# Practising Open Science: OpenAIRE's Perspective:

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**Eugenia Kypriotis et al (Athena Research Center)** 



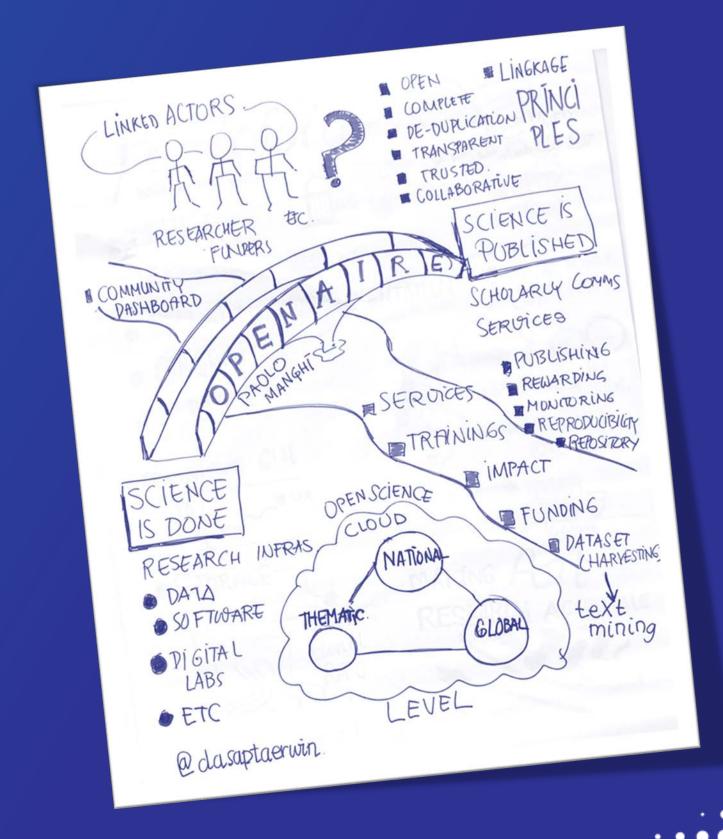






### OpenAIRE

Bridging the worlds where science is performed and science is published



### Services for all actors

Monitor

Funders, institutions, RIs, initiatives, 3<sup>rd</sup> parties







Accelerate

Content providers, **Research Infras** 



Schole % plorer









Researchers, scientists











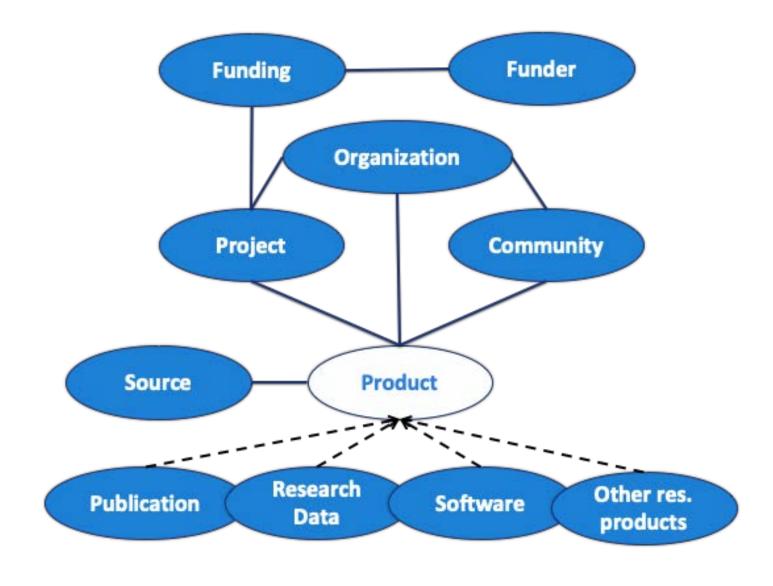
Support







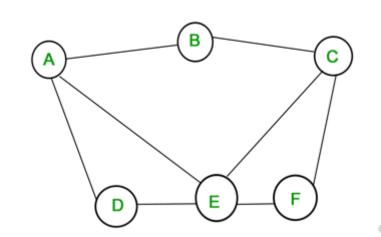
An open metadata research graph of interlinked scientific products, with access rights information, linked to funding information and research communities

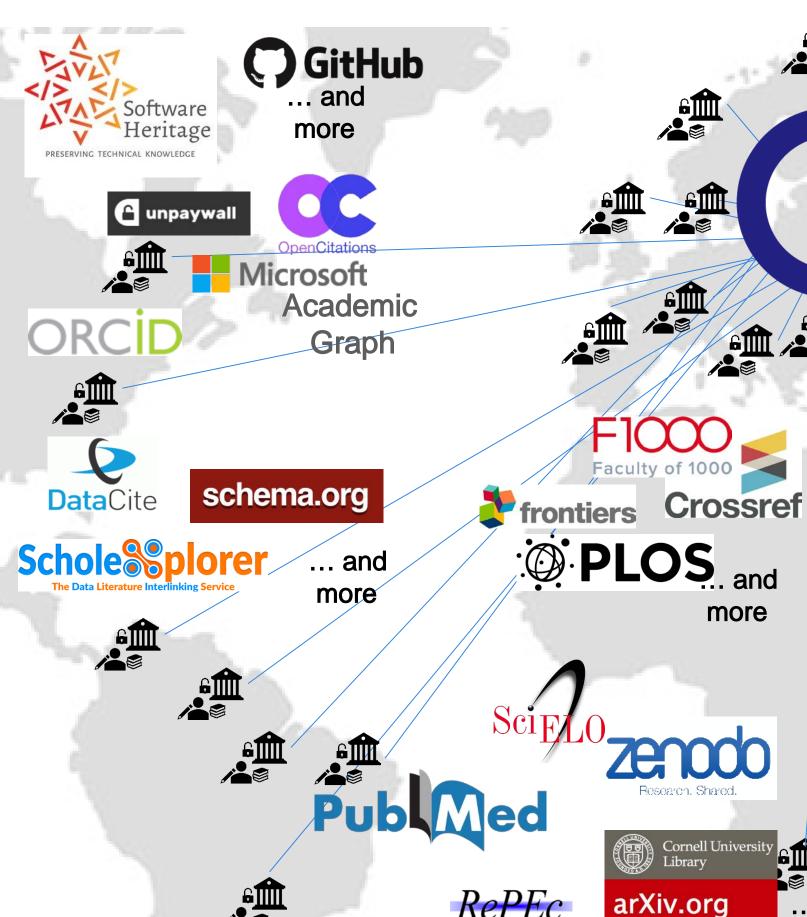


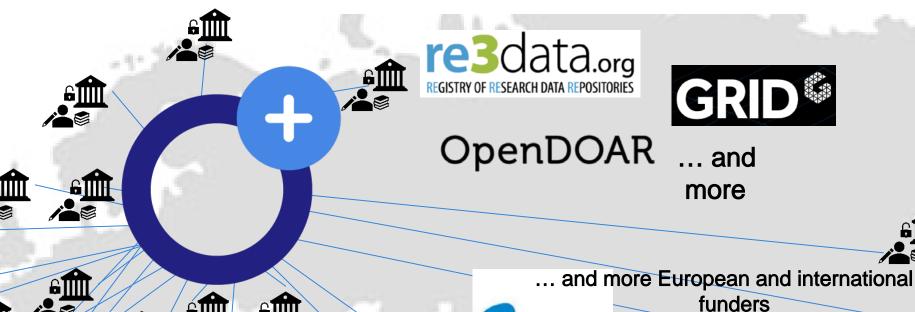
Graph: model for the representation of information

OpenAIRE uses it to represent **objects** in the scholarly communication domain and the **relationships** that exist among them.

Edges of the graph are annotated with a label that specifies the **semantics** of the relationships between two objects, each represented as a node in the graph.







OPEN ACCESS
JOURNALS

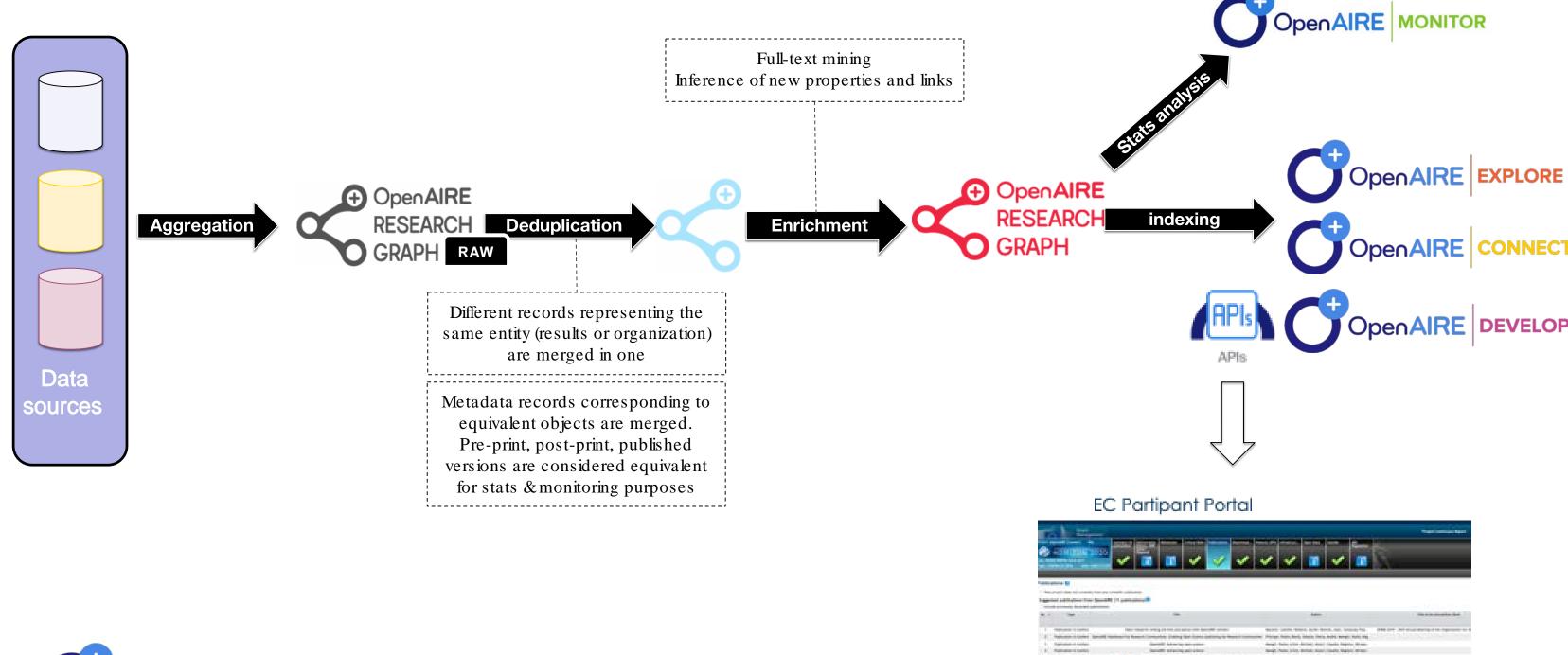
... and

mora

Collecting metadata, links, and full-texts from more than 12K sources worldwide to materialize graph where entities of the research life cycle are linked to each other



# OpenAIRE Research Graph the supply chain

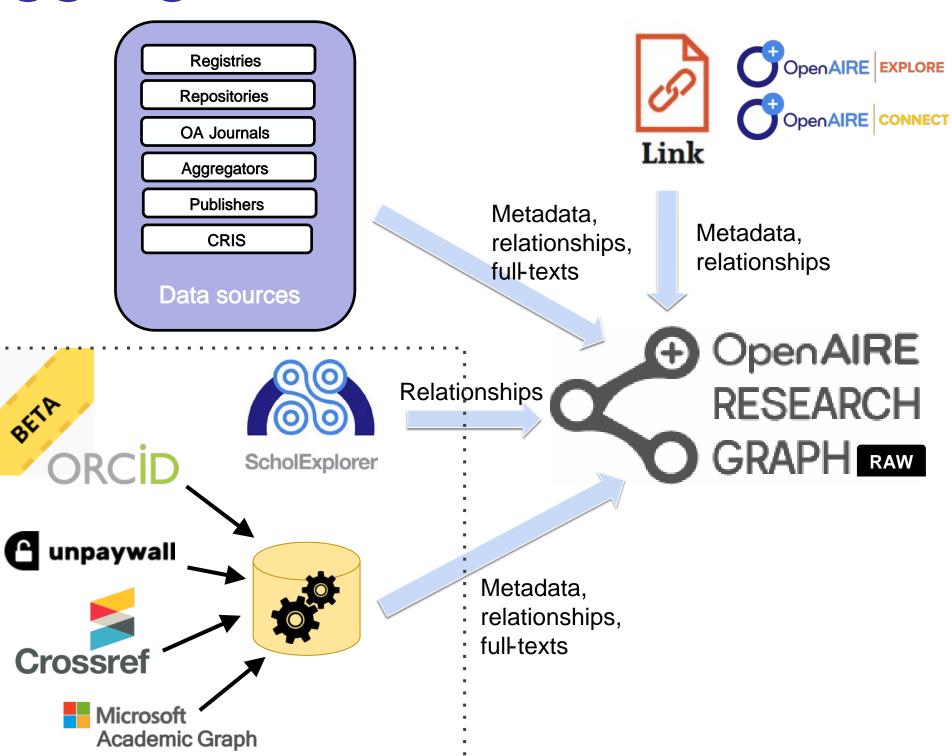






### Aggregated data sources

450Mi harvested records 500Mi bi-lateral links 13Mi+ full-texts







### Registries: data sources offering lists of entities

authoritative

Registries of researchers



Registries of organizations





and other funders

Registries of projects



ACADEMY OF FINLAND









and other funders

Registries of data sources







journal lists from publishers







## OpenAIRE Provide



Services for content providers (repository and CRIS managers, journal publishers)

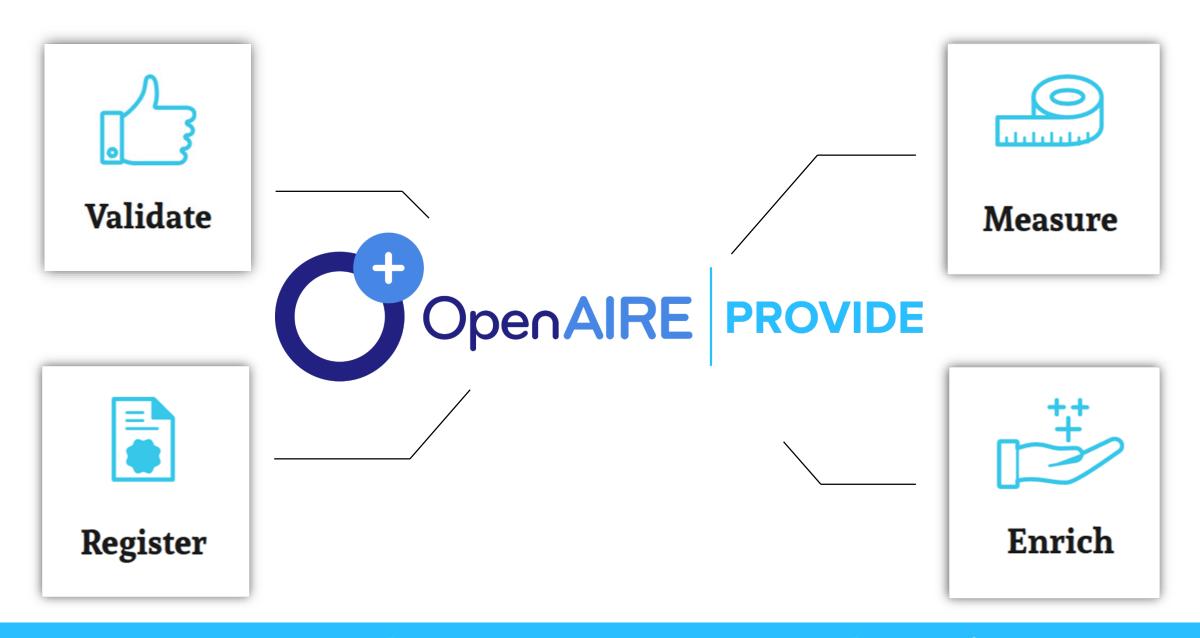
one stop shop for all OpenAIRE content providers







### **OpenAIRE Content Provider Dashboard**



One-stop-shop web service where content providers (repositories, data archives, journals, aggregators, CRIS systems) interact with OpenAIRE. It provides the front-end access to many of OpenAIRE's backend services.



## Improve your metadata. Get more connections

OA Broker service offers a wealth of information on scholarly communication data. Find out what interests you and subscribe to enrich your records.

E	Enrich Your Content - Browse Events				
	More			Missing	
	ADDITIONAL METADATA INFORMATION THAT MAY ENRICH OR SUPPLEMENT UNIVERSIDADE DO MINHO: REPOSITORIUM CONTENT	# OF EVENTS		MISSING METADATA INFORMATION THAT MAY ENRICH OR COMPLETE UNIVERSIDADE DO MINHO: REPOSITORIUM CONTENT	# OF EVENTS

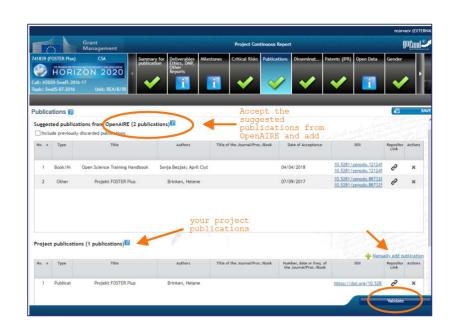


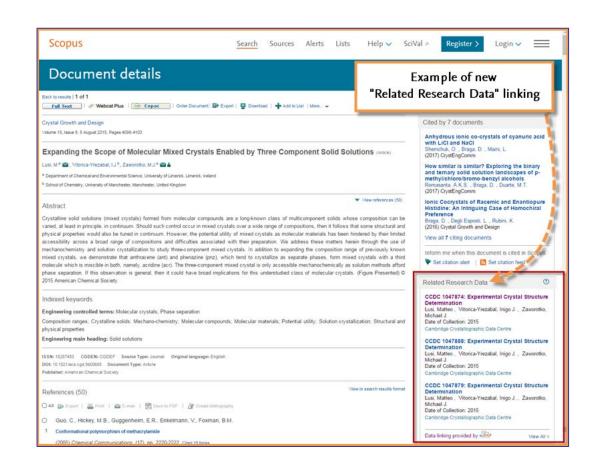
### Integration with third -party services

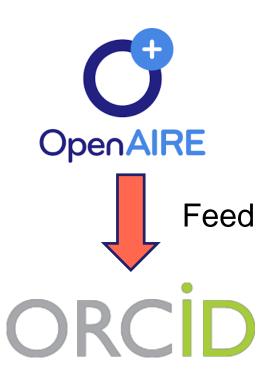
**EC SYGMA** 

Scopus

**ORCID** 











### **Open APIs and Dumps**

Supporting third-parties at building added-value services





#### OpenAIRE Guidelines

OpenAIRE Guidelines to expose your metadata in order to integrate with OpenAIRE infrastructure. https://guidelines.openaire.eu/en/latest/



### **Content Acquisition policy**

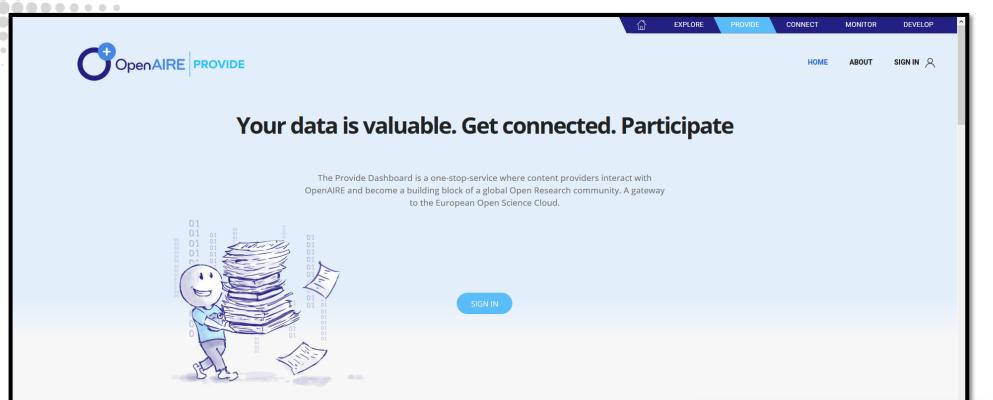
Literature, Datasets, Software, other research products
OpenAIRE accepts the metadata records of all scientific products
whose structure respect the model and semantics as expressed by
the OpenAIRE guidelines.

Open Access and non-Open Access material will be included and links to other products will be resolved where this is possible.

<a href="https://www.openaire.eu/data-aquisition-policy">https://www.openaire.eu/data-aquisition-policy</a>





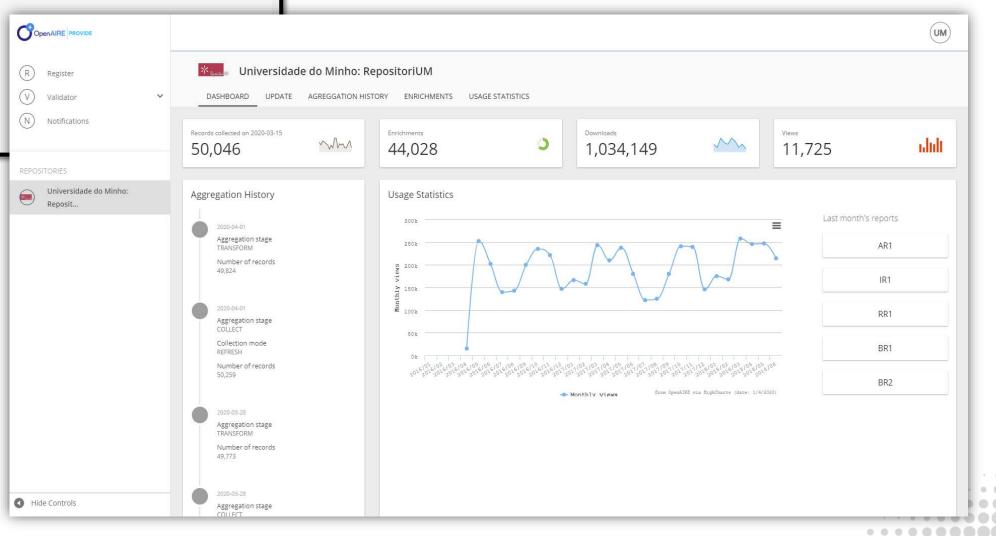


NEW VERSION
Closer to users' needs – Provide
functionalities in a more friendly interaction.

#### PROVIDE Dashboard brings all your data together

Get front-end access to many of OpenAIRE's backend services

New version released in May https://provide.openaire.eu



## OpenAIRE PROVIDE product management closer to the user needs

#### **SERVICE DASHBOARD**

- ✓ Brand new User Interface of the Dashboard
- ✓ <u>Users' needs (functionalities in</u> <u>a more friendly interaction)</u>

#### **USER FEEDBACK**

- ✓ <u>Users really helling us to improve.</u>
- ✓ User Board (10 members)
- ✓ <u>User tests (UI/UX tests and</u> <u>assessment survey)</u>

#### **BUILDING COMMUNITY**

- ✓ Monthly community calls
- ✓ Monthly newsletter

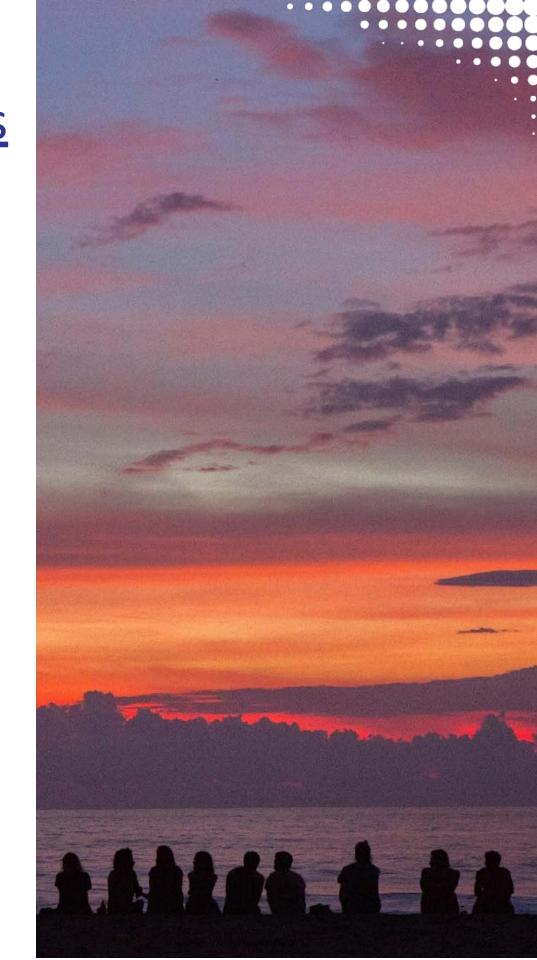
#### **PUBLIC ROADMAP**

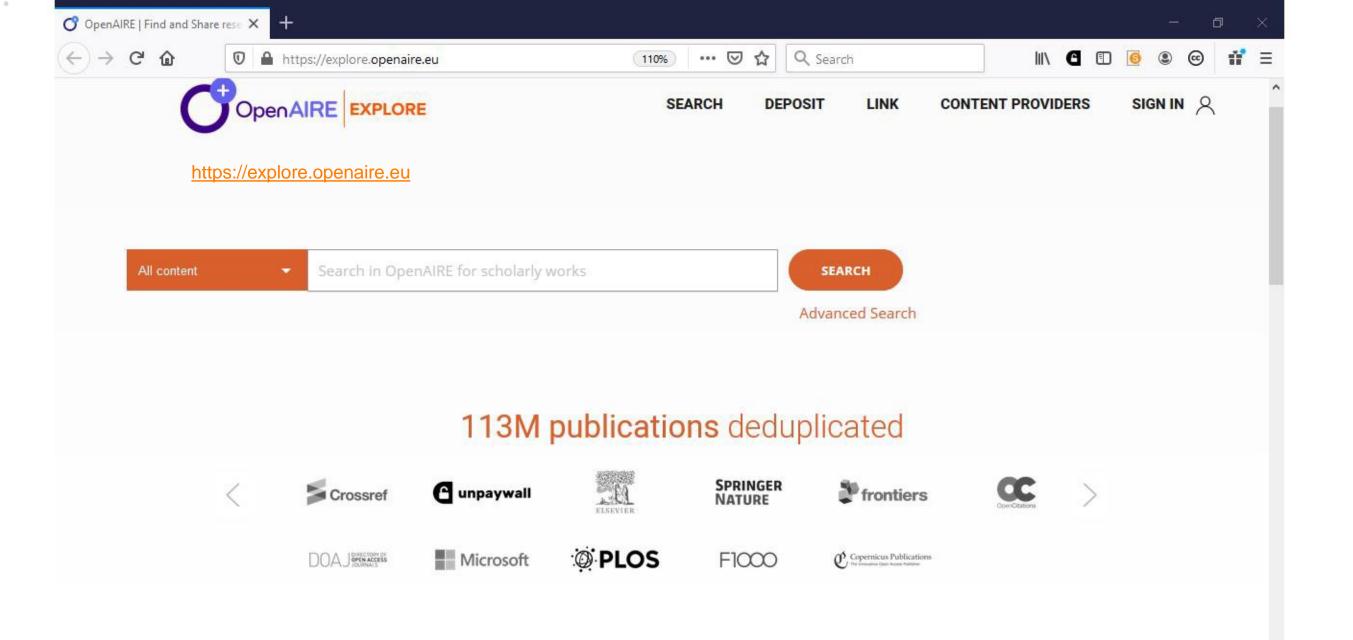
✓ <u>Trello provide roadmap</u>
<a href="https://www.mereusers.can.also.give-feedback">where users can also give feedback</a>





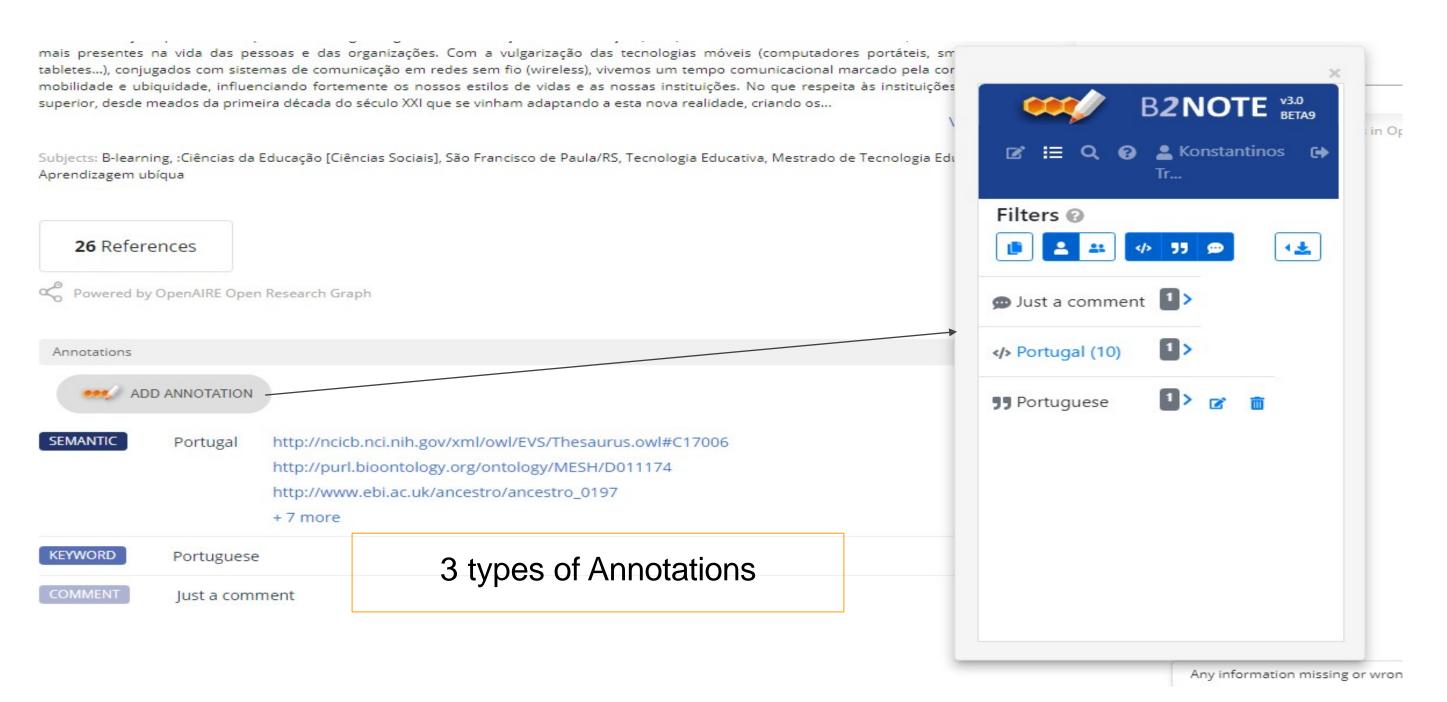
A gateway to the European Open Science Cloud...







### Annotations - B2Note (EUDAT)



### Landing pages further improvements

Publication . Article . 2012 . Embargo end date: 4 Sep 2014 . Under curation

### Changes in Anterior Chamber Depth after Combined Phacovitrectomy

The incidences of both cataract and vitreoretinal pathologies increase with advancing age

OPEN ACCESS RESTRICTED ACCESS ENGLISH FRENCH

Published: 4 Aug 2012 Journal: PeerJ, volume 3 (issn: 2167-8359, eissn: 2167-8359)

Publisher: PeerJ Inc. ( Copyright policy )



Publication Summary References

20,034

Supplementary Research

20,034

Similar Research

20,034

External Databases

20,034

Abstract

International audience It is commonly believed that vision is impaired during saccadic eye movements. However, here we report that some visual stimuli are clearly visible during saccades, and trigger a constriction of the eye's pupil. Participants viewed sinusoid gratings that changed polarity 150 times per second (every 6.67 ms). At this rate of flicker, the gratings were perceived as homogeneous surfaces while participants fixated. However, the flickering gratings

Funded by

European Commision | ACTPUP, European Commision | OPENAIRE, FWF| Turbulence in the Edge of Magnetised Plasmas: Emergent Structures and Transport, EC| EUROfusion

### **Open Citations Addition**

Publication . Article . 2012 . Embargo end date: 4 Sep 2014 . Under curation

### Changes in Anterior Chamber Depth after Combined Phacovitrectomy

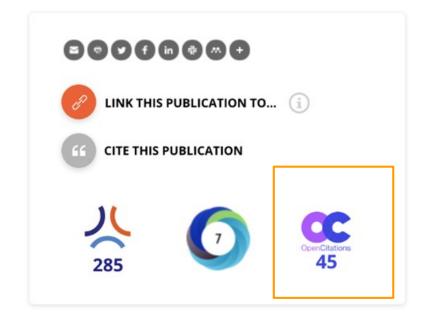
The incidences of both cataract and vitreoretinal pathologies increase with advancing age

D Sebastiaan Mathot, jean-Baptiste Melmi, D Eric Caster

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**Databases** 

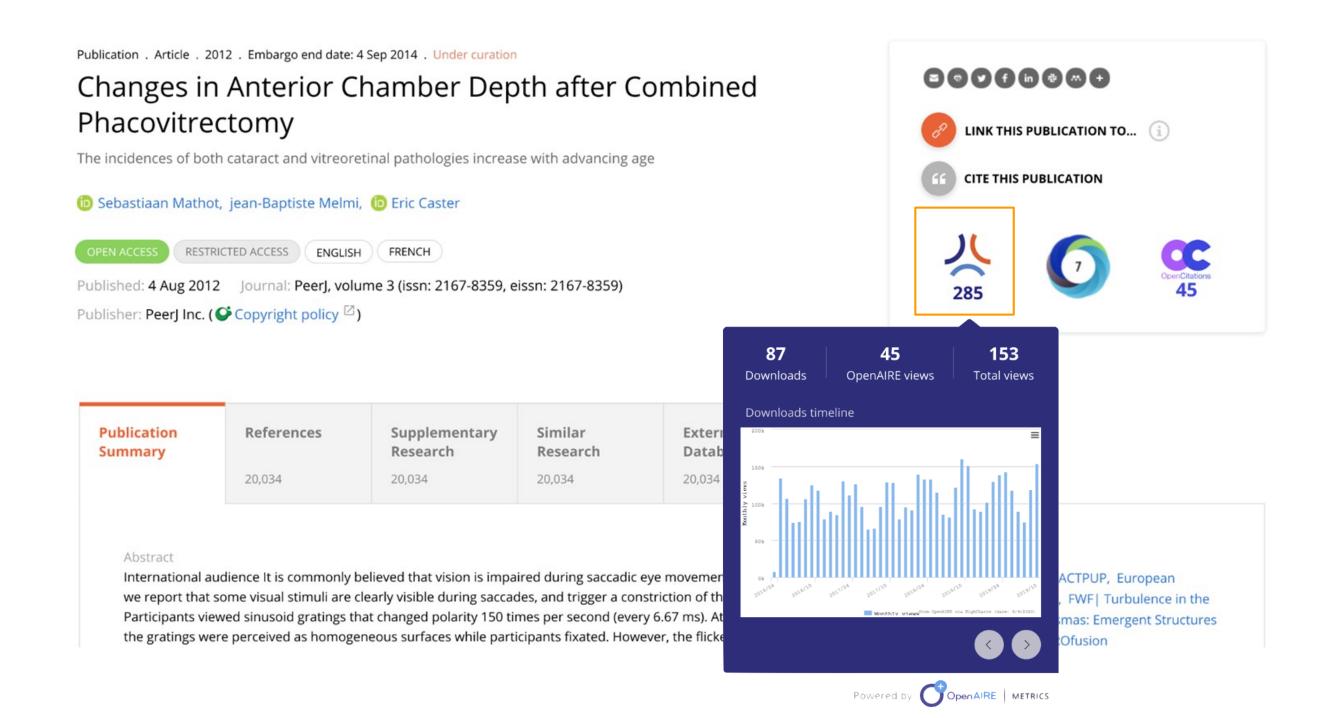
Abstract

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### Metrics visualization improvement





Build an Open Research Gateway for your Community

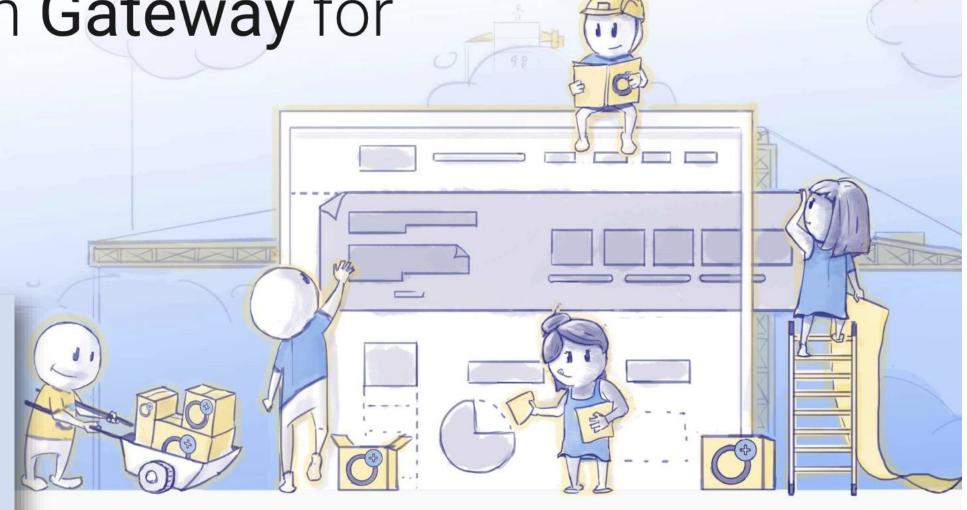
Turn Open Science into practice

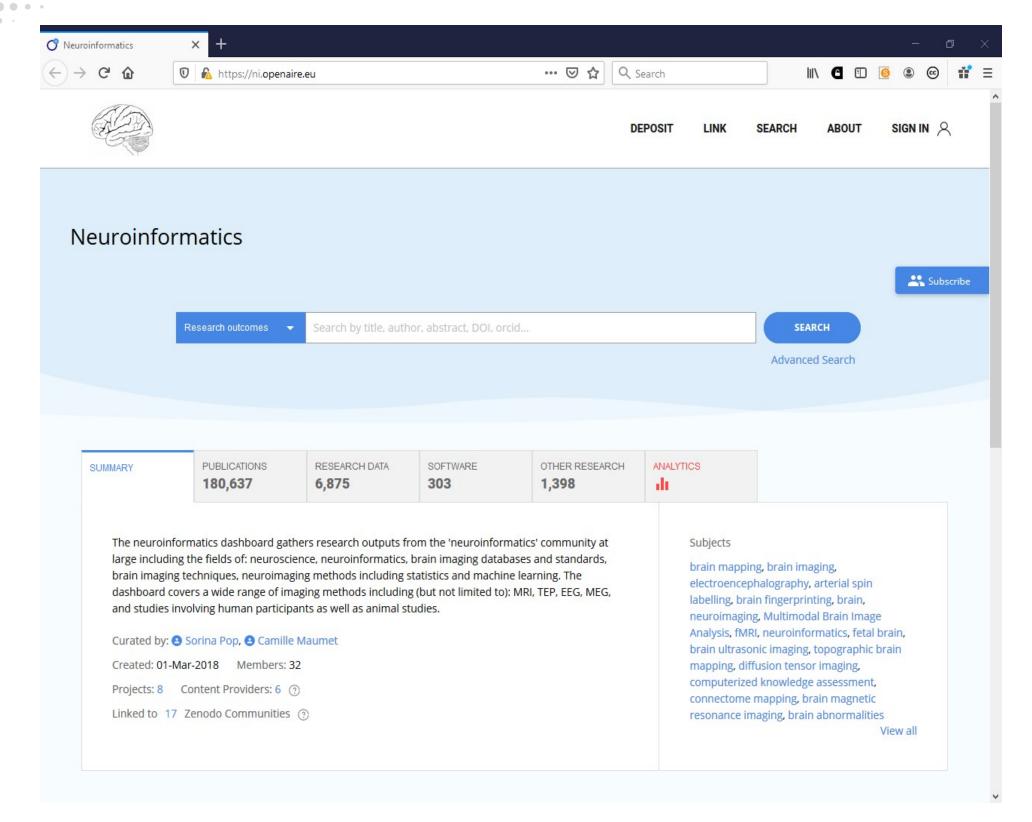
Share and link your research results. Across organizations, across borders. Customized to your needs.

LEARN HOW









https://ni.openaire.eu

- Discovering and navigating through a community-oriented research graph, obtained as a view over the OpenAIRE Research Graph
- Accessing statistics about research trends and open science practices of the community
- Publishing (deposit metadata and files to get a citable DOI) their scientific products within the community boundaries of the OpenAIRE Research Graph via Zenodo.

#### COVID- 19: Update Horizon 2020 guidelines

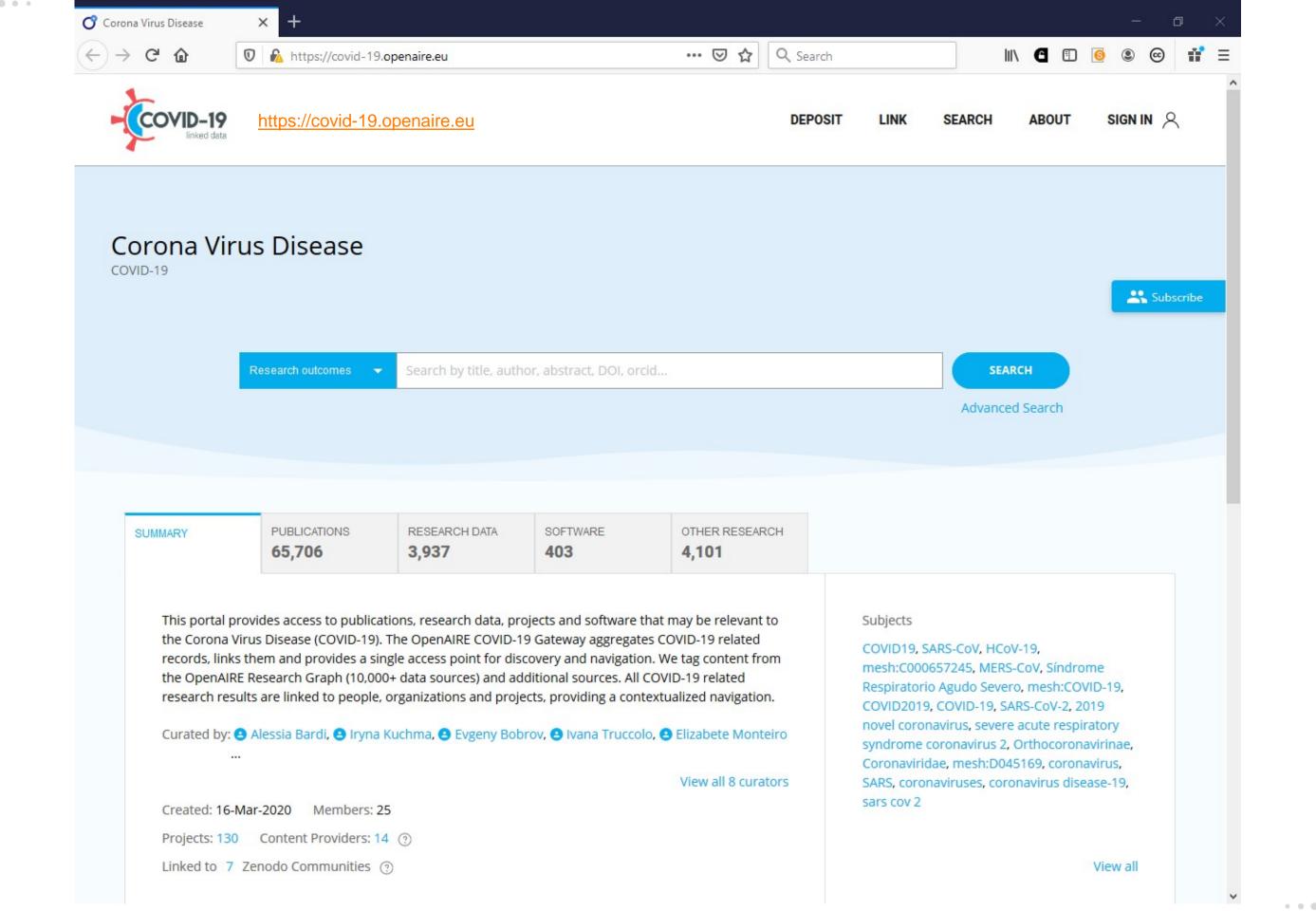
In response to the global COVID-19 crisis, the European Commission has issued an <u>update</u> of the existing open science guidelines for Horizon 2020 in April.

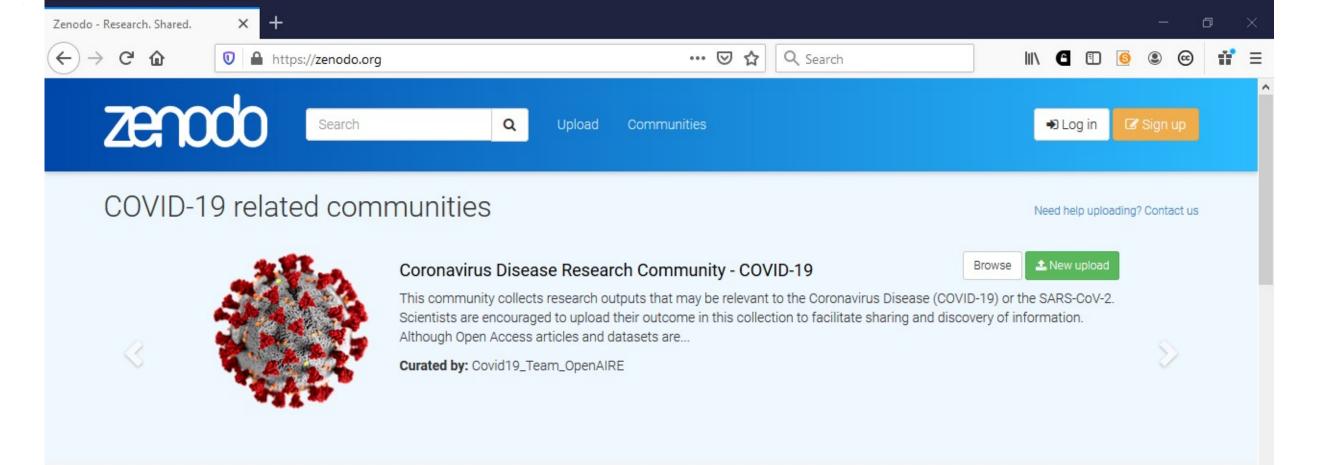
#### **Updated guidelines**

the EC strongly encourages beneficiaries to go beyond what is legally required from them in their Grant Agreement (GA) and to provide full and immediate open access to all COVID-19 related research output they might produce. The EC invites researchers to:

- provide immediate open access (without embargo) via repositories to COVID-19 related research outputs;
- make research findings available via preprint servers before journal publication, or via platforms that make publications
  openly accessible before peer-review;
- include **clear statements** regarding the availability of underlying data;
- use liberal open licenses such as CC BY 4.0, CC0 public domain dedication or equivalent;
- apply **FAIR** practices in research data management and to register your DMP as a non-restricted, public deliverable that is openly accessible, unless there are reasons to restrict it.

Full guidelines: <a href="https://ec.europa.eu/research/participants/data/ref/h2020/other/hi/oa-pilot/h2020-guidelines-oa-covid-19\_en.pdf">https://ec.europa.eu/research/participants/data/ref/h2020/other/hi/oa-pilot/h2020-guidelines-oa-covid-19\_en.pdf</a>





#### Featured uploads related to COVID-19

August 12, 2020 (v1.0) Dataset Open Access

#### OpenAIRE Covid-19 publications, datasets, software and projects metadata.

Bardi, Alessia; Kuchma, Iryna; Brobov, Evgeny; Truccolo, Ivana; Monteiro, Elizabete; Casalegno, Carlotta; Clary, Erin; Romanowski, Andrew; Pavone, Gina; Artini, Michele; (b) Atzori, Claudio; (b) Bäcker, Amelie; (b) Baglioni, Miriam; (b) Czerniak, Andreas; De Bonis, Michele; Dimitropoulos, Harry; Foufoulas, Ioannis; Horst, Marek; Iatropoulou, Katerina; Jacewicz, Przemyslaw; (b) Kokogiannaki, Argiro; (b) La Bruzzo, Sandro; Lazzeri, Emma; Löhden, Aenne; (b) Manghi, Paolo; (b) Mannocci, Andrea; Manola, Natalia; Ottonello, Enrico; Shirrwagen, Jochen

This dump provides access to the metadata records of

publications, research data, software and projects that may be relevant to the Corona Virus Disease (COVID-19) fight. The dump contains records...

August 12, 2020 (v8-10-2020) Software Open Access

#### New York Times Coronavirus (Covid-19) Data in the United States

Albert Sun; Tiff Fehr; Archie Tse; Rachel; Wilson Andrews

This is an archived fork of the New York Times Covid-19 data public repo, created August 10th, 2020. It is purely for archiving and citing purposes for academic publication. All work, credit, and...

Uploaded on August 27, 2020

Want your dataset featured? Contact us

August 13, 2020 (vv1.0) Software Open Access

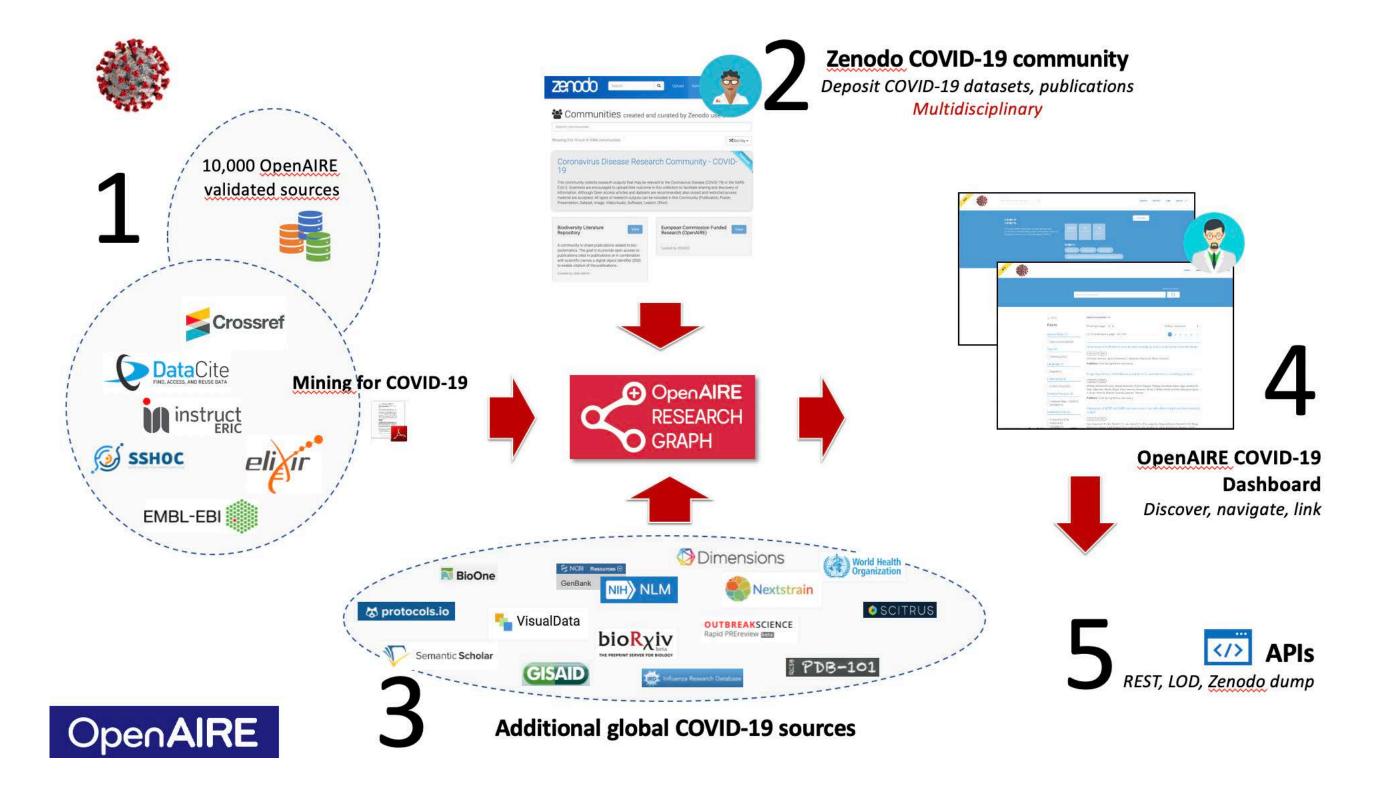
#### tsleng93/SocialBubble: SocialBubble

tsleng93; Stefan Flasche

This release contains the underlying code and extended data for the paper "The effectiveness of social bubbles as part of a COVID-19 lockdown exit strategy, a modelling study" by Leng et al.

Uploaded on August 27, 2020

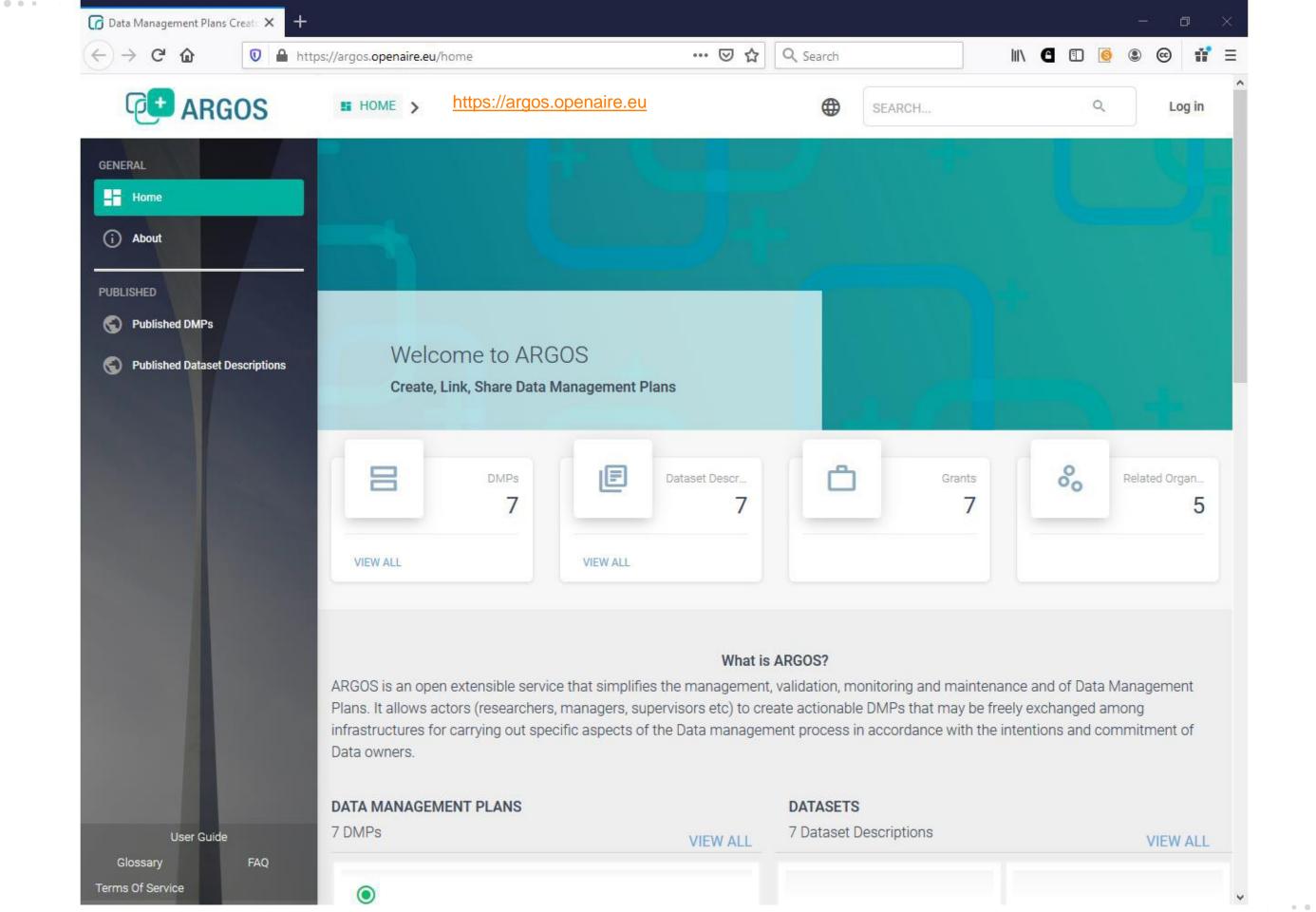
Uploaded on August 27, 2020

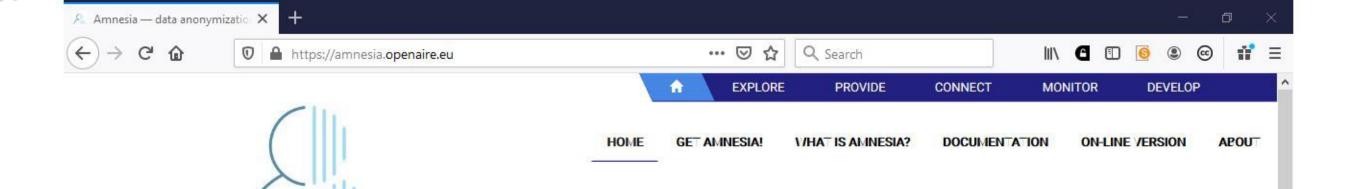




#### https://www.openaire.eu/guides







### **Amnesia**

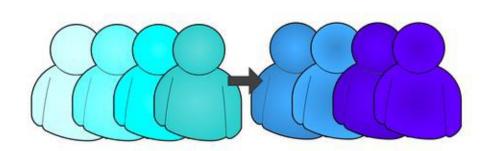
amnesia

Amnesia is a data anonymization tool, that allows to remove identifying information from data. Amnesia not only removes direct identifiers like names, SSNs etc but also transforms secondary identifiers like birth date and zip code so that individuals cannot be identified in the data. Amnesia supports k-anonymity and  $k^m$ -anonymity.

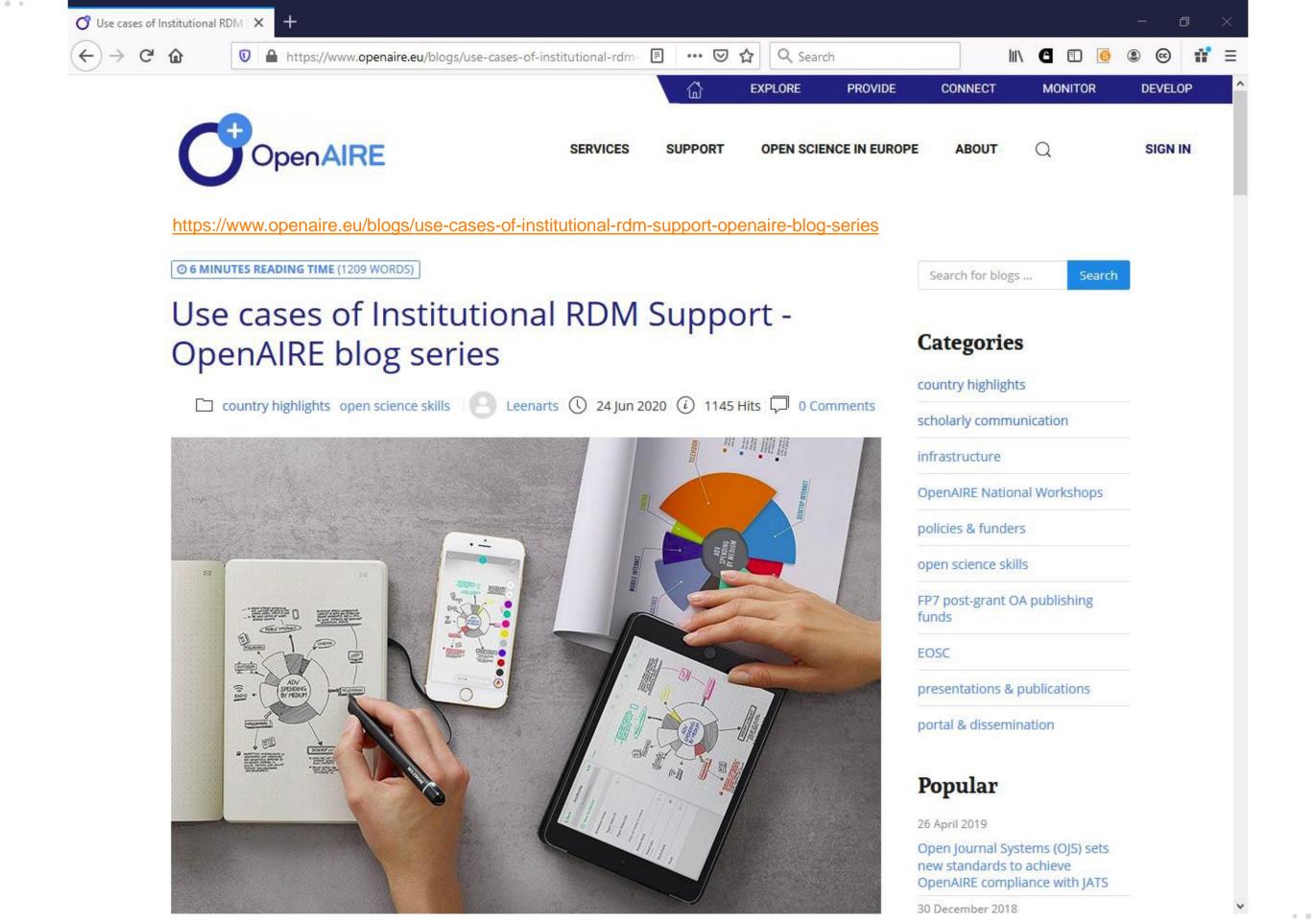
version: 1.2.1 (release date: 11/07/2020)

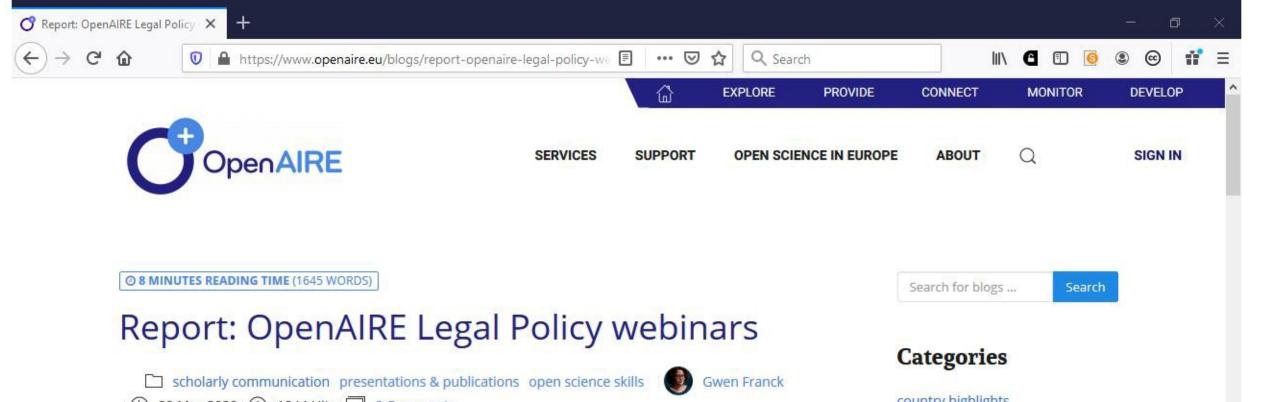
Follow us on twitter





https://amnesia.openaire.eu







This blog is an adaptation of a bloggest first published on the CDEATA (LIV Congright and Creative Economy

country highlights

scholarly communication

infrastructure

OpenAIRE National Workshops

policies & funders

open science skills

FP7 post-grant OA publishing funds

EOSC

presentations & publications

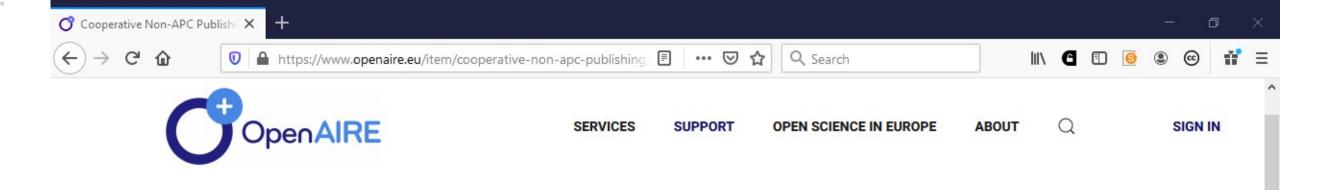
portal & dissemination

#### Popular

26 April 2019

Open Journal Systems (OJS) sets new standards to achieve OpenAIRE compliance with JATS

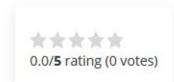
30 December 2018



## Cooperative Non-APC Publishing Models

OA to publications | open access | policy

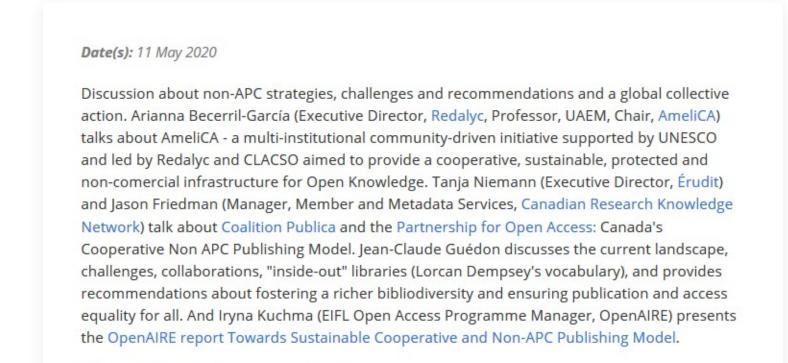
🔼 SHARE 🔣 🍱 🖂 ...)

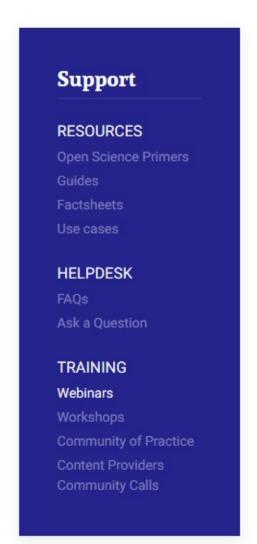


#### **Upcoming Webinar**

No events

#### Joint AmeliCA/Canadian Research Knowledge Network/Coalition Publica/OpenAIRE webinar





# Thank you!

andre.hoffmann@uzh.ch

