholarly performance indicators** (activity, impact and positional indicators) in OA scholarly communication. Explore indicators for second level impact that link OA to possible **social, cultural and economic impact** (patents, EU stats, social media, web impact, etc.).

– Implement an **OpenAIRE usage analytics** service for repository usage data and promote the service to all European institutions. This service will gather, aggregate and re-distribute usage statistics for any scientific outcome.

– Develop advanced **research analytics** through the mapping and analysis of OA scholarly communication to obtain evidence on the **structuring effects** related to specific research areas, the **lasting effects of networks,** and the creation of scientific societies and communities over time, across Europe in geographic or disciplinary regions.

Objective #3

Create an international OA repository collaboration platform to support truly global research and scholarly communication.

With support from the Global Research Council, the G8 Science Ministers, the European Commission as well as numerous funding agencies around the world, countries and regions are adopting OA policies and developing repository networks to support them. Heterogeneity is prevalent in these efforts and signals a clear need for alignment activities.

Despite its diverse landscape in OA policies, technical infrastructures, legal frameworks, and culture, Europe is well ahead in relation to other similar regional repository initiatives, with OpenAIRE as its key OA, open knowledge infrastructure. The H2020 OA mandates, the support and vision of the EC, the technical maturity as illustrated by the existing services, and the established NOAD network, make OpenAIRE a fitting candidate to facilitate these efforts. OpenAIRE2020 will advance the dialogue that started by COAR in March 2014 in Rome, where delegates from regional initiatives in Australia, China, Europe, Latin America, and the USA identified several key elements of an ongoing collaboration comprising a wide range of issues (policies, guidelines, usage data, impact, linking and integration to data repositories) to further align their repository networks. This dialogue will identify priorities and determine mechanisms for working together through **targeted workshops and pilots** to showcase **interoperability of content** (adaptation and adoption of OpenAIRE guidelines), **services** (sharing of protocols for publications, data, registries) and **organizational models**.

Furthermore, OpenAIRE2020 will participate in international collaboration efforts that go beyond publications and embrace the long tail of data driven science, its management and its links to the traditional publication system. These partnerships include the **development of pilot services** and target data standards and the alignment of **Research Data Management** methods (ANDS, NCSA, RDA), **data citation** services (Force11), and **data-publication broker** services (RDA/WDS).

Objective #4

Make OpenAIRE a hub for 3rd party providers to build innovative services that explore new forms of scholarly communication and promote alternative, competitive Open Access publishing models.

The different levels of OA implementation have triggered several discussions on the effectiveness of institutional vs. thematic publication repositories, the quality of OA journals in conjunction with the transparency and functionality of the future market for APCs, the role of libraries in the editorial process and the visibility of reviewers, and the automation of reviewing/editing processes to lower publishing costs to competitive levels. In response to these, a very young, very active community around the globe that supports open scholarship has come up with a **wide range of innovative services that promote openness** in all stages of scientific scholarship, from researcher collaboration, to open reviewing, to final publication and accessibility. These ventures are very timely and relevant since they promote a **new culture in publishing** and put pressure on traditional approaches in terms of practices and costs. They make the normally behind-the-scenes process more transparent and could ultimately lead to social and economic adjustments, necessary for **competitive and sustainable publishing models**.

OpenAIRE2020 embraces these young innovators and out-of-the-box thinkers, to complement the OpenAIRE partners' expertise in traditional publishing models and practices, through a **tender mechanism,** which will allow them to develop publishing services on top of the OpenAIRE infrastructure, making it a testbed for **alternative scholarly communication services** that help scientific communities experiment with open scholarship, address legitimate concerns on confidentiality, attribution, and bias, and investigate balanced, sustainable economic models. This will process will also **improve the uptake of the infrastructure** and provide added value services for **self-sustained operation over time**.

Objective #5

Make OpenAIRE a legal entity to promote its long-term sustainability and uptake.

OpenAIRE is an international infrastructural service provider, which delivers **trusted content** to its many different stakeholders, and **runs a round-the-clock set of services** via its portal. At the same time it is a collaborative infrastructure, which brings together regional and global endeavours. This distributed approach has to be managed and coordinated, at a practical and centralized level, in order to demonstrate **its commitment to be a reliable and sustainable service provider** and to gain trust from its users and ongoing uptake of its services. Established in the first 12 months of the project, this legal framework will demonstrate ongoing stability, in its business operation and management procedures. The OpenAIRE entity will set out a coherent set of policies for the operation of OpenAIRE, governance, financing, inclusion of new partners within an official framework, as well as the legal aspects of the operation. In doing so it will study and analyse possible models for its long-term sustainability. This will entail creating a business plan and funding model, and clarifying membership models and levels of contribution, in order to reach the objectives of the entity.

1.2 Relation to the work programme

Work programme topic	WPs	Activities
Europe needs a robust e-infrastructure supporting Open Access policies, also for Horizon 2020. This infrastructure, based on already existing e-infrastructures (institutional and thematic repositories, aggregators, etc.), should support reliable and permanent access to digital scientific records.	WP2 WP4 WP6	OpenAIRE is an existing infrastructure and participatory platform with more than 420 validated institutional and thematic repositories and OA journals, 4 aggregators, 8mi publications with 100K of them linked to projects (FP7 and Wellocme Trust) and 2K of them linked to datasets. Since Dec 2009, OpenAIRE has offered robust services (0 downtime) to researchers, repository managers and project coordinators/officers.
…Service-driven data e-infrastructure responding to general and specific requirements of researchers and research organisations for open access to and deposit of scientific information (including journal articles, books, monographs, conference proceedings, thesis, grey literature, software and data, as well as services linking literature, data and software).	WP6 WP8 WP9	OpenAIRE is a data e-Infrastructure that serves researchers and organizations to deposit, discover and monitor *all* types of scientific outcomes. It will extend its technical services (mining, front-end claiming) for linking/integrating literature to data. OpenAIRE2020 will extend its data model to link publications and data to software, while Zenodo will allow the upload of software packages or links to GitHub for linked services.
…provide service driven infrastructures to enable wide participation in the Open Research Data Pilot.	WP4 WP6 WP7 WP9	OpenAIRE2020 will have a multifaceted approach to support the H2020 Open Research Data Pilot: support structures in all Europe (NOADs) who will extend their activities to promote Research Data Management plans and mechanisms; services to link and monitor data produced by H2020 projects; legal and technical services to address the sensitive data issues; Zenodo services for data deposition services when an institutional or thematic repository is not available.
…capacity building to link literature and data in order to enable a more transparent evaluation of research and reproducibility of results.	WP7 WP8	OpenAIRE will participate in global initiatives to achieve the data-literature integration tasks in an infrastructural and persistent way: Force11 Data Citation Implementation group and RDA/WDS data publishing services group. Will also strengthen its links to data registries (re3data.org, DataCite, ORCID) through the use of common services and infrastructures (validation, PIDs).
An essential part of this service-driven approach will be helpdesks designed to support the producers and users of scientific information, human networks to support data sharing and implementation of Open Access policies in Europe…	WP4 WP2	OpenAIRE2020 will continue service provided by its pan-European support platform (NOADs) that offer assistance at the local (national and institutional) level. In particular, the NOAD network will intensify its activities to: (i) support the global H2020 publication policies with advanced training material (links to the open course FOSTER project), (ii) link to the policies effort of the PASTEUR4OA project that brings the NRPs, (iii) extend its outreach and training activities for research data management mechanisms and plans, and (iv) bring more funders on board. Special effort will be given to bridge OpenAIRE with the UK infrastructure.
…the promotion of technical solutions for sharing of sensitive data…	WP7 WP9	OpenAIRE2020 will provide services through two tasks: (i) a legal study that will identify and promote clarifications/solutions to assist the non-opt out route and uptake of the H2020 OA data pilot, and (ii) a technical service that will provide state of the art anonymization services to H2020 projects.
…be incorporated as a legal entity within the first year of the project	WP1	An ongoing (OpenAIREplus) sustainability study that will propose a business model will feed into a dedicated task in OpenAIRE2020 to define and create the new legal entity, its legal and economic aspects, as well as its governance model.

Work programme topic	WPs	Activities
…provide relevant indicators on the take-up of open access in Europe including for both publications and data should be elaborated and reported upon regularly. The project will promote a limited set of biblio- and webometrics that reflect open access policies. It will collect bibliometric data on publications, citations, data citations, etc. on all Horizon 2020 scientific output (including on the Open Research Data Pilot) and produce both standard and on-demand statistics.	WP7 WP8 WP9 WP10	OpenAIRE2020 will address this topic in three ways: – fund a study by the experts of CWTS in Univ. of Leiden that will investigate different indicators and how these can be combined to promote article level metrics – promote the OpenAIRE analytics service to repositories and collect and aggregate usage statistics that may be further used to promote the article level metrics – provide a statistics service that can be used by research administrators to provide on-demand, custom-tailored statistics and reports on all scientific outcome in the OpenAIRE Information Space.
Developing proof of concept and prototyping new services in support of open science (e.g. new forms of publishing, innovative services based on data mining, new forms of peer review etc.),	WP9 WP10	The text and data mining activities started in the current OpenAIREplus project will continue and grow in terms of supporting additional metadata extraction, author-organization affiliation, advanced classification and clustering to include spatio-temporal and cross-language techniques to determine the structural impact of funding. OpenAIRE2020 will issue two tenders for 4 prototype services that use the infrastructure as a testbed and build services that (i) will look into alternative forms of publishing for a *competitive* OA environment, and (ii) use the aggregated content and services to create value added services, thus promoting the uptake by young innovators and 3rd party service providers.
Such an action will include an analysis of alternative means of public support to Gold Open Access in order to identify the optimal approach. … piloting a mechanism to stimulate publishing in open access journals by paying authors part or all of the article processing charges they incurred after the end of their grant agreement with the Commission… Any other conditions that would be necessary to enable as many authors as possible to participate and to ensure that this service contributes to the development of a sustainable and competitive market for scientific open access publishing should be indicated	WP5	A dedicated, multi-faceted task will address the call topics and will: – define policies and workflows for APC processing that aligns with existing or emerging national and institutional mechanisms (UK, NL, UGOE, UCL); – extend and adapt the OpenAIRE data model and services to closely monitor the workflows to ensure their optimal use and to produce reports that will give an insight into costs and processes; – run a 24 month pilot implementing workflows; promote the service to all NOADs to engage researchers around Europe; – engage publishers in a dialogue to discuss all relative issues: competitive prices, workflows, uptake; – carry out a market analysis that can be used by the EC and institutions alike to assess the specifics of the Gold OA model;
Supporting the global interoperability of open access data e-infrastructures and linking with similar initiatives across the globe in order to complement the physical access to research facilities with data access and to ensure that Europe plays a leading role in international collaborations.	WP3	One of the main tasks in WP3 is to focus on aligning regional (geographic or thematic) repository networks and to build on the work already being undertaken by COAR. The aim is to accelerate current activities in the area of interoperability by facilitating the exchange of good practices and the adoption of shared indicators, services and technologies. Specific pilots will be carried out with CLARA/La Referencia in Latin America to enable an OpenAIRE-like model and services; with SHARE in the US that will interoperate through a common or similar notification system; with ANDS in Australia to align with standards to datasets.

Table 1 illustrates a number of first level indicators that OpenAIRE2020 will be monitoring throughout its operation and will put maximum efforts towards their fulfilment.

Table 1. OpenAIRE2020 Success Indicators.

Indicator	Success Measure	Success Target
# of compliant publication repositories	An overtime increase in the number of registered repositories (the trend will be to stabilize). Full alignment with national infrastructures at all levels (e.g., UK, NL, NO).	80% of European research library repositories registered in OpenDOAR by the middle of H2020.
# of compliant data repositories	An overtime increase in the number of registered repositories (the trend will be to stabilize). Full alignment with national and global infrastructures (DataCite).	40-50% of European data repositories registered in re3data.org compliant to OpenAIRE guidelines by the middle of H2020.
# of compliant OA journals	An overtime increase in the number of registered journals. Criteria linked to # provided by DOAJ.	Hard to estimate since there is an increasing number of OA around the world.
# of FP7/H2020 publications identified	An overtime increase in the number of collected or inferred links to FP7 and H2020 projects (the trend will be to stabilize).	Hard to estimate since there is no past authoritative information.
# OA evaluation in H2020	Depends on the overall estimation of H2020 publications	60-70% of what is reported in the EC IT systems
# of datasets linked to scientific publications	Increasing trend is sufficient.	10-20% of identified projects by the end of H2020
# of objects linked to scientific publications (learning material, PSI)	Increasing trend is sufficient.	Hard to estimate.
# of project coordinators using OpenAIRE for reporting	Progressive over the years.	At least 80% by the end of H2020
# of third-party OpenAIRE information space consumers (e.g., services, infrastructures, systems, projects)	An overtime increase in the number of third-party services interested to consume the information space	Hard to estimate.
# of registered end-users	An overtime increase in the number of end-users registered to OpenAIRE	Hard to estimate.
# of unique hits in the portal	An overtime increase in the number of end-users registered to OpenAIRE	Hard to estimate.
Technical uptime ratio	Services are run on a 24x7 basis	99.99% (as was in 2013-2014)
Number of training meetings per area/per country	All stakeholder groups in work plan are invited and engaged at these events	2 per year.
Helpdesk served a significant growth in requests	Fast response and customer satisfaction on response	99% of requests meet expected quality of service.
Response to OpenAIRE's project coordinator outreach	% of responses from emails to EC projects and follow-up of services	50% in the first 2 years of H2020
Wide uptake and readership of OpenAIRE Newsletter	Growth in number of follow-up hits on articles (upwards of 2000 in 2015) and wider exposure of OpenAIRE	10% for article reading when newsletter is published. 5% article redirection.
Seamless uptake of publication funds to maximum level allowed	# of projects that publish in Gold OA	Average of 2 publications per project publish in an OA journal.

1.3 Concept and approach

OpenAIRE2020 will continue, extend and intensify the activities of the existing OpenAIRE infrastructure. It will provide support and services for the H2020 OA policies, for both publications and data, and it will engage with other national funders and infrastructures so as to provide _the_ European Open Access infrastructure. In doing so, it will actively involve a wide range of stakeholders: researchers to comply with OA policies; project officers and funders to monitor the research outcomes of their programmes; research administrators at the institutional level who are called to align and manage at the local level the different high level policies; repository managers who want their content to be visible and part of the network; research communities who want to gather their scientific outputs and assess the impact these outputs make; publishers engaged into OA business models; funders who want to see their return of investment, as research and technology is a key factor in European economic growth. OpenAIRE will provide robust services to support _all_ stakeholders in their daily management workflows, and will explore various technological services, demonstrators and studies that will further advance the uptake of OA.

Networking Activities: The current National Open Access Desk (NOAD) network will be reinforced in a variety of ways, and there will also be a targeted outreach for alignment to similar international initiatives. The NOAD network will **extend its current activities** to promote and support the **Open Research Data Pilot** through research data management issues, the EC **Gold OA pilot** in the countries covered by NOADs and its alignment with local initiatives, and the uptake of **repository services** (guidelines, brokering, analytics). The NOAD structure will be reinforced as a cohesive body, while key selected NOADs will take a more active role in some strategic activities **to allow a cross-fertilisation of regional expertise**. Given major OA developments around the world, OpenAIRE will take a **leading role in aligning similar initiatives,** and where possible, it will propagate its working model and technical services.

Service Activities: OpenAIRE is a _service-oriented infrastructure_ offering production quality operation of an Integrated European Research Information Space of **publications**, their relationships with **projects, research data** and **software**. With a clear focus on H2020, combined with a broad outreach to national funders, it will **consolidate** these services and **enhance** them to allow for a **pan-European Scientific Research Monitoring platform**. It will target 3rd party providers and research communities with SLAs. It will engage researchers, institutions and publishers in a pilot service for the uptake of the Gold OA funding model. It will extend the **helpdesk services** (information, support, training and ticketing) to support _all_ stakeholders over the 33 European Countries towards meeting the demands of the H2020 OA mandates.

Joint Research Activities: Investigating state of the art technologies, OpenAIRE2020 will design and develop a new suite of demonstrators and services and studies that will **advance the interconnection of the scientific publication infrastructure to research data, software, PSI data,** and possibly **learning materials,** while taking into account **legal perspectives**. Advanced technologies for **information extraction, cleaning** and **interlinking** will feed to services for research and funding **impact assessment** to identify European structures/networks, their longevity and quality. The platform will be open for the innovative application of **open forms of scholarly communication.**

The following sections provide detailed descriptions of the activities to be carried out, which are based on the participatory design of the infrastructure, and centred around the National Open Access Desk structure and a service-oriented technical infrastructure.

1.3.1 Providing outreach, support and training

OpenAIRE's unique strength is its well-established network of open access desks (NOADs) based in 33 European countries. In this next phase, all EC member states will be involved plus the associate countries of Norway, Turkey, Iceland, and Serbia. Established in 2009, the network has since developed as an effective open access communication and outreach platform for OpenAIRE. While the background of participants is very diverse, OpenAIRE has facilitated dialogue at both regional and European levels and a common approach on issues such as guidelines for interoperability, establishing OpenAIRE-compliant repositories, and a cross-pollination of regional ideas and expertise to reinforce EC requirements. The work of the network provides a complementary and vital support system for the technical infrastructure and also serves to promote and support the use of the services of OpenAIRE throughout Europe. At a regional level, the network provides appropriate channels of communication to all relevant stakeholders: researchers, repository managers, publishers, funders/decision makers and scientific communities.

NOADs also find themselves in a position to give authoritative guidance on open access queries via local outreach to the recently established National Reference Points (NRPs) on Access to and Preservation of Scientific Information.

With the H2020 OA mandate on scientific publications and the Open Research Data Pilot, OpenAIRE2020 will design and provide a comprehensive outreach, support and training programme that will be delivered mainly by the NOADs to all stakeholders:

- **Researchers:** Given the widened remit of Horizon2020, provide basic information about open access, e.g., what is a pre-print, quality issues in publishing in open access, copy-right issues, APCs.
- **Project managers, project officers, research administrators:** Communicate OA obligations and adherence to the mandate, including use of OpenAIRE infrastructure and services.
- **Funders:** Demonstrate the value of an integrated scholarly communication infrastructure that can be used for impact and research assessment processes.
- **Research libraries:** Train them to create and advance library services to support researchers to implement their research data management in a coherent and interoperable way.
- **Data providers:** Support them in becoming compliant to the needs of a new era scholarly communication infrastructure.
- **3rd party providers:** Advertise and explain the OpenAIRE APIs for the uptake of the OpenAIRE infrastructure (content and services).
- **Publishers:** Understanding of how they can be part of the research data workflow, e.g. support to researchers for publishing and curating data
- **NOADs:** Support and train them to be the OpenAIRE ambassadors so they may approach all stakeholders at the national/local level in the most appropriate way.

The OpenAIRE Helpdesk will be enriched with material (FAQs, guides, best practices) to facilitate easy uptake and comprehension of the H2020 OA mandate on scientific publications for all stakeholders. Special consideration will be given to issues related to the Open Research Data Pilot so as to promote and propagate relevant resources to assist research data management planning, in close collaboration with E-INFRA-1.

Experience so far has shown that it is important to design and establish a training framework to be used for the long run. Working closely with the FOSTER project, training material will be created and trainings conducted (webinars and on-site training sessions) on OA, open data and Open Science adapted to target the Horizon 2020 compliance requirements and the OpenAIRE services.

NOADS' ENHANCED ROLE, TASKS AND ACTIVITIES

The remit of the National Open Access Desks is to a) provide strategic and community outreach to align both national infrastructures to OpenAIRE, and national OA policies to those of the EC, and b) deliver support to a range of stakeholders for uptake of the EC OA mandate. Moving from an OA pilot in FP7 to a universal mandate in H2020, with many national programmes following suit, the NOADs become *the* de facto local outreach and operational support arm of OpenAIRE. Their tasks are intensified, targeted and, where needed, more closely coordinated. Their role in OpenAIRE and their expertise in the OA domain positions them as key players in national and local environments, often with increased leverage in policy decision making.

Furthermore, the start of the Open Research Data Pilot will come at a time of heightened awareness of research data management (RDM) among NOADs. OpenAIRE's outreach activities on the topic have contributed to a deeper understanding among NOADs of the need for research data management planning and policies, and what the role the library can play to support RDM. These efforts will now be focused around the H2020 pilot, which will act a catalyst in giving research libraries a more prominent role.

Table 2 gives an overview of NOAD activities and focused tasks designed to accommodate the H2020 and national mandates, the uptake of OpenAIRE infrastructure, as well as the new challenges related to RDM.

NOAD MANAGEMENT, COMMUNICATION AND ACTIVE ENGAGEMENT

The management of the NOAD network will follow the established hierarchical structure, with Univ. Goettingen Library who leads the Open Access scientific aspects in the project having overall coordination, and the four regional coordinators as follows: West - Ghent Library, South - Univ. of Minho, East - eIFL, North – CRIStin. Regional coordinators have a rich understanding of each of their diverse regions. In addition to the four geographic coordinators, a fifth one (DANS) will be covering RDM issues so as to provide horizontal guidance, support and alignment for the institutional/library environment.

Different regional activities will regularly be communicated to the coordinators, who in turn will engage and support NOADs in efforts to link this work to a pan-European infrastructure. Monthly virtual meetings allow communication and oversight of activities and tasks. Tighter management procedures and supervision of the NOADs guarantees the smooth running of tasks and production of outputs. Regular reporting is required from participants and systematic follow up ensures that tasks are carried out on time.

Table 2 - NOADs activities

Activity	Targeted approach
Contact and outreach	*Projects/Researchers:* A vital element of NOADs tasks is to contact project coordinators. Raising awareness of the OA mandate among project managers. Clear communication on adherence to the mandate is crucial to gather publication records into OpenAIRE. *Research Administrators:* Support for projects and understanding of grant requirements often lies with administrative staff who acts as a conduit to project coordinators at the institutional level. NOADs will provide support and promote the OpenAIRE services and best practices (repositories, legal advice, APCs, etc.) towards an effective workflow integration. *Repositories:* The OpenAIRE guidelines are three-fold and NOADs are requested to reach out to a range of data sources, including research information systems (CRISs) and data repositories to promote their uptake.
Helpdesk support	It is expected that the H2020 OA mandate will attract much more attention than the FP7 OA pilot. Regional enquiries intended to provide support for repository guidance and open access/open data enquiries from a range of users, and may come through a variety of channels (the portal ticketing system, f2f questions, mail, Twitter and Facebook). NOADs are expected to respond to all enquiries within 2 working days.
Dissemination	Promote OpenAIRE's services and dissemination materials to relevant stakeholders at relevant regional and national events.
Country portal presence	Maintain information pages about OA and data policies, and mandates and infrastructures in their regions and countries. The relevant pages are also translated into local languages.
Aligning with national policies Collaboration with the National Points of Reference (NPRs)	At a policy level, OpenAIRE is well placed to gather relevant material on regional activities. Each NOAD will have the opportunity (accompanied by proposal funding) to run one or two national workshops focusing on national OA policies and the uptake of the EC mandate. Such national workshops will be coordinated and aligned with efforts in the European policy area with the PASTEUR4OA project, which focuses on the coordination of NRPs at a higher level. This is in addition to the regular, already-established, contact of NOADs with NPRs, that aims to leverage alignment at policy and infrastructural level.
Aligning with national infrastructure	In case of advanced national infrastructures (e.g., UK, Netherlands, Portugal, Spain) NOADs are asked to play an intermediary role in the technical alignment of national/local infrastructures with OpenAIRE.
Supporting research data management	Contact data repositories: NOADs should have a good awareness of data activities in their country. OpenAIRE will work to identify links from publications to underlying data and will use the NOAD network to contact Open Research Data Pilot coordinators to identify where data is being deposited, and where the links to publications might lie. Support for the Open Research Data Pilot: It is expected that researchers and project coordinators will contact OpenAIRE to request assistance on how to comply with the requirements of/opportunities in the Open Research Data Pilot. NOADs will have at their fingertips a set of appropriate resources such as research data management templates and a list of appropriate data repositories into which to upload. This task will be in close alignment with EINFRA-1.
Integrating national funding streams	The OpenAIRE internal CRIS model allows for the integration of other funding schemes and their outputs. NOADs will work with key national funders to gather project codes and funding stream information to incorporate into the OpenAIRE infrastructure.
Promoting the FP7 Gold open access pilot	This task will complement the OpenAIRE Gold Open Access pilot (FP7 APCs). NOADs will promote the funds in their regions and provide feedback on the studies. Knowledge and expertise on how to administer open access publication charges is under-developed in Europe, and benefit will accrue by bringing greater visibility to this issue via the project communication and related OpenAIRE workshops.

The whole reporting process is made *regular* and *transparent*, the networking coordinators share meeting notes and add follow up actions to the *project wiki*. For this continuous assessment of activities and performance, NOADs are asked to complete and keep current the following documents:

NOAD Assessment Methodology

Action plans	These are authored yearly to give an overview of how NOADs plan to contact research coordinators and project managers; researchers involved in EC projects; data providers (repositories and journal editors and publishers); research administrators (Rectors should be of priority); research funders (including relevant national policy makers).
Activity reports linked to performance indicators	These are updated monthly and list progress within the action plans (e.g., how many repositories contacted in a given month, f2f meetings, workshops organized or attended). The results will be linked to the overall project performance indicators.
Helpdesk monitoring	The Helpdesk activity (i.e., update of pages in the portal, ticketing response, newsletter items, social network activity) will be monitored so as to generate reports that will indicate the level of a NOAD's engagement.
Outreach to National Points of Reference	This stimulates reminders that NOADs should keep aware of activities of the NPRs and other national key stakeholders.

The experience gained in the past years has shown that the executive team needs to establish stronger communication channels *towards* the NOADs better to communicate key overall strategies, high level discussions with the EC, reports concerning international dialogue and outreach, and the various technical services. To this end, an internal bimonthly report will be published by the management team in the form of a blog, allowing for comments and discussions.

To facilitate a more active engagement, key NOAD-organizations will participate in a series of technical tasks which will serve to deliver them a more central role in the project and will bring further expertise to particular tasks. The thematic areas are as follows: it is envisaged that other country representatives will follow suit.

Task	Type	Participating NOADs
Repository Broker WP9.4	Technical	Jisc will liaise to its Repository Junction Broker project. COUPERIN will liaise with two main repositories: HAL and IFREMER.
OpenAIRE Usage Analytics WP8.4	Technical	Jisc will liaise to its IRUS project. UMINHO will liaise with repository platforms and align with its usage stats. COUPERIN will liaise with two main repositories: HAL and IFREMER.
Links to funders WP4.4 and WP8.1	Technical	University of Konstanz (UKON) will be the liaison point for the DFG funding programmes. UMINHO will be the liaison point for the FTC national funder. DANS will influence similar processes in the NARCIS portal and will liaise with NWO. EKT/NBRF will bring in CRIS's through its involvement in the EuroCRIS board.
Research Data Management WP4.3	Support	TU Delft university will bring valuable expertise on RDM from the SIM4RDM project. Jisc will liaise with the DCC RDM work and bring valuable expertise from the SIM4RDM project.

WORKSHOP PROGRAMME

Five public multi-stakeholder workshops will focus on disseminating and examining topics and research outcomes from the project. Topics are as follows:

Examining alternative models to support open science	Data Publication methods
Measuring the impact of Open Science	Legal issues in the context of the Open Research Data Pilot
Text and data mining in scientific publications	

Each of the Regional Coordinators will manage the workshops, as well as Athena Research and Innovation Center (ARC), and they will be held in each region on a six-monthly basis throughout the project. Specific NOADs will be involved in the local organization (depending on where the workshop is held), and will be encouraged to invite their key regional stakeholders in order to give maximum visibility to OpenAIRE. Dissemination of the video recordings and a short report, via extensive channels, will give maximum impact.

1.3.2 *Providing a service-oriented technical platform*

Today the OpenAIRE infrastructure offers 24x7 production-ready services to a number of stakeholders, namely data source administrators (e.g., repository managers), scientists, project coordinators, funding agencies, and third-party consuming services:

– Data source administrators register their data sources with the infrastructure to make their content available. As a consequence they benefit from metadata validation services and increased visibility due to the provision of content to the infrastructure (metadata collected are equipped with complete provenance information);

– Scientists access the OpenAIRE portal and use search and browse facilities to discover research outcomes and the related Open Access versions of outputs. They use Zenodo for dataset and publication deposition, to comply with EC Open Access mandates where they lack a repository of reference;

– Scientists, project coordinators and funding agencies can access the portal to claim relationships between projects and publications or datasets or to benefit from the research impact measures calculated by OpenAIRE, so that they can evaluate the return of their investments.

The goal of the OpenAIRE services is to enhance the way researchers conduct research, by disseminating, advocating, and rewarding those embracing an Open Access and Open Science culture. This is done by facilitating access to Open Access content and by promoting modern scholarly communication principles, where publications and research data become equally important and interconnected research outputs. To achieve these objectives, infrastructure administrators operate infrastructure services at different levels:

– At content level, data curators manage workflows for the curation (harmonization and cleansing), de-duplication, and enrichment by inference (mining algorithms) of metadata collected from thousands of data sources (currently around 500) in a sustainable way. Such metadata populate the OpenAIRE Information Space interlinking information about publications, datasets, persons, projects, organizations, and data sources from Europe and beyond. Relationships between such entities (e.g., projects-publications, publications-datasets) can be collected from data sources, but are mainly inferred by OpenAIRE mining services, processing metadata and (when available) related files. The Information Space is accessible to humans via the OpenAIRE portal and to services via standard access APIs.

– At system administration level, infrastructure operators define, refine, and monitor the operation of data processing workflows, to make sure the Information Space is maintained without errors. Services are deployed in professional data centres (ICM and CERN), where dedicated system administrators are in charge for standard software maintenance/refinement/update activities while ensuring availability and robustness of. Service software follows a rigorous software life cycle and is integrated in the production infrastructure after strict quality and integration tests operated within dedicated development infrastructures.

OpenAIRE2020 Service Activities will continue these actions and will further improve infrastructure capabilities by integrating new services and inputs resulting from Research Activities that will enhance the way the Information Space is enriched, quality-certified, and accessed by humans and third-party services. In particular, OpenAIRE2020 Research Activities will focus its efforts on the following areas:

INTENSIFYING QUALITY OF THE OPENAIRE CONTENT AND SERVICES

Quality of the Information Space is a key factor in order to deliver credible research monitoring and impact measures. In OpenAIRE2020 new services will be delivered to monitor over time the quality of the Information Space:

– Workflows for the continuous validation of publication and dataset repositories for compatibility with the OpenAIRE guidelines. The quality rating of a repository will be highlighted to reward repositories with high-quality metadata.

– Continuous monitoring of data flows and dynamics, to make sure the Information Space keeps its entity collections size, metadata value ranges, and entity relationships under expected (data curator-defined) thresholds of quality.

EXPANDING THE OPENAIRE INFORMATION SPACE

The data model and back-end services will be extended to integrate additional research-related objects. This will be followed by the definition of new workflows, capable of importing, cleaning, and aggregating metadata from new data sources and of interlinking to objects to other infrastructures. Targeted activities will include the integration of:

– software entities, as valuable output from research and experimentations, interlinked with publications and datasets;

– projects from National funding schemes, in order to provide an ERA-wide cross reference;

– "research initiative" entities, in order to provide tools for their impact assessment (e.g., EGI, FET);

– publisher licenses to support the Gold Open Access pilot (e.g., ROMEO);

– alignment and inclusion of author persistent identifiers (e.g., ORCID, GoogleScholarID);

– data management plans, in order to interlink plans with projects and datasets;
– Linked Open Data cloud and export (links to PSI objects such as datasets for the SSH) and import (DBPedia and SlideWiki to annotate and interlink to OpenAIRE objects);
– enable end-users or machinery directly to enrich Information Space content via an Open Annotation Service
– usage data statistics collected from repositories, in order to provide aggregated views of publication metrics.

<u>ENABLING DATA EXCHANGE BETWEEN REPOSITORIES</u>

Experience gained in OpenAIRE has confirmed that data and publication repositories will benefit from data cleaning and completeness by exchanging metadata. For example, a repository may host Open Access versions of publications. Here, other repositories may be interested to keep the links to such files. Point-to-point data exchange is not affordable for repositories, but the OpenAIRE infrastructure can play the role of mediator (hub) and implement a sustainable approach. OpenAIRE2020 will devise new infrastructural services serving the need of data sources such as publication repositories and dataset repositories actively to exchange metadata information between them or to collect information, when available, from publishers. The Open Access Publications Broker Service allows repositories to subscribe to and be notified of any publication bibliographic metadata that may be pertinent to a repository, thus including publications collected in OpenAIRE from journals, publishers, CRIS systems, or deposited by end-users.

In addition, the Data-Literature Linking pilot will deliver a prototype service facilitating resolution of links between datasets and publications. It will gather such relationships from several parties, prominently data centres and publishers, and offer researchers and repositories user interfaces and open APIs to resolve identifiers to their linked entities.

<u>EXTRACTING INFORMATION AND NEW KNOWLEDGE</u>

OpenAIRE2020 will deploy text mining services to produce the extra knowledge needed in order to facilitate a *clean, interlinked* scholarly communication space. It will expand the existing services and will add new ones for extracting advanced information from scientific publications or from the metadata relating to datasets. In particular, the services will:

– extract project information related to H2020 and all other European funders; pilot the service on the international regional repository networks to Latin and North America funders.
– extract author-organization affiliations, key elements towards effective research information analysis;
– identify data citations in a variety of disciplines/types to feed the Data-Literature Linking pilot service;
– extract publication citations and apply sentiment analysis using the CiTO ontology for the next generation of metrics;
– extract alternative identifiers from publications (e.g., PMCIDs) and feed the Repository Broker Service;
– extract software references/citations (working with the ACM corpus)
– apply cross-language techniques to see how regional research fits into the overall European picture.

Moreover, OpenAIRE2020 will strengthen its efforts on classification and visualization modules. Supervised techniques trained on a wide range of categorizations, and unsupervised models (probabilistic topic modelling) will be applied to large datasets of publications and datasets (metadata), taking into consideration spatiotemporal processes for trend analysis over the years, or among different countries.

<u>MONITORING AND REPORTING SCIENTIFIC OUTPUTS</u>

Apart from an Open Access scholarly communication infrastructure, OpenAIRE has an equally important facet: it serves as an EC research information and monitoring platform, with the capability to cover the whole European Research Area. Through a variety of processes (harvesting, mining, claiming on the portal, and subsequent de-duplication, cleaning and classifying) it gathers scientific outputs and links to funding, people, repositories, and institutions. Through the additional knowledge extraction mechanisms and the proposed enhanced data quality processes, the OpenAIRE2020 statistics and reporting service will be extended to integrate all new relationships and provide aggregate, real-time reports in tabular or graphical forms. Moreover the statistics service will adhere to the needs of research communities using the infrastructure and will generate custom-tailored reports for them.

As funding information is an integral part of global research and scholarly communication, a pan-European OA research infrastructure benefits when research outcomes are linked to all European funders. OpenAIRE2020 moves in this direction through a targeted approach, i.e., pilots with NOW, DFG and FCT through the involvement of DANS, the Univ. of Konstanz (the German NOAD) and the Univ. of Minho respectively. Results will further determine the course of activities.

<u>MEASURING AND ASSESSING (OA) IMPACT</u>

Measuring and assessing impact is an important yet challenging task. OpenAIRE2020 will dedicate research activities aimed at identifying effective measures and indicators for evaluating Open Access impact and scientific outcome impact:

- It will carry out a study that will define impact indicators for OpenAIRE stakeholders (providers, institutions, funders, etc.) and investigate indicators for second level impact that link Open Access to possible socio-economic growth (patents, EU stats, etc.). Such indicators will be calculated and made accessible via the portal to all OpenAIRE stakeholders and in the form of graphical reports aggregated by any of the OpenAIRE entities, e.g., author, organization, data source, project, funding agency, publication, dataset.
- It will develop the OpenAIRE analytics service, similar to the UK IRUS project, to process and aggregate usage statistics, a step towards the establishment of article level metrics.
- It will offer Research Impact Services to all research initiatives in need of calculating their OA scientific impact. This includes services to allow claiming on the portal, mining to extract the related information and UIs to provide an integrated look and feel to the community tools.
- It will map and analyse the interlinked information space to extract knowledge of how OA and scholarly communication represents structuring effects on specific research areas. It will do this across Europe in geographic areas, in selected disciplines and over time. Interactive, visualization mechanisms (forced graphs) will be provided as web services to be integrated in the OpenAIRE or other portals.

PROMOTING CONTENT AND SERVICE PROVISION TO 3RD PARTY SERVICES

OpenAIRE acts as a mediator (hub) among data sources willing to contribute and share their content and a number of stakeholders, i.e., humans and 3rd services, willing to consume such content. OpenAIRE2020 will use two dedicated tasks actively to engage 3rd party providers and young innovators and promote the uptake of its infrastructure. OpenAIRE will:

- Offer technological and legal support through well-defined and described APIs and SLAs. Specific activities include the establishment of legal frameworks for the provision of advanced services to all stakeholders involved (publishers, repositories, data archives, etc.) to enable *content and service provision* based on metadata and file processing (e.g., mining, de-duplication, classifying, clustering).
- Issue competitions and/or hackathons, on specific intervals throughout the life-time of the project (a lump sum of 80K Euros is specifically set aside for this purpose) to create services and applications based on the OpenAIRE infrastructure, covering a wide range of aspects such as linking OpenAIRE content to researcher reference tools, researcher social networks, novel publishing platforms (e.g., open review publishing), mobile apps, etc.

SUPPORTING THE H2020 OPEN RESEARCH DATA PILOT

The OpenAIRE2020 data acquisition policy for data cataloguing will include data repositories and publishers that support the H2020 Open Research Data Pilot. Apart from support and training for RDM best practices at the NOAD and institutional level, OpenAIRE2020 will support the H2020 Open Research Data Pilot through a series of activities:

Zenodo will deliver data repository services to support researchers without an appropriate community data repository to share and preserve any data from EU-funded programmes. Zenodo functionality will be extended to support the broad range of data publishing initiatives in OpenAIRE2020 making it an appropriate testbed for communities to try out concepts like data linking, data citation, data anonymiziation, and the closely related services for software description and preservation. Finally, Zenodo will establish connections with other data repositories for data export and exchange and will be extended to align with emerging norms for uniquely identifying researchers, funders and other relevant entities.

Data Anonymization Services that will allow scientists to disclose and publish their research data by properly anonymizing "sensitive" information. These will be accomplished with state of the art techniques for microdata anonymization, together with a safety mechanism to detect multiple publications of the same dataset to prevent publishers from sharing the dataset using inconsistent privacy guarantees. This technical service will be accompanied by a **legal study** that will analyse the legal issues involved in the different forms of protection of sensitive data (e.g., data protection/privacy law/confidentiality) and promote possible recommendations to H2020 grantees.

1.3.3 *Piloting the Gold Open Access APCs for post grant publications in FP7*

With encouragement of several research funders in the last few year attitudes towards the concept of open access have reached a turning point, with many publishers seeming to embrace open access as an emerging market with a high potential for further growth. Björk/Solomon estimate the average price of Article Processing Charges (APC)[1] for established open access journals at 1,418 USD (ca. 1,020 EUR) and for hybrid journals at 2,727 USD (ca. 1,980 EUR).

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[1] http://www.fwf.ac.at/de/public_relations/oai/pdf/Dev_Effective_Market_OA_Article_Processing_Charges.pdf

Driven by the growth in OA policies and provision of co-funding for OA publishing from funders, several research institutions in Europe have moved towards the creation of institutional publication funds, complemented by the definition of workflows for processing APCs, considering them as a standard and growing element of their acquisition budgets.

Several concerns have been raised in relation to Gold OA publishing, in particular in relation to the financial risks for universities associated with the hybrid model (Verhagen 2013, Solomon/Björk 2014).[1] Moreover, OA publishing for books is rarely addressed in funder requirements or publication funds. In parallel, doubt has been cast upon the quality of open access publishing, and in particular the fee-based business models of open access journals[2].

The European Commission has proposed a **Gold Open Access Pilot** aimed at funding a limited amount of post-grant publications arising from FP7 projects. Within the context of OpenAIRE2020, this area will be targeted as follows:

– **Eligible publications** for Gold open access publication funds are post-grant publications arising from FP7 projects, published up to two years after the project has ended. Up to three peer-reviewed research articles per project may be funded. Other types of peer-reviewed publications such as books will also be considered.

– Additional **criteria for eligibility** will be defined and discussed with stakeholder representatives (institutions, research funders, publishers, etc.), taking into account current market analysis as outlined above and experiences from other initiatives addressing gold open access publishing (SOAP project, SCOAP3 initiative etc.). In particular, a maximum amount to be paid per open access publication will be set based on available market analysis (Björk/Solomon 2014, Outsell 2014, etc.) and experiences in institutions across Europe. Based on the costs reported by Björk/Solomon the maximum amount for reimbursement of APCs should not exceed 2,200 EUR per journal article. Similarly, for monographs a price cap will be explored based on available evidence, with a potential maximum amount of 6,000 EUR per publication (such as the studies in the context of the OAPEN projects).[3] The Pilot will provide clear **guidance and support for researchers and project managers** on what publications are eligible and how to get reimbursed through the fund administered by OpenAIRE2020 on behalf of the European Commission.

– Also provided will be clear **guidance and support for publishers** on how to assist researchers to fulfill the eligibility criteria (provision of adequate licenses, delivery of metadata and articles to an OpenAIRE-compliant repository through adequate formats, delivery routes and time-frames).

– The Pilot will **monitor and evaluate** publishers' compliance with the guidelines and the uptake of open access for FP7-projects, and will collect feedback from authors regarding the process and the quality of service.

The main goals of the Gold open access pilot are to:

– Define **standards** for the **processing** of APCs, the modes of publication (licensing, quality of service) and the **delivery** of metadata and content into open access infrastructures linked to OpenAIRE.

– Pilot bulk processing of APCs and develop methods to achieve synergies with national and institutional funding schemes for Gold OA publishing. Clear indication of author affiliations through publishers will be requested.

– **Pilot automatic transfer of metadata and articles** from publishers to the OpenAIRE infrastructure (guidelines and experiences of the PEER project will be taken into account).

– **Monitor and the Gold OA uptake** in terms of granular statistics (relation to FP7 projects, research areas, etc.)

– Summarize additional needs expressed by authors and other stakeholders (through stakeholder outreach and the OpenAIRE helpdesk, stakeholder workshop).

Experiences and possible modifications at various stages of the pilot will be discussed with stakeholders and summarized in a final Gold OA Pilot Roadmap.

1.3.4 Positioning OpenAIRE in the international context

Within Europe's wide repository landscape – diverse in its policies, technical infrastructures, legal frameworks, OA and culture – there is evidence that participation in OpenAIRE over the years has facilitated alignment at national level and made a contribution to technical interoperability. In addition, via significant investments in OA infrastructure such as OpenAIRE, Europe has developed standards, practices and services that are of interest to other regions around the world. For example, Argentina has already adopted the OpenAIRE guidelines and is using the D-NET software as the national aggregator. In turn, OpenAIRE is interested in identifying practices developed elsewhere that may be usefully adopted in the European context, such as those being developed through the SHARE project in the US. By working in close

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[1] N. Verhagen: Hybrid OA – a way to go?, Insights 26(1), March 2013
[2] https://www.sciencemag.org/content/342/6154/60.summary
[3] http://www.oapen.nl/images/attachments/article/58/OAPEN-NL-final-report.pdf

collaboration with the Confederation of Open Access Repositories (COAR), OpenAIRE will actively engage with other regions –Australia, Canada, China, Latin America and USA – to adopt common approaches where appropriate.

OpenAIRE2020 will bring repository initiative representatives into a dialogue under an independent and global organization (COAR), so as to form a common strategic vision and develop shared strategies. In practical terms it aims at accelerating current activities in the area of interoperability by promoting alignment, and facilitating the exchange of good practices and the adoption of shared indicators, services and technologies across regional networks. COAR will organize two international alignment workshops at M7 and M29 to continue the discussions started in Rome in March 2014[1]. Concerning **technology transfer**, the OpenAIRE technical partners (CNR, ARC) will work closely with La Referencia to expand the adoption of OpenAIRE guidelines in Latin America in order to demonstrate the feasibility of repository interoperability. They will adapt the OpenAIRE validator and assess the feasibility of implementing a LaReferencia instance of the D-NET aggregator in Europe that will demonstrate the value of the adoption of guidelines in Latin America.

Additionally, OpenAIRE2020 partners will participate in a number of groups in the international Research Data Alliance forum: Bibliometrics, Publishing Workflows, Publishing Services, Publishing Cost, Long tail or science and Metadata registries. This ensures that RDA's aim of and interoperable collaborative action for the sharing of data is embedded in OpenAIRE's strategy, while it also raises the visibility of OpenAIRE's developments in key research areas (data guidelines, data registries, linking data to publications, training for librarians).

1.3.5   Establishing OpenAIRE as a legal entity

OpenAIRE will be established as a legal entity by M12. It will have its own rights, obligations, assets and governance structure. The process of its establishment and its future coordination will be the result of synergies between the three levels of project coordinators (UoA, CNR and UGOE), assisted by the four regional coordinators (UMINHO, UGENT, EIFL, CRIStin) and the technical partners who are key members of the consortium from its onset and are vital in running the infrastructure services (ICM, UNIBI and CERN). The legal entity will be guided by its **'Statutes' document**. This will set out the governance model, the objectives, membership, reporting procedures and policies.

Establishment: The legal entity will be established by M12. Decisions on how to establish it will depend heavily on the Feasibility Study and Business Plan from OpenAIREplus, which is expected to be delivered in fall 2014. All decisions taken during this process will feed back to the PSC. In order to achieve this, the following roadmap will be implemented:

Month	Goal	Action
M1	Research/landscape scoping and Coordination across other infrastructures	Research existing models. Initial Contact made with other similar entities e.g. DANTE, GEANT, EGI's, ERICs (Dariah EU, CLARIN), Europeana, PRACE, ARROW. MoU's established, understanding of where connections with other infrastructures lie. Gather a 'challenges and risks involved' document: (e.g., uptake of OpenAIRE repository compliance, OpenAIRE reliance on data sources).
M6	Decision on location of entity	Investigation as to suitability of the legal seat. Relation to the law of the country taken into consideration.
M7	Hiring of legal advice (subcontractor)	UoA to subcontract based on tender documentation
M7	Set up of Governance structure	Re-assessment of current structure, selection of optimum governance model, executive board, responsibilities of members, establishing guiding principles and decision-making powers.
M8	Membership	Who are the members (countries, institutions, organisations) in the entity? What are their rights? How do they contribute? Fees? In kind?
M9	Goals and strategy of legal entity	'Value proposition' compiled.
M10	Published strategy document: legal statutes	Outline aims, duration, activities, benefits and roles of the OpenAIRE entity.
M10	Decision on financial model	Membership model vs. shareholder model. Cost structure outlined: fixed costs and on-demand cost.
M12	Establishment of legal entity	

Managing the legal entity: The legal entity will interact with the project consortium to establish its operations, so that in subsequent stages of the overall effort it can take over some of the key responsibilities.

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[1] https://www.coar-repositories.org/news-media/open-infrastructures-for-open-science-report-about-rome-workshop-10-12-april-2012

1.4 Ambition

OpenAIRE2020's objective is to be an infrastructural hub for information, for people, for technologies. Based on the project goals, various challenges have been identified, where OpenAIRE2020 can bring significant progress beyond the state-of-the-art. The next sections provide more in-depth analysis of the state-of-the-art and proposed progress.

1.4.1 Open Access implementation

The implementation of OA around the world is very heterogeneous both at policy and infrastructural level. There has been a recent swell in mandates: in 2013 alone, 33 funder mandates were introduced[1]. The mandates that have been announced in the last two years differ. Most mandates require repository archiving ("green" OA), whereas some countries have taken (UK) or announced (Netherlands) strong steps towards "Gold" open access. The policies of the EC and announcement of the Horizon 2020 open access mandate have **reinforced national moves** to OA, and mobilized local action. A number of national funders have implemented policies, for example Spain's research and development projects funded by the Ministry of Economy and Competitiveness now **mirror the EC's open access mandate**. The new Spanish Law on Science, Technology and Innovation encourages deposit of all output in repositories and FECYT is working closely with the government to implement and roll out the mandate. Portugal's largest funder, the Portuguese Science and Technology Foundation, has also released its OA policy based on the EC model. Strength of mandates also differs, and follow-up is a crucial step in successful policies and mandates. Some institutions are more stringent than others, for example the University of Liege has a **strictly monitored mandate**. In some countries, such as Germany there may be strong advocacy and networking elements, however little on reinforcing or monitoring policies and mandates yet exists.

A quick glance at the European landscape shows that at a technical level open access implementation is diverse and heterogeneous. There are strong networks **tightly coordinated** at a national level: in Portugal RCAAP network of repositories, provides a central aggregator, and offers a **centralized infrastructure** for repository hosting. The main Portuguese funder has designated RCAAP as the locus for deposition of funded research outputs. Netherlands and Spain also have a very **diverse set of repositories** but all centrally gathered via an **aggregator**. In France a centralized approach works and most national repositories are hosted by HAL. Nordic countries follow a model of strong repositories and national CRIS integration (e.g., CRIStin in Norway). There are countries with numerous well-established repositories such as Belgium, Germany and the UK. Additionally, involvement in larger infrastructures, such as OpenAIRE, has led to a consolidation of technical efforts at national level. In Croatia, national repositories are now interoperable at a national level, and in Italy the **SC39 mandate has incentivized** the establishment of institutional repositories.

Buy in to policy at institutional level is vital to the success of open access. Dozens of new repositories have been established in Europe and worldwide in recent years (2600 in April 2014). This is clear evidence of institutions wishing to **control and gather their research output**. Most of these repositories were established and managed by libraries. Some research libraries have developed funds for Gold open access, and practical know-how as to administering these funds on a larger scale is growing. Parallel to scholarly literature, the library is recognizing its role in research data management, equipping itself with the relevant skills to support researchers at varying degrees throughout the data lifecycle. Furthermore, **research institutions** are taking it upon themselves to **reassume control of their research output** (e.g. The University College London Press[2]). Other research-led initiatives are providing services and small companies are repurposing repository content and providing innovative services on top of repositories. New methods of peer review and efforts to collaborate are emerging (e.g. Peerage of Science[3]).

At the **researcher level,** there is mixed awareness and concerns among researchers: the uptake of, awareness of and attitudes towards OA differ among disciplines, the quality of peer review, the performance of OA journals, and copyright issues[4]. This will have an effect in H2020 where all thematic areas are included and awareness needs to be raised.

OpenAIRE2020 contribution

Open Access is now ripe for practical implementation and action. Many policy initiatives at national levels are aligning to the EC, and a stronger alignment is expected in Horizon 2020. OpenAIRE will complement the regional level work of PASTEUR4OA, by empowering NOADs to carry out national level events to raise awareness of the EC OA mandate and provide national outreach to provide information to researchers and EC project managers. Additionally, support materials

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[1] www.roarmap.eprints.org
[2] http://www.timeshighereducation.co.uk/news/ucl-presses-ahead-with-open-access/2009926.article
[3] http://www.peerageofscience.org/
[4] http://www.tandf.co.uk/journals/explore/open-access-survey-supp3.pdf

produced in the FOSTER will be re-defined specifically to support the OA mandate. Bringing more funders into the equation, who will use OpenAIRE services to monitor research output will serve to strengthen top down policies for OA and, crucially, their follow up. Ultimately, having a strong infrastructure in place will support and further policy development. Proximity (via the participation of various partners) and close collaboration with FOSTER and PASTEUR4OA projects, positions OpenAIRE2020 as the natural place to follow-up and provide sustainability to both initiatives, on their completion, regarding training/advocacy and policy coordination and alignment. Finally, COAR's involvement will bring into alignment the interoperability issues among national and international networks.

1.4.2   Monitoring OA Scientific Outcome

Monitoring scientific outcomes is known to be a challenging but crucial activity for any stakeholders involved in the research lifecycle. At different levels, funding agencies, organizations, research groups, or researchers all need to come up with credible and quantifiable indicators in order to assess the quality of their results. The real challenge is to identify such indicators and, most importantly, the mathematical models that reliably deliver their trustful evaluations over time. Such models are based on numerical representations of real-world behaviours, opinions, trends, etc. which are often hard if not impossible to extrapolate in an absolute and objective sense – e.g. providing a measure of "the impact of funding of an FP7 project in society". In the last decades, scholarly communication strongly relied on bibliometrics – that is a set of methods quantitatively to analyze academic literature, such as citation analysis and content analysis. Citation indices (e.g. Institute for Scientific Information's Web of Science) build a graph of citations among publications and therefore allow the calculation of so-called "impact factors", which provide a measure of the quality of a journal or of a researcher's work, and many times is (wrongly used) on individual evaluation, e.g. the tenure review process. Using similar indicators (e.g. based on a researcher's affiliation to an organization, project, research group), research groups, communities, organizations, and funding agencies can measure the impact of their activities. A great deal of literature has been produced in this ambit, debating and proposing solutions to the problem of evaluation of individual researchers, research institutions, project, funding programs. A growing consensus is emerging that the solution research evaluation and assessment rely on the use of direct and individual metrics (like article level metrics) instead of indirect/aggregated metrics (like the impact factor).

OpenAIRE2020 contribution

In this respect, OpenAIRE2020 is willing to intercept the new requirements of modern data-intensive science to share and re-use research datasets and experiments. Datasets are imposing themselves as first citizens in the research lifecycle and, as a consequence, they should become a concrete outcome and be part of the research evaluation process. However, this vision is still not even imaginable in many disciplines, due to several cultural barriers. On the one hand, scientists who create datasets receive no recognized scientific reward for this effort and therefore tend to conceal their effort-consuming and important results so as not to favour other scientists. On the other hand, scientists are not provided with discipline or cross-discipline tools and examples of best practice that would facilitate them embracing this vision. Examples are: the availability of standards for data citation (e.g. DataCite, Dataverse), several purposes of data citation (e.g. reference, re-use), the availability of navigable links between datasets and relative publications, and the creation of dataset citation indices. OpenAIRE2020 aims at investigating such avenues in order to produce studies on the current state-of-the-art, propose data citation standards, and deliver service prototypes for the construction of data citation indices and dataset-publication interlinking. EBI, PANGEA, and DANS are major European data centers with strong interests in the field of data citation and interlinking, and will cooperate in the ambit of OpenAIRE2020 to deliver such results.

1.4.3   New scholarly communication methodologies

Scholarly communication and publishing is changing rapidly. While OA to research literature is a core part of scholarly networked environments, novel challenges arise from Open Science as illustrated in many innovative solutions. **Collaborative writing of research papers** in large teams and over long distances demands efficient organization, tracking and sharing of files. Platforms like Authorea and SciGit provide authors with easy-to-use workflows, version control, citation and comment functionalities. Meanwhile, data intensive science requires adequate tools to document methods, data and associated material complementing the scientific story. Electronic Lab Notebooks (ELN) offers many benefits in this respect, e.g. incorporation of instrumental data, and support for collaboration amongst users. They gain added value when linked to repositories and knowledge infrastructures. For instance the IPython Notebook, a web-based interactive computational environment, combines code execution, text, mathematics, plots and rich media. Other integrated services allow easier linking of experimental results with scientific literature, e.g., LabFolder integrated with

Mendeley[1]. **Open peer-review** aims for an open and transparent scientific collaboration, accelerating the publishing process and fostering discourse in the research community. For example, the LIBerating REsearch project (LIBRE) (www.liberatingresearch.org) promotes author-guided peer review as a complement to that of journal editors. Moreover this concept, if adopted in OA repositories, could be considered as an evaluation method for self-archived publications.

OpenAIRE2020 contribution

A key aspect of OpenAIRE2020 is to interconnect tools and services optimized for collaborative research with its scholarly knowledge infrastructure. OpenAIRE provides for discovery interfaces of related contextualized research outputs (publications, research data, projects, author profiles) and for export facilities for bibliographic references and access to full text. These services need to connect to innovative third-party products and services, thus enhancing the research experience. OpenAIRE2020 will investigate new publishing models and methods by means of a workshop, and in a second stage engage innovators and 3rd party providers via two tenders for pilots in WP9 and WP7: to build services on the OpenAIRE infrastructure and for open review platforms and methodologies.

1.4.4 Measuring OA scientific impact

Open Access has yielded new ways of crediting research and identifying how reputation is formed. In recent years, views and downloads, linkage, bookmarks or discussion activity in social media have become an important source of alternative impact assessment. Compared to conventional journal article citations, these *altmetrics* cover all research outputs including grey literature, reports, data and software publications, and have been promoted and adopted by publishers and repositories alike. With its Article Level Metrics, the publisher Public Library of Science (PLOS) displays a suite of indicators including citations, information on usage and social media activity for every article. Other publishers, among them BioMed Central and Frontiers, have followed suit. Thematic and institutional repositories have started to measure research impact through **usage statistics**: Knowledge Exchange, national initiatives and OpenAIRE have worked on exchange standards, and the UK PIRUS Code of Practice for recording and reporting usage ensures comparability of usage among publishers, aggregators and repositories. The biblio- and webometrics research community has begun to discuss strengths and weaknesses of traditional citation analysis in the light of other more recent approaches[2]. OpenAIRE and PLOS have jointly explored alternative science metrics in EC grant-supported research publications[3]. In parallel, special attention is also devoted to data publications to shape a culture of data citation[4] and to develop indicators to assess their value and impact similar to those for articles (RDA/WDS Data Publication Bibliometrics Working Group).

OpenAIRE2020 contribution

To develop a sophisticated set of indicators on EC funded research, subject-specific peculiarities as well as those of the Altmetrics-source adopted need to be addressed. For better comparability, the exchange and aggregation of Altmetrics in general and usage statistics in particular needs to be improved on an international level. This includes best practices for gathering data corpora and the dissemination of alternative research measures. OpenAIRE2020 will advance this aspect (i) carry out a study to investigate and describe multidimensional indicators to assess scholarly performance (WP7, SURF/CWTS), (ii) with a coordinated approach, will cooperate with data providers (repositories, CRIS) to collect, aggregate and analyse usage data (WP8), and (iii) participate in the RDA/WDS group.

1.4.5 Identifying software as part of the scientific production

Scientific research now relies heavily on software throughout the project lifecycle, from data capture to data analysis to results presentation. In order to interpret, understand, and ultimately reuse or reproduce scientific results, it is now essential to have access to the software used in each processing step. Unfortunately this is typically not easy in most scientific domains, since the software isn't made public, nor mentioned in the publications. Instead of storing software on local disks, researchers are increasingly using **source control repositories** such as CVS, SVN, Mercurial or Git, especially where software stacks are complex or if they collaborate with remote co-workers. However local repositories are difficult to locate and unreliable to access in the long term, so there is a trend to use global services built on top of these repositories such as GitHub. These software repositories are often preferred since they allow **software discovery**, since you can search and browse across all communities. Taking this further Ohloh (www.ohloh.net) offers exposure and

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[1] https://www.authorea.com, https://scigit.com, http://ipython.org/notebook.html, https://www.labfolder.com, http://www.mendeley.com

[2] Information Standards Quarterly (ISQ) v25, no. 2 on Altmetrics, http://dx.doi.org/10.3789/isqv25no2.2013

[3] Jahn, N., Fenner, M., Schirrwagen, J.: PlosOpenR - Exploring FP7 Funded PLOS Publications. Information Services and Use. 33, p. 93-101 (2013)

[4] Socha, YM (ed.) CODATA-ICSTI Task Group on Data Citation Standards and Practices (2013): Out of cite, out of mind: the current state of practice and technology for the citation of data: Data Science Journal, Vol. 12, http://dx.doi.org/10.2481/dsj.OSOM13-043

discovery of software across multiple repositories, and offers **metrics on the software** allowing to judge the popularity of programming languages and productivity of contributors.

However all these services are tuned to the needs of software developers and not to the research communities need to track which software was used for an analysis, who wrote it and what was its wider impact. To achieve this the software must have identifiers attributed which can be used in a reference, enabling discoverability, must be stored in a place that can be reliably accessed, and documented with a minimum amount of metadata to enable third-parties to have the rights and the necessary information to use the software and establish metircs on it. Individual communities have initiated partial solutions to this need with services such as the Astrophysics Source Code Library. The first steps to support a general solution by connecting GitHub to preservation infrastructures have recently been taken by Zenodo and FigShare.

OpenAIRE2020 contribution

OpenAIRE2020 will contribute in several ways to foster the promotion of software as an essential research artefact, including fostering software citation principles, and extending Zenodo as an example of a preservation store for software. Through Zenodo, we will encourage and facilitate snap-shotting of continuously changing software such that it can be identified, referenced, accessed and preserved in the state corresponding to a particular publication. We will also further promote it as an equal research artefact by capturing corresponding metadata such as funding source and usage metrics, so that the value and impact of this resource can be appreciated alongside the publication and the data itself.

1.4.6   Analyzing academia/scholar networks

Mining Academic Social Networks and related publications has received substantial attention in recent years and related functionality is provided in several specific search engines, services and bibliographic databases. ArnetMiner (www.arnetminer.org) is probably the most advanced platform in the area, designed to index, mine and search academic social networks and related publications. Initially created as a research project in social influence analysis, social network ranking and social network extraction has now been in operation for more than three years and has indexed 1,300,000 researchers and more than three million publications. Arnetminer is commonly used in academia to identify relationships between and draw statistical correlations about research and researchers. The ArnetMiner platform focuses on 1) **extracting researcher profiles automatically from the Web** 2) **integrating publication data into the network from existing** digital libraries 3) modelling the entire academic network and related publications and 4) providing search services for the academic network. It incorporates several S-O-A techniques for knowledge acquisition, semantic integration, topic **modelling, heterogeneous ranking and social influence analysis including: 1) a unified probabil**istic framework for name disambiguation 2) generative probabilistic models for simultaneously modelling topical aspects of papers, authors, and publication venues and 3) network mining techniques based on random walks. Based on the modelling results, it provides several search services such as expert finding, geographic search, reviewer recommendation, association search, course search, academic performance evaluation and topic analysis. Other products in the area are the science specific search engines like Google Scholar, Elsevier's Scirus, Microsoft Academic Search, CiteSeerX, as well as bibliographic databases like Elsevier's Scopus, PubMed and DBLP. Such platforms mainly focus on information extraction tasks related to publications, citations and authors providing basic mining services.

OpenAIRE2020 contribution

OpenAIRE2020 will advance current activity to focus on advanced data extraction, integration and mining techniques to create a comprehensive dynamic map of relations in academia between people (e.g., open citation index, co-authorship network), institutions, publications, funding sources, topics, data sets, software, etc. Dynamic multi modal topics (e.g., authors, organizations and text) will address topic shifts, discover and compare hidden trends and model time-evolving networks, groups and communities. Additionally to publications, authors and citations we will incorporate time, funding and affiliation (whenever possible) information. In this way, will be able to perform multiple comparative analyses evaluating funding impact on research analyzing timeliness and coverage of the performed research (i.e. capturing research trends), as well as structuring the effects of networks (i.e. creation of scientific societies and structures) revealing longer term structures and providing information about their creation and strength over the years.

1.4.7   Bridging to other infrastructures through LOD

Linked Open Data is today providing a well-recognized lingua franca and protocols allowing any web accessible data source to expose and share its content in order to contribute to an interdisciplinary and global cloud of data. Probably, the best achievements in exploiting the LOD graph are to be found when narrowing down to a "controlled" subset of such a cloud, where (a) service developers are partly or fully aware of the structural and semantic nature of the interlinked data sources they intend to process, and (b) participating data sources are aware of the target activity of the final services. Indeed, in such contexts, data navigation and mining techniques can be more confidently applied, and enriching the graph

of data with further relationships can become effectively beneficial also for the original data sources. The adoption of standards such as the Open Annotation Model simplifies the way the graph of data can be enriched by third-party services and be consumed by interested data sources or further services. As such, LOD can be a powerful and low-cost methodology for data sources to allow third-party services to enrich their content in a controlled and standard manner.

OpenAIRE2020 contribution

OpenAIRE2020 will (a) provide services to export the OpenAIRE objects as a LOD graph, (b) facilitate integration with other LOD graphs relative to similar systems and infrastructures, and (c) find patterns to enrich the OpenAIRE information space by exploiting the enrichments inherited by third-party re-use of its LOD graph representation. As a result, OpenAIRE will engage with additional user communities and explore synergies with and the provision of added value to related open content initiatives (e.g. Open Educational Resources, PSI, DBpedia, LOD, W3C SWEO etc.) and open up a window to the Linked Open Data Web.

1.4.8 *Providing anonymization services for sensitive data*

Publishing data related to commercial or scientific activities often pose significant threats to the privacy of the individuals associated with this data. The main issue in privacy protection is to transform such data into a form where the useful information is retained while the privacy of the individuals is protected. Removing direct identifiers, like the name of a person or the Social Security Number is usually insufficient to protect the identity of a person[1]. Other information about an individual (e.g. age, municipality) might also be adequate to identify them. In such a case this information, that indirectly associates a record with an individual, acts as a quasi identifier. Anonymization techniques transform the original data to a form where the quasi identifiers cannot lead an adversary to the real identity of a person or to infer other sensitive information about them. *k*-anonymity[2, 3,4] guarantees that each record in the published data is indistinguishable from other *k*-1 records. A more relaxed version of *k*-anonymity, *k^m*-anonymity, which requires that every combination of m values of a record appears *k* times, is proposed in[5,7]. *l*-diversity considers the danger of associating an individual to some sensitive value, and guarantees that every adversary will not be able to associate an individual to less than *l* "well represented" sensitive values. The most common data transformation in anonymization methods are **generalization**, where the values of the quasi identifiers are replaced by a more generalized representation, e.g. 26 can be replaced by [20-30], **anatomization**, where the quasi identifiers are disassociated from their original records[6,7] and **suppression**, where quasi identifiers that can lead to privacy breaches are suppressed. A different approach to anonymization is expressed by differential privacy, which anonymizes query results by adding noise to them[8] and guarantees that the results of a query posed against a dataset will only differ by a limited quantity independently of whether a certain individual appears in the dataset or not. Data anonymization techniques have only recently attracted the interest of the research community and very few tools exist, with most of them being academic prototypes. ARX (http://arx.deidentifier.org) is an open source anonymization software that provides k-anonymity, l-diversity, t-closeness and d-presence for relational data. sdcMicro is an extension of package R that offer k-anonymity and l-diversity (http://cran.r-project.org/web/packages/sdcMicro/). To the best of our knowledge there is no commercial tool that provides any of the aforementioned guarantees.

OpenAIRE2020 contribution

In the context of OpenAIRE2020, we will implement the most suitable of the state-of-the-art methods, considering not only relational data but even more complex data structures, like set-values and data series, for which there are no tools available. A significant shortcoming in the existing research methods and tools lies in the estimation of the anonymization work's impact on data utility. Since there is no global metric for the information contained in each dataset, guiding the anonymization procedure by a single data utility measure often leads to anonymized data that cannot meet the application needs. To compensate for this problem we will create tools that will allow the use to customize the anonymization procedure and to guide the transformation according to their needs.

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2 Impact

2.1.1 Expected impacts

2.1.2 Expected impacts set out in the work programme

OpenAIRE2020 builds an e-Infrastructure with a **true EU footprint** that aims at promoting **open scholarship** and improving substantially the **availability, efficient discoverability, sharability, and reusability of research publications & data**. In doing so, OpenAIRE addresses several societal and economic challenges, such as digital inclusion and the digital economy, and serves as a platform for innovation growth.

In the following, the expected impacts from the European Commission's Horizon 2020 Work Programme 2014-2015 for European research infrastructures (including e-Infrastructures) are addressed one by one:[1]

> *"The intellectual capital of Europe is available to researchers, business and citizens to generate economic and scientific advances now, and that capital is safely preserved for further exploitation by future generations."*

Research publications and data are essential to societal and economic growth. They serve as the knowledge and information stepping stones for researchers, educators, and industry to achieve new scientific breakthroughs, develop new products and services, and shape the next generation of qualified scientists and entrepreneurs, respectively. The OpenAIRE infrastructure interacts with a wide range of research outcome sources, and thus fills a significant gap in interconnecting scientific results (publication and data), linking them to processes that produced them (scientific software, workflows, services, instruments) and releasing them for **everyone to see, reuse, and reproduce**. Hence, OpenAIRE2020 will have a **major long-term impact on the European scientific community** in diverse ways:

Increased exposure: It allows research results to be discoverable and reusable, regardless of their specific thematic domain. Due to its contextualization mechanisms, interested parties (e.g., researchers, private sector) gain a thorough insight into the underlying research work. Combined, these improve the exposure of research results, enhance their transfer and adoption in other domains, and shorten the time line towards potential commercial uptake.

Cross-domain research and collaboration: It provides several, multi-level opportunities for cross-domain collaboration §and synergies: the aggregation and interlinking of publications across domains increases discoverability well above compartmentalized research management systems, and the availability and reuse of research data leads to de facto cross-domain collaboration and lays the path for increased synergies. Furthermore, OpenAIRE2020 assists in reducing the current fragmentation of national research efforts by introducing policies and regimes for cross-domain research.

Applied research: It makes scientific information resources available to higher-level applications and providers of value-added services as well as to new communities and sections of society. Industry uses it to have unlimited and streamlined access to Europe's scientific output, and to identify and collaborate with cutting-edge research institutions.

Preserved research outcomes: It puts its efforts on the foundations of the repository infrastructure promoting good practices on identification, linking, curation, access and preservation for both publications and data, working towards a sustainable digital future.

> *"Open Access publications resulting from Horizon 2020 funded research are available and easily findable online."*

Researchers, and early-career researchers in particular, are often ever of the mindset that renowned subscription-based journals are still the main way to build up a track record. Funder or institutional OA mandates so far seem to be one way to influence such behaviour and push them to deposit or publish in OA. But, even when researchers "go out of their way" to comply with these mandates, it is important that they do it in such a manner that their scientific outcomes are clearly tagged (funding, subject) and linked (data, software), as disparate information is easily lost and not findable. When done properly, all pieces fall in place and this eventually triggers a virtuous cycle of research practices that is to everyone's benefit.

Throughout the FP7 OA pilot, OpenAIRE has progressively been establishing a service-oriented infrastructure that is considered by many the Open Access infrastructure in Europe. It has been building a brand name that allows it to readily enter into H2020 and provide **trusted, value added services to all stakeholders**: researchers to find how to comply and

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[1] http://cordis.europa.eu/fp7/ict/e-infrastructure/docs/e-infrastruct-wp.pdf

where to deposit, project coordinators how to report, project officers how to monitor a project's scientific outcome progress and OA policy compliance.

OpenAIRE2020 continues to **build human capacities** (OA experts in 33 EU countries) who form the Horizon2020 supporting structures, and have a **multiplication effect on the awareness and implementation of the EC and national OA policies** and, equally importantly, promote the OpenAIRE services. OpenAIRE2020 enhances the **technical capacities** (guidelines, aggregation, brokering, cleaning, interlinking and it putting in context) necessary to **open up and discover H2020 scientific outcomes in an intelligent way**. Furthermore, through this successful model, OpenAIRE2020 establishes a European leadership esteemed by many international initiatives.

> *"Data needed to validate published results is linked to the publications and publicly shared whenever possible."*

The typical paradigm of the research lifecycle is increasingly dependent on the capabilities of researchers to collect, combine, and analyze research results. As researchers are reluctant to open up publications, they are often reluctant to open up or share their data. Except for certain established routines in life sciences, linking data to publications, or the reverse, is not yet a natural activity within researchers' workflows. Additionally, concerns about legal issues and/or ignorance of technological breakthroughs in relation to data privacy are affecting their non-sharing practices.

OpenAIRE2020 facilitates data publishing and links it to publications through a number of services: a data broker to be used for data or publication linking, data citation standardization in publications, and provision of legal and technological frameworks for publishing sensitive data. In doing so, it improves scientific monitoring, **increases the accountability and quality of scientific** results via Open Science principles. It allows **experimenting at review level** and **increases the readiness of published science** (data and publications) whereby publications may end up being dynamic documents that include up-to-date results, ultimately having a direct **impact on scientific reproducibility**. It significantly **reduces barriers to data sharing** and assists researchers and H2020 projects to comply with the Open Research Data Pilot. Moreover, as OpenAIRE2020 **places Research Data Management in the agenda of research libraries**, it opens up opportunities to strengthen their role and responsibility for providing support and services to researchers in storing, accessing and sharing research data.

> *"Accurate science metrics for Horizon 2020 can be produced with almost no effort."*

The European Commission spends billions in funding research and therefore needs to periodically assess the outcomes in order to make evidence based decisions to repurpose the funds or change directions if needed. Due to lack of an integrated Research Information system that links all scientific outcomes to their sources (in this case funding) this process is commissioned to the private sector that analyzes results two years after the end of a funding stream using painstaking methodologies of questionnaires, interviews, etc. Furthermore, due to Europe's diversity and vision of promoting collaboration of research across country borders, analysis needs to move beyond plain quantitative enquiries and address the trends in science, how they are they localized in regards to European member states (and possibly link to local economies), how are structural effects (consortia, collaborations) taking place and how they continue over time.

OpenAIRE2020's vision for a pan-European Research Information platform to monitor OA research outcomes from the EC and other national funders, with its proposed advanced research analytics services address this issue in a very competent and timely manner. Based on its integrated scholarly communication system that provides all scientific outcomes within their research context (i.e., linked to people, funding, software, organizations), and combined with approved OA scientific indicators for scholarly excellence (that move away from traditional Impact Factor to article level metrics, and possibly associated with second level indicators), OpenAIRE has the potential to **deliver, at no additional cost or effort, value added services to research evaluators**: a thorough picture of the research landscape and accompanying services (e.g., interactive visualization tools) so as to make informed recommendations to high level decision makers. As a further consequence, the addition of national funders in the service may conceivably lead to optimization in research funding across Europe.

> *"Most of the European institutional repositories (at least 80%) as well as the principal thematic repositories are part of the same interoperable repository network."*

An interoperable repository network essentially means that there are no borders in the dissemination of knowledge, no obstacles for multi- or inter-disciplinary research. Even when sociological and ontological differences remain for the latter, all science is effectively interconnected and is not behind disciplinary walls for someone to understand. It also means that researchers are free to choose where to publish/deposit, without having to trouble themselves about any particular recommendations issued by various funders or institutions.

Guidelines of how repositories expose their content in an interoperable way have proven an essential tool for repository managers and allow such connectivity to take effect while increasing visibility of the repository content. OpenAIRE has thus been a key player in the fieldover the past 4 years with its "Guidelines for Literature Repositories and OA Journals". As of March 2014, over 420 repositories world-wide are already compatible with OpenAIRE's infrastructure for publications, which as of today covers c. 35-45% of the European repository landscape. OpenAIRE2020 aims to continue this effort and outreach through its extensive network outreach to other types of data providers (data and software repositories, CRIS systems) while still targeting literature repositories and national infrastructures (e.g., UK) to create a **truly pan-European interconnected network of repositories for all types of scientific results**. Combined with its proposed services for information brokering among these repositories OpenAIRE2020 will facilitate an **Open Science conduit**, and with its international outreach efforts, extend this to other regions of the world.

2.1.3 Innovation capacity and new knowledge

Why should data-powered small businesses be interested in research e-Infrastuctures? "…The generation of new value is when our clients request a specific, customised, contextualised, adapted solution for their needs – and this is where our work gets paid. [1]*"*

The technological, social and political environment around us is constantly changing and science, its conduct and communication, needs to adapt to this new era of information technology. We can already witness the changes in scholarly communication in how scientists conduct their business and by how much it has broadened up the area with new players and stakeholders. OpenAIRE is in the center of the knowledge triangle (research, education, innovation) and its main objective is to connect all research components and open up science and its results in an intelligent way. As stated in the UK's Royal Society 2012 "Science as Open Enterprise" report[2], "…*data must be accessible and readily located; they must be intelligible to those who wish to scrutinise them; data must be assessable so that judgments can be made about their reliability and the competence of those who created them; and they must be usable by others…*". As the report continues it pinpoints the current situation at the side of data production rather accurately: "…*what we find today is that a lot of science is unintelligible beyond its own specialist discipline and the evidential data that underpins scientific communications is not consistently made accessible, even to other scientists…*". Moreover, although scientists do routinely exploit the massive data volumes and computing capacity of the digital age, "*their approach is often redolent of the paper age rather than the digital age*". In other words, the rise of "open innovation" reflects the reality that universities and companies can less and less afford to run a closed R&D shop and not only need to open up data, but also to open up and share the ways they produce and process data.

The societal innovation capacity is critically dependent on the effectiveness of the research process. Innovation capacity itself is the basis for sustained societal economic growth. OpenAIRE2020 will provide specific contributions to increasing the effectiveness of research. **The immediate and open access to research materials and results is crucial for feeding 'innovation-hungry' players in research and on the markets.** Thus, it is not only research but also market development that can be fueled, if research materials and results are easily accessible. For this reason, OpenAIRE2020 exploits the openness of materials in order to form a huge information space spanning data archives, data managing services, publication repositories and administrative systems for project data and makes this information space available in an integrated fashion to the widest possible audience. In the general sense of fulfilling the information needs of every citizen and any professional, this is fostering the innovation capacity of possibly all markets.

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[1] Agro-Know SME owner after attending ICRI 2014 - http://blog.agro-know.com/?p=862
[2] June 2012, ISBN: 978-0-85403-962-3

2.1.4 Barriers and obstacles

The following barriers and obstacles to the expected impacts have been identified:

Barrier/obstacle	Estimated extend of effect	Action
Researchers remain reluctant to share data.	Only 5-10% of the projects in the Open Research Data Pilot share (some of) their data.	Highlight good practice examples early on in the project and use them for demonstrating the effects of data sharing.
Researchers' interest in the Gold Open Access Pilot is very limited and the resources available will not be spent.	1 or less publications per FP7 project are published using the fund	Clear publicity for the funds available made early into the project
Compliance of data providers (repositories, data archives, CRIS) remains below the threshold.		Multiplication of NOAD outreach at national level to reach data providers and to promote interoperability
Researchers' misunderstanding about Open Access, e.g. copyright implications	20% of Horizon 2020 projects are unable to adhere to the mandate	Include clear, succinct explanations in support material to clarify issues, especially in disciplines with a low-uptake of OA.
Insufficient quantity of statistics gathered to measure impact	Not all repositories are able provide access to usage files	
Low uptake on linking publications to data services	Few users using manual linking service via the portal	Use the NOAD network to identify repositories where relevant projects deposit data. Use-cases disseminated.

2.2 Measures to maximise impact

2.2.1 Dissemination and exploitation of results

OpenAIRE2020's dissemination strategy is integral to OpenAIRE's impact and has four goals: (i) promote OpenAIRE services to potential users, (ii) support the uptake of the H2020 mandate, (iii) propagate information about project results, (iv) establish new collaborations. OpenAIRE's distributed European, and global network facilitates optimum dissemination channels for a diverse set of communication methods.

Material for different stakeholders

The consumers of OpenAIRE services are very diverse and any communication requires carefully targeted messages. In addition, consortium members are included in the strategy. Given the scope and size of the project, horizontal and vertical communication channels are therefore vital. Stakeholders will be targeted as follows:

Stakeholder	Message / Medium
OpenAIRE consortium	**What:** Regular dissemination activities (consortium 'news flashes') will inform all partners about project activities, workshops, tasks, and upcoming webinars. **Medium:** email send outs, news-bulletins, news flashes, webinars, social media (OpenAIRE Facebook site, Twitter).
EC Project Managers and Officers, Research administrators	**What:** clear explanation of H2020 obligations and how to fulfill them. This will be disseminated at project kick-off. **Medium:** 'Starter kit' for Horizon2020 via a brochure and targeted Webinars via WP4.
Researchers	**What:** Made aware of H2020 mandate and OA deposit within their research process and output. Apart from information on the Open Data Pilot, they are also given examples of OpenAIRE services to link their publications to other information (data, funding). **Medium:** Attention-grabbing postcards, visually appealing with catch phrases. Clear 'end-user' scenarios for researchers.
European Commission	**What:** Training about how to support H2020 **Medium:** Webinars, briefing papers, face to face presentations.
Funders	**What:** Made aware of 'what's in it for them' with regard to using OpenAIRE services to gather research output from specific programmes. **Medium:** Examples of how funders have worked with OpenAIRE will be given via targeted brochures.
Data Providers	**What:** Awareness of OpenAIRE's guidelines and levels of compliance at repository level and

	benefits. **Medium:** Targeted suite of leaflets and webinars.
e-Infrastructures	**What:** How to interoperate at a content level, guidelines **Medium:** Outreach via infrastructure events (ICT; ICRI).
Publishers and data journals	**What:** Emphasizing visibility and reuse of content via a pan-European e-infrastructure. The potential of linking data to publications will be included. **Medium:** Brochures and FAQs
National Points of Reference	**What:** Information about the H2020 mandate. NOADs to distribute. **Medium:** Input for newsletters (bi-directional) and OpenAIRE presence at national training and dissemination activities.
3rd party users	**What:** information about OpenAIRE's APIs **Medium:** portal
New Stakeholders	**What:** General information about OA benefits and H2020 Mandate **Medium:** short clear messages at diverse events, postcards, social media

OpenAIRE workshops: WP2 has a dedicated task to manage the series of workshops to be held at regular intervals throughout the project. These aim to showcase and exploit the results of the project as well as to engage stakeholders at an international level. Each workshop will be organized by a regional coordinator and held in a geographically-distinct region, trying to coincide with a community-significant event (e.g. Open Repositories). Titles are as follows:

"Innovative publishing models to support open science" – "Legal issues in the context of the Open Research Data Pilot" – "Measuring OA impact" – "Sharing research data and data publishing practices" – "Text Mining in scientific publications"

Workplan for the dissemination strategy: OpenAIRE will maintain a 'Dissemination roadmap' (D2.2) as a tool and a living document which will develop a tight schedule of who and where to target, methods of outreach and a timeline for follow-up, including training activities and webinars. This roadmap will also keep an active table of all ongoing outreach and stakeholder contacts to provide information about OpenAIRE's activities. This workplan will be revised mid-project.

Key Milestones in dissemination strategy: Awareness campaign for start of H2020; 75% response rate from contact with project coordinators; Growth in Helpdesk requests; Contact with at least two further funders in the first year. The following measures will be used to evaluate the success of the dissemination strategy: number of newsletter hits, hits on the portal, take up of services and repository compliancy after a particular event, more social media users. Questions about the mandate and response time from the helpdesk will also signify success. A shift in attitude to the H2020 mandate – wider take up – will be a long-term goal of the strategy.

Action	Impact	Channel
Awareness of OA mandate via dissemination activities	Wider uptake of the H2020 OA mandate	All dissemination channels, and support and training activities
Outreach to data source managers	H2020 OA publications are available and findable online	Targeted webinars, leaflets,
Developing a culture of good research practice among researchers	Intellectual capital safely preserved for further exploitation	Support and training for Open Research Data Pilot

2.2.2   *Software and Data Management in OpenAIRE2020*

Open Source Software

Currently, the OpenAIRE infrastructure is powered by the D-NET Software Toolkit, available under Apache license, and Zenodo by the Invenio repository platform, available under GPL. All extensions to the software envisaged in OpenAIRE2020 will follow the same licensing pattern. As such, all OpenAIRE2020 software will be available as Open Source and through the SVN repositories supported in WP6.

Knowledge management and protection strategy

The consortium commits to the Horizon2020 Open Access mandates and intends to embrace all possible Open Access roads known today. These include Gold Open Access, Green Open Access and self-archiving. With this objective, Consortium partners will privilege Open Access journals or non-Open Access journals which support Green and Gold roads. They will rely on dedicated funding from their research projects and/or institutions and store originals or pre-prints of their publications into their organization's repository or, in absence of such repositories, into OpenAIRE's Zenodo for publications. Similar strategies will be adopted for research data, whenever this may arise and be a relevant part of the publication: thematic data repositories will be preferred and alternatively OpenAIRE's Zenodo for datasets will be used.

Data management plan

Today, the OpenAIRE infrastructure offers a 24/7 service for populating and accessing an Information Space of almost 13,000,000 objects, representing metadata about publications, datasets, persons, organizations, projects, and data

sources and relationships between them. In order to comply with Horizon2020's Data Pilot, OpenAIRE2020 will elaborate and implement a project strategy and business model concerning publishing of data manipulated by the OpenAIRE infrastructure. Specifically, the aspect of: *standards and metadata for data*, *data sharing*, data citation, *archiving and preservation* will be dealt with, in order to ensure *discoverability*, *accessibility*, *assessability*, *intelligibility*, and *standardization*. In the following we describe the OpenAIRE2020 scenario and give some initial RDM considerations on these aspects. All actions in this respect will be taken under WP6, Task 6.6.

OPENAIRE INFORMATION SPACE: RESEARCH DATA MANAGEMENT PLAN

The infrastructure constructs and stores the OpenAIRE information space graph of objects into an HBASE Column Store. As a whole, this information space is a world unique collection, precious to the mission of Open Access and research impact measurement in Europe. OpenAIRE2020 will make this collection available for access and re-use to the outside world, with no restrictions(e.g. CC BY, CC0).

The infrastructure constructs and stores the OpenAIRE information space, a world unique collection, precious to the mission of Open Access and research impact measurement in Europe. OpenAIRE2020 will make this collection available for access and re-use to the outside world with no restrictions (e.g. CC BY, CC0).

Standards and metadata Objects conforming to the information space data model, inspired by the CERIF and DataCite data models, are stored on an HBASE cluster according to an efficient "column family" representation. OpenAIRE export services (WP9) will support multiple standard access APIs and export such content according to several standards formats, e.g. XML, RDF and JSON, and data models, e.g. Dublin Core, CERIF (for OpenAIRE, see guidelines), and DataCite. The relative JSON, RDF, and XML schemas will be published (in DocBook format) in order to maximize re-use and intelligibility.

Data Sharing The OpenAIRE information space will be available for download and re-use under an **Open Access** license, with no restriction of embargo or re-use. OpenAIRE2020 (today provides and) will provide 24x7 access to the information space via standard APIs. These APIs include OAI-PMH, HTTP REST search APIs, OpenSearch, and a SPARQL Linked Open Data (WP8) entry point. Specific APIs will be provided on request to serve interoperability with systems or infrastructures that are particularly relevant to OpenAIRE (e.g. research social networks). Plans will be made in order to make the collection also **openly** available for bulk-download (e.g. tar file of JSON records) from the OpenAIRE2020 deployment of the OpenAIRE Zenodo data repository.

Archiving and preservation The data collection will be archived (robustness) at the production deployment site (ICM) thanks to regular replication on a local storage area network. Data replica sites will be sized in accordance with the expected growth of the information space and careful planning will be performed in order to anticipate critical scenarios and minimize the risks of data loss. As specified above, plans will be elaborated to use OpenAIRE Zenodo for datasets for OpenAIRE metadata preservation, in line with requirements to deposit research data into a research data archive (Zenodo is today registered in the re3data.org directory).

Zenodo Data: As a research data archive itself, the data in Zenodo will already be managed with long-term preservation in mind, using the backup, redundancy, and preservation infrastructures used in CERN for the LHC data.

2.2.3   Communication Activities

The following table outlines key stakeholder groups for outreach, their interest and benefits:

Potential Beneficiary	Interests/ Benefits	Benefits for OpenAIRE
ESFRI projects	Integration of OA awareness into training material to enhance awareness	Wider publication base, greater adherence to OA mandate, cross-disciplinary training resources
Research Administrator Associations (e.g. EARMA)	Supporting the OA mandate requirements	Effective vehicle to contact EC project managers
Science Europe	Policy engagement and harmonization for Open Access	Dissemination of knowledge to a policy-orientated audience
Open Science groups (e.g., Open Knowledge Foundation)	Providing their stakeholders with information about OA mandate and Open Research Data Pilot and how to comply	Dissemination of support materials via their networks
University Associations (e.g., EUA, LERU)	Awareness of OA obligations at decision-making level	Top-down support for growth in repository population
IPR Helpdesk	Two-directional Information exchange on IPR issues for H2020 participants	Spreading awareness of OA mandate via wider networks. Supporting users with more channels of IPR information and expertise.

OpenAIRE will use the following outlets (Table 3) to disseminate information. All materials created will be put into the Dissemination Kit for NOADs via the portal. For several stakeholders, there will be more than one appropriate communication channel. A communication plan in WP2 will manage and collect input from consortium members for dissemination in relevant channels.

Table 3. OpenAIRE2020 communication channels.

Activity	What
Brochures, leaflets, cards, posters, briefing papers	The core of the print material will contain clear explanations tailored to each stakeholder. Envisaged are brochures for H2020 Project Managers, EC Project Officers, Data Providers. Short, eye-catching statements in postcard form. All will incorporate the OpenAIRE branding
Synergies with the media	Raising profile via relevant news articles and press releases, in particular at the kick-off of the project and to disseminate key results. Also used to raise awareness of the upcoming services and support for Horizon 2020 via EC press offices.
Mailing lists	Newsworthy emails about OpenAIRE will be circulated and contributed on community topics (e.g. guidelines) (Jisc repositories, GOAL, Lita-l)
OpenAIRE newsletter	An effective dissemination method, with wide readership and diverse contribution. Contributions will be strategically invited and monitored in the dissemination roadmap and communication plan.
OpenAIRE portal	The OpenAIRE portal is central to the dissemination strategy, acting as a multi-functional gateway to a range of resources, materials, services, and search facilities. Information on policies at country level is present on the portal. As a standard tool to communicate news, the portal will be visually appealing. NOADs will have a portal identity and presence which will encourage knowledge-transfer to other communities and regions.
Social media	OpenAIRE already has a very active social media presence and a widely-followed Twitter channel (c.2500 followers) and a Facebook/LinkedIn presence. Channels of communication to those looking for support in Horizon2020 will be actively exploited (e.g. @openaccessEC) and contact to researchers via H2020 project social media and their professional networks, and via FOSTER. New outlets will be picked up when suitable for brand promotion.
Multimedia	OpenAIRE's video channel is already populated with all workshop recordings ready to host and preserve future events. Short explanatory film clips will be produced for each stakeholder.
Workshops and training activities	These are an integral part of the project. Their function is to investigate key topics (research data, publishing models, Gold open access, text mining) and will serve to raise awareness at a global level of project outputs and attract a range of stakeholders
Conferences, booths and events	Conferences and events: Presentations, posters will raise awareness and networking will serve to target relevant stakeholders. Library: LIBER; iPRES, iDCC Infrastructures: ICT2015, ICRI. Researchers: OKFest, DataCite, FOSTER. Data Managers: OAI9, Open Repositories, DC2015, Elag. Publishers: Elpub, APE, OASPA Research Administrators/EC staff/Project Coordinators: IGLO, EARMA, Eurodocs, all Horizon2020 events, Policy makers: Pasteur4OA, NRP events
Partnerships	Bilateral partnerships whereby each partner disseminates key information (EUDAT, EPSI).
Journal articles	The project intends to publish project results in professional press (College and Research Libraries, J. of Digital Curation, Dlib, Ariadne), and via well-known conference proceedings.

3 Implementation

3.1 Work plan — Work packages, deliverables and milestones

3.1.1 Activity areas: Networking, Services and Research

The work plan consists of 10 workpackages (WPs), which can be classified into common "horizontal" activities involving all the partners, and "vertical" activities, that will regroup expert partners in the different sub-domains.

WP1 is dedicated to the coordination and exploitation of the project. Coordination consists of administrative and quality assurance management, scientific coordination overseeing the scientific results of the project and technical management which guarantees their realization. Exploitation will result in the setting up of a legal entity in the first year of the project.

WP2 is concerned with the production and effective distribution of dissemination material, to ensure the widest possible awareness of the project's diverse outcomes. It deals with all OpenAIRE's communication channels and carries out a set of targeted workshops.

WP3 addresses international liaisons, focusing on aligning repository networks, and strengthening and extending the network of liaisons in key stakeholder communities that are related to publications and data to beyond Europe.

WP4 focuses on support and training programmes for the H2020 mandate on OA to publications and the Open Research Data Pilot, targeting a range of stakeholders. Runs and maintains and updates the helpdesk, guidelines and oversees NOAD network and tasks.

WP5 runs an APC pilot for FP7 post-grant. It will establish workflows and policies and integrate the workflows into the OpenAIRE infrastructure for efficient monitoring. It will align with existing national initiatives, engage with publishers, outreach to NOADs, and provide an evidence base that will guide the establishment of a sustainable and competitive market for open access publications.

WP6 focuses on the operation and maintenance of the core system services, which involves the coordination and realization of design, development, testing, integration and deployment of services into a production system, maintaining such a system with an optimum quality-of-service, and the daily operation of populating and curating the system with the appropriate data (validating, harvesting/collecting, transforming, interlinking). Gives special emphasis on SLAs and puts in place the OpenAIRE2020 research data management.

WP7 is addressing various scholarly communication topics that relate to the advancement of open scholarship and the improved interoperability of publication-data repositories. It analyses legal issues within the context of the EC's Open Research Data Pilot, explores indicators for measuring the impact of Open Access across Europe, oversees community efforts in the establishment of common data citation methodologies and services, and carries out a study for open review methodologies and results.

WP8 focuses on OpenAIRE's data management activities. It dedicates effort to extend the data model to accommodate new functionalities (software, services, APC relations, usage data, etc.). It establishes data quality policies and develops new services for data monitoring activities, links through LOD to similar infrastructures, and aggregates usage data and content for targeted research communities.

WP9 develops the front-end services targeting end users and 3rd party providers. Deals with portal access, reporting, and statistics services (visualization), delivers anonymization services to assist in the Open Research Data Pilot and organizes brokering services to allow the exchange of metadata among repositories. Finally it offers a mechanism to engage young innovators and 3rd party service providers to produce novel services.

WP10 is dedicated to the back-end text mining services that extract research-related information from publications and data and produce the extra knowledge needed to create an interlinked and integrated scholarly communication space. It moves further and produces advanced research analytics covering Europe in geographic and discipline terms over time. All services and produced knowledge will be offered to 3rd party service providers for further use.

The main objectives in the realization of the OpenAIRE infrastructure will be conducted in parallel and involve synergies between networking, service and research activities. Each workpackage is structured as a series of finite, effective and well-defined tasks resulting in a workplan that clarifies dependencies between tasks, partners and workpackages. Each workpackage addresses a clearly specified and coherent set of tasks, allowing it to deliver key results to dependent workpackages. This structure ensures that project management functions are clear and verifiable
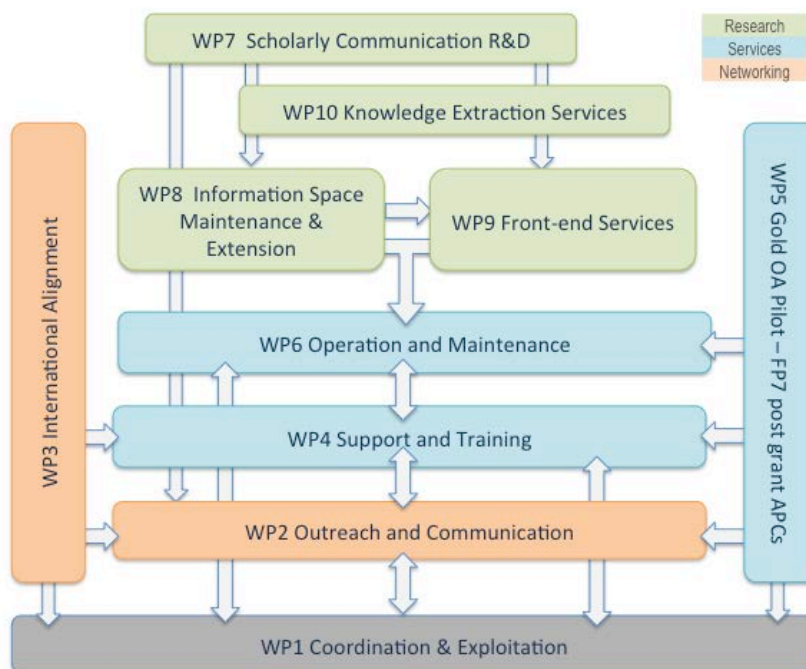
Figure 1. Pert Diagram - OpenAIRE2020 WP interaction

OpenAIRE2020 will have two distinct training periods – From M1 to M21, and from M21 to M42, both addressing all stakeholders.

The OpenAIRE technical services will be released in three phases, each containing new components developed in WP8, WP9 and WP10 (Figure 3). The detailed release plan will be published in M2. Each release will follow a cycle of pilot › testing › integration › deployment schedule that lasts 2 months.
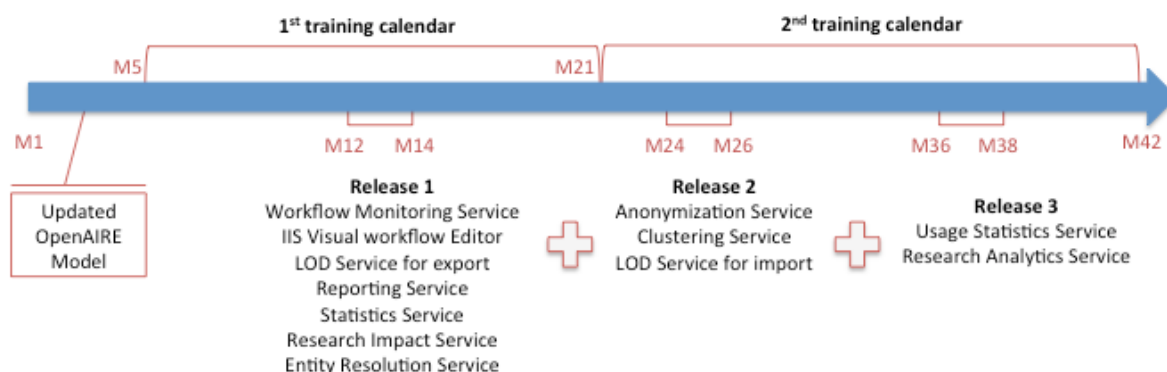
Figure 2. OpenAIRE2020 technical and training programme timeline overview.

Gantt chart table (months 1–42). For each deliverable (D) and milestone (M), the month of occurrence is given. Task rows (T) run as continuous bars over the indicated periods.

WP	ID	Description	Month(s) marked
WP1	T1.1	Coordination	1–42 (bar)
	T1.2	Exploitation	1–42 (bar)
	D1.1	Project quality plan	D: 2
	D1.2	Goals and strategy of legal entity	D: 6
	D1.3	Progress report	D: 12
	D1.4	Governance model for OpenAIRE legal entity	D: 12
	D1.5	Progress report	D: 24
	D1.6	Progress report	D: 36
	D1.7	Final progress report	D: 42
	D1.8	Detailed activity report	D: 42
	M1.1	Legal entity establishment	M: 12
WP2	T2.1	Production of Dissemination Material	1–42 (bar)
	T2.2	Dissemination Channels	1–42 (bar)
	T2.3	Organisation of Outreach Events	1–42 (bar)
	D2.1	Dissemination Roadmap	D: 4; D: 18
	D2.2	National Workshops: lessons learned	D: 40
	M2.1	Dissemination Kit	M: 5
	M2.2	Workshop - Publishing Models	M: 9
	M2.3	Workshop - Legal Issues	M: 17
	M2.4	Workshop - Measuring the impact of Open Access	M: 26
	M2.5	Workshop - Sharing Research Data	M: 34
	M2.6	Workshop - Text Mining	M: 41
WP3	T3.1	Global alignment of repository networks	1–42 (bar)
	T3.2	Liaising with related initiatives	1–42 (bar)
	T3.3	Pilot(s) showcasing Global Interoperability	1–42 (bar)
	D3.1	Liaison Strategy	D: 5
	D3.2	Report of current state and roadmap for implementation of guidelines in Latin America	D: 16
	D3.3	Report on current state of repository alignment globally and roadmap	D: 20
	D3.4	Final report of implementation status in Latin America	D: 31
	D3.5	Assessment of priorities for international alignment	D: 39
	M3.1	High-Level Consultation - Repository Networks	M: 8
	M3.2	Promotional Workshop/Consultation for Latin-American region	M: 18
	M3.3	Deployment of OpenAIRE validator to assess levels of adoption of the guidelines	M: 23
	M3.4	Implementation Workshop with practicioners and global stakeholders	M: 30
	M3.5	Final Workshop: progress and future alignment	M: 42
WP4	T4.1	NOAD network coordination	1–42 (bar)
	T4.2	H2020 OA policy training and support	1–42 (bar)
	T4.3	Research Data Management support	1–42 (bar)
	T4.4	Guidelines for data providers and OpenAIRE service APIs	1–42 (bar)
	T4.5	Helpdesk support	1–42 (bar)
	D4.1	Helpdesk System Toolkit	D: 3
	D4.2	Support kit for OA policy in H2020	D: 8
	D4.3	Support kit for open research data pilot	D: 10
	D4.4	Helpdesk Operation Report	D: 40
	D4.5	Training Programme Report	D: 40
	M4.1	NOADs programme plan completion	M: 6; M: 18
	M4.2	Training calendar for all stakeholders	M: 6; M: 18
	M4.3	Guidelines update 1	M: 17
	M4.4	Guidelines update 2	M: 35
WP5	T5.1	Policies and roadmapping	1–42 (bar)
	T5.2	Workflow development and implementation	1–42 (bar)
	T5.3	Monitoring and Technical alignment	1–42 (bar)
	T5.4	Promotion and engagement	1–42 (bar)
	D5.1	Article policy/specifications guidelines	D: 3
	D5.2	First Periodic report on APC uptake and metrics	D: 16
	D5.3	Market/Economic Impact Study	D: 27
	D5.4	Second Periodic report on APC uptake and metrics	D: 30
	D5.5	Roadmap for a sustainable and competitive market for open access publishing	D: 34
	M5.1	APCs Workflow Mapping	M: 3
	M5.2	Launch of APC pilot	M: 4
	M5.3	Information packs for NOADs and publishers	M: 4
	M5.4	Assessment of uptake and priority check	M: 17
	M5.5	Workshop on sustainable open access publishing	M: 34

Figure 3. Gantt chart: management and networking roadmap.

Gantt chart covering months 1–42. Yellow bars indicate task duration; **D** marks deliverables; **M** marks milestones.

WP	ID	Description	Deliverable (D) / Milestone (M) months
WP6	T6.1	Infrastructure maintenance	—
	T6.2	Software lifecycle	—
	T6.3	Infrastructure operation: workflow management	—
	T6.4	Infrastructure operation: Information Space curation and quality monitoring	—
	T6.5	Infrastructure operation: legal and sust. serv. provision to 3rd-party serv.s	—
	T6.6	Data management planning	—
	D6.1	OpenAIRE specification and release plan	D: 2, 24
	D6.2	Legal frameworks to enable data exchange	D ongoing: 7
	D6.3	Data management plan	D ongoing: 7
	D6.4	Maintenance report	D: 20, 42
	M6.1	Production release 1	M: 13
	M6.2	Production release 2	M: 25
	M6.3	Production release 3	M: 37
WP7	T7.1	Legal issues in context of the Open Data Pilot	—
	T7.2	Measuring OA impact	—
	T7.3	Literature-Data integration	—
	T7.4	Open review to literature and beyond	—
	D7.1	Open review: tender call evaluation report	D: 6
	D7.2	Analysis of OpenAIRE indicators	D: 12
	D7.3	Governance and requirements of interlinking service	D: 15
	D7.4	Novel models for open peer review	D: 15
	D7.5	Data citation standards and index requirements	D: 15
	D7.6	The Open Research Data Pilot: Personal Data and PSI Rules	D: 19
	M7.1	First Workshop on "Governance and requirements of interlinking service"	M: 7
	M7.2	First Workshop on "Data citation standards and index requirements"	M: 7
	M7.3	Peer review model based on blogging platform	M: 12
	M7.4	Two prototypes and proof of concept for open peer review	M: 12
	M7.5	Second Workshop on "Governance and requirements of interlinking service"	M: 14
	M7.6	Second Workshop on "Data citation standards and index requirements"	M: 14
	M7.7	Data-literature interlinking service prototype	M: 24
	M7.8	Data citation standards and index	M: 24
WP8	T8.1	OpenAIRE data model maintenance	—
	T8.2	LOD services	—
	T8.3	Research Impact Services	—
	T8.4	Data flows and dynamics monitoring services	—
	T8.5	Usage Statistic Services	—
	D8.1	OpenAIRE data model	D: 3, 18, 30
	D8.2	LOD services	D: 4
	D8.3	Research Impact Services	D: 6
	D8.4	Data flows and dynamics monitoring services	D: 9
	D8.5	Usage Statistic Services	D: 23
	M8.1	LOD services	M: 12, 24, 36
	M8.2	Research Impact Services	M: 12, 24, 36
	M8.3	Data flows and dynamics monitoring services	M: 12, 24, 36
	M8.4	Usage Statistic Services	M: 36
WP9	T9.1	OpenAIRE portal and services	—
	T9.2	Statistics, reporting and visualization services	—
	T9.3	Catch-all data pilot Services: Zenodo	—
	T9.4	Open Access publication broker Service	—
	T9.5	OpenAIRE third-party applications	—
	T9.6	Data Anonymization Services	—
	D9.1	OpenAIRE portal and services	D: 6, 18, 30
	D9.2	Statistics, reporting and visualization services	D: 8, 18, 30
	D9.3	Zenodo services	D: 6, 18, 30
	D9.4	OA Publications Broker Services	D: 17
	D9.5	Tender and hackatons	D: 17
	D9.6	Anonymization services	D: 18
	D9.7	Innovative services report	D: 41
	M9.1	OpenAIRE portal and services	M: 12, 24, 36
	M9.2	Statistics, reporting and visualization services	M: 12, 24, 36
	M9.3	Zenodo services	M: 12, 24, 36
	M9.4	Tender application deadline and selection	M: 20
	M9.5	First hackaton	M: 24
	M9.6	Anonymization services	M: 24
	M9.7	Innovative services demonstration	M: 33
	M9.8	OA Repository Broker Service	M: 36
	M9.9	Second hackaton	M: 36
WP10	T10.1	IIS workflow management	—
	T10.2	Classification and clustering	—
	T10.3	Entity resolution and linking	—
	T10.4	Scholarly communication network analysis	—
	D10.1	Visual workflow editor	D: 8
	D10.2	Clustering algorithms	D: 18
	D10.3	Entity resolution algorithms	D: 18
	D10.4	Training workflows	D: 33
	D10.5	Map of academic relations report	D: 41
	M10.1	Visual workflow editor	M: 12
	M10.2	Clustering algorithms	M: 24
	M10.3	Entity resolution algorithms	M: 24
	M10.4	Training workflows	M: 36
	M10.5	Map of academic relations	M: 42

Figure 4. Gannt chart: research and technical roadmap.

Table 4 – WP 1: Coordination and Exploitation

Work package number	1			Start Date or Starting Event			M1		
Work package title	Coordination and Exploitation								
Participant number	1	2	3	4	5	7	8	9	10	11
Short name of participant	UoA	UGOE	CNR	ICM	CERN	UNIBI	UMINHO	EIFL	UGENT	CRIStin
Person/months per participant:	22	10	11	2	1	1	1	1	1	1

Objectives

This work packages will carry out the management tasks and the exploitation of the OpenAIRE services/infrastructure by setting up a legal entity in the first year of the project. The OpenAIRE2020 consortium is aware of the attention that must given to the overall coordination and management of a Research and Innovation project, due to the three activity areas Networking, Services and Research as well as the size of the consortium and the duration of the project. The integration of the three activities will create significant management challenges and an effective management must be in place to address the complexity required to extract, share and integrate the results of the three activities.

Description of work

Task 1.1: Coordination

Leader: UoA Participants: UGOE, CNR

The coordination of such a large and visionary project requires a well-organized breakdown of the coordination and management tasks. The coordination is divided among three areas (a detailed breakdown of management, roles responsibilities is described in Section 3 - Implementation):

Overall coordination: UoA will have the overall coordination, including administrative tasks (contact point with the commission regarding all administrative and financial processes). UoA will provide a high level supervision of the project activities including how all major technical decisions are to be implemented to provide recommendations for improving the project's efficiency, funding policies, amendments work-plan and implementation, and to propose and approve resolutions of critical issues and conflicts. A quality control policy will be defined in the early stages of the project and will describe the project management and quality assurance procedures.

Scientific coordination: UGOE will coordinate the strategic, networking and outreach activities of the project and will oversee and guide the networking efforts. UGOE will ensure coherent development in NA and interaction with SA and JRA and will also chair the external Advisory Board to address strategic aspects.

Technical coordination: CNR will coordinate the technical activities of the project in order to ensure coherent progress of SA and JRA, in synergy with NA. Past experience has shown that high quality technical management is crucial to the success of the project. CNR will ensure and modulate the flow of information within the JRA partners, to make sure software realization respects the scheduled.

Task 1.2: Exploitation

Leader: UoA Participants: UGOE, CNR, ICM, CERN, UNIBI, UMINHO, EIFL, UGENT, CRIStin

This task will address the setup of a legal entity for OpenAIRE. It will base its work on the sustainability study (stakeholder analysis, cost benefit analysis) carried out during the OpenAIREplus project, and will take into account all new developments (national, European, global). It will investigate existing business plans and governance structures of similar initiatives to inform the PSC of alternative solutions. The partners in this task will be assisted by subcontractors who will take care of related legal, accounting and business aspects.

Deliverables

D1.1 Project quality plan [UoA, R, M2]
D1.2 Goals and strategy of legal entity. OpenAIRE requirements via existing governance models. [UoA, R, M7]
D1.3 Progress report [UoA, R, M12]
D1.4 Governance model for OpenAIRE legal entity [UoA, R, M12]
D1.5 Progress report [UoA, R, M24]
D1.6 Progress report [UoA, R, M36]
D1.7 Final progress report [UoA, R, M42]
D1.8 Detailed Activity Report [UoA, R, M42]

Milestones

M1.1 Legal entity establishment [M12]

Table 5 - WP2: Outreach and Dissemination

Work package number	2					Start Date or Starting Event				M1	
Work package title	Outreach and Dissemination										
Participant number	1	2	3	5	6	8	9	10	11	27	
Short name of participant	UoA	UGOE	CNR	CERN	ARC	UMINHO	EIFL	UGENT	CRIStin	LIBER	NOADs
Person/months per participant:	13	17	2	1	1	10	10	8.5	4	1	108.5

Objectives

Production and effective distribution of dissemination material, to ensure the widest possible awareness of the OA obligations in Horizon 2020, in close alignment with WP4. Promoting the services of OpenAIRE to targeted stakeholders and maintaining regular dissemination products such as the newsletter and featuring EC projects. Disseminating the results from the project, via a range of communication channels and workshops. Fostering and strengthening communication with network of key stakeholders, and other e-infra projects.

Description of work

Task 2.1: Production of Dissemination Material

Leader: UoA Participants: UGENT, UGOE, UMINHO, CRIStin, EIFL, CNR, NOADs

This task will create a resource-base of relevant material to promote OpenAIRE such as brochures, postcards, leaflets, success stories, web based material, press releases. Existing materials will be updated to reflect the requirements of Horizon 2020, and in keeping with OpenAIRE branding. All materials will be made available via the portal, and adapted to local NOAD requirements. The task will work closely with WP4 to tailor materials to relevant stakeholders (e.g. researchers, administrators, EC project managers, funders, publishers, repository managers, institutional data initiatives, CRIS administrators) and will direct targeted messages to each stakeholder about the services the OpenAIRE infrastructure can offer. Discipline-level differences in open access adoption, and data management practices will be considered when creating specific briefing papers. Materials will be used as instruments by NOADs to approach specific stakeholders, e.g. decision makers, funders, and will be used as advocacy materials as appropriate. Dissemination materials will focus on the range of services that OpenAIRE provides and will make succinct and understandable summaries of project research outputs. Work on promoting the OpenAIRE guidelines within WP4 will be bolstered by specific leaflets, slides. Briefing papers for NRPs to focus on specific aspects of policy implementation will be prepared.

Task 2.2: Dissemination channels

Leader: UGOE Participants: UMINHO, EIFL, UGENT, CRIStin, NOADs

This task will manage the dissemination of OpenAIRE's outreach material and gather input for its dissemination activities. The task will also provide bi-monthly updates via a blog within the consortium. The development and maintenance of a communication plan for scheduling output and content gathering will support this task in order to schedule regular contributions from the regional NOAD network and targeted stakeholders. This task will coordinate the newsletter. Thematic sections will include: open access and data policy update; scholarly communication activities; research data activities; featured EC projects and innovative publishing services. NOADs will be encouraged to contribute highlights from their regions to the regular OpenAIRE newsletter which will be managed by the regional coordinators on a cyclical basis. Spotlights on featured EC projects that demonstrated good practice strategies for open access and data management in Horizon 2020 projects will also be gathered from NOADs and published. A light-weight and flexible dissemination roadmap will be produced. This will plan for, and target events where OpenAIRE can raise visibility of open access obligations and promote its infrastructure, examples include: leveraging NOADs contact with National Reference Points (NPRs), National Contact Points (NCPs); making a concerted effort to contact Horizon2020 projects at kick-off, in close communication with the EC, in order to disseminate the toolkits (slides, presentations, briefing papers) from WP3. Activities to communicate the post-project Gold OA funds to relevant projects in WP5 will be planned in this task and draw on existing FP7 communication channels. All dissemination activities are closely aligned with liaison to relevant stakeholders in WP5 and all materials are aligned with international outreach.

Task 2.3: Organisation of Outreach Events

Leader: UGENT Participants: UoA, UGOE, CRIStin, EIFL, UMINHO, NOADs

This task will coordinate events and activities which will raise awareness of OpenAIRE and its associated activities. Each NOAD will schedule a national workshop which will be coordinated and supported by this task. These outreach workshops will focus on the uptake of the OA mandate in their country, discuss national policy and infrastructure interoperability, and

involve different stakeholders (relevant infrastructure providers, research administrators, project coordinators, researchers), and where appropriate align with Pasteur4OA events. An additional series of four public workshops will be organized by the regional coordinators and held in each of their regions, to coincide with key conferences, and where possible with the European presidency. The workshops, each focusing on a topical subject in infrastructure development, will also reflect the outcomes of the research studies in the project and be open to a wide, diverse audience. Contributions from international efforts and initiatives will be encouraged, in order to align emerging practices. Each workshop will be video recorded (where possible) and the results immediately disseminated via the OpenAIRE portal. Preliminary titles are as follows:

– *"Innovative publishing models to support open science"* This could be held in conjunction with the Academic Publishing in Europe, 2015;*"Legal issues in the context of the Open Research Data Pilot"; "Measuring OA impact"; "Sharing research data and data publishing practices; "Text and Data Mining in scientific publications"*

Deliverables

D2.1 Dissemination Roadmap – This will present the overall communication strategy of the project to determine maximum exposure of OpenAIRE and its results. A first iteration will be delivered. [UGOE, R, M3 updated at M18]

D2.2 National Workshops: lessons learned – A summary of the national NOAD workshops and their impact at national and European level [UGOE, R, M40]

Milestones

M2.1 Dissemination Kit [M6]

M2.2 Workshop: *"Innovative publishing models to support open science"* [M10]

M2.3 Workshop: *"Legal issues in the context of the Open Research Data Pilot"* [M18]

M2.4 Workshop: *"Sharing research data and data publishing practices"* [M26]

M2.5 Workshop: *"Measuring OA impact"* [M34]

M2.6 Workshop: *"Text and Data Mining in scientific publications"* [M40]

Table 6 - WP3: International Alignment

Work package number	3		Start Date or Starting Event		M1	
Work package title	International Alignment					
Participant number	1	2	3	8	**12**	14
Short name of participant	UoA	UGOE	CNR	UMINHO	**COAR**	CLARA
Person/months per participant:	10	5	10	6	18	12

Objectives

This work package will focus on aligning repository networks internationally. The aim is to accelerate current activities in the area of interoperability by promoting alignment, and facilitating the exchange of good practices and the adoption of shared indicators, services and technologies across regional networks. The aim is to strengthen and extend the network of liaisons in key stakeholder communities to beyond Europe to achieve widespread collaboration among repository networks globally. Activities will be closely aligned with other work packages within the project and major regional initiatives in Latin America, North America and other regions.

Description of work

Task 3.1: Global alignment of repository networks
Leader: COAR Participants: CLARA, UMINHO

This task will focus on the alignment of regional networks of repositories in order to create an infrastructure that can connect across geographic boundaries. Alignment will help to avoid regional silos and support global interoperability of open access e-infrastructures. While regional diversity is important and will support innovation, there are a number of common approaches that can be adopted to facilitate exchange of data across repositories and the development of global value added services. These include the harmonization of some policy elements, and adoption of standardized impact measures, publication tracking methods, metadata elements, vocabularies, researcher IDs and so on.

This task will review the current state of alignment of repository networks and work towards further integration at key networks around the work including Latin America, North America, China and Australasia. This will lead to a report of current state of repository alignment across the world (deliverable 3.1).

In order to promote global interoperability, communications with regional/national/thematic networks as well as other stakeholders will play a central role. The task will also involve facilitating ongoing dialogue with other repository networks around the world to identify priorities and determine mechanisms for working together. This task will also ensure that other communities are aware of the value of alignment by liaising with other communities including policy makers, the research data community, publishers, and research administrative systems.

The task will involve organization of meetings to bring together representatives from repository networks (see list of milestones) and liaising with other stakeholder communities worldwide, including presentations at major international conferences and attendance at important meetings. It will also support communications across regions to raise visibility of global trends and inform about open access developments in institutional repositories and research infrastructures.

A report on the progress of international alignment of repository infrastructures will conclude activities, including an analysis of the role of Europe and its research institutions in international collaborations (D3.5). Activities in this task will be closely connected to WP 2 (Dissemination and Advocacy) and WP4 (Training and Support).

Task 3.2: Liaising with related initiatives
Leader: UGOE Participants: UoA, CNR

Given the rapid pace of change in this environment, it will be extremely important that OpenAIRE maintains an ongoing dialogue with other key players. This task will involve liaising with other related initiatives working in the area of research infrastructures and open access issues including Research Data Alliance, Global Research Council, Science Europe, G8 Working Group, UNESCO, FAO, NGOs, OKFN, W3C, SPARC, DataCite, euroCRIS, and ESFRI projects. Concretely, activities in this task will include the identification and selection of issues and goals that need cooperation of initiatives and networks. This will result in a liaison strategy as a deliverable. Presentation at major international conferences will complement activities and activities will be included in dissemination activities, e.g. newsletter highlights.

Task 3.3: Pilot(s) showcasing Global Interoperability
Leader: CLARA, Participants: CNR, UoA, COAR, UMINHO

This task will expand the adoption of guidelines developed through OpenAIRE in Latin America in order to demonstrate of the feasibility of repository interoperability. OpenAIRE has developed practices and technologies that enable users

(including funders) to track publications in the repository network according to research project, funding agency and so on. The use of common guidelines and technologies in both Latin America and Europe, two large regions, would promote further adoption in other regions and build momentum for global alignment.

The task will assess the current state of adoption of DRIVER and OpenAIRE Guidelines in Latin America and identify barriers to their implementation. It will then promote the adoption of guidelines in the region through a workshop, and develop a roadmap outlining the strategy for implementation in different countries. Information will be disseminated in various ways including a virtual workshop. The CNR and UoA will adapt the OpenAIRE validator for Latin America (with LaReferencia branding). CNR and UoA will also assess the feasibility of implementing a LaReferencia instance of the D-NET aggregator in Europe that will demonstrate the value of the adoption of guidelines in Latin America.

Deliverables

D3.1 Liaison Strategy: a strategy on OpenAIRE's international liaison [UGOE, R, M6]

D3.2 Report of current state and roadmap for implementation of guidelines in Latin America [CLARA, R, M16]

D3.3 Report on current state of repository alignment globally and roadmap [COAR, R, M20]

D3.4 Final report of implementation status in Latin America [CLARA, R, M30]

D3.5 Status report "Assessment of priorities for international alignment" [COAR, R, M38]

Milestones

M3.1 High-Level Consultation Meeting of Repository Networks [M7]

M3.2 Promotional Workshop/Consultation for Latin-American region [M12]

M3.3 Deployment of OpenAIRE validator to assess levels of adoption of guidelines [M24]

M3.4 Implementation Workshop with practitioners and global stakeholders (discussion of roadmap and identification of further priorities, possibly in conjunction with COAR Annual Meeting) [M29]

M3.5 Final Workshop (present progress and promote further alignment) [M41]

Table 7 - WP4: Support and Training

Work package number	4					Start Date or Starting Event					M1			
Work package title	Support and Training													
Participant number	1	2	3	5	7	8	9	10	11	19	21	27	33	
Short name of participant	UoA	UGOE	CNR	CERN	UNIBI	**UMINHO**	eIFL	UGENT	CRIStin	Jisc	DANS	LIBER	EKT	NOADs
Person/months per participant:	18	25	2	1	7	30	14	12	11	8	5	2	7	139

Objectives

This WP establishes targeted support programmes for the H2020 mandate on OA to publications and the Open Research Data Pilot, and provides expert advice on compliance. Runs and maintains the helpdesk and creation of portal informational material. Maintains and updates the Guidelines for Data Providers. Conducts training for a range of relevant stakeholders about OpenAIRE services. Manages, distributes and oversees NOAD network and tasks.

Task 4.1: NOAD network coordination
Leader: UGOE Participants: UMINHO, EIFL, CRIStin, UGENT, UoA

This task will closely oversee the management of the NOADs. Supporting the task is the NOADs programme plan, a constantly updated folder and set of documents which, with all regional coordinators, will oversee tasks and update activities. NOADs will have access to a detailed task list which groups their activities into Contact and Outreach; Helpdesk Support; Dissemination; Portal Presence; Planning; NPR outreach. NOADs will also be asked to provide input to dissemination channels on a regular basis. Monthly monitoring and regional meetings by the regional coordinators will ensure a clear communication path to central coordination. Assessment and support will be carried out in a structured way to ensure that tasks are being conducted to best ability. Action plans and activity reports will be completed regularly. This includes notifying regional coordinators about outreach activities to project coordinators, researchers, administrators, national points of reference and funders, and national workshops from T2.3. In addition, information about consortium activities, in particular evolution of the OpenAIRE services, upgrades to the infrastructure/portal, Zenodo, guidelines will be communicated to NOADs via webinars and briefing sessions to keep partner abreast of developments in the project.

Task 4.2 H2020 OA policy training and support
Leader: EIFL Participants: UMINHO, EIFL, CRIStin, UGENT, UoA, CNR, UGOE, NOADs

This task will provide the body of resources to facilitate the easy uptake and comprehension of the OA mandate to publications among a wide range of stakeholders, coinciding with the start of Horizon2020 projects. Working closely with WP2 and leveraging on the work produced within FOSTER project, a range of materials will be produced or re-packaged at the start of the project and later on-demand according to emerging needs. OpenAIRE will deliver training materials, briefing papers, webinars for each target group, as well as chance to exchange ideas and good practice via OpenAIRE's social media channels. This task will support key stakeholders in the following ways:

Researchers and project managers: Given the widened remit of H2020 OA policies, many researchers will need basic information about OA (e.g. what is and how to provide OA to publications, copyright and quality issues in OA), while all of them need to know how to comply with the H2020 OA requirements. Training will be offered on H2020 compliance requirements as well as on the OpenAIRE tools (e.g. MyOpenAIRE) and how they can be used to monitor mandate compliance at different organisational levels (e.g., project, institution) this will incorporate notifications about project publications and other features e.g. related datasets. A 'starter kit' will be made available in digital format to project managers, to be distributed among the project partners at kick-off meetings. Working closely with, and co-hosting with FOSTER, special reference will be paid to disciplines less aware of OA (e.g. Humanities and Social Sciences).

Funders, research administrators and EC project officers: targeted programmes will be developed to communicate OA obligations and adherence to the mandate, including use of OpenAIRE infrastructure and services. Webinars as well as face to face meetings (particularly for EC staff) at relevant outreach events.

NOADs: NOADs will be encouraged to attend training for specific stakeholders in order to understand how to support the EC mandate within their countries. NOADs will also be offered webinars to support OpenAIRE developments. All training will be carried out using a variety of methods from face-to-face training attached to other project events and workshops to presentations and webinars.

Task 4.3 Research Data Management training and support
Leader: DANS/Delft. Participants: UGOE, EIFL, UGent, UMINHO, CRIStin, UoA, Jisc (DCC)

This task will support the EC's Open Research Data Pilot, and promote and propagate relevant resources to assist research data management planning, in close collaboration with E-INFRA-1. A support kit will be produced. The task will be directed

at a range of stakeholders: **EC staff** (project officers) to make them aware of the pilot's obligations and how to monitor progress; **project managers** eligible for the Open Research Data pilot; **EC grantees and researchers** who will contribute to the data planning and creation; **research administrators** who support projects at institutional level. Content for the task will be developed in accordance and close collaboration with FOSTER, and any generic materials can be reused and tailored especially for the EC pilot. DANS, Delft and Jisc as NOADs will contribute given their special expertise in this area. Support and outreach will consist of the following: templates for RDM, advice on data centres, Zenodo updates, legal issue guidance (from WP7, preliminary results will be incorporated at Month 10), support on the Open Research Data Pilot (opt-in/out clauses, information for project coordinators). A range of outreach and training techniques will be employed: Webinars, presentations, face to face training, briefing papers and FAQs.

Task 4.4 Guidelines for Data providers and OpenAIRE service APIs
Leader: UNIBI Participants: UMINHO, CERN, CNR, EKT, COAR, Jisc

Since 2010, the OpenAIRE Guidelines have been used to provide guidance to data providers on how to expose their content, to promote interoperability, to validate and harvest repositories and other data sources into the OpenAIRE infrastructure. This task will provide the needed updates to the guidelines for Data Source Administrators, as a result of the community involvement in sustained use of the guidelines, and the development of related "standards", like the CERIF model and the DataCite Metadata Schema. On the evolution of the Guidelines, OpenAIRE will actively seek engagement, collaboration, alignment and convergence with other relevant organizations and initiatives (like EuroCRIS, DataCite, COAR, UK-RIOXX and V4OA, CASRAI, etc.). Simultaneously, new standards (like the ResourceSync Framework) aiming for a more efficient exchange and synchronization of scholarly web resources between data providers and consumers will be explored. In order to facilitate the uptake and use of OpenAIRE public services, this task will also provide a body of documentation, guidance and support information on OpenAIRE service APIs.

This task will mainly consolidate and update _all_ OpenAIRE guidelines for data providers to meet H2020 requirements (e.g. Open Data Pilot), including minimum requirements for collecting other (national or international) funder information.

Task 4.5: Helpdesk Support
Leader: UMINHO Participants: EIFL, CRIStin, UGENT, UoA, NOADs

This task will run the Helpdesk ticketing system, create and maintain the body of resources and references, in conjunction with T 4.3 and WP2, to provide an overall and ongoing support for both the OA mandate to publications and the Open Research Data Pilot. Helpdesk topics, knowledge-base and FAQs will be updated and expanded to reflect the widening remit of NOADs and the scope of Horizon 2020:

– H2020 OA compliance: targeted information for stakeholders on how to comply with the Horizon 2020 will be provided to researchers, project managers, publishers, repository managers, research institutions' EC project administration.
– Data Managers: support will be given on guidelines compatibility, with focus on data repository and CRIS guidelines.
– Open Data Pilot: materials created in T4.4 will also be repurposed via the portal and used to answer Helpdesk requests.
– Licensing information: IPR details including support for reuse of data.
– Gold Open Access: information about details of the Gold OA funds and how to claim payments.

NOADs will be involved in answering questions from their countries, with the support of the core OpenAIRE team, and all requests will be answered within two working days. The helpdesk will be run and maintained by the University of Minho.

Deliverables

D4.1 Helpdesk System Toolkit. Toolkit with operation instructions on how to use the OpenAIRE online helpdesk system. [UMINHO, R, M3]
D4.2 Support kit for OA policy in H2020. Set of materials, FAQs, briefing papers, webinar recordings [EIFL, R, M8]
D4.3 Support kit for Open Research Data Pilot. Set of materials, FAQs, briefing papers, webinar recordings [DANS, R, M10]
D4.4 Helpdesk Operation Report. Detailed report of the Helpdesk online system operation. [UMINHO, R, M40]
D4.5 Training Programme Report [EIFL, R, M40]

Milestones

M4.1 NOAD's Programme Plan Completion. This will manage NOADs activities and gather regular update in tasks. [M5] (Updated at M18)
M4.2 Training calendar for all stakeholders. A scheduled programme for all training activities, training titles, clear target groups, content clarification and when held. The calendar will focus on months 5-21. A second iteration will focus on months 22-42 [M5] (updated at M18)
M4.3 Guidelines Update 1 [M12]
M4.4 Guidelines Update 2 [M36]

Table 8 - WP5: Gold OA: FP7 post grant APCs Pilot

Work package number	5			Start Date or Starting Event				M1
Work package title	Gold OA: FP7 post grant APCs Pilot							
Participant number	1	2	3	6	**13**	19	20	31	50
Short name of participant	UoA	UGOE	CNR	ARC	**LIBER**	Jisc	SURF	COUPERIN	UCL
Person/months per participant:	4	3	3	3	**27**	3	8	2	7

Objectives
The goal of this work package is to establish and run an APC pilot for publications arising from FP7 projects up to two years after the project has ended. The pilot will serve as a means to stimulate publishing in open access journals and should provide an evidence base which will guide the establishment of a sustainable and competitive market for open access publications. The WP will establish workflows and policies for the implementation of an APC payments infrastructure, it will negotiate directly with publishers in order to agree licensing, delivery (publications, metadata) and payment schemes, and integrate the workflow into the OpenAIRE infrastructure in order produce metrics regarding the uptake of the pilot and implementation of policies. Finally, the WP will gather evidence via the pilot and from other sources in order to create a roadmap for fostering a sustainable and competitive market for open access publishing.

Description of work
Task 5.1: Policies & roadmapping
Task lead: LIBER Contributors: UCL, UGOE, SURF, Jisc
This task will focus on defining the policies and specifications under which APC payments will be made. The first step in implementing the pilot will be to make clear what projects and authors are eligible to claim from the APC pilot fund and any limits that may apply (e.g. maximum number of papers funded per project). The policies will be drawn up bearing in mind that the aim of the pilot is to build an evidence base and therefore should have minimal barriers to eligibility for funding so as to maximise the number of open access articles funded. The task will also develop specifications for articles funded under this pilot. These specifications will be used as a basis for negotiating payment schemes with publishers.
Establishment of compliance criteria/specifications for articles
The specifications will be drawn from desk research on practices/polices applied by funders and projects (e.g. SCOAP3, PEER) within Europe and internationally as well as from the technical requirements for integration into the OpenAIRE infrastructure. It is important to develop best practice in this area so that there is a possibility for libraries and funders to reuse these specifications when conducting their own APC negotiations. The specifications will include a cap per APC for both articles and monographs and will be validated by a small group of open access experts. Encouraging publishers to adopt these specifications will contribute to the development of a healthy market for open access by reducing the complexity of licensing, ensuring interoperability and the long term availability of content, increasing transparency around APC charges, as well as making it possible to develop metrics on how the market is developing.
The policies and specifications will be included in guidelines for project managers and publishers. NOADs, research administrators and librarians will also be informed through these guidelines in order to promote this opportunity for reimbursement of APCs to researchers in FP7-funded projects.
Market/economic impact study
LIBER will engage an outside expert to conduct a market/economic impact study. The purpose of the study will be to contribute to a vision of what a sustainable and competitive market for open access publishing should look like. The study should look at whether open access publishing has impacted subscription prices, where the money for APCs is going, and what steps need to be taken in order to ensure a sustainable scholarly publishing ecosystem. If, towards the end of the pilot a significant amount of the APC fund remains unspent this funding will be reallocated to expand the economic impact study to include case studies from institutions and funder in order to provide a more detailed mapping of the landscape.
Roadmapping of a sustainable and competitive open access publishing market
The results of the impact study will be presented at a workshop for librarians, funders, publishers and other stakeholders. A roadmap will be drafted building on the study, the information derived from the metrics and implementations of specifications in the pilot, and input gathered from the workshop.
Task 5.2: Workflow development and implementation
Lead: UCL Participant: LIBER, CNR, UoA, UGOT, ARC
The final workflow will be agreed taking into account that the process is made as easy as possible for the researcher and also to ensure that the necessary data is captured. Input regarding the workflow will be gathered from institutions with experience in APC processing (UCL, UGOE) as well as from Jisc. The bulk of the APC claims should come directly from

the publisher, however, it will also be necessary to make it possible for researchers/institutions to submit claims directly so that the pilot is not initially dependent on agreements with publishers to begin the APC claims processing work.

LIBER will manage the operation of the payments; dealing with APC claims submitted directly or via the NOADs, but also making bulk payments to publishers. The pilot will start at M2 and run for 24 months or until the APC fund is exhausted.

Task 5.3: Monitoring and technical alignment
Lead: ARC Participant: CNR, LIBER

The OpenAIRE infrastructure will be modified to maintain information that provides transparency and feedback related to the pilot. The APCs workflows and policies will inform the technical alignment so that the monitoring of the implementation of policies and the generation of data regarding the spread of articles funded by the pilot can be automated. A Webpage to facilitate the submission of APC claims will also be integrated into the OpenAIRE front end services.

Over the course of the pilot the uptake will be closely monitored in terms of numbers of articles to be expected for publishing (based on data already collected by OpenAIRE, see Task 5.3), articles processed and costs incurred for reimbursement of APCs (collected in Task 5.2). On this basis, regular reports on the number of articles funded, amount spent, average and median cost per articles and comparisons across domains and publication type will be produced.

Based on the first-half year report on APCs uptake and metrics gathered (D5.2, M14 or earlier if spending exceeds initial expectations) the results will be discussed in the Strategic Guidance Board of the project. This will conclude in a realignment of strategies and priorities within the work package where needed, but also in a reassignment of work across the project if a significant under -or over-spending is foreseen.

Task 5.4: Promotion & Engagement
Lead: LIBER Participant: SURF, Jisc, ARC

Promotion and engagement will occur at three levels (1) towards the target community of FP7 grantees via the NOADs in order in encourage uptake of the pilot (2) with publishers (and their associations) in order to agree payment schemes and promote best practice, and, ultimately, (3) with the funders of open access publishing such as research funders, institutions and libraries in order to raise awareness of the pilot outcomes and contribute to the development of a vision for a sustainable and competitive open access publishing market. Both the SURF and Jisc networks will be leveraged in order to maximise engagement. This task will link with WP4 to promote awareness of open access publishing and the APC fund, and to WP2 to ensure that information regarding the pilot is included in OpenAIRE dissemination materials.

Identification of target market/market analysis
FP7 grant data will be analysed by ARC/UoA to identify projects and former grant holders that are eligible to apply for APC funding under the pilot. Those identified will be informed of their eligibility for APC funding and guided on how to submit claims. At the end of the pilot uptake will be assessed and a survey will be sent out to explore attitudes to the pilot.

Publisher engagement
This is central to the success of the pilot. The specifications developed in task 1 will be used as the basis for the negotiation of delivery and payment schemes with publishers. A call will invite publishers to submit proposals for APC prepayments. Proposals must meet the minimum specifications and also provide justification for estimates of number of expected FP7 articles. Publishers' engagement and awareness will be key for encouraging the uptake of the APC fund.

Stakeholder engagement
The work and outcomes of the pilot will be promoted widely to institutions and funders so that they may provide input into and reutilize the policies and workflows developed in the pilot. Early on in the pilot a workshop to raise awareness of the pilot and to gather feedback will be held at the LIBER conference.

Deliverables
D5.1 Article policy/specifications guidelines [UCL, R, M3]
D5.2 First periodic report on APC uptake and metrics [LIBER, R, M14]
D5.3 Market/Economic impact study [LIBER, R, M26]
D5.4 Second periodic report on APC uptake and metrics [LIBER, R, M28]
D5.6 Roadmap for a sustainable and competitive market for open access publishing [LIBER, R, M32]

Milestones
M5.1 APCs workflow mapping [M3]
M5.2 Launch of APC pilot [M4]
M5.3 Information packs for NOADs and publisher [M4]
M5.4 Assessment of uptake and priority check [M14]
M5.5 Workshop on sustainable open access publishing [M30]

Table 9 - 33: OpenAIRE Platform Operation and Maintenance

Work package number	6		Start Date or Starting Event		M1	
Work package title	OpenAIRE Platform Operation and Maintenance					
Participant number	3	4	5	6	7	15	33
Short name of participant	CNR	ICM	CERN	ARC	UNIBI	UvA	EKT
Person/months per participant:	50	47	5	21	22	1	2

Objectives

The WP will continue and enhance the current maintenance and operation activities underlying the OpenAIRE infrastructures. In particular it will focus on: (a) coordinating the life-cycle of the software underlying the OpenAIRE infrastructure and Zenodo, (b) careful planning of the production infrastructure releases, (c) ensuring 24x7 operation of both systems, (d) guaranteeing constant population and publishing of a high quality aggregated Information Space, ανδ , and (e) data management planning according to the H2020 Data Pilot.

Description of work

Task 6.1: Infrastructure maintenance
Leader: ICM. Participants: CERN, CNR, ARC

ICM and CERN will support the continuous operation of the OpenAIRE infrastructure and the Zenodo repository according to procedures ensuring maximal system uptime and availability. Continuing the current activities, both systems will be deployed in professional data centre environments capable of guaranteeing their robust operation. In particular, the OpenAIRE infrastructure will benefit from the agreed-on and tested administration policies developed during the past project OpenAIREplus, which establish the rules of seamless deployment of new software releases in production and thus ensure a robust and controlled production system. The task covers activities of system administration, monitoring (e.g. routine and emergency maintenance procedures, and system security, availability and data integrity), software deployment (OpenAIRE packages for new releases and updgrades), and master-slave replica deployment to address resilience to failures by service-level redundancy and software/content backup with restore procedures (ICM). It also includes the mandatory overtime activities (CNR, ARC, ICM, Fraunhofer IAIS) of software upgrades (OS, libraries, open source products) and service software refactoring (i.e. revision of existing implementation to match new requirements).

Task 6.2: Software lifecycle
Leader: CNR. Participants: ICM, ARC

CNR will provide tools for supporting software life-cycle and will be coordinating and supervising system release plans, from development to testing and final release in production. Such activities will continue on the same line of the OpenAIREplus project development, by establishing and enforcing distributed development policies, planning proper software releases, guaranteeing their successful delivery and intervening with centralized and coordinated corrective actions to overcome the obstacles and still achieve the expected results. Activities include: (a) administration of tools for software development, testing, and integration (SVN, TRAC, build system, etc); (b) administration of development, testing and integration infrastructures; (c) coordination activities to facilitate software integration and respect software delivery deadlines and production release plans.

Task 6.3: Infrastructure operation: workflow management
Leader: CNR. Participants: ICM, UNIBI, ARC, EKT

The task focuses on the activities necessary to define, refine, configure, schedule, and monitor the infrastructure workflows necessary to combine OpenAIRE services to implement the phases of: (a) data source validation (including literature and data repositories and CRIS systems), registration, and collection, (b) de-duplication and inference over aggregated content, (c) publishing of Information Space via portal and export APIs.

Task 6.4: Infrastructure operation: Information Space curation and quality monitoring
Leader: UNIBI. Participants: CNR, ICM, CERN, ARC

The task includes "continuous" (over-time) data curation and validation activities of the OpenAIRE Information Space, and identification of quality processes as new developments are integrated in the infrastructure. Data curators (UNIBI) will define harmonization and validation mappings for OpenAIRE compatible data sources and make sure the quality of the resulting Information Space will be up to the quality measures. Activities include overtime fine-tuning of de-duplicaiton algorithms for publications, authors, and organizations and of inference algorithms (CNR, ICM, UoA). Monitoring and validation of Information Space quality will be possible thanks to tuning and reporting from the validator service (UoA), the certification of flows and dynamics via services to be developed in WP8-T8.4 (CNR), and both

automatic curation tools and careful manual curation intervention (UNIBI). The task includes metadata/file curation activities for the Zenodo repository (CERN).

Task 6.5: Infrastructure operation: legal and sustainable service provision to third-party services
Leader: ICM. Participants: CNR, ARC, CERN, UvA

The aim of the OpenAIRE infrastructure is to offer services to third-party services. To make this possible, the infrastructure needs to collect and export metadata and files by interacting with third-party providers. This task offers technological and legal support (i.e. API definition and SLA drafting) to approach third-party providers in a technologically sustainable and legal way. The definition of APIs will take into account existing interfaces defined in relevant communities (for example EuroCRIS/CERIF API). Activities include the establishment of legal frameworks for the provision of advanced services to all stakeholders involved (publishers, repositories, data archives, etc.) to enable metadata and file processing (e.g., mining, de-duplicating, classifying, clustering).

Task 6.6: Data management planning
Leader: ICM. Participants: CERN, CNR

The aim of this Task is to define, describe and implement the data management policies for OpenAIRE2020, as requested by the EC Data Pilot. At the core of the activities, ICM, CNR and CERN will draft a document addressing the management plan regarding adopted metadata and standards, data archiving and preservation, data sharing (i.e. access rights) regarding the OpenAIRE information space and the content of Zenodo. The document will be kept up-to-date to reflect possible policy changes due to ongoing evolution of project requirements.

Deliverables

D6.1 OpenAIRE specification and release plan**.** The deliverable will specify the release plan of the OpenAIRE services and their combination into workflows. It will be released in two issues, to plan the roadmap from the beginning of the project to the half of the project, and from there to the end. [CNR, Wiki, M2, updated at M24].

D6.2 Legal frameworks to enable data exchange. The deliverable will include use-cases of agreements (e.g. templates of SLA) with different categories of third-party services, including OpenAIRE data sources (e.g. repositories) and OpenAIRE service consumers. It will be an ongoing document, updated to support new third-party requirements. [R, ICM, M6, ongoing].

D6.3 Data management plan. The deliverable will specify the OpenAIRE2020 data management plan and policies [ICM, R, M6 ongoing]

D6.4 Maintenance report. The deliverable will consist in a high-level report on the status of OpenAIRE workflows (CNR), services (ICM), and Information Space (UNIBI). It will be released in two issues, to offer the picture of the system at half of the project lifetime and in the end. [ICM, Wiki, M21 updated at M42].

Milestones

M6.1 Production release 1. The release will incorporate all services that are production ready by M12 [M14]

M6.2 Production release 2. The release will incorporate all services that are production ready by M24 [M26]

M6.3 Production release 3. The release will incorporate all services that are production ready by M36 [M38]

Table 10 - WP7: Scholarly Communication R&D

Work package number		7		Start Date or Starting Event				M1		
Work package title		Scholarly Communication R&D								
Participant number		1	**2**	3	4	15	16	17	18	21	22	31
Short name of participant		UoA	**UGOE**	CNR	ICM	UvA	EMBL	UniHB	SURF	DANS	TU DELFT	COUP ERIN
Person/months per participant:		6	**14**	7	3	6	13	14	12	3	3	5

Objectives

In order to meet the needs of the changing scholarly communication landscape, two principal issues need to be addressed: research datasets should play a fundamental role, to be published, shared, to be rewarded for doing so, and reused within the correct legal parameters. Secondly, measuring the impact OA has on the research process is critical. This task will investigate and propose solutions, i.e., studies and prototypes for both issues. It will identify disciplinary and cross-disciplinary standards for data citation and data impact factors, and develop prototypes to collate and resolve links between literature and datasets obtained from data centres and publishers. In addition, it will analyse legal issues within the context of the EC's Open Research Data Pilot, as well as explore indicators for measuring the impact of Open Access across Europe.

Description of work

Task 7.1: Legal issues in context of the Open Research Data Pilot
Leader: UGOE, Participants: UvA, ICM

In this study, legal barriers to data sharing in the context of the Open Research Data Pilot will be analysed. The study will focus on two legal issues which are of great relevance for the implementation of the Pilot; namely those of data protection law and public sector information (PSI). For the first issue, several privacy issues will be raised within the context of the Open Research Data Pilot and OpenAIRE. Different forms of protection of personal and sensitive data will be analysed (e.g. data protection/privacy law/confidentiality). It will be examined which data that is used and shared in an e-infrastructure such as OpenAIRE and the Open Research Data Pilot is covered by data protection rules and what consequences this has for the usage and sharing of those data. In order to assist the technical developments within OpenAIRE, legal principles for the sharing of personal and sensitive data will be developed and recommendations for legal and technical measures will be given. The second issue that will be analysed is that about public sector information. It will be evaluated, to what extend OpenAIRE and its partners, including the partners taking part in the Open Research Data Pilot, fall under obligations specified by EU and Member States for public-sector bodies (PSBs) on PSI with regard to access and re-use of this information, and what the exact consequences of those obligations are. The findings of this second subtask will show to what extent access and reuse of PSI is harmonised within the EU and how the regime of PSI influences the OpenAIRE Open Research Data Pilot. To illustrate the results, guidelines as to PSI and participating in the OpenAIRE Open Research Data Pilot will be prepared, for example when is it necessary/possible/useful to opt out of the Open Research Data Pilot.

Task 7.2: Measuring OA impact
Leader: SURF/Leiden Participants: UoA

This task will carry out one or more studies that will describe the multidimensional indicators of scholarly performance based on data retrieved by the OpenAIRE platform, which has linked databases on projects, publications, data, institutions, data providers and researchers. Analysis will include activity indicators, impact indicators and positional indicators. The task will investigate indicators for second level impact that link OA to possible social, cultural and economic impact (patents, EU stats, social media, web impact, etc.). In addition, it will:

- Explore the interaction between open access practices at the level of research groups and potential indicators of impact and quality (including strategic responses by the scientific community to new indicators).
- Explore which data sources should be the basis for OpenAIRE indicators.
- Define the core principles on which standards for OpenAIRE metrics for evaluation should be based.
- Define the principles on which an infrastructure of OpenAIRE indicators should be based.

Task 7.3: Literature-data integration
Leader: EMBL Participants: UniHB, DANS, CNR, UoA

In this task, DANS, PANGAEA (UniHB), and EMBL-EBI will engage with the OpenAIRE infrastructure towards consolidating a global data publishing and citation ecosystem, by experimenting with interlinking/integrating literature and

datasets in the public domain, using data citations as a basis. Studies (EBI, PANGAEA (UniHB),, DANS) will focus on (1) building requirements and standards that facilitate literature-data integration and (2) understanding the scope and extent of data citation within and across different disciplines (e.g. granularity, citation purposes). Such analysis will be performed by involving relevant communities in workshops and will serve as input to the development of prototypes: (1) A data citation interlinking service (PANGAEA (UniHB),, CNR, EBI, DANS) resolving cross-references between PIDs of datasets and PIDs of publications collected from publishers, data repositories (DANS, PANGAEA (UniHB),, and EMBL-EBI will serve as use-cases) and the OpenAIRE infrastructure; (2) Setting the basis for a global, open Data Citation Index Service, in order to study its implications and impact on different disciplines. Both demonstrators will be implemented as Open Source projects, in the context of the RDA/WDS Working Group Data Publication Services, with the cooperation of science publishers and further data centres, as appropriate. The resulting services will be hosted (mirrored) by a number of sites, including OpenAIRE and the ICSU WDS. Governance and maintenance of the service will be set up in a way that includes Open Access principles, where all relevant stakeholders (publishers, data centres, repositories/libraries, and added value service providers) contribute content and participate openly.

T7.4 Open review to literature and beyond
Leader: UGOE, Participants: COUPERIN, CNR

This task will carry out a landscape scan and evaluation of new forms of publishing and (open) peer review. It will consider various routes of publishing (formal and informal) as well as types of publications (journal articles, monographs, proceedings, etc.). In particular, it will describe and classify new forms of peer review mechanisms (workflows, quality assurance, community involvement, benefits for authors and reviewers, integration with open access e-Infrastructures, etc.). Information will be gathered through literature research and a survey involving research communities, publishers, innovative projects, etc. As a prototype for the Humanities and Social Sciences, hypotheses.org, a platform hosting academic blogs, will carry out experiments to model the workflow from blog articles (original articles, reviews about publications, case studies, etc.) for the selection, review and revision of these articles towards peer reviewed publications (journal articles and edited books). Two additional prototypes in the area of open peer review will be carried out and evaluated (tender call M4, award of tender in M6, delivery of results M12). It is foreseen that the results of the study will be published in a similar fashion, with open review based on the facilities provided by the prototypes.

Deliverables

D7.1 Open Review: tender call evaluation report [UGOE, R, M6]

D7.2 Analysis of OpenAIRE indicators. It will include an overview of possible OpenAIRE indicators and their data sources, their validity and reliability, and the selected ones as "OpenAIRE Indicators of Scholarly Performance" [SURF, R, M12]

D7.3. Governance and requirements of interlinking service. Deliverable reporting of the outcome of the workshops in M7.4.1. [UniHB, R, M15].

D7.4 Novel models for open peer review [UGOE, R, M15]

D7.5 Data citation standards and index requirements. Deliverable reporting of the outcome of the workshops in M7.4.2 [EMBL, R, M15].

D7.6 The Open Research Data Pilot: Personal Data and PSI Rules. Reporting investigating legal barriers in the context of the Open Research Data Pilot [UGOE, R, M20]

Milestones

M7.1 First Workshop on "Governance and requirements of interlinking service". The workshops aims at putting together the main stakeholders in this task (data centres and publishers) to identify common requirements and agreements on how to govern and realize the data-literature interlinking service. Outcomes of the workshops will be input to D7.4.1. [M7]

M7.2 First Workshop on "Data citation standards and index requirements". The workshops aim at putting together the main stakeholders in this task (data centres and publishers) to identify common requirements and agreements on how to standardize data citation formats and build a data citation index. Outcomes of the workshops will be input to D7.4.2. [M7]

M7.3 Peer review model based on blogging platform [M12]

M7.4 Two prototypes and proofs of concept for open peer review [M12]

M7.5 Second Workshop on "Governance and requirements of interlinking service" [M13]

M7.6 Second Workshop on "Data citation standards and index requirements" [M13]

M7.7 Data-literature interlinking service prototype. [M24]

M7.8 Data citation standards and index. Delivery of software is optional and depends on the result of the studies. Alternatively XML schemas (or DTD) will be produced [M24].

Table 11 - WP8: Information Space maintenance and extension

Work package number	8			Start Date or Starting Event			M1				
Work package title	Information Space maintenance and extension										
Participant number	3	4	5	6	7	8	18	19	21	31	33
Short name of participant	CNR	ICM	CERN	ARC	UNIBI	UMINHO	UBONN	Jisc	DANS	COUPERIN	EKT
Person/months per participant:	30	1	2	22	20	6	15	3		2	5

Objectives

The WP focuses on several OpenAIRE Information Space management activities. The Information Space data model will adapt its structure/semantics to support the realization of new OpenAIRE services on project course. Moreover, services and policies will be devised in order to: (a) support WP6 Information Space monitoring activities with transparent monitoring and certification of data flows and dynamics, (b) collect/aggregate new kind of content (National funding schemes and data source usage statistics), and (c) export/import of content in the form of Linked Open Data.

Description of work

Task 8.1: OpenAIRE data model maintenance
Leader: CNR. Participants: ARC, ICM, UNIBI, CERN, EKT

The OpenAIRE information space data model will be adapted to support the new back-end, front-end and knowledge extraction services. The changes will be collected and applied overtime as a consequence of the design and development of the services, and will be tracked on an ongoing deliverable, open to the public. Envisaged changes will regard: (a) the integration of publication licenses (ROMEO services), (b) description and interlinking with software entities, (c) modeling of annotations (Open Annotation Model), (d) features of data pilot plans associated to projects, (e) alignment of multiple author identifier schemes (e.g. ORCID, GoogleScholarID), (f) alignment with updates in new releases of the CERIF data model, and many more. CNR will be responsible for the collection of data model update requests, check for their applicability, and, when accepted, communicate the impact of such changes to other services.

Task 8.2: LOD services
Leader: UBONN. Participants: ARC, CNR

As a result of this task OpenAIRE will increase its technical interoperability, engage with additional user communities and explore synergies with and added value to related open content initiatives (e.g. in the Open Educational Resources). The Services will be deployed by UBONN/ARC in order to map all metadata objects in the OpenAIRE Information Space onto suitable standard vocabularies (e.g. Dublin Core, SIOC, EDM, CERIF LD) and made available as Linked Open Data as data dumps being published in regular intervals with more frequently published incremental updates. UBONN with ARC will (a) operate the interlinking between OpenAIRE LOD objects with other Linked Data resources such as DBLP, ACM, Citeseer DBpedia, and (b) liaise with all relevant communities (PSI, DBpedia, LOD, W3C SWEO etc.) to leverage and outreach to additional stakeholders and multipliers. CNR will provide technical support for synchronizing content of the OpenAIRE Information Space with LOD services and vice versa, in the case content can be moved from enriched LOD representation to the OpenAIRE Information Space.

Task 8.3: Research Impact Services
Leader: ARC. Participants: CNR

The task will focus on the realization of general-purpose services for measurement of research impact w.r.t. a "research initiative". Such services will identify relationships between publications/datasets and a given "research initiative" (e.g. research infrastructures) by offering: (i) inference by mining functionality and (ii) end-user claim functionality (i.e. end-users declare links). Services will also offer UIs for visualizing statistics and measuring research impact over time. As a use-case, the task will focus on the development of pilots with selected National funding agencies (e.g. NWO, DFG, NCBR) and infrastructure initiatives (e.g. EGI, PRACE) in order to serve them with the OpenAIRE research impact suit of services. ARC and CNR will: (a) select funding agencies with the help of the NOADs, (b) offer technical support for interoperability with funding agencies data sources in order to collect project information from them, and (c) identify the data model changes required to support the integration.

Task 8.4: Data flows and dynamics monitoring services
Leader: CNR. Participants: UNIBI

These services will be used to monitor overtime all data flows in the OpenAIRE infrastructure, in order to verify the expected quality of a newer version of the Information Space before making it available to the public via portal and APIs. To this aim, the services will evaluate and certificate data flows and dynamics over time, since the last Information Space

was released. Examples of Information Space certification elements may regard "Expected Information Space variance": e.g. the percentage of OA vs non-OA material should not exceed a given ratio; the number of inferred relationships can increase but should not have down-peaks of 10% with respect to previous status; different harvestings of the same data sources should increase in the number of collected objects. Data curators will be able to: (a) configure the services to verify specific data flows and dynamics w.r.t. given measures and thresholds, (b) be consequently notified of misbehaviors or technical issues in order to fix them or, if tolerable, publish the Information Space as is; (c) have access to an history of "status certificates" of current and past Information Spaces. Data curators will also be able to configure and follow the overall monitoring activities via user interfaces, which will offer a graphical representation of the activities. CNR will be in charge of the design and development of the service, while UNIBI will serve the requirements of data curators.

Task 8.5: Usage Statistic Services
Leader: UNIBI. Participants: ARC, UMINHO, COUPERIN, Jisc

This task has the twofold aim of: (a) *Aligning policies and standards*: allowing data sources used for research dissemination (e.g. publication and data repositories, CRIS systems) to align their policies and share standards for gathering and sharing usage data and stats, (b) *Collecting and analyzing usage data to produce metrics*: realizing OpenAIRE infrastructure workflows and services to aggregate usage data and stats from heterogeneous data sources, investigate usage data metrics, and integrate usage statistics in the OpenAIRE portal. *Studies include*: guidelines for exporting usage data and stats (ARC, UMINHO, Jisc); legal frameworks for usage data sharing (Jisc, UMINHO); examining aggregated usage data in the light of established metrics (e.g., citation analysis); study and integrate alternative types of usage data related to researcher social behavior (altmetrics). *Developments include*: tools for repository platforms (e.g. DSpace) to export/import usage data (UMINHO); large-scale analytics infrastructural services to process the aggregated data (ARC, UNIBI); APIs (ARC, UNIBI) so that different providers can study, pilot and produce different types of metrics.

Deliverables

D8.1 OpenAIRE data model. The deliverable will keep a public description of the last valid version of the data model and track the history of all data model changes. It will "freeze" its status, i.e. not accepting new changes, six months before the three main releases. [CNR, Wiki, M4]

D8.2 LOD Services. The deliverable will describe the technical deployment of LOD services, together with their integration with the OpenAIRE information space, in terms of data (mappings from OpenAIRE data model to LOD structure and standard vocabularies) and workflows. [UBONN, R, M6]

D8.3 Research impact services. The deliverable will describe the nature of the data of the identified National funding agencies, as well as their export technologies, and provide the specification of the general-purpose OpenAIRE services required to support research impact measurements [ARC, R, M7].

D8.4 Data flows and dynamics monitoring services. The deliverable will sketch the functional requirements of the services and the intended internal architecture [CNR, R, M9].

D8.5 Usage statistics services. The deliverable will include the results of the studies, identify the use cases, and provide a specification of the intended technical solution for consuming (usge data provider and OpenAIRE side) and enable re-use by 3rd party service providers [UNIBI, R, M24]

Milestones

M8.1 LOD services. The service software will be released in three stages, in order to match the three main releases of the OpenAIRE data model. [M12, M24, M36]

M8.2 Research impact services. [M12, M24, M36]

M8.3 Data flows and dynamics monitoring services. [M12, M24, M36]

M8.4 Usage statistics services. [M36]

Table 12 - WP9: Front-end Services

Work package number	9		Start Date or Starting Event			M1	
Work package title	Front-end Services						
Participant number	2	4	5	**6**	7	8	19	31
Short name of participant	CNR	ICM	CERN	**ARC**	UNIBI	UMINHO	Jisc	COUPERIN
Person/months per participant:	17	1	14.5	**37**	4	4	3	2

Objectives

The WP focuses on the front end services, which are delivered in a variety of ways to the end users: the portal access for search/browse, authentication and authorization; services to provide reporting, statistics and advanced visualization of the underlying information space; anonymization services to assist in the Open Research Data Pilot; brokering services to allow the exchange of new or enriched metadata among repositories. For these, existing mechanisms will be consolidated, adapted to the extended OpenAIRE data model and the new functionalities. In addition, this WP will provide the placeholders (tenders and hackatons for innovative services) to drive the effort of engaging 3rd party providers (SMEs, young innovators) to build novel useful end-user services and increase the infrastructure uptake.

Description of work

Task 9.1: OpenAIRE portal and services
Leader: ARC

The OpenAIRE portal will be enriched with a number of services that will allow better utilization of the underlying (harvested, cleaned, inferred, interlinked) information space. These services will enhance the existing multi-faceted and dynamic access (search and browse) to support queries on the new extensions of the data model (software, publisher/journal info, metrics) and the new knowledge inferred from WP10. It will improve the depositing and claiming processes with links to new infrastructures (e.g., PSI) and registries. It will provide recommendations based on similar documents and usage data. It will integrate authentication and authorization mechanisms to serve the end user researchers (ORCID, LinkedIn) and link to the European AAI infrastructure (EduGain). It will consolidate and enhance the end user alert and notification services to adapt on specific H2020 programmes and needs. Based on the Annotation Service developed in the OpenAIREplus it will create personal spaces with the "MyProjects" functionality.

Task 9.2: Statistics, reporting and visualization services
Leader: ARC

This task will enhance the tool that allows privileged users to design and deliver on-demand statistics and reports. The service will be expanded to incorporate new data types from the extended data model and new graphic layouts. An advanced, interactive visualization service will be developed to showcase the results of the knowledge extraction processes in WP10, i.e., directed graphs of networks and structure (citations, authors) over topic, space and time.

Task 9.3: Catch-all data pilot Services: Zenodo
Leader: CERN

This task will deliver data repository services that are capable of satisfying the needs of the Horizon2020 data pilot, through provision of Zenodo. Any researcher without an appropriate community data repository can therefore rely on the Zenodo service to share and preserve any data from the EU funded programmes. This task will extend the Zenodo current service to support the broad range of data publishing initiatives in OpenAIRE2020 making it an appropriate testbed for communities to try out these concepts. This includes data linking, data citation, and anonymized data, and the closely related services for software description and preservation. An important aspect of the service to be developed is the establishment of connections with other data repositories for data export and exchange. In addition, the current service will be extended to align with emerging norms for uniquely identifying researchers, funders and other relevant entities.

Task 9.4: Open Access publication broker Service
Leader: CNR Participants: ARC, Jisc, UNIBI, UMINHO, COUPERIN

This task will design and develop an Open Access Publications Broker Service, which will notify interested (subscribed) repositories and CRIS systems of publication metadata information available in OpenAIRE. This information may range from (i) Open Access status: e.g., full open access, embargo date, etc., (ii) Inferred information: e.g., project funding, data and publication citations and similarities, download statistics, impact measures, etc. and (iii) Standard bibliographic fields: e.g., persistent identifiers (e.g. DOIs), publication type, link to files.

The service will be designed and developed by CNR, with the technical support of ARC and the input from JISC, UNIBI,

MINHO, and COUPERIN. It will identify metadata records of publications that are (potentially) of interest to subscribed repositories and CRIS systems and send the records to the repository and CRIS managers who will then be able to (i) complete their metadata records with information they have not collected from their users, or (ii) collect metadata records they are still missing. A range of subscription/notification strategies will be followed so as to provide a flexible and efficient service, while a Dashboard application will be designed and developed for monitoring the results. This effort will be aligned with the UK Repository Junction Broker and the US-SHARE Notification service initiative.

Task 9.5: OpenAIRE 3rd-party applications
Leader: ARC Participants: CNR, ICM

The OpenAIRE infrastructure opens up its content and services via several APIs in order to foster and facilitate the realization of applications by third-party service providers and/or young innovators. This task will offer the logistics and technical support required to develop such applications with special focus on innovative ideas improving the uptake of the OpenAIRE infrastructure or the cause of Open Access. Such applications may cover a wide range of aspects, such as linking OpenAIRE content to external content, researcher social networks, mobile applications. This process will be favoured by two tenders and three hackatons on specific "application areas", to be defined by ARC, CNR and ARC. These partners will form a committee in charge of defining the rules, advertising, and evaluating the results of such competitions. The OpenAIRE portal will be enriched with a static page, pointing to all applications using the OpenAIRE APIs.

Task 9.6: Data Anonymization Services
Leader: ARC

This task will develop two services to be publicly available to research communities and assist them in the Open Research Data Pilot: (i) an anonymization service for microdata that will allow scientists who wish to publish their data to do so without endangering the anonymity of the data sources, and (ii) a safety mechanism that will detect multiple publications of the same dataset and will prevent publishers from sharing the dataset using inconsistent privacy guarantees.

Deliverables
D9.1 OpenAIRE portal services. Functional and design specifications related to the enhancement of the existing and the creation of the new services. [ARC, R, M6] updated before the main releases M18, M30.
D9.2 Statistics, reporting and visualization services. Functional and design specifications of the reporting and advanced visualization services. [ARC, R, M8] updated before the main releases M18, M30.
D9.3 Zenodo services. Zenodo Advanced Services specification. [CERN, R, M6] updated before the main releases M18, M30.
D9.4 OA Repository Broker Services. Functional and Technical specification of the OA Repository Broker service [CNR, R, M12]
D9.5 Tender and hackatons. The document will define the application domains subject of the tenders and hackatons and the selection guidelines [ARC, website, M12].
D9.6 Anonymization services. Functional and technical specification of the service [ARC, R, M18].
D9.7 Innovative Services report. Report of OpenAIRE uptake and novel services [ARC, R, M40].

Milestones
M9.1 OpenAIRE portal services. [M12, M24, M36]
M9.2 Statistics, reporting and visualization services. [M12, M24, M36]
M9.3 Zenodo services. [M12, M24, M36]
M9.4 Tender application deadline and selection [M17]
M9.5 First hackaton [M24]
M9.6 Anonymization services. [M24]
M9.7 Innovative services demonstration [M29]
M9.8 OA Repository Broker Service. [M36]
M9.9 Second hackaton [M36]

Table 13 - WP10: Knowledge Extraction Services

Work package number	10			Start Date or Starting Event			M1
Work package title	Knowledge Extraction Services						
Participant number	3	4	6				
Short name of participant	CNR	ICM	ARC				
Person/months per participant:	6	25	34				

Objectives

The WP focuses on text mining services to produce the extra knowledge facilitating an interlinked scholarly communication space. It will expand the existing services of extracting information from scientific publications or metadata of datasets through a series of activities: extract project information from H2020 and all affiliated funders; solidify the author-organization affiliations; identify data citations in a variety of disciplines/types; apply cross-language techniques to see how regional research fits into the overall European picture. It will move beyond the extraction to the mapping and analysis phase in order to extract knowledge of how OA and scholarly communication can represent the structuring effect on specific research areas, lasting effects of networks or the creation of scientific societies or structures. It will do this across Europe in geographic, in selected disciplines terms over time. All services and produced knowledge will be offered to 3rd party service providers for further use.

Description of work

Task 10.1: IIS workflow management
Leader: ICM Participants: CNR, ARC

This task further enhances the Information Inference Service (IIS) initially developed in OpenAIREplus, a flexible framework for large-scale information processing. It will integrate enhanced resource management tools for efficient workflow execution and provide support for so-called "training workflows" for automated, periodic calibration of machine learning algorithms. It will develop a visual workflow editor for the administration of the IIS components. It will accommodate changes and enhancements of the OpenAIRE data model in WP8, and will improve the result feedback processes to the production system.

Task 10.2: Classification and clustering
Leader: ARC

The existing supervised classification and visualization modules, trained on a wide range of categorizations, will be modified and applied on large datasets of publications, taking into consideration the temporal process of the content-analytics results. The unsupervised mechanisms (topic modelling) will be integrated in the IIS and will be enhanced for spatiotemporal modelling for trend analysis over the years, or among different countries; semi supervised analysis based on topic modelling will analyze incorporating labelled and structured information in topic modelling (e.g., pdb codes, MeshTerms, ACM classification etc.). Cross-language techniques will be introduced and applied on the above mechanisms publications in regional repositories and OA journals.

Task 10.3: Entity resolution and linking
Leader: ICM Participants: ARC

This task will develop state-of-the-art methods for extracting information from individual publications. It will include further calibration of existing metadata extraction tools (CERMINE) and will extend them with capabilities, for author-organization affiliation parsing. It will include: domain-specific concept mining (gene symbols, chemicals, organisms), citation sentiment analysis using the CiTO ontology for the next generation of metrics, and rudimentary narrative pattern analysis (structure of a document, e.g. for classification purposes). Enhancement to introduce linking publications with software and data repositories (BioMedBridges, GitHub, Zenodo, PSI datasets). This task will also develop vocabularies and ontologies for representing information extracted in those tasks in semantic formats. Results of this task will allow to share and distribute information about scholarly communication maintaining high level of interoperability with existing and projected systems.

Task 10.4: Scholarly communication network analysis
Leader: ARC Participants: ICM

Based on the information extracted on T10.2 and T10.3 (citations and classification/clustering) this task will focus on the creation of a comprehensive map of relations in the academia between people (e.g., open citation index, co-authorship network), institutions, publications, funding sources, topics, data sets, software, etc. It will create knowledge networks based on discipline, time, location to identify structuring effects on specific research areas (e.g., health:diabetes), lasting

effects of networks, creation of scientific societies or structures. It will employ advanced graph mining algorithms (e.g., PageRank) to provide deeper insight to the analysis. For known author-organization affiliations, the publication topic-author network will be further mapped to the European member states and map the organization involvement and interconnection. These tools will be used by experts in specific research fields to analyse and evaluate scientific quality and assess the long-term impact.

Deliverables

D10.1 Visual workflow editor. The deliverable will describe the design, implementation, rationale and main functionalities of the visual editor for IIS workflows [ICM, R, M8].

D10.2 Clustering algorithms. This deliverable will describe clustering algorithms for scholarly content, their implementation and performance and will report on the outcomes. [ARC, R, M18].

D10.3 Entity resolution algorithms. This deliverable will document entity resolution algorithms for scholarly publications and other research artifacts, their implementation and performance and will report on the outcomes [ICM, R, M18].

D10.4 Training workflows. This deliverable will document efforts to automate training of machine learning algorithms, describing the architecture and implementation of training workflows in IIS [ICM, R, M30].

D10.5 Map of academic relations. This deliverable will document the creation of a comprehensive map of relations in academia, available as a downloadable RDF resource, and describe results of scientometric analyses performed on the dataset [ARC, R, M40].

Milestones

M10.1 Visual workflow editor [M12]

M10.2 Clustering algorithms. [M24]

M10.3 Entity resolution algorithms. [M24]

M10.4 Training workflows. [M36]

M10.5 Map of academic relations. [M40]

Table 14. List of work packages

WP No	Work Package Title	Lead Participant No	Lead Participant Short Name	Person-Months	Start Month	End month
1	Coordination and Exploitation	1	UoA	51	1	42
2	Outreach and Dissemination	2	UGOE	176	1	42
3	International Alignment	12	COAR	61	1	42
4	Support and Training	8	UMINHO	281	1	42
5	Gold OA: FP7 post grant APCs Pilot	13	LIBER	60	1	28
6	Operation and Maintenance	4	ICM	148	1	42
7	Scholarly Communication R&D	2	UGOE	86	1	24
8	Information Space maintenance and extension	3	CNR	109	1	42
9	Front-end Services	6	ARC	82.5	1	42
10	Knowledge Extraction Services	4	ICM	65	1	42
				1119.5		

Table 15 - List of Deliverables

Del No	Deliverable name	WP No	Short name of lead participant	Type	Dissem ination level	Delivery date
D1.1	Project quality plan	WP1	UoA	R	CO	M2
D6.1	OpenAIRE specification and release plan.	WP6	CNR	O	PU	M2
D2.1	Dissemination Roadmap	WP2	UGOE	R	PU	M3
D3.1	Liaison Strategy: a strategy on OpenAIRE's international liaison	WP3	UGOE	R	PU	M3
D4.1	Helpdesk System Toolkit. Toolkit with operation instructions on how to use the OpenAIRE online helpdesk system.	WP4	UMINHO	R	PU	M3
D5.1	Article policy/specifications guidelines	WP5	UCL	R	PU	M3
D8.1	OpenAIRE data model	WP8	CNR	O	PU	M4
D6.2	Legal frameworks to enable data exchange	WP6	ICM	R	PU	M6
D6.3	Data management plan.	WP6	ICM	R	PU	M6
D7.1	Open Review: tender call evaluation report	WP7	UGOE	R	PU	M6
D8.2	LOD Services	WP8	UBONN	R	PU	M6
D9.1	OpenAIRE portal services.	WP9	ARC	R	PU	M6
D9.3	Zenodo services	WP9	CERN	R	PU	M6
D1.2	Goals and strategy of legal entity. OpenAIRE requirements via existing governance models.	WP1	UoA	R	CO	M7
D8.3	Research impact services	WP8	ARC	R	PU	M7
D4.2	Support kit for OA policy in H2020. Set of materials, FAQs, briefing papers, webinar recordings	WP4	EIFL	R	PU	M8
D9.2	Statistics, reporting and visualization services	WP9	ARC	R	PU	M8
D10.1	Visual workflow editor	WP10	ICM	R	PU	M8
D8.4	Data flows and dynamics monitoring services	WP8	CNR	R	PU	M9
D4.3	Support kit for Open Research Data Pilot. Set of materials, FAQs, briefing papers, webinar recordings	WP4	DANS	R	PU	M10
D1.3	Progress report	WP1	UoA	R	CO	M12
D1.4	Governance model for OpenAIRE legal entity	WP1	UoA	R	PU	M12
D7.2	Analysis of OpenAIRE indicators	WP7	SURF	R	PU	M12
D9.4	OA Repository Broker Services	WP9	CNR	R	PU	M12
D9.5	Tender and hackatons	WP9	ARC	R	O	M12
D5.2	First periodic report on APC uptake and metrics	WP5	LIBER	R	PU	M14
D7.3	Governance and requirements of interlinking service.	WP7	UniHB	R	PU	M15
D7.4	Novel models for open peer review	WP7	UGOE	R	PU	M15
D7.5	Data citation standards and index requirements.	WP7	EMBL	R	PU	M15
D3.2	Report of current state and roadmap for implementation of guidelines in Latin America	WP3	CLARA	R	PU	M16
D9.6	Anonymization services	WP9	ARC	R	PU	M18
D10.2	Clustering algorithms.	WP10	ARC	R	PU	M18
D10.3	Entity resolution algorithms	WP10	ICM	R	PU	M18
D3.3	Report on current state of repository alignment globally and roadmap	WP3	COAR	R	PU	M20
D7.6	The Open Research Data Pilot: Personal Data and PSI Rules.	WP7	UGOE	R	PU	M20
D6.4	Maintenance report.	WP3	ICM	R	PU	M21
D1.5	Progress report	WP1	UoA	R	CO	M24

Del No	Deliverable name	WP No	Short name of lead participant	Type	Dissem ination level	Delivery date
D8.5	Usage statistics services	WP8	UNIBI	R	PU	M24
D5.3	Market/Economic impact study	WP5	LIBER	R	PU	M26
D5.4	Second periodic report on APC uptake and metrics	WP5	LIBER	R	PU	M28
D3.4	Final report of implementation status in Latin America	WP3	CARA	R	PU	M30
D10.4	Training workflows	WP10	ICM	R	PU	M30
D5.6	Roadmap for a sustainable and competitive market for open access publishing	WP5	LIBER	R	PU	M32
D1.6	Progress report	WP1	UoA	R	CO	M36
D3.5	Status report "Assessment of priorities for international alignment"	WP3	COAR	R	PU	M38
D2.2	National Workshops: lessons learned – A summary of the national NOAD workshops and their impact at national and European level	WP2	UGOE	R	PU	M40
D4.4	Helpdesk Operation Report. Detailed report of the Helpdesk online system operation	WP4	UMINHO	R	PU	M40
D4.5	Training Programme Report	WP4	EIFL	R	PU	M40
D9.7	Innovative Services report	WP9	ARC	R	PU	M40
D10.5	Map of academic relations	WP10	ARC	R	PU	M40
D1.7	Final progress report	WP1	UoA	R	CO	M42
D1.8	Detailed Activity Report	WP1	UoA	R	CO	M42

Table 16 - List of Milestones

MS No	Milestone name	Related wps	Estimated date	Means of verification
M5.1	APCs workflow mapping	WP5	M3	Report
M5.2	Launch of APC pilot	WP5	M4	System running
M5.3	Information packs for NOADs and publisher	WP5	M4	Information on the OpenAIRE portal
M4.1	NOAD's Programme Plan Completion	WP4	M5	Published in internal OpenAIRE Wiki
M4.2	Training calendar for all stakeholders	WP4	M5	Published in internal OpenAIRE Wiki
M2.1	Dissemination Kit	WP2	M6	Sets of materials that target relevant stakeholders
M3.1	High-Level Consultation Meeting of Repository Networks	WP3	M7	Report and press release
M7.1	First Workshop on "Governance and requirements of interlinking service".	WP7	M7	Report and press release
M7.2	First Workshop on "Data citation standards and index requirements"	WP7	M7	Report and press release
M2.2	Workshop: *"Innovative publishing models to support open science"*	WP2	M10	Public recording and one-page report
M1.1	Legal entity establishment	WP1	M12	Legal paperwork
M3.2	Promotional Workshop/Consultation for Latin-American region	WP3	M12	Report and press release
M4.3	Guidelines Update 1	WP4	M12	Public on guidelines.openaire.eu
M7.3	Peer review model based on blogging platform	WP7	M12	Report and public release of platform
M7.4	Two prototypes and proofs of concept for open peer review	WP7	M12	Public release of platform
M8.1	LOD services	WP8	M12, M24,M36	Component to be integrated into public release at M14, M26, M38

MS No	Milestone name	Related wps	Estimated date	Means of verification
M8.2	Research impact services	WP8	M12, M24,M36	Component to be integrated into public release at M14, M26, M38
M8.3	Data flows and dynamics monitoring services	WP8	M12, M24,M36	Component to be integrated into public release at M14, M26, M38
M9.1	OpenAIRE portal services	WP9	M12, M24,M36	Component to be integrated into public release at M14, M26, M38
M9.2	Statistics, reporting and visualization services	WP9	M12, M24,M36	Component to be integrated into public release at M14, M26, M38
M10.1	Visual workflow editor	WP10	M12	Software release
M7.5	Second Workshop on "Governance and requirements of interlinking service"	WP7	M13	Report and press release
M7.6	Second Workshop on "Data citation standards and index requirements"	WP7	M13	Report and press release
M5.4	Assessment of uptake and priority check	WP5	M14	Internal report
M6.1	Production release 1	WP6 - WP10	M14	Public release on the OpenAIRE portal.
M9.4	Tender application deadline and selection	WP9	M17	Internal report
M2.3	Workshop: *"Legal issues in the context of the Open Research Data Pilot"*	WP2	M18	Public recording and one-page report
M3.3	Deployment of OpenAIRE validator to assess levels of adoption of guidelines	WP3	M24	Web public release
M7.7	Data-literature interlinking service prototype	WP7	M24	Web public release
M7.8	Data citation standards and index.	WP7	M24	XML schemas (or DTD)
M9.5	First hackaton	WP9	M24	Public event
M9.6	Anonymization services	WP9	M24	Component to be integrated into public release at M26
M10.2	Clustering algorithms	WP10	M24	Component to be integrated into public release at M26
M2.4	Workshop: *"Sharing research data and data publishing practices"*	WP2	M26	Public recording and one-page report
M6.2	Production release 2	WP6 - WP10	M26	Public release on the OpenAIRE portal.
M10.3	Entity resolution algorithms		M26	M26
M3.4	Implementation Workshop with practitioners and global stakeholders	WP3	M29	Report, press release, video recordings
M9.7	Innovative services demonstration	WP9	M29	Demonstrators
M5.5	Workshop on sustainable open access publishing	WP5	M30	Public recording and one-page report
M2.5	Workshop: *"Measuring OA impact"*	WP2	M34	Public recording and one-page report
M4.4	Guidelines Update 2	WP4	M36	Public on guidelines.openaire.eu
M8.4	Usage statistics services	WP8	M36	Component to be integrated into public release at M38
M9.9	Second hackaton	WP9	M36	Public event
M9.8	OA Repository Broker Service.	WP9	M36	Component to be integrated into public release at M38
M10.4	Training workflows	WP10	M36	Internal report
M6.3	Production release 3	WP6 - WP10	M38	Public release on the OpenAIRE portal.
M2.6	Workshop: *"Text and Data Mining on scientific publications"*	WP2	M40	Report, press release, video recordings
M10.5	Map of academic relations	WP10	M40	Visualization maps/tools
M3.5	Final International Repository Alignment Wrksp.	WP3	M41	Report, press release, video recordings

3.2 Management structure and procedures

The management structure of OpenAIRE2020 has been designed to address the challenges and problems associated with a pan-European outreach project that involves a large number of partners, of different types, targeting a broad range of stakeholders. More specifically, OpenAIRE2020 involves a set of core partners (covering both technical and networking aspects) that form a cohesive and well-tuned group that has driven the OpenAIRE (and then DRIVER) activities since 2005, a set of new partners that are assigned with specific targeted activities adding value added services and interactions, and a broad spectrum of partners from the 33 member or affiliated European states that are essentially the ambassadors of the H2020 Open Access policies and OpenAIRE's services.

The overall organization structure is the same as in the past OpenAIRE projects, with three coordination areas:

Overall coordination supervises all activities in the project: performs administrative tasks (contact point with the Commission regarding all administrative and financial processes), provides high level supervision of the project activities including how all major technical decisions are to be implemented, to provide recommendations for improving the project's efficiency, funding policies, amendments work-plan and implementation, and proposes and approves resolutions of critical issues and conflicts. Ensures management efficiency through coordination (technical and networking) activities and oversees quality control of all processes. The coordination is assigned to Mike Chatzopoulos from the University of Athens (assisted by Yannis Ioannidis).

Scientific coordination addresses the OA policy issues and their implementation, and manages the NOAD network. It co-ordinates the interaction of the OpenAIRE consortium with senior decision makers in research institutions, who are responsible for policy development in the national environment. The networking organizational structure established in the past OpenAIRE projects continues in OpenAIRE2020: the networking officer coordinated the four regional networking managers and guides all NOADs activities. The scientific coordination is assigned to Norbert Lossau from the University of Goettingen.

Technical coordination oversees all technical activities and ensures the maintenance and operation of the technical infrastructure. It brings together and supervises the project's technical teams and provides the communication tools for seamless team cooperation. It mediates between technical and non-technical partners to enable patterns of communication and modulates the flow of information within the JRA partners, to make sure software realization respects the scheduled plans. Technical coordination is assigned to Donatella Castelli from the CNR-ISTI.

The coordination partners have extensive experience in managing a consortium of this type and size, while the management team has significant experience in collaborative activities from working together in the DRIVER, DRIVER II and OpenAIRE projects, guaranteeing a reliable management that leads to the intended results.

3.2.1 Management structure

The OpenAIRE2020 management structure is composed of two areas, *decision-making* and *operations*, aided by an advisory board. Due to the large number of partners, their scope and type of participation, they are categorized into three groups (Figure 3), which is reflected in the project management structure (Figure 4).
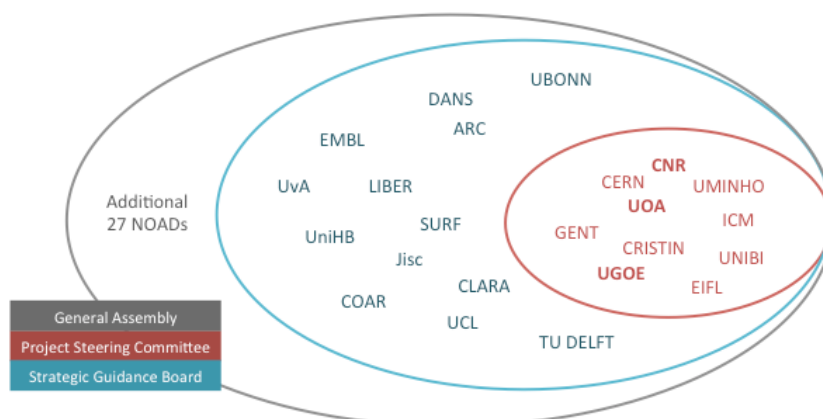
Figure 5 OpenAIRE2020 management bodies membership.
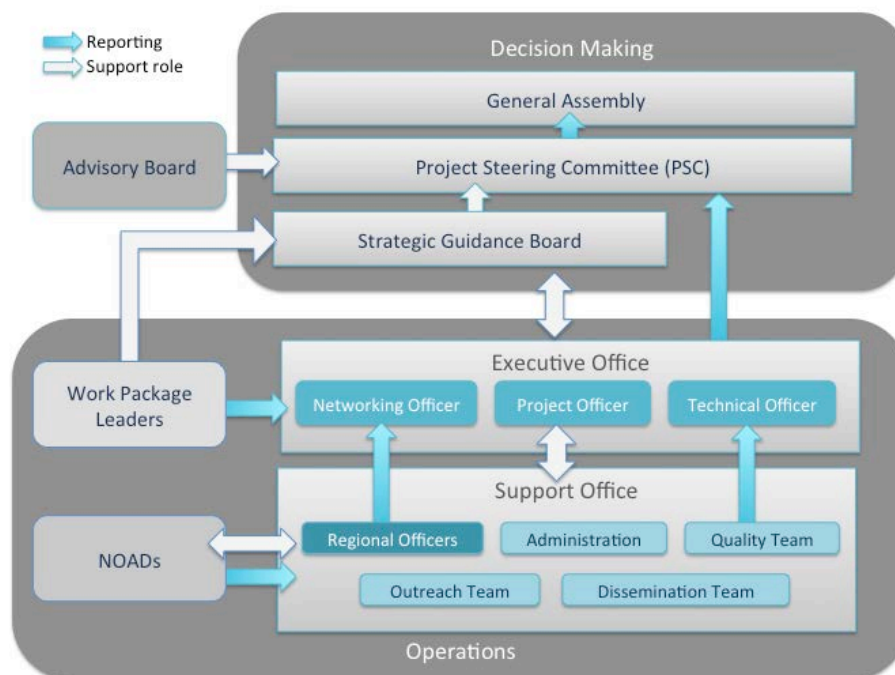
Figure 6 - OpenAIRE management structure.

3.2.2 General Assembly (GA)

The General Assembly is the ultimate decision making body of OpenAIRE2020. It is designed to provide high level supervision of the project activities and to promote and assess the scientific quality of the project. The General Assembly shall consist of one representative of each partner.

The Coordinator (UoA) shall chair all meetings of the General Assembly. The Coordinator is the legal entity acting as the intermediary between the Parties and the European Commission.

The following decisions shall be taken by the GA:

- Proposals for changes to the Description of Work to be agreed by the European Commission
- Changes to the Consortium Plan (including the Consortium Budget)
- Entry of a new Partner to the Consortium and approval of the settlement on the conditions of accession of such a new Party
- Withdrawal of a Party from the Consortium and the approval of the settlement on the conditions of the withdrawal
- Declaration of a Party to be a Defaulting Party
- Proposal to the European Commission for a change of the Coordinator
- Proposal to the European Commission for suspension of all or part of the Project
- Proposals to the European Commission to terminate the Grant Agreement

3.2.3 Strategic Guidance Board (SGB)

Due to OpenAIRE2020's wide scope and the participation of different types of organizations in a non-NOAD role (libraries, associations of European and international bodies, national services, data publishers and technology partners) a Strategic Guidance Board (SGB) is formed to include all partners who have a role which is additional to NOAD activity in which they can voice their opinions and provide their input on the strategic direction of the project. The SGB will have 23 members (as illustrated in Figure 5) and will perform the following:

- Discuss strategic issues as shaped and notified by the Executive Office or the work package leaders.
- Bring in new ideas or directions that can potentially benefit the project.
- Raise issues relative to a partner's activities that may place a potential risk to the project.
- Discuss policies and alignments with different bodies at the national or disciplinary level.
- Discuss possible re-aligning mechanisms towards the post-grant FP7 Gold OA pilot and make appropriate recommendations to the PSC.

The SGB will be chaired by the Scientific Coordinator (UGOE) and will support the work of he Project Steering Committee. The SGB will meet at agreed intervals and the three Coordinators will be responsible for calling the meetings and arranging the agenda. Due to the large number of participants, on line collaboration will take place through wiki.

3.2.4   Project Steering Committee (PSC)

Due to the size of the project it will be inefficient for the GA or the SGB to be responsible for everyday management. Based on the experience gained from the management of past OpenAIRE projects, flexibility and effectiveness, risk assessment and immediate response is achieved through the establishment of a Project Steering Committee (PSC). The project coordinator will chair the project steering committee, and will be assisted by the Scientific and Technical coordinators (e.g. agenda). The 10 members of the PSC will comprise the technical and the scientific managers and one representative from the main networking and technical partners (Figure 5). NOADs will be represented by their regional coordinators and the members in the Strategic Guidance Board (SGB) will be represented by the Scientific Coordinator. The PSC is designed to provide high level supervision of the project activities and to promote and assess the scientific quality of the project. More specifically, its role is to:

- Define means to implement all major technical decisions
- Provide recommendations for improving the project's efficiency
- Define funding policies
- Identify the need for significant changes in the project work-plan and oversee their implementation and suggest to the GA for approval
- Review and/or amend the cost of time schedule under the EC grant agreement
- Review and/or amend the termination of the EC grant agreement and suggest to the GA for approval
- Decide on the termination of a partner according to the consortium agreement and suggest to the GA for approval
- Propose and approve resolutions of critical issues and conflicts and suggest to the GA for approval
- Communicate with the Commission (e.g. dissemination of guidelines)
- Receive deliverables and confer on these with the Scientific and the Technical Coordinator about quality assurance (e.g. internal review)
- Approve strategic documents and liaisons as these are defined or recommended by the Executive Office (EO) or the Strategic Guidance Board (SGB)
- Based on SGB recommendations, take corrective actions and revise project priorities if the APC fund for Gold OA is significantly underspent (at appropriate milestones as set by the corresponding WP).

Specifically, due to the envisioned establishment of an OpenAIRE legal entity within the first year of the project, the PSC will dedicate time to discuss and approve the methodology and recommendations from the corresponding dedicated task designed to achieve this goal.

Each member will have one vote, and a relative majority system of voting will be employed. Further details will be defined in the consortium agreement. The PSC will meet at agreed intervals. The Coordinator (UoA) will be responsible for calling the meetings. Extensive use of information technology (video and audio conferencing, dedicated web page and mailing lists) will also be made available. For a smooth operation, regardless of problems, the PSC will have a phone/video conference bi-monthly in order to review the situation. Issues that cannot be resolved by the PSC shall be submitted by the Coordinator to the General Assembly..

3.2.5   Executive office

This is composed of three executive officers who oversee and guide the daily management of all the project's activities. They interact with the WP leaders and the support office and report directly to the PSC. The executive team has three members:

– **Project officer** overseeing all activities and coordinates between the networking and technical efforts (Natalia Manola from the University of Athens).
– **Networking officer** who has the responsibility for managing the NOADs and external networking activities (Najla Rettberg from University of Goettingen)
– **Technical officer** who oversees the technological direction of the project and supervises all the technical work associated with each work package (Paolo Manghi from CNR-ISTI).

Apart from daily interactions, the Executive Office (EO) holds a phone/video conference once a month to go over the plans and activities. Also the office will issue a bi-monthly report covering all high level activities.

3.2.6 Support office

This is composed of a number of work areas that support all the project's activities and facilitates the work of the Executive Office.

–   The **Regional Officers** are the partners who oversee the activities of the NOADs at the regional level (geographical or thematic). The have a monthly phone/video conference with the NOADs in their regions to go over specific plans and reports, to coordinate/align the efforts between partners, to assess plans and achievements and to support or re-route them where necessary. The regional management structure was defined in previous projects and continues in OpenAIRE2020 as illustrated in Figure 7: UMINHO for South, UGENT for West, CRIStin for North, EIFL for East and DANS as the thematic region targeting Research Data Management. The regional officers report to the Networking Officer (UGOE as the Scientific Coordination of the project).
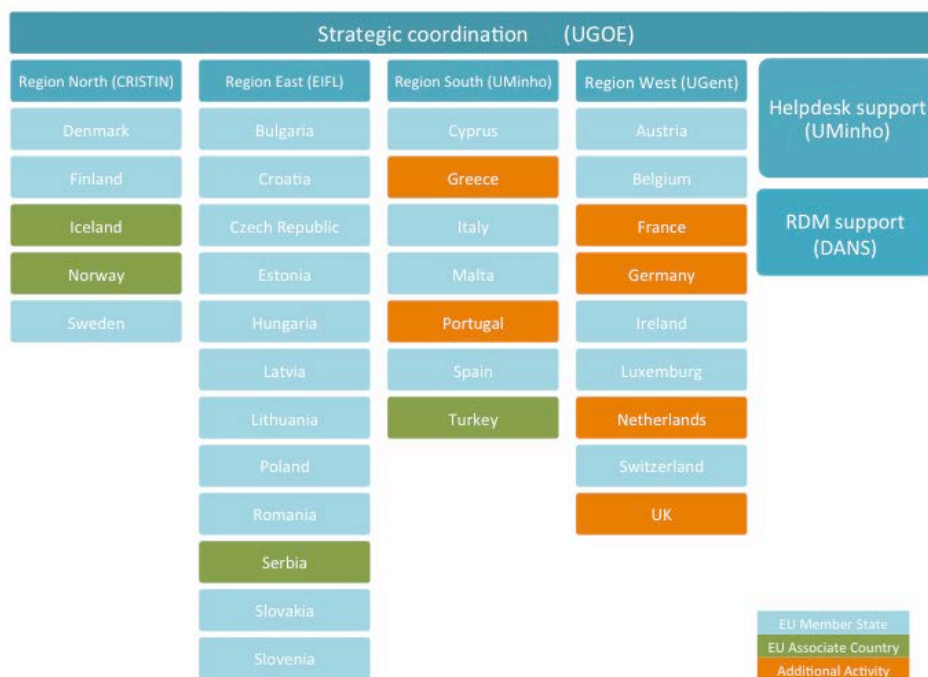
Figure 7. NOAD management structure.

–   The **Helpdesk** team supports the operational activity of the helpdesk (ticketing system, FAQ, guides and toolkits). It is comprised of all NOADs and is led by UMINHO.
–   The **Training** team is responsible for coordinating and facilitating all training activities within the project. It is comprised of EIFL, UMINHO, UGENT, UGOE, CNR, UoA, DANS, Jisc, and is led by EIFL.
–   The **Quality Control** team is comprised of people from the technical teams (UNIBI, CNR, ICM, CERN, UBONN, ARC) who are responsible for overseeing all aspects related to quality in the technical sense: data curation and quality of service provision. The team is led by CNR-ISTI and reports to the Technical Officer.
–   The **Dissemination/Liaison** team is responsible for supporting the Executive Office in all its outreach activities. The team oversees the production of dissemination material, deals with communication channels (social network, newsletter, press releases) and maintains a list of liaison contacts for follow ups. The team is comprised of UoA, UGOE, CNR, CERN, UMINHO, EIFL, UGENT, CRIStin, LIBER, COAR and is led by UGOE and reports to the Project Officer.
–   The **Administrative** team supports the project in all its administrative and financial activities in relation to the EC and third parties. The team is led by UoA and reports to the Executive Office and the Project Coordinator.

3.2.7 Advisory Board

The Advisory Board will support and advise the project from a stakeholder's perspective (data centers and federations, CRIS, research funders, research communities, research organisations and institutions, publishers etc.) and will be invited to review the project's research results. Moreover, the Advisory Board will support OpenAIRE in defining a conceptual

framework for partnerships and sustainability planning. The Advisory Board will be appointed by the Project Steering Committee, will be chaired by the Scientific Coordinator and will meet two times during the duration of the project.

The current Advisory Board membership (table below) will be renewed with members from related bodies or initiatives like data service centres (e.g., Australian National Data Service, National Center for Supercomputer Applications), ESFRI initiatives/projects representing research communities, OA publishers or library associations, CRIS-related initiatives or companies.

Current OpenAIRE Advisory Board Members

Sayeed Choudhury	U.S.A.	Johns Hopkins University
Kevin Ashley	UK	DCC
Malcolm Atkinson	UK	University of Edinburgh
Theodora Bloom	UK	PLoS, OASPA
.Oya Yildirim Rieger	U.S.A	arXiv.org
Robert Kiley	UK	Wellcome Trust, UKPMC
Michele Kimpton	U.S.A.	DuraSpace
Les Carr	UK	U Southampton, Eprints
Paul Ayris	UK	UCL, LIBER, LERU
Lars Björnshauge	DK	SPARC EU

Two advisory meetings are planned for the duration of the project (20.000 € of direct costs have been allocated to UGOE for this purpose).

3.2.8 Work Package Leader

Each work package has a distinct Work Package Leader. Work Package Leaders will be responsible for the coordination of the activities carried out by their work package. For any problems that may occur they will have to report to the PSC chair. The Work Package Leaders are responsible for the deliverables of the work package and they will be appointed at the project Kick-off meeting.

3.2.9 Project manager

Each partner will appoint a project manager (PM). All official communications will be addressed to him or her. He or she will report to the Executive Office to ensure the alignment between the organization's objectives and the direction of the project. He/she will also be responsible for ensuring that the organization provides resources to the level specified in the project. In addition he/she will provide the coordinator with all the necessary information regarding his/her organization for the preparation of the management reports and they will be appointed at the project Kick-off meeting.

3.2.10 Quality Management

A quality control policy will be defined in the early stages of the project which will describe the project management and quality assurance procedures. This plan will define a set of rules for the organization of day-to-day cooperative work, including reporting mechanisms; the organization of meetings; and the preparation of documentation for submission to the EC. It will establish short period internal reporting procedures as a proactive measure to avoid potential problems or delays in the future. The progress of project work will be monitored against the objectives and the milestones set in the technical Annex according to the quality plan.

Quality management will be organized through the administrative management activities assuming responsibility for communication with the Commission, notably the deliverables, but will be collaboratively performed by all those engaged in management functions: deliverables will be submitted to the administrative coordinator, who will confer with the strategic and technical manager about reviewing the deliverable before handing it over to the Commission. The responsibilities for reviewing will depend on the nature of the deliverable (e.g. a technical deliverable will be reviewed by the technical coordinator). A quality control policy will be defined in the early stages of the project and will describe the project management and quality assurance procedures in a Quality Plan. This plan will define a set of rules for the organization of day-to-day cooperative work, including both administrative and technical issues. On the administrative side it will cover the reporting mechanisms, the organization of meetings and the preparation of documentation for submission to the Commission. It will establish procedures for identifying, estimating, treating and monitoring risks, to prevent any

problems or delays in the project. The progress of the project work will be monitored against the objectives and the milestones set in the proposal according to the Quality Plan.

On the technical side, it should cover the definition of procedures for assuring the quality both of the "production process" and of the "products". The Quality Plan defines how standards, procedures and metrics will be defined, applied and evaluated within the project comprising:

- QA procedures for documents and software production, check and test
- QA procedures for services check and test
- Risk Management. Document Management and Configuration Management
- Metrics definition for NA, SA, JRA activities.
- Exceptions management.

On the networking side it will establish and follow up the quality assurance processes for the efficient operation of the NOAD network structure, from the regional coordinators to the NOADs themselves. It will ensure that NOADs establish plans and follow or re-align accordingly, and that through periodic communication the management conveys the project's strategic directions in a clear way.

3.2.11 Risk Management

The risks that may potentially affect OpenAIRE2020 will be monitored continuously in order to elaborate the corresponding contingency plans. The Executive Office will identify risks and report to the Project Steering Committee which will specifically address risk issues at each meeting. The risk management tasks consist of risk identification, estimation, mitigation and follow-up.

- Risk Identification. All consortium partners are concerned with risk detection. When a risk is detected, it is reported to the WP leader, who is assessing the risk. Risks that are serious, affecting the critical path of the project, are further reported to the project coordinator.
- Risk estimation. The risk estimation process consists of two processes. The estimation of the risk likelihood and the estimation of the risk impact to the project.
- Risk Mitigation and Follow-up. Each risk shall have an owner who is responsible for its mitigation, monitoring and reporting. In addition, the risk owner shall propose a preventative and corrective treatment, consisting of suitable actions to reduce the severity and impact of the risk.

Particularly, continuous monitoring will be dedicated to the following risks:

- Consortium is too large to be easily coordinated - If this occurs the impact on the project will be significant. However the probability is low due to the experience of the partners and due to the fact that most partners have already cooperated successfully in the projects DRIVER, DRIVER II, OpenAIRE and OpenAIREplus.
- Consortium Heterogeneity – R&I projects consist of partners with different backgrounds, sometimes using different terminology. OpenAIRE2020 partners have already identified this risk. In order to circumvent this risk, OpenAIRE2020 has a well-tuned and experienced executive team that has a deep understanding of all issues and are able to resolve differences.
- Underestimation of the required effort - This risk is handled by the WP leaders monitoring the planned versus actual effort required by each task. Indicators will be included in the periodic reports to the Project coordinator.

Table 17 provides a more detailed list of risks associated with specific tasks in OpenAIRE2020 and the related mitigations measures.

Table 17. OpenAIRE2020 risks and mitigation measures.

Description of risk	WP(s)	Proposed risk-mitigation measures
Low take-up of OpenAIRE guidelines resulting in low repository compliance	WP2, WP4	Past experience with DRIVER and OpenAIRE, and current OpenAIREplus trend, give evidence of a growing interest in the community. The strong H2020 mandate provides a strong leverage by itself but efforts need to be intensified. Collecting feedback via the NOADs so as to modify dissemination strategies if necessary. Work with national infrastructure and funders to promote awareness for an integrated research information platform will contribute towards this effort.
Low uptake among EC project managers of OA mandate.	WP2, WP4	Effective strategies to target: using multiplication approach via regional NOADs to deliver customised training, in tandem with National Contact Points and National Points of Reference.
Lack of clarity on copyright issues poses a risk to the success of the project.	WP2, WP4	Develop best practice in a non-threatening procedure, and to convene specific local events to address this issue if necessary. Work with national initiatives and libraries that already tackle this problem.
Low adherence by researchers to the OA mandate for publications.	WP2, WP4	WP4 has targeted training for this stakeholder group, to reach downstream needs. Close collaboration with FOSTER will ensure efficacy of awareness. Arguments about the positive nature of OA are reinforced in training materials as well as clarifications on IPR issues. The mandate will be communicated in a positive light, not as a top-down burden.
Researchers are wary of sharing data, even if RDM plans are factored in at an early stage	WP2, WP4	Networking activities will promote concept and good practices for data sharing. Also conveyed are the results arising from WP7 for data citation which will examine the behaviour of scientists and data publication needs. Target high visibility projects (e.g., FET flagships).
Global repository interoperability does not produce tangible results.	WP3	Effort has already started and shows promising results. Offer the OpenAIRE infrastructure as a test bed for targeted pilots to showcase the potential benefits. Intensify liaison and outreach activities to include additional global players. Use RDA or similar fora for further influencing the process.
Low take up among researchers of OA and OA Gold funds.	WP5	Evaluate the pilot at a target milestone (e.g., M12 or amount of fund spent, or # of OA publications requesting fund) and re-align, re-purpose accordingly. Targeted awareness raising of the fund, especially via LIBER's integration of awareness at institutional level and targeting FP7 grant recipients. Work with national systems and involve OA publishers in the awareness/advocacy process.
Insufficient data from OpenAIRE for indicator impact analysis	WP7	OpenAIRE works to gather indicators from a rich range of data sources, not heavily reliant on one source. Work with national initiatives (IRUS, OA Statistik) and pilots with repository networks (Portugal, France, UK) to deliver
Non-integration with EC IT backend systems	WP8	Gathering all project's scientific output is a complex work, and it is not in the scope of an IT system. Work with high level officials and intensify the support and training at the EC project officer level.
Collaboration with national funders low or difficult.	WP4, WP8	Seek high-level collaboration with Science Europe. Approach research communities and smaller country national funders.
Technical challenges are too ambitious and prevent new services from being successfully developed or existing services to be extended.	WP8, WP9, WP10	The OpenAIRE services are visionary and demand a state of the art technology expertise, which is provided by the research institutions of the technical partners. Evaluate performance of technical teams and seek further technical advise from within the institutes. Deliver services offering functionalities to the achievable extent and justify the missing parts to the Commission.
Uptake of OpenAIRE content or services by 3rd party service provider low.	WP9	Intensify outreach efforts and re-evaluate strategy. Involve young entrepreneurs (targeted workshop at ICRI or similar conference) to identify the most suitable framework for the establishment of the targeted collaborative environment.

3.3 Consortium as a whole

The project consortium incorporates the best available expertise for building and supporting infrastructures on scholarly publications, being able take on board the remit of H2020 mandate on OA of all its scientific publications and the Open Research Data Pilot. The partners of OpenAIRE2020 have been selected to complement expertise and experience in the most effective way to achieve the project's overall goal. It provides all the necessary competencies through four complementary categories of partners (distribution illustrated in Figure 6), with the European footprint visible in every dimension:

– *Technical partners:* Universities, research organizations and library IT departments who are responsible for designing, setting up and maintaining the technical infrastructure (UoA, CNR, UNIBI, ICM, CERN, UBONN, EKT);
– *OA commissioners:* Repository, library officials and associations, national and global infrastructure representatives, who run the organizational structure to support OpenAIRE2020, promote OA and liaise with other initiatives (UGOE, EIFL, UGENT, UMINHO, CRIStin, COAR, CLARA, LIBER, SURF, Jisc, UCL);
– *Disciplinary Science partners*: Leaders in their disciplines on the national and international/European levels, representing different areas in the scientific and scholar domains, maintaining data repositories in different stages with regard to policies and technology for linking data with publications (EMBL, UniHB, DANS);
– *National representation:* 33 national organizations established in their countries on relevant e-Science data infrastructures who are in a position to effectively influence researchers' practices and policy making funding bodies (NOADs).
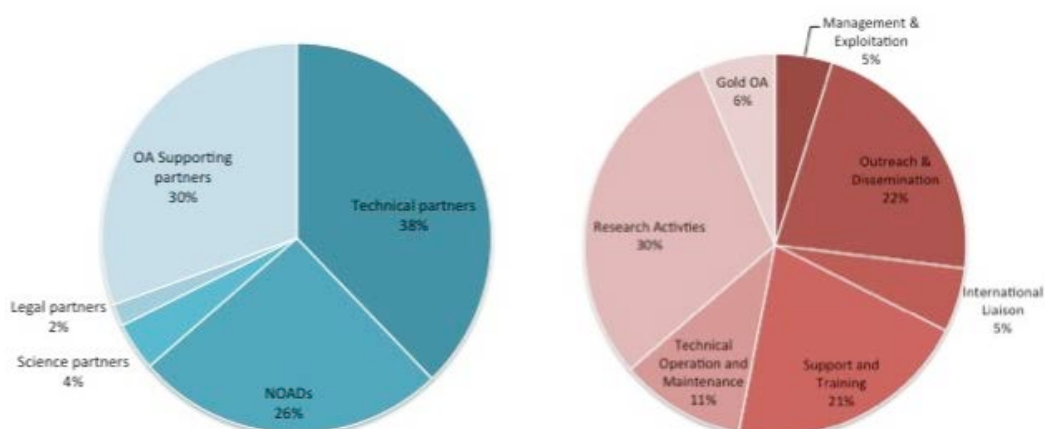
Figure 8. Effort and budget distribution by partner and task typology.

The partners have been carefully selected in order to provide all the expertise needed while avoiding overlaps.

No	Partner	Contribution & Expertise
1	UoA	Coordination and implementation of the exploitation plan (legal entity). Participation in support/training, outreach/dissemination, international liaisons. *Tasks: Leads WP1, participates in all support and outreach wps* Expertise: Coordination of the Driver and OpenAIRE projects. Leadership in key European and national infrastructures and initiatives and links to ESFRI programmes. Technical knowledge in data infrastructures.
2	UGEO	Scientific coordination relative to the OA policies and publishing workflows. NOAD network management and responsible for liaison activities. Participated in legal studies and oversees the study on new publishing methodologies. *Tasks: Leads WP2 and WP7, participates in all support and outreach wps* Expertise: Institutional Open Access policy and repository development, federation of data repositories, data curation and long-term preservation.
3	CNR-ISTI	Technical coordination, development and deployment of the enabling services (ground-level of the infrastructure); developing services for ingestion (supporting a wide range of workflows) from external sources, authority files, broker services. *Tasks: Leads WP8, participates in all technical and support wps* Expertise: Data and repositories e-infrastructures, data curation, data interoperability, data mediation systems. e-Infrastructure enabling services. Expertise on technology transfer and technological training

No	Partner	Contribution & Expertise
4	ICM	Operation and maintenance of technical services on ICM's data center. Development of data mining algorithms services. NOAD for Poland. *Tasks: Leads WP6 and WP10, participates in WP7, WP8.* Expertise: 10+ years experience in heavily used, large scale Internet virtual library and heuristic text similarities analyzing algorithms.
5	CERN	Setup, operation and maintenance of Zenodo for publications/data/software. Integration with OpenAIRE and various publishing workflows. *Tasks: Participates in WP23, WP6, WP9* Expertise: CERN digital library services.
6	ARC	Development of the functionality services (e.g. user interfaces), deposition, access (search and browse), data source validation, monitoring and statistics, text mining and interlinking mechanisms used in content classification and clustering, advanced research analytics, anonymization, cross-language technologies. *Tasks: Leads WP9, participates in WP5, WP6, W8, WP9, WP10* Expertise: large scale information systems, text and data mining, natural language processing, LOD, personalized and collaborative environments.
7	UNIBI	Development of harvesting and aggregation and usage data services and the metadata curation. Responsible for the maintaining the OpenAIRE guidelines. *Tasks: Participates in WP1, WP2, WP4, WP6, WP8* Expertise: Institutional and e-Scholarship repository development, incl. open access advocacy. Repository search engine (BASE - http://www.base-search.net)
8	UMINHO	Portugal NOAD. Regional coordinator for South. Responsible for the Helpdesk and related support mechanisms. Participates in the outreach, international liaisons and in the technical tasks of repository broker and usage data analytics. *Tasks: Leads WP4, participates in WP1, WP2, WP3, WP8, WP9* Expertise: IR implementation, management of national repository network (RCAAP). Awareness raising and advocacy of IR and OA on national and international level. Development of DSpace plugins.
9	EIFL	Regional coordinator for East. Leads the H2020 OA policy training programme. *Tasks: Participates in WP1, WP2, WP4* Expertise: Programmes to enable access to knowledge for education, learning, research and sustainable community development in developing countries.
10	UGENT	Belgium NOAD. Regional coordinator for West. Supporting the workshop programme. *Tasks: Participates in WP1, WP2, WP4* Expertise: Institutional repository development. Focus on OA scholarly communication.
11	CRIStin	Nowray NOAD. Regional coordinator for North. *Tasks: Participates in WP1, WP2, WP4* Expertise: Responsible for NORA, Norwegian Open Research Archives, a search engine of all Norwegian institutional repositories. National CRIS system.
12	COAR	Responsible for the international alignment of publication repositories. *Tasks: Leads WP3* Expertise: International liaisons on publication repositories, leads an RDA interest group on the long tail of science.
13	LIBER	Responsible for the Gold OA APC pilot. *Tasks: Leads WP5* Expertise: Publishing workflows, library practices, publisher negotiations, OA.
14	CLARA	Responsible for OpenAIRE interoperability and uptake in Latin America. *Tasks: Participates in WP3* Expertise: LaReferencia (a CLARA outcome) has created the strategy, framework agreements and technical pilot for the construction and maintenance of a federated network of institutional repositories of scientific publications in Latin America.
15	UvA	Participant in the OpenAIRE legal studies. *Tasks: Participates in WP7* Expertise: The Institute for Information Law (IViR), is one of the largest research centers in the field of information law in the world.

No	Partner	Contribution & Expertise
16	EMBL	Leads the task on data-literature integration. *Tasks: Participates in WP7* Expertise: Operates PMC Europe with many liaisons to life science publishers. Participates in the Force11 data citation implementation group. Involved in extensive text mining of scientific publications for data citation.
17	UniHB	Participates in the task of the data-literature for the data broker implementation. *Tasks: Participates in WP7* Expertise: Operates PANGEA, a geosciences data repository, and leads the RDA/WDS interest group on data publication.
18	UBONN	Develop Linked Open Data framework for export/import of data. Engage with user communities and explore synergies with and added value to related open content initiatives (e.g. Open Educational Resources, DBPedia, PSI). *Tasks: Participates in WP8* Expertise: UBONN brings in Fraunhofer's large portfolio of Open Access in LOD technologies and services (LOD projects, SlideWiki.org)
19	Jisc	UK NOAD. Coordination of the UK's OpenAIRE activity and outreach. Align the UK infrastructure with OpenAIRE, consult in RDM (through DCC), usage statistics service (through MIMAS/IRUS), repository junction broker (through EDINA). *Tasks: Participates in WP2, WP4, WP5, WP8, WP9* Expertise: Jisc has a leading role in building up the UK scholarly communication infrastructure, and has established and runs services that are used world wide (OpenDOAR, SHEPRA Romeo/Juliet.
20	SURF	Coordination of the NL's participation in the Gold OA pilot and the metrics. *Tasks: Participates in WP5, WP7* Expertise: SURF/Leiden provides expertise in metrics through its Center for Science and Technology Studies (CWTS). SURF/Univ Radboud brings in expertise towards OA competitive publishing models.
21	DANS-KNAW	Thematic regional coordinator (RDM). Participates in data-literature integration task. *Tasks: Participates in WP4, WP7* Expertise: Data curation, preservation and management for Social Sciences.
22	TU Delft	Dutch NOAD. Participates in data-literature integration task. *Tasks: Participates in WP4, WP7* Expertise: Open Access advocacy. Implementation of Research Support Portal that brings research-related support services closer to the user.
31	COUPERIN	French NOAD. Participates with affiliate organizations in the repository broker and usage statistics services (HAL and IFREMER), in the Gold OA pilot and the Open Review pilot (CNRS) *Tasks: Participates in WP4, WP7* Expertise: Open Access advocacy, dissemination and training.
33	EKT	Greek NOAD. As part of the EuroCRIS board, EKT will provide technical consultation in the extension of the OpenAIRE data model and the OpenAIRE-CRIS guidelines. *Tasks: Participates in WP8* Expertise: CERIF model and EuroCRIS outreach.
50	UCL	Participates in the Gold OA pilot *Tasks: Participates in WP5* Expertise: Supports UCL's APC workflows in accordance to the UK funders policies.

Other countries: OpenAIRE's true European footprint requires partnership with many EU associate states for technical interoperability and policy harmonization. For this reason the consortium includes the EU associate countries **Norway**, **Serbia**, **Iceland**, **Turkey** and **Switzerland**. Furthermore, OpenAIRE2020's global perspective towards aligned efforts for open scholarship, require close partnership with similar initiatives in developing regions. For this reason the consortium includes **Uruguay** (CLARA) as a key player in the Latin America infrastructure environment.

3.4 Resources to be committed

Table 18 - Summary of staff effort.

		WP1	WP2	WP3	WP4	WP5	WP6	WP7	WP8	WP9	WP10	Total PMs per Participant
1	UoA	22	13	10	18	4		6				73
2	UGOE	10	17	5	25	3		14				74
3	CNR	11	2	10	2	3	50	7	30	17	6	138
4	ICM	2	9		7		47	3	1	1	25	95
5	CERN	1	1		1		5		2	14.5	0	24.5
6	ARC		1			3	21		22	37	34	118
7	UNIBI	1			7		22		20	4		54
8	UMINHO	1	10	6	30				6	4		57
9	EIFL	1	10		14							25
10	UGENT	1	8.5		12							21.5
11	CRIStin	1	4		11							16
12	COAR			18								18
13	LIBER		1		2	27						30
14	CLARA			12								12
15	UvA						1	6				7
16	EMBL							13				13
17	UBONN								15			15
18	UniHB							14				14
19	Jisc		5		8	3			3	3		22
20	SURF					8		12				20
21	DANS-KNAW		2		5			3	3			13
22	TU Delft		4		5			3				12
31	COUPERIN		3		5	2		5	2	2		19
33	EKT		5.5		7		2		5			19.5
50	UCL					7						7
22-49	rest of NOADs		80		122							202
	Total Person/Months	51	176	61	281	60	148	86	109	82.5	65	1119.5

The following tables show detailed explanations of partner direct costs, when greater than 15% of the personnel cost. OpenAIRE2020, as a mutli-faceted, multi-stakeholder project requires extensive travel from key partners and supports the organization of a large number of workshops, at the national (33), regional European (5), and international (2) level.

UoA	Cost (€)	Justification
Travel	58,000	Travel for 2 persons on the average: 5 OpenAIRE workshops, 3 review meetings, 4 f2f Training, 2 trips for international liaison, 8 conferences, 3 RDA working group meetings, 2 Advisory Board meetings, 2 technical meetings
Equipment	4,500	3 laptops
Meetings/events	20,000	Kick-off meeting, PSC meeting organizations, subsidy for OpenAIRE event
Dissemination	15,000	Dissemination material and campaign design
Other goods and services	1,500	Auditing
Total	100,500	

UGOE	Cost (€)	Justification
Travel	53,000	Travel for 2 persons on the average: Kick off meeting, 5 OpenAIRE workshops, 3 review meetings, 4 f2f Training, 2 trips for international liaison, 8 conferences, 3 RDA working group meetings, 2 Advisory Board meetings, 2 technical meetings
Equipment	4,000	2 laptops
Other goods and services	28,000	2 Advisory Board meetings, subsidy for OpenAIRE event
Total	85,000	

UMINHO	Cost (€)	Justification
Travel	39,500	Travel for 1.5 persons on the average: Kick off meeting, 4 OpenAIRE workshops, 3 review, 4 f2f Training & 2 trips for international liaison, 8 conferences, 2 Advisory Board meetings
Equipment	1,500	1 laptop
Workshop	10,000	Regional workshop
Other goods and services	1,500	Conference fees
Total	42,500	

EIFL	Cost (€)	Justification
Travel	13,700	Travel for 1 person on the average: Kick off meeting, 4 OpenAIRE workshops, 3 review meetings, 4 f2f Training, 4 conferences, 2 Advisory Board meetings
Equipment	1,500	1 laptop
Workshop	7,000	Regional workshop
Other goods and services	1,500	Conference fees
Total	23,700	

UGENT	Cost (€)	Justification
Travel	10,000	Travel for 1 persons on the average: Kick off meeting, 4 OpenAIRE workshops, 3 review meetings, 4 f2f Training, 4 conferences, 2 Advisory Board meetings
Equipment	1,500	1 laptop
Workshop	12,000	Regional workshop
Other goods and services	1,500	Conference fees
Total	25,000	

CRIStin	Cost (€)	Justification
Travel	10,000	Travel for 1 person on the average: Kick off meeting, 4 OpenAIRE workshops, 3 review meetings, 4 f2f Training, 4 conferences, 2 Advisory Board meetings
Equipment	1,500	1 laptop
Workshop	12,000	Regional workshop
Other goods and services	1,500	Conference fees
Total	25,000	

COAR	Cost (€)	Justification
Travel	40,000	Travel for 1.5 persons on the average (all international): Kick off meeting, 3 review meetings, 6 trips for international liaison, 4 conferences
Equipment	1,700	1 laptop
Other goods and services	2,000	Conference fees
Total	43,700	

CLARA	Cost (€)	Justification
Travel	12,500	Travel for 1 person on the average: Kick off meeting, 4 conferences, regional traveling
Workshop	15,000	LA workshop
Total	27,500	

Jisc	Cost (€)	Justification
Travel	20,000	Travel for 1.5 persons on the average: Kick off meeting, 5 OpenAIRE workshops, 4 conferences, 1 technical meeting
Workshop	20,000	2 national workshops
Total	40,000	

NOADs	Cost (€)	Justification
Travel	460,000	Travel for 2 persons on the average: Kick off meeting, 5 OpenAIRE workshops, 3 conferences, regional travel
Workshops	175,000	National Workshops
Campaign	66,000	Dissemination material
Other goods and services	49,500	Misc
Total	750,500	

4 Members of the consortium

4.1 Participants (applicants)

4.1.1 National and Kapodistrian University of Athens (Coordinator) (UoA)

The **University of Athens** is one of the major higher degree public educational institutions in Greece. The **Department of Informatics and Telecommunications** belongs to the Faculty of Applied Sciences. Department staff consists of 42 academic staff members and over 100 PhD candidates and research associates. The faculty, research staff and students participate in a large number of projects of national and international scale, funded by major programmes such as FP7. The department has a rich and long experience in several topics of Computer Science such as Software Engineering, Databases and Knowledge Bases; Experiment Management Systems; Workflow Management Systems; Digital Libraries; User Interfaces; Personalization and Usage Statistics; Data Warehouses; Data Mining; and Distributed Systems and has participated in several relevant research and development projects.

OpenAIRE2020 key personell are members of the Management of Data, Information, & Knowledge Group (http://madgik.di.uoa.gr/), and have a rich and long experience in several topics of Computer Science such as Database and Information Systems (Distributed Query Processing & Optimization, Heterogeneous Systems, Intelligent Databases), Data Analytics (Machine Learning, Knowledge Discovery, Data Mining, Data Warehouses, Workflow Management), Scientific Systems (eHealth Systems, Scientific Experiment Management, Scientific Database Systems), Social Information Systems (Personalization, Social Networking, Sentiment Analysis), Digital Libraries (Information Integration and Access, Grid-Services, Cultural Heritage Systems), Human-Computer Interaction (Database User Interfaces, Complex Data Visualization). They participates in a large number of national and European projects on the above areas and deal with a wide variety of applications, such as medicine, cultural heritage, space sciences, agricultural science, and others.

Role in OpenAIRE2020:

Project Coordination and executive office management. Strategic liaisons, link between technical and networking activities.

Relevant Projects:

- DRIVER and Driver II (FP7)
- OpenAIRE and OpenAIREplus (FP7)
- iMarine (FP7), Optique (FP7)

Publications:

- Jochen Schirrwagen, Paolo Manghi, Natalia Manola, Lukasz Bolikowski, Najla Rettberg, Birgit Schmidt. Data curation in the openaire scholarly communication infrastructure. Information Standards Quarterly , 25(3):13{19, Fall 2013
- Harry Dimitropoulos, Herald Kllapi, Omiros Metaxas, Nikolas Oikonomidis, Eva Sitaridi, Manolis Tsangaris, Yannis Ioannidis, "AITION: A Scalable Platform for Interactive Data Mining ", SSDBM 2012, 2012
- Paolo Manghi, Lukasz Bolikowski, Natalia Manola, Jochen Schirrwagen, Tim Smith: OpenAIREplus: the European Scholarly Communication Data Infrastructure. D-Lib Magazine 18(9/10) (2012)
- Yannis E. Ioannidis, Maria Vayanou, Thodoris Georgiou, Katerina Iatropoulou, Manos Karvounis, Vivi Katifori, Marialena Kyriakidi, Natalia Manola,Alexandros Mouzakidis, Lefteris Stamatogiannakis, Mei Li Triantafyllidi: Profiling Attitudes for Personalized Information Provision. IEEE Data Eng. Bull. 34(2): 35-40 (2011)
- Gabriella Kazai, Natasa Milic-Frayling, Tim Haughton, Natalia Manola, Katerina Iatropoulou, Antonis Lempesis, Paolo Manghi, Marko Mikulicic, "Connecting the local and the online in information management ", Proceedings of the 19th ACM Conference on Information and Knowledge Management, CIKM 2010, 2010
- Gabriella Kazai, Paolo Manghi, Katerina Iatropoulou, Tim Haughton, Marko Mikulicic, Antonis Lempesis, Natasa Milic-Frayling, Natalia Manola, "Architecture for a Collaborative Research Environment Based on Reading List Sharing ", Research and Advanced Technology for Digital Libraries, 14th European Conference, ECDL 2010, 2010

Key Personnel:

Prof. Michael Chatzopoulos [M] is currently a Professor at the Department of Informatics, University of Athens. He has a Diploma in Mathematics from the University of Athens (1971) and an MSc and a PhD in Computer Science from Loughborough University of Technology (in 1972 and 1974 respectively). He has participated in many R&D projects,

both National and European Union. He is the project coordinator for DRIVER, DRIVER II and OpenAIRE/plus. His research interests are Agent Technology; Multimedia Databases; Multimedia Indexing; Statistical Databases; Performance Issues in the WEB; and Physical Database Design. He is a referee in many scientific journals and conferences and for NSF proposals and has worked as a referee and evaluator many times for the European Union (DGIII and DGXIII).

Prof. Yannis Ioannidis [M] is currently a Professor at the Department of Informatics and Telecommunications of the University of Athens. In early 2011 he also became the President and General Director of the ATHENA Research and Innovation Center; in addition, since April 2011, he serves as the Acting Director of the Institute of Language and Speech Processing of ATHENA. He received his Diploma in Electrical Engineering from the National Technical University of Athens in 1982, his MSc in Applied Mathematics from Harvard Universityin 1983, and his Ph.D. degree in Computer Science from the University of California-Berkeley in 1986. Immediately after that he joined the faculty of the Computer Sciences Department of the University of Wisconsin-Madison, where he became a Professor before finally leaving in 1999. His research interests include database and information systems, personalization and social networks, data infrastructures and digital libraries & repositories, scientific systems and workflows, eHealth systems, and human-computer interaction, topics on which he has published over one hundred articles in leading journals and conferences. He also holds three patents. Yannis is an ACM and IEEE Fellow (2004 and 2010, respectively) and a recipient of several awards for teaching excellence. Yannis has been a (co-)principal investigator in over thirty research projects funded by various government agencies (USA, Europe, Greece) or private industry. He is currently an Associate Editor of Information Systems and Journal of Digital Libraries and has been a member of the program committees of over sixty conferences, six times as (co-)chair (ICDE'09, ADBIS'07, EDBT'06, HDMS'03, VLDB'02, VDB'98, and SSDBM'97). Yannis currently serves as the ACM SIGMOD Chair (July 2009-June 2013), following a 4-year term as Vice-Chair, and is or has been a member of several other executive bodies of professional organizations (VLDB Endowment, IEEE TCDE Executive Committee, EDBT Endowment) and Scientific Advisory Boards (Max Planck Institute for Informatics, Greek National Science & Technology Council, Information Technology advisor to the Greek Minister of Health).

Natalia Manola [F] is a Senior Software Engineer holding a B.Sc. in Physics from the University of Athens, Greece, and an M.Sc. in Electrical and Computer Engineering from the University of Wisconsin at Madison, USA. Her professional experience consists of several years of employment as a Software Engineer, Software Architect, Information Technology Administrator, and Information Technology Project Manager by companies in various Information Technology sectors in the US and Greece. The systems she has designed and implemented include specialized ETL tools, biotechnology and genetic applications, embedded financial monitoring systems, and heterogeneous data integration systems. She has also participated and technically managed several R&D projects funded by the European Union (DIAS, DRIVER, DRIVER-II, CHESS, ESPAS) or by the national government. Since Dec 2008 she is the project manager of OpenAIRE and OpenAIREplus projects.

4.1.2 *Georg-August – Universitaet Goettingen Stiftung Oeffentlichen Rechts (UGOE)*

Göttingen State and University Library (UGOE) is one of the largest libraries in Germany and a leader in the development of digital libraries. UGOE is one of the leading open access institutions and e-Infrastructure innovators in Germany and internationally.

UGOE played a key role in leading the networking activities in the EC-funded DRIVER project (2005-2009), building the digital repository infrastructure for Europe. UGOE acts as Scientific Coordinator of the EU-funded OpenAIRE (2009-2012, www.openaire.eu) and its continuation project OpenAIREplus (2011-2014), which have built up an infrastructure and support network for the implementation of the European Commission's open access policies across 32 European countries and aims to widen its scope by connecting publications to contextual information, such as research data. UGOE hosts the international Confederation of Open Access Repositories (COAR, www.coar-repositories.org), a not-for-profit association of repository initiatives launched in October 2009. Moreover, UGOE contributed to the project PEER (Publishing and the Ecology of European Research, www.peerproject.eu), which investigated the effects of the large-scale self-archiving on access, visibility and journal viability, and the OAPEN project (Open Access Publishing in European Networks, www.oapen.org), which explored financing models and effects on visibility and usage of open access books, and built up the OAPEN Library. Since 2009 UGOE has been operating a publication fund for 'gold' open access publishing and supports researchers through institutional electronic publishing services.

Nationally, UGOE also hosts the secretariat of DINI (German Initiative for Networked Information) and contributed to the development of the DINI guidelines "Certificate for Document and Publication Services". Moreover, UGOE coordinates open-access.net, a national information platform on open access (all information also available in English), which reaches out to expand over the German-speaking regions.

UGOE establishes dedicated research environments for the humanities in national, European and ESFRI activities; notably, it holds the management (together with France) and technical coordination (together with Austria) within the construction phase of the ESFRI project DARIAH. These and other projects address organizational and technical aspects such as virtual research environments and research infrastructures for scientific data (e-Research), research data management, data curation and long-term preservation (e.g. PERICLES, German Federation for the Curation of Biological Data).

<u>Role in OpenAIRE2020:</u>

Scientific coordinator, managing OA policy strategy, liaisons and NOAD network.

<u>Related Projects:</u>

UGOE have been active in a number of FP7 projects, namely:

- DRIVER II – Digital Repository Infrastructure Vision for European Research (2007-2009)
- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)
- FOSTER – Facilitate Open Science Training for European Research (2014-2016), which is coordinated by UMinho.

<u>Publications:</u>

- Guibault, Lucie; Wiebe, Andreas (eds.) (2013): Safe to be open: study on the protection of research data and recommendations for access and usage. Goettingen: Univ-Verlag.
- Lossau, Norbert (2012): An Overview of Research Infrastructures in Europe - and Recommendations to LIBER. LIBER Quarterly, North America, 21, apr. 2012.
- Rettberg, Najla; Schmidt, Birgit (2012): OpenAIRE — Building a Collaborative Open Access Infrastructure for European Researchers. LIBER Quarterly; Vol. 22, No. 3, p. 160-175.
- Schmidt, Birgit; Kuchma, Iryna (2012): Implementing open access mandates in Europe : OpenAIRE study on the development of open access repository communities in Europe. Goettingen: Univ-Verlag.

<u>Key Personnel:</u>

Prof Dr Norbert Lossau, [M], former Director of Göttingen State and University Library (SUB), is full-time Vice-President of Göttingen University through 2019. Within the University directorate, Prof. Dr. Norbert Lossau is in charge of the Faculty of Mathematics, the Faculty of Geoscience and Geography and Computer Science; he is also responsible for research and information infrastructure and facility management. Since 2011 he is also Honorary Professor at the Humboldt-University Berlin / School of Library and Information Science. In 2001 Norbert Lossau became the first 'Head of the Oxford Digital Library' at the University of Oxford, before being appointed Director of the Library of Bielefeld University in 2002 and subsequently Director of the State and University Library, Göttingen, in 2006. Norbert Lossau is a

member of numerous national and international boards, including the Committee on Scientific Library Services and information Systems (AWBI) of the German Research Foundation, the Prussian Cultural Heritage Foundation Advisory Committee, the working group 'Digital Information in Research and Teaching' of the German Rectors' Conference (HRK), the Board of the German Library Association LIBER, the Board of the international Confederation of Open Access Repositories COAR (chairman), and the Working Group on Data Infrastructures of the G8 + O5 countries. He is scientific coordinator of the European project 'OpenAIRE/plus' and a member of the High Level Strategic Forum of the European Project iCordi in the context of the Research Data Alliance.

Dr Birgit Schmidt, [F], coordinates international and national projects and initiatives in the Electronic Publishing unit at Goettingen State and University Library. Currently, she serves as Scientific Secretary of the LIBER Steering Committee on Scholarly Communication and Research Infrastructures. Previously, she acted as Scientific Manager of the European OpenAIRE project (2009-2012) and as Executive Director of the Confederation of Open Access Repositories (COAR). With a background in Mathematics and Philosophy, and a postgraduate degree in Library and Information Science, her main areas of interest are open access policies and practices, electronic publishing, and research data management.

Najla Rettberg, [F], is Scientific Manager of the OpenAIREplus project. She is a librarian with extensive experience in open access and digital preservation, having been executive secretary of the Digital Preservation Coalition and worked at Edinburgh University Library. She has worked as a consultant for a range of clients including the Online Computer Library Centre (OCLC), Kings College London, the Digital Preservation Coalition and the Digital Curation Centre.

Prof. Dr. Andreas Wiebe, LL.M. (Virginia), [M], is a Professor of competition law, intellectual property law and media law at the Georg-August-University of Göttingen since 2009.

From 2002 to 2009 he was the head of the Department of Information Law and Intellectual Property Law at Vienna University of Economics and Business Administration. Main areas of research are information and communication technology law, copyright and intellectual property law, and unfair competition law. Professor Wiebe participated in and coordinated several nationally and EU funded research projects, in recent years with a special focus on data protection and copyright law. Prof. Wiebe is on the scientific board of several IT and media law journals in Germany and other European countries. He is an author of several German and English legal articles and books and co-editor of handbooks. He was Vice President of the German computer law association (DGRI) from 2005 to 2011.

Prof. Dr. Gerald Spindler, [M], is the Head of the Chair of Civil Law, Commercial and Economic Law, Comparative Law, Multimedia- and Telecommunication Law at the Georg-August-University of Göttingen. He is holding a diploma in economy, and studied law and economy in Frankfurt a.M., Hagen, Geneva and Lausanne. Apart from teaching, various books, articles in law reviews and books, as well as expert legal opinions are published by Professor Spindler. He has been Vice-Chairman of the German Society of Law and Information Science and has also advised the German, as well as the European legislator regarding various questions concerning the information society.

Nils Dietrich, LL.M., [M], works as a legal researcher at the Institute for Economic Law at the Georg-August-University of Göttingen. He studied law and economy and is holding an international master's degree in intellectual property law. His main areas of research include information technology law, intellectual property law and data protection and privacy law. As a legal researcher, Nils Dietrich worked on the FP7 projects CONSENT and OpenAIREplus, which had a special focus on data protection and copyright law. He is author of diverse publications in the field of copyright and media law.

4.1.3 Consiglio Nazionale delle Ricerche (CNR)

The Italian National Research Council - Institute of Information Science and Technologies (CNR-ISTI), the largest Italian institute in ICT, is organized in 16 laboratories, committed to producing scientific excellence and playing an active role in technology transfer. The InfraScience Research Group (lead by Dr. Donatella Castelli) participating to this proposal belongs to the 'Networked Multimedia Information System' laboratory (NeMIS), which consists of around 60 researchers and technicians conducting research and development activities on the definition of algorithms, techniques, models and methods addressing aspects such as acquisition, integration, storage, analysis, indexing, provision, and presentation of digital information (e.g. text documents, videos, images, scientific data) across different scientific and industrial application domains. The members of InfraScience group have been involved in many EC funded projects relevant to data e-infrastructures and other topics addressed in the OpenAIRE2020 proposal. In particular, in FP7 they have participated in the following projects: D4Science-II, VENUS-C, DL.org, GRDI2020, EFG, EFG1914, HOPE, EUBrasilOpenBio and OpenAIRE. Currently they are involved in the 7th FP projects: OpenAIREplus, iMarine, EAGLE, ENVRI and RDA-Europe. Members of InfraScience are also actively contributing to Europeana, on issues related to data modeling and cloud services, and to RDA interest and working groups related to data citation, publishing, workflows, and metadata representations.

Role in OpenAIRE2020:

In the context of the proposal, the CNR-ISTI team will be responsible of the technical coordination of OpenAIRE (WP1) and of the supervision of software production and maintenance workflows in SA and JRA (WP6). Furthermore, the team will be responsible for the design and development of content management functionalities for the OpenAIRE infrastructure in WP7, WP8, and WP9. Finally, the team will participate to technical, dissemination, training, and support activities for third-party organizations willing to interact with the infrastructure.

Relevant Projects:

- DRIVER and Driver II (FP7)
- OpenAIRE and OpenAIREplus (FP7)
- EFG and EFG1914 (FP7)
- HOPE (FP7)
- iMarine (FP7)

Publications:

- Bardi A., Manghi P., Zoppi F. Coping with interoperability and sustainability in cultural heritage aggregative data infrastructures. In: International Journal of Metadata, Semantics and Ontologies, vol. 9 (2) pp. 138 - 154. Inderscience Publishers, 2014.
- Candela L., Castelli D., Manghi P., Pagano P. Infrastructure-based research digital libraries. In: Recent Developments in the Design, Construction, and Evaluation of Digital Libraries: Case Studies. pp. 1 - 17. Colleen Cool, Kwong bor Ng (eds.). (Advances in Library and Information Science (ALIS)). Hershey, PA: ICI Global, 2013.
- Schirrwagen J., Manghi P., Manola N., Bolikowski L., Rettberg N., Schmidt B. Data curation in the OpenAire scholarly communication infrastructure. In: Information Standards Quarterly, vol. 25 (3) pp. 13 - 19. NISO (ed.). National Information Standards Organization, 2013.
- Castelli D., Manghi P., Thanos C. A vision towards Scientific Communication Infrastructures. In: International Journal on Digital Libraries, vol. 13 (3-4) pp. 155 - 169. Springer, 2013.
- Hoogerwerf M., Lösch M., Schirrwagen J., Callaghan S., Manghi P., Iatropoulou K., Keramida D., Rettberg N. Linking data and publications: towards a cross-disciplinary approach. In: The International Journal of Digital Curation, vol. 8 (1) pp. 244 - 254. UKOLN at the University of Bath, 2013.
- Manghi P., Mikulicic M., Atzori C. De-duplication of aggregation authority files. In: International Journal of Metadata, Semantics and Ontologies, vol. 7 (2) pp. 114 - 130. Inderscience Enterprises Ltd, 2012.
- Manghi P., Bolikowski L., Manola N., Schirrwagen J., Smith T. OpenAIREplus: the European Scholarly Communication Data Infrastructure. In: D-Lib Magazine, vol. 18 (9/10) article n. 1. Corporation for National Research Initiatives (CNRI), 2012.

Key Personnel:

Dr. Donatella Castelli, [F], is Senior Researcher at CNR-ISTI and leader of the InfraScience research group. Her research interests include digital libraries and data infrastructure content modeling, interoperability and architectures. She is author of several research papers in such fields. Under her supervision, the InfraScience team coordinated and participated in several EU and nationally funded projects on Digital Libraries and Research Data Infrastructures. In

particular, she has been the technological coordinator of the DRIVER, DRIVER-II and OpenAIRE projects. In this role she has contributed to the development of the D-Net software toolkit. Dr. Castelli is currently technical manager of the OpenAIREPlus project and the scientific director of the iMarine project and of the D4Science infrastructure. She is also a member of the RDA Europe Expert Group that promotes research and cross-infrastructure coordination at global level and member of the COAR Strategic Committee.

Dr. Paolo Manghi, [M], is Researcher at CNR-ISTI since 2006, member of the InfraScience research group. His research focuses on data models for Digital Library Management Systems, data curation in digital libraries, and autonomic service-oriented data infrastructures, with special care to the realization and technological transfer of open source software. He is author of several research papers in such fields. Moreover, he has participated and coordinated the research and technical activities of several EC projects, such as DRIVER, DRIVER-II, OpenAIRE, HOPE, EFG, and several others whose focus was on the realization of aggregative data infrastructures. He is currently coordinating research and development activities supporting the production data infrastructures for the OpenAIREplus project and the EAGLE project. Finally, he is conceiver and designer of the D-NET Software Toolkit (http://www.d-net.research-infrastructures.eu), a framework for the construction of autonomic and sustainable aggregative data infrastructures.

4.1.4   Uniwersytet Warszawski (ICM)

The Interdisciplinary Centre for Mathematical and Computational Modelling (ICM) is part of the University of Warsaw. ICM is a computational sciences centre and a research data centre developing large-scale mathematical models and conducting innovative, data-driven research, equipped with state-of-the-art HPC infrastructure. The centre has an interdisciplinary team of over 150 researchers and specialists from a wide range of disciplines, including: bioinformatics, climate research, data curation, data mining, digital libraries, distributed and parallel computing, enterprise software development, federated data management, machine learning, materials science, medical imaging analysis, neuroscience, numerical analysis, numerical weather forecasting, research information systems, scholarly communication, and visualization.

ICM, in collaboration with research organizations and private businesses alike, conducts text and data mining projects from domains as diverse as: air transport, dairy farming, or real estate, using CRISP-DM methodology. We also have strong expertise in document analysis systems (e.g. http://cermine.ceon.pl/) and large scale text mining of scholarly publications. Content analysis modules and data workflow frameworks developed by ICM are used in several projects, including: the European Digital Mathematics Library, the Polish Scholarly Bibliography or the Open Access Infrastructure for Research in Europe.

A separate unit of ICM is Centre for Open Science (CeON), an interdisciplinary team of computer scientists, sociologists, lawyers and researchers. CeON conducts comprehensive initiatives in the area of open science and scholarly communication: policy-making (in collaboration with the Polish Ministry of Science and Higher Education and OECD), legal studies, open access support for the research community, scientometric research, software development and maintenance for digital libraries and research information systems.

<u>Infrastructure:</u>

ICM has been operating for over 20 years as the leading Polish research supercomputing and data centre, and has since been constantly ranked in the TOP500 supercomputers list. Over the year, the ICMs focus shifted from High Performance Computing towards research data analytics and Big Data research. ICM has been recently granted 20 million Euro to build a new datacentre specialized in the latter areas. The old datacentre will remain operational as a secondary site.

<u>Role in OpenAIRE2020:</u>

Oversees the operation and maintenance of the OpenAIRE technical services (leads WP6) and provides technical expertise in mining methodologies (leads WP10).

<u>Relevant Projects:</u>

- DRIVER II (FP7)
- OpenAIRE (FP7) and OpenAIREplus (FP7)
- EGEE-III (FP7)
- EGI-INSPIRE (FP7)

<u>Publications:</u>

- D. Tkaczyk, L. Bolikowski, A. Czeczko, and K. Rusek, "A modular metadata extraction system for born-digital articles," in 10th IAPR International Workshop on Document Analysis Systems, 2012, p. 11–16.
- D. Tkaczyk, A. Czeczko, K. Rusek, Ł. Bolikowski, and R. Bogacewicz, "GROTOAP: GROund Truth for Open Access Publications," in Proceedings of the 2012 ACM/IEEE-CS Joint Conference on Digital Libraries, 2012, p. 381-382.

<u>Key Personnel:</u>

Mr. Wojtek Sylwestrzak, [M], is the vice director of ICM, also the head of the Centre for Open Science (CeON) and currently responsible for the Polish national Virtual Library of Science project. His previous experience involves deployment of a number of milestone Polish Internet services since 1994, including data repositories, large scale search engines and distributed systems. During his work at ICM, he has participated in a number of international task forces, programme committees, spoken at international conferences, and participated in a number of national and international research projects. He also acts as an independent expert of OECD, the European Commission, and Polish Ministry for Administration and Digitization. His current interests include scalable search systems and distributed data architectures, and data and text-mining technologies.

Dr. Łukasz Bolikowski, [M], is the head of Data Analysis Laboratory at ICM, University of Warsaw and his current research interests focus on data analysis and on scholarly communication. He holds a PhD in Computer Science from

Polish Academy of Sciences and works at ICM since 2002 as a researcher, analyst and/or software developer in numerous interdisciplinary projects, Dr. Bolikowski gained experience in areas as diverse as: text mining of scholarly publications, bibliometrics, mathematical modelling in science, code optimization on supercomputers, feasibility studies and development strategies for the air transport sector, numerical weather forecasting, semantic network analysis, phylogenetic trees, or sequence alignment in bioinformatics. Participated in several EC-funded projects: CROSSGRID, EuDML, DRIVER II, and OpenAIREplus. Independent expert of OECD, the European Commission, and Polish National Centre for Research and Development. Invited speaker and/or chairman of a number of big data-related conferences and events.

Dr. Krzysztof Siewicz, [M], is the legal counsel specialising in legal aspects of information processing, with a particular focus on digital copyright, open access to scientific publications and data, as well as re-use of public-sector information. He is author of "Open access to scientific publications. Legal issues" (in Polish) and co-author of "Safe to be open. Study on the protection of research data and recommendations for access and usage", as well as numerous other publications in his field of expertise. Dr. Siewicz holds a doctoral degree from Leiden University (the Netherlands), and an International Business Law LLM degree from Central European University in Budapest (Hungary). Apart from his scientific carrer, Dr. Siewicz has been involved in providing legal advice to various entrepreneurs operating in the digital market.

4.1.5   European Organization for Nuclear Research (CERN)

CERN is the world's largest particle physics lab and home of the Large Hadron Collider (LHC), the world's most powerful accelerator providing research facilities for HEP researchers across the globe. LHC experiments generate over 25 petabytes of data per year. Analysis of the data relies on the combined resources of some 200 computer centres world-wide connected together in the World-wide LHC Computing Grid. The CERN charter, 60 years ago, enshrined that "... the results of its experimental and theoretical work shall be published or otherwise made generally available" and this has inspired CERN to play a leading role in both European and worldwide Open Access movements, aiming to provide anyone with immediate and free access to the results of scientific research. Combining this Open Access vision with IT innovation CERN has developed Invenio, an Open Source digital library platform which powers the CERN Document Server, the CERN institutional repository, and is the basis for INSPIRE, the next-generation High-Energy Physics discipline repository, as well as Zenodo. The Invenio technology has also been transferred to dozens of other institutions in the world, from the sciences to the arts, from private foundations to political institutions.

Infrastructure:

CERN will continue to offer hardware to run the Zenodo service, including front-end web servers, and backend DB servers, configured on virtual machines running as a standard part of CERN's cloud, as well as a global file store of several TBs.

Role in OpenAIRE2020:

To operate, maintain and develop the catch-all publications and data repository Zenodo in support of the H2020 data pilot as well as the OA publication mandate.

Relevant Projects:

CERN has contributed to many FP7 projects relevant to the topics of this call, in domains ranging across eInfrastructures (EGEE), data preservation (PARSE.Insight), and data identifiers (ODIN). CERN is also active in projects to provide a preservation infrastructure for HEP data (DPHEP) and is an active participant in the RDA.

Key Personnel:

Mr. Tim Smith, [M], leads the CERN group that develops, installs and maintains instances of Invenio, the CERN Open Source Digital Library system. He is heavily involved in initiatives to drive digital archives at the institutional and subject level and to populate them with content of a broad range of media types. He is one of the driving forces behind INSPIRE the next- generation HEP subject repository. He helped define the CERN Open Source Licence Policy. Prior to this task he led teams responsible for computing farm management and physics data management. He was a work-package manager of the EU DataGrid project, the forerunner of EGEE. He holds a PhD in Physics and performed research at the CERN LEP accelerators for 10 years.

Lars Holm Nielsen, [M], is a software engineer with extensive experience of digital libraries and web-based platforms. He is responsible for the Zenodo service at CERN and for developing its features, as well as extending the features of the underlying Invenio digital library software. He has 14 years experience managing projects and developing innovative web-based products for European Southern Observatory and European Space Agency, and has among other things been involved in the development of the Astronomy Visualization Metadata standard for public outreach astronomy imagery.

4.1.6 ATHENA Research and Innovation Center in Information, Communication and Knowledge Technologies (ARC)

The Athena Research and Innovation Center in Information, Communication and Knowledge Technologies was founded in 2003 comprising of four institutes: Institute for the Management of Information Systems – IMIS, Institute for Language and Speech Processing – ILSP, Industrial Systems Institute – ISI, Institute for Cultural and Educational Technology (CETI). It operates under the auspices of the General Secretariat of Research and Technology, Ministry of Education.

The Athena Research and Innovation Center aims include the following:

1. Promotion of innovative information, communication and knowledge technologies in the industrial and services sectors
2. Development of scientific and technological research in the sectors of information technology, knowledge, communication and automating production processes and the implementation and exploitation of results aiming at the production of laboratory prototypes, products and services
3. Support of development activities in the above sectors and in their applications
4. Life-long learning and training in the respective sectors
5. Management of funding programmes aiming at supporting businesses that act in its sector; promotion of state research and technology policies

Athena plays a major role in the Greek and European data infrastructure community with great expertise regarding the design, development and operation of data infrastructures in a broad range of subject areas. Athena's presidents are, or have been, the national representatives at the 7th Framework Program for Research Infrastructures and members of European Strategy Forum on Research Infrastructures (ESFRI). The key personnel of ATHENA RC (together with their close affiliation to the Univ. of Athens, Dept of Informatics and Telecommunications) have a long and pertinent experience in participating and leading European funded projects with an emphasis on data management topics.

<u>Role in OpenAIRE2020:</u>

A key technical partner in the front-end and knowledge extraction services.

<u>Relevant Projects:</u>

- ESPAS (FP7)
- ARIADNE (FP7)
- MD-Paedigree (FP7)
- OpenDataMonitor (FP7)
- DIACHRON (FP7)
- Lo-Cloud (FP7)

<u>Publications:</u>

- Theodoros Giannakopoulos, Harry Dimitropoulos, Omiros Metaxas, Natalia Manola, Yannis E.Ioannidis: Supervised Content Visualization of Scientific Publications: A Case Study on the ArXiv Dataset. IIS 2013: 206-211
- Harry Dimitropoulos, Herald Kllapi, Omiros Metaxas, Nikolas Oikonomidis, Eva Sitaridi, Manolis Tsangaris, Yannis Ioannidis, "AITION: A Scalable Platform for Interactive Data Mining ", SSDBM 2012, 2012
- Sören Auer, Theodore Dalamagas, Helen E. Parkinson, François Bancilhon, Giorgos Flouris, Dimitris Sacharidis, Peter Buneman, Dimitris Kotzinos, Yannis Stavrakas, Vassilis Christophides, George Papastefanatos, Kostas Thiveos: Diachronic linked data: towards long-term preservation of structured interrelated information. In WOD'12: 31-39
- Manolis Terrovitis, John Liagouris, Nikos Mamoulis, Spiros Skiadopoulos. Privacy Preservation by Disassociation. Proceedings of the VLDB endowment (PVLDB), 5(10), 2012.
- T. Dalamagas, N. Bikakis, G. Papastefanatos, Y. Stavrakas, A. Hatzigeorgiou.Publishing Life Science Data as Linked Open Data: the Case Study of miRBase. In 1st International Workshop on Open Data (WOD), Nantes, France, May 2012.
- Y. Stavrakas, G. Papastefanatos, T. Dalamagas, V. Christophides.Diachronic Linked Data: Towards Long-Term Preservation of Structured Interrelated Information. In 1st International Workshop on Open Data (WOD), Nantes, France, May 2012.
- Manolis Terrovitis, Nikos Mamoulis and Panos Kalnis. Privacy-preserving Anonymization of Set-valued Data. Proceedings of the VLDB endowment (PVLDB), 1(1) 2008.

Key Personnel:

Prof. Yannis Ioannidis [M] is currently a Professor at the Department of Informatics and Telecommunications of the University of Athens. In early 2011 he also became the President and General Director of the ATHENA Research and Innovation Center; in addition, since April 2011, he serves as the Acting Director of the Institute of Language and Speech Processing of ATHENA. He received his Diploma in Electrical Engineering from the National Technical University of Athens in 1982, his MSc in Applied Mathematics from Harvard Universityin 1983, and his Ph.D. degree in Computer Science from the University of California-Berkeley in 1986. Immediately after that he joined the faculty of the Computer Sciences Department of the University of Wisconsin-Madison, where he became a Professor before finally leaving in 1999. His research interests include database and information systems, personalization and social networks, data infrastructures and digital libraries & repositories, scientific systems and workflows, eHealth systems, and human-computer interaction, topics on which he has published over one hundred articles in leading journals and conferences. He also holds three patents. Yannis is an ACM and IEEE Fellow (2004 and 2010, respectively) and a recipient of several awards for teaching excellence. Yannis has been a (co-)principal investigator in over thirty research projects funded by various government agencies (USA, Europe, Greece) or private industry. He is currently an Associate Editor of Information Systems and Journal of Digital Libraries and has been a member of the program committees of over sixty conferences, six times as (co-)chair (ICDE'09, ADBIS'07, EDBT'06, HDMS'03, VLDB'02, VDB'98, and SSDBM'97). Yannis currently serves as the ACM SIGMOD Chair (July 2009-June 2013), following a 4-year term as Vice-Chair, and is or has been a member of several other executive bodies of professional organizations (VLDB Endowment, IEEE TCDE Executive Committee, EDBT Endowment) and Scientific Advisory Boards (Max Planck Institute for Informatics, Greek National Science & Technology Council, Information Technology advisor to the Greek Minister of Health).

Dr. Omiros Metaxas [M] holds BSc-Hons and MSc degrees in Informatics & Telecommunications from the Univesity of Athens, as well as, a PgD in Financial Management from the University of Athens. His research interests include Knowledge Discovery and Decision Support based on advanced machine learning techniques, as well as, distributed data processing. He has been involved in several European projects, including Health-e-Child, OpenAIRE Plus and MD-Paedigree, Human Brain Project as a senior researcher. He has more than 14 years work experience holding key positions in leading software development companies targeting Financialand Trading Information Systems, as well as, Healthcare Information and Management Systems.

Dr. **Manolis Terrovitis** [M] is a researcher at the Institute for the Management of Information Systems of Research Center ``Athena". His research interests include data privacy, anonymization methods and scalable analytics. He has received his PhD from the National Technical University of Athens (2007) and has been with the Department of Computer Science of The University of Hong Kong as a post doctoral researcher (2007-2008). He has published works on anonymization and privacy preservation in some of the most prestigious venues in data management (VLDB, VLDBJ) and Google Scholar reports over 700 citations to his work. He has been involved in several national and EU funded R&D projects and he is currently leading two research projects (MEDA- http://meda.imis.athena-innovation.gr/ and MoDiSSENSE-www.modissense.gr).

Dr. George Papastefanatos [M] is a researcher and Project Manager at ATHENA. He holds a Diploma in Electrical and Computer Engineering (2000) and PhD in Computer Science from the National Technical University of Athens (2009). He is involved as a coordinator and researcher in several EU RTD projects, such as ARCOMEM (FP7-IP, Archiving Web and Social Information), DIACHRON(FP7-IP, Preservation of Linked Data), and national projects such as, EICOS (Management of Linked Dataspaces), SoDaMap (Linked statistical data) and CAP (location-based recommendation services in airports). His research interests lie in the areas of the Data Web, with an emphasis on publishing and preserving linked data, building linked information spaces and applications and Big data regarding data integration, visualization and exploration.

4.1.7   Universitaet Bielefeld (UNIBI)

Bielefeld University Library has a record of significant research infrastructure and network contributions (DRIVER, OpenAIRE, Europeana Cloud).

It has also contributed significantly to shape the German landscape of digital research libraries as well as digital scholarly information services, e.g. through the development of the Digital Library North-Rhine Westphalia "DigiBib", today hosted by the academic library centre "hbz" in Cologne for over 250 libraries. According to the German university rankings and competitions (CHE, BIX) Bielefeld University library is one of the best and most innovative in Germany both in terms of user satisfaction and on account of its pioneering role in the fields of Open Access, Research Data services, and search engine technologies. After releasing the very first policy on Open Access in 2005, Bielefeld University has been the first University in Germany to pass a resolution calling on its academics to make research data easier to find and as accessible as possible to further analysis since 2013.

In an cooperative effort Bielefeld University library is currently supporting new types of research data infrastructures by participating in the Collaborative Research Center (SFB 882) "From Heterogeneities to Inequalities" and with the Center of Excellence Cognitive Interaction Technology (CITEC) at Bielefeld University.

Through its recognised expertise, Bielefeld University Library contributes to leading national and international initiatives, such as participation in guideline development for digital research repository networks (COAR, DRIVER/OpenAIRE, DINI), usage data federations (Knowledge Exchange) and data metrics (RDA-WDS Data Publishing), Current Research Information Systems (Research Core Dataset for Germany) and Data Documentation Initiative (DDI).

The main areas of expertise to be contributed to OpenAIRE2020 is resulting from the work on information infrastructures, specifically on aggregating and networking large numbers of open document repositories. For example the academic search engine BASE, developed and operated by the library, is one of the largest academic search engines providing access to about 60 Mio. Publication records from about 3000 international repositories and e-journals.

Role in OpenAIRE2020:

In the context of the proposal, the UNIBI team will lead the infrastructure operation in terms of aggregation and data curation, support the collection and analysis of usage data and contribute to the semantic representation of scholarly knowledge.

Publications:

- Jahn, N., Fenner, M., Schirrwagen, J.: PlosOpenR -- Exploring FP7 Funded PLOS Publications. Information Services and Use. 33, p. 93-101 (2013).
- Schirrwagen, J., Manghi, P., Manola, N., Bolikowski, L., Rettberg, N., Schmidt, B.: Data Curation in the OpenAIRE Scholarly Communication Infrastructure. Information Standards Quarterly. 25, 13–19 (2013).
- Pieper, D., Summann, F.: Bielefeld Academic Search Engine (BASE) An end-user oriented institutional repository search service. Library Hi Tech. 24, 614–619 (2006).
- Hoogerwerf, M., Lösch, M., Schirrwagen, J., Callaghan, S., Manghi, P., Iatropoulou, K., Keramida, D., Rettberg, N.: Linking Data and Publications: Towards a Cross-Disciplinary Approach. International Journal of Digital Curation. 8, 244–254 (2013).
- Wiljes, C., Jahn, N., Lier, F., Paul-Stueve, T., Vompras, J., Pietsch, C., Cimiano, P.: Towards Linked Research Data: An Institutional Approach. In: García Castro, A., Lange, C., Lord, P., and Stevens, R. (eds.) 3rd Workshop on Semantic Publishing (SePublica). CEUR Workshop Proceedings. p. 27–38. , Aachen (2013).

Related Projects:

- EC-FP7 DRIVER, DRIVER-II, OpenAIRE, OpenAIREplus
- DFG project "Automatic Enhancement of OAI metadata"
- Knowledge Exchange working groups (Interoperability Standards, Virtual Research Environments/Research Tools, Sustainable Business Models for Open Access)

Key Personnel:

Mr. Friedrich Summann, [M], is head of the IT department of Bielefeld University Library and has been responsible for many digital library projects in the past. Currently amongst other projects he is dealing with search engine driven portals and the practical usage of the OAI-PMH protocol regarding harvesting, aggregating and enhancing metadata (for BASE,

OpenAIRE). He co-authored the DRIVER/OpenAIRE Guidelines and the DINI Certificate 2010 and 2013 and chairs the COAR Roadmap for Future Directions for Repositories Interoperability.

Mr. Najko Jahn, [M], coordinates projects and activities at Bielefeld University. He graduated in Library and Information Science and Philosophy at Humboldt-Universität zu Berlin. Najko is mainly interested in statistical computing and its application for digital libraries. To this end, he is co-founder of the LibreCat Software Development Project and rOpenSci co-developer.

Mr. Jochen Schirrwagen, [M], is Research Fellow at Bielefeld University Library since March 2008. He has been involved in numerous DFG and FP7 projects, such as DRIVER-II, PEER, OpenAIRE and OpenAIREPlus. He was formerly working for the department of publishing services at the academic library centre "hbz" in Cologne (2004-2008). Having a scientific background in Computer Engineering his main interests are in the application of metadata information using semantic technologies for the aggregation and contextualization of scientific content.

4.1.8   Universidade Do Minho (UMINHO)

University of Minho (UMinho) is a public higher education institution, founded in 1973 and is one of the so-called "New Universities". A student population of over 18000 together with more than 1100 teaching staff and almost 645 technical and administration staff make the University of Minho one of the biggest Portuguese universities.

University of Minho created its institutional repository – RepositóriUM –in 2003, has established a self-archiving policy of its intellectual output in the end of 2004, and is internationally known as one of the "success stories" on the development of institutional repositories and the promotion of Open Access to scientific literature. In 2008, University of Minho lead the Portuguese national project RCAAP (Repositório Científico de Acesso Aberto de Portugal = Portugal Open Access Science Repository) and has been acting as the scientific and technical coordinator of the project since then. In the last years, University of Minho has been participating in several FP7 projects related with Open Access and repositories (DRIVER II, NECOBELAC, OpenAIRE, MEDOANET, OpenAIREplus, PASTEUR4OA and FOSTER).

Role in OpenAIRE2020:

On OpenAIRE2020 UMinho will be responsible for the WP4 (Support and Training), and will have relevant participation on other tasks, especially in WP5 Dissemination and Advocacy, WP6 International Alignment, WP10 Open Access Services. The previous experience of UMinho on OpenAIRE and OpenAIREplus (where UMinho, beyond being regional NOAD coordinator for the South Region, already coordinates the Helpdesk system), and its current role as coordinator of FOSTER project, demonstrate UMinho's ability to perform its tasks on OpenAIRE2020.

Publications:

From the recent research and development activity of Open Access projects team of UMinho Documentation Services we highlight the following publications and reports:

- Rodrigues, E., Swan, A., Baptista, A., (2013). Uma década de acesso aberto na UMinho e no mundo. Braga: Universidade do Minho, Serviços de Documentação. http://repositorium.sdum.uminho.pt/handle/1822/26144
- Rodrigues, E., Boavida, C., Carvalho, J., Saraiva, R., & Príncipe, P. (2013). Os investigadores em Portugal e a sua relação com o Acesso Aberto à produção científica. Braga: Universidade do Minho, Serviços de Documentação. http://repositorium.sdum.uminho.pt/handle/1822/23391
- Príncipe, P., Rodrigues, E., Rettberg, N., Schirrwagen, J., Loesch, M., Elbæk, M., & Nielsen, L. H. (2013). OpenAIRE guidelines for data archive, literature repository and CRIS managers. Poster presented at International Conference on Dublin Core and Metadata Applications, Lisbon, Portugal. http://repositorium.sdum.uminho.pt/handle/1822/25279
- Rodrigues, E., Boavida, C., Tsoukala, V., & Kalaitzi, V. (2013). Guidelines towards implementing Open Access policies. MedOANet. http://repositorium.sdum.uminho.pt/handle/1822/24377
- Rodrigues, E., Saraiva, R. (2010). Open access in Portugal. In Anglada, L., Abadal, E. (Ed.), Open access in Southern European countries. Madrid: FECYT.

Key Personnel:

The project will involve the participation of the Open Access team of the UMinho Documentation services, coordinated by Eloy Rodrigues:

Mr. Eloy Rodrigues, [M], is the Director of the University of Minho Documentation Services. In 2003 he lead the project to create RepositóriUM - the institutional repository of Minho University and he has directed the project ever since. One of the main focus of his current activity is promoting and advocating Open Access and institutional repositories in Portugal and at international level. In Portugal, Eloy coordinates the technical team at Minho University that is being developing the RCAAP (Repositório Científico de Acesso Aberto de Portugal = Portugal Open Access Science Repository) project since 2008. At the European level, he was member of the EUA (European University Association) Working Group on Open Access, representing the Portuguese Rectors Council, is on the strategic committee of COAR (Confederation of Open Access Repositories) and coordinates the participation of University of Minho in various FP7 funded projects related with Open Access and repositories.

Mr. Pedro Príncipe, [M], is an information and communication professional working at University of Minho Documentation Services on the Open Access Projects Office, on OpenAIRE, OpenAIREplus, NECOBELAC and RCAAP projects. Graduated in New Communication Technologies and with training in information science and documentation, he previously worked during ten years as library technician and web content manager at University of Aveiro. He is

member of the National Executive Council of the Portuguese Association of Librarians, Archivists and documentalists (BAD). Pedro has also experience as trainer on information and communication technology.

Mr. José Carvalho, [M], has a degree in Teaching Portuguese and French languages, specializing in educational resources and a postgraduate degree in Information Systems from the University of Minho. He collaborated in the early stages of the Institutional Repository (RepositóriUM) at the University of Minho and in the project Bumerang, a peer-to-peer application for knowledge sharing. He collaborates at the e-Learning Center at TecMinho as coach and manager of educational technology to support e-learning and m-Learning., and was also involved in the creation of an open repository of educational content. Since July 2008, José works on the Open Access Projects Office at the University of Minho being project manager of RCAAP, and participating in FP7 projects NECOBELAC, OpenAIRE and OpenAIREplus.

Mr. Ricardo Saraiva, [M], works in the University of Minho Documentation Services and is the manager of RepositóriUM - Institutional Repository of the University of Minho. Since 2004 he has been involved in the promotion, communication and advocacy of various activities related to Open Access and has been collaborating with the national project RCAAP (Repositório Cientifico de Acesso Aberto de Portugal) from its start in 2008. Another main focus of his current activity has been promoting Open Access and institutional repositories in Portugal collaborating in projects funded by the EU 7th Framework Programme and related to repositories and Open Access, namely: DRIVER II, NECOBELAC, OpenAIRE and MedOANet.

4.1.9 Stichting eIFL.net SE Netherlands (EIFL)

Stichting eIFL.net (EIFL) is an international not-for-profit organisation based in Europe with a global network of partners - n collaborations with libraries and library consortia in more than 60 transition and developing countries in Europe, Africa, Asia and Latin America, EIFL enables access to knowledge for education, learning, research and sustainable community development. For the last 15 years we had been working very closely with our Eastern European partners. The EIFL-OA programme has been an integral part of EIFL since 2005 and received the 2011 SPARC Europe award for Outstanding Achievements in Scholarly Communication. In 2013, the Accelerating Science Award Program (ASAP) selected EIFL to be one of seven high-impact OA organizations, among public action advocates.

Role in OpenAIRE2020:

EIFL's main tasks in the OpenAIRE2020 project will be the following: to coordinate NOADs network in the 'Region East', lead the Task 4.3 H2020 OA policy training and support in the WP4: Support and Training as well as participation on other tasks and work-packages.

Related Projects:

- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012).
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014): coordinating activities in the 'Region East' and leading a task on community building, outreach and training.
- FOSTER – Facilitate Open Science Training for European Research (2014-2016): leading a work-package on delivering face-to-face training.
- PASTEUR4OA – Open Access Policy Alignment STrategies for European Union Research (2014-2016).

Publications:

- Schmidt, Birgit and Kuchma, Iryna (2012): Implementing Open Access Mandates in Europe: OpenAIRE Study on the Development of Open Access, Universitätsverlag Göttingen
- Kuchma, Iryna (2011): Polityka i strategie otwartego dostępu. Zalecenia dla twórców polityk uczelnianych.// Biuletyn EBIB [Dokument elektroniczny] / red. naczelna Bożena Bednarek-Michalska – Nr 7/2011 (125) październik (Poland): http://www.ebib.pl/images/stories/numery/125/125_kuchma.pdf
- Kuchma, Iryna (2011): Open Access in Eastern Europe: Removing barriers to knowledge sharing.//INFOS 2011 Zborník z 36. medzinárodného informatického sympózia o nových výzvach 21. storočia pre pamäťové inštitúcie Nové rozmery informačného univerza 9. – 12. máj 2011 Stará Lesná – Vysoké Tatry (Slovakia): http://vili.uniba.sk/AK/INFOS2011.pdf
- Kuchma, Iryna (2011): Otvorený prístup vo východnej Európe (Open Access in Eastern Europe).//ITlib. Informačné technológie a knižnice 2/2011 – Otvorený prístup (Slovakia): http://itlib.cvtisr.sk/archiv/2011/2/otvoreny-pristup-vo-vychodnej-europe.html?page_id=792
- Kuchma, Iryna (2010): Open Access Policies: An Overview. // Open access to the achievements of Slovenian scientists: proceedings of the 4th Joint Conference of the Special Libraries Section and the Academic Libraries Section of the Slovenian Library Association; Editors: Igor Zemljič, Maja Božič; Publisher: Zveza Bibliotekarskih Društev Slovenije, 2010 ISBN 9616683152, 9789616683159 Length 192 pages (Slovenia): http://bit.ly/GOtzP8

Key Personnel:

Ms Iryna Kuchma, [F], EIFL-OA Programme Manager, her responsibilities include advocacy of OA to research results and support in developing OA policies, organizing workshops and other knowledge sharing and capacity building events, managing the EC funded projects listed above. She is an Advisory Board member of major OA initiatives and organisations.

Ms Gwen Franck, [F], the EIFL-OA programme coordinator. Her responsibilities include coordinating the EC funded projects listed above. On behalf of Ghent University, she was the one of the Region West coordinators in the OpenAIRE and OpenAIREplus projects. She also works with Creative Commons as Regional Coordinator for Europe.

Ms Rima Kupryte, [F], the Managing Director of EIFL, has over 19 years experience working in library development and under her leadership EIFL has grown into a thriving global organisation with partner libraries and library consortia in more than 60 countries; more information about her is here: http://www.eifl.net/our-organization#rima.

4.1.10 Universiteit Gent (UGENT)

Ghent University has been an advocate for open access, both on a national and level, since the early 2000's. Home university of Herbert van de Sompel, developer of OAI-PMH and ORE, Ghent University was the first Belgian university (2003) to have an institutional repository, and has spread this idea through the country on national meetings and conferences ever since. January 2010 Ghent University has adopted a ID/OA (immediate deposit / optional open access) mandate and in 2013 a research data management approach was started.It is not a coincidence that the mission of Ghent University Library is "Facilitating open knowledge creation". "Open" is a crucial concept in the library's activities.

Ghent University Library started Open Access Belgium (http://openaccess.be), both a website to exchange information on Open Access in Belgium as an informal network of people involved in open access advocacy and open access repositories in Belgium. This network helps Ghent University Library to keep information on open access in Belgium up to date.

Close contacts are established with the National Reference Point for open access in Belgium, Eric Laureys, and the science policy departments of both the Flemish and the Walloon government. A group is formed to advice the NRP and other policy makers on open access, in which Open Access Belgium is involved. This group only started formally in 2013 and will continue its work the coming years. Also contacts with the NCP's are well-established. Ghent University Library will continue to invest resources in this network on open access, in working groups, conferences, round tables and more.

Ghent University Library is a member of LIBER, SparcEurope and COAR, associations with a keen interest or explicit focus on open access and has been a partner in European projects involving open access infrastructure and networking, DRIVER, DRIVER II, OpenAIRE and OpenAIREplus.

Because of the experience in the team and the proximity to the European 's commission seat in Brussels, members of the team are regularly asked to speak on conferences or participate in debates.

Role in OpenAIRE2020:

Ghent University library will act as NOAD for Belgium and will be the regional coordinator of region west. As partner of the networking team Ghent University will mainly be involved in networking activities, such as WP2 (outreach & dissemination) and WP4 (support and training).

Infrastructure:

Ghent University Library hosts, maintains and develops its own repository, in cooperation with other universities. This is open source software, Librecat (http://librecat.org). A user-centric approach is crucial to fulfill the library's mission, consequently information literacy, or more specific, awareness raising on scientific communication and its impact is an important task. The team is keen on sharing its knowledge and cooperate with other development teams.

Relevant Projects:

- DRIVER Digital Repository Infrastructure Vision for European Research (2006-2007)
- DRIVER II – Digital Repository Infrastructure Vision for European Research (2007-2009)
- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)

Publications:

- Franck, G. (2013). Al goud wat blinkt?: een stand van zaken over Open Access publishing. META (ANTWERPEN), 3, 32–34.
- Van Nieuwerburgh, I. (2013). Vrije toegang tot wetenschappelijk onderzoek: logisch, toch? Eos. Eos Wetenschap.
- Franck, G. (2013). Open Access. Wegwijzer voor bibliotheken en documentatiecentra. Politeia.
- Van Nieuwerburgh, I. (2011). De vraag   ); 34–36open Access? META (ANTWERPI
- Bastijns, P., Coppens, S., Corneillie, S., Hochstenbach, P., Mannens, E., & Van Melle, L. (2009). (Meta)datastandaarden voor digitale archieven. (R. Van de Walle & S. Van Peteghem, Eds.). Gent: Universiteitsbibliotheek Gent.

Key Personnel:

Dr. Sylvia Van Peteghem, [F], is Chief Librarian of Ghent University Library, having worked in the library since 1983, mainly in management positions. OA to both scientific information and cultural heritage by all end-users is a priority for her, which led the library to projects such as DRIVER, OpenAIRE, Google Books, BOM-Vlaanderen, and of course, the original set-up and further development of their own IR. She is involved in different policy making groups on the subject, such as SparcEurope.

Mrs. Inge Van Nieuwerburgh, [F], is co-ordinator scientific communication in Ghent University library. Very active in the field of Open Access, she has given several workshops and lectures on the subject. She is widely known to be an enthusiastic speaker and holds OA roadshows at Ghent University in order to promote more self-archiving in the IR, whilst also lobbying for OA mandates. She is member of different working groups and the Flemish library association where issues on scientific communications are discussed.

4.1.11 Universitetet I Oslo (CRIStin)

The CRIStin (Current Research Information System in Norway) organisation was established in January 2011 and is owned jointly by the Norwegian Ministry of Education and Research and The Ministry of Health and Care Services. The organisation is a core service in research information, licence agreements and Open Access.

The CRIS in CRIStin is the national research information system covering   170 research institutions including universities/colleges, research institutes and specialized health care. The CRIS is a core service in the performance based funding of research, and reports around 20 000 articles per year, as well as provide the government and research community with statistics and research assistance.

The CRIStin consortium negotiates licence agreements on behalf of 142 research libraries plus more than 100 public libraries.

CRIStin is also the national coordinator for work on Open Access. CRIStin has from the outset been working on Open Access policies, national Open Access infrastructures and coordination of Open Access work with the different stakeholder organisations in Norway. Being a body owned by the Norwegian government puts CRIStin in a position close to policy makers and funders. The main research funder, the Norwegian Research Council, is responsible for Open Access to research data, whereas CRIStin's main responsibility is research publications. The two organisations work closely on several projects concerning infrastructure and policies for both data and publications

By combining data in the CRIS with infrastructure services for Open Access, CRIStin helps the research community reaching their Open Access goals. CRIStin is responsible for NORA, Norwegian Open Research Archives, a search engine of all Norwegian institutional repositories.

CRIStin is the central data store from where data can be accessed by everyone. The institutions are also using the CRIS for uploading academic papers into their institutional repositories which in turn are being harvested by NORA and shown in a combined search interface. A lookup service on data from Sherpa/Romeo and records in the CRIS identifies potential articles for self-archiving for the repositories

As part of the general information work on Open Access CRIStin is managing the site openaccess.no.

CRISTin has recently been appointed regional NOAD coordinator for the Nordic countries and participates in the EU-funded project PASTEUR4OA - Open Access Policy Alignment STrategies for European Union Research (2014-2016)

Role in OpenAIRE2020:
Regional Coordinator North. NOAD for Norway

Key Personnel:
Mrs. Nina Karlstrøm, [F], is a librarian with a background from the University of Oslo Library and the Norwegian authority for libraries, archives and museums. Nina has been involved in all aspects of CRIStin's OA work since the beginning. She is responsible for CRIStin's participation the SCOAP[3] project and sits on the consortium's Executive Committee

Mr. Lars Wenaas, [M], has a Master of Philosophy with long experience from the Norwegian authority for libraries, archives and museums. Among his assignments was participation in the Europeana project. He has also been working with several technologies and semantic web for several years. Lars has been involved in all aspects of CRIStin's OA work since the beginning and is now responsible for the search and semantic web part of the CRIStin development.

4.1.12 COAR e.v. – Confederation of Open Access Repositories (COAR e.V.)

The **Confederation of Open Access Repositories (COAR)** is a dynamic, fast growing association of repository initiatives. Launched in October 2009, COAR now has a membership of over 100 institutions worldwide from 35 countries in 4 continents. Its mission is to enhance the visibility and application of research outputs through a global network of open access digital repositories.

COAR is already working on a number of aspects of alignment and promotes the interoperability of open access (OA) repositories on an international scale. Through its member institutions COAR is working towards the development of a global Open Access repository community of practice from across counties, regions and disciplines. Our vision is a global knowledge infrastructure of networking Open Access repositories. COAR's working groups address the acquisition of content for repositories, interoperability, and training and support actions. In particular, one working group is exploring best practices and expertise in the area of populating repositories, including the implementation of OA policies and working with publishers. COAR's working group on interoperability has started a discussion process on interoperability with the aim to develop a COAR Roadmap for Global Open Access Repository Interoperability. Moreover, COAR's third working group explores needs for support and training to be addressed in workshops and other activities.

<u>Role in OpenAIRE2020:</u>
Leads WP3 for aligning with international repository initiatives.

<u>Publications:</u>

- Confederation of Open Access Repositories, Working Group 2 Repository Interoperability (ed.) (2011): The Case for Interoperability of Open Access Repositories. July 2011.
- Confederation of Open Access Repositories, Working Group 2 Repository Interoperability (ed.) (2012): The Current State of Open Access Repository Interoperability. 26 Oct 2012.
- Confederation of Open Access Repositories (ed.) (2013): Incentives, Integration, and Mediation: Sustainable Practices for Populating Repositories. June 2013, revised Aug 2013.
- Schmidt, Birgit; Shearer, Kathleen (2012): Licensing Revisited: Open Access Clauses in Practice. LIBER Quarterly, vol 22 (no 3), nov. 2012.

<u>Key personnel:</u>

Mr. Norbert Lossau, [M], is Chairperson of the Executive Board of COAR, the Confederation of Open Access Repositories, and is full-time Vice-President of Göttingen University (UGOE). Within the University directorate, Prof. Dr. Norbert Lossau is in charge of the Faculty of Mathematics, the Faculty of Geoscience and Geography and Computer Science; he is also responsible for research and information infrastructure and facility management. Before, he has been Director of Göttingen State and University Library (SUB). Since 2011 he is also Honorary Professor at the Humboldt-University Berlin / School of Library and Information Science. Norbert Lossau is a member of numerous national and international boards, including the Committee on Scientific Library Services and information Systems (AWBI) of the German Research Foundation, the Prussian Cultural Heritage Foundation Advisory Committee, the working group 'Digital Information in Research and Teaching' of the German Rectors' Conference (HRK), the Board of the German Library Association LIBER, and the Working Group on Data Infrastructures of the G8 + O5 countries. He is scientific coordinator of the European project 'OpenAIRE/plus' and a member of the High Level Strategic Forum of the European Project iCordi in the context of the Research Data Alliance.

Mrs. Kathleen Shearer, [F], is the Executive Director of the Confederation of Open Access Repositories (COAR). Shearer has her Masters of Library and Information Studies (MLIS) from McGill University in Montreal, Canada and has worked in the areas of open access, digital repositories and research data management for over a decade. She is chair of the international Open Access Licenses and Agreements Task Force, which monitors consortial licensing practices for deposit into repositories and co-chair of the Research Data Alliance Long Tail of Research Data Interest Group, which is looking at good practices for managing multidisciplinary data sets in repositories. She is a member of the Task Force on Librarians' Competencies for E-Research and Scholarly Communication. Shearer is also Research Associate with the Canadian Association of Research Libraries and coordinates a project to develop a library-based network for managing research data in Canada. She is also a member of the Steering Committee for Research Data Canada.

Mrs. Katharina Müller, [F], is Head of Office of the Confederation of Open Access Repositories (COAR), based at Göttingen State and University Library. In this role, she coordinates the administration and organizational development. Previously, Katharina Müller worked on the OpenAIRE project in the networking and liaison activities and is further involved in a number of other activities of electronic publishing and internationalization. She holds a Master degree in Sociology and another Master degree in Administrative Sciences. For several years, she worked in the field of European

civic education and training with a special focus on French-German projects before joining the electronic publishing team at Göttingen State and University Library (UGOE) in 2010.

4.1.13 Stichting LIBER (LIBER)

The Stichting LIBER Foundation (Stichting LIBER) is the principal association of the major research libraries of Europe (http://www.libereurope.eu). It was founded as an association in 1971 under the auspices of the Council of Europe and became a Foundation under Dutch law in 2009. Its current membership includes over 400 national and research libraries from more than forty countries, mainly but not only, in the European Union. Its overall aim is to assist research libraries in Europe to support a functional network across national boundaries in order to ensure the preservation of European cultural heritage, to improve access to collections in European research libraries, and to provide more efficient information services in Europe.

LIBER is and has been involved in several EU projects such as ODE (Opportunities for Data Exchange),APARSEN (Network of Excellence in Digital Preservation), Europeana Libraries, Europeana Newspapers,MEDOANET (coordination of Open Access strategies, policies and structures in European Mediterranean countries), PASTEUR4OA (Open Access Policy Alignment Strategies for European Union Research) and FOSTER(Facilitate Open Science Training for European Research).

Scholarly Communication and Open Access are priorities for the LIBER Strategy. Over the coming

three years, LIBER aims to work to reshape the research library; developing new skills and services in open access publishing and research data management to support the changing scholarly communication landscape.

<u>Role in OpenAIRE2020:</u>

Leads the gold OA pilo to on FP7 post-grant publications.

<u>Key Personnel:</u>

Dr. Izaskun Lacunza, [M], is the LIBER Executive Director since 2012. She is responsible for the coordination and accountability of LIBER's Strategic Plan for the coming years, in close cooperation with the LIBER Executive Board and the LIBER office. She has several years of experience in the evaluation of R&D policies and in developing and coordinating scientific information services for the library and research community (CRIS systems harmonization, repositories interoperability, OA projects, etc.). She holds a PhD in Analytical Chemistry.

Mrs. Susan Reilly, [F], coordinates LIBER's participation in European projects, working across a range of projects relating to Open Access, e-science, and digital libraries. She has recently completed a report on the library's roles in data exchange for the ODE (Opportunities for Data Exchange) project and co-authored a study, for the European Commission, to identify recommendations for a single pan-European authorisation, authentication and accounting (AAA) infrastructure for research information resources. She speaks regularly on the future of research data sharing and was the keynote speaker on Open Data at the 2012 LERU Doctoral Summer School on Open Access. She holds an MSc in Information Management from the University of Sheffield, and has several years experience in library management.

4.1.14 Cooperacion Latinoamericana de Redes Avanzadas (CLARA)

CLARA is an International Law Organization (non-profit) whose legal existence dates from December 23, 2003. CLARA's vision is to be a Latin American collaboration system using advanced telecommunications networks for research, innovation and education. CLARA develops and operates the only advanced Internet research and education network (NREN) in Latin America, for regional interconnection, and connected to GÉANT2. CLARA was created as part of the ALICE Project (America Latina Inter Conectada Con Europa), a €12.5-million project funded by the European Commission under the umbrella of the @LIS Programme. Participated in different projects under the FP7. Today is developing the project ELCIRA.

LA Referencia is the result of a project presented by CLARA (Latin American Cooperation of Advanced Networks) and funded by Regional Public Goods of the Inter-American Development Bank (IDB) until December 2013. LA Referencia purpose was to create an agreed strategy, framework agreements and technical pilot for the construction and maintenance of a federated network of institutional repositories of scientific publications. At the end of 2012, an agreement was signed by the Science and Technology governmental authorities of nine Latin American countries. Nowadays it collects scientific articles, Master and PhD thesis and technical reports resulting of R&D projects. Adheres to Driver2 guidelines for interoperability.

<u>Role in OpenAIRE2020:</u>

Participates in WP3, international repository alignment, and carries out interoperability and feasibility of OpenAIRE model and services for LA.

<u>Key Personnel:</u>

Mrs. Carmen Gloria Labbé, [F], is the Deputy General Manager of RedCLARA. Mrs. Labbé graduated in Biology and chemistry and obtained a master in Instructional Design at the Catholic University of Chile in1997. Before joining RedCLARA in 2010, she has been Executive Director of College des Ameriques, which is a programme of Interamerican Universitaire Organization, OUI. She is Vice Chairperson of Executive Board of COAR, Confederation of Open Access Repositories.

Mr. Lautaro Matas, [M], studies of Computer Science at University of Buenos Aires. Technical coordinator, of LA Referencia. Member of Red Iberoamericana de Indicadores en Ciencia y Tecnología (RICYT). In charge of portal Intelligo (a Semantic Information Retrieval Platform, http://www.explora-intelligo.info/. Projects in FP7. Title: SISOB: An Observatorium for Science in Society based in Social Models.

Mr. Alberto Cabezas, [M], exccecutive Secretary of LaReferencia. Master at School of Communication, Information and Library Studies (Rutgers University, New Jersey). Former Director of the Scientific Information Department at the National Council of Science of Technology (Conicyt – Chile). Was for 4 years responsible of SciELO – Chile, the platform of Open Access Journals. Professor since 2002 at the University Alberto Hurtado. Professor since 2012 at the University of Chile: Talleres de Título. Ingeniería Industrial.

Mr. Mark Urban, [M], worked several years inside Institutions of the European Union, namely 3 years as external workforce at the Headquarters of the European Commission (as "prestataire de services") for the PHARE and TACIS, and later on 3 years as Budget Officer (administrative staff) at the European Environment Agency (EEA) in Copenhagen. Since 2006 acting as CFO of CLARA, for various projects: ALICE and ALICE2, and FP6 & 7 Projects such as EELA, EELA2, EVALSO, GISELA, ELLA, CHAIN, and currently CHAIN REDS and ELCIRA.

4.1.15 Universiteit van Amsterdam (UvA)

The Institute for Information Law (IViR), officially established in 1989, is one of the largest research centers in the field of information law in the world. The institute's mission is to further the development of information law into a balanced framework that accommodates the needs and interests of the information society. Scholars of the Institute for Information Law are very active in the fields of privacy law and public sector information law that are now the focus of the legal work in OpenAIRe2020. They also have vast experience in cooperating other institutions and in carrying out multi-disciplinary research. The IViR staff has worked very closely with the partners of OpenAIREplus (University of Göttingen and ICM) and have produced together a report that was very well-received by the European Commission and the research community. For this reason, the three partners look forward to cooperating again in the context of OpenAire2020.

Role in OpenAIRE2020:

Legal studies in WP7.

Publications:

- L. Guibault and A. Wiebe (ed.) Safe to be open: Study on the protection of research data and recommendations for access and usage, OpenAIREplus, Universitätsverlag Göttingen, 2013, 168p.
- L. Guibault, 'Licensing Research Data under Open Access Conditions under European Law', in: D. Beldiman (ed.), Information and Knowledge: 21st Century Challenges in Intellectual Property and Knowledge Governance, Cheltenham: Edward Elgar, pp. 63-93.
- T. Margoni, M. Perry and K. Ramachandran, Clarifying privacy in the Clouds, Proceedings of The Second International Conference on Technical and Legal Aspects of the e-Society, Berntzen, L. (ed), 2011. p. 12-17.
- L. Guibault and C. Angelopoulos (eds.) Open Content Licensing from Theory to Practice, Amsterdam: Amsterdam University Press, 2011

Projects:

- OpenAIREplus (2011-2013), €42,500. Together with Prof. Andreas Wiebe and his colleagues of the University of Göttingen as well as Dr. Kryzstof Siewicz of ICM (Poland), L. Guibault and T. Margoni studied several thorny issues related to the legal status of publications and datasets and promotes particular open-access licensing models for specific contents, so that the desired open access to all resources by several communities can be realized. Central to this effort are issues related to provenance, intellectual property rights, and conditions of reuse.
- Europeana Awareness (2012-2014), €149.000.
- "Digital Content Services for Consumers", commissioned by Executive Agency for DG Health and Consumers, European Commission (2010-2011), €205,000.
- "User-created content: Supporting a Participative Information Society", commissioned by European Commission (2008-2009).

Key Personnel:

Dr. Lucie Guibault, [F], is associate professor at the Institute for Information Law of the University of Amsterdam (UvA). She studied law at the Université de Montréal (Canada) and received in 2002 her doctorate from the University of Amsterdam. She is specialized in international and comparative copyright and intellectual property law. She has carried out research for the European Commission, Dutch ministries, UNESCO and the Council of Europe. Her main areas of interest include copyright and related rights in the information society, open content licensing, collective rights management, limitations and exceptions in copyright, and author's contract law, She has been involved as legal partner in Creative Commons Netherlands since 2005, in projects related to Europeana (EuropeanaConnect and Europeana Awareness) since 2009 and in OpenAIREplus project since 2009.

Dr. Thomas Margoni, [M], is senior researcher at the Institute for Information Law. His research focus concentrates on the relationship between law (primarily copyright, designs, and patents), new technologies, and the Internet, from a comparative and international point of view. He is Marie Curie grant holder, and conducts a variety of research studies at the EU level. Thomas is regularly invited at international conferences, is a member of different initiatives connected with intellectual property, new technologies, and the Internet, and has served as an IP advisor for private and public entities. Since 2008 he has been a non-resident fellow at the Nexa center for Internet and Society.

4.1.16 *European Molecular Biology Laboratory (EMBL)*

The European Bioinformatics Institute is part of EMBL, Europe's flagship laboratory for the life sciences. EMBL-EBI is a non-profit, intergovernmental organisation funded by EMBL member states. We provide freely available data from life science experiments covering the full spectrum of molecular biology, and including the life science literature. As well as this service mission, about 20% of EMBL-EBI is devoted to basic research, and extensive training programmes helps researchers use the resources we provide. Europe PubMed Central is EMBL-EBI's database for the life science research literature (http://europepmc.org). It contains 28 million abstracts and 2.8 million full text articles, about 750,000 of which are "gold" open access i.e. free to read and reuse. One of the key directives of Europe PubMed Central is to integrate the literature with related data. This expertise around literature in particular, together with the open life science data services provided, make EMBL-EBI an excellent match to the tasks outlined in this OpenAIRE H2020 proposal.

Role in OpenAIRE2020:

Leads Data-Literature Integration task in WP7.

Relevant Projects:

- Wellcome Trust Grant No. 098231. UK PubMed Central Phase 3 Developments 2012 - 2016. £1,509,825
- European Commission FP7 Grant No. 283595; OpenAIRE Plus 2011-2014. ~€100,000

Publications:

- Kafkas S, Kim, JH and McEntyre J (2013) Database citation in full text biomedical research articles PLoS One 10.1371/journal.pone.0063184
- Veuthey AL, Bridge A, Gobeill J, Ruch P, McEntyre JR, Bougueleret L, and Xenarios I (2013) Application of text-mining for updating protein post-translational modification annotation in UniProtKB. BMC Bioinformatics 14; 104
- McEntyre, JR et al. (2011) UKPMC: a full text article resource for the life sciences   Nucleic Aci (Database issue): D58–D65. doi: 10.1093/nar/gkq1063
- Lu Z, Wilbur WJ, McEntyre JR, Iskhakov A, Szilagyi L. (2009) Finding query suggestions for PubMed. AMIA Annu Symp Proc. 2009; 396-400
- Bourne, P.E. and McEntyre, J. (2006) Biocurators: contributors to the world of science. PLoS Comput. Biol. 2, e142

Key Personnel:

Dr. Johanna McEntyre, [F], has been a Team Leader for Literature Services at EMBL-EBI since 2009. She is responsible overall for the Europe PubMed Central service. Prior to joining EMBL-EBI, she obtained a PhD in plant sciences, has worked as a journal editor, and spent over 10 years working on services such as PubMed and PubMed Central at the National Library of Medicine in the USA.

Mr. Jee-Hyub Kim, [M], is responsible for the text-mining pipelines within Europe PubMed Central. Previous to his current position, he was a member of Artificial Intelligence group, University of Geneva, and performed several EU- and Swiss-funded text-mining projects.

Mr. Nikos Marinos, [M], is the technical coordinator of the Literature Services at EMBL-EBI. Nikos has 15 years of development experience, with a broad range of skills and programming languages. Prior to joining the EMBL-EBI in 2011, he was most recently a senior developer at the Organisation of Greek Agricultural Insurances (ELGA), Athens. He obtained his MSc in Advanced Information Systems from the University of Glasgow.

4.1.17 Universitaet Bremen (UniHB)

The Centre for Marine Environmental Sciences (MARUM) at the Universität Bremen (UniHB), is a central research facility offering a number of technical and scientific services in the field of ocean research and furthermore developing innovative technology in support for scientific operations. In cooperation with the Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research (AWI) MARUM operates PANGAEA, an information system and data publisher for geoscientific and environmental data. PANGAEA is the designated archive for the journal Earth System Science Data (ESSD) and recommended data repository of several international scientific journals such as "Scientific Data" by the Nature publishing group. Furthermore, PANGAEA co-chairs the ICSU World Data System (WDS) and Research Data Alliance (RDA) working groups on data publication and holds mandates from the WMO (World Radiation Monitoring Center - WRMC). Essential services supplied by PANGAEA are data curation, long-term data archiving and data publication. Data curation includes quality control of metadata and the development of ontologies and vocabularies according to international protocols and standards. Metadata are extensive and each dataset can be cited using a universally unique Digital Object Identifier (DOI). The system is operated in the sense of the Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities which is a follow up to the Budapest Open Access Initiative. Some ongoing projects are under moratorium so that access to data may be restricted, but metadata is always freely accessible.

PANGAEA hosts about 340,000 data sets comprising around 7 billion individual measurements which have been collected during more than 200 European as well as international research projects.

UniHB / PANGAEA will be involved in Task 7.4 - Literature-data integration, specifically responsible for the data citation interlinking service that collects cross-references between dataset persistent identifiers and publication persistent identifiers from publishers, data repositories and the OpenAIRE infrastructure, and the development of resolution services based on those data.

A successful cooperation between PANGAEA and Elsevier along with the correspondent technical implementation enables the cross-referencing of scientific publications and data sets archived as supplements to these publications on the webpages of ScienceDirect and PANGAEA. A direct link brings the ScienceDirect user from the publication to the data sets archived as supplements at PANGAEA (e.g.http://dx.doi.org/10.1016/j.gloplacha.2011.06.006).

PANGAEA is also the recommended depository for data supplements to Elsevier publications in three subject areas (Agriculture and Biological Sciences, Earth & Planetary Sciences, Environmental Sciences). The „Guidelines for Authors" of about 500 Journals recommend depositing supplementary data at PANGAEA and emphasise the cross-linking application.

Infrastructure:
PANGAEA is laid out as a permanent facility, guaranteeing the long-term availability and accessibility of archived data and metadata in secure and machine readable formats.

Role in OpenAIRE2020:
Data broker in WP7 in conjunction with the RDA/WDS data publishing Interest group.

Related Projects:
- PANGAEA coordinates the german, DFG funded projects KomFor (Centre of Competence for Research Data in the Earth and Environmental Science, www.komfor.net) and GFBio (German Federation for the Curation of Biological Data, www.gfbio.org).
- PANGAEA also co-chaires the ICSU World Data System (WDS) and Research Data Alliance (RDA) working groups on data publication.

Publications:
- Schindler, U, Bräuer, B and Diepenbroek, M (2013) Harvesting of Metadata with Open Access Tools. In: Hiller, W, Budlich, R and Redler, R (eds.) ESM Data Archives in the Times of the Grid. Earth System Modelling (6). Springer, Heidelberg, 13-20.
- Schindler, U., Diepenbroek, M. (2008). Generic XML-based Framework for Metadata Portals. Computers & Geosciences 34 (12), 1947-1955.
- Klump, J. Bertelmann, R. , Brase, J. , Diepenbroek, M. , Grobe, H. , Höck, H. , Lautenschlager, M. , Schindler, U. , Sens, I. and Wächter, J. (2006) Data publication in the Open Access initiative, Data Science Journal, 5 , pp. 79-83.

- Dittert, N, Diepenbroek, M, Grobe, H (2001). Scientific data must be made available to all Nature 414 (6862), 393-393.

Key Personnel:

Dr. Robert Huber, [M], is a geologist and information specialist holding a PhD in Marine Geology. He worked several years as information system architect for the aerospace industry and the renewable energy industry. Since 2002 he is employed at the Centre for Marine Environmental Sciences (MARUM) at the University Bremen and responsible for projects in scientific data management and IT development at the PANGAEA working group. He was/is leading the data management work package for ESONET, FixO3 and COOPEUS and was/is involved in the related EU projects EMSO, HYPOX, SIOS and ENVRI.

Dr. Michael Diepenbroek, [M], is a Geologist and Computer Scientist. PhD in Geology at the Free University of Berlin. He conceived and implemented the scientific information system PANGAEA. He is working at MARUM, where he is responsible for the operation of PANGAEA and he is the director of WDC-MARE. He took a leading role in the initiation of the ISCU World Data Center for Marine Environmental Sciences (WDC-MARE), founded in 2001. He is a member of the Strategic Committee, later Scientific Committee of the ICSU World Data System.

Uwe Schindler, [M], is a software architect in the PANGAEA group. Studied Physics at the Friedrich-Alexander-Universität Erlangen-Nürnberg. He is specialist on full text search engines and chair of the project management committee of Apache Lucene. His responsibilities at PANGAEA are middleware development (all software that runs in the backend between user interface and data archive). He maintains the PANGAEA search engine and all its webservices, metadata management, Open Archives Initiative protocols, and data portals.

4.1.18 Rheinische Friedrich-Wilrhelm-Univerisitat (UBONN)

The University of Bonn founded almost 200 years ago, is one of the world's leading research Universities. The Faculty of Mathematics and Natural Sciences at the University of Bonn comprises 8 sections and 29 institutes. The outstanding research performance of the faculty has been recognized by the Excellence Initiative of the German Federal Ministry of Education and Research and the German Research Foundation with the establishment of the excellence cluster "Hausdorff Center for Mathematics". In addition a large number of graduate colleges, DFG (German Research Council) and BMBF (German Ministry of Education and Research) Research Priority Programs are performed at the faculty.

The Institute for Computer Science at the Faculty of Mathematics and Natural Sciences was founded in 1975 as one of the first of its kind in Germany. With the Bonn-Aachen International Center for Information Technology (B-IT), founded in 2002, a joint initiative of the University of Bonn, RWTH Aachen and the Fraunhofer Institutes in Sankt Augustin-Birlinghoven the computer science in Bonn has been expanded and strengthened. Companies in the region support the institute through the Bonn Informatik Gesellschaft (BIG). The Institute offers a Bachelor of computer science as well as an English-language Computer Science master's program and is a major participant in the study programs Life Science Informatics and Media at the B-IT.

The Enterprise Information Systems research group at the Institute for Computer Science at University of Bonn was established in May 2013 and is led by Prof. Sören Auer. The group focuses on research leading to applications of Linked Data for Enterprise Data integration. The group is closely affiliated with the Fraunhofer Institute for Intelligent Analysis and Information Systems (IAIS), where Prof. Auer holds a joint leadership position. Together with Fraunhofer IAIS, UBONN will also explore how the project can be exploited in enterprise settings. The technology Sören develops with his team already fuels many industrial applications, such as the intranet and site search at Daimler AG or the European Commission's open data portal. Prior to assuming the position in Bonn, Prof. Auer founded and led the AKSW research group at the University of Leipzig, with which he maintains a close relationship and continues to be an affiliated faculty member of University of Leipzig.

<u>Infrastructure:</u>

EIS has a cluster of 34 high-performance servers connected to a living lab, which it uses to develop big and linked data prototype systems. In this lab, preconfigured, documented virtual machines with standard enterprise information, semantic web and big data software are made available to MSc and PhD students to kick-start experiments and projects.

<u>Role in OpenAIRE2020:</u>

UBONN will primarily contribute to WP8 by increasing OpenAIRE technical interoperability through integration with Linked Data, engage with additional user communities and explore synergies with and added value to related open content initiatives (e.g. Open Educational Resources).

<u>Relevant Projects:</u>

- Large portfolio of Open Access related RTD projects including LinDA - Enabling Linked Data and Analytics for SMEs by renovating public sector information develops tools and services for Open Data reuse by startups and SME, LOD2 – Creating Knowledge out of Interlinked Data in particular with the development of the comprehensive LOD2 technology stack and the Pan-European Data Portal PublicData.eu, DIACHRON – Managing the Evolution and Preservation of the Data Web
- CEUR Workshop proceedings (http://ceur-ws.org, for which UBONN's Christoph Lange serves as technical editor) is with more than 1,100 volumes and far more than 10,000 articles the largest original European open-access repository
- Access to the German Digital Library (http://ddb.de) developed by the EIS sister department at Fraunhofer IAIS offering open access to Germany's cultural and scientific heritage (millions of books, images, sculptures, music, films etc.)
- One of the largest open-access educational resource authoring platforms: SlideWiki.org with more than 500 editors and 300 open-access courses

<u>Publications:</u>

- Direct access to the most prominent Linked Open Datasets, such as DBpedia, LinkedGeoData and open data portals (DataHub.io, PublicData.eu) and the CKAN data portal software
- Comprehensive LOD2 Linked Data Management stack (http://stack.lod2.eu), developed in FP7-IP LOD2 (coordinated by Sören Auer) and comprises software components for all stages of Linked Data Management,

including extraction (e.g. DBpedia Spotlight), authoring (e.g. OntoWiki), linking (e.g. SILK), enrichment, and quality analysis (continued in Diachron FP7 IP).

- D. Kontokostas, C. Bratsas, S. Auer, S. Hellmann, I. Antoniou, G. Metakides: Internationalization of Linked Data. The case of the Greek DBpedia edition. Journal of Web Semantics (JWS), Vol. 15, Elsevier, 2012.
- Introduction to Linked Data and Its Lifecycle on the Web. by S. Auer, J. Lehmann, A.-C. Ngonga Ngomo in Reasoning Web. Semantic Technologies for the Web of Data, Springer LNCS 6848, 2011, pp 1-75.
- DBpedia: A Nucleus for a Web of Open Data by S. Auer, C. Bizer, G. Kobilarov, J. Lehmann, R. Cyganiak, Z. Ives in Proceedings of the 6th International Semantic Web Conference ISWC 2008.

<u>Key Personnel:</u>

Prof. Dr. Sören Auer, [M] holds the chair of Enterprise Information Systems at University of Bonn. His research interests include social and semantic web technologies, knowledge representation, engineering & management, usability, agile methodologies as well as databases and information systems. Sören is author of over 80 peer-reviewed scientific publications. Sören led / is leading several large-scale collaborative research projects such as the EU-FP7-ICT funded integrated project "LOD2 - Creating Knowledge out of Interlinked Data". Sören is founder (respectively co-founder) of several high-impact research and community projects such as the Wikipedia semantification project DBpedia, the e-learning content crowd-sourcing platform SlideWiki.org or the social Semantic Web toolkit OntoWiki. He is co-organiser of several workshops, programme/track co-chair at OKCON 2010, ESWC 2010, ICWE 2011 and WWW 2012, co-editor of the International Journal on Semantic Web and Information Systems, area editor of the Semantic Web Journal, serves as an expert for industry, the European Commission, the W3C and is member of the advisory board of the Open Knowledge Foundation.

Dr. Christoph Lange, [M], is a senior postdoc in the "Organized Knowledge" department at Fraunhofer IAIS and in the "Enterprise Information Systems" group at the University of Bonn. His research is mainly concerned with enabling a formal but scalable representation of complex domains using linked data technology, as a prerequisite for providing machine support with verification, retrieval, publishing, collaborative authoring, etc. In 2011 he received a Ph.D. from Jacobs University Bremen, Germany, for "enabling collaboration on semiformal mathematical knowledge by semantic web integration" (thesis title). Christoph is a core member of the Ontology, Model and Specification Integration and Interoperability OMG standard development initiative. Recent high-profile events organised by Christoph include the ESWC 2014 challenge on semantic publishing and a track on tools, services and techniques at the 2014 Ontology Summit themed "Applied Ontology meets Semantic Web and Big Data".

4.1.19 JISC (Jisc)

Jisc is the UK's expert on digital technologies for education and research. Its mission is to enable people in higher education, further education and skills in the UK to perform at the forefront of international practice by exploiting fully the possibilities of modern digital empowerment, content and connectivity. Major Jisc's achievements follow:

- Sherpa services, including Sherpa-RoMEO (authors' repository archiving rights), Juliet (index of funder OA policies) and OpenDOAR (directory of open access repositories).
- Digital Curation Centre leading experts in data curation, offering advice, guidance and state-of-the art tools for the implementation of research data management in research institutions.
- IRUS-UK, a national repository statistics service providing standards-compliant usage reports for content across over 50 UK repositories.
- Repository Support Project; a national service offering support and information to UK repository managers.
- Jisc Monitor, a series of testbeds and prototypes designed to improve the management and monitoring of universities' publications to enable them to demonstrate compliance with funder open access mandates.

<u>Infrastructure:</u>

Data infrastructure hosted by the two Jisc designated UK National Data Centres EDINA and Mimas

<u>Role in OpenAIRE2020:</u>

- Offer and maintain excellent, cost-effective and value-added digital network and IT services, shared networks, applications and systems – Jisc provides the UK's NREN.
- Procure and provide customers with access to a wealth of high quality digitised content, engage in practical support and collaborative working with customers, publishers and suppliers to widen availability, including support for Open Access.
- Horizon scan, selectively evaluate, co-develop and prototype digital technologies that present better possibilities for our customers.
- With the cooperaton of Digital Curation Centre (University of Edinburgh) will participate in WP4 to provide training to NOADs in research data management.
- With the cooperaton of EDINA (University of Edinburgh) will participate in WP9 to provide its expertise and consultancy on the OpenAIRE publication broker.
- With the cooperaton of Mimas will participate in WP8 to provide its expertise and consultancy on the OpenAIRE analytics service.

<u>Related Projects:</u>

- eInfraNet; an EC project that developed informed policy positions and proposals on e-infrastructure, covering Green Computing, Cloud Computing and the "open" agenda.
- RepNet; a project to develop a coordinated UK repository infrastructure, including a set of services with a shared approach to data and infrastructure;
- Vocabularies for Open Access (V4OA); developed consensus among a wide range of stakeholders, including publishers, librarians and funders, on a set of metadata that can be used to describe key attributes of open access publications;
- Jisc-APC; a pilot national shared service to help universities better manage open access article processing charges.
- DMP-Online; a tool that enables researchers and those who support them to develop high quality research data management plans, bearing in mind research funder policies in this area.

<u>Key Personnel:</u>

Mrs. Rachel Bruce, [F], is Director Technology Innovation at Jisc. Part of her responsibilities include direction of Jisc research data activity, this includes the Digital Curation Centre (DCC), advice and guidance, research data standards, and development of shared services as well as liaison with research funders, univeristies and publishers. Rachel is responsible for Jisc European engagement and is Head of the Knowledge Exchange Office (Jisc, Surf, CSC, DFG and Deff) which has a focus on open access, research data and sustainable scholarly infrastructures.

Mr. Neil Jacobs, [M], is the Head of Scholarly Communications Support at Jisc. This role implies responsibility for a range of national and international services that support Open Access, including Sherpa RoMEO, Juliet, OpenDOAR and the UK usage statistics service IRUS-UK. He is also responsible for national activities to enable universities and researchers to implement national and international Open Access policies, through infrastructure, advice, information

and guidance, enabling good practice to be shared, and through direct consultation and negotiation with research funders, publishers and other stakeholders. Neil leads the UK contribution to the European PASTEUR4OA project, aiming to align Open Access policies across Member States.

4.1.20 STICTHING SURF (SURF)

SURF has been the collaborative ICT organisation for Dutch higher education and research for over 25 years. SURF facilitates collaboration between ICT professionals, within networks and collaborative knowledge sharing projects in the area of ICT innovation. SURF supports, develops and operates the national ICT infrastructure (e-infrastructure) for higher education and research. As of 2011, SURF has been responsible for designing the Dutch e-infrastructure for researchers. The SURF organisation consists of the SURF holding and its four operating companies SURFnet, SURFmarket, SURFsara and SURFshare.

The holding organisation focuses on administrative harmonisation and the stimulation (or promotion) of ICT innovations in higher education and research. Services are provided through SURF's operating companies. SURF and the Netherlands Organisation for Scientific Research (NWO) are jointly responsible for establishing the Netherlands eScience Center.

Infrastructure:

With significant contributions by SURF important parts of the e-infrastructure for Dutch HE have been realised. Milestones include: the OpenAIRE NOAD (Utrecht University), the coupling of the national research portal NARCIS to OpenAIRE, the development of the HBO Kennisbank, the research portal for Dutch universities of applied science, SURFconext, a well-developed technology for identification, authentication and authorisation, and Sharekit, a SaaS based research repository service for the same universities.

Role in OpenAIRE2020:

Within WP7, Scholarly Communication R&D, SURF will be the leader of a task 7.2 dealing with the measurement of Open Access. In this task SURF will be supported by the CWTS in Leiden, The Centre for Science and Technology Studies, which studies the dynamics of scientific research and its connections to technology, innovation and society.

Within WP5, a Gold Open Access Pilot, SURF will contribute to two tasks: Policies and Roadmapping (5.1) and Promotion and Engagement (5.4). Within the pilot SURF will collaborate with NWO and the Radboud University in Nijmegen.

Relevant Projects:

- OpenAIRE (FP7)
- PEER (FP7)
- eInfraNet (FP7)
- SIM4RDM, which together cover all of the the above-mentioned themes.

Publications:

- Rapport: A project exploring Open Access monograph publishing in the Netherlands. Available here: http://www.surf.nl/kennis-en-innovatie/kennisbank/2013/rapport-a-project-exploring-open-access-monograph-publishing-in-the-netherlands.html
- Rapport Monitor Nederlandse onderzoek repositories 2011. Available at: http://www.surf.nl/kennis-en-innovatie/kennisbank/2012/rapport-monitor-nederlandse-onderzoek-repositories-2011.html

Key Personnel:

Mr. Marc Dupuis, [M], has been programme manager at the SURF holding level for 4 years. He has coordinated a large number of e-research projects related to Open Access, Support and Data. Marc studied English and Slavic Languages at Leiden University and has a PhD in experimental phonetics. From 1987 until 2010 Marc worked in different ICT related functions at the universities of Leiden and Groningen.

Mr. Paul Wouters, [M], is director of the CWTS (SURF's subcontractor) - Centre for Science and Technology Studies at Leiden University and professor of scientometrics in Leiden. He is also visiting professor of Cybermetrics at the University of Wolverhampton. He has published on the history of the Science Citation Index, on scientometrics and on the way the criteria of scientific quality have been changed by citation analysis. He is also interested in the role of information and information technologies in the creation of new scientific and scholarly knowledge. His most recent book is Virtual Knowledge, a collection edited in collaboration with Anne Beaulieu, Andrea Scharnhorst and Sally Wyatt, published by MIT Press (2013).

Mrs. Natalia Grygierczyk, [F], is Director of Radboud University Library (SURF's subcontractor). She leads the digitisation of the library services and is responsible for Radboud University's Open Access programme. As member of the national Dutch Open Access Working Group she is involved in many OA initiatives in cooperation with the Royal Netherlands Academy of Arts and Sciences and the National Library of the Netherlands. She is also member of the Dutch Library Policy Group on Innovation of Knowledge Infrastructure and member of Liber's Working Group on Scientific Information Infrastructure. In the past she was, amongst others, Managing Director of University College Utrecht and Head of the Innovation Department of the Utrecht University Library, where she created Open Access Services for the university.

Margreet Bouma   [F] is the senior policy officer coordinating the Open Access policy within the Netherlands Organisation for Scientific Research (NWO). The Open Access policy was designed in 2009; the implementation started in 2010 with the introduction of the Incentive Funds for Open Access Publications, Open Access sessions in scientific conferences, and for starting new Open Access Journals (or changing business models towards Open Access). Her task is also to maintain and develop contacts with colleague research funders in Europe and world wide. She is a member of the Science Europe Open Access Working Group Publications. In 2013 she chaired the project team that produced the policy document on data management and Open Access to data in NWO. In the past she was programme officer of research programmes in the social sciences. At present she is a staff member of the central department of NWO; one of her tasks is policy development with regard to the eight research performing institutes of NWO.

4.1.21 Koninklijke Nederlandse Akademie van Wetenshappen-Knaw (DANS-KNAW)

DANS promotes sustained access to digital research data. For this purpose, DANS encourages researchers to archive and reuse data in a sustained manner, e.g. through the online archiving system EASY. DANS also provides access, via NARCIS.nl, to thousands of scientific datasets, e-publications and other research information in the Netherlands. In addition, the institute provides training and advice, and performs research into sustained access to digital information. Driven by data, DANS ensures that access to digital research data keeps improving, through its services and by taking part in national & international projects and networks. DANS is an institute of the Royal Netherlands Academy of Arts and Sciences (KNAW) and the Netherlands Organisation for Scientific Research (NWO). As part of its mission, DANS supports the Open Access principle, while being aware of the fact that not all data can be freely available and without limitations at all times. Therefore, DANS applies the principle 'Open if possible, protected if necessary'.

Role in OpenAIRE2020:

Regional Thematic coordinator for RDM. Participates in data-literature task in WP7.

Relevant Projects:

- DRIVER II
- OpenAIREplus

Publications:

- Lies, Damned Lies and Research Data: Can Data Sharing Prevent Data Fraud? Peter Doorn, Ingrid Dillo, René van Horik. In: International Journal of Digital Curation 8 (1) (June 20, 2013). doi:10.2218/ijdc.v8i1.256
- Woutersen-Windhouwer, S., Brandsma, R., Hogenaar, A., Hoogerwerf, M., Doorenbosch, P. ,Dürr, E., Ludwig, J., Schmidt, B., Sierman, B. "Enhanced Publications - Linking Publications and Research Data in Digital Repositories" doi:10.5117/9789089641885
- Breure, L., Voorbij, H., Hoogerwerf, M.. Rich Internet Publications: "Show What You Tell". Journal of Digital Information, North America, 12, mar. 2011. Available at: <http://journals.tdl.org/jodi/index.php/jodi/article/view/1606/1738>
- Hoogerwerf, M., Lösch, M., Schirrwagen, J., Callaghan, S., Manghi, P., Iatropoulou, K., Keramida, D., Rettberg, N. Linking Data and Publications: Towards a Cross-Disciplinary Approach. 2013, Vol. 8, No. 1, pp. 244-254 doi:10.2218/ijdc.v8i1.257

Key Personnel:

Dr. Peter Doorm, [M], holds a PhD in Human Geography (Utrecht University). He is director of DANS and has been involved in many national and European projects in the field of permanent access to research data and other information.

Dr. Ingrid Dillo, [F], has a PhD in History (Leiden University) and is specialised in policy aspects regarding research data (such as cost models, data management, data publication and certification of digital repositories). Ingrid is now Head Policy Development and Communication at DANS.

Dr. Marjan Grootveld, [F], is project manager and senior policy consultant at DANS. Enabling the re-use of knowledge, information, and data is the common element in her career, ranging from corporate knowledge management via red tape reduction in eGovernment to sustainable data management in academia.

Mr. Maarten Hoogerwerf, [M], is involved with the topics of persistent identifiers and the integration of research data with publications since 2007. Since 2007 they have been active contributors to these topics in the context of e.g. DRIVER-II, the SURFshare programme and OpenAIREplus.

Mr. Marnix van Berchum, [M], was in recent years mostly involved with projects related to Open Access and innovations in scholarly communications (e.g. OpenAIRE). At DANS he works on the Europeana Cloud (eCloud) and CLARIN-NL projects, and the data archive. He gained experience on institutional, national and international level.

4.1.22 Technische Universiteit Delft (TU Delft)

Delft University of Technology (TU Delft), founded in 1842, is the oldest, largest and most comprehensive university of technology in The Netherlands. It offers a wide variety of education in Science, Engineering and Design. The university is renowned for its high quality of research and teaching. The university cooperates with many other educational and research institutions, both in the Netherlands and abroad. TU Delft has numerous contacts with governments, trade associations, consultancies, industry and small and medium-sized companies.The University Library is the largest library of technology in The Netherlands. The Library serves the TU Delft community as well as other universities, non-profit R&D, independent scholars and, as far as allowed by the providers, business R&D and SME's. TU Delft Library is a founding member of DataCite and a regional office for the Netherlands. TU Delft Library has established DataCite Netherlands to serve as a central research dataset registration service that will enable Dutch research organizations to register research datasets and assign digital object identifiers (DOIs) to them. TU Delft is a supporter of Open Access since 2005 when the Berlin Declaration on Open Access was signed. The Library developed tools in order to promote Open Access: developing and building institutional and subject repositories and an Open Access fund for journals and books. The TUD Library includes the 3TU.Datacentrum (http://datacentrum.3tu.nl/en/home/). The 3TU.Datacentrum is an initiative of the three technical universities in the Netherlands (Delft, Eindhoven, Twente). The 3TU.Datacentrum created and implements a training called Data-Intelligence (a discipline independent, train the trainer concept on data management and Open Access of research data) which is seen as a best practice by DCC and JISC. 3TU.Datacentrum is also a member of the advisory board of the White Rose Consortium project 'Managing Research Data' (http://www.whiterose.ac.uk/). The 3TU.Datacentrum offers researchers permanent access to research data; advice and support on data management; a reliable, long-term storage facility for scientific and academic research data; options for linking publications to underlying data; improved search visibility and citing for research data. In 2013 3TU.Datacentrum founded Research Data Netherlands, together with DANS, aiming to promote the sustainable archiving and reuse of research data.

Infrastructure:

The TU Delft Library has set up a programme of Research Support. Using a digital platform Research Support Portal it brings research-related support services closer to the user in a logical and coherent way. In this way it increases the visibility of research-related support services on topics including Open Access, Open Science, Copyright and Intellectual property, Research Data Management, Publishing Research Data, Publishing strategy, Collaboration environments, etc.

Role in OpenAIRE2020:

NOAD for the Netherlands. Participates in data-literature integration task in WP7.

Relevant Projects:

- The creation and implementation of a training called Data-Intelligence (a discipline independent, train the trainer concept on data management and Open Access of research data): http://datacentrum.3tu.nl/en/what-we-offer/course/
- Partner in the KP7 funded project FOSTER – Facilitating Open Science Training for European Research (http://fosteropenscience.eu/.)
- The creation and implementation of a Research Support Portal as a window for research-related support services at TU Delft.

Publications:

- Data-Intelligence Training for Library Staff, Ellen Verbakel, Madeleine de Smaele, Noordegraaf Marina and Nicole Potters. Proceedings DigCurv 2013
- Rombouts, J. and Princic, A. 2010. Building a data repository for heterogeneous technical research communities through collaborations. Purdue Libraries. International Association of Scientific and Technological University Libraries, 31st Annual Conference. http://docs.lib.purdue.edu/iatul2010/conf/day2/10

Key Personnel:

Ms. Ellen Verbakel, [F], is a data librarian. She co-developed the training 'Data intelligence 4 Librarians' and is now trainer/coach in the training 'Essentials 4 Data Support'. Conducted projects with DANS like 'Selection of Research Data, Guidelines for appraising and selecting research data'.

Ms. Madeleine de Smaele, [F], has been involved in the creation of the 3TU.Datacentrum from the start in 2008. She actively contributed to the development of the course Data Intelligence 4 Librarians. The aim of this course is to

contribute to the professionalization and positioning of the library and its employees to be a partner in the support of data-intensive science, data storage and data reusability.

Mr. Jeroen Rombouts, [M], works at the TU Delft Library and he has been involved in several national projects on research data management issues. As managing director of the 3TU.Datacentrum Jeroen is also a key player in making and implementing Dutch policy concerning research data.

Ms. Alenka Princic, [F], joined the TU Delft Library in 2009 where she is involved in topics such as research data management and archiving, research support, open access to scientific output, linking publications with research data, Institutional Repositories, and other projects such as Research Support Portal. Her current position at the Library is Head of Research Support.

Mr. Just de Leeuwe, [M], is Publishing Advisor at TU Delft Library. His advisory work includes creating guidelines and implementation framework for Publishing Services at TU Delft, Open Access funding, publishing, and dissemination. He is a consultant and owner of a customized website for students, lecturers, scientists concerning copyright and intellectual property.

Mr. Maurice Vanderfeesten, [M], is an expert in linking publication & data together and has extensive knowledge about persistent object identifiers.

4.1.23 Universitaet Wien (UNIVIE)

Vienna University Library and Archive Services provide a rich service infrastructure to support members of the University of Vienna in their research, teaching and learning. Founded in 1365, the library is the oldest university library in the German-speaking world. With holdings that include about 7 million bound volumes as well as archive materials and manuscripts, it is also by far the largest academic library in Austria. In order to provide the academic community of Vienna University with scholarly and scientific information, the library subscribes to around 9,000 journals in print form and offers access to nearly 1,300 databases and over 62,000 electronic journals and other electronic services.

Over the years Vienna University Library has acquired expert knowledge and experience in the area of technical innovation of academic library services. The Library has built an institutional repository for Vienna University with the aim to harvest and preserve e-publications and documents with web applications. The infrastructure has been devised so that the interoperability with other repositories is ensured. Vienna University Library offers the academic community of Vienna University digital asset management, self archiving and collaborative archiving solutions with a view to the long term preservation of data. Library services include training librarians, academic and administrative staff in managing, retrieving and distributing electronic materials from institutional and distributed repositories. With "Phaidra" (Permanent Hosting, Archiving and Indexing of Digital Resources and Assets), Vienna University Library has not only developed a repository that interoperates with the University of Vienna CRIS system but one that is the core of the institutional repository of the University. This digital asset management system has also been developed with particular view of open access policies. There are initiatives to develop Data Management Plans, metadata schemes for research data and involvement of learning data within the Phaidra system. Phaidra international is not only implemented at several local institutions, but is in use internationally, including universities in Serbia, Montenegro and Italy. It also is offered as content aggregation system to the Austrian scientists participating to EU-funded projects. Phaidra is member of COAR (Confederation of Open Access Repositories).

Open Access activities: the University of Vienna has established an Open Access Office which is organizing OA activities at the University of Vienna. It aims to support and advise all members of the University as well as being involved in co-operation with national and international agencies regarding this discussion. The University of Vienna is also a signatory to the Berlin Declaration. An interdisciplinary working group was installed. Since its establishment in 2008 the working group has been busy implementing an appropriate infrastructure for open access publishing at the Vienna University, which is closely linked to the advisory services. Participating colleagues bring expertise from different departments of the University Library. Also an Open Access Board was founded in 2012 to give strategic direction of OA at the University of Vienna. Members of this Board are from the Rector's office, University Library, research Service and Carrier Development Quality Assurance and Researchers from five different departments. The University of Vienna is involved in SPARC Europe, COAR, SCOAP3, arXiv.org, LIBER, openaccess.net, OpenAIRE (Presently a research study, called "Processes for the Sharing of Research Data" is in progress, which was assigned by the NOAD Austria.) and OANA (Open Access Network Austria).

Role in OpenAIRE2020:

NOAD for Austria. On OpenAIRE2020 the University of Vienna can offer expertise in technical, legal, strategic and content issues in regard to Open Access. The University of Vienna Library is the coordinator of a Nation wide project "E-Infrastructures Austria" (25 partner institutions) and is in close contact with the NRP of Austria, Peter Seitz, and the main funding bodies of the country (FFG, which is the NCP for Austria and FWF). This and the wide established network as well as the leading position of the University of Vienna within Austria makes the University team well suited for acting as the regional OA Helpdesk. Role in OpenAIRE and OpenAIREplus: National Open Access Desk.

Related Projects:
- EOD – E-Books on Demand @ Culture (2009 – 2014)
- Tempus – New Library Services of Western Balkan Universities (2010 – 2012)
- Europeana Libraries – The Project made 5 million digital objects from 19 leading European research libraries freely accessible via The European Library and Europeana websites (2011 – 2012)
- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)
- OANA – Open Access Network Austria (started 2012)
- SCOAP3 – Sponsoring Consortium for Open Access Publishing in Particle Physics (started 1. Jan 2014)
- E-Infrastructures Austria – a nation wide project with 25 partners, coordinated by Vienna University Library (2014 – 2016)

Publications:

- Budroni, Paolo; Markus Höckner (2010): Phaidra, a Repository Project of the University of Vienna; in: iPRES 2010, 7th International Conference on Preservation of Digital Objects, Vienna.
- Blumesberger, Susanne; Gerda McNeill (2012): Open-Access-Aktivitäten der Universitätsbibliothek Wien. In: Mitteilungen der Vereinigung österreichischer Bibliothekarinnen und Bibliothekare.. Axams: Steiger, 65 (2012) 2, S. 187-197.
- Blumesberger, Susanne (2013): Repositorien: mehr als Archivierungsorte. Am Beispiel von Phaidra im Bereich der Kinder- und Jugendliteraturforschung. In: biblos. Beiträge zu Buch, Bibliothek und Schrift, Heft 62, Wien: Phoibos 2013, S. 141-157.
- Schmidt, Nora (2014): Der Goldene Weg des Open Access zum funktionalen Publikationswesen. Handlungsoptionen für die Universität Wien
- Sànches Sòlis, Barbara (2014): Factors for Enabling Sharing and Reuse of Research Data, A study performed by NOAD Austria OpenAIRE/OpenAireplus

Key Personnel:

Mrs. Maria Seissl, [F], Director, Vienna University Library and Archive Services. She worked at Innsbruck University Library from 1991–1999 and as deputy director of Vienna University Library from 2000–2003. Since 2004 she has been the director of Vienna University Library and Archive Services. Maria Seissl taught German as a foreign language at Kingsway Princeton College in London and at the University of Leeds, England. She is administrative head of the Library and Information Studies Programme at Vienna University as well as vice-chair of the Council of Austrian University Libraries (ubifo).

Mrs. Gerda McNeill, [F], has been working at the Vienna University Library since 2004. She graduated in 2009 in communication sciences and political sciences and holds a Diploma in Library and Information Studies. During her career she has worked within several different departments of the University Library, including the Sociology and Politics Library, the Psychology Library and the administration office of the director of the University Library. She represents the NOAD Austria for the OpenAIRE/OpenAIREplus projects since 2012; she is also responsible for supporting other EU-Projects the Vienna University Library is involved with. Since 2013 she is the Head of the Sport Science Library of the University of Vienna. Ms McNeill is member of the OANA (Open Access Network Austria) network, the Open Access working group at the Vienna University Library and she is involved in the Nation wide project "E-Infrastructures Austria", which started at the beginning of 2014.

Mrs. Susanne Blumesberger, [F], Phaidra Management at the University of Vienna and Customer Manager for the university's digital asset management system Phaidra. She graduated with a Dr. Phil. in 1999, in German studies and communication sciences. Ms Blumesberger is also a member of the Open-Access-Group at Vienna University Library. She is involved in the Nation wide project "E-Infrastructures Austria", which started at the beginning of 2014.

4.1.24 Institute of Mathematics and Informatics at the Bulgarian Academy of Science (IMI BAS)

The Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences (IMI-BAS) is a leading Bulgarian centre for education, scientific research and interdisciplinary applications. Since its establishment in 1947 it is conducting an efficient, long‑range, consistent policy related to the fundamental trends in the development of mathematics, informatics, information technologies and their socially-oriented applications. IMI-BAS has a total staff of 209 (183 researchers, including 113 full and associate professors) in 14 departments. The IMI researchers have a large number of original publications (about 250 scientific papers annually most of them in high profile journals and in proceedings of prestigious conferences). Relevant past experience: In the last 5 years IMI-BAS is a partner in the development of more than 12 national and European projects in cultural and scientific heritage preservation. IMI-BAS' scientific team includes highly qualified specialists – researchers in the field of ICT, digitization, software applications and technologies for representation of cultural and scientific information. IMI-BAS participates in OpenAIRE and OpenAIREplus projects. In the last five years IMI-BAS acts as a national coordinator of activities for open access to scientific information and data and provide support for academic institutions and researchers. IMI-BAS works to develop the research infrastructure and digital repositories for researchers, educators, public bodies and companies who need contemporary scientific and education information and resources. This foster integration between academia, the public sector and industry strengthen the institutional links between all major research and education organizations. IMI-BAS organizes every year a national information day "Open access to scientific information" and invites representatives of national institutions (including the Ministry of Education and Science, Ministry of Transport, Information Technologies and Communication, Ministry of Culture), responsible for the development of open access policies, representatives of Bulgarian institutions (research institutes and universities), active in the implementation of open access policy and program, specialist at UNESCO Department "Open Access and scientific information and ICT and science."

Infrastructure:

In the moment, there are six Open Access Bulgarian repositories, that IMI-BAS is related to. There are 33 Bulgarian Open Access journals listed in the Directory of Open Access Journals (DOAJ).

Role in OpenAIRE2020:

NOAD for Bulgaria

Relevant Projects:

- OpenAIRE, Open Access Infrastructure for Research in Europe
- OpenAIREplus, 2nd-Generation Open Access Infrastructure for Research in Europe
- EuDML, The European Digital Mathematics Library

Publications:

- Peter Stanchev, Georgi Simeonov, Fourth National Information Day and Workshop: Open Access to Scientific Information and Data, in UNESCO Digital Presentation and Preservation of Cultural and Scientific Heritage Conference, Sofia, issue: III, 2013, pages: 243-246
- Peter L. Stanchev, Multimedia Standards. History. State of Art, T.-h. Kim et al. (Eds.): FGIT 2011, Springer-Verlag Berlin Heidelberg 2011, LNCS 7105, pp. 39-42, 2011
- Peter L. Stanchev, OpenAIREplus, International Conference on Digital Preservation and Presentation of Cultural and Scientific Heritage, DIPP 2011, Veliko Tarnovo, Bulgaria, 11-14 September, 2011, 178
- F. Falchi, C. Gennaro, P. Savino, P. Stanchev, Efficient Video Stream Filtering, IEEE Multimedia, January-March 2008, 52-61

Key Personnel:

Dr. Peter Stanchev, (male): Professor and Head of the Information Systems Department at the IMI-BAS and Professor at Kettering University, Flint, Michigan, USA. He has published 2 books, more than 200 chapters in monographs, journal and conference peer-reviewed papers, more than 200 conference papers and seminars, and has more than 1300 citations, h-index = 18, i-10 index = 30, impact factor 75.52. His research interests are in the field of multimedia systems, database systems, multimedia semantics, education and medical systems. He serves on many database and multimedia conference program committees, is currently editor and chief of two international journals, and is also on the editorial board of several journals. He is the Bulgarian coordinator for OpenAIRE and OpenAIREplus EU projects.

Dr. Radoslav Pavlov, [M], Professor at IMI‑BAS, Deputy Director of IMI‑BAS. His major research interests are in the fields of Human Language Technologies, Knowledge Technologies and Management, Semantic WEB services,

Semantic Information Processing, Digital Libraries and Content Management Systems. In the latest years he was the site leader of 9 national and international projects - ICT-PSP EuDML "The European Digital Mathematics Library", EU FP7 MONDILEX "Conceptual Modelling of Networking of Centres for High-Quality Research in Slavic Lexicography and Their Digital Resources", CEE MONITOR II.

4.1.25 Ruder Boskovic Institute (RBI)

Rudjer Boskovic Institute (RBI) is the largest Croatian research centre in sciences and science applications. RBI has organized infrastructure, which includes the largest Library in natural sciences in Croatia, computing centre, and large number of valuable experimental devices. The RBI Library is promoting OA since 1996 and it is very active in disseminating OA initiatives to the Croatian academic community. In 1997 Library started with the project Croatian Scientific Bibliography CROSBI (http://bib.irb.hr/) which was designed to archive bibliographic records about the whole scientific output of Croatian researchers (408.000 records and more than 25.000 full-text documents). Library is also active participant in the creation and development of the Portal of Scientific Journals of Croatia - HRČAK (http://hrcak.srce.hr/), which currently contains 350 scholarly and professional OA journals. In October 2012 Library published Full-Text Institutional Repository of the Rudjer Boskovic Institute (FULIR - http://fulir.irb.hr/) which strive to gather the whole scientific output of the Institute.

Role in OpenAIRE2020:

NOAD for Croatia.

Relevant Projects:

- 2011-2014   OpenAIREplus – 2nd Open Access Infrastructure Research for Europe;
- 2011-2014   Support for Establishment of National/Regional Social Sciences Data Archives (SERSCIDA)
- 1997-2014   Croatian Scientific Bibliography (CROSBI) at http://bib.irb.hr - comprehensive bibliography with more than 400.000 records, including more than 25.000 full-text articles;
- 2006–2014   "HRČAK – portal of Croatian open access journals" (in cooperation with University Computer Centre SRCE) with more than 300 journals;
- 2001-2014   "Who's Who in Science in Croatia" with 7500 scientists at http://tkojetko.irb.hr;
- 2007 – 2008 "Pair of compasses (SESTAR): scientific equipment in Croatia" – repository of scientific equipment in Croatia;

Publications:

- Stojanovski, J. Visibility and (alt)metrics of the Croatian Open Access (OA) journals // The 8th Munin Conference on Scholarly Publishing 2013 - Entering the Next Stage Presentations (web) / Frantsvåg, Jan Erik (ur.). Tromso : University of Tromsø - The Arctic University of Norway, 2013.
- Macan, B; Fernández, Gladys Vanesa; Stojanovski, Jadranka. Open source solutions for libraries: ABCD vs. Koha. // Program-electronic library and information systems. 47 (2013) , 2; 136 -154 .
- Stojanovski, J. Supporting Open Access nationwide // The Fifth Belgrade International Open Access Conference Proceedings / Šipka, Pero, editor(s). Beograd, 2012.
- Stojanovski, J.; Petrak, J.; Macan, B. The Croatian national open access journal platform. // Learned Publishing. 22 (2009) , 4; 263-273.
- Vodopijevec, A.; Macan, B. Implementation of digital repository at the Ruđer Bošković Institute: organizational and technical issues // The Future of Information Sciences : INFuture2009 : Digital Resources and Knowledge Sharing / Stančić, H. ; Seljan, S. ; Bawden, D. ; Lasić-Lazić, J. ; Slavić, A. (ur.). Zagreb : Department of Information Sciences, Faculty of Humanities and Social Sciences, University of Zagreb, 2009. 657-666

Key Personnel:

The project will involve the participation of the library team of the Rudjer Boskovic Institute, coordinated by Jadranka Stojanovski and with particular involvement of Alen Vodopijevec, Bojan Macan and Ivana Pavelić.

Mrs. Jadranka Stojanovski, [F], is assistant professor at University of Zadar, Department for Information Sciences. Prior to joining University of Zadar in 2009, she was head of the largest research library in Croatia – Rudjer Boskovic Institute Library where she is still working part time. She holds BSc degree in physics and MSc and PhD in information sciences. Her professional career is focused to the promotion of the Open Access to scientific information and organization of information about research in Croatia. She had directed many OA projects like Croatian Scientific Bibliography CROSBI, Who's Who in Science in Croatia (http://tkojetko.irb.hr), SESTAR - repository of scientific equipment (http://sestar.irb.hr), HRCAK portal for Croatian open access journals, and others. Jadranka provides leadership and direction on a range of scholarly communication, open access, institutional repositories, knowledge organization, and research information systems. She is the member of the OA Committee at Ministry of Science, Education and Sports, member of the Open Access Group (Croatian Open Access Declaration), and National Point of

Reference on scientific information for Croatia. She is also representative and national coordinator in FP7 project OpenAIRE Plus.

Mr. Alen Vodopijevec, [M], graduated in 2003 at the University of Zagreb, Faculty of Philosophy in Sociology. Today he is a systems administrator and programmer at RBI with 5 years experience in projects related to open access movement in science. His work is focused on open source software technologies as support for creating open access online services. He is involved as system and database administrator in national bibliography project CROSBI and at the Rudjer Boskovic Institute he is coordinating project named "Digital repository of Rudjer Boskovic Insitute". He also has a key role in preparing a context for establishing a Social Science Data Archive in Croatia within the framework of SERSCIDA project. His skills and specialization includes: systems, datababase and computer networks administration, software architecture and programming as well as research dana management workflow and processes.

Mr. Bojan Macan, [F], graduated in 2005 at the University of Zagreb, Faculty of Philosophy in Information Sciences and Croatian Language and Literature and currently he's a PhD student at Doctoral study of Information Sciences at the same Faculty. He is head of the Ruđer Bošković Institute Library, where he works since 2005. His special interests are connected with digital repositories, current research information systems, open access, scholarly communication, bibliometrics, library organization and management and implementation of new technologies in libraries. He is involved in implementation and development of the "Full-text institutional repository of the Ruđer Bošković Institute - FULIR" and in promotion of open access at the RBI and in Croatia.

Mrs. Ivana Pavelić, [F], graduated 2010 at University of Zagreb, Faculty of Electrical Engineering and Computing, major Computing Science. Her career started in 2010 at company Aukcije Zagreb as a web developer (PHP, JavaScript, jQuery, HTML, CSS) and database administrator (MySql). She currently works as a web developer and database administrator. Her skills and specializations are: database administration and database programming in Mysql, PostgreSQL, programming in PHP, JavaScript, Python, Ajax, C#, C, MVC design patterns and OOP programming paradigm.

4.1.26 University of Cyprus (UCY)

The University of Cyprus (UCY) was established in 1989 and accepted its first students in 1992. It currently has about 6500 students and it aims to count 10 000 students by 2020. It has 11 Research units. In 2008 UCY received the EFQM "Committed to Excellence" Award. UCY is one of the 52 European universities to which the European Commission awarded the DS Label in May of 2009. UCY has a significant involvement in the implementation of European grants. In the report of the European research ranking for 2010, University of Cyprus was the No 1 Cyprus research institute in the number of FP7 grants received. Currently UCY is implementing 98 programmes funded by European and international funding, including 7 research grants of ERC and another 231 programmes funded by the National Research Promotion Foundation. UCY runs also, as a proof of its dedication in European integration teaching, a Jean Monnet Centre of Excellence and three Jean Monnet Chairs –in European Political Integration, in European Economic Integration and in European Foreign and Security Policy. It has also an UNESCO Chair for Equality and Gender Empowerment. UCY is also member to many European and International Networks and Associations, namely: EUA, IAU, UNICA, ACU, Santander Group, AEUA, UNIMED, EAEC etc. In 2010 the first Nobel Prize winner, Prof. Pissarides Christoforos has also joined the academic community of UCY. The total research output of the UCY constitutes 62% of the country's total output. University of Cyprus Library is currently by far the biggest Library in Cyprus in terms of volumes, types of materials, computer facilities, in access to electronic sources of information, specialized personnel and know-how. Due to OPENAIRE and OPENAIREplus activities there has already been established a collaboration mechanism among researchers, institutions, funding organizations, EC OA National Reference Point, repository managers, librarians and the librarians association – a real human network that ensures that the idea, spirit, approach and practices compliant with Horizon 2020 Open Access (OA) mandates will continue to spread and be served. The University of Cyprus Library as a Cyprus NOAD constitutes major research infrastructure in the country. The participation of the Cyprus NOAD in relative future projects will ensure the continuation of establishment of the EC Open Access policies. It will reinforce and facilitate the ability of UCY Library NOAD to influence the rest of the research institutions and the policy makers, ministries and funders towards the establishment of a regional OA agenda.

Infrastructure:

- INTRA project is in progress by the Library of the University of Cyprus to aggregate and record all scientific publications by the academic staff of UCY.
- Berlin declaration has been signed by the University of Cyprus (UCY) and the Technological University of Cyprus.
- The Cyprus Academic Library Consortium (CALC) has recently signed a nationwide subscription contract with BMC (Biomed Central) for an open access model to the BMC journals.
- All three institutional repository initiatives are OpenAIRE compliant.

Role in OpenAIRE2020:

NOAD for Cyprus.

Related Projects:

- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)
- "ΕΝΔΟ" (INTRA) - initiative to identify, gather and massively import to an OA repository all the publications on behalf of the academic staff of UCY
- IL Greco project "Implementing Learning Game Resources based on Educational Content", in the frame of GRUTVIG European Programme (2006-2008)
- European Programme "ACCELERATE: ACCEss to the modern Library sERvices for the blind and pArtially sighTEd people" (2001)

Publications:

- Tsimpoglou, F., Koukounidou, V., & Prokopiou, L. (2012). Open Access to scientific results and data. European Union's efforts through OpenAIRE and OpenAIREplus FP7 projects: Cypriot participation. International Journal of Heritage in the Digital Era, 1(0), 113-118. doi: 10.1260/2047-4970.1.0.113
- Koukounidou, V.V., Zervas, M. (2012). Open Access in Cyprus. Presented at Athens conference of MedOANet 2012 "National Workshop on Open Access policies"
- Koukounidou, V.V. (2011) Ευρωπαϊκό ερευνητικό πρόγραμμα OpenAIRE: η συμβολή της Βιβλιοθήκης Πανεπιστημίου Κύπρου. Presented in Limassol (Cyprus) at the workshop "Open Access/24h Library"

- Koukounidou, V.V. (2012) OpenairePlus: Ευρωπαϊκό πρόγραμμα διασύνδεσης δημοσιεύσεων και ερευνητικών δεδομένων. Presented at the 4th annual conference of CALIS entitled "Utilization of new technologies and their application to Cyprus institutes"
- Koukounidou, V.V. (2012) OpenAIREplus: Ευρωπαϊκό πρόγραμμα διασύνδεσης δημοσιεύσεων και ερευνητικών δεδομένων. Presented in Limassol (Cyprus) at the workshop "Open mind, Open Access, Open Library" at the Cyprus Technological University of Cyprus

<u>Key Personnel:</u>

Mrs. Vasiliki (Sylvia) Koukounidou, [F], is the coordinator of the Digitization and Archives office of the University of Cyprus Library. She is also the content repository manager of the institutional repository of the University of Cyprus. Since 2004, Sylvia is participating in many projects of the UCY Library and from September 2011 she is participating in FP7 projects OpenAIRE and OpenAIREplus as a NOAD representative.

Mr. Panos Raptis, [M], works in the University of Cyprus Library - Library systems office - as system librarian and manager of various library softwares. Main responsibilities include the proper functioning of Library Management System, focused on data handling and migration of system's data with 3rd party softwares, including Institution's repository.

4.1.27   Vysoka Skola Banska – Technicka Univerzita Ostrava (VSB-TUO)

VSB-TUO was founded in 1849, and has since grown into a modern institution of higher learning, offering the highest levels of education in technical and economic branches of study, based on the interconnection of science, research, education, and the creative activity. Ostrava has long been a hub of major industry in central Europe, and study and research at VSB-TUO is formed by historically close ties with major international companies. VSB-TUO is one of the largest universities in Czech Republic with over 20,000 students studying in seven faculties.

VSB-TUO Central Library started to implement an OAI-compliant institutional DSpace based repository in 2005. For many reasons the repository is still far from the ideas of OA movement ideas, still providing 'Closed Access rather than Open Access', because a significant portion of the records in the repository containing full-texts are theses and dissertations which are not OA, but a number of OA publications represented by the university scholarly outputs is growing constantly.

Role in OpenAIRE2020:

NOAD for Czech Republic

Related Projects:

- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)

Publications:

- TKAČÍKOVÁ, Daniela. OpenAIRE a OpenAIREplus – od pilotního projektu v 7. RP k evropskému portálu otevřených výsledků výzkumu (nejen v Horizontu 2020). In: Inforum 2013: 19. ročník konference o profesionálních informačních zdrojích: 21.-22. května 2013, Praha [online]. Praha: Albertina icome Praha, 2013 [viewed 2014-03-28]. Available from: http://dspace.vsb.cz/handle/10084/96362
- TKAČÍKOVÁ, Daniela. Otevřený přístup k publikovaným výsledkům výzkumu a vývoje a evropský projekt OpenAIRE. Echo: Informace o evropském výzkumu, vývoji a inovacích. 2011, č. 6, s. 7-8. ISSN 1214-8229.
- TKAČÍKOVÁ, Daniela. Projekt OpenAIRE – výzva a příležitost i pro Českou republiku. In: Inforum 2010: 16. konference o profesionálních informačních zdrojích: 25.-27. 5. 2010 [online]. Praha: Albertina icome Praha, 2010 [viewed 2014-03-28]. Available from: http://dspace.vsb.cz/handle/10084/96361

Key Personnel:

Mrs. Daniela Tkačíková, [F], is the director of the VSB-TUO Central Library. Besides activities relating to managing the library, she is engaged in many specialized activities, e.g. teaching and information literacy. One of her most important professional interests is open access to research results. In recent years she has participated in activities relating to advocating and promoting open access and institutional repositories on the national level, in collaboration with academic and research librarians, particularly within the Association of Libraries of Czech Universities (ALCU). She is responsible for the ALCU Key Activity 1: Open access and changes in scholarly communication. As a member of CZ Open Access working group she participated on wording of the recently adopted R&D Council recommendation on open access to scientific publications resulting from publicly funded research. She participated in the OpenAIRE project as a Czech NOAD, and she is participating in the same role in the OpenAIREplus project.

4.1.28 Syddansk Universitet (SDU)

The Library serves the University of Southern Denmark, which is an institution that offers education at the highest level within Health Sciences, Science, Engineering, Social Sciences, and Humanities. The University was established in 1998 through a merger involving Odense University, the Southern Denmark School of Business and Engineering and South Jutland University Centre. In 2006, the university celebrated its 40th anniversary, as the former Odense University was founded in 1966. The University is devoted to strengthening relations with both public and private enterprise, so that the knowledge and competence available at the University can be put to use in an ever increasing number of fields. As the largest knowledge bank in this part of the country, the University feels an obligation to participate actively in ongoing social development. There are 26.000 students and 1.200 researchers/teaching staff at the university and ca. 160 Ph.D.'s hand in their dissertations each year.

The Library runs the institutional repository through Pure, so researchers can comply with funder policies regarding green OA. The history of Open Access in Denmark is rather short, but the Library has gathered some experience in the field though participation in a number of projects – many of them funded through Denmark's Electronic Research Library (DEFF). The Library supports Open Access publication through membership with major Open Access publishers like: BioMed Central, SpringerOpen, Royal Society of Chemistry and PLoS.

The University Library has been an active partner in the Danish Open Access Network since 2010.

Role in OpenAIRE2020:

NOAD for Denmark.

Publications:

- Danish Open Access Barometer, 2014, report in press (in Danish)
- A Map of Open Access in Denmark, 2014, report in press (in Danish)
- Offentlig adgang til Dansk Forskning (Public Access to Danish Research), 2009 (in Danish).

Key Personnel:

- **Mrs. Anne Thorst Melbye**, [F], Head of Campus Library and Open Access coordinator at the University Library.
- **Mr. Asger Væring Larsen**, [M], Executive Advisor.
- **Mr. Bertil Dorch**, [M], Head of Library and member of the Committee on National Data Management.
- The National Committee on Open Access and will provide an additional point of contact to relevant partners in Denmark.

4.1.29 Tartu Ulikool (UT)

The University of Tartu (UT), founded in 1632, is today the only classical university in Estonia. Research at UT focuses on subjects as diverse as medicine and philosophy, genetics and computer science. UT is Estonia's leading centre of research and training. As Estonia's national university, UT stresses the importance of international co-operation and partnerships with reputable research universities all over the world. UT has 61 partner universities in 22 countries. The robust research potential of the university is evidenced by the fact that it is the only Baltic university that has been invited to join the Coimbra Group, a prestigious club of renowned research universities.

UT includes nine faculties, five colleges and several regional development units, of which the latter two are situated in different parts of Estonia. According to information on the ISI Web of Science, the University of Tartu belongs to the top 1% of the world's most-cited universities and research institutions in the fields of Clinical Medicine, Chemistry, Environment/Ecology, Plant and Animal Science, Geosciences, Social Sciences (general), Biology and Biochemistry, Molecular Biology and Genetics.

University of Tartu Library (UTL) was founded in 1802. The objectives of the UTL are: accumulating, preserving and making accessible of information necessary for research and study purposes of the University of Tartu ; offering of public information services and creation, preservation and making accessible for research purposes of a complete collection of Estonian-language publications, materials published in Estonia, materials discussing Estonia or containing information about Estonia

The University of Tartu Library (UTL) is organizing Open Access Weeks since 2010 to raise the Estonian researchers', funders' and publishers' awareness of open access publishing. UTL is holding seminars that introduce the possibilities for open access (OA) publishing, offered at the University of Tartu (UT) (e.g. DSpace repository, Open Journal System, UT press and OAPEN); and international conferences, focusing on two large topics: open access to research results and open data. The aim of the seminars/ conferences is to raise the university members' awareness of the possibilities for publishing their research results by the open access principles and to discuss how the universities or the research funders should require publishing the publicly funded research results/data by the open access principles.

Infrastructure:

In October 2010 the University of Tartu Library opened the Open Access web gate at www.utlib.ee/openaccess. The website presents information about the OA principles and links to the largest OA repositories and journals. The repository links have been divided into seven categories, according to their subjects, to make it easier for the users to find the repository they need.

In 2013, the University of Tartu Library opened the Open Data web gate. The website presents information about the Open Data principles and the opportunities of preserving and making accessible research information. In 2014, UT will create the Estonian DataCite centre.

Role in OpenAIRE2020:

NOAD for Estonia

Related Projects:

- In 2004, the UT Library was the first in Estonia to start current electronic archiving of doctoral theses. The development of a complete collection of e-dissertations is guaranteed by a change in the university regulation concerning the defence of doctoral dissertations, obligating people to cooperate with the digital archive. Digitisation of older doctoral theses, defended throughout the university's 382-year history was also started in 2004.
- Today, it is required by the university that all bachelor's and master's theses should be electronically archived. Total archiving of students' research was started in 2012.
- In 2013, the University of Tartu Library launched a new project, inviting all alumni of the university to grant the library a permission to add their graduation theses to the university's digital archive DSpace.
- UT Library offers for both the university members and the members of other research institutions the Open Journal Systems platform for publishing.
- OpenAIRE and OpenAIREplus

Publications:

- UT Digital Archive in DSpace (since 2004) is an institutional repository for e-theses and e-publications, digitized theses and books, manuscripts and images etc.

- According to the Webometric analysis, the UT Digital Archive on DSpace has placed 103 among the institutional repositories in the world.

<u>Key Personnel:</u>

Ms Anneli Sepp, [F], is the Head of the Information Systems Department at the UT Library. Since 2009, she is the Estonian coordinator of the Open Access project (OpenAire, OpenAIREplus).

4.1.30   Helsingin Yliopisto (HY)

The University of Helsinki, founded in 1640, is an international, multidisciplinary academic community of 40,000 students and staff members. It operates on four campuses in Helsinki and at 17 other locations in Finland.

The University of Helsinki has regularly been ranked among Europe's 10 to 15 best universities on worldwide ranking lists of research universities. Some 470 doctorates are completed annually and nearly 10,000 scientific articles or monographs are published yearly by the university's researchers.

University of Helsinki was among the first universities in Finland to establish in 2005 the open repository, called Helda. *Helda* is an institutional repository service provided by the Helsinki University Library. The university has had since 2008, as the first university in Finland an OA policy – which mandates the self-archiving of research articles.

Helsinki University Library is the biggest multidisciplinary research library in Finland. The library operates on all of the university's four campuses with a staff about 220 people. Helsinki University Library has had since 2010 many activities in relation to research data management and support. There has been for example a research data pilot project and a training program for library personnel. The training program lasted one year and 15 people participated in it. In 2014, the library is organizing the RDM training course for PhD students as a part of the new doctoral programs.

Role in OpenAIRE2020:

NOAD fro Finland.

Related Projects:

- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)

Key Personnel:

Dr Kimmo Tuominen, [M], the University Librarian at the Helsinki University Library since 2013. Before that Dimmo Tuominen acted as a Chief Librarian at the Jyväskylä University Library.

Mrs Annikki Roos, [F], Library director at the Meilahti and Viikki Campus Libraries since 2010. She has been actively participating in the OA discussion in Finland; is a chair of the FinnOA WG. In 2013 she acted as a chair in a working group of the Finnish Research Data Initiative (TTA), set up by the Ministry of Education and Culture, where the key factors for the promotion of research information availability were clarified (see: http://www.tdata.fi/documents/47404/86137/The+intention+of+Open+Science+and+Research+initiative+in+Finland/d8558803-e050-45db-a6a5-90639fe62da9).

Mr Kimmo Koskinen, [M], Development manager at Helsinki University Library, digital services. His work includes support for Open Access to research publications from the university and participation in research data activities at the university and at national level. His previous responsibilities include participation in the BHL-Europe project focusing on digitization and developing a portal for biodiversity literature.

4.1.31 Consortium unifié des établissements niversitaires et de recherche pour l'accès aux publications numériques (COUPERIN)

Couperin consortium is a network that unites all french higher education and research members: universities, engineering schools, research institutions and other organizations.

- It currently includes 240 institutions
- It evaluates, negotiates and arranges the purchase of electronic library resources at the best price possible for its members.
- It promotes a national policy on the acquisition of scientific archives to ensure equal access to IST (Scientific and Technical Information) for the entire scientific community.
- It works on improving scientific communication through the development of open access initiatives.
- It encourages the establishment of systems for non-commercial dissemination of IST.
- It is chaired by Jean-Pierre Finance, former university rector, former president of the French rector's conference and former member of the EUA board.

Couperin has been working for several years on Open Access related issues. The keywords for describing Couperin's activity on OA would be: advocacy, dissemination and training.

These three actions are aimed towards: librarians; researchers; policymakers.

For 15 years now, Couperin has been looking for ways to build a proactive open access policy in France along with the other academic stakeholders. OpenAIRE 2020 project is one of the means to achieve the aim of 100% accessibility to the results of publicly-funded scientific research as soon as possible.

All French Higher Education and Research institutions have joined Couperin lately and it is therefore a key actor to promote OA issue. Couperin animates an open access working group which gathers 67 professionals split in 4 groups. One of them is specifically working on lobbying towards the policy makers. One of its goals is to make France adopt a law as it has been voted in Italy or Germany: a law to allow researchers to deposit above all the contracts signed with publishers. It also promotes the "university of Liège model" with an OA mandate for institutional repositories. Another group is working on datasets and repository specifications, a third one is working on rewriting the content of the website dedicated to OA.

Furthermore, Couperin's board members participate in working groups with the Ministery of Higher Education and Research and meet Michel Marian NPR for France, for example. The open access working group will help him in AO dissemination, advocacy and lobbying. We have also planned to meet Isabelle Attard, MP who has lately proposed several laws to improve electronic resources access. We think she could be able to promote a law on OA.

FOSTER program, in which Couperin is involved, with training sessions for young researchers, will help sustainability of the deposits.

Overview of what Couperin has been doing as OpenAIRE NOAD

Couperin from the beginning of the project has advocated for OpenAIRE and clause 39. It has organised a workshop to raise the awareness of researchers, librarians and repository managers in 2011. In 2012, a professional was hired to contact systematically FP7 projects managers and researchers and many repositories have become compliant. HAL, the most important one, became compliant quite quickly and assure a good presence of french research on the OpenAIRE portal. In 2013, Couperin organised a milestone meeting in which OpenAIRE infrastructure was promoted. Furthermore, the project has been presented in many other international (ICOLC, SELL) and french meetings (Agropolis, Open access week). Moreover, Couperin has written articles promoting open access generally speaking and openAIRE in particular.

This demonstrates Couperin's ability to successfully achieve its tasks on OpenAIRE2020.

<u>Role in OpenAIRE2020:</u>

NOAD for France. Through affiliated organizations participates in WP5, WP7, WP8 and WP9.

CNRS-CCSD/HAL will participate in WP8 and WP9 aligning HAL's repository platform with the OpenAIRE usage data analytics and publication broker services. CNRS-CCSD/HAL is the main repository in all French research organizations.

Ifremer will participate in WP8 and WP9 aligning their repository platform with the OpenAIRE usage data analytics and publication broker services. Ifremer runs a repository of publications and data for the French marine related sciences.

CLEO/OPENEDITION will participate in WP7 with respect to hosting a publishing blogging platform (Hypotheses.org) and carrying out experiments to modeling workflows, and in WP5 to bring in data about the costs of publication in Humanities and Social Sciences in OA journals.   OpenEdition is a public non-profit initiative, supported by French institutions of research and higher education.

<u>Related Projects:</u>

Couperin has participated and still participates in FP7 projects related with Open Access and repositories:

- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)
- FOSTER – Facilitate Open Science Training for European Research (2014-2016)

<u>Publications:</u>

Article in UKSG eNews Issue 298, 14 June 2013, A strong wind is blowing by André Dazy to promote open access in France (and OpenAIRE)

<u>Key Personnel:</u>

Mr. André Dazy, [M], coordinator of Couperin's www.couperin.org services and forecasting studies department, will oversee the project implementation, coordinate the different French stakeholders and co-animate the OA working group. His position of coordinator of the services and forecasting studies department at Couperin is a key position to animate the network of all French OA stakeholders.

Mrs. Monique Joly, [F], Director of Lyon INSA libraries http://www.insa-lyon.fr/en, head of Couperin's services and forecasting studies department will supervise the project on behalf of Couperin and will give her strategic view within the project.

4.1.32 Universitat Konstanz (UKON)

The University of Konstanz, which was founded in 1966 and is currently one of Germany's "Universities of Excellence", is one of the pioneers and unremitting proponents of Open Access in Germany. Founded in 1997, the Institutional Repository "KOPS" maintains more than 13,000 full-text documents. The University of Konstanz has a soft Open Access mandate, which means that all members of the university are asked to self-archive and submit all their publications to the institutional repository. The university library, which is part of the university's service network KIM (Communication, Information, Media Centre, a network that joins the services of the library, the computing center, and the university administration), participated and currently participates in several important Open Access related projects.

Since 2006, the Library of the University of Konstanz has been one of the core partners of the project "open-access.net", funded by the German Research Foundation (DFG) to establish a comprehensive information platform on Open Access. In 2008 the Library of the University of Konstanz became a member of the European Library Network NEREUS (Networked Economics Resources for European Scholars) and it is a member of the Confederation of Open Access Repositories (COAR). Projects that were coordinated by the University of Konstanz include the data repository project in Biology "Move VRE" and the project "Open Access subject repositories" (both 2010-2012). Furthermore, the university operates the platform "Open Journal Systems" (OJS), which currently hosts four journals, and offers guidance and support in the founding of Open Access journals. At the beginning of 2012, the university adopted an Open Access policy, declaring Open Access the guiding concept for its publication strategy. Since 2009, the university has been the National Open Access Desk for Germany in the OpenAIRE/OpenAIREplus project. The latest projects the university is part of are the research data management-project "bwFDM-Communities" (Forschungsdatenmanagement Baden-Wuerttemberg), a joint venture of all nine universities of the federal state of Baden-Wuerttemberg to survey how scientific communities deal with research data and to assess their need for research data management support, infrastructure and services, and "Sustainable OJS Infrastructure for the electronic publication of scientific journals" (Nachhaltige OJS-Infrastruktur zur elektronischen Publikation wissenschaftlicher Zeitschriften), an Open Access community building project to foster the usage of Open Journal Systems.

The work as the German NOAD for the past five years included gathering research output into the OpenAIRE information space, assisting and guiding projects and literature and data repositories in complying with the EC's Open Access Policies and the OpenAIRE Guidelines, promoting the EC's Open Data Pilot and the OpenAIRE Guidelines for Data Managers, and close communication and cooperation with relevant stakeholders such as research funders and policy makers. The expertise and experience gained through this work and the various other Open Access activities particularly qualify the University of Konstanz to continue working on the tasks of the new OpenAIRE 2020 project as the National Open Access Desk for Germany.

Role in OpenAIRE2020:

NOAD for Germany. Will be the liaison for DFG.

Related Projects:

- Information platform "open-access.net" (2006-2010, regular operation since 2010)
- OpenAIRE (Open Access Infrastructure for Research in Europe, 2009-2012)
- OpenAIREplus (2nd Generation of Open Access Infrastructure for Research in Europe, 2011-2014)
- bwFDM-Communities (Research data management project, 2014-2015)
- Sustainable OJS Infrastructure (Sustainability and community building project, 2014-2016)

Key Personnel:

Mrs. Petra Haetscher, [F], is Head of the Communication, Information, Media Centre (KIM), Director of the Library and Head of the coordination of Open Access policies of the University of Konstanz. In addition, she was Project Director of several projects funded by the German Research Foundation in the area of Open Access and repositories: "Information platform open-access.net" (2006-2010), "Open access subject repositories" (2010-2012), "Move VRE" (2010-2012). Furthermore, she is a member of the committee on "Scientific Library Services and Information Systems (LIS)" and chairwoman of the sub-committee "Electronic Publications" of the German Research Foundation (DFG). She is also a member of the Steering Committee of the consortium of leading European libraries in the area of economics (NEREUS).

Mrs. Anja Oberlaender, [F], is repository manager at the Library of the University of Konstanz and was project coordinator of the projects "Information platform open-access.net" (2006-2010) and "Open Access subject repositories" (2010-2012), funded by the German Research Foundation (DFG). She is also the project manager responsible for the German National Open Access Desk in the OpenAIRE project. Additionally, she has been a member of the Open Access

Working Group within the framework of Knowledge Exchange and a member of the Working Group 3 in COAR: "Repository and Repository Networks Support & Training".

4.1.33 Ethiniko Idryma Erevnon (EKT-NHRF)

The **National Documentation Centre (EKT)** is the national institution for documentation, information and support on science, research and technology issues. Founded in 1980, EKT is integrated with the National Hellenic Research Foundation (NHRF) and is supervised by the General Secretariat for Research and Technology of the Ministry of Education, Lifelong Learning and Religious Affairs. The NHRF is a multidisciplinary Research Centre established in 1958.

EKT's mission is to act as a backbone for the Greek national infrastructure for the development, organisation and provision of science and technology content. EKT services are offered to the country's entire scientific and business community, universities, research centres, enterprises and public and private sector bodies along three lines of work: (a) enabling access to high-quality scientific and cultural content, (b) providing metrics on research and innovation, (c) providing RDI and business support. Examples of services include the National Archive of Doctoral Dissertations, the national repository aggregator (openarchives.gr), Repository as a Service Services for Greek academic and cultural institutions, the Serials Union Catalog of Greek libraries, National Contact Point for FP7 in several subject areas and the co-ordination of the Greek branch of the Enterprise Europe Network.

EKT is a pioneer in supporting open access in Greece and abroad. It is the coordinator of two major EU-funded projects pertaining to the development of open access policies, MedOANet (www.medoanet.eu) and PASTEUR4OA (www.pasteur4oa.eu), as well as the Greek NOAD for OpenAIRE. Through these and other activities, such as the maintenance of the main portal on open access in Greece, openaccess.gr, organization of major international conferences, coordination of stakeholders in open access, EKT contributes to the development of open access policies aligned with the EC Recommendation on access to, dissemination of and preservation of scientific information, as well as Horizon 2020 and further supports policy development.

Further, EKT develops and operates a set of national scale e-infrastructures under the platform of the National Information System for Research and Technology (NISRT – www.epset.gr) comprising a variety of national-scale open access infrastructures including a repositories aggregator (openarchives.gr), a cultural repositories aggregation and automatic validation infrastructure, 12 repositories, 15 electronic journals, an e-publishing platform (http://epublishing.ekt.gr) and research information systems (CRIS). EKT participates actively in euroCRIS (co-editor in the CERIF standard, leader of the CERIF standard API development, developer and maintainer of the CERIF reference implementation), is represented in the euroCRIS Board and has coordinated and participated in many EU projects in the areas of e-infrastructures and policies for open access to publications and data.

Role in OpenAIRE2020:

NOAD for Greeece. Acts as the liaison for EuroCRIS and additionally participates in the CRIS guidelines update and OpenAIRE data model.

Related Projects:

- PASTEUR4OA-FP7-SIS (611742)
- MedOANet – FP7-SIS (288945)
- RECODE – FP7-SIS (321463)
- OpenAIRE – FP7- INFRASTRUCTURES (246686)
- OpenAIREplus – FP7- INFRASTRUCTURES (283595)

Publications:

- Houssos, N., Jörg, B., Dvorak, J.(editors). OpenAIRE Guidelines for CRIS Managers. https://guidelines.openaire.eu/wiki/OpenAIRE_Guidelines:_For_CRIS
- Manghi, P., Houssos, N., Mikulicic, M., & Jörg, B. (2012). The Data Model of the OpenAIRE Scientific Communication e-Infrastructure. In Metadata and Semantics Research (pp. 168-180). Springer Berlin Heidelberg.
- MedOANet Guidelines for implementing open access policies. For research performing and research funding organizations (http://www.medoanet.eu/sites/www.medoanet.eu/files/documents/MED2013_GUIDELine_dp_EN_ws.pdf)
- Victoria Tsoukala, & Evi Sachini. (2013). MedOANet: Facilitating Coordinated Open Access Policies and Strategies in Mediterranean Europe. In Eloy Rodrigues, Alma Swan, & Ana Alice Baptista (Eds.), Uma Decana de Acesso Aberto na UMinho e no Mundo. Braga: Universidade do Minho, Servicos de Documentacao. http://hdl.handle.net/10442/13731.
- Jeffery, K., Houssos, N., Jörg, B., & Asserson, A. (2014). Research information management: the CERIF approach. International Journal of Metadata, Semantics and Ontologies, 9(1), 5-14.

<u>Key Personnel:</u>

Dr. Evi Sachini, [F], is Director of the National Documentation Centre (EKT) in Athens Greece. She is the coordinator of the National Information System for Research and Technology, a large-scale project with the aim to create a nationwide knowledge infrastructure in Greece. Previous significant experience includes, among others, serving as the Research Director and, subsequently, as the Technical Director of a Technological Center. Through these positions she has acquired substantial experience in strategy development, and the planning and management of large-scale national and international projects. She holds a B.Eng. and a Ph.D. in Chemical Engineering from the National Technical University of Athens.

Dr. Eleni Malliou, [F], Dr Chemical Engineer, received a PhD in Chemical Sciences from the National Technical University of Athens in 1994. She is the Head of the RDI services & metrics department of the National Documentation Centre (EKT). The main areas of her expertise cover research management and evaluation, R&D and innovation metrics, project planning and coordination. For 12 years (1997-2009) she held the position of R&D Manager in the Greek Technological Centre for Textiles – CLOTEFI. She has coordinated more than 50 European and national R&D projects.

Dr. Nikos Houssos, [M], works for EKT/NHRF since 2006 as Head of the Software Applications Development Unit. He is the software architect of the Greek "National Information System on Research and Technology" (EPSET), which, among others, comprises repositories, research information systems and e-journal publishing platforms. He is a member of the euroCRIS Board. His experience also includes working in various EU FP5/FP6/FP7 ICT and e-infrastructures projects and serving as an adjunct lecturer at the Technical University of Crete (2004-2007). He holds a Ph.D. in Computer Science and has co-authored more than 30 publications in peer-reviewed international journals and conferences.

Dr. Victoria Tsoukala, [F], is the Head of the ePublishing and SSH Unit at the National Documentation Centre (EKT), in Athens, where she has worked since 2009.She earned her PhD and MA in Classical Archaeology at Bryn Mawr College, PA, USA and her BA in History and Archaeology at Aristotle University, Thessaloniki, Greece. She oversees major projects for EKT and works in scholarly communications, supporting Greek and European initiatives and projects that facilitate access to knowledge, such as open access, e-infrastructures for scientific information, e-publishing with an emphasis to promoting e-science in the SSH. She coordinates the open access policy support project PASTEUR4OA (www.pasteur4oa.eu) on behalf of EKT.

4.1.34 Debreceni Egyetem (DE)

The University of Debrecen (Debreceni Egyetem) is a public higher education institution, founded in 1912, which has become an intellectual center in Hungary. The University, with its student body of close to 30,000, 15 faculties, and academic staff of 1500 and non-academic staff of about 5000, does everything in its power to serve the role of one of the most prestigious universities of the country. The University Library of Debrecen was the first among higher education libraries to establish and manage an institutional repository (DEA). The repository plays a significant role in the promotion of self-archiving and open access publishing. The University Library coordinates the Hungarian Open Repositories association which is dedicated to promoting Hungarian research both nationally and internationally and to achieving effective dissemination of scientific outputs through the implementation of a national infrastructure of open access repositories. In OpenAIRE2020 the institution plans to strengthen our NOAD position in the region by initiating discourse on a national level on the significance of open science and continuing open access advocacy among Hungarian higher education institutions. It is also important to start communication with other NOADS in the Central-European region in order to increase administrative and scientific cooperations among institutions in this region.

Role in OpenAIRE2020:

NOAD for Hungary.

Related Projects:

- AAA – Study on Authentication, Authorization and Accounting (AAA) Platforms For Scientific data / information Resources in Europe (2011-2012)
- DRIVER II – Digital Repository Infrastructure Vision for European Research (2007-2009)
- Europeana Cloud – Establishing a cloud-based system for Europeana and its aggregators (2011-2015)
- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)

Publications:

- Karácsony, Gy. HUNOR: The Collaboration of Hungarian Open Access Repositories. Procedia - Social and Behavioral Sciences. - 73 (2013), p. 57-61.
- Karácsony, Gy. OpenAIRE: The digital business card of the European scholarly research. TMT 59 : 1 (2012), p. 3-12.
- Karácsony, Gy.: Mission possible: The role of university libraries in 21st century scholarly communication in Hungary. In: 12th EAHIL Conference / eds. Margarida Meira, Isabel Andrade, Paula Saraiva, EAHIL, Lisboa, 1-7, 2010.
- Karácsony, Gy.: DRIVER: European reserach infrastructure in the 21st century. TMT 57 (07), 291-297, 2010.

Key Personnel:

Mrs. Gyöngyi Karácsony, [F], is the Director of the University and National Library, manages the services of the Library, establishes goals and measures accomplishments against recognized standards, supervises the electronic services of the library. She prepares grant applications and seeks funding for operational and improvement programs, and directs the advocacy program on open access. She is the national contact person for OpenAIRE and DART-Europe programs, and she manages the HUNOR (HUNgarian Open Repositories) consortium.

Mrs. Márta Virágos, [F], is the Deputy Director of the National and University Library of the University of Debrecen. She has served on the board of several national and international library associations (EAHIL, LIBER, COAR) and she has been involved in organizing a number of national and international conferences.

Mrs. Edit Görögh, [F], has been working as a project manager at the University Library of Debrecen. She is actively involved in the promotion, communication and advocacy of various activities related to Open Access.

Mrs. Gabriella Harangi, [F], is an IT specialist, responsible for the development and maintenance of the institutional repository at the University of Debrecen. She has been responsible for the technical coordination of several projects on digitization and electronic archiving.

4.1.35   Landspitali University Hospital (LUH)

Landspitali University Hospital is the main hospital in Iceland.   The hospital personnel are about 4.000. The main role of the hospital is service to patients, teaching, training and scientific research. It is among the larger research institutions in Iceland. The Health Science Library falls under the Department of Science within the hospital. The Health Science Library established it´s research archive repository Hirslan, in 2006. Hirslan became OpenAIRE compliant in February 2014. All researchers at Landspitali are required to deposit their research article in Hirslan in open access. The vast majority of material published is in other languages than Icelandic and 17% of the 264 foreign language research articles published 2013 are Golden open access and 16% are Green open access. All of the 32 research articles published in Icelandic in 2013 are open access. The library made an agreement in 2006 with the main health sciences publishers in Iceland to deposit article in Hirslan in OA immediately after publication.

The Landspitali Health Science Library and the university libraries in Iceland have supported the development of repositories and promoted Open Access for a number of years. There is an informal group from these libraries and universities that has worked on OA for a few years on issues such as addressing OA policy issues, development of infrastructure/user services and information to researchers. This group has published articles about OA both in Icelandic journals and SciCom info. It has organized and hosted three conferences. This group has maintained the web www.openaccess.is hosted at The University Library of Iceland. Landspitali became a member of OpenAIREplus EU project in 2011.

Role in OpenAIRE2020:

NOAD for Iceland.

Related Projects:

- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)

Publications:

The published articles that do relate to open access are both in Icelandic and English and the English articles are:

- Thorsteinsdottir, Solveig: Scholarly publishing at Landspitalinn the National University Hospital of Iceland. ScieCom Info 2011; 7(1)
- Thorsteinsdóttir, Sólveig: Two Icelandic Open Repositories. ScieCom Info 2008; 4 (4)
- Thorsteinsdottir, Solveig: Open Access in Iceland, State-of-the-art report. ScieCom Info 2008; 4 (1)
- Thorsteinsdottir, Solveig: Icelandic funder mandate and revised law for publicly supported research in Iceland. ScieCom Info 2013; *9 (1)*
- Thorsteinsdottir Solveig : Does national access to e-publications make a difference : the Icelandic experience. Journal of the European Association for Health Information and Libraries 2005; 1 (4): 27-32

Key Personnel:

Mrs. Solveig Thorsteinsdottir, [F], is the project manager of Open Access and Hirslan the repository for Landspitali Health Science Library at Landspitali - University Hospital and the representative of Iceland for the OpenAIREplus from 2011. She has been the director of different libraries in Iceland since 1980 until 2012. She was the director of the Health Science Library of Landspitali for 24 years, director of the University Library of Reykjavik University for 3 years and the director of the Health Science Library of Reykjalundur Rehabilitation Center for 6 years. She has also been a lecturer at the University of Iceland at the Department of Library of Science from 1981 – 2013. She graduated with Masters in library science 1980 from University of Michigan USA and 1979 she graduated with BS degree from Eastern Michigan University Michigan USA. She has published a number of articles related to libraries and information. She has been involved in open access since 2005 and has attended meetings, written articles as well as given presentation at meetings about open access. She has also hosted a number of meetings in Iceland about open access. She is on the editorial board for the journal SciCominfo which is a Nordic-Baltic forum for scientific communication and open access. She has promoted open access in Iceland both for researchers and at the ministry. She was one of the founders of Landspitali open access repository Hirslan.

4.1.36 *The Provost, Fellows, Foundation Scholars, & the other members of Board of the College of the Holy & Undivided Trinity of Queen Elizabeth near Dublin (TCD)*

Founded in 1592, Trinity College Dublin (TCD) is the oldest university in Ireland and one of the older universities of Western Europe. It is recognised internationally as Ireland's premier university and is ranked in the top 100 universities in the world both overall and in a wide number of disciplines. Trinity's Library is one of the greatest research libraries in the world and holds more than 6 million books, journals, manuscripts and maps.

Trinity College Dublin has played a leading role in the advocacy of Open Access since 2005 when it established its institutional repository as a key component of its integrated research information systems. It was the first university in Ireland to adopt an Open Access mandate.

Trinity College Dublin was a partner, and played a leading role, in the Irish Higher Education Authority-funded Open Access to Research project 2008-2010 which resulted in the development of a network of repositories across all Irish universities and Dublin Institute of Technology and the establishment of Rian (http://rian.ie), Ireland's Open Access Research Portal.

Trinity College Dublin is about to launch eDeposit Ireland, an Open Access repository for any Irish publisher or researcher who does not have a repository in which to deposit their content. The repository will be available to all who which to use it and will be supported by Trinity College Library's Collection Management Department in liaison with the Library's Open Access team. Material deposited in eDeposit Ireland will be OpenAIRE-compliant and may be harvested by OpenAIRE via TARA (Trinity's Access to Research Archive).

<u>Infrastructure:</u>
<u>Role in OpenAIRE2020:</u>
NOAD for Ireland.
<u>Related Projects:</u>

- DART-Europe and through its partnership in DRIVER2
- OpenAIRE
- OpenAIREplus

<u>Publications:</u>

- Niamh Brennan, Open Access: The European Context, [Keynote] in 'Pride and Prejudice: the Challenges with Open Access and Open Source', Lir Annual Seminar 2014, Dublin, March 21st, 2014 http://media.heanet.ie/page/98aec11b5c8a4ad991da28a39e31738d
- Najla Rettberg & Niamh Brennan, 'OpenAIRE – an Open Science Infrastructure for Europe' conference paper presented at 'Open Access at IMCW2013' - 4th International Symposium on Information Management in a Changing World, September 4-6, 2013, Limerick, Ireland.
- Niamh Brennan, On grasping the lifeline - and avoiding the noose: Open Access in Social Sciences and Humanities, Workshop on Open Access infrastructures in the Social Sciences and Humanities, Covent Garden, Brussels, 6-7 February, 2013, 2013, ERCEA/A1 in collaboration with the ERC Scientific Council working group on Open Access
- Niamh Brennan and Catherine Bruen, Transforming cultures: Open Access and the research-teaching nexus, eInfraNet 'Open' Workshop , Noordwijk aan Zee, Netherlands, 27-28 October 2011, 2011
- The role of information and communications technology in research capacity building in, editor(s)Michael G. Healy and Mary Goretti Nakabugo , Research capacity building for development: resources for higher education institutions, Belfast, The Irish-African Partnership for Research Capacity Building, 2010, pp58 - 72, [Jane Grimson, Niamh Brennan, Catherine Bruen, Daniel Lete Murugarren, Margaret Ngwira, Vinny Wade and Kondwani Wella]

<u>Key Personnel:</u>

Mrs. Niamh Brennan, [F], is Programme Manager for Research Informatics in Trinity College Library Dublin where she works on the development of Trinity's Research Support System, its integrated institutional repository, TARA (Trinity's Access to Research Archive) and a number of scholarly communication initiatives. She was joint technical lead on the development of RIAN, Ireland's Open Access Research Portal. Niamh is a member of several national and international groups working on open access to research outputs and enabling their improved reporting, retrieval and evaluation of impact. These include Ireland's National Steering Group on Open Access Policy, DART-Europe (Digital Access to Research Theses Europe), OpenAIRE and OpenAIRE Plus (EC FP7 eInfrastructure). She ia a co-author of Ireland's

National Principles on Open Access Statement and is a founder member of Repository Network Ireland, a support group for repository managers. She is an elected board member of SPARC Europe.

Mrs. Ashling Hayes, [F], is the Repository Content Manager with TARA, Trinity's Access to Research Archive. In 2010, Ashling assisted in the design, setup and promotion of OAR, the Institutional Repository for Ireland's Marine Institute. The Marine Institute was the first Irish Governmental Agency to establish an Open Access Repository. At the University of Limerick she took responsibility for the advocacy of the University's Institutional Repository (ULIR). During this time she was a key member of a team of librarians who designed and implemented a Postgraduate Research Skills training course which included a strand on Open Access publishing and Archiving. As the Content Manager for TARA (Trinity's Access to Research Archive), Ashling works as an advocate for Open Access in Trinity College Dublin as well as participating in Open Access advocacy events in Ireland, particularly through the recently-established Repository Network Ireland.

4.1.37 Consorzio Interuniversitario Cineca (CINECA)

CINECA is an interuniversity Computing Consortium consisting of 72 members; from its inception CINECA's main institutional mission has been to support research conducted by the Italian scientific community through supercomputing applications and facilities. In 2013 CINECA due to consolidation, CINECA has taken over the activities carried out by CASPUR and CILEA since 2004 to support open access. These activities include: the implementation of OA institutional repositories, the management of OA peer reviewed journals, the planning, the implementation and technical coordination of PLEIADI, the current portal to access full text Italian electronic scholarly literature archived in OA institutional and thematic repositories and the development of a CRIS which integrates DSpace as OA repository in the research management solution. CINECA acted as Italian NOAD in OpenAIRE and OPENAIREplus these activities will be continued to assure full compliance with EC Horizon 2020 regulations. CINECA, thanks to its HPC and data capacity, provides services to the Italian researchers for storage and preservation of scientific data and is a partner of EUDAT. In this respect it is in the right position to support projects coordinators in all the aspects related to the management and preservation of OA research data.

<u>Role in OpenAIRE2020:</u>

NOAD for Italy.

<u>Related Projects:</u>

- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- VOA3R – Virtual Open Access Agriculture and Aquaculture Repository (2010-2013)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)
- MEDOANET – Mediterranean Open Access Network (2011-2013)

<u>Publications:</u>

- Fava I., Fazio R., Gargiulo P. (2013). MedOAnet Open Access Tracker. Poster presented at CERN Workshop on Innovation in Scholarly Communication (OAI8), Geneva (19-21 2013).
- Fava I., Gargiulo P. (2011) L'Europa della conoscenza: il ruolo dell'Open Access e il progetto OpenAIRE, CASPUR Annual Report 2011.
- Cassella M., Gargiulo P. (2010). Open access in Italy . In Anglada, L., Abadal, E. (Ed.), Open access in Southern European countries. Madrid: FECYT.

<u>Key Personnel:</u>

Mrs. Paola Gargiulo, [F], is responsible for Electronic Resources and OA projects.   She is member of the Italian Rectors Council OA Working Group, and recently has been appointed as OA expert to support the National Point of Reference to implement the EU Recommendations on access and preservation of scientific Information. At European level, she was member of the EUA (European University Association) Working Group on Open Access, representing the Italian Rectors Council, was on the Board of SPARC Europe and on the Technical Committee of SCOAP3, she coordinates the participation of CINECA in various FP7 funded projects related with Open Access and repositories.

Mrs. Manuela Sofia, [F], works at CINECA as a specialist of electronic resources with a focus on preservation. Graduated in Preservation of Cultural Heritage at University of Parma, since 2004 she has collaborated with various academic and research centres to raise awareness on digital preservation issues and to promote the adoption of preservation plans. Recently, she joined the Italian NOAD to support the implementation of Horizon2020 OA requirements in Italian universities and research centres.

Mrs. Silvia Corbetta, [F], has a degree in Library Science, majoring in electronic resources management, information literacy and users behaviours. She gained some experience in the publishing world before joining CINECA in 2002. She runs the help-desk   service to assist end-users on issues related to access and digital rights. She is quite knowledgeble on issues related to copyright and open access policies and recently joined the Italian NOAD to assist Eu funded project coordinators to comply to FP7 and Horizon2020 OA requirements and to give support on open research data management plans.

4.1.38   Latvijas Univesitate (LU)

The University of Latvia with its 15,000 students, 13 faculties and more than 20 research institutes is one of the largest comprehensive and leading research universities in the Baltic States. The University offers more than 130 state-accredited academic and professional study programmes. At University of Latvia, research is conducted in over 50 research fields which represent four main areas of inquiry: the humanities, sciences, social sciences, and education sciences. The University of Latvia pays great attention to the development of international collaboration.

The Library of the University of Latvia is the largest accredited higher education library of State significance, the main information resource centre for studies and research at the University of Latvia.

Infrastructure:

There are 5 work stations for digitization (3 for making masterfiles and access files and 2 for providing access of digital content (uploading files and compiling metadata) in the Library of the University of Latvia, Collection Employment and Development Department. Furthermore, the University of Latvia provides infrastructure for data storage, archiving of digitised materials, digital content access and management.

Role in OpenAIRE2020:

NOAD for Latvia.

Related Projects:

University of Latvia Library was the first institution who promoted the Open Access idea in national level, Library gained recognition and trust in Latvian scientific environment. The Library has promoted itself and is working as a contact point for spreading the information about Open Access among the institutions of higher education and research in Latvia, encouraging other academic institutions to participate in Open Access activities.

The main tasks and achievements are:

- Spreading information about OpenAIRE and Open Access initiatives to academic and scientific institutions in Latvia, FP7 project coordinators from Latvia and representatives from Latvia in EC
- Presenting OA policy to the Council of Science of the University of Latvia, the representatives from the Ministry of Education and Science, the Latvian Academy of Sciences, the Latvian Council of Science, Association of the academic libraries in Latvia etc.
- Contacting SC39 related FP7projects, answering questions ; contacts with FP7 National Contact Point
- Distributing printed and electronical information as well as publications about Open Access, OpenAIRE and OpenAIREplus, Open Access resources and Open Access copyright issues
- Organizing promotional campaign about Open Access in the academic environment in Latvia – workshops, discussions, presentations in workshops, poster sessions, dissemination of promotional materials

Publications:

- Gudakovska, I, Ranka, S., Rampane, I. "Open Access initiative in the University of Latvia and Republic of Latvia". Bibliotēka kā universitātes informācijas un mācību telpa = A library as university information and education space [elektroniskais resurss] Online issue. - Rīga : LU Bibliotēka, 2014. – 211.
- Ranka, S. Brīvpieejas informācijas (Open Access) resursu nozīme zinātnes attīstībā [elektronisks resurss] = The Role of Open Access Information Resources in the Scientific Development/Sandra Ranka//Informācija un Sabiedrība [elektronisks resurss] : Informācijas un bibliotēku studiju nodaļas raksti = Information and Society: Proceedings of the Department of Information and Library Studies / Latvijas Universitāte. Sociālo Zinātņu fakultāte. Informācijas un bibliotēku studiju nodaļa. - NR.3 (2013), 160.-175.

Key Personnel:

Dr.paed. Iveta Gudakovska, [F], asisstant professor, Director of the Library of the University of Latvia from year 2004. She is taught library, archives and museums management course, the author of the scientific and methodological publications. She has prepared the innovative solutions for the development of the university library, developed and implemented several projects. As OpenAIRE and OpenAIREplus projects coordinator I.Gudakovska was appointed as the National point of Reference on Access to and Preservation of Scientific Information in Latvia.

4.1.39 Kauno Technologijos Universitetas (KTU)

Kaunas University of Technology – the largest technical university in Lithuania, famous for its linkages with business, leadership in scientific research, flexible interdisciplinary study programmes. In the project, Kaunas University of Technology (KTU) is represented by two departments: the Library and the Faculty of Social Sciences, Arts and Humanities. The Library of Kaunas University of Technology is one of the largest academic libraries in Lithuania. The Library is the central unit providing information services and access to knowledge and information resources, actively participating in the research evaluation, management and dissemination of research output using database "KTU Science publications" and repository. The background for development of the national repository – Lithuanian Academic e-Library (eLABa) was made by implementing the project of Lithuanian Academic Libraries Network development. The KTU Library Information Systems Unit was a key institution developing national repository - Lithuanian Academic Electronic Library eLABa. The Lithuanian Academic Electronic Library (eLABa) is based on FEDORA, stores about ~ 37 000 objects in a repository, mainly ETD's (28417 items) and science publications. Recently eLABa is maintained by the Consortium of the Lithuanian Academic Libraries for the Maintenance and Development of an Information Infrastructure for Scientific and Studies. The Faculty of Social Sciences, Arts and Humanities at Kaunas University of Technology creates a dynamic and solid platform for the development of contemporary knowledge and innovation society in Lithuania, with the focus on research and study excellence in different areas. The Faculty of Social Sciences, Arts and Humanities represented by Policy and Public Administration Institute in partnership with Vilnius University, Institute for Social Research, the Republic of Lithuania Ministry of Education and Science established Social Sciences data archive LiDA in 2006. It is a pilot Social Sciences research data archive in Lithuania.

KTU participate in creating repositories:

National repository eLABa (Lithuanian Academic Electronic Library) is maintained by Lithuanian Academic Libraries Consortium for the Maintenance and Development of an Information Infrastructure for Science and Studies.

LiDA is a social science data service allowing searching, browsing, analysing and downloading social science survey data. LiDA catalogues contain social survey data, historical statistics and data about Lithuanian political system. All metadata are bilingually documented in English and Lithuanian. LiDA is a national member of ICPSR and conducts European Social Survey and International Social Survey Programme in Lithuania. Data archiving is based on the NESSTAR system and FEDORA repository (http://www.lidata.eu/en).

Infrastructure:

Role in OpenAIRE2020:

NOAD for Lithuania.

Related Projects:

- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)
- EIFL granted OA project "Promoting Open Access in Lithuania" (2011)
- EIFL granted OA project "Open Access from the Perspective of Young Researchers" (2012),
- The expert work in creating eLABa and Lituanistika repositories.

Publications:

- Tautkevičienė, Gintarė; Petrikaitė, Vilma; Eidukevičiūtė, Marija. Open access from the perspectives of young researchers. Sciecominfo: Nordic-Baltic Forum for Scientific Communication. 2013, 9(1), p. [1-3].
- Tautkevičienė, Gintarė; Duobinienė, Genė; Banionytė, Emilija; Vaškevičienė, Aušra. Demand for and practice of developing information competencies among researchers. Libraries for an open environment: strategies, technologies and partnerships [elektroninis išteklius] : IATUL 32nd Conference, Warsaw, 29th May - 2nd June 2011 / IATUL, Warsaw University of Technology. [Warsaw] : Warsaw University of Technology, 2011. p. [1-9].
- Banionytė, Emilija [Banionyte, Emilija]; Vaškevičienė, Aušra [Vaskeviciene, Ausra]; Tautkevičienė, Gintarė [Tautkeviciene, Gintare]. Interviews with Lithuanian politicians and famous researchers about Open Access. ScieCom info : Nordic-Baltic Forum for Scientific Communication. 2011, 7(3), p. [1-6].
- Tautkevičienė, Gintarė; Kučiukas, Vilius; Štreimikis, Antanas; Bloveščiūnienė, Lina; Stabingis, Linas. Integration of the Lithuanian academic e-library (eLABa) into the integrational open access infrastructure. Sciecominfo: Nordic-Baltic Forum for Scientific Communication. 2010, 6(3), p. [1-7].
- Tautkevičienė, Gintarė; Kuchma, Iryna; Cesevičiūtė, Ieva. The role of open access in the scholarly communication process. Changes in Social and Business Environment: proceedings of the 3rd international conference, November

4-5, 2009, Kaunas University of Technology Panevėžys Institute, Lithuania: selected papers. Kaunas University of Technology Panevėžys Institute, Bank of Finland, Koaceli University, Panevėžys Science and Technology Park [et al.]. Kaunas: Technologija. ISSN 1822-7090. 2009, p. 438-444.

<u>Key Personnel:</u>

Dr. Gintare Tautkeviciene, [F], is Head of Information Services Department at the Library of Kaunas University of Technology, in parallel is working as an Associate Professor at the Department of Educational Studies of the Faculty of Social Sciences, Arts and Humanities. She manages information and electronic services of the library, the university publication database, end-user training, maintains library website. She is a member and expert of the national repository eLABa management group and the Chair of General Meeting of the Consortium of the Lithuanian Academic Libraries for the Maintenance and Development of an Information Infrastructure for Scientific and Studies. She has conducted several repository development studies, as well as the eLABa usability study, wrote research reports, introduced eLABa at national and international events. She carried out a series of surveys and research studies, which were aimed at investigating the information needs of users and users' information competence. She has served as a Chair of Advisory Board of EIFL, is EIFL Open access coordinator for Lithuania. She also organizes the events and dissemination of promotional materials for Open Access, manages OA projects. She was Chair of the Working Group on Open Access to scientific information and research under the Lithuanian National Commission for UNESCO in 2013.

Mr. Antanas Streimikis, [M], is Head of Library Information Systems Unit. He is responsible for the implementation and maintenance of library information system ALEPH in Lithuanian universities and colleges. He is involved in the development of Lithuanian Electronic Thesis and Dissertations database, the national repository Lithuanian Academic Electronic Library eLABa, fulltext database Lituanistika, data repository LiDA.

4.1.40 Universite du Luxembourg (ULUX)

Founded in 2003, the University of Luxembourg is the first and only university of the Grand Duchy of Luxembourg. Multilingual, international and research-oriented, it is also a modern institution with a personal atmosphere.

The University of Luxembourg consists of 670 professional experts who support the roughly 213 professors, assistant professors and lecturers in their teaching. With respect to education, the University offers 11 bachelor degrees, 29 master degrees as well as doctoral studies based on the Bologna Accords, spread over three faculties and two interdisciplinary centres.

The University of Luxembourg Library (BUL) places at the disposal of the university community documentary resources that are integral to teaching and research, in particular a collection of more than 220,000 volumes, and nearly 900 subscriptions to scientific and scholarly periodicals.

The BUL contains collections that cover different areas of knowledge. It pays particular attention to supporting an inter-disciplinary approach and multilingualism in building up the collections. These collections are further enhanced by a vast offering of electronic documentation, the findit.lu portal, as well as ORBilu, the University's Open Repository and Bibliography.

ORBilu was launched in a drive to not only open up access to research that is being done at the University of Luxembourg but also to respond to the needs of its users, providing a means by which to showcase their expertise. At the same time, the University of Luxembourg's Executive Team announced the establishment of a deposit mandate: bibliographic details of all scientific publication must be entered into ORBilu and, as well, all peer-reviewed journal articles and papers from conference proceedings published since 1 Jan 2009 must include a full-text document. In January 2014, the mandate was extended to include the bibliographic details of all PhD theses. Since its inception in April 2013, the University's authors have archived over 12 500 publications.

The University of Luxembourg, as the first actor to provide its authors with the means by which to make theirs scientific production available on Open Access (OA), is a key player in the research performed in the country and therefore, is uniquely placed to act as the National Open Access Desk for Luxembourg in disseminating information with respect to Open Access and Open Data as well as educating the research population to the advantages of, and with H2020, the requirements related to, OA. Through its established ties with the principal national research funder, the Fonds national de la recherche, and LuxInnovation, the National Agency for Innovation and Research, and thanks to its involvement in OpenAIREplus, the BUL will be able to ensure that the OA message is passed to all of Luxembourg's H2020 participants.

Role in OpenAIRE2020:
NOAD for Luxemburg.

Related Projects:

- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)

Key Personnel:

Mrs. Beth Park, [F], has been the coordinator of the ORBilu project since December 2010 when she joined the University of Luxembourg. She holds a MSc in Library Studies and a Bachelor of Mathematics. Prior work experience includes the management of Luxembourg's electronic documentation portal as well as over 20 year in the private computing industry. See attached curriculum vitae.

4.1.41   University of Malta (UOM)

The University of Malta (UoM) is the highest teaching institution in Malta and was founded in 1769. The UoM is a publicly funded institution and its supreme governing bodies are Council and Senate. It is situated at Msida and the foundation stone of the new University building at Tal-Qroqq, was laid in September 1964. The current set up of the UoM was established by the 1988 Education Act of the Laws of Malta.

The UoM caters for 11,000 students which include over 600 international students from 80 different countries and comprises over 1000 academics, and approximately 800 technical and administrative staff. The UoM is made up of 14 Faculties and a number of interdisciplinary Institutes and Centres. The UoM strives to create programmes of studies which are relevant and timely in response to the needs of the country.

Researchers at the UoM conduct research in various fields, and as the sole University on the island, the UoM has particular responsibility to cater for study areas on a national dimension. In September 2009, the UoM has set up a Corporate Research and Knowledge Transfer Directorate so as to assist the University to transform itself into a contemporary third generation University built on three significant pillars, being teaching, corporate research, and direct and active participation in sustainable socio-economic development.

The UoM Library is currently working on the setting of an Institutional Repository (IR) for the UoM. This IR will serve as a vital tool for scholarly communication, preservation of the University's intellectual output and the promotion of Open Access to scientific publications and research data. The UoM-IR team has selected DSpace as an OpenAIRE compliant and widely used open source software. The team is in the process of drafting a number of policies and is working on the installation of the out-of-the-box software.   Subsequently, the software will be customised to cater for the University's requirements and pilot tested. The UoM Library is planning to officially launch this first IR in Malta by the end of summer 2014.

During the last years, the UoM has been participating in several FP7 projects in connection with Scientific Research. Additionally, it has several representatives on various ERA-related groups. In OpenAIRE2020, the UoM will participate in WP2 – Outreach and Dissemination and WP4 - Support and Training.

Role in OpenAIRE2020:
NOAD for Malta.
Related Projects:
- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)

Key Personnel:
Mr. Kevin J. Ellul, [M], is the Director, Library Services at the University of Malta. In 2004, he graduated with a Masters degree in Library and Information Management from Loughborough University, UK. He contributes actively towards the scholarly information strategy of the University through a proactive role in the digital learning and study enironment, in close affinity with patron needs, emergent publishing ventures, and the University's teaching and reseach programmes. He is a member of the Chartered Institute of Library and Information Professionals (CILIP) and is particularly interesed in information literacy, human information behaviour and the use of electronic information services in academic environments. Furthermore, he sits on the UoM Senate and is the National Point of Reference on Access to and Preservation of Scientific Information.

Mrs. Josianne Camilleri Vella, [F], has been forming part of the University of Malta Library team since 2001. She forms part of the Library's Management Team and occupies the post of Library Manager - Resources. In 2012, she attained an MSc degree in Management of Library and Information Services from Aberystwyth University, Wales. She is currently chairing a Steering Committee for the setting up of an IR for the University of Malta.

4.1.42   Sarminfo SRL (Sarminfo)

Sarminfo SRL is the legal entity standing behind Kosson Community's activities with regards to establishing partnerships and collaboration across Europe and on national level.

Kosson Community is the force behing many activities promoting the use of open technologies, open formats seeking to establish a coherent e-infrastucture for the output of memory institutions and research institutions from Romania. It represents the community level needed to develop a space for value exchange with regards to practices in the GLAM (Galleries, Libraries, Archives and Museums) fields.

The organisation provides the necesarry support for establishing a National Desk for Open Access as it was required in the OpenAIRE and OpenAIREplus FP7 projects.

Relevance to the project are the existing electronic communication services deployed:

• Kosson Community's main point: www.kosson.ro
• Romanian Open Access community site: www.acces-deschis.ro
• Romanian Open Access Understanding - the kickstarter of the Open Access efforts in Romania: startad.kosson.ro

Romanian Open Access community site is in fact a platform yet to be fully deployed in the future to become also the nucleus for research aggregation resources. Also, a part of the activities are aimed to develop the services needed to the Coalition of Open Educational Resources started in Romania by the end of autumn of 2013. This platform has the potential to develop as the clearing house for the future policies adopted in Romania with regards to Open Access.

Role in OpenAIRE2020:

NOAD for Romania

Related Projects:

• Open Access Infrastructure Research for Europe (2009-2012) and
• OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)

Key Personnel:

Mr. Nicolaie Constantinescu, [M], is one of the promoters of Open Access in Romania since 2005. Being an MLIS gave him insight and understanding of the networks and standards used to build the components of the e-infrastructures used to exploit raw data and discrete pieces of information. He is ocupying the position of Manager for Communication and Information Technology in Sarminfo SRL. His actions in the field of avocacy are coupled with a strong knowledge of the digital ecosystems able to aggregate, manage and diseminate research output and digital resources.

4.1.43 Univerzitet u Beogradu (UB)

The University of Belgrade is the biggest state university. During the two centuries of its existence the University of Belgrade has served its people, and its former students and teachers have greatly contributed to the development of cultural, scientific, educational, political and economic life in Serbia. The University of Belgrade is prepared to maintain and enhance its position as the leading institution of higher education in the region by adapting to the challenges of modern times on one hand, and preserving what's worth in its tradition on the other.

Belgrade University Computer Centre (RCUB) began its work in 1992, and serve as a computer centre whose primary function is to provide computer and information-communication services to faculties and other institutions members of the University of Belgrade. Besides that, RCUB represents a central communication node of the Academic network of Serbia (AMRES).Beside providing the Internet connection and other infrastructural work, RCUB is also oriented toward the development and implementation of different services for institutions and individual users. RCUB is especially dedicated to cultivating the research work, which is best reflected in the fact that RCUB took part in numerous international FP and TEMPUS projects.

Rector of University of Belgrade signed Berlin Declaration on Open Access in November of 2011. Three years ago University of Belgrade adopted Open Access Mandate for all Thesis. Additionally, the University formed a group of dedicated professors who are responsible for Horizon 2020 projects. The group recognized that OA is mandatory for Horizon 2020, and must be implemented. Some actions are already in progress, since the RCUB is already working on EUROS, the successor of "Nasi u FP" repository.

Role in OpenAIRE2020:

NOAD for Serbia

Related Projects:

- FP7 GN3plus - "Multi-Gigabit European Research and Education Network and Associated Services", 1.4.2013.-31.3.2015., www.geant.net
- FP7 GN3 - "Multi-Gigabit European Research and Education Network and Associated Services", 1.4.2009.-31.3.2013., www.geant.net tima
- FP7 SEERA-EI – "SouthEast European Research Area - e-Infrastructure", 1.4.2009.-31.3.2012., www.seera-ei.eu
- Digital Object Identifier (DOI) - repository that contains articles from the leading Serbian scientific journals. All articles are published under Open Access. The subportal DOI Serbia PhD is national repository of e-thesis deposited in the University repositories across the Serbia. www.doiserbia.nb.rs
- Nasi u FP – repository of articles (peer-reviewed and other important forms of publications (pre-prints or conference publications)) published by Serbian researchers within Seventh Research Framework Programme (FP7) http://eprints.kobson.nb.rs/

Publications:

- Biljana Kosanović, OA datasets: The next thing we need to know, Open Access Week 2013, University Library Svetozar Markovic, Belgrade, October, 25th . 10.2013 (presentation in Serbian) http://www.kobson.nb.rs/upload/documents/oNamaPredavanja/PR2013OADataSetovi.pdf
- Slavko Gajin, Petar Bojović: "Monitoring, analyzing and cleaning DNS configuration errors across European NRENs", TERENA Networking Conference 2013, Maastricht, Netherlands, 2013.
- Biljana Kosanović i Šipka Pero: Output in WoS vs. representation in JCR of SEE nations: Does mother Thomson cherish all her children equally, U: P. Šipka (Ur.), Journal Publishing in Developing, Transition and Emerging Countries: Proceedings of the 5th Belgrade International Open Access Conference 2012, Beograd, Srbija, Maj 18-19, 2012, pp. 125-137, Beograd: Centar za evaluaciju u obrazovanju i nauci dx.doi.org/10.5937/BIOAC-111 (article in English)
- Biljana Kosanović: DOISerbia: Librarians Step Forward to Researchers and Publishers, Open Access to Knowledge in Libraries, Proceedings of the International Scientific Conference, Belgrade, October 26th, 2012, pp. 61-69 (article in Serbian, abstract in English) http://www.kobson.nb.rs/upload/documents/oNamaPredavanja/PR2012DOISerbiaIskorakBibliotekara.pdf
- Slavko Gajin, Zoran Jovanovic, "An Accurate Performance Model for Network-on-Chip and Multicomputer Interconnection Networks", Journal of Parallel and Distributed Computing, October 2012, Volume 72, Issue 10, p. 1280–1294

<u>Key Personnel:</u>

Mrs. Biljana Kosanovic, [F], served as a national Coordinator of Serbian Library Consortium for Coordinated Acquisition (KoBSON) (www.kobson.nb.rs) for a twelve years, and as country coordinator in EIFL (Electronic Information for Libraries) Project (www.eifl.net). Main focus on her current activity Is managing activities on scientific databases acquisition and dissemination, organizing monitoring of scientific information utilization in academic society and promoting open access to the information within academic community. She started and established a few national projects about disseminating scientific results published by Serbian authors, and all of them are still running. Mrs Kosanovic has a Master degree in Informatics from the University of Belgrade. She has published 30 papers on use of scientific information, consortia and open access.

Mr. Slavko Gajin, [M], received dipl. Eng., MS and PhD degrees from University of Belgrade, School of Electrical Engineering, Serbia, in 1993, 1999, and 2007, respectively. He is currently working as a director of Belgrade University Computer Center, where he started working as a network engineer since he received bachelor's degree. He is also a professor at the Department of Computer Engineering and Computer Science at the School of Electrical Engineering, University of Belgrade, and the School of Electrical Engineering University of Banja Luka, where he is teaching topics in the field of computer networks and Internet technologies. His current research interests include the following: e-Learning, distance learning, video conferences; Data management (data e-infrastructure for massive data storage, user authentication and access, data analysis, security and policy); Computer networks (design, protocols, services); Network management; Multicomputers. He is an author of several articles in international scientific journals and ICT conferences. He has been a team leader of several EC founded projects (TEMPUS, FP5, FP6, FP7), as well as projects founded by Serbian Ministry of education, science and technological development. He is a national representative in e-Infrastructure Reflection Group (e-IRG), an advisory body of EC in ICT, and a member of technical program committees of several national and international ICT conferences.

Mr. Ognjen Blagojević, [M], magister EE, Deputy director at University of Belgrade Computer Center (RCUB). Graduated (2004) and got magister EE title (2010) in Computer Science and Informatics / Electrical Engineering at the University of Belgrade. Magister EE final work is titled: "Development of University of Belgrade information system, using code generators." From 2003 works at School of Electric Engineering Computer Center, since 2006 employed at RCUB. Has 11 years of experience in the development of software for higher education, as developer, team leader, release manager and QA. He is engaged in European projects TEMPUS and FP7. Co-author of three papers at national conferences.

Mr. Milan Vasiljevic, [M], holds MA degree in LIS from the University of Belgrade. He has more than six years of professional experience in various types of libraries. Since 2012 he's been been working in National library of Serbia as a electronic resources librarian. My key responsibilities are communication with publishers, national repository development, eThesis popularization. Previously he was awarded with grants for: Jay Jordan IFLA/OCLC Early Career Development Fellowship Program in 2011; IFLA annual conference travel grant in 2011. I am author of papers on library and web environment, standards, HR. I organize training for librarians and participate in projects dealing with the development of libraries.

4.1.44 *Centrum Vedecko Technickych Informacii Slovenskej Republiky (CVTISR)*

The Slovak Centre of Scientific and Technical Information (CVTI SR) is the national information centre for science, technology, innovation and education and a specialized scientific library of the Slovak Republic. CVTI SR is the directly-managed organisation (public body) of the Ministry of Education, Science, Research and Sport of the Slovak Republic. It is responsible for building, administration and development of national infrastructures for research, development and innovation (http://www.cvtisr.sk/en).

<u>Role in OpenAIRE2020:</u>

NOAD for Slovakia

<u>Related Projects:</u>

- National Information System for Supporting Research and Development in Slovakia – Access to Electronic Information Resources
- Infrastructure for Research and Development – Data Centre for Research and Development
- National Infrastructure for Supporting Technology Transfer in Slovakia – NITT SK
- PopVaT – Popularisation of Science and Technology in Slovakia

<u>Publications:</u>

- TURŇA, Ján, NOGE, Juraj, ZENDULKOVÁ, Danica. The system SK CRIS, scientific publications and theses – mirror of Slovak science.
- ZENDULKOVÁ, Danica. CERIF: standardization of information science.
- ŽITŇANSKÁ, Mária, SLIACKY, Michal, VAŇO, Marián, KRÁLIKOVÁ, Eva: Gold Value offer to Science and Research in Slovakia – is presented by the NISPEZ project and related activities.
- ŽITŇANSKÁ, Mária. Europe get ready for 2020: EC calls for public debate on Open Access issues.

<u>Key Personnel:</u>

Prof Jan Turnais, [M], the director general of the Slovak Centre of Scientific and Technical Information. He is active also at the Comenius University in Bratislava, as a vice-rector and the head of Molecular biology department. Jan acts also a plenipotentiary representative of the SR in the European Molecular Biology Laboratory; Knowledge Based Bio-Economy Network; and in the European Research Infrastructure Consortium established by the European Commission.

Lubomir BILSKY (man) is the director of Science Support Section at CVTI SR. He has been responsible for preparation and implementation of several national and international projects focused on support of scientific community in Slovakia, including active promotion of science and technology in society. He also co-ordinates activities related to building the national infrastructure for technology transfer support in Slovakia.

Dr Maria Zitnanska, [F] is the director of Scientific Library Section at the Slovak Centre of Scientific and Technical Information. During her professional career she worked in various senior librarian positions and was involved in development and promotion of library and information systems and services. She is a member of the Methodical Board of the Slovak National Library, the Slovak Library Association Executive Council and the Chair of Technical Committee 69 – Terminology, Information, and Documentation.

4.1.45   Univerza v Ljubljani (UL)

The University of Ljubljana is the largest and the oldest Slovenian public university (established in 1919). It is a full university, which means that the community of app. 5400 employees (app. 3600 of them are lecturers and researchers) and app. 46000 students is involved in educational and research activities covering all topics of human knowledge. Yearly, the research groups of the University partner in more than 400 projects, co-financed through the programmes of the European Commission. Because of its age, size and broad coverage of educational and research topics the University has very good relations with Slovenian policy makers and funders as well as with other academic and research organizations, nationally and internationally. The University is very active in informing the Slovenian open access stakeholders via the openaccess.si portal and mailing lists. It has gathered relevant experiences in OpenAIRE and OpenAIREplus projects as well as in the national Open Data project and during building of the national open access infrastructure for final works of studies and publications of researchers (openscience.si). All this will enable the University to successfully perform the tasks previewed in the proposal.

Role in OpenAIRE2020:

NOAD for Slovenia

Related Projects:

- OpenAIRE – Open Access Infrastructure for Research in Europe (2009-2012).
- Open Data (national project, financed by the Ministry of Education, Science and Sport, 2010-2013), carried out by the Social Science Data Archives of the Faculty of Social Sciences.
- openaccess.si: Slovenian National Open Access Web Site (national project, financed by EIFL, 2011).
- OpenAIREplus – 2nd Generation Open Access Infrastructure for Research in Europe (2011-2014).
- Pilot national open access infrastructure for final works of studies and publications of researchers (co-financed by the European Regional Development Fund and the Ministry of Education, Science and Sport, 2013).

Publications:

- KOTAR, Mojca. Strukturni okvir za odprto, digitalno raziskovanje - strategija, politika in infrastruktura = Structural frameworks for open, digital research - strategy, policy & infrastructure, Kopenhagen, 11.-13. 6. 2012. Knjižničarske novice, 2012, vol. 22, no. 8, p. 18-23.
- OJSTERŠEK, Milan, BREZOVNIK, Janez, FERME, Marko, BOROVIČ, Mladen, KOTAR, Mojca. Pilotna vzpostavitev nacionalne infrastrukture odprtega dostopa do zaključnih del študija in objav raziskovalcev = A pilot implementation of a national infrastructure for open access to e-theses and research publications. In: KAVČIČ-ČOLIČ, Alenka (Ed.), VODOPIVEC, Ines (Ed.). Izzivi sodobnih tehnologij : konkurenčna prednost knjižničnih storitev : zbornik referatov = Challenges of modern technologies : the competitive advantage of library services : proceedings. Ljubljana: Zveza bibliotekarskih društev Slovenije: = Slovenian Library Association, 2012, p. 235-248.
- KOTAR, Mojca. Odprti dostop v Evropski uniji in v Sloveniji : odprte objave in raziskovalni podatki ter njihovo povezovanje. Knjižničarske novice, 2013, vol. 23, no. 10, p. 1-8.
- Arhiv družboslovnih podatkov [Social Science Data Archives], member of CESSDA, managed by the Faculty of Social Sciences, partner in SERSCIDA project.
- ŠTEBE, Janez, BEZJAK, Sonja, LUŽAR, Sanja. Odprti podatki : načrt za vzpostavitev sistema odprtega dostopa do raziskovalnih podatkov v Sloveniji [Open Data - Action Plan for the Establishment of a System of Open Access to Publicly Funded Research Data in Slovenia].

Key Personnel:

Dr Mojca Kotar, [F], Assistant Secretary General, University Office of Library Services, completed her studies with a thesis on bibliometrics, is coordinating the activities of the University of Ljubljana libraries and is also involved in consortia for licensed information resources. She was active in openaccess.si, openscience.si, OpenAIRE and OpenAIREplus projects.

4.1.46 Fundacion Espanola Para la Ciencia y la Tecnologia (FECYT)

FECYT (Fundación Española para la Ciencia y la Tecnología) is a public foundation under the Ministry for Economy and Competitiveness that was established in 2001. Its mission is to promote science and innovation by bringing it closer to the general public and responding to the requirements of the Spanish Science, Technology and Business System (SECTE). On OpenAIRE2020 FECYT will participate as NOAD in WP2 (Outreach and dissemination) and WP4 (Support and Training). The previous experience of FECYT on OpenAIRE and OpenAIREplus (as NOAD), and in MedOANet, demonstrate FECYT's ability to perform its tasks on OpenAIRE2020.

Infrastructure:

Role in OpenAIRE2020:

NOAD for Spain

Related Projects:

At the National level:

- RECOLECTA – Open Access National Harvester (2009-today)

FP7 projects:

- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)
- MedOANet – Mediterranean Open Access Network (2011-2013)

Publications:

FECYT works closely with the National Open Access Point of Reference, designated by the European Commission. In 2009, FECYT launched RECOLECTA (http://recolecta.fecyt.es), the national harvester for Open Access repositories. Through RECOLECTA, FECYT promotes that every University and R&D centre creates and manages its own OpenAIRE compatible institutional repository:

- RECOLECTA WG for Repositories Evaluation (2014). Nueva guía actualizada de Evaluación de Repositorios. Madrid: FECYT. (in press).
- RECOLECTA WG for Archiving and Managing Open Data (2012). *The preservation and reuse of scientific data in Spain.* Madrid: FECYT.
- RECOLECTA WG for Archiving and Managing Open Data (2012). *La conservación y reutilización de los datos científicos en España. Informe del grupo de trabajo de buenas prácticas.* Madrid: FECYT (2012).

Key Personnel:

Mrs. Cristina González, [F], holds a Master's Degree in Modern History and a Master specialization in Documentation. Following twelve years at FECYT, she has a four years' experience as Director of the Scientific Information Management Department. The Department manages both traditional access to scientific information (commercial publishers) and those new scientific markets that emerge after OA. She runs the Unit for Scientific Resources and the Unit for the promotion of Open Access, Repositories and Scientific Journals. The latter runs OA projects: the National harvester RECOLECTA, OpenAIRE, OpenAIRE Plus and MedOANet. It also runs the quality evaluation of the Spanish scientific journals and the provision of services for them.

Dr. Pilar Rico, [M], holds a Master's Degree in Political Sciences and a PhD on R&D Public Policies. She has a nine years' experience as project manager at FECYT, and seven years as Head of Unit. Pilar is currently head of the Unit for the promotion of Open Access, Repositories and Scientific Journals. In the past three years, she has lead in FECYT our participation in the FP7 projects for Open Acess Open Aire, Open Aire Plus and Medoanet.

Mrs. Mercedes de Miguel Estévez, [F], holds a Biology Degree, with specialization in Biotechnology, and a Master Degree in Project Management. She has nine years' experience in project management. She works at the Unit for the promotion of Repositories and Open Access in FECYT. The unit runs national and international OA projects. She is the project manager responsible for the RECOLECTA project.

4.1.47 Kungliga Biblioteket (KBSE)

The National Library of Sweden (Kungliga biblioteket, KBSE) combines the traditional tasks of a national library, like maintaining national bibliographic services, receiving legal deposit and providing long-term access to documents, with that of a national library authority.Since 1990 KBSE has been assigned by the Swedish Government to coordinate research libraries in Sweden in providing information to higher education and research. From 2011 this coordinating role has been extended to all publicly financed libraries. The KBSE also organises central purchasing of licenses for electronic resources for the national BIBSAM consortium of research libraries.

KBSE has promoted the development of e-publishing within higher education and Open Access since 2002 and since 2010 it runs the national development programme OpenAccess.se. The main objective of the programme is to promote Open Access to the works produced by Swedish researchers, teachers and students. This is accomplished by supporting Open Access publishing - OA repositories and OA journals - at Swedish institutions of higher education.

The programme has three areas of operation: information and advice, development of infrastructure and services, and coordination of open access policies.

The program has an active website, openaccess.se that primarily gives general information about Open Access, targeting researchers and the general public. The program also serves as a platform for coordinating and communicating policy on Open Access between the stakeholders involved, to government and the wider society.

Through the programme OpenAccess.se KBSE also works closely together the Swedish Research Council, which has an EU-initiated governmental commission to coordinate free access to scientific information among Swedish research funders and research organisations.

The Swedish national scholarly publication database SwePub has been developed as a result of the work within the programme OpenAccess.se. The SwePub covers 650 000 scientific publication records harvested from repositories at Swedish higher education institutions and is the central hub for publication information in the emerging Swedish ecosystem for research information

Role in OpenAIRE2020:

NOAD for Sweden

Related Projects:

- OpenAIRE – Open Access Infrastructure Research for Europe (2009-2012)
- OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)

Key Personnel:

Mrs. Ilona Lipovszky Johansson, [F], is Licensing Manager Open Access at the unit for National Coordination of Libraries at the National Library of Sweden. She negotiates license agreements for electronic resources for the BIBSAM consortium with a special focus on Open Access. She has a background as an information specialist and project manager at different libraries, among them the libraries of the Swedish Parliament, the European Parliament and the Swedish Supreme Administrative Court.

Mr. Ulf Kronman, [M], is a Senior Executive Officer at the unit for National Coordination of Libraries at the National Library of Sweden. He works as the coordinator of the development program OpenAccess.se and has a 30 year background as a systems engineer in research libraries and experience in working with bibliometrics and open access at the Karolinska Institute, the KTH Royal Institute of Technology and the Swedish Research Council.

4.1.48 Universitaet Zuerich (UZH)

The University of Zurich (UZH) is a pioneer of Open Access in Switzerland and the largest university in the country. It is one of the top universities in Europe and a member of the "League of European Research Universities" (LERU).

UZH was one of the first universities worldwide to adopt an Open Access policy in 2005. The policy was enhanced three years later to become a mandate, henceforth requiring researchers to deposit a copy of all their published scientific works in the Zurich Open Repository and Archive (ZORA) if there are no legal objections. ZORA offers Open Access to 35-40% of all works published by UZH since 2008. The university also encourages and supports their authors to publish their research articles in Open Access journals. UZH received "BioMed Central's Open Access Institute of the Year" award in 2010. Furthermore, the university was mentioned as one of ten successful OA models in the study "Implementing Open Access: policy case studies".

Implementation of Open Access at the UZH is done by its Main Library. At the national level, major contributions were made to the very ambitious Swiss University Conference (SUC) program 2013-2016 P-2 "Scientific information: access, processing and safeguarding". The UZH Main Library coordinated the national input on Open Access to this program and submitted several projects within this framework promoting Open Access including research data. The Main Library also contributes to the information platform "open-access.net" and regularly participates in the program committee of the "Open Access Days", the largest meeting on Open Access in German-speaking Europe.

Role in OpenAIRE2020:

NOAD for Switzerland

Related Projects:

- Swiss University Conference (SUC) program 2013-2016 P-2 "Scientific information: access, processing and safeguarding" – Conception and coordination for the Open Access part of the program (2013-2016)
- OpenAIREplus – 2nd- generation Open Access Infrastructure for Research in Europe (2011-2014): National Open Access Desk (NOAD) for Switzerland.
- Zurich Open Repository and Archive (ZORA) – concepts, implementation and support of ZORA including Journal Database.

Publications:

- Fuhrer, C; Gutknecht, C; Moser, F (2012). Open Access: urheberrechtliche Aspekte und neue Trends. IG WBS, Rundbrief 59 - Urheberrecht, 8-12
- Fuhrer, C (2009). Wissenschaftliches Arbeiten im Wandel aus der Sicht von Online-Repositorien. In: Barth, R et al. Churer Schriften zur Informationswissenschaft 33. Die Lernende Bibliothek 2009: Wissensklau, Unvermögen oder Paradigmenwechsel? Chur, 211-219
- Fuhrer, C (2009). ZORA: Open Access at the University of Zurich. arbido 37: 2009, 22-25

Key Personnel:

Mr. Christian Fuhrer, [M], is the Head of the Open Access team at the Main Library of the UZH. This is the largest and best established Open Access team at a Swiss university. Christian obtained his Ph.D. in Biochemistry at the University of Basel in 1993 and worked as postdoctoral researcher in neuroscience at the University of California San Francisco and the National Institutes of Health in Bethesda, U.S. He headed a neuroscience research team at the University of Zurich and became Adjunct Professor for Neurobiology (Habilitation, Venia Legendi, Titularprofessor) at UZH in 2005. He has been working at the Main Library to promote Open Access since 2006 and represents two central stakeholders in Open Access – researchers and librarians. He has been active in the SUC program, "open-access.net" and "Open Access Days" as mentioned above.

Mr. André Hoffmann, [M], is an information professional specializing in Open Access including long term preservation and data management. After graduating in the field of social sciences and working for several years for the Social Science Archive at University of Konstanz (Germany) he became Open Access manager in Konstanz which involved the participation in Open Access infrastructure projects i.e. OAFR (DFG) and OpenAIRE. Since 2012 he has been responsible for long term preservation planning and management of the institutional repository ZORA at the University of Zurich as part of the Main Library's Open Access team. In addition, he is participating in the development of an institutional data management strategy and is advocating Open Access compliancy on a national level as National Open Access Desk within the project OpenAIREplus.

4.1.49 Izmir Institute of Technology (IIT)

Izmir Institute of Technology (IIT) is a state university established in 1992 as one of the two institutes of technology in Turkey in order to provide a high quality education and put emphasis on carrying out research in technological fields within our faculties.

IIT consists of Faculties of Science, Engineering, Architecture, and the Graduate School of Engineering and Sciences.

IIT created its institutional repository – Dspace@IZTECH – in 2013. Izmir Institute of Technology has become the first institution in Turkey, which agreed to adopt a "mandate policy" in Turkey on Open Access

Role in OpenAIRE2020:

NOAD for Turkey.

On OpenAIRE2020 IIT will be responsible for the WP2 (outreach and dissemination and WP4 (Support and Training). The previous experience of IIT on OpenAIREplus and demonstrate IIT's ability to perform its tasks on OpenAIRE2020.

Related Projects:

* OpenAIREplus – 2nd Open Access Infrastructure Research for Europe (2011-2014)
* SCOAP3 – Sponsoring Consortium for Open Access Publishing in Particle Physics (2013-)
* National Academic Repository Project (2014-)

Key Personnel:

Mr. Gultekin Gurdal, [M], was graduated from Hacettepe University Library Science Program (currently the Information Management Program) in 1990 and completed his MBA degree from Kocaeli University. He has been continuing to be the Library Director at Izmir Institute of Technology (IYTE) since 2005. He served as the Chairman of the Anatolian University Libraries Consortium (ANKOS) Currently, he serves as the Coordinator of the ANKOS Open Access and Institutional Repositories Working Group. He is OpenAIREplus project partner and the national contact person of SCOAP3 project for Turkey. At the same time, he has been elected one of the member of "Open Access Working Group" which was founded by The Turkish Higher Education Council (YOK).

Mrs. Gonul Kafali, [F], was graduated from Ege University, Communication Faculty in 1994. She is working as a specialist at the reference department of IIT Library. She is participating in OpenAIREplus. She has been involved in the promotion, communication and advocacy of various activities related to Open Access.

4.1.50 University College London (UCL)

UCL is London's Global University and powerhouse for research outputs across all major areas of academic study. UCL is consistently ranked in the top 10 universities in the world. UCL has been a European leader in advocating and implementing open access (OA), which it holds to be both right in principle and also a key mechanism for the effective dissemination of research outputs critical to achieving public benefit. UCL has been a pioneer in UK higher education in terms of developing institutional OA policy and establishing an institutional OA repository, UCL Discovery.

Role in OpenAIRE2020:

Participation in WP7 related to the APCs policies and workflows.

Key Personnel:

Mr. Paul Ayris, [M], is Director of UCL Library Services and UCL Copyright Officer. He is also President of LIBER (Association of European Research Libraries) and Chair of the LERU Chief Information Officers Community (League of European Research Universities). Paul has extensive experience of working in European projects, and was Scientific Manager for Europeana Libraries. He also has extensive experience in advocating for library and information developments in Europe to the EU Commission as part of the European Research Area (ERA).

Mr. Martin Moyle, [M], is Group Manager (IT & Bibliographic Services) in UCL Library Services. Martin has extensive experience of working on EC projects, having led Work Packages in EuropeaTravel, Europeana Libraries and Europeana Cloud. He has managed a number of projects funded by UK funders in digital libraries and open access, and he oversees the DART-Europe E-Theses portal, which aggregates metadata for over 480,000 Open Access European research theses from 555 European Universities in 28 countries.

Mrs. Catherine Sharp, [F], is Open Access Funding Manager in UCL Library Services. She took up this post in early 2013, having previously managed the University's e-journal portfolio. She manages UCL's Open Access grants from the Research Councils UK (RCUK) and Wellcome Trust, and UCL's own Open Access budget. In her current role she has established a successful advocacy programme, worked extensively with publishers to set up prepayment schemes and simplify processes, set up a team to handle payments, and exceeded UCL's RCUK compliance target for Open Access. She was a member of the JISC (UK) APC project Steering Group, and played a key role in a in a pan-European workshop, "Towards an Efficient System for Managing APCs", organised by the German Research Foundation (DFG) and the Max Planck Digital Library (November 2013).

4.2 Third parties involved in the project (including use of third party resources)

The following applicants will involve subcontracting or third parties:

- National and Kapodistrian University of Athens (UoA)
- Georg-August – Universitaet Goettingen Stiftung Oeffentlichen Rechts (UGOE)
- Athena Research and Innovation Cetner (ARC)
- STICTHING LIBER (LIBER)

4.2.1 National and Kapodistrian University of Athens (Coordinator) (UoA)

Does the participant plan to subcontract certain tasks (please note that core tasks of the project should not be sub-contracted)	YES
If yes, please describe and justify the tasks to be subcontracted <u>Subcontracting Action: Legal, business and accounting services (35,000 €)</u> UoA will commission a task for legal and accounting teams to advise and assist in setting up of the OpenAIRE legal entity. There will be a call for tenders at M3, the evaluation will be at M6 and the results will be expected at M12. The evaluation will be approved by the PSC. The subcontractor will be selected from the country where OpenAIRE will be legally establisehed and needs to provide evidence that has excellent expertise in similar tasks.	
Does the participant envisage that part of its work is performed by linked third parties[1]	NO
If yes, please describe the third party, the link of the participant to the third party, and describe and justify the foreseen tasks to be performed by the third party	
Does the participant envisage the use of contributions in kind provided by third parties (Articles 11 and 12 of the General Model Grant Agreement)	NO
If yes, please describe the third party and their contributions	

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[1] A third party that is an affiliated entity or has a legal link to a participant implying a collaboration not limited to the action. (Article 14 of the Model Grant Agreement).

4.2.2 Georg-August – Universitaet Goettingen Stiftung Oeffentlichen Rechts (UGOE)

Does the participant plan to subcontract certain tasks (please note that core tasks of the project should not be sub-contracted)	YES
If yes, please describe and justify the tasks to be subcontracted Subcontracting Action: Open Review Pilots (2 x 30,000 €) UGOE will commission two pilots/prototypes in the scope of WP7.4 to showcase proofs of concept for open peer review. There will be a call for tenders at M4, the evaluation will be at M6 and the results will be expected at M12. The evaluation will be approved by the PSC. The subcontractors will be from a neutral organisations or SMEs with experience in open review methodologies and platforms. The results of the pilots will be integrated in the study D7.4-" Novel models for open peer review ".	
Does the participant envisage that part of its work is performed by linked third parties[2]	NO
If yes, please describe the third party, the link of the participant to the third party, and describe and justify the foreseen tasks to be performed by the third party	
Does the participant envisage the use of contributions in kind provided by third parties (Articles 11 and 12 of the General Model Grant Agreement)	NO
If yes, please describe the third party and their contributions	

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[2] A third party that is an affiliated entity or has a legal link to a participant implying a collaboration not limited to the action. (Article 14 of the Model Grant Agreement).

4.2.3 Athena Research and Innovation Cetner (ARC)

Does the participant plan to subcontract certain tasks (please note that core tasks of the project should not be sub-contracted)	YES
If yes, please describe and justify the tasks to be subcontracted **Subcontracting Action: 3rd party applications using OpenAIRE (2 x 40,000 €)** ARC will commission two pilots/prototypes in WP9 with the aim to foster and facilitate the realization of applications by third-party service providers and/or young innovators using the OpenAIRE infrastrucure. There will be a call for tenders at M15 the evaluation/selection will be at M15 and the results will be expected at M29. The evaluation will be approved by the PSC. The subcontractors will be from a neutral organisations or SMEs or young individuals with proven technical epxerience. The results of the pilots will be integrated in the report D9.5-" Innovative Services report ".	
Does the participant envisage that part of its work is performed by linked third parties[3]	YES
If yes, please describe the third party, the link of the participant to the third party, and describe and justify the foreseen tasks to be performed by the third party **Financial Support to 3rd parties for the Gold OA pilot on FP7 post-grant publication APCs (3,999,930 €)** As stated in the EINFRA-2-2014 call which OpenAIRE2020 addresses, the project must " …include the accessory task of piloting a mechanism to stimulate publishing in open access journals by paying authors part or all of the article processing charges they incurred after the end of their grant agreement with the Commission" and that "a maximum of EUR 4 million of the total budget for this topic is foreseen for the article processing charges". OpenAIRE2020 addresses this topic through WP5 where all proposed processes and actions are described in detail. LIBER will be leading this pilot and ARC will be issuing the funds to publishers and other organization as set out by the criteria in Task 1 of WP5. Those eligible to receive payment from the fund include FP7 grant recipients (or their host institution on behalf of the grant recipient/s) who are within two years post the project end date. The payment to grant recipients will be based on the number of articles (max 3 per grant number) or monographs (max 1) published in open access and the cost of processing (up to maximum amount per article/monograph as defined above). Host institutions with several grant recipient will be able to submit bulk claims to the pilot fund. Publishers will also be eligible to receive payments from this fund, either in the form of a bulk prepayment calculated on the projected number of eligible articles published or an bulk payment based on the actual number of eligible articles published. Where a prepayment has been made, provision will be included to repay any difference between projected and actual number of articles processed. The objective of agreeing bulk payments to publishers is to increase the efficiency of the Gold OA pilot processes, therefore it may be necessary to grant third party publishers payments in excess of 60000 euro. These payments will be strictly based on the most accurate projection of eligible articles process and a written agreement by the publisher to comply with the specification for publication laid down by the pilot. The pilot will start almost immediately with the start of the project and will last 24 months. For an efficient rollout and monitoring, the consortium has set a milestone at M12 so that is is able to evaluate the progress of fund spending and re-align if necessary.	
Does the participant envisage the use of contributions in kind provided by third parties (Articles 11 and 12 of the General Model Grant Agreement)	NO
If yes, please describe the third party and their contributions	

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[3]   A third party that is an affiliated entity or has a legal link to a participant implying a collaboration not limited to the action. (Article 14 of the Model Grant Agreement).

4.2.4 Stichting LIBER (LIBER)

Does the participant plan to subcontract certain tasks (please note that core tasks of the project should not be sub-contracted)	YES
If yes, please describe and justify the tasks to be subcontracted Subcontracting Action: Gold Open Access Market/Economic Impact Study (60,000 €) This sub-task will commission a study is to gather and analyse data related to the open access publishing market in Europe. The subcontractor will be from a neutral organisation with a track record and experience in either economic analysis or impact assessments. The study will draw on data collected during the Gold Open Access pilot, as well from national and institutional case studies where available in order to explore the current and future impact of APC funding in Europe. The study will be subcontracted to the leader of WP5. It will be presented at the workshop on a sustainable and competitive open access market and form the basis of the resulting roadmap. Subcontracting Action: Invoice processing (10,000 €) This sub-task is for the adaptation of the LIBER financial system to the needs of the Gold open access pilot, the processing of invoices and payments to LIBER from the APC fund help by the coordinator. The LIBER financial system is currently subcontracted to an outside provider. This system will be updated to gather invoice data specific to the pilot such as grant number, author, institution. The cost for this subtask is calculated based on a projected number of 270 invoices to be processed.	
Does the participant envisage that part of its work is performed by linked third parties[4]	NO
If yes, please describe the third party, the link of the participant to the third party, and describe and justify the foreseen tasks to be performed by the third party	
Does the participant envisage the use of contributions in kind provided by third parties (Articles 11 and 12 of the General Model Grant Agreement)	NO
If yes, please describe the third party and their contributions	

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[4] A third party that is an affiliated entity or has a legal link to a participant implying a collaboration not limited to the action. (Article 14 of the Model Grant Agreement).

Section 5: Ethics and Security

No ethical or security issues involved in OpenAIRE2020.

April 11, 2014

Professor Mike Chatzopolous
University of Athens
mike@di.uoa.gr

Letter of Intent: Cooperation between the SHared Access Research Ecosystem (SHARE) and OpenAIRE 2020

On behalf of the SHARE Steering Group, we would like to express our interest and support for the Coordination Action "OpenAIRE 2020" and its objectives within the Horizon 2020 Programme to support the open access mandate of the European Commission. OpenAIRE is an open access infrastructure at a global level that supports the policies of the European Commission and the implementation of the Horizon 2020 open access mandate.

SHARE is a North American higher education and research community initiative to ensure the preservation of, access to, and reuse of research outputs. Recent US government initiatives to ensure public access to federally funded research have created a new and timely opportunity for the higher education community to better structure its strategies and systems for managing both data and publications. SHARE aims to work with US federal agencies and other funders to enable the inventory, preservation, accessibility, and reuse of research outputs.

SHARE has had recent communication with OpenAIRE and clearly shares joint objectives in terms of implementing open access, and looks forward to having closer ties via technical and networking collaboration. Open access is now at a critical stage whereby these global networks have to be aligned and coordinated both to leverage content, and to cover the communication needs of a global community of scholars. Areas of collaboration are as follows:

- Supporting repository interoperability by considering OpenAIRE guidelines in SHARE's development. This will increase interoperability and valuable information exchange of scholarly materials.
- Information sharing on open access policy implementation, e.g., news items about developments in OpenAIRE newsletters.
- Keeping OpenAIRE informed of major infrastructural developments in North America to support open access.

Many countries and regions around the world are adopting open access policies and developing repository networks. They all will benefit if knowledge is exchanged and embedded as appropriate in the OpenAIRE infrastructure.

SHARE fully supports your goals of implementing the open access mandate and giving support to a wide range of stakeholders throughout Europe on all matters related to practical open access issues. We welcome participation in each other's events and workshops when appropriate.

We look forward to productive collaboration.

Sincerely yours,

Richard Luce
SHARE Steering Group co-chair
Dean, University Libraries
Peggy V. Helmerich Chair
Associate Vice President for Research
University of Oklahoma

Tyler Walters
SHARE Steering Group co-chair
Dean, University Libraries
Virginia Tech

Göttingen, 11 April 2014

Dear Prof. Chatzopolous,

Letter of Intent: Cooperation between DARIAH-EU and OPENAIRE 2020

DARIAH, the Digital Research Infrastructure for the Arts and Humanities, aims to enhance and support digitally-enabled research and teaching across the humanities and arts. We are in the final stages of establishing DARIAH as a European legal entity, the DARIAH-ERIC ([European Research Infrastructure Consortium](#)). To date, 12 countries - Austria, Cyprus, Denmark, France, Germany, Greece, Ireland, Italy, Luxembourg, The Netherlands, Slovenia and Serbia – have committed to become Founding Members.

With this letter, we would like to express our interest and support on behalf of DARIAH-EU for the Research and Innovation Action "OPENAIRE 2020" and its objectives within Horizon 2020 programme to support the open access mandate of the European Commission. OpenAIRE is an open access infrastructure at a global level that aims to support the policies of the European Commission and the implementation of the Horizon 2020 open access mandate. OpenAIRE 2020 will also provide some support for the EC's Open Research Data Pilot and provide support for data management planning and promotion of data sharing.

DARIAH-EU is a research infrastructure developed by researchers, for researchers. We are committed to advocating for Open Humanities research. Our key activities in this area include: supporting researchers depositing their publications in trusted Open Access repositories and developing data sharing agreements for use by the arts and humanities research community throughout Europe. We are therefore aware of the need to coordinate efforts at a European level to support researchers and scientists to publish their results openly and promotion of open science. We envisage areas of collaboration as follows:

- Support for researchers to adhere to H2020 OA obligations. OpenAIRE will work on some easy-to-digest guides and information/training/recorded webinars for researchers. The tools and materials that OpenAIRE creates will be made available under open licences (CC-BY). DARIAH-EU offers to support in disseminating these materials via our extensive channels to the European arts and humanities research community.
- Support for researchers for the Open Research Data Pilot. Research data management plans are required at the proposal and planning stage for many projects applying for H2020 grants. DARIAH-EU offers to spread relevant information about the pilot, and the ways of complying, via our networks.

We are interested in supporting the ambitions of OpenAIRE, as we share the same objectives in supporting researchers and scholars to publish their work as openly as possible. DARIAH-EU also supports actions to disseminate practical information about open access and open data to researchers throughout Europe. We are also happy to participate in each other's events, workshops, where appropriate. It is of benefit if knowledge is exchanged and embedded where appropriate in the between both parties. We wish you success in your proposal and look forward to a fruitful collaboration.

Sincerely yours,

Dr. Laurent Romary,   Dr. Tobias Blanke,   Dr. Conny Kristel
Director, DARIAH-EU   **Director, DARIAH-EU**   **Director, DARIAH-EU**

Mike Chatzopolous
University of Athens

April 7th, 2014

Letter of Intent: Cooperation between the European IPR Helpdesk and OPENAIRE 2020

With this letter, we would like to express our interest and support on behalf of the European IPR Helpdesk for the Coordination Action "OPENAIRE 2020" and its objectives within Horizon 2020 programme to support the open access mandate of the European Commission.

IPR Helpdesk is the official IP service initiative of the European Commission providing free-of-charge, first-line advice and information on Intellectual Property (IP) and Intellectual Property Rights (IPR). The service is targeted at researchers and European small and medium-sized enterprises (SMEs) participating in EU-funded collaborative research projects. In addition it addresses SMEs involved in international technology transfer processes. To raise the awareness on the importance of IP and on how to manage it, the European IPR Helpdesk provides a Helpline service, organises training activities, participates in awareness raising events and produces several publications We are therefore aware of the need to coordinate efforts to support a range of stakeholders on copyright and IPR issues.

Other areas of collaboration are as follows:

- Embedding open access information/quick tips into support material about the open access mandate and requirements where appropriate (e.g. slides in webinars, short paragraph on IPR website).

- Embedding information about the European IPR Helpdesk (short summary, logo and contact) where appropriate (e.g. slides in presentations, information on OpenAIRE website).

- Helpdesk bi-directional exchange, e.g. both parties willing to exchange questions where the expertise might be suited to the other party on either IPR issues or open access policies and implementation.

- Open Data Pilot and Research data – IPR issues. OpenAIRE is happy to share its own studies in this area and contribute to a body of knowledge in this area to support licensing questions for research data.

In addition, both parties run support and training programmes to support Horizon 2020. It is of benefit if knowledge is exchanged and embedded where appropriate (e.g. contributing slides about open access for webinars, embedding basic open access information on IPR Helpdesk website).
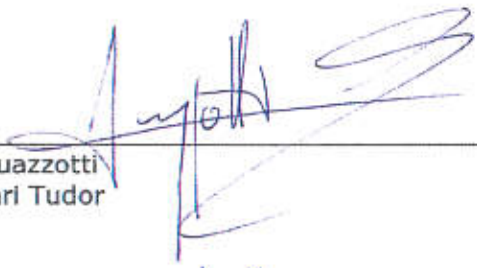
OpenAIRE is an open access infrastructure at a global level that supports the policies of the European Commission and the implementation of the Horizon 2020 open access mandate. The particular focus on developing stronger information sharing between OpenAIRE and the IPR Helpdesk is very much appreciated.

We fully support your goal of implementing the open access mandate and giving support to a wide range of stakeholders throughout Europe, on all matters to do with practical open access issues, including copyright and IPR issues. We are also happy to participate in each other's events, workshops, where appropriate.

We look forward to a fruitful collaboration.
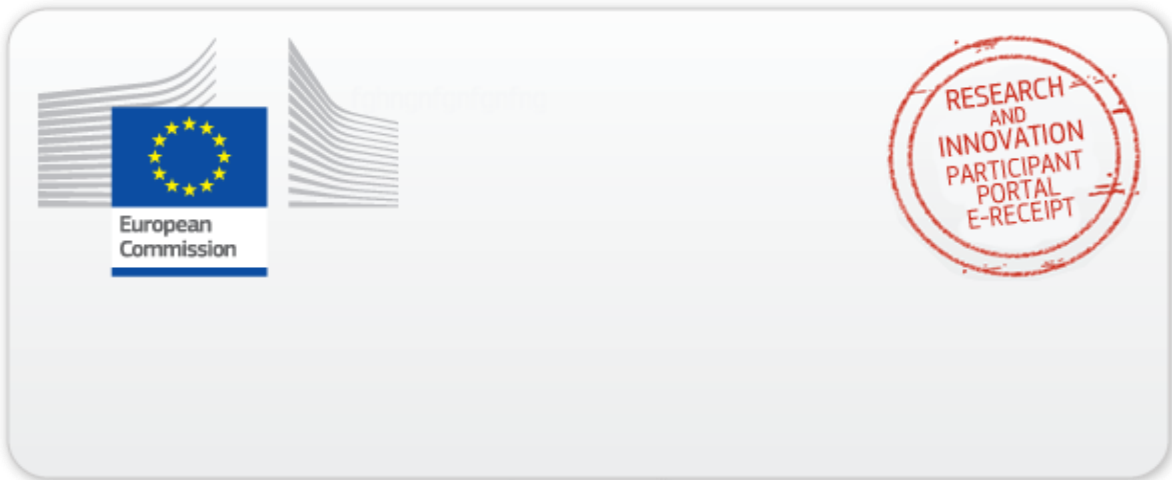
Sincerely yours,

Serge Quazzotti
CRP Henri Tudor

Joerg Scherer
Eurice GmbH

Stefan Geier
Infeurope SA

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