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ISTITUTO NAZIONALE DI OTTICA

CONSIGLIO NAZIONALE DELLE RICERCHE

Allies of light

Innovazione digitale per monitorare e valorizzare la ricerca nelle scienze del patrimonio: le piattaforme OpenAIRE Connect e Monitor sull'Heritage Science

Laura Benassi

GenOA week, CNR Area della Ricerca di Genova, 7.11.2024

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per migliorare la gestione e la visibilità della ricerca nel settore delle scienze del patrimonio

3. OpenAIRE Connect

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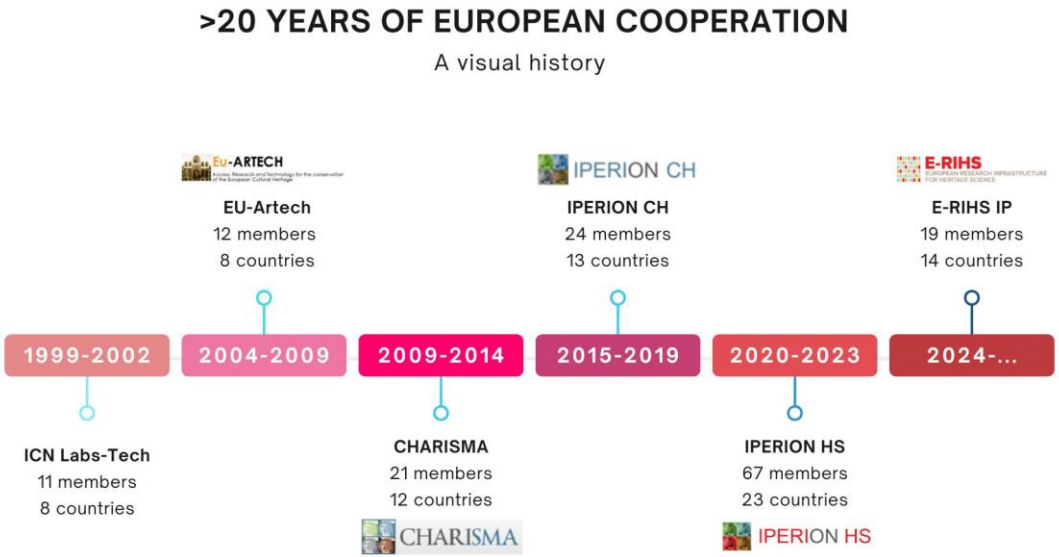
4. OpenAIRE Monitor

Le dashboard IPERION HS e Heritage Science

1. Introduzione: i progetti infrastrutturali nelle scienze del patrimonio

Progetti infrastrutturali nel settore delle scienze del patrimonio



IPERION HS

IPERION HS

Type of action

H2020-INFRAIA-2019-1

Partners

23 countries, **67** members

Duration

48 months (2020 -2024)

EU Contribution

€ 6.162.711,12

Website

www.iperionhs.eu

IPERION HS is a project funded by the European Commission under Grant Agreement n.871034

- **Goal:** promoting heritage science and reach new communities
- It is an **Integrating Activity** for a distributed pan-European research infrastructure
- It offers a **unified scientific approach** to the most advanced European instruments for the analysis, interpretation, preservation, documentation and management of heritage objects.
- **3 platforms** (scientific archives, fixed laboratories and mobile laboratories) to offer **cross-border access** to an impressively wide range of high-level scientific instruments, methodologies, data and tools
- **HS Academy**

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E-RIHS Implementation Phase (IP)

E-RIHS
EUROPEAN RESEARCH INFRASTRUCTURE FOR HERITAGE SCIENCE

Type of action

HORIZON-INFRA-2021-DEV-02

Partners

14 countries, **19** members

Duration

39 months (2022 -2024)

EU Contribution

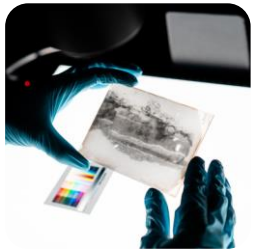
€ 1.698.316,25

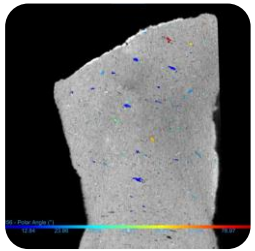
Website

www.e-rihs.eu

Funded by
the European Union

- The mission is to **deliver integrated access to interdisciplinary expertise, data and cutting-edge technologies.**
- It will integrate world-leading European facilities into an organisation with a clear identity and a strong cohesive role within the global heritage science community.
- The E-RIHS IP project will bring together representatives of national nodes of countries that expressed their willingness to **support the establishment of the European Research Infrastructure Consortium (ERIC).**





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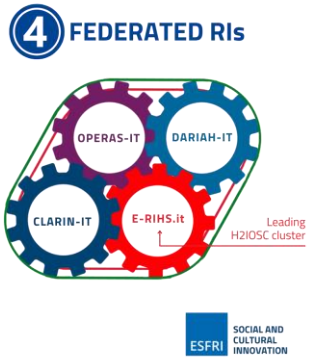
E-RIHS

E-RIHS diventerà un’entità legale stabile nella forma di un ERIC (European Research Infrastructure Consortium) alla fine del 2024 con sede a Firenze, alla Manifattura Tabacchi.

H2IOSC

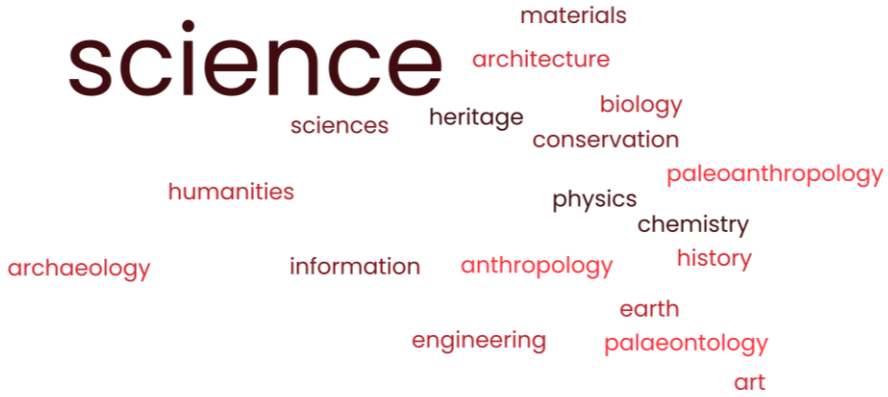
- Il nodo Italiano di **E-RIHS** ha ricevuto finanziamenti PNRR per consolidare le sue risorse digitali e accelerare la trasformazione digitale nelle scienze umane e nei vari settori del patrimonio culturale. Sta partecipando al Progetto H2IOSC, insieme ad altre infrastrutture di ricerca: DARIAH, CLARIN, OPERAS

H2IOSC
Humanities and cultural Heritage Italian Open Science Cloud



H2IOSC Project - Humanities and cultural Heritage Italian Open Science Cloud funded by the European Union – NextGenerationEU – NRRP M4C2 - Project code IR0000029 - CUP B63C22000730005.
https://www.h2iosc.cnr.it/

Scienze del patrimonio: punti di forza e criticità



- La comunità che opera nel settore delle scienze del patrimonio è una comunità fortemente multidisciplinare: ricca e complessa…
- Mancano un'ontologia comune e vocabolari condivisi: I ricercatori parlano linguaggi diversi e usano metodologie diverse; uno stesso termine può indicare cose diverse nell'ambito delle varie discipline
- I ricercatori pubblicano su riviste di settore diverse
- …e depositano i dati della ricerca in repository diversi (istituzionali, di settore, etc…)

2. Soluzioni digitali per migliorare la gestione e la visibilità della ricerca nel settore delle scienze del patrimonio

Strumenti digitali per un’infrastruttura di ricerca FAIR

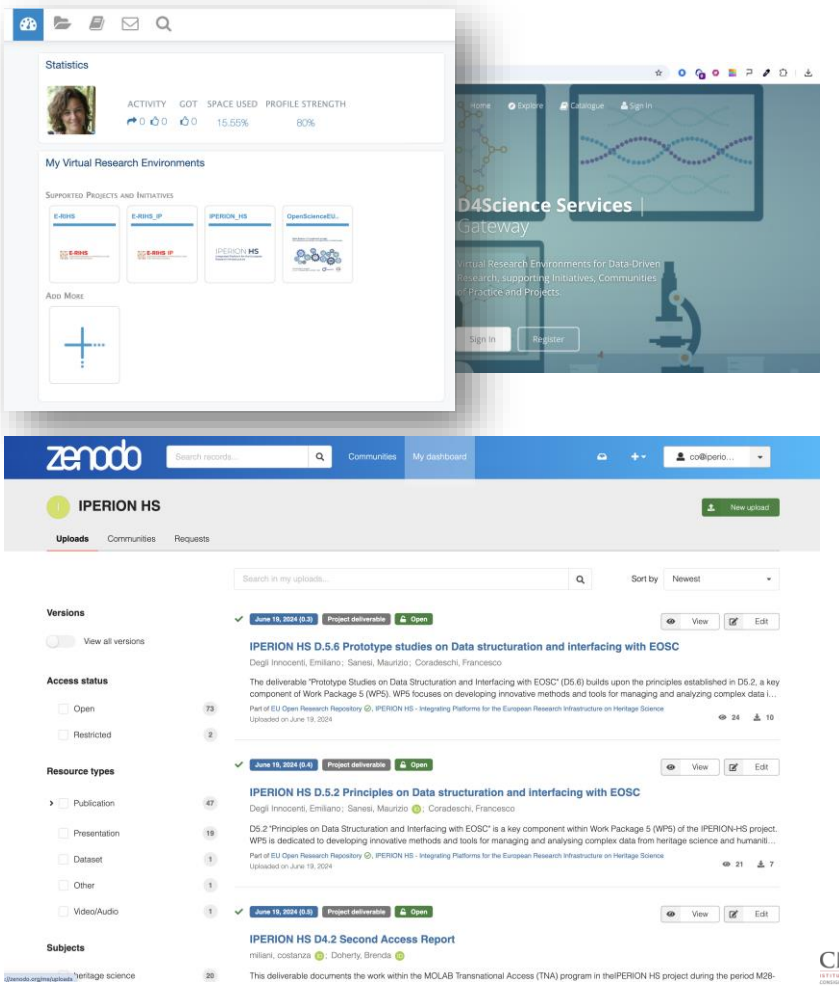
D4science – VRE di progetto ad accesso riservato per archiviare documenti, reports, datasets, etc…

https://www.d4science.org/

Zenodo – repository per pubblicare in maniera FAIR deliverables, reports, video, altri prodotti della ricerca….

https://zenodo.org/communities/871034/

https://zenodo.org/communities/e-rihs/



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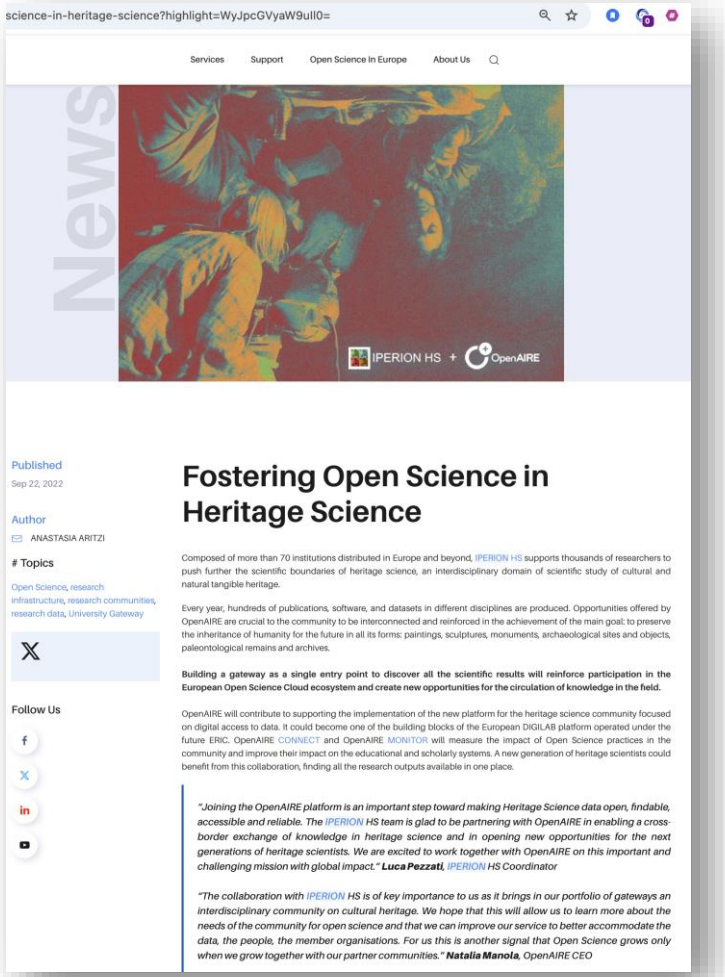
OpenAIRE

Nel 2022 OpenAIRE e IPERION HS hanno firmato un Memorandum of Understanding.

Obiettivi:

- facilitare la ricercabilità dei prodotti della ricerca nel settore delle scienze del patrimonio
- monitorare l'impatto del progetto IPERION HS nel settore della ricerca delle scienze del patrimonio
- valutare le sue pratiche Open Science.



3. OpenAIRE Connect: I due gateway IPERION HS e Heritage Science

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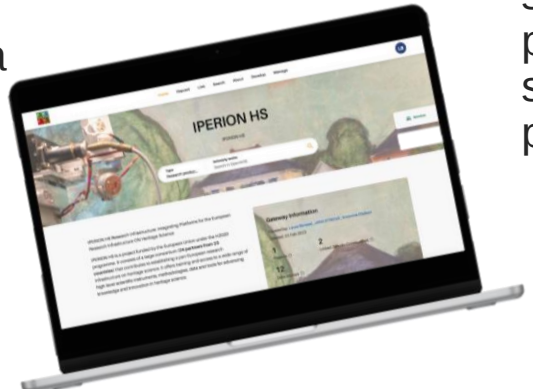
OpenAIRE Connect

OpenAIRE CONNECT è un servizio che ci ha consentito di sviluppare un portale personalizzato per ricercare e condividere i prodotti della ricerca open science nel settore delle scienze del patrimonio.

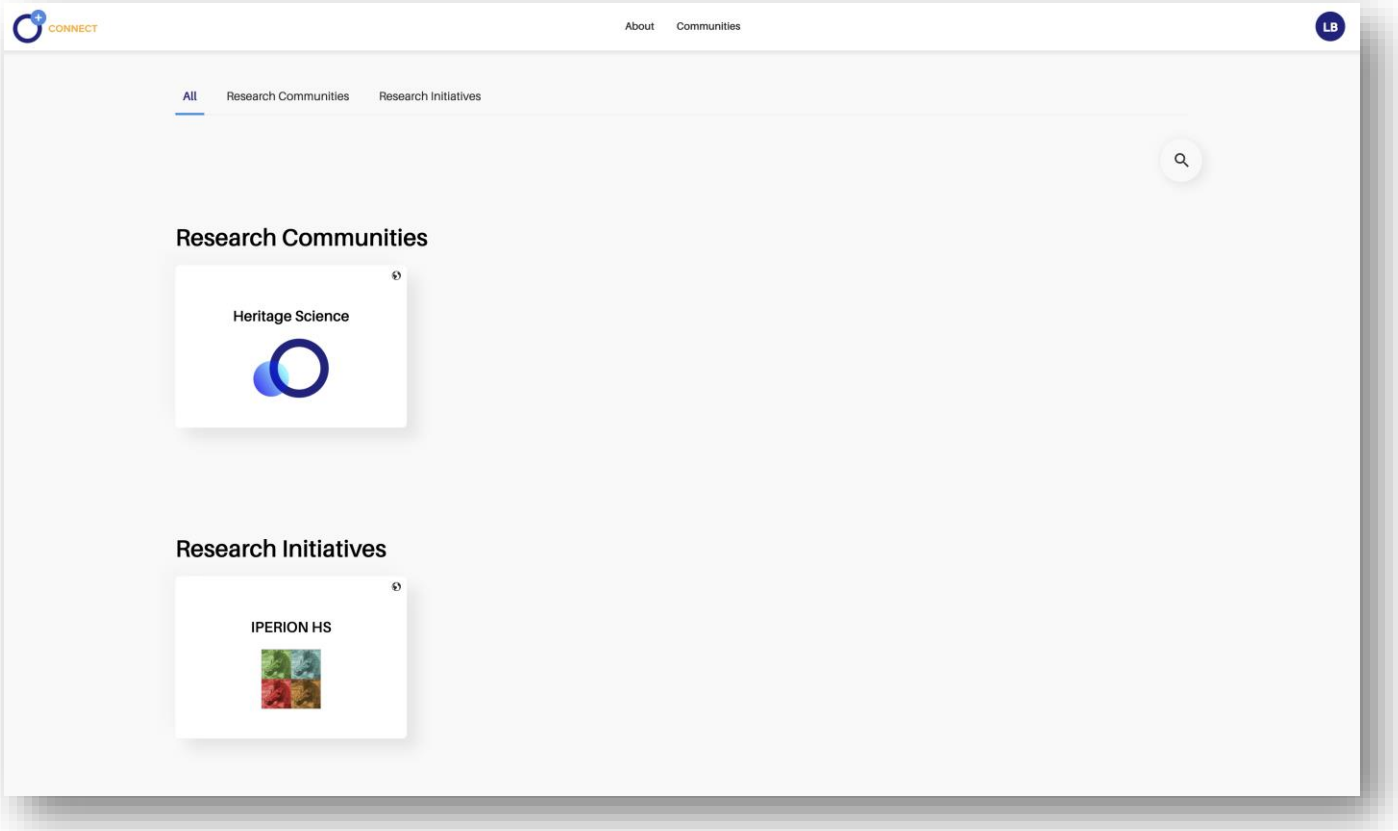
OpenAIRE CONNECT ha aumentato la visibilità e la diffusione dei prodotti della ricerca all'interno della comunità e oltre.



OpenAIRE Monitor

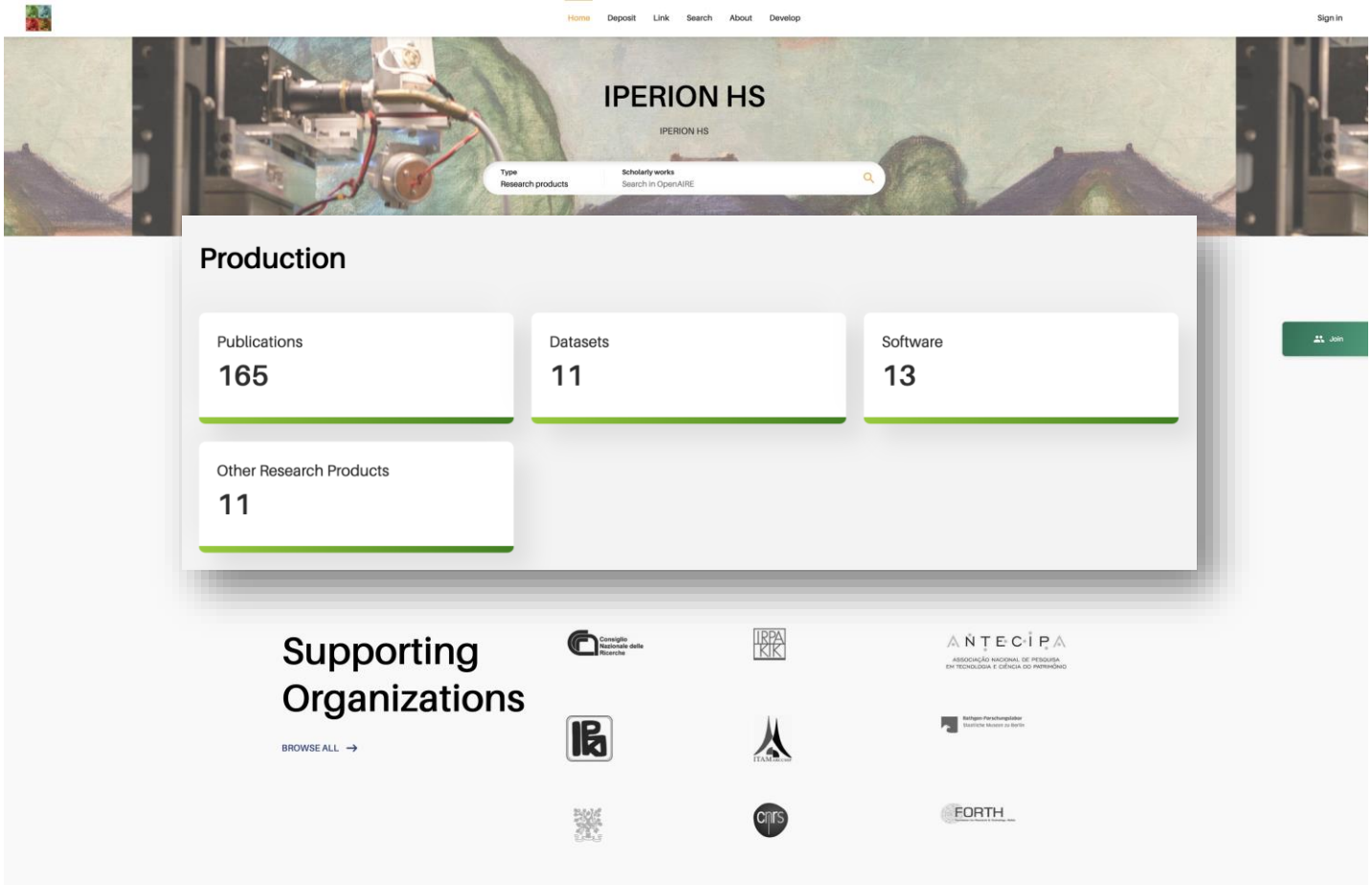
OpenAIRE Monitor Dashboard è un piattaforma che consente di tracciare i prodotti della ricerca e monitorarne l'impatto in termini di punti di forza o debolezza, valutare le metriche Open Science, valutare i costi, ma soprattutto consente di prendere decisioni strategiche e migliorare le pratiche della ricerca.

Connect and Monitor manager



OpenAIRE Connect IPERION HS

https://iperionhs.openaire.eu/



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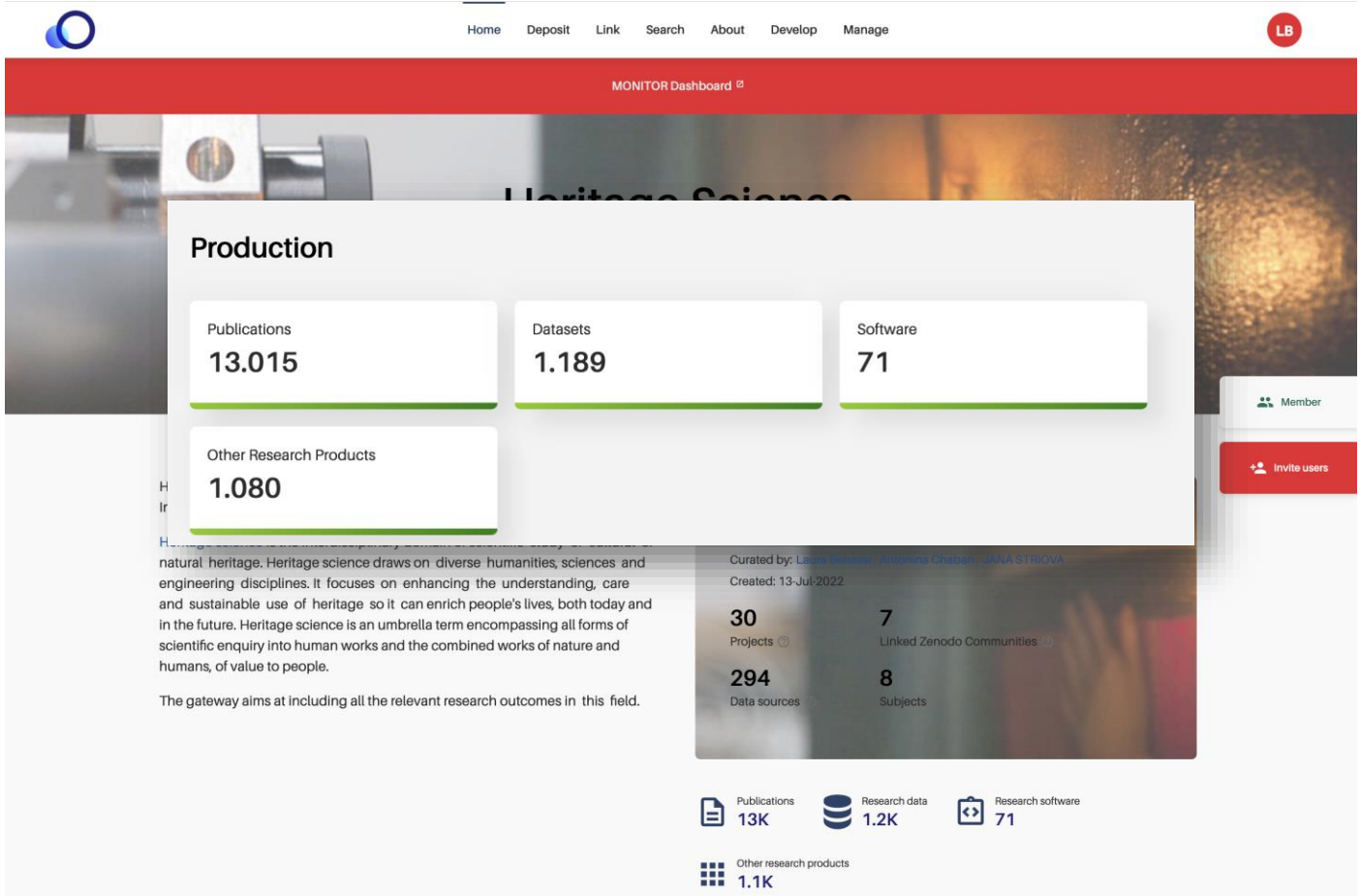
OpenAIRE Connect Heritage Science

https://heritage-science.openaire.eu/



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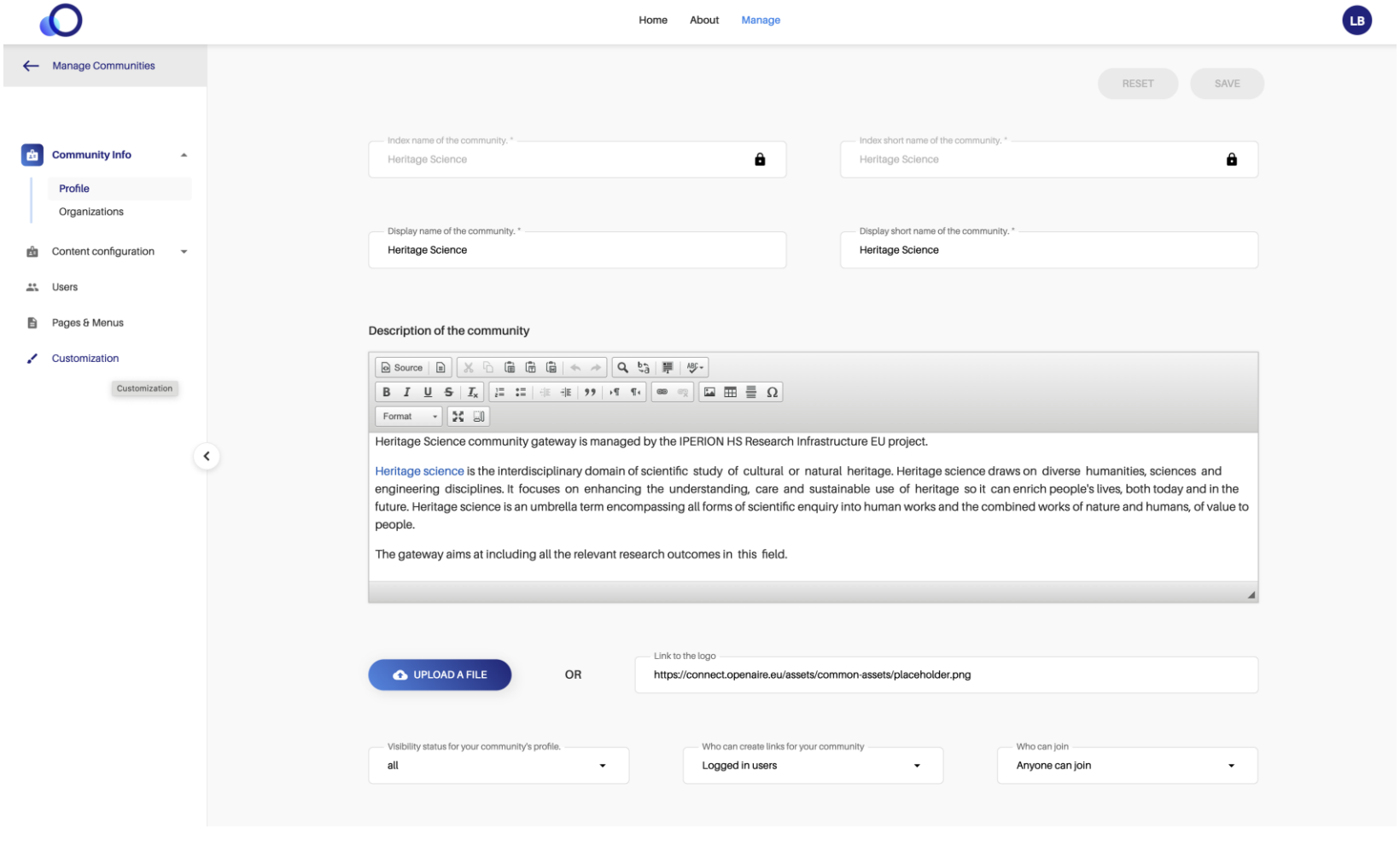

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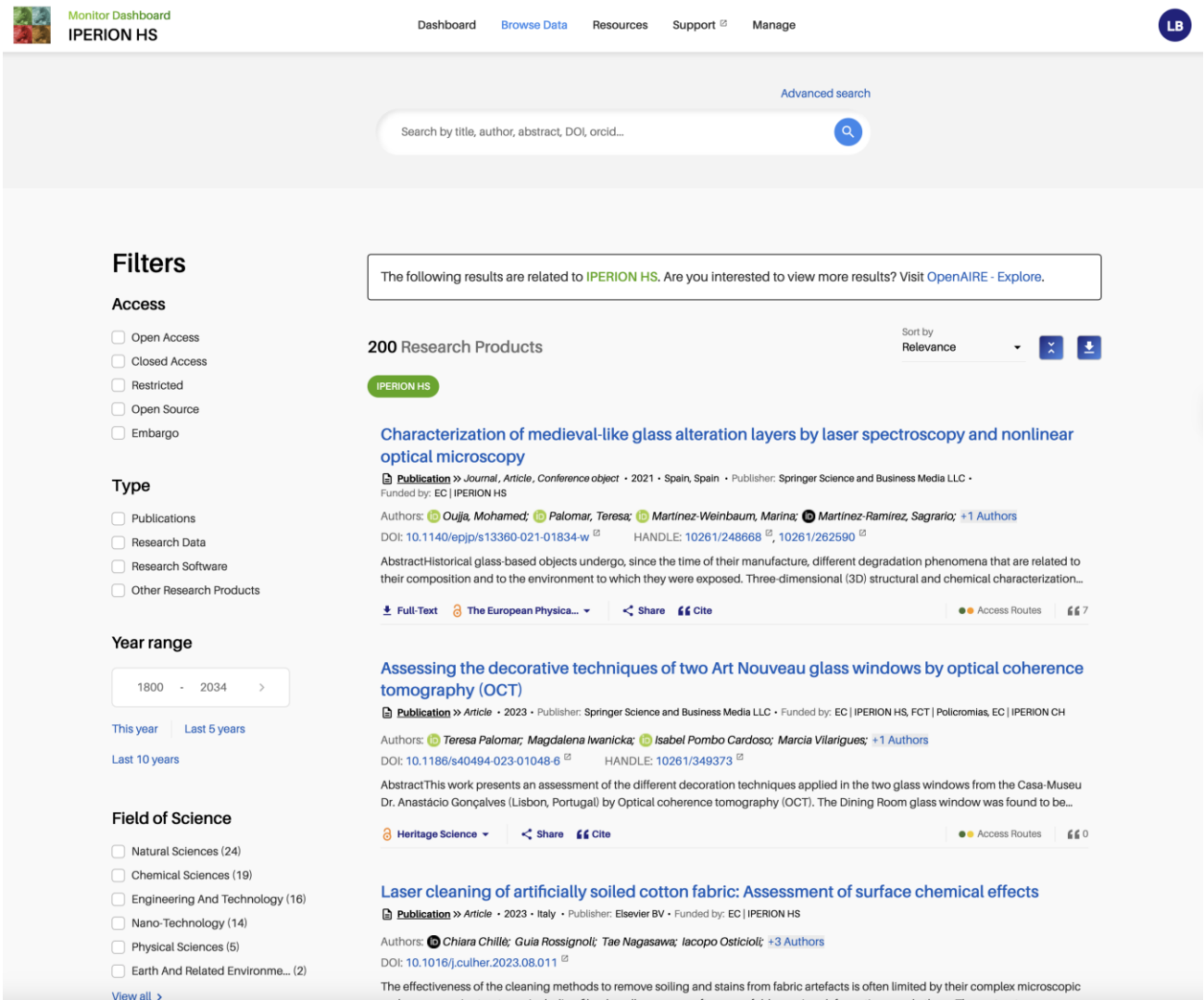
FILTRI

- Access
- Type
- Year range
- Field of Science
- Funder
- SDG
- Country
- Language
- Source
- Research community



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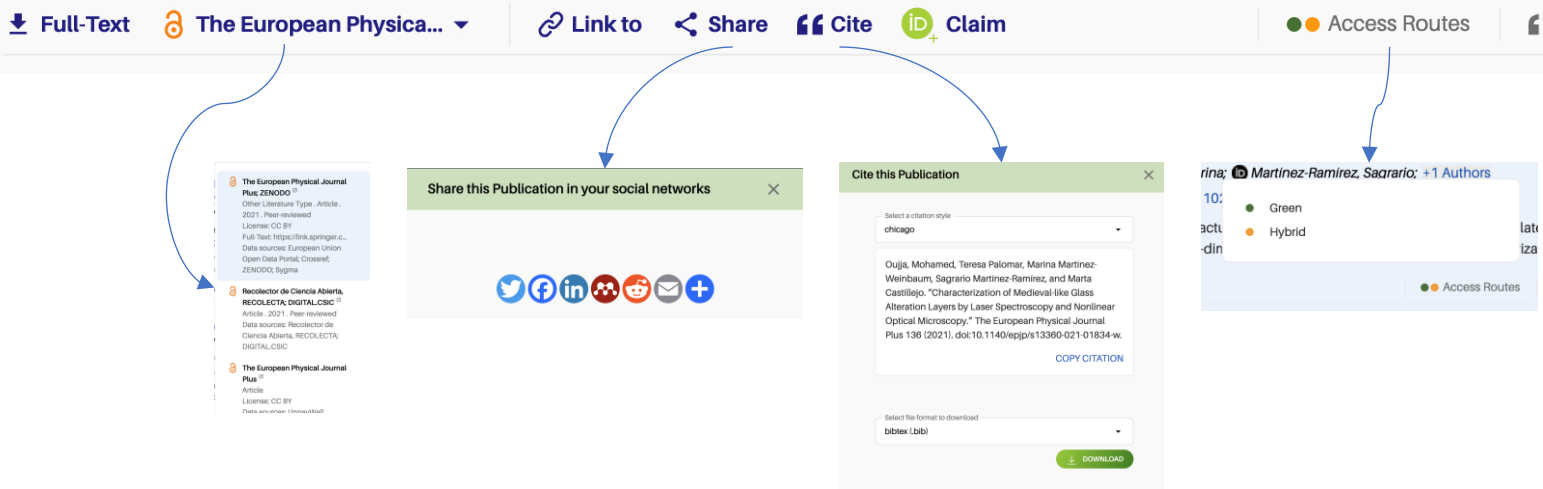
Characterization of medieval-like glass alteration layers by laser spectroscopy and nonlinear optical microscopy

Publication » *Journal*, *Article*, *Conference object* • 2021 • Spain, Spain • Publisher: Springer Science and Business Media LLC •
Funded by: EC | IPERION HS

Authors: *Oujja, Mohamed;* *Palomar, Teresa;* *Martínez-Weinbaum, Marina;* *Martínez-Ramírez, Sagrario;* +1 Authors

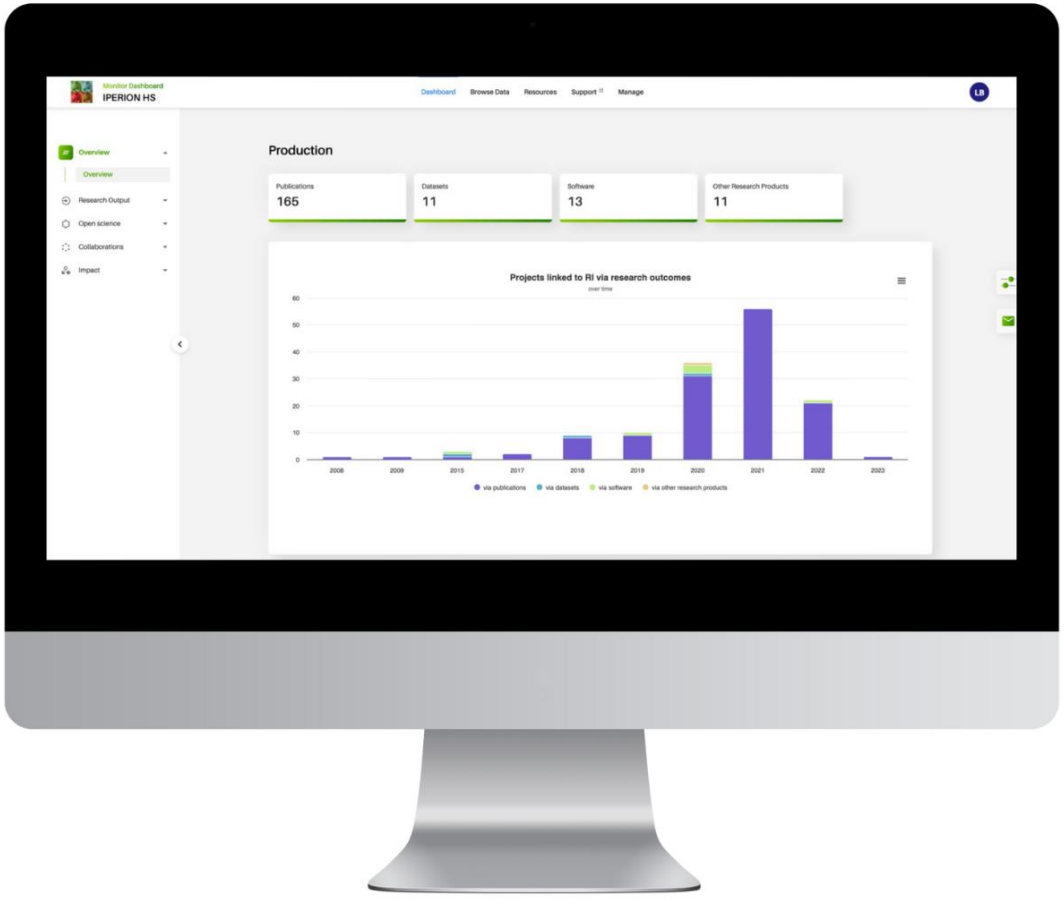
DOI: 10.1140/epjp/s13360-021-01834-w HANDLE: 10261/248668, 10261/262590

AbstractHistorical glass-based objects undergo, since the time of their manufacture, different degradation phenomena that are related to their composition and to the environment to which they were exposed. Three-dimensional (3D) structural and chemical characterization...



4. OpenAIRE Monitor: le dashboard IPERION HS e Heritage Science

OpenAIRE Monitor IPERION HS



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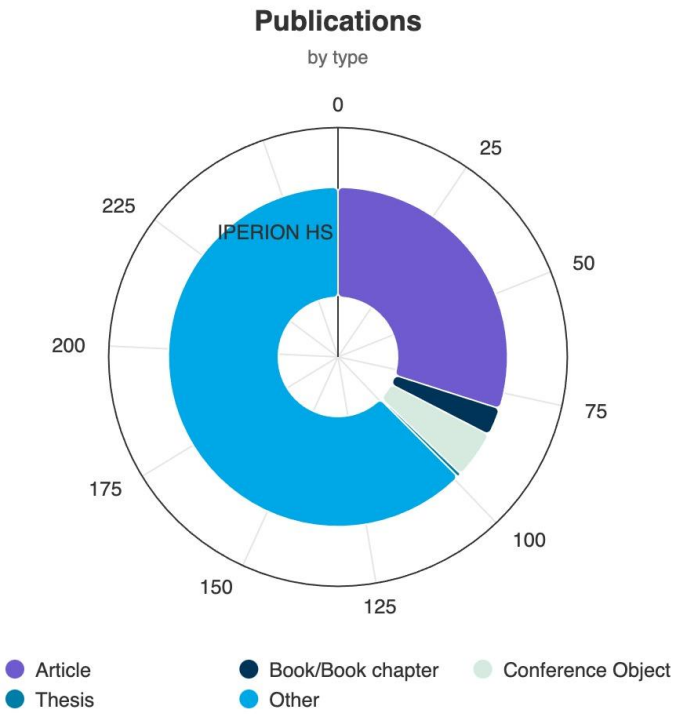
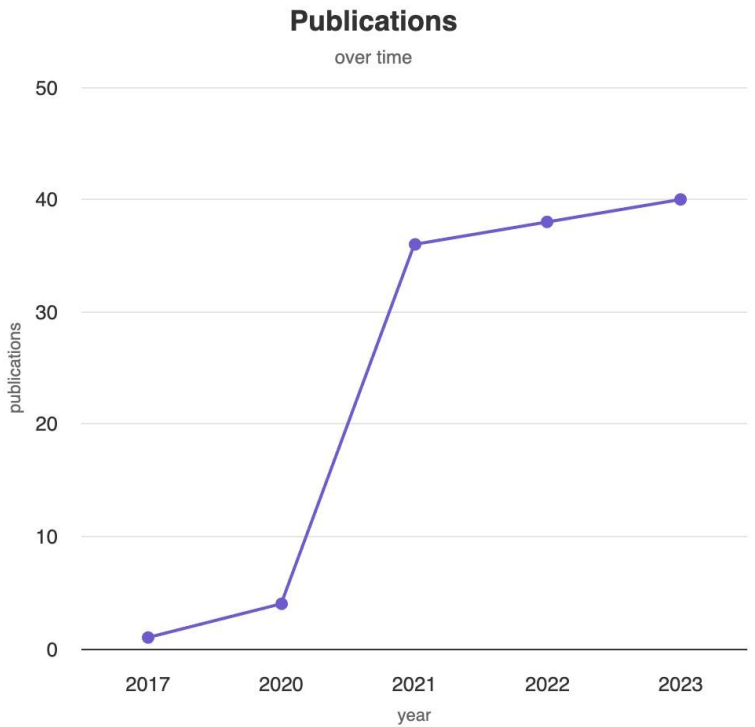
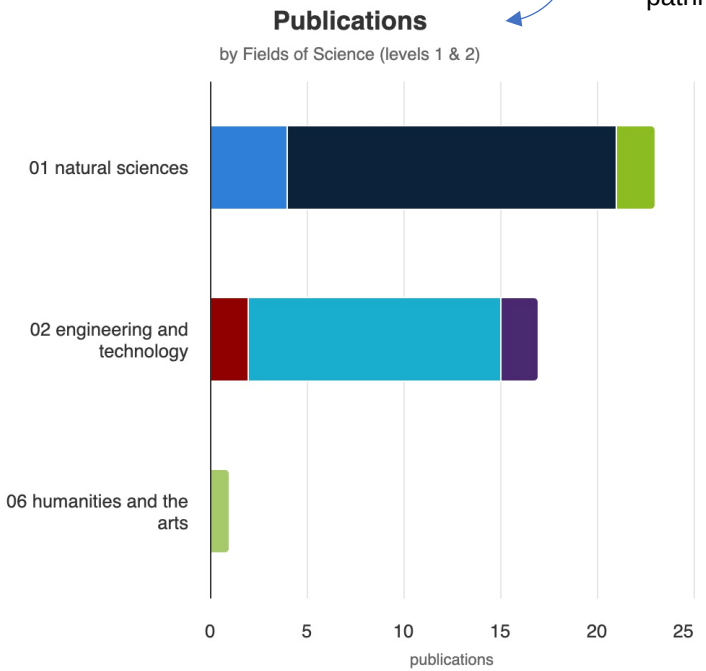
Publications



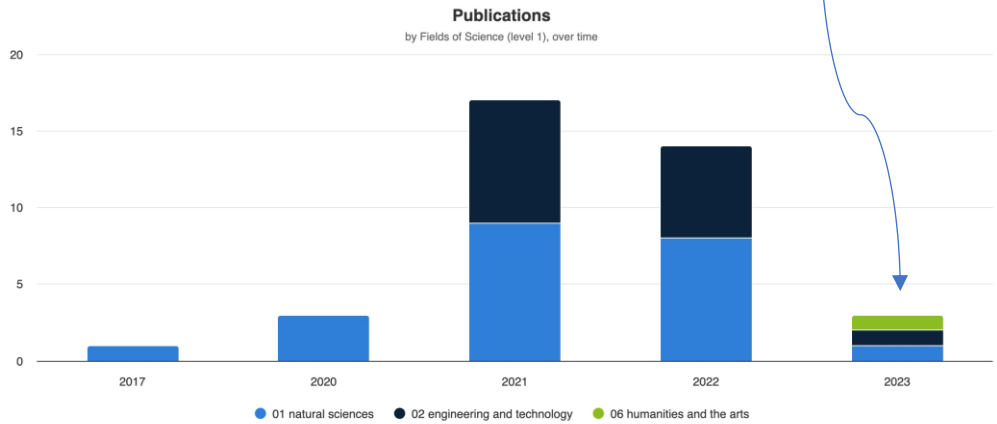


Publications

Grazie a OpenAIRE Graph implementato da AI, Fields of Science consente di far emergere tutto il potenziale multidisciplinare della comunità delle scienze del patrimonio



Corrisponde al coinvolgimento di nuove comunità (archeologi, paleontologi, architetti, etc…)



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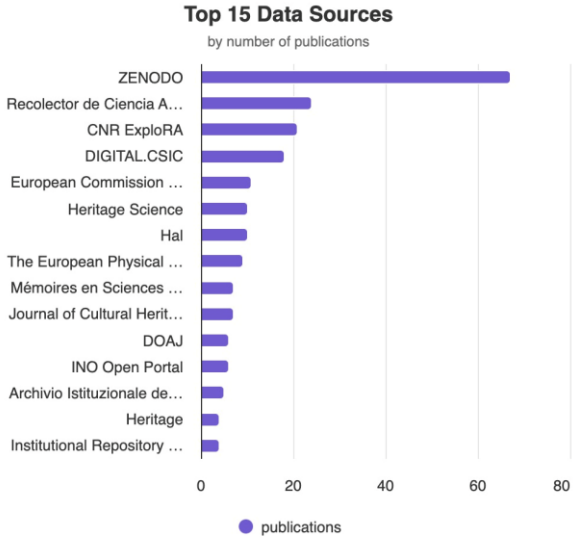
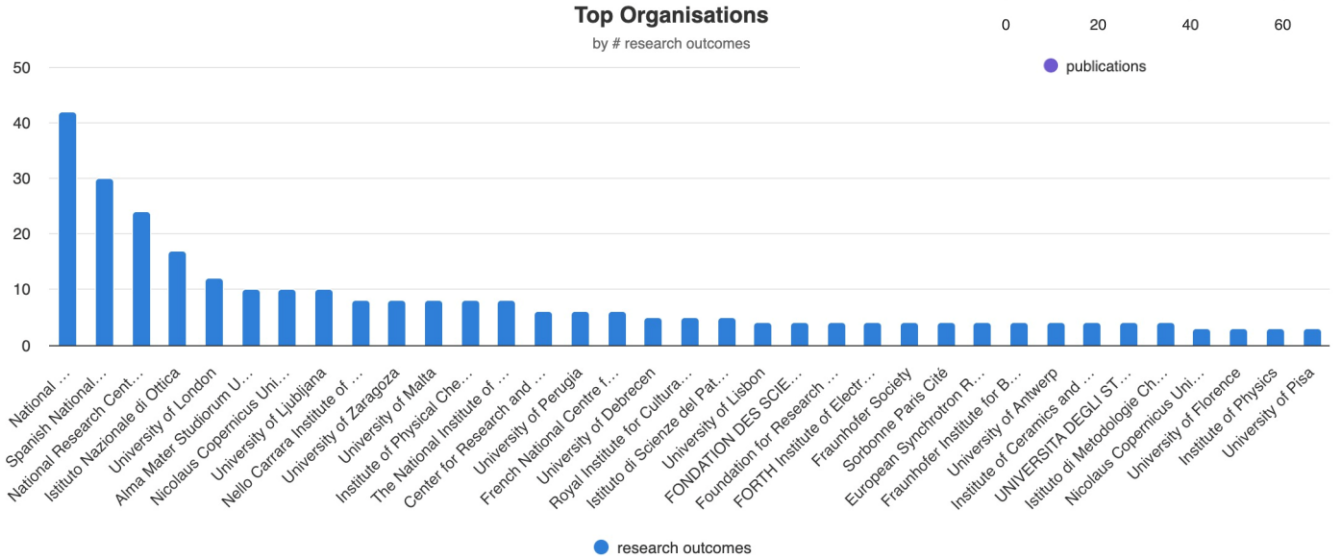
Data Sources & Top Organisations





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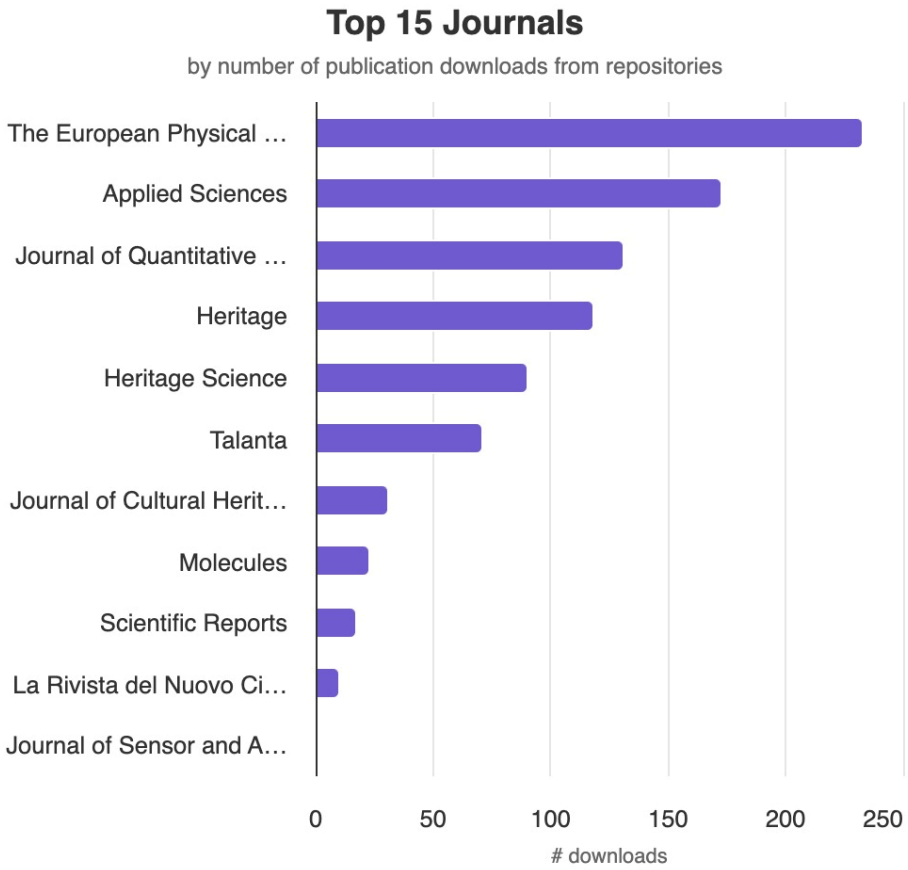
Top Journals



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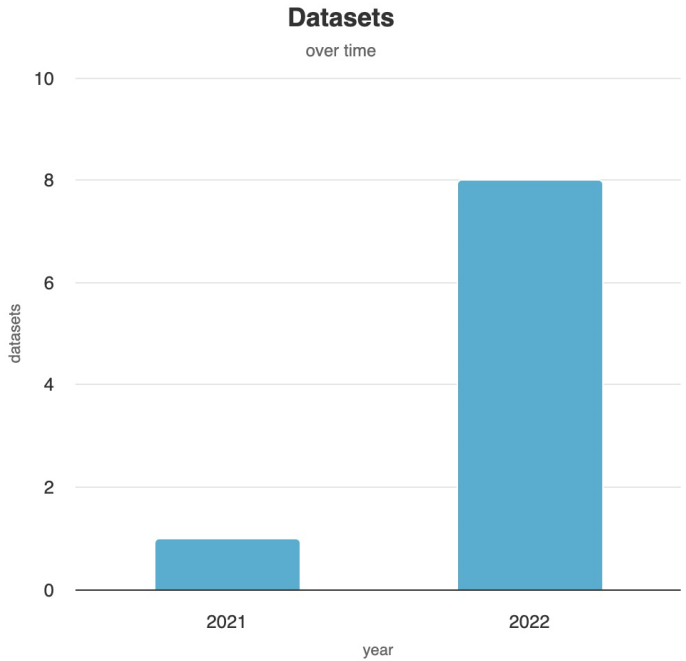
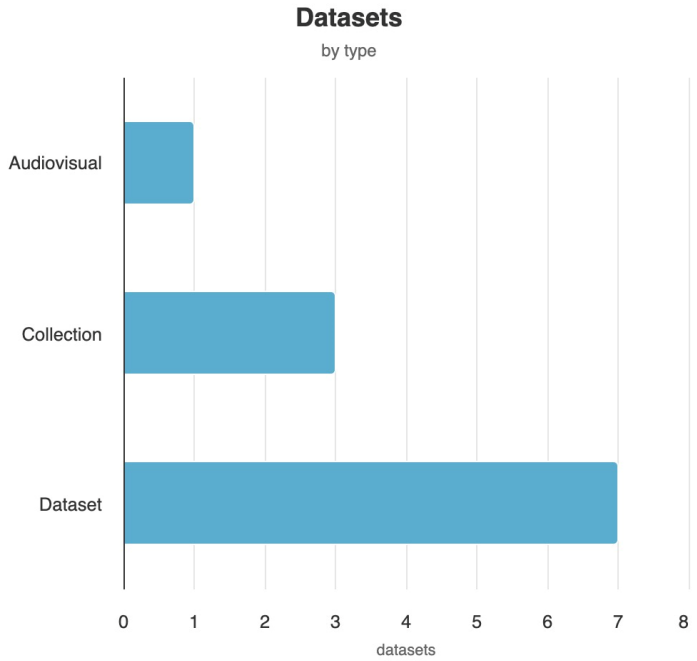
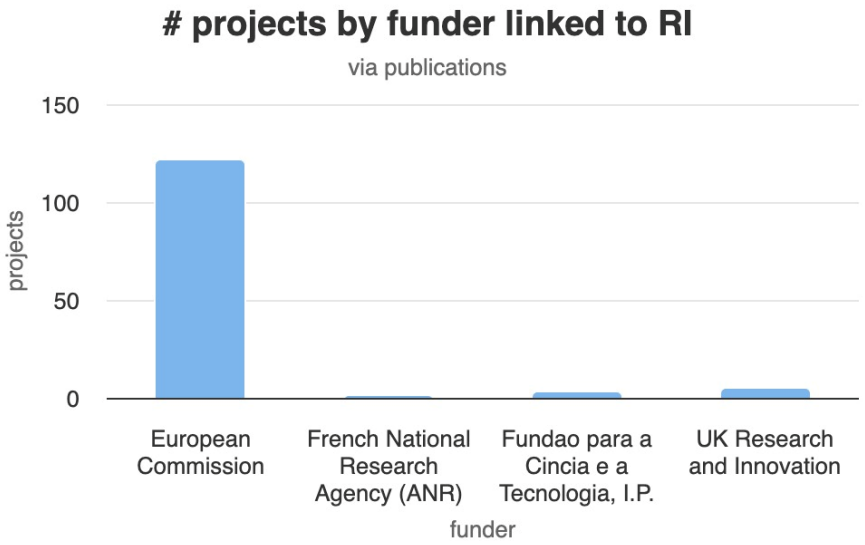
Datasets

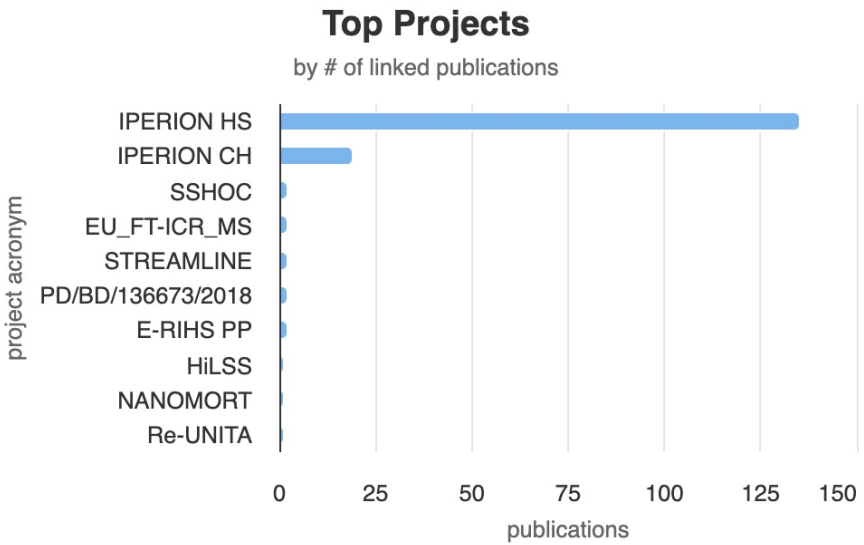

Datasets
over time
10
8
6
4
2
0
datasets
2021
2022
year


Datasets
by type
Audiovisual
Collection
Dataset
0
1
2
3
4
5
6
7
8
datasets

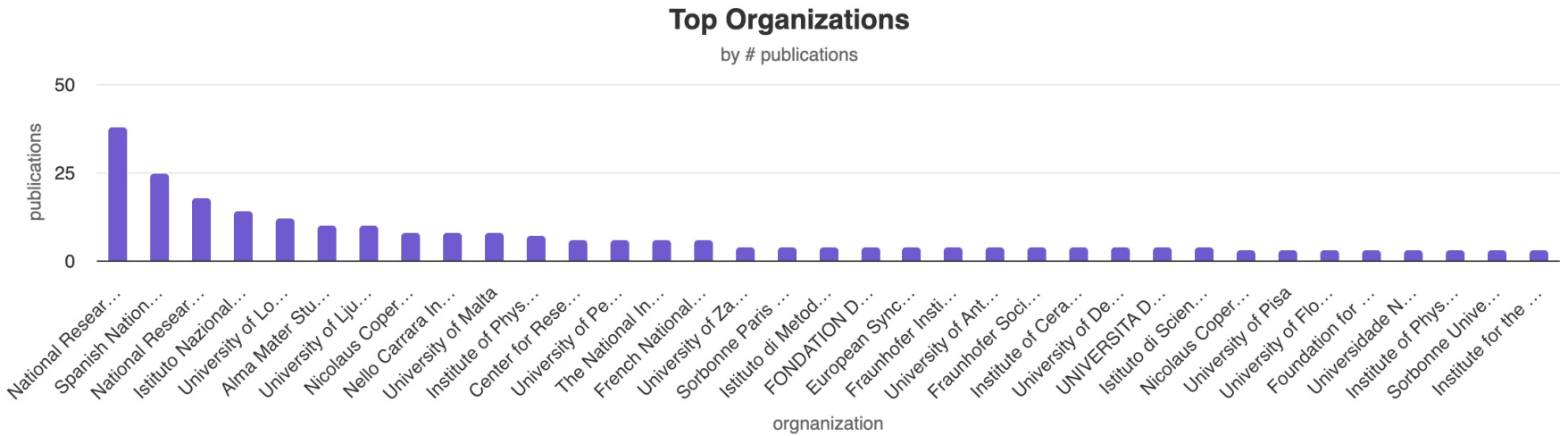
Projects and Funders

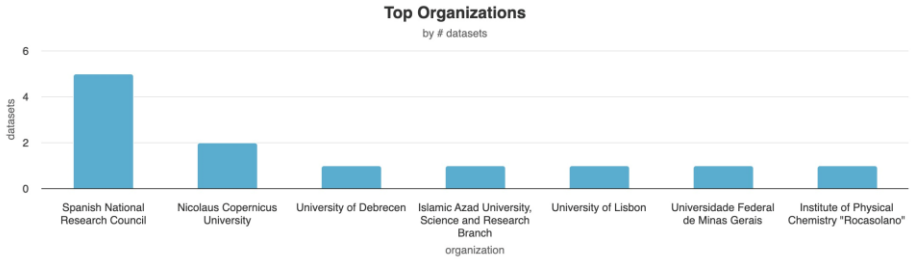
projects linked to publications of the...	projects linked to datasets of the RI	projects linked to software of the RI
131	3	6

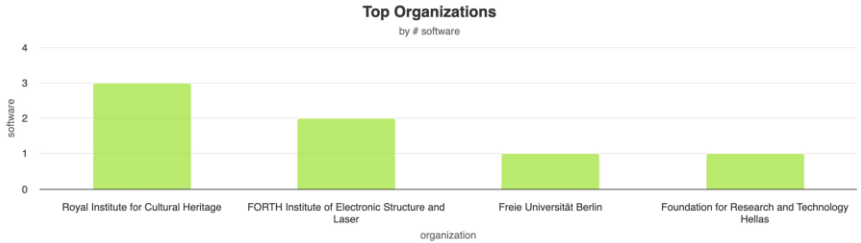




Collaborations







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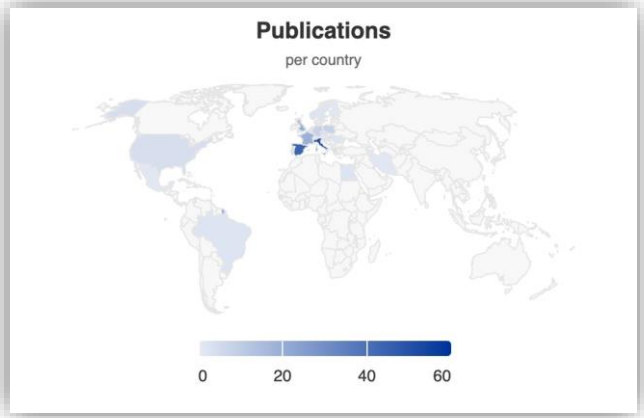
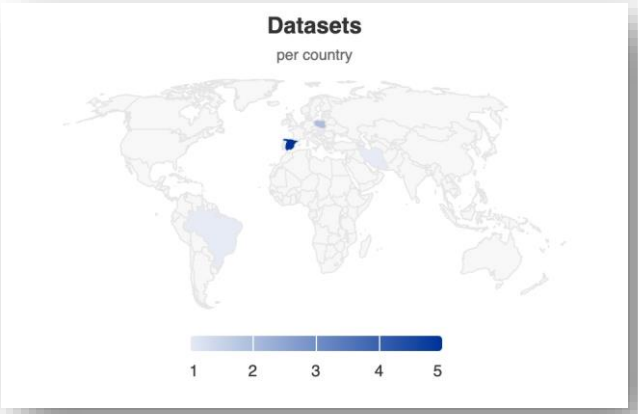
Countries



Publications

Category	publications		
	iso-a2	value	id
Albania	AL	1	AL
Austria	AT	1	AT
Belgium	BE	7	BE
Brazil	BR	2	BR
Switzerland	CH	3	CH
Cyprus	CY	2	CY
Czech Republic	CZ	4	CZ
Germany	DE	8	DE
Denmark	DK	1	DK
Estonia	EE	1	EE
Egypt	EG	2	EG
Spain	ES	44	ES
Finland	FI	1	FI
France	FR	19	FR
United Kingdom	GB	21	GB
Greece	GR	6	GR
Croatia	HR	1	HR
Hungary	HU	4	HU
Israel	IL	2	IL
Iran	IR	1	IR
Italy	IT	52	IT
Malta	MT	8	MT
Mexico	MX	1	MX
Netherlands	NL	4	NL
Norway	NO	2	NO
Poland	PL	8	PL
Portugal	PT	5	PT
Romania	RO	2	RO
Sweden	SE	2	SE
Slovenia	SI	13	SI
30	UNKNOWN	4	UNKNOWN
United States of America	US	4	US



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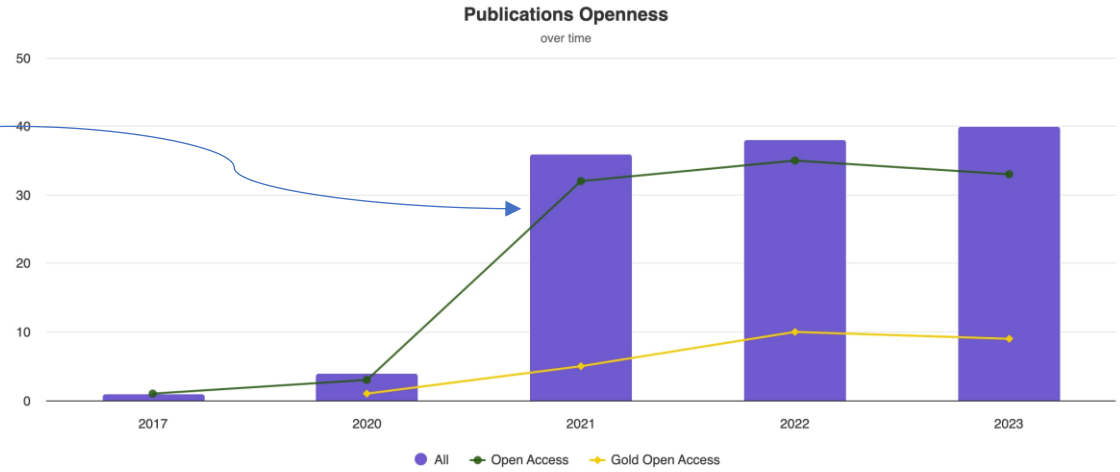
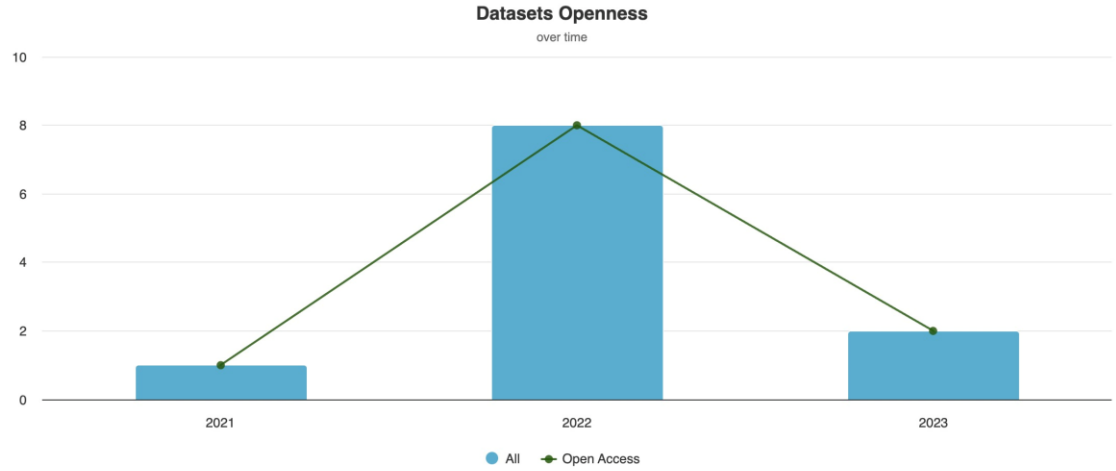
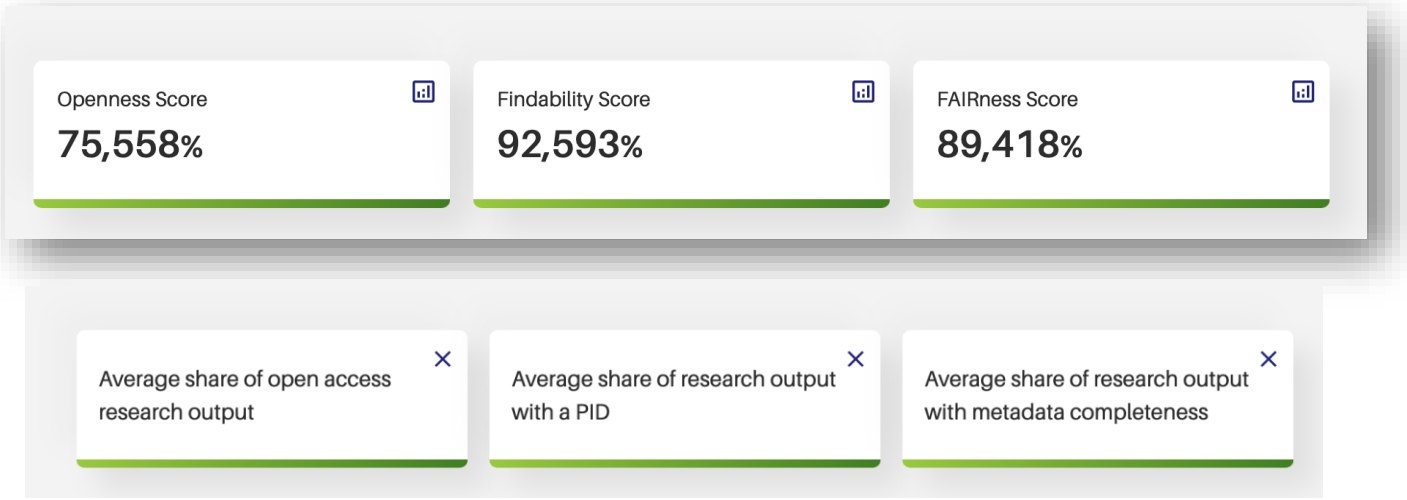
Openness

Corrisponde al cambiamento dei requisiti nei progetti europei (HORIZON Europe) – as open as possibile, as closed as necessary

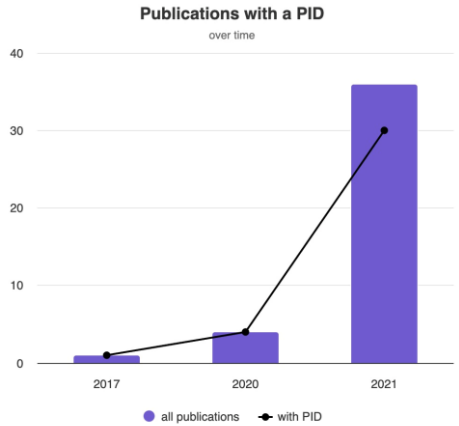


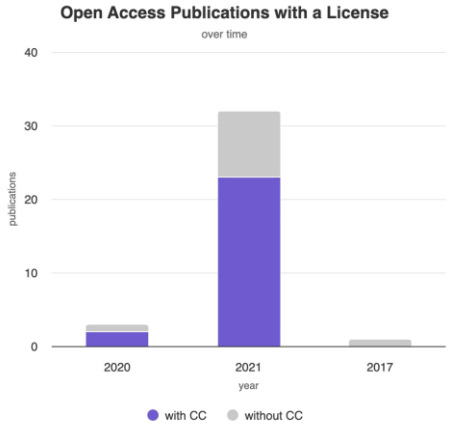


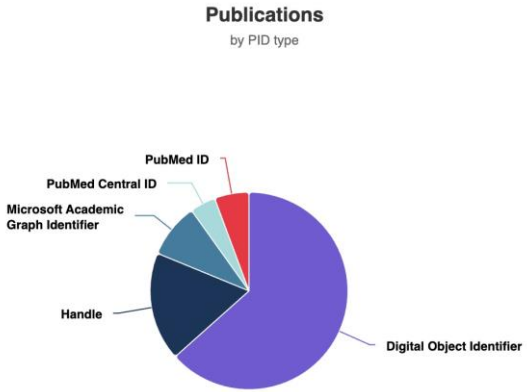
Openness

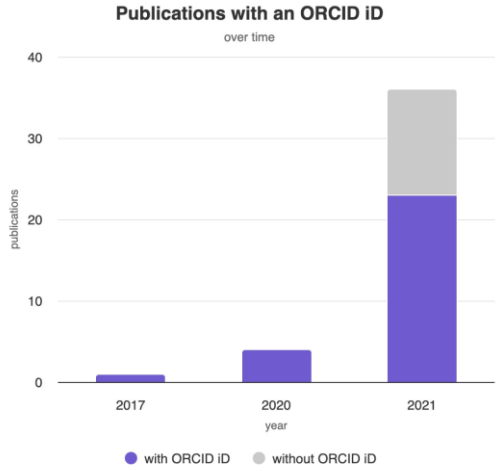

Openness Score
75,558%
Findability Score
92,593%
FAIRness Score
89,418%
Average share of open access research output
Average share of research output with a PID
Average share of research output with metadata completeness

OPEN SCIENCE- publications









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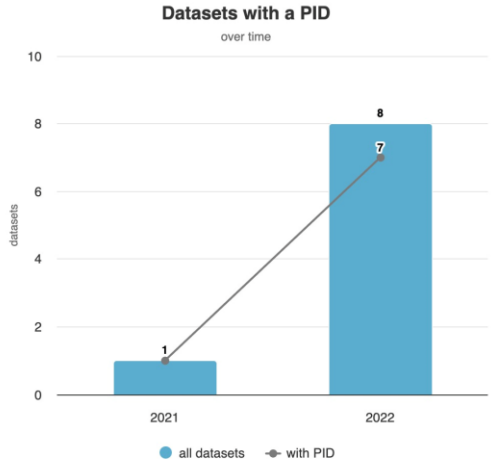

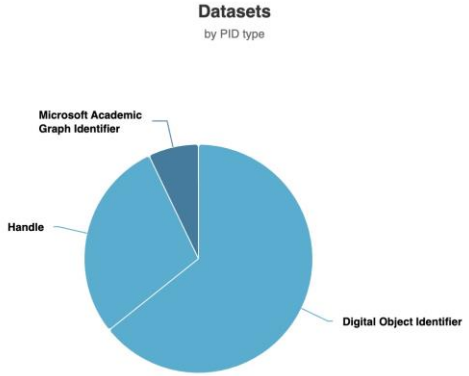

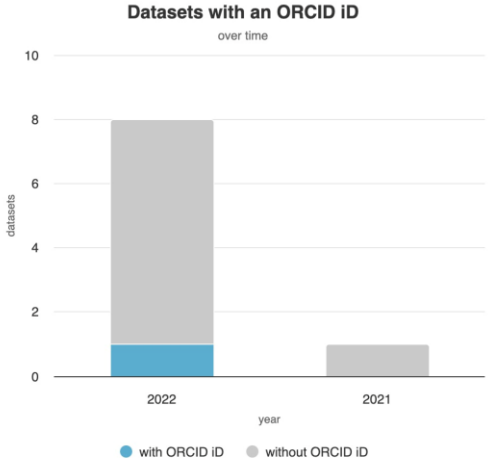

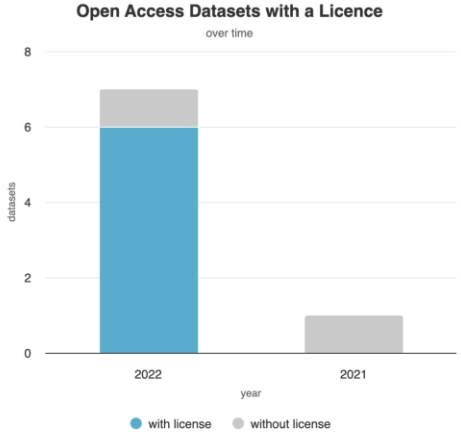

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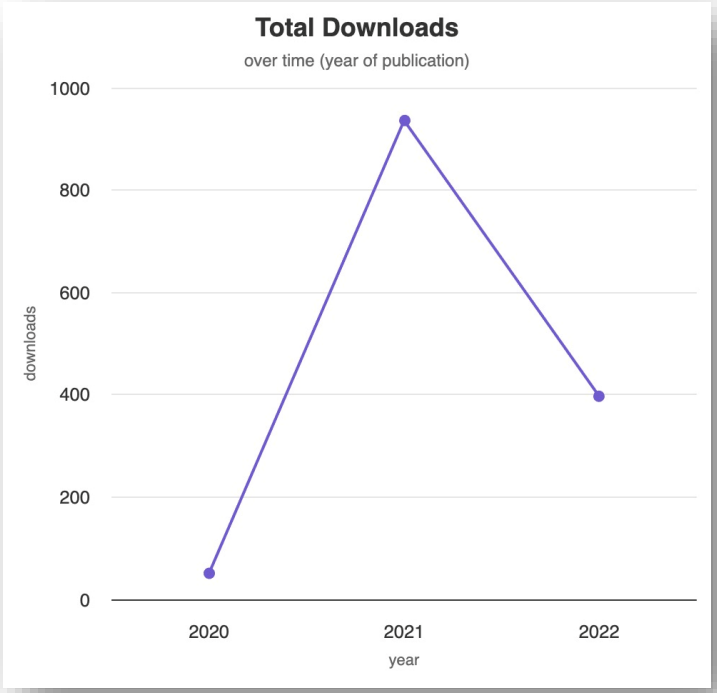

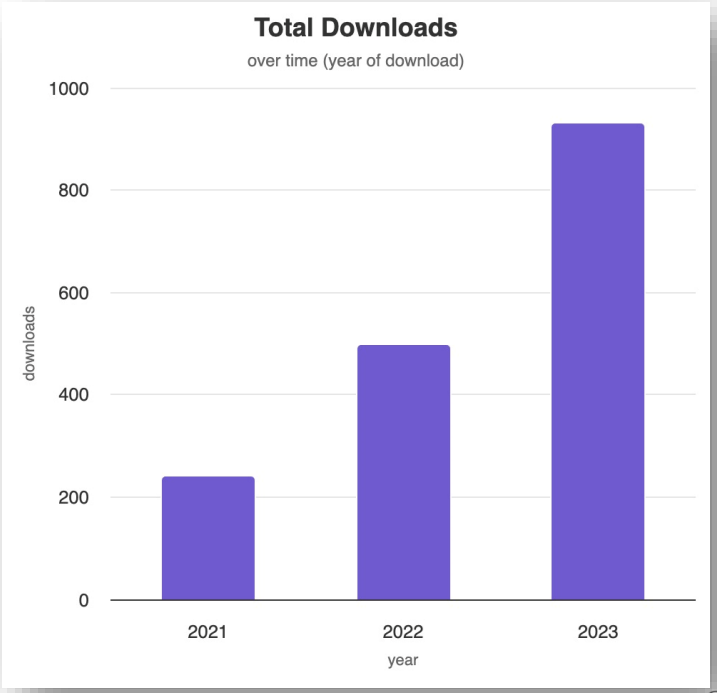

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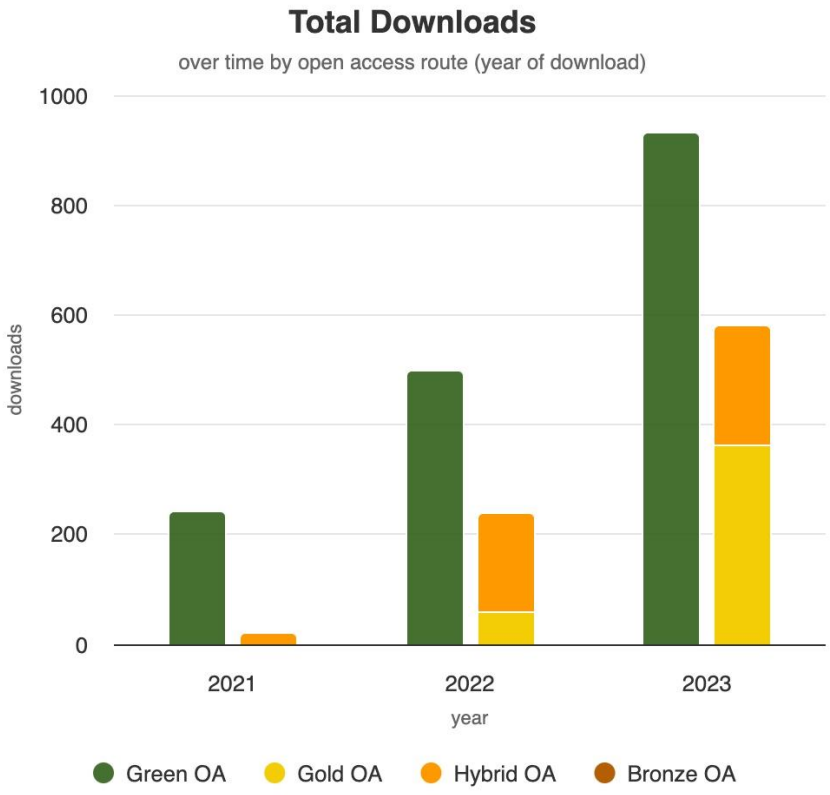
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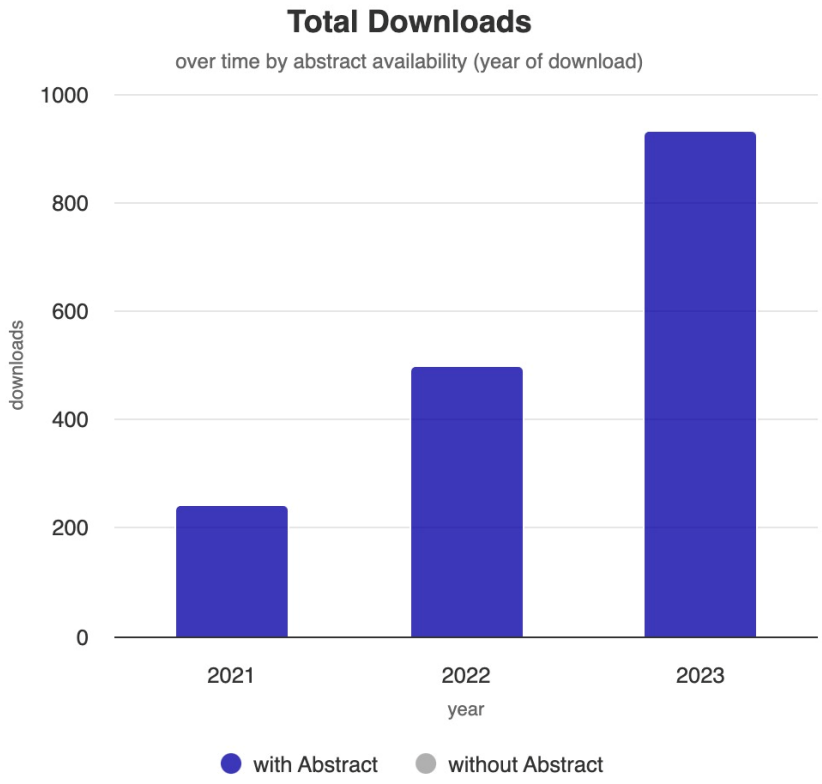
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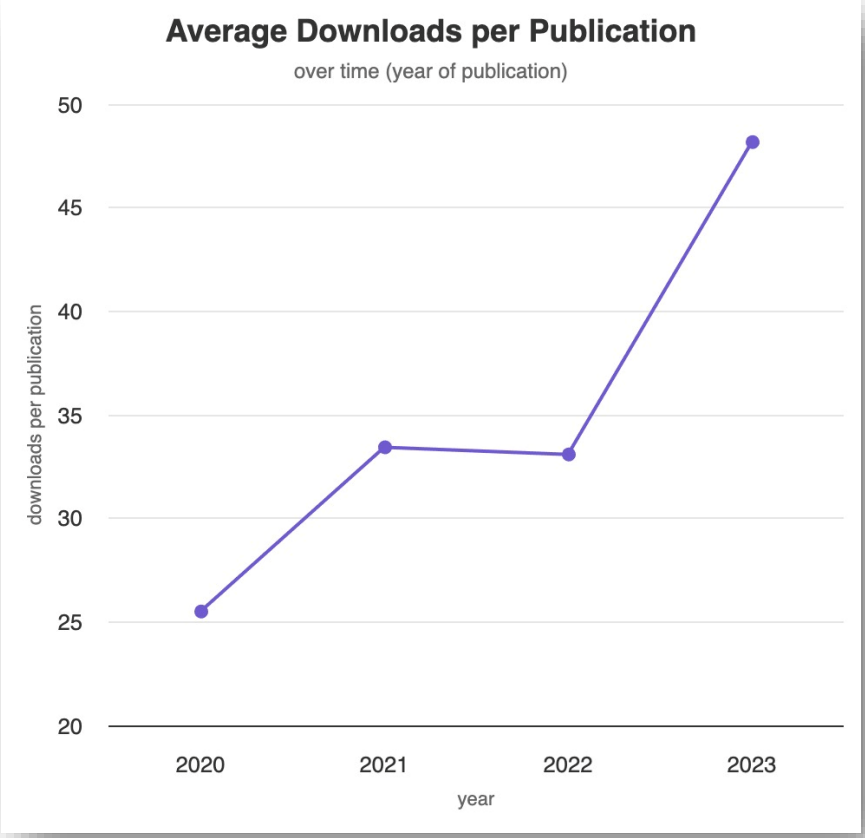

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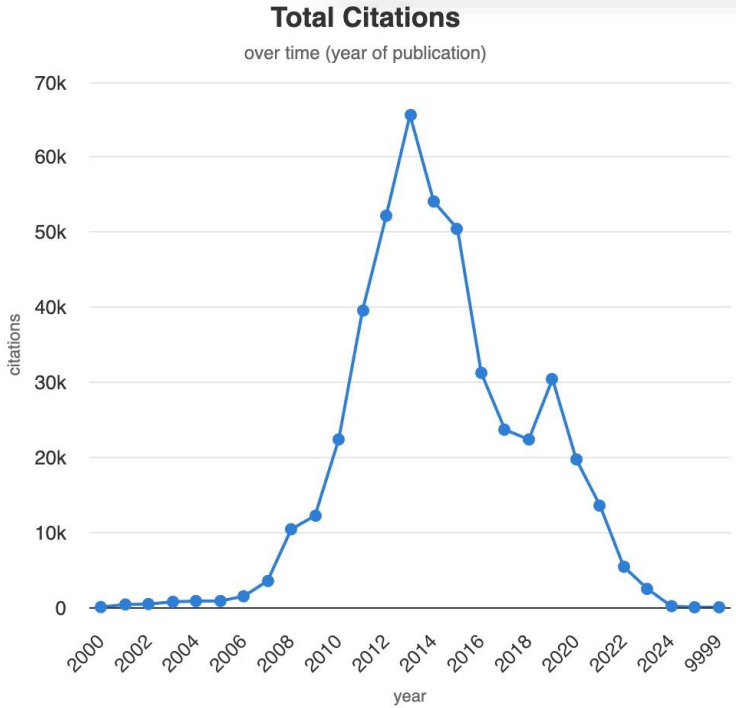

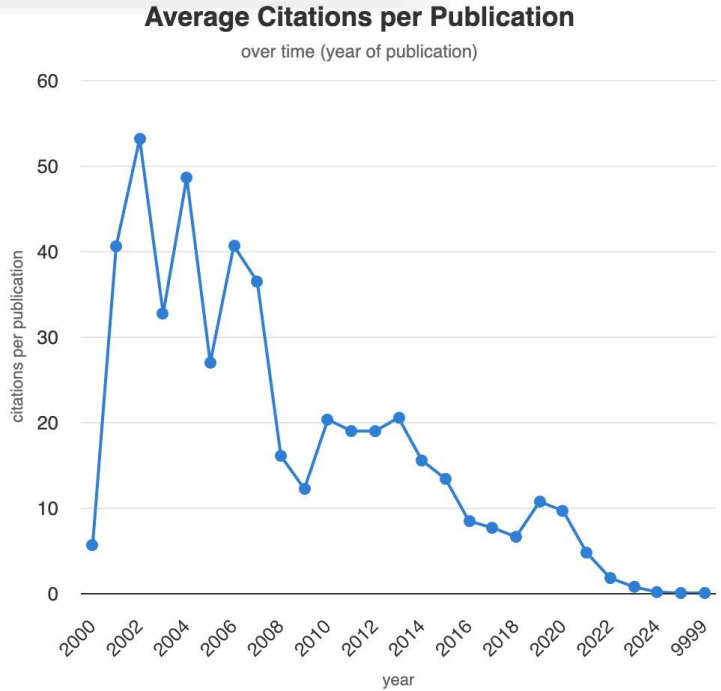

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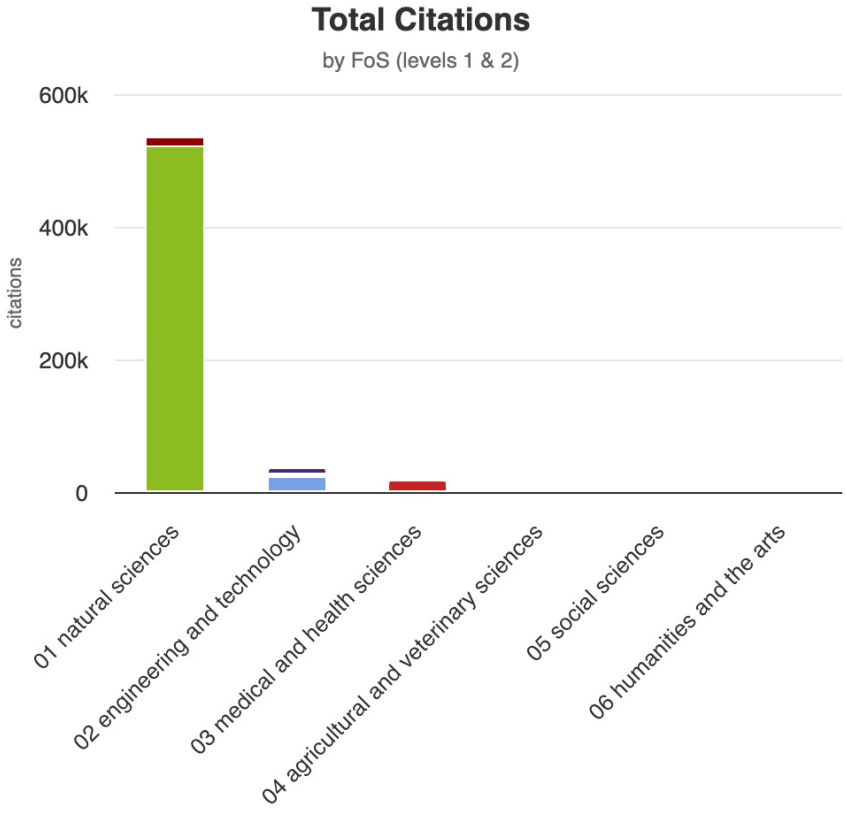
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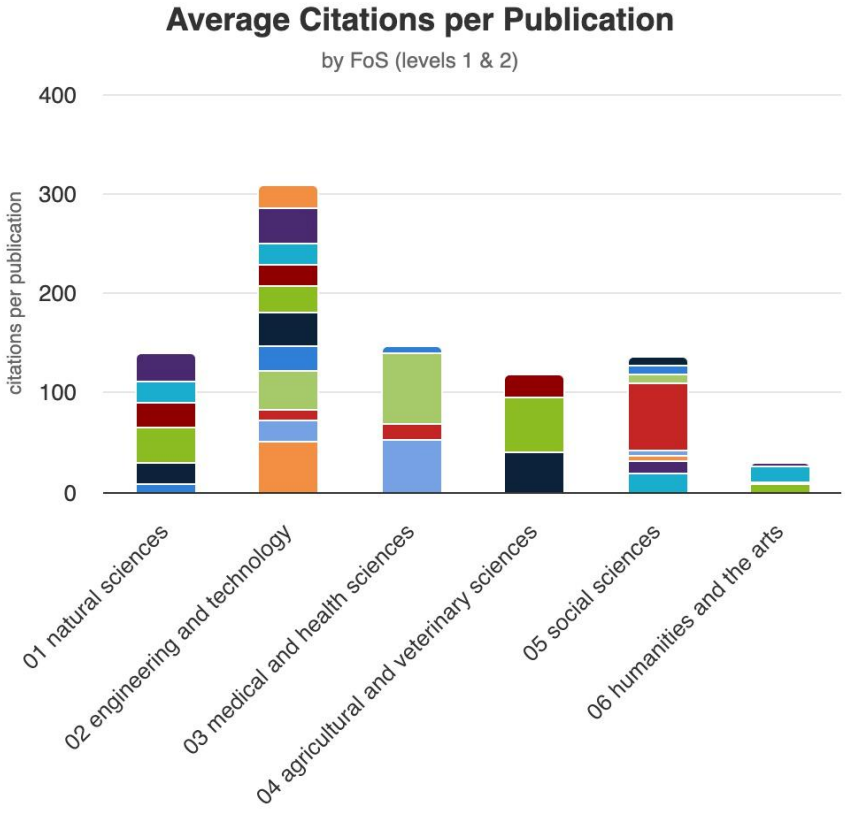
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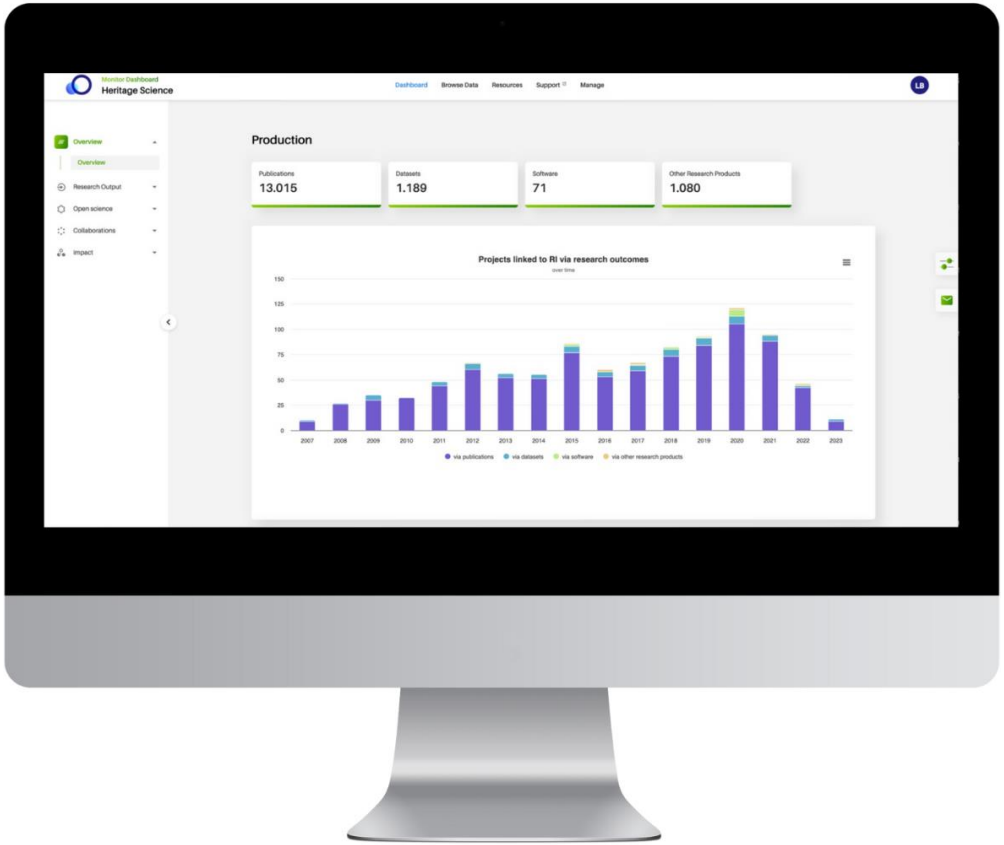

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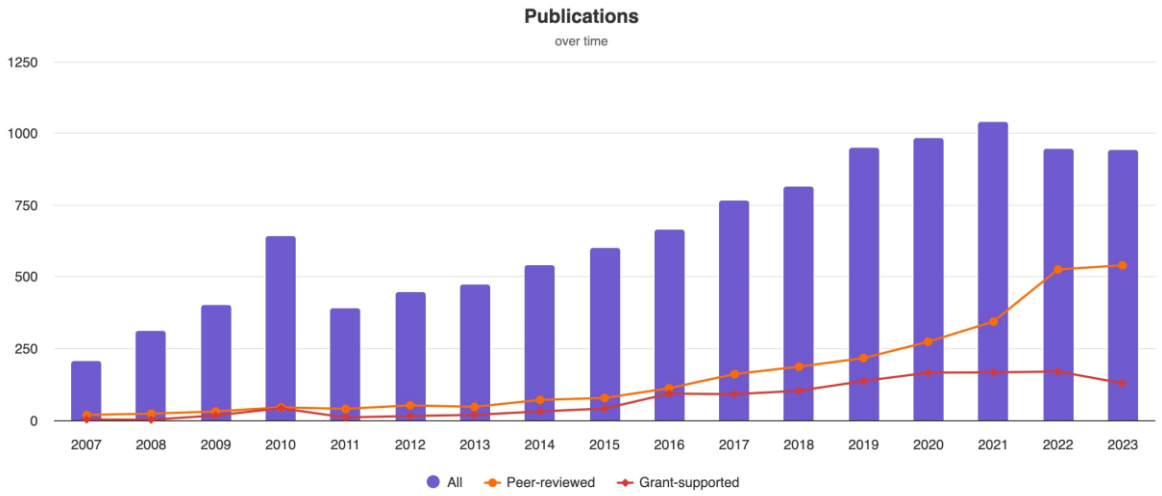

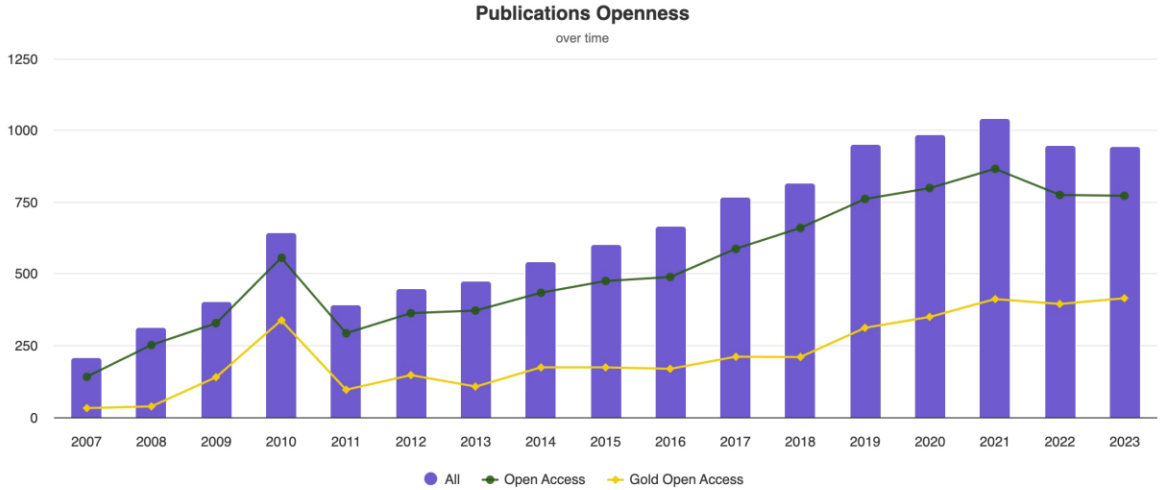

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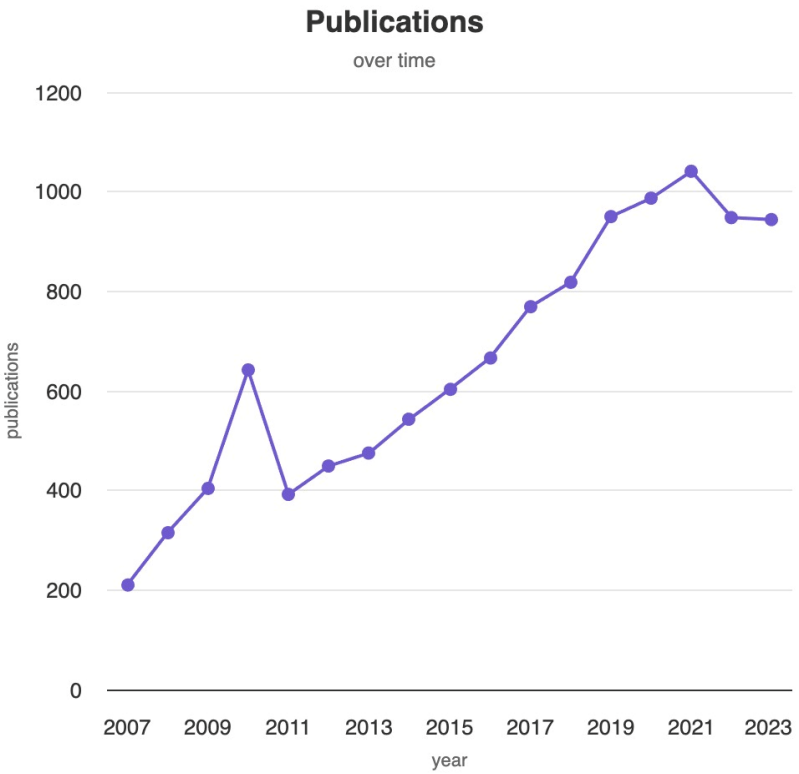

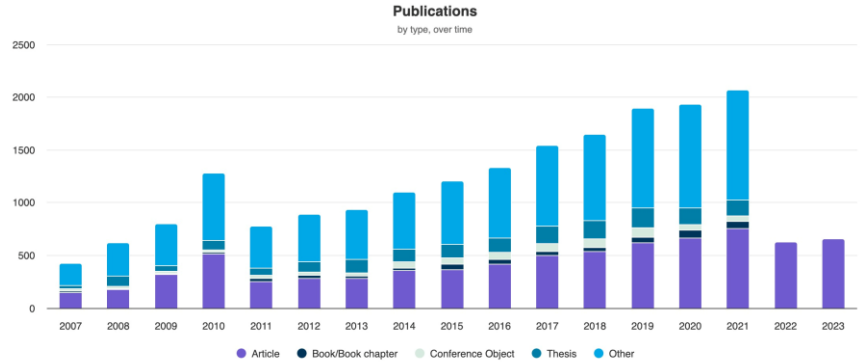

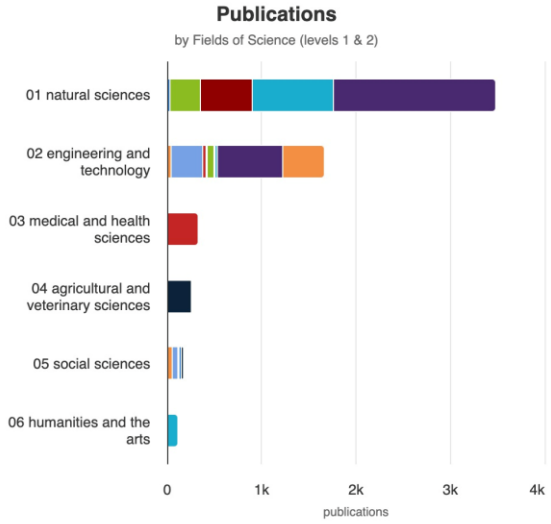

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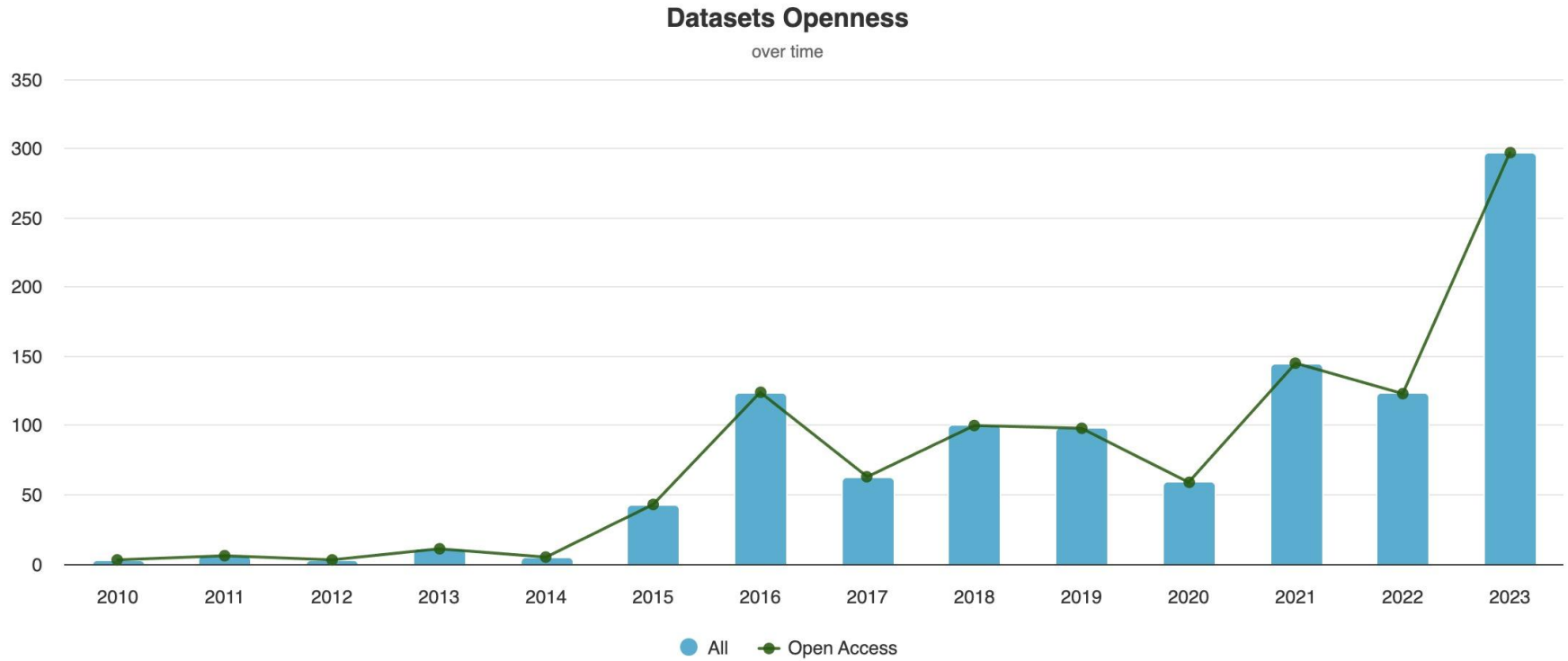
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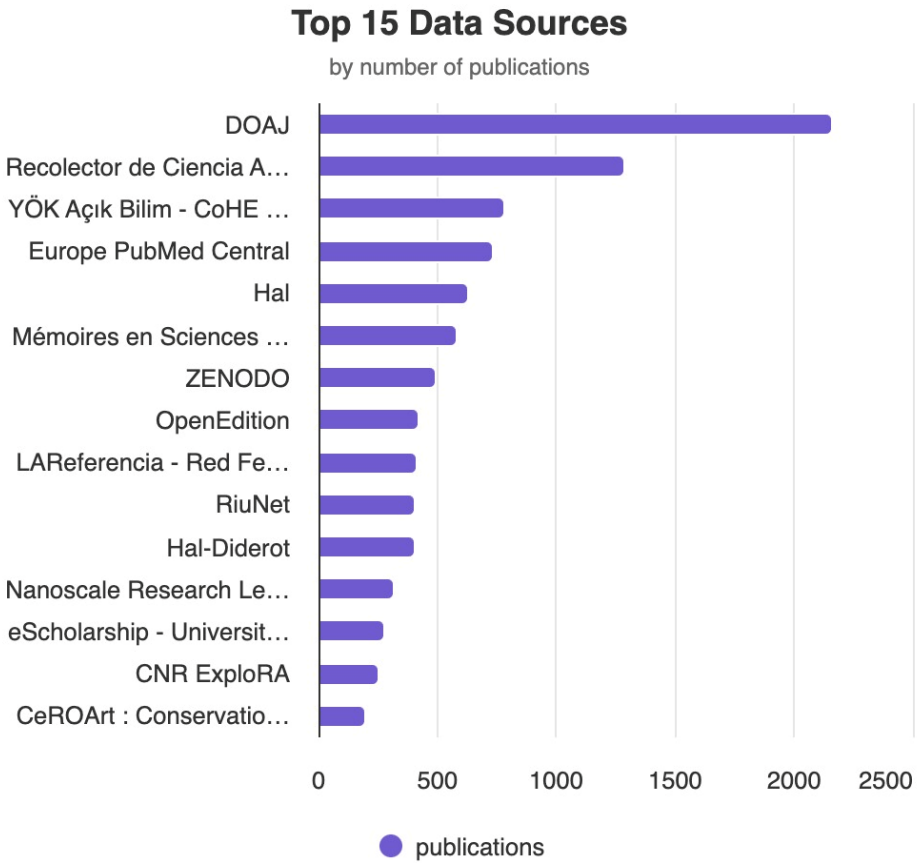

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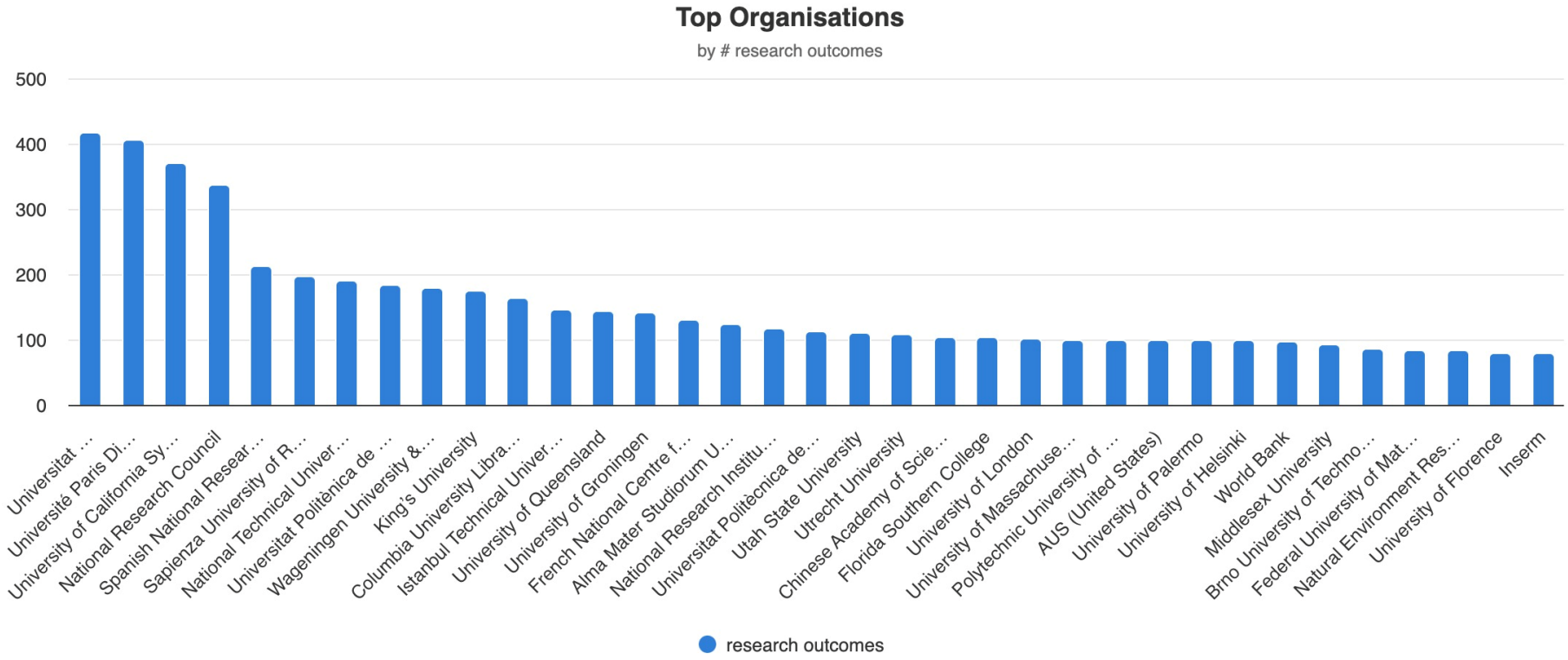

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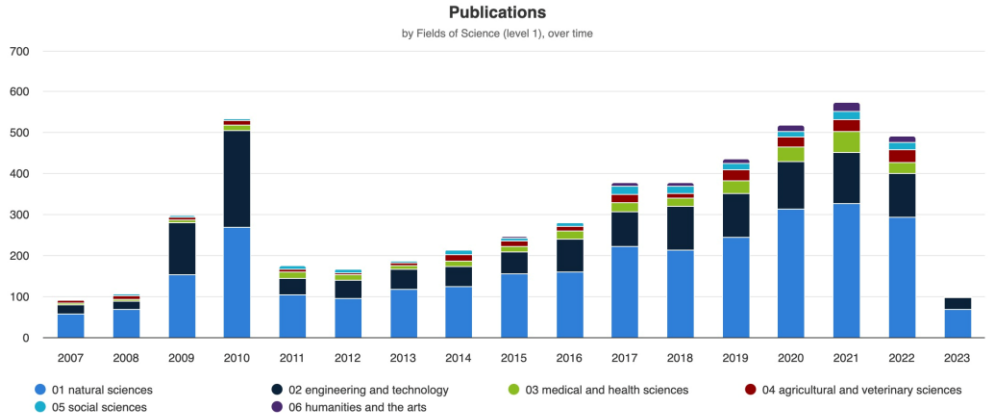

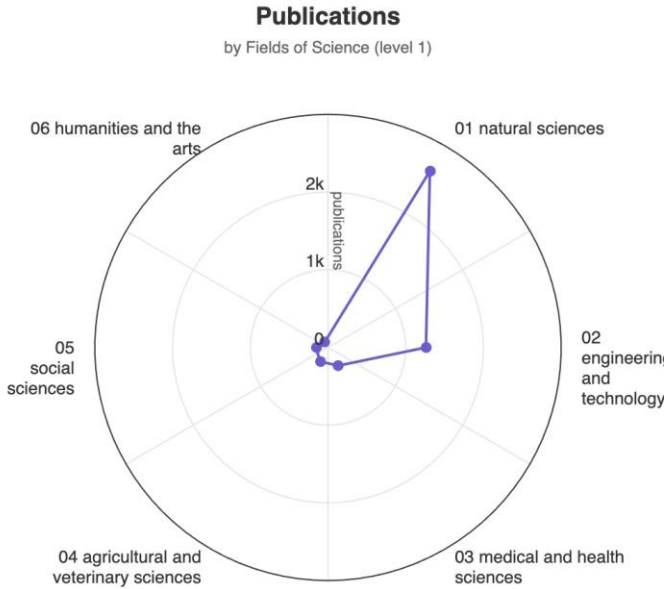

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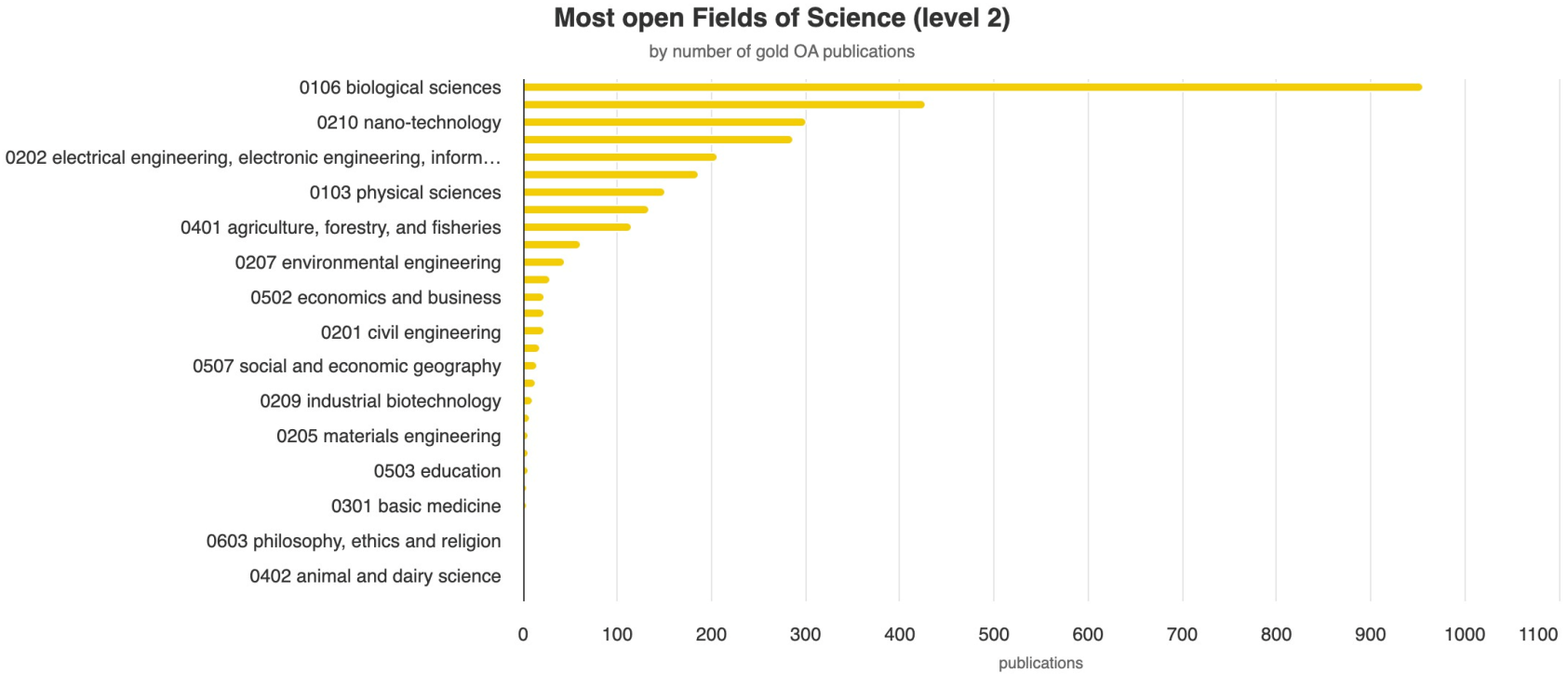

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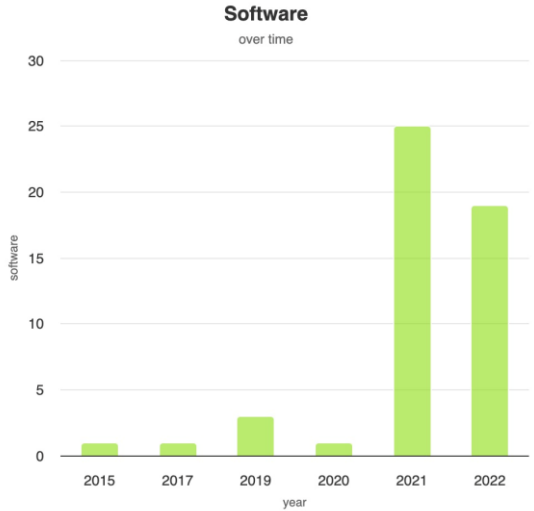

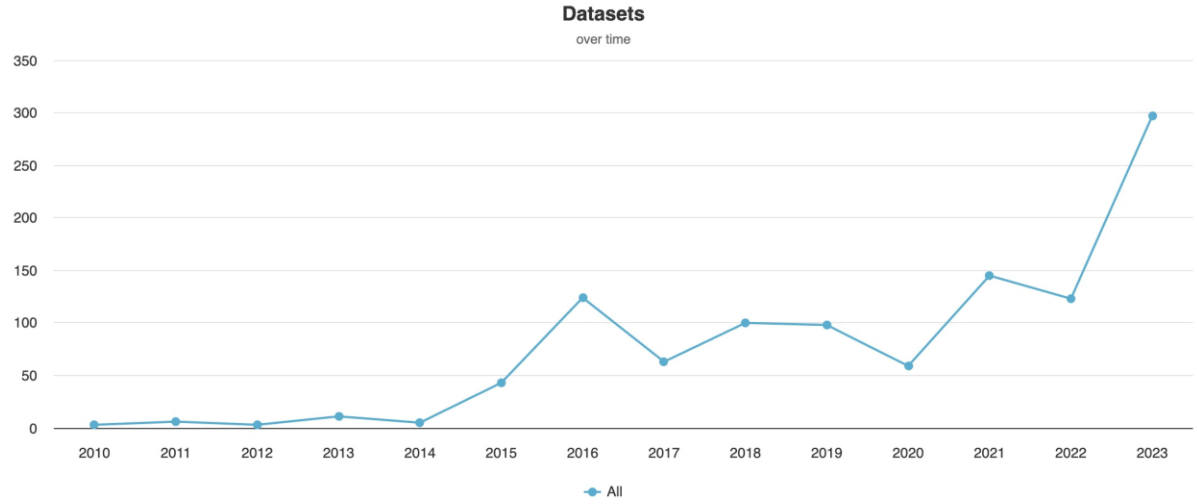

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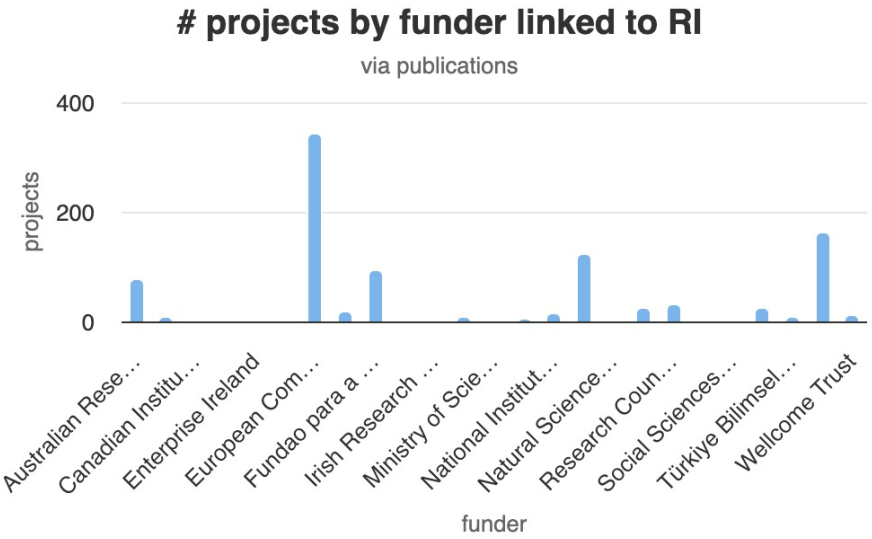

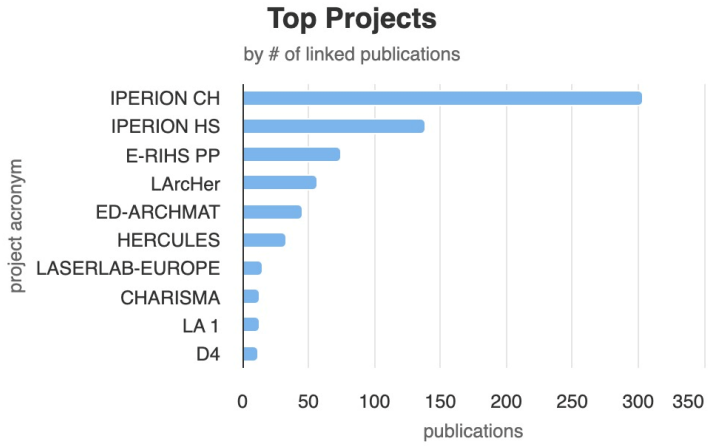

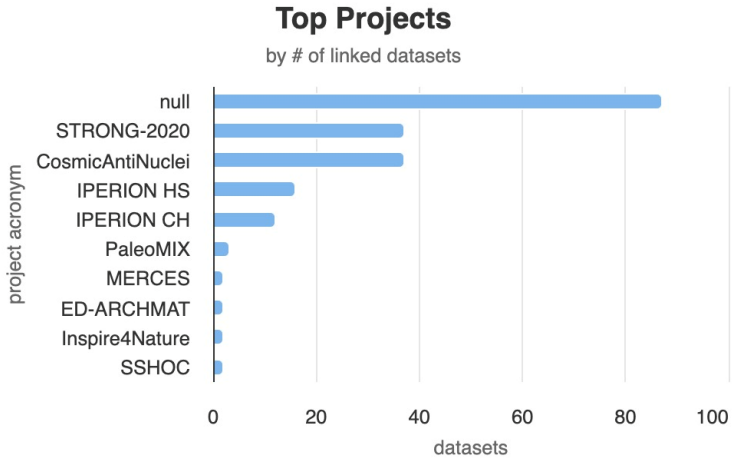

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Grazie per l’attenzione

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