

Scholarly communication in the context of Open Science : the need for infrastructures

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OpenEdition / OPERAS

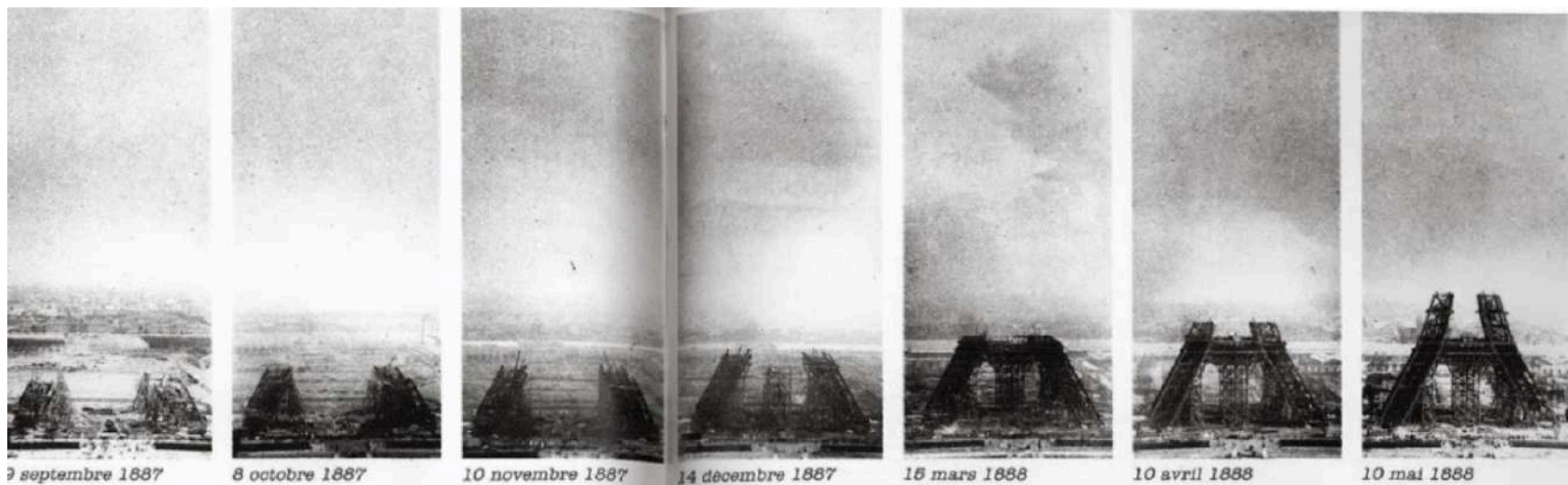
Open Access in the Humanities – Academic Book Fair

Ljubljana

May 22 2018

**OPERAS-D**

(Introduction): starting points...



Putting down roots

KE
Knowledge Exchange



Putting down roots
Securing the future of
open access policies

Workshop 20 November 2015
Report dated January 2016

DFG Jisc CSC DEff SURF

- » **Support and dissemination services** assist authors and institutions in implementing OA and complying with OA policies. The most widely used are the SHERPA services, which are consistently relied on to support OA repository workflows.
- » **OA repository services** encompass a wide range of repository and related services that are crucial to the implementation of open access archiving. The critical dependency in this case is not on one or two individual services, but on the success of efforts to improve interoperability across the OA repositories landscape.

We also considered a range of **OA publishing services** and **OA monitoring services**. At the present time, policies are not highly dependent on these services but they seem likely to grow in importance in the future.

The implementation of OA policies relies on the development of a fully-functioning OA infrastructure

1.3. Priorities for action

The fundamental challenge for the implementation of OA policies is the need to develop a fully functioning OA infrastructure from the current disparate collection of services. This study has taken the form of a broad survey of the current OA policy and service landscape, and further work is needed to translate our findings into specific, costed recommendations. Nevertheless, the broad direction of travel is clear if OA policies are to be successfully implemented. Four priorities for action have therefore been identified:

1. **Adopt sound governance structures** with greater representation from funders and policy makers, promoting the wider use of crucial identifiers and standards.
2. **Ensure the financial sustainability of critical services**, particularly the DOAJ and SHERPA services.
3. **Create an integrated infrastructure for OA repositories** based on central 'nodes', interoperability across the broader landscape, and increased engagement with the European Commission's OpenAIRE project and the work of the Confederation of Open Access Repositories (COAR).
4. **Invest strategically in OA services in order to create a coherent OA infrastructure** that is efficient, integrated and representative of all stakeholders.

A landscape study on open access and monographs

- Eelco Ferwerda (Oapen)
- Frances Pinter (KU Research)
- Niels Stern (Nordic Council)

- Knowledge Exchange
- FWF
- CRIStin
- Couperin



A comparative study in 8 countries

- UK
 - Germany
 - France
 - Denmark
 - Netherlands
 - Austria
 - Norway
 - Finland
- Methodology :
 - Data gathering (DOAB, EBSCO, OCLC, OpenAIRE, ROARMAP, etc.)
 - Literature review
 - Online survey (libraries, publishers, funders)
 - In-depth interviews

245

OA policies worldwide
including books or
sections of books

85

of these are mandates

Est. 10,000

OA monograph titles
available globally in
English

At least 200

publishers offering OA
options for monograph
authors

KE study in a nutshell

- Something is happening :
existence of policies, remarkable initiatives in all countries
- Diversity : the models are deeply rooted in national systems and cultures
- There is money in the system (mainly to subsidise print copies)

are becoming increasingly interested in or options are not sufficiently funded.

It is unlikely that any single, overarching business model will gather much traction as the solutions will be multifaceted and different within different types of publishing operations and within each country – though learning from each others' experiences would be very helpful going forward.

There are some experiments in university and academic-

Models to support OA monographs

	Publishers	Institutions	Libraries	Funders	Academics	Policymakers
Library-university press collaboration: from providing a basic publishing platform through to a full-service publisher		■	■			
New university press – traditional press collaboration: universities manage some aspects of publishing while outsourcing other elements to traditional publishers	■		■			
Including monographs in OA policies/mandates				■		■
Allowing BPCs to be paid from general OA publication funds: giving space for experimentation by authors, publishers and funders		■		■		
Co-ordinated approach to OA monographs: several funders working together to create joined-up policies and eventually mandates		■		■		■
Supporting investigation and experimentation: through pilot projects and research				■		■
Collaborative funding: aggregating funds from different institutions and individuals to crowd-fund OA monographs	■		■		■	
Public funding of an OA platform: government support of a platform and business model that facilitates OA monograph publishing				■		■
Supporting infrastructure development to set up OA book publishers: establishing new presses and sharing the learning that arises from this		■	■	■		
Building a disciplinary academic community around a new publishing venture: discipline-specific monograph ventures developed with academic support to secure credibility	■		■		■	
Examples of clear governance and structure around new presses: involving range of groups in new university presses to build credibility/engagement		■	■		■	
Collaboration on developing standards in and sharing of services for infrastructure: publishers in different territories have shared access to/understanding of infrastructure	■		■	■		■
Joint label to support quality assurance and dissemination: building scholarly trust in the outputs of OA monograph labels	■		■	■		
OA fund for aspects/types of monographs: providing flexibility that allows authors to cover all relevant costs associated with their OA monograph				■		■



Open Access in Humanities and Social Sciences : a milky way

OPERAS-D Project

OPERAS
open access in the european research area through scholarly communication

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OPERAS-D

OPERAS-D

About OPERAS-D

The OPERAS-D (Design) project supports the 9 main partners ("core group") of the OPERAS network in the development of a European e-infrastructure for open access publications in the SSH. The project addresses long-term requirements for the development of the e-infrastructure and community building, as well as seeks to expand other interested parties within and beyond Europe, and in diverse fields of the SSH. To achieve this goal, the key objectives of the OPERAS-D project are to prepare a design study that defines governance models, structures and scientific and technical concepts for future services that the infrastructure will provide, and

OPERAS BLOG

- OPERAS Conference: "Open Scholarly Communication in Europe, Addressing the Coordination Challenge" 24/04/2018
- The Open Library of Humanities (OLH) introduces EmpowCA 18/04/2018
- CNRS supports OPERAS in its recommendations for FPS 17/04/2018
- "United We Stand" - Presentation at the 2018 University Press Resilux Conference 17/04/2018
- EAST: Enhanced Accessibility

Design for Open access Publications in European Research Areas for Social Sciences and Humanities

De 2017-01-01 à 2018-06-30, projet en cours

Détails concernant le projet

Coût total: EUR 408 586,25	Sujet(s): INFRASUPP-03-2016 - Support to policies and international cooperation for e-infrastructures
Contribution de l'UE: EUR 408 586,25	Appel à propositions: H2020-INFASUPP-2016-1 See other projects for this call
Coordonné à/au(x)/en: France	Régime de financement: CSA - Coordination and support action

Objectif

OPERAS-D (Design) project will support the 5 main partners ("core group") of the OPERAS network in the development of a European e-infrastructure for open access publications in the Social Sciences and Humanities (SSH). The project will address long-term requirements for the development of the e-infrastructure and community building, as well as seek to expand other interested parties within and beyond Europe, and in diverse fields of the SSH. To achieve this goal, the key o...

Coordinateur

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	France
RUE MICHEL ANGE 3 75794 PARIS France	Contribution de l'UE: EUR 100 932,50
Activity type: Research Organisations	
Contact the organisation	

Participants

ETHNIKO IDRYMA EREVNON	Greece
STICHTING OAPEN*OPEN ACCESS PUBLISHING IN EUROPEAN NETWORKS	Netherlands
MAX WEBER STIFTUNG DEUTSCHE GEISTESWISSENSCHAFTLICHE INSTITUTE IM AUSLAND	Germany
KNOWLEDGE UNLATCHED CIC	United Kingdom

OPERAS landscape study

Design for Open access Publications in European
research Areas for Social Sciences and Humanities

Project Number: GA 731031

OPERAS-D

WP 2: Developing network and e-infrastructure strategy

Landscape Study on Open Access Publishing

The project has received funding from European Union's Horizon 2020 research and
innovation programme under grant agreement 731031.



In examining all emerging trends in journal and monograph publishing, the report outlines key challenges and potential issues to be addressed by future initiatives. Recently introduced and experimental models (such as scholar-led publishing bodies, and new university presses) share common orientations towards increased participation of researchers in the publishing process and overcome certain deficiencies of the commercial publishing model.

Notwithstanding the importance of such initiatives, as the Report concludes, fragmentation (both in terms of the size and nature of publishers and of their business models) is a key characteristic in the academic publishing landscape. In this context, the main challenge in adopting effective open access publishing practices is to identify and assess current needs and limitations that permeate the academic publishing landscape, in operational as well as communicational terms.

The landscape study confirms that successful research relies primarily on unrestricted access to high quality scientific output and cross-disciplinary, international collaboration. Shared and remotely accessed digital infrastructures constitute an important feature towards the realisation of the European Research Area, and OPERAS aspires to be actively engaged in the implementation of a new mode of science that overcomes fragmentation and enables unrestricted access to high quality scientific output.

Survey on publishers

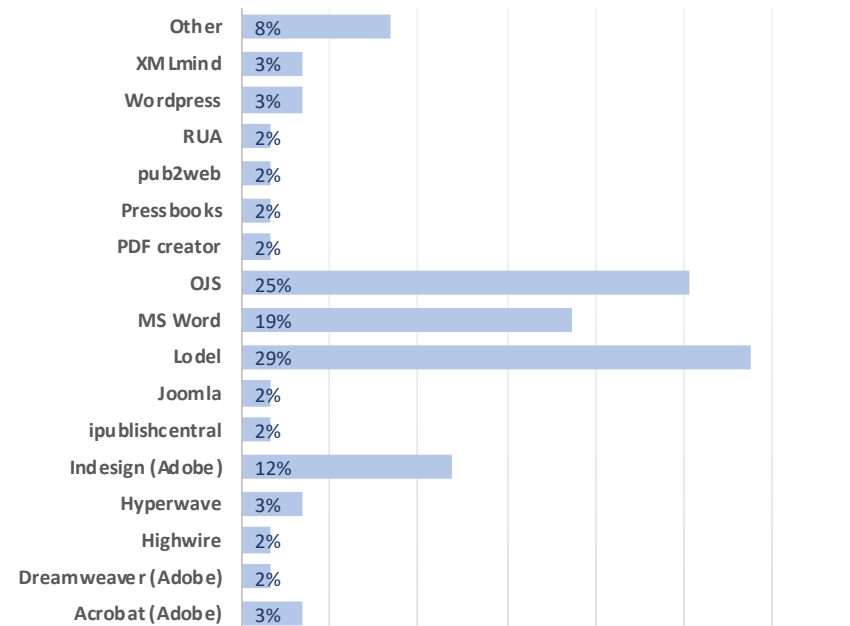


OPERAS Design Study

July 2017

	spring survey	autumn survey	total
Started surveys	79	38	117
Completed surveys	42	17	59

PUBLISHING SOFTWARE



OPERAS partners technical mapping

PARTNER	Huma-Num (Isidore)	EKT	IBL PAN	MWS	Open Edition	OAPEN	OAPEN (DOAB)	Ubiquity Press	UCL press	Univ. Coimbra	University of Turin	Univ. Zadar
DB Size (GB)	1024GB	35GB	Open Edition [60GB]	100GB	60GB	60GB	200MB	270 GB	OAPEN [60GB]	419GB	8GB	78GB
Storage Size (TB)	400TB	50TB	Open Edition [40TB]	1,5TB	40TB	5,5TB	0,7TB	5TB	OAPEN [5,5TB]	25TB	2TB	1,25TB
DBMS	MySQL, MongoDB, AFS, Handle.net, Virtuoso, Exist, BaseX	MySQL	OpenEdition [MySQL]	Zope Object database	MySQL	MySQL, Oracle	MariaDB	MySQL, PostgreSQL	OAPEN [MySQL]	MySQL, PostgreSQL	MySQL	MySQL

OPERAS partners technical mapping

PARTNER	OPENEDITION	Huma-Num (Isidore)	EKT	Ubiquity Press	MWS	Unito	OAPEN	OAPEN (DOAB)	Univ. Coimbra	Univ. Zadar	IBL PAN	UCL press
CPU cores	724	192	72	31	12	12	4	4	6	4	OpenEdition	OAPEN
Servers (nb)	21	8	6	10	1	1	4	4	4	6	OpenEdition	OAPEN
RAM (GB)	3000	1000	1100	115	24	32	32	32	28	8	OpenEdition	OAPEN
Provider	CC IN2P3	CC IN2P3	EKT	Amazon	BSB	Cineca	UvA	SemperTool	Univ. Coimbra	SRCE	OpenEdition	OAPEN

Visibility of OA monographs



The Visibility of Open Access Monographs in a European Context

A report prepared by Knowledge Unlatched Research

30 January 2018

Cameron Neylon,^{1,2} Lucy Montgomery,^{1,2} Alkim Ozaygen,^{1,2} Neil Saunders² and Frances Pinter^{1,2}

1. Centre for Culture and Technology, Curtin University, Kent St, Bentley, Western Australia
2. Knowledge Unlatched Research, United Kingdom

This project received funding from European Union's Horizon 2020 research and innovation programme under grant agreement 731031.

institutions). This means that we clearly need to understand what the usage data is telling us before we have any use for it.

A number of respondents expressed a desire for a “dashboard” or other visualisations that could bring multiple data sources together. The consequent need for data integration and standardisation to achieve this was mentioned in one or two responses but awareness of the challenges of comparison across sources appeared to be limited. There was some evidence of a conflation of visualisation with data integration.

Respondents are small organisations with limited capacity. There is a desire for coordination and shared services, infrastructures, standards. A common thread in the responses was that the publishers and platforms who are engaged in Open Access scholarly book publishing are relatively small. This is both a challenge and an opportunity. They have limited capacity to develop internal processes and systems are looking for shared services and platforms to assist in developing usage data capabilities.

It would be of great help if we could have a main service from where we could manage all the information related to statistical usage data.

[To engage more effectively with usage data we would like a]...consortium agreement with Google on how to gather and access usage data.

We would like to see a usage aggregation service that consolidates usage data from different hosting partners into one standardised report in an automated way. In turn, this should translate into a usage dashboard that can be embedded into platforms and allows customers to use different filters to analyse usage by publisher, region, etc.

[one of our biggest challenges is...optimizing workflow, how to do more work with small resources.

What emerges overall is a picture in which platforms and publishers are implementing tools and approaches locally and using what they are provided with to some degree. There is generally a good technical awareness of the tools being deployed, but less apparent awareness of data curation and quality assurance issues.

Many of the challenges arise from issues of data integration and standardisation. Small, and even medium-sized, players have limited capacity to engage with detailed standards or technical development. Equally there are limitations on what capacity a small organisation can provide to investigate the meaning and context of the data being generated. The majority of data use seemed to be in pro-

KU Research findings

- ***The metadata held and managed by OPERAS partners is inconsistent and variable in quality***
- ***The visibility of OPERAS partner books in catalogues varies by publisher.***
- ***Evidence can be obtained that books relevant to specific regions gain interest and attention in that region***
- ***The variable quality of book metadata creates challenges in analysing visibility consistently***
- ***The variable quality of book metadata creates challenges for downstream data aggregation and analysis providers***

OPERAS proposition:
a distributed infrastructure for open
scholarly communication in SSH





SITUATION

THE SITUATION

before OPERAS



Scientific community lost control to commercial publishers



Fragmentation of the publishing community, mostly university led

Early Open Science adopters in SSH



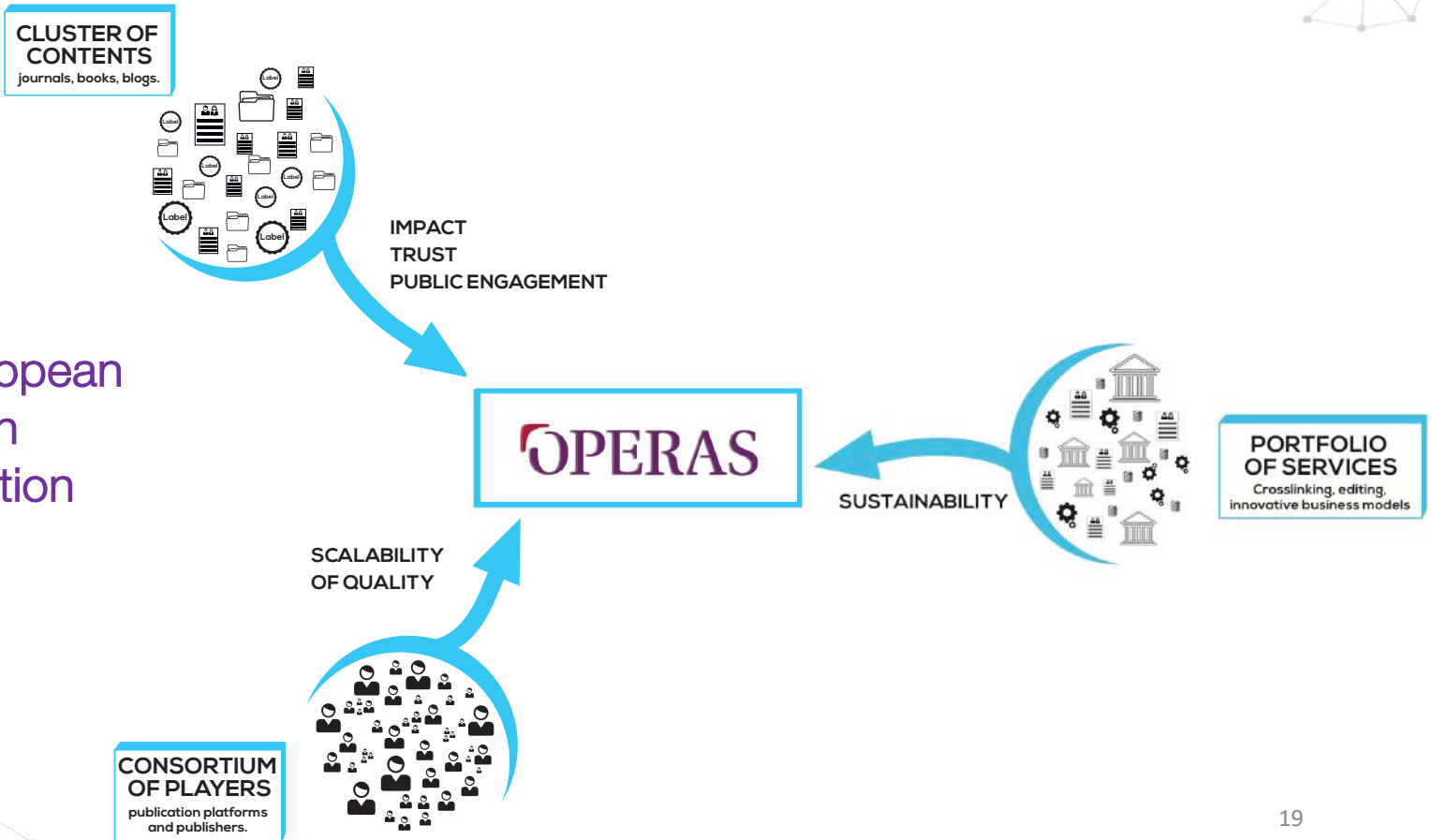
Reclaim control by uniting researchers, libraries and publishers in a common effort



OPERAS MAIN MISSION

To provide a pan-European infrastructure for open scholarly communication

Integration of the long tail into Open Science

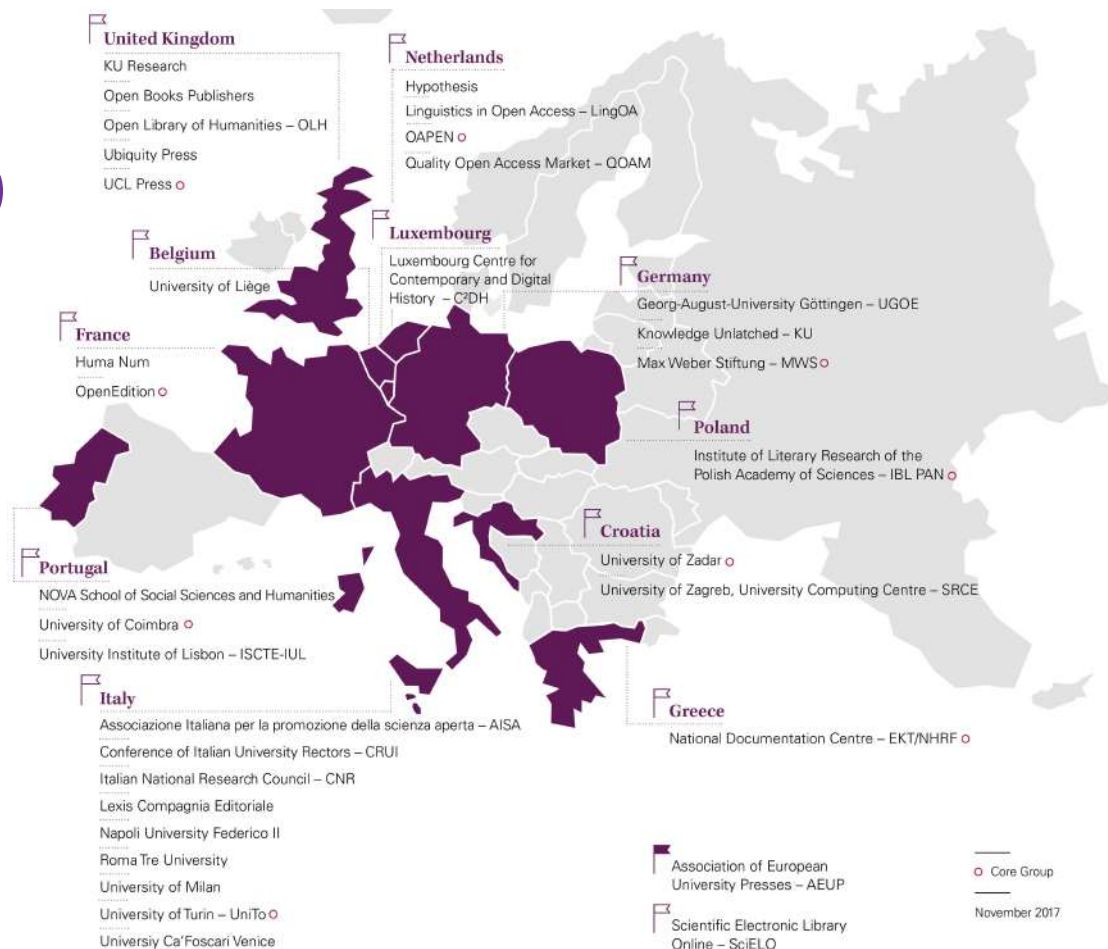


OPERAS PARTNERS

OPERAS is led by OpenEdition (France)

Consortium

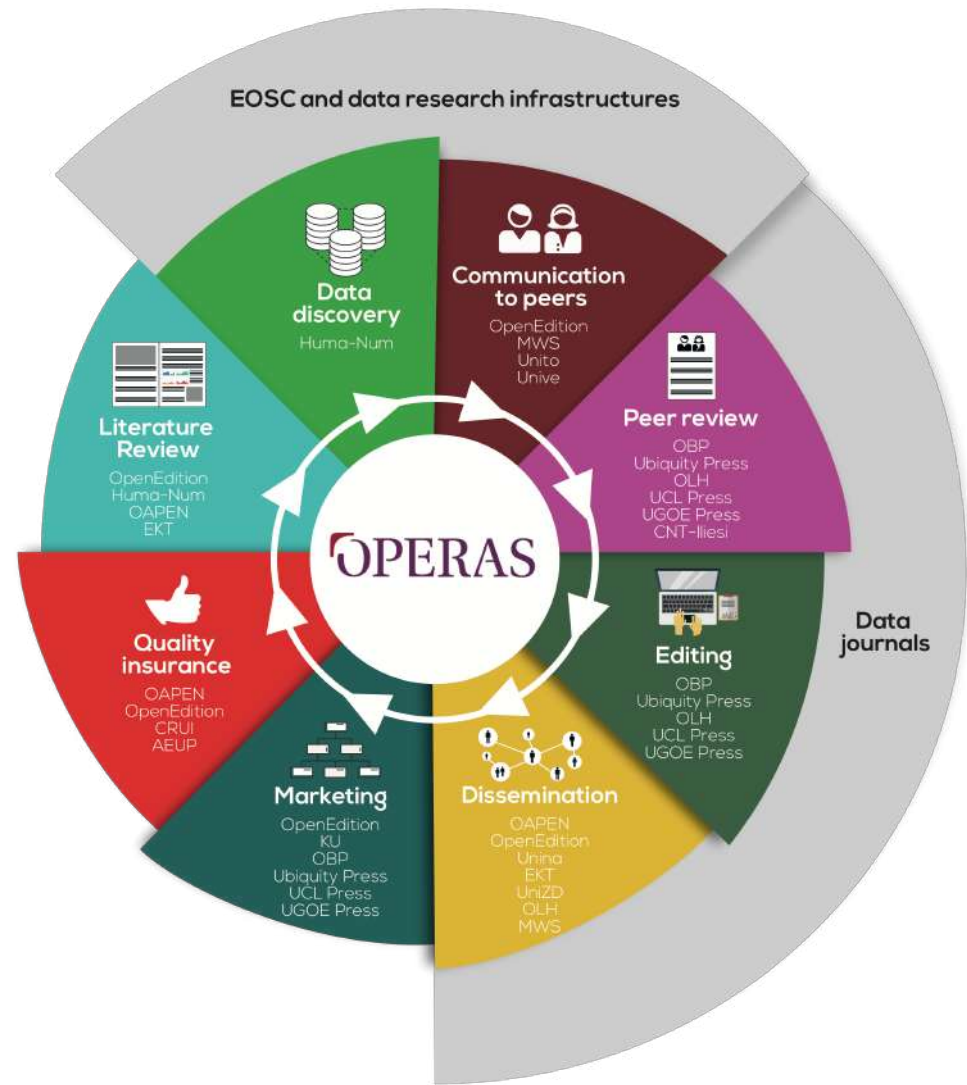
- 35** Partners
- 11** Countries
- 9** Core group Members
- 2 H2020** Projects



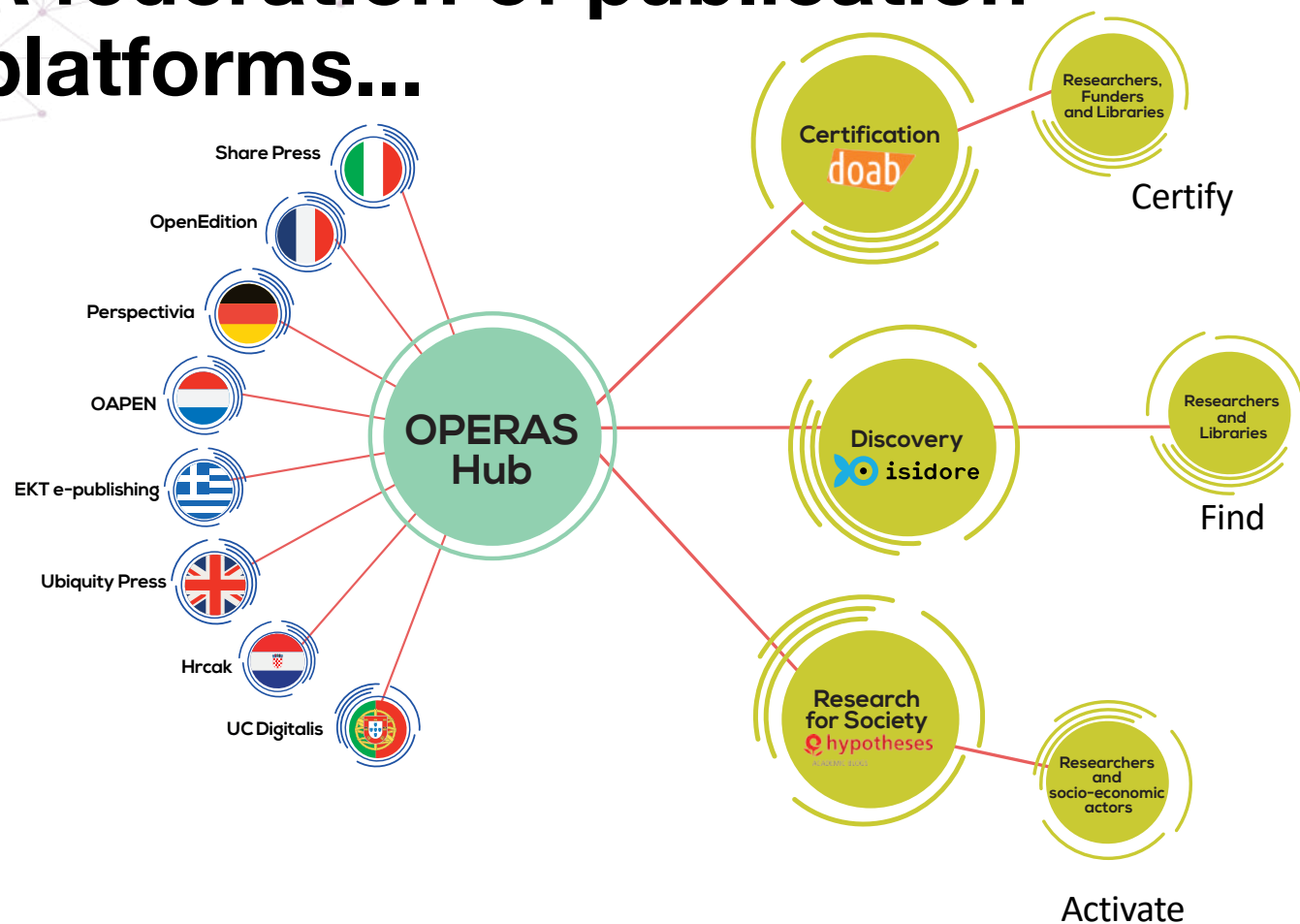
OPERAS-D

HIRMEOS
 High Integration of Research Monographs
 in the European Open Science Infrastructure

OPERAS members serve the researcher's needs all along the research cycle

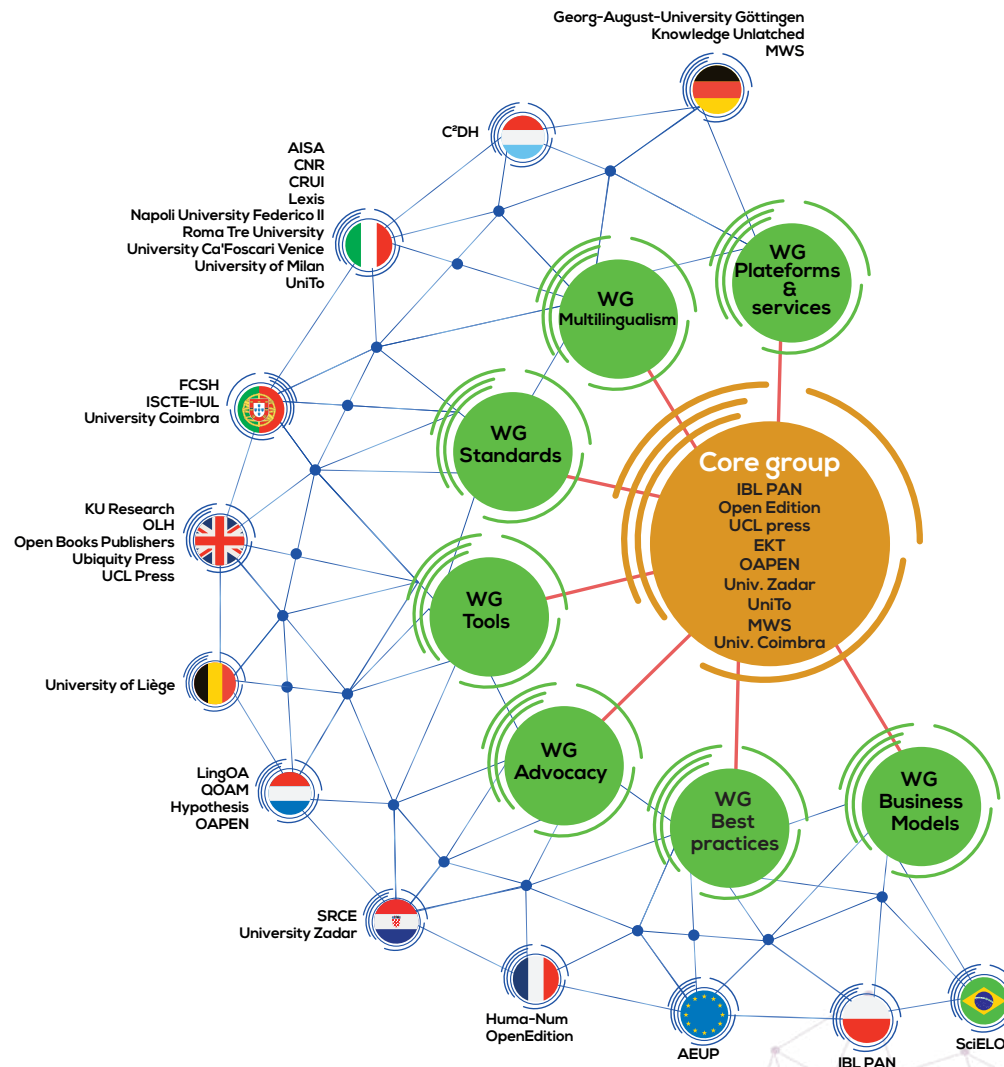


A federation of publication platforms...



... to deliver
Open Science services...

Coordinated by the Core Group



OPERAS Working Groups

1. **Advocacy:** MWS (contact point), AISA, UGOE, IBL PAN, KU Research, OpenEdition, University of Turin, The Arctic University of Norway
2. **Publishing Tools:** OpenEdition (contact point), Hypothesis, IBL PAN, C²DH, Roma Tre University, Stockholm University Press, Ubiquity Press, University of Turin, University of Milan
3. **Standards:** EKT (contact point), OAPEN, OpenEdition, University of Milan
4. **Business Models:** UCL Press (contact point), AEUP, IBL PAN, KU, KU Research, Lexis, OLH, UC Digitalis
5. **Best Practices:** OAPEN (contact point), AEUP, Hypothesis, LingOA, OpenEdition, OLH, QOAM, Lexis, Stockholm University Press, Ubiquity Press, University of Milan, University of Zadar
6. **Multilingualism:** UC Digitalis (contact point), UGOE, Huma-Num, EKT, ISCTE-IUL
7. **Platforms and Services:** OAPEN (contact point), OpenEdition (contact point), Huma-Num, LingOA, Open Books Publishers, QOAM, University of Zadar

Operas white papers and conference

Advocacy White Paper

File Edit View Insert Format Tools Add-ons Help See new changes

100% Normal text Arial 28

2. Introduction: SSH and Open Science

Andrea, Aysa

SSH and OS are today inextricably linked with each other. OS practices are the next logical step for SSH, and the needs and insights of SSH are important for the development of OS.

This bond is not an accidental development of the SSH: their becoming open is the coherent fulfilment of the modern idea of knowledge as a process grounded on the public use of reason and confrontation with the widest possible audience.² Although the transition of SSH to OS has still to overcome many barriers,³ the fact that nowadays scholarly investigations in SSH can be conducted with the support of digital tools makes this transformation inevitable.⁴ The digitization process is the catalyst of the progressive opening of the SSH, mainly for two reasons. Firstly, new digital publishing formats allow a faster, broader and more efficient dissemination of scholarly outputs; secondly, more indirectly, new tools, e.g. such as data and text mining services, require the availability of texts published with licenses that do not hinder the use of such tools.

The variety of tools and services currently available for research and publishing requires a mediation between two essential aspects of the intellectual work, namely, on the one hand, the individual, autonomous and self-responsible activity of the single scholar and, on the other hand, **both the cooperation between the scholars themselves and between scholars and institutions** providing tools and services for publishing. The scholarly primitives of SSH⁵, i.e. the basic activities underlying each research process, can only be carried out if supported by **publishers** who are able to provide the most advanced tools for organizing knowledge, editing, annotating, disseminating, etc. More than in the other academic disciplines, in the Humanities and Social Sciences, *The publishing process is, all the more so in the era of digital humanities, an essential part of the research process itself.*

These different needs of **individuality**—autonomy and cooperation in the research process so as the development of digital tools enabling a more effective realization of the scholarly primitives

² Although this idea matures in the age of the European Enlightenment, there is a deep historical connection between the current demand for free access to scientific research products and the development of the concept of intellectual property until the beginning of the eighteenth century. Cf. John Willinsky (2018): *The Intellectual Properties of Learning*, Chicago (Chicago University Press).

³ Specifically for the situation of humanities s. the standard work Eve, M. (2014). *Open Access and the Humanities: Contexts, Controversies and the Future*. Cambridge: Cambridge University Press. doi:10.1017/CBO9781316181012

⁴ Cf. Filippatrick, Kathleen. *Planned Obsolescence: Publishing, Technology, and the Future of the Academy*. NYU Press, 2011. JSTOR, www.jstor.org/stable/4139626. Presenting digitization as a solution for the financial problems of research institutions

⁵ how about rewriting as "...and, on the other hand, **cooperation** – both between the scholars themselves and

Aysa Ekangor 1:06 PM Yesterday **Revoke**

I suggest to rewrite this as: "The becoming open of the SSH is not an accidental development, but a coherent fulfilment..."

I think you had it like this to begin with.

Elisabeth Heinsmann 4:59 PM Yesterday **Revoke**

I agree

Andrea Bertino 12:02 AM Today **Revoke**

ok

Aysa Ekangor 1:11 PM Yesterday **Revoke**

I took the liberty of moving this paragraph down. I would like to have a small introductory part in the first paragraph.

Andrea Bertino 12:02 AM Today **Revoke**

ok

Aysa Ekangor 2:03 PM Yesterday **Revoke**

SHARE

CONFERENCE

31 May - 1 June 2018
ATHENS

Open Scholarly Communication in Europe:
Addressing the Coordination Challenge

National Hellenic Research Foundation
48 Vas. Konstantinou Av., GR-11635, Athens

May 31st 2018

09.00-9.30 **Registration**

9.30-10.00 **Welcome**
Evi Sachini, Director of National Documentation Centre, EKT
Pierre Mounier, Coordinator of OPERAS, Deputy Director of OpenEdition

10.00-10.30 **Keynote: Open Science in Europe**
Jean Claude Burgelman, Head of Unit, Open Data Policies and Science Cloud, European Commission

10.30-11.00 **Designing an Infrastructure for Open Scholarly Communication: Operas-D Findings**
Pierre Mounier, Coordinator of OPERAS, Deputy Director of OpenEdition

11.00-11.30 **Coffee Break**

11.30-13.00 **Scholarly E-Infrastructures Across Europe. Models of Coordination**
MODERATOR: **Matthew Dovey**, Head of e-Infrastructure Strategy, Jisc
Coordination through the market:
Elco Ferwerda (OAPEN), **Graham Stone** (Jisc)
Coordination through government: **Pierre Mounier** (OpenEdition),
Michael Kaiser (MWS), **Maciej Maryl** (IBL PAN), **Marina Angelaki** (EKT),
Coordination through community: **Elena Giglio** (University of Turin),
Deifim Leao (Coimbra University), **Jadranka Stojanovski** (University of Zadar)

13.00-14.00 **Lunch**

14.00-15.30 **Poster Session: What is at stake?**
Presentation of OPERAS working groups' White Papers

15.30-16.00 **Coffee Break**

HIRMEOS: a proof of concept for
OPERAS collaboration



- 5 OA books platforms :
 - Oapen
 - OpenEdition Books
 - Göttingen University Press
 - Ubiquity Press
 - Ekt e-publishing
- Other participating : OBP (UK),
Perspectiva (De), Sirio (It)
- 5 services implemented
 - Identifiers : DOI, ORCID, Funding Registry
 - Named entity recognition : places, names, periods
 - Certification : DOAB PR types
 - Annotation : hypothes.is
 - Metrics : OA metrics, alternative metrics

HIRMEOS in a nutshell

HIRMEOS Standards & Services

standards & technologies

- DOI, ORCID, FundRef
- NERD
- DOAB PR Types
- Hypothesis
- Counter
- Crossref, Google Scholar
- Altmetrics

platforms

- OpenEdition (Lodel)
- OAPEN (Arno)
- Göttingen UP (DSpace)
- EKT publishing (OMP)
- ubiquity press (OMP)

services

- Identification
- Entity Recognition
- Certification
- Annotation
- Usage metrics

aggregators

- OpenAIRE
- DOAB
- library catalogues etc.

open science infrastructure EOSC

HIRMEOS takes place within the larger network OPERAS (open access in the European research area through scholarly communication) that joins more than 20 partners to build up a distributed research infrastructure for the Humanities and Social Sciences. The Project is run by nine European partners committed to innovative scholarly communication and is based upon five Open Access books publishing platforms giving access to more than 8000 scholarly books. HIRMEOS is funded within the European Union's Horizon 2020 research and innovation programme aiming at user-driven e-infrastructure innovation.




Funded by the Horizon 2020 Framework Programme of the European Union



July 2017



High Integration of Research Monographs in the European Open-Science Infrastructure

Access is fundamental to notable scholarship

RELATED PROJECTS






HIRMEOS PARTNERS & PLATFORMS













Stay updated about HIRMEOS activities and subscribe to our newsletter.

www.hirmeos.eu

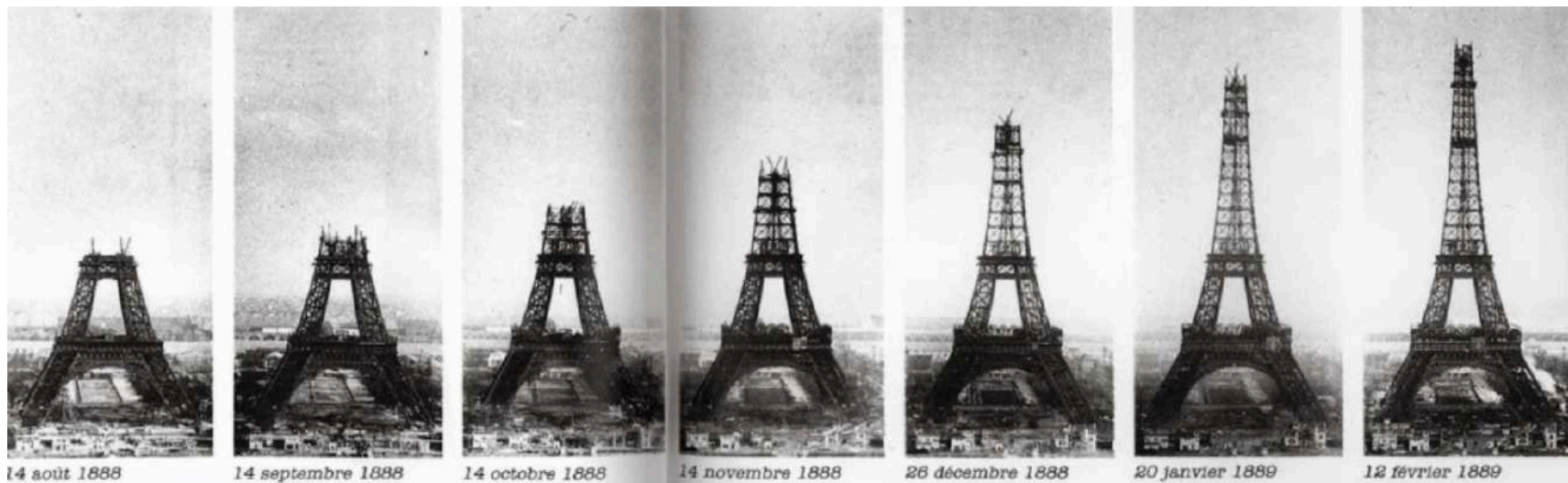




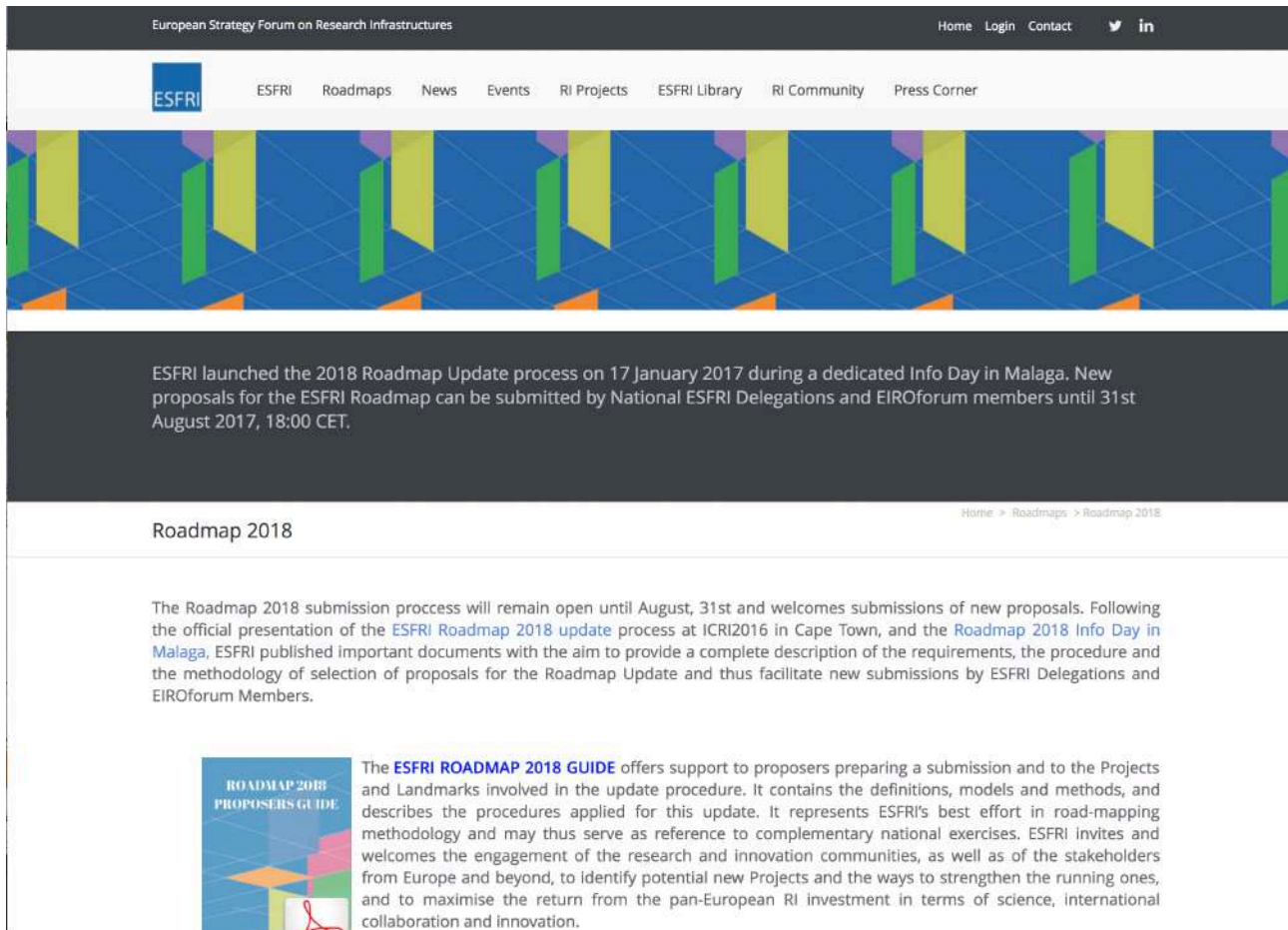


<http://www.hirmeos.eu/animation-video/>

(Conclusion): to be continued...



On the road to ESFRI...



European Strategy Forum on Research Infrastructures

Home Login Contact

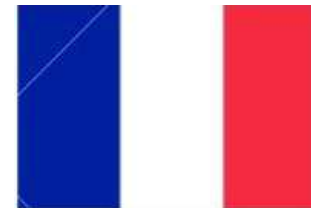
ESFRI ESFRI Roadmaps News Events RI Projects ESFRI Library RI Community Press Corner

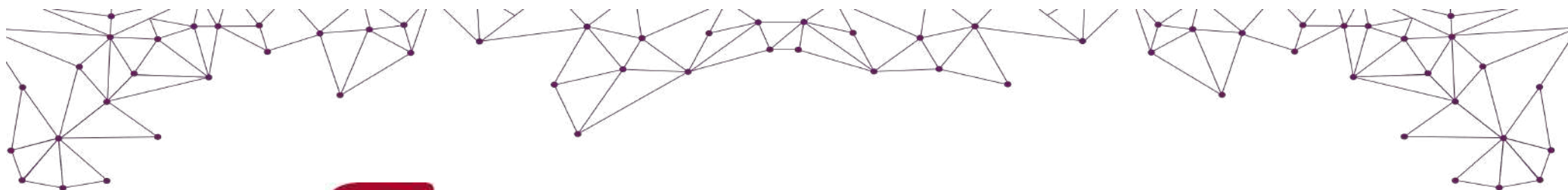
ESFRI launched the 2018 Roadmap Update process on 17 January 2017 during a dedicated Info Day in Malaga. New proposals for the ESFRI Roadmap can be submitted by National ESFRI Delegations and EIROforum members until 31st August 2017, 18:00 CET.

Roadmap 2018

The Roadmap 2018 submission process will remain open until August, 31st and welcomes submissions of new proposals. Following the official presentation of the [ESFRI Roadmap 2018 update](#) process at ICRI2016 in Cape Town, and the [Roadmap 2018 Info Day in Malaga](#), ESFRI published important documents with the aim to provide a complete description of the requirements, the procedure and the methodology of selection of proposals for the Roadmap Update and thus facilitate new submissions by ESFRI Delegations and EIROforum Members.

The **ESFRI ROADMAP 2018 GUIDE** offers support to proposers preparing a submission and to the Projects and Landmarks involved in the update procedure. It contains the definitions, models and methods, and describes the procedures applied for this update. It represents ESFRI's best effort in road-mapping methodology and may thus serve as reference to complementary national exercises. ESFRI invites and welcomes the engagement of the research and innovation communities, as well as of the stakeholders from Europe and beyond, to identify potential new Projects and the ways to strengthen the running ones, and to maximise the return from the pan-European RI investment in terms of science, international collaboration and innovation.





OPERAS

open access in the european research
area through scholarly communication

———— **THANK YOU** ————

