eosc | FAIR-IMPACT
Expanding FAIR solutions across EOSC

FAIR Implementation Workshop : Open Access (OA) publishing in FAIR action plans

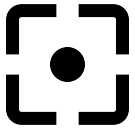
Tuesday 6 February, 10:00 - 12:00 CET
FAIR IMPACT support for National Level Initiatives

Funded by the European Union

Workshop Agenda

Time	Topic	Speaker
15 min	Workshop introduction	Nina GRAU (INRAE)
45 min	Presentation of Open Access in publications	Margo BARGHEER (CRAFT OA)
10 min	Questions	All
40 min	Discussion	All
10 min	Next steps	Nina GRAU (INRAE)

Technical details



- The workshop will be recorded and available on Youtube.

- If you have any questions, please write them in the chat and raise your hand during the question period.

- Please switch off your microphone during presentations.

FAIR-IMPACT

Expanding FAIR Solutions across Europe

Call
HORIZON-INFRA-2021-E OSC-01-05
Enabling discovery and interoperability of federated research objects across scientific communities

Expanding FAIR solutions in Europe

Partly following up on FAIRsFAIR

EU funded project

Coordination and Support Action

10 million euro

36 months, starting 1 June 2022

28 partners and affiliate entities

From 10 EU member states: NL, FI, FR, DK, IT, DE, ES, NO, BE, RO

and the UK

FAIR-IMPACT overall objective

WHAT:
to realise a FAIR EOSC by supporting the implementation of FAIR-enabling practices across scientific communities and research outputs at a European, national, and institutional level;

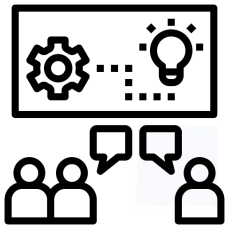
HOW:

- identifying current and emerging components for enabling FAIR (practices, policies, tools & technical specifications);
- translating viable solutions, guidelines and frameworks that have been developed for one domain or research output and supporting their application in others;
- taking the next step in implementation by defining the support, governance, and coordination mechanisms required to ensure the continuous function of FAIR-enabling practices in the EOSC.

Introduction to FAIR national initiatives support programme

A focus on methodology:

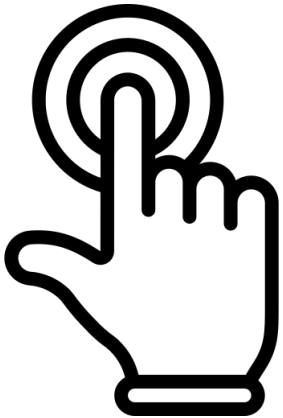
At country level, how can we develop a FAIR implementation **action plan**?



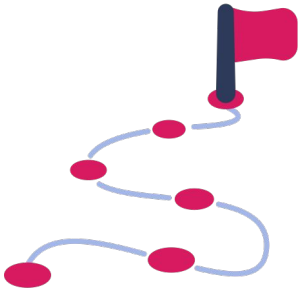
Workshop series on **targeted topics**

Main objective: to draft a FAIR implementation action plan

1. Objectives



2. Actions

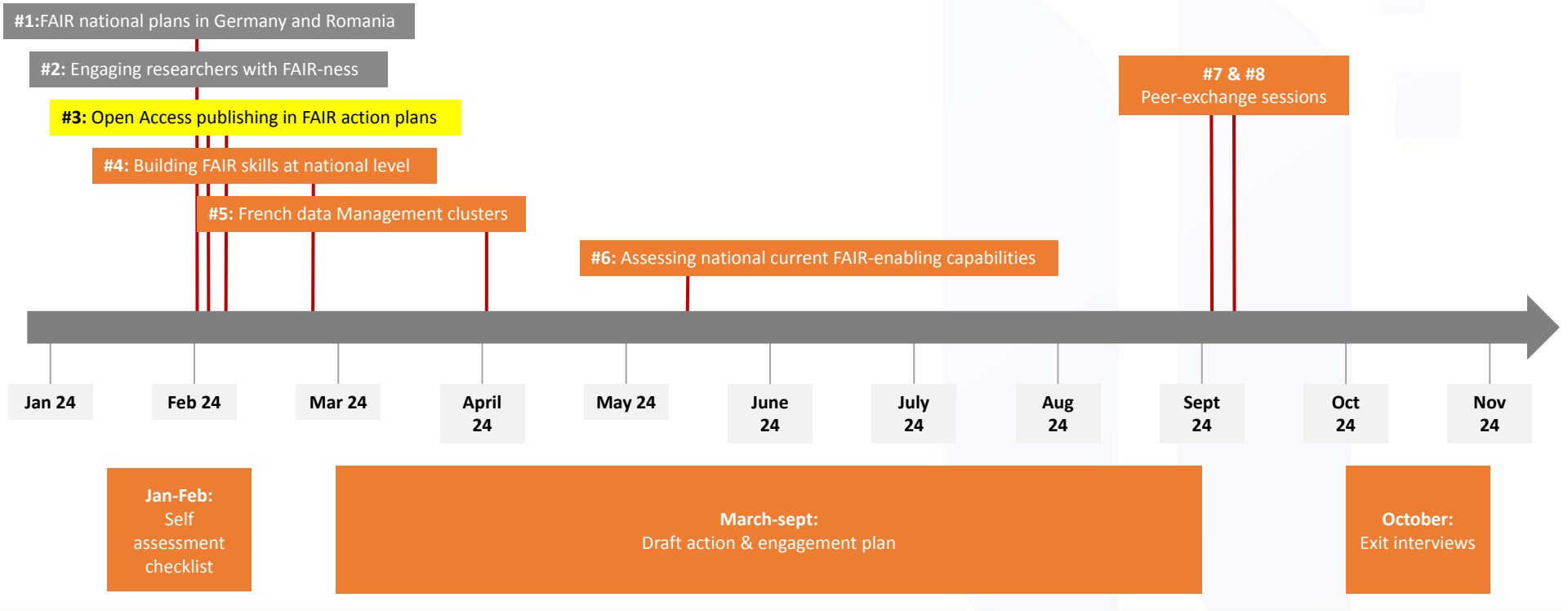


3. Milestones

4. Roles & responsibilities

5. Priority

Workshops detailed planning



Introduction to today's keynote speaker

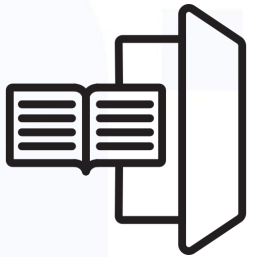
Margo Bargheer
Head of the team for electronic publishing at Göttingen University Library
Expert in University Press, University's repositories and the Diamond open access journal platform

Introduction to today's topic: Open Access publishing in FAIR action plans

OPEN ACCESS

Open Access publication: less financial, legal or technical barriers to accessing it

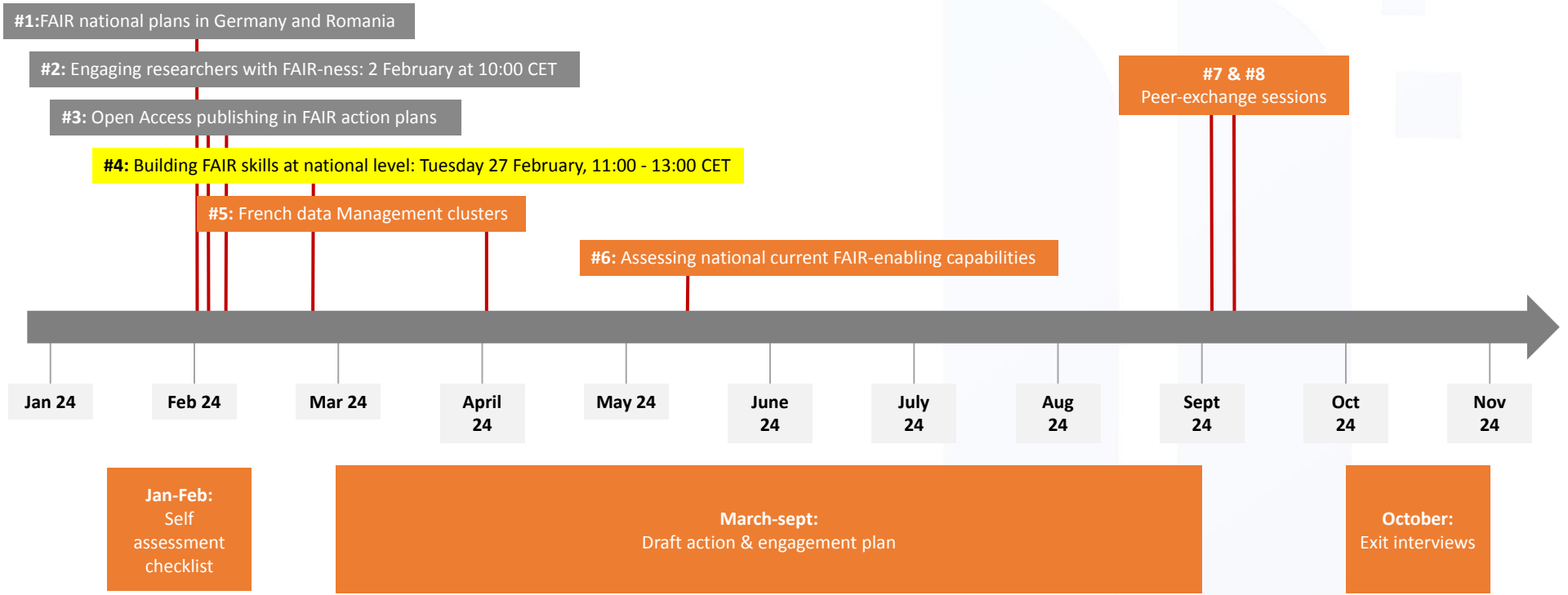
Publications available for different types of readers (researchers, journalists, citizens)



Increases the visibility and reuse of academic results.

Open discussion on the two models

Next steps


#1:FAIR national plans in Germany and Romania
#2: Engaging researchers with FAIR-ness: 2 February at 10:00 CET
#3: Open Access publishing in FAIR action plans
#4: Building FAIR skills at national level: Tuesday 27 February, 11:00 - 13:00 CET
#5: French data Management clusters
#6: Assessing national current FAIR-enabling capabilities
#7 & #8
Peer-exchange sessions
Jan 24
Feb 24
Mar 24
April 24
May 24
June 24
July 24
Aug 24
Sept 24
Oct 24
Nov 24
Jan-Feb: Self assessment checklist
March-sept: Draft action & engagement plan
October: Exit interviews

Open Access Publishing in FAIR Action Plans

FAIR Implementation Workshop :
Open Access (OA) publishing in FAIR action plans

Funded by the European Union

06 | 02 | 2024 by Margo Bargheer

What to expect from today‘s talk

- Brief introduction into the CRAFT-OA project
- What we mean by Diamond Open Access
- Expanding the concept of „research object“ in the EOSC by using a case study from medical research and library science
- FAIR-ifying publications
- FAIR action plan potentials in Germany

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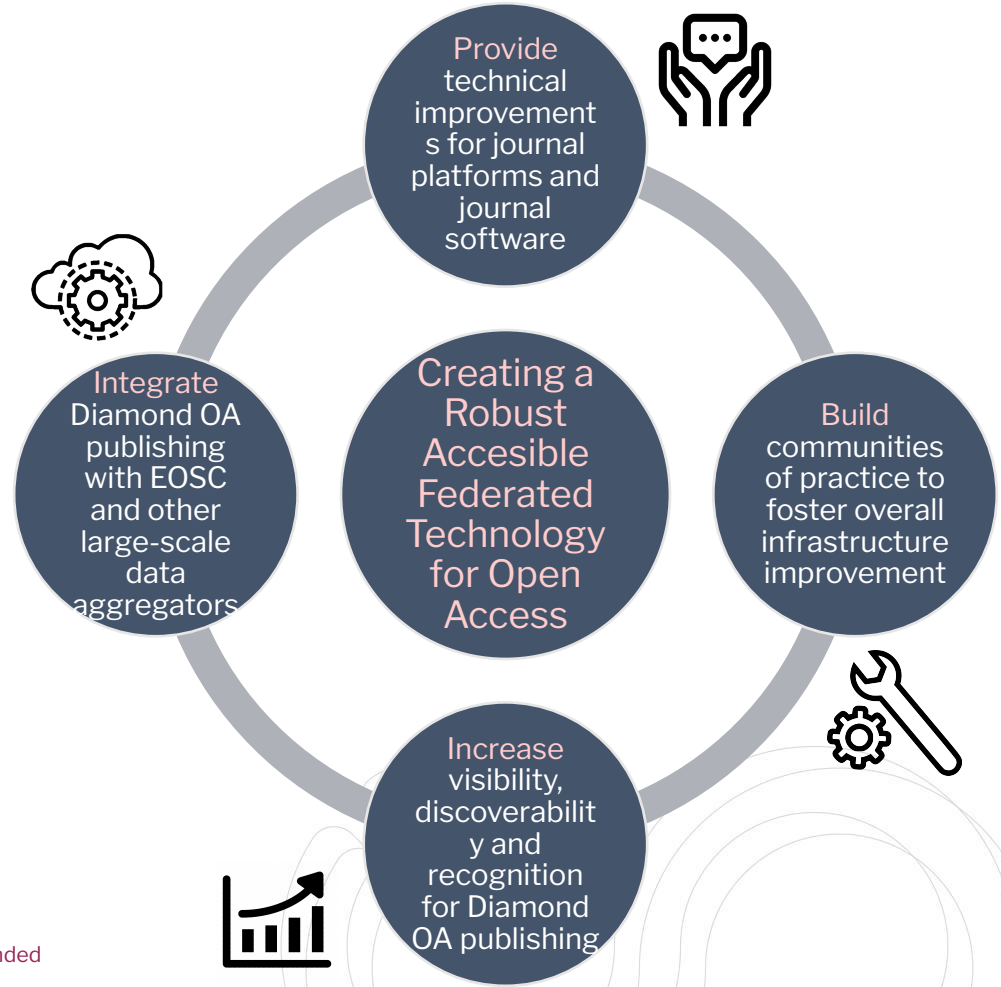
CRAFT-OA

- Start 01 Jan 2023
- End 31 Dec 2025
- Budget of ~5 mill EUR
- 23 Partners from 14 European countries
  (plus affiliated entities)
- Göttingen University Library is coordinator on behalf of OPERAS Community
- Partner project DIAMAS
  (joint advisory board)
- Consortium consists of experienced stakeholders and service providers in open science and open access scholarly publishing, especially around institutional Diamond* Open Access, IPSP (institutional publishing service providers)



*Diamond OA: institution-funded publishing infrastructure for open access publications, no author-facing charges)

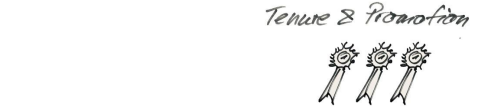
Key Contributions to EOSC SRIA

- Contribution of Project CRAFT-OA

1

Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'

- Publishing "done right" is intrinsic to a paradigm shift towards open science
- Publishing under institutional governance as the "lab" for bringing open science to the public
- Rewards for open science require recognition -> no information loss during publishing -> platforms fit for purpose
- Technical maturity as an economy of scale to free potential for research



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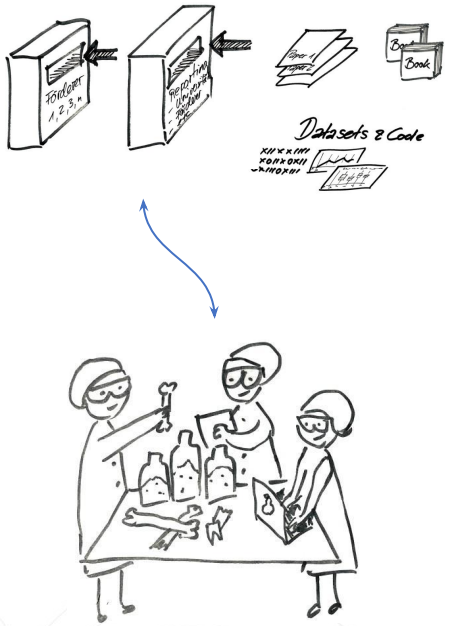
Key Contributions to EOSC SRIA

- Contribution of Project CRAFT-OA

2

Enable definition of standards, deve-lopment of tools & services, to allow researchers to find, access, reuse & combine results

- Publishing “done right” enables FAIR
- Interoperability of platforms requires standardised and enriched (meta)data
- Multilingualism should not be a blocker to mash and reuse
- Clear license situation enables reuse



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Key Contributions to EOSC SRIA

- Contribution of Project CRAFT-OA

3

Establish a sustainable and federated infrastructure enabling open sharing of scientific results

- Publishing “done right” enables federated infrastructures and shared knowledge
- Science should define the features of its publishing system to bring a cultural shift towards sharing
- Technical maturity is prerequisite for federated infrastructures
- Technical maturity is prerequisite for sustainability

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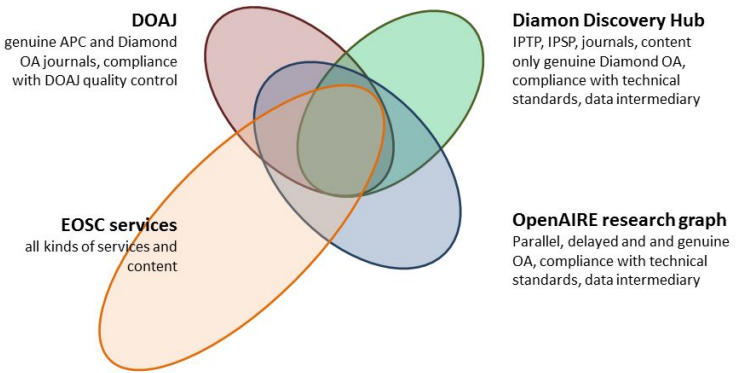
Key impacts and deliverables

- Enabling smaller journals to be indexed in widest range of data aggregations
- Clear technical standards as a roadmap for technical maturity, interoperability and sustainability
- Living Handbook for journal platform operation
- two summer schools for journal managers with reusable curriculum
- Building networks of IPSPs
- Diamond Discovery Hub to enhance visibility and recognition of Diamond Open Access content, journals, platforms and service provider
- Onboarding of Diamond Open Access IPSPs into the EOSC
- Building the Diamond Open Access capacity centre



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CRAFT-OA collaborates and aligns with

- **Partners of the Consortium**
- OpenAIRE AMKE (research graph, tools, data enhancement, EOSC onboarding)
- CoalitionS (policy building, PlanS)
- Directory of Open Access Journals (basic publishing infrastructure)
- OPERAS AISBL (sustainability, connection to HSS communities)
- EGI (AAI infrastructure, EOSC onboarding)
- Association of European University Presses (scholarly communities, networking editors and publishers
- EOSC Association

- **Representatives in the joint advisory board**
- PKP (release management of OJS, community building)
- Lyrasis (release management of Dspace, community building

- **Sister projects and initiatives**
- Project DIAMAS – Developing institutional Open Access Publishing Models to Advance Scholarly Communication, with EQSIP - Extensible Quality Standard for Institutional Publishing)
- Project PALOMERA– Policy Alignment of Open Access Monographs in the European Research Area
- And many mor

Vision? Making Institutional Diamond Open Access a default!

- Creating a trusted and federated system for scholarly publishing,
- sustainable and governed by science itself
- Contributing to open science paradigms,
- Making FAIR the default in open access publishing
- Bringing institutional publishing and HSS into the EOSC

European Council
Council of the European Union

Home > Press > Press releases

Council of the EU Press release 23 May 2023 10:27

Council calls for transparent, equitable, and open access to scholarly publications

Today the Council has adopted conclusions on the 'high quality, transparent, open, trustworthy and equitable scholarly publishing', in which it calls for immediate and unrestricted open access in publishing research involving public funds.

If we really believe in open science, we need to make sure that researchers can make their findings available and re-usable and that high-quality scientific articles are openly accessible to anyone that needs to read them. This should be particularly the case for research that benefits from public funding: what has been paid by all should be accessible to all.

— Mats Persson, Swedish Minister for Education, Ministry of Education and Research

NOTES that the current system of scholarly publishing is operated by various for-profit and not-for-profit organisations and RECOGNISES with concern that the increasing costs of paywalls for access to scientific publications and for scholarly publishing cause inequalities and are becoming unsustainable for public research funders and institutions accountable for the spending of public funds, decreasing funding available for research;

HIGHLIGHTS the importance of not-for-profit, scholarly open access publishing models that do not charge fees to authors or readers and where authors can publish their work without funding/institutional eligibility criteria; NOTES the variety of models that do not depend on article processing charges or similar per-unit charges and STRESSES the importance of supporting the development of such models led by public research organisations;

CRAFT-OA | eosc

Case study „Systematic Review“

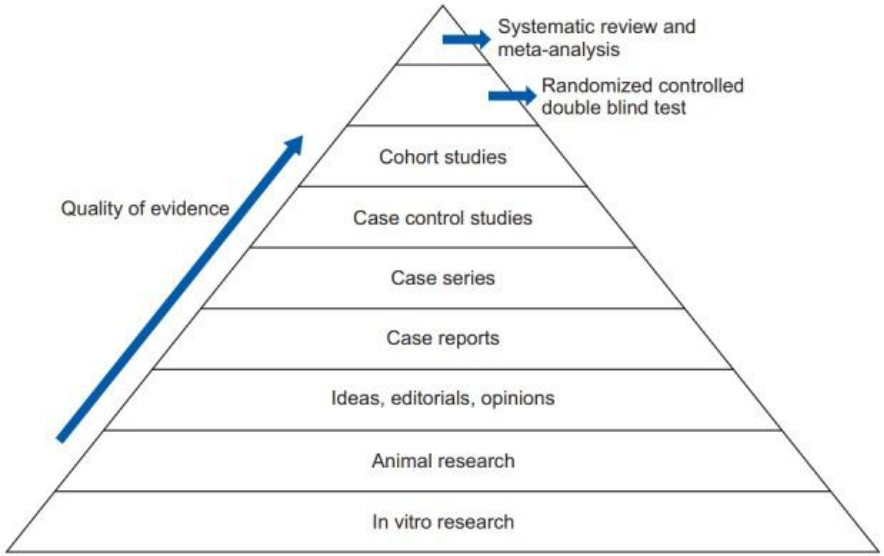

Fig. 1. Levels of evidence.

Ahn E, Kang H. Introduction to systematic review and meta-analysis. Korean J Anesthesiol. 2018 Apr;71(2):103-112. doi: 10.4097/kjae.2018.71.2.103. Epub 2018 Apr 2. PMID: 29619782; PMCID: PMC5903119.

Research Question

What barriers exist in **science communication** about research involving **AE**?

Search String (13.10.2023) [1]

("science communicat*" OR "science journali*" OR "science translation"
OR (("science" OR "research") NEAR/2 ("populari$ation" OR "outreach"))
OR ("public" NEAR/2 ("outreach" OR "communicat*" OR "engage*" OR "involvement" OR "understand*")))
AND (("animal$" OR "organism$" OR "mouse" OR "mice" OR "fish" OR "rat$" OR "cattle" OR "amphibian$" OR "carnivore$" OR "livestock" OR "primate$" OR "fundamental")
NEAR/1 ("research*" OR "experiment*" OR "test*" OR "model*" OR "lab*" OR "toxic*" OR "conservation")
OR "GM technolog*" OR "xenotransplant*")

Databases

Search service	Databases	Search fields	Results	References
Web of Science	Core Collection & MEDLINE	Topic (title, abstract, indexing)	270	(Davis Stylinski et al., 2020; Fage-Butler et al., 2022; Fraaije et al., 2022)
EBSCOhost	PsycInfo & ERIC	Title OR abstract OR subject terms	32	(Kranz et al., 2022; Nguyen & Tran, 2019)
Scopus		[planned, not yet tested]		(Fage-Butler et al., 2022; Fraaije et al., 2022)

Screening criteria

Inclusion	1. The research referred to in the paper involves animal experimentation.[2] 2. External science communication[3] about said research is addressed. 3. The paper is published in English.
Exclusion	4. Only internal science communication is addressed (e.g., Henderson et al., 2020).

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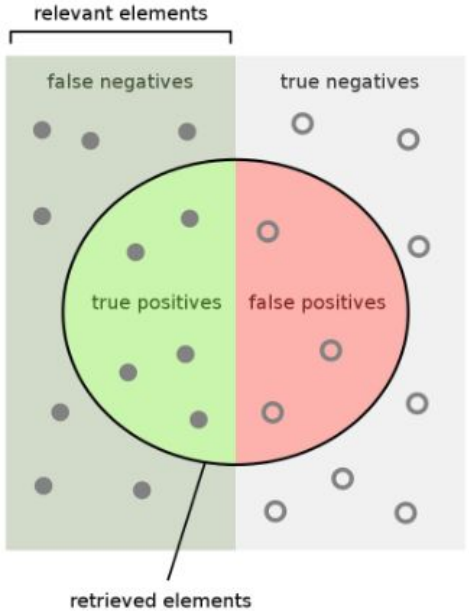
Strategy for including keywords

Keywords are compiled by scoping the literature (e.g., Treue et al., 2023 for animals used in research). They are then tested in Web of Science. Two metrics are considered when deciding which keywords are included into the search string: 1) they must improve **recall**, i.e., yield additional relevant papers and 2) they must not worsen **precision** too much, i.e., yield way more irrelevant papers than relevant ones. The relevance of papers are determined by the screening criteria.



How many retrieved items are relevant?

$$\text{Precision} = \frac{\text{true positives}}{\text{retrieved elements}}$$

How many relevant items are retrieved?

$$\text{Recall} = \frac{\text{true positives}}{\text{relevant elements}}$$

('Precision and Recall', 2023)

References

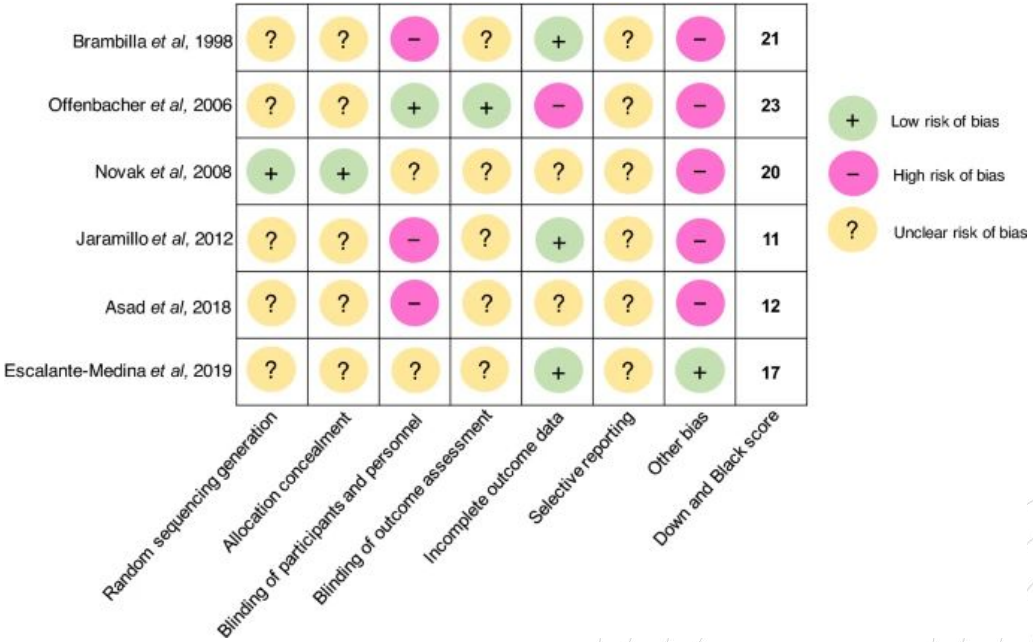
Davis Stylinski, C., Peterman, K., Phillips, T., Linhart, J., & Becker-Klein, R. (2020). Assessing science inquiry skills

Table 1.

The Cochrane Collaboration's Tool for Assessing the Risk of Bias [28]

	produce comparable groups.	
Allocation concealment	Describe the method used to conceal the allocation sequence in sufficient detail to determine whether intervention allocations could have been foreseen in advance of, or during, enrollment.	Selection bias (biased allocation to interventions) due to inadequate concealment of allocations prior to assignment.
Blinding	Describe all measures used, if any, to blind study participants and personnel from knowledge of which intervention a participant received.	Performance bias due to knowledge of the allocated interventions by participants and personnel during the study.
	Describe all measures used, if any, to blind study outcome assessors from knowledge of which intervention a participant received.	Detection bias due to knowledge of the allocated interventions by outcome assessors.
Incomplete outcome data	Describe the completeness of outcome data for each main outcome, including attrition and exclusions from the analysis. State whether attrition and exclusions were reported, the numbers in each intervention group, reasons for attrition/exclusions where reported, and any re-inclusions in analyses performed by the review authors.	Attrition bias due to amount, nature, or handling of incomplete outcome data.
Selective reporting	State how the possibility of selective outcome reporting was examined by the review authors, and what was found.	Reporting bias due to selective outcome reporting.
Other bias	State any important concerns about bias not addressed in the other domains in the tool.	Bias due to problems not covered elsewhere in the table.
	If particular questions/entries were prespecified in the reviews protocol, responses should be provided for each question/entry.	

Assessing knowledge



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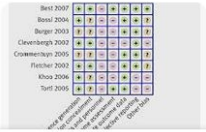
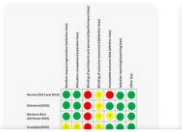
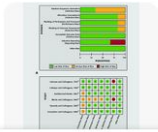
chapter 8 | functional dyspepsia | cochrane library | physical activity | physical exercise | quality assessment | cognitive function | cohort studies

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ResearchGate — The Cochrane Collabo...
ResearchGate — Results of the Cochra...
Public Library of Science - Figshare — Risk of bias in randomized studies as ...
ResearchGate — Cochrane Collaboration's tool for assessing risk ...
Radboudumc — Appendix D. Cochrane R...
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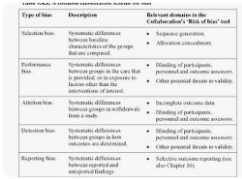

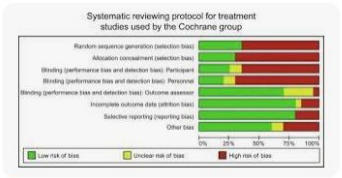

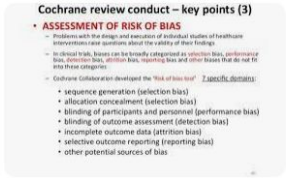

ScienceDirect.com — Cochrane Collaboration - an over...
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Cochrane Methods — Introducing a revised tool for assessing ...
ScienceDirect.com — Cochrane Collaboration - an overview | ScienceDire...
CBT Watch — Cochrane risk of bias Archives - CBT Watch
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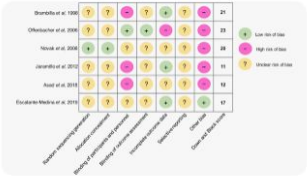
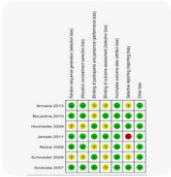
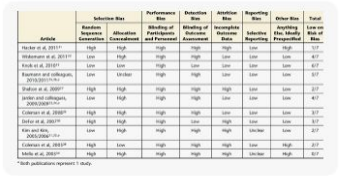

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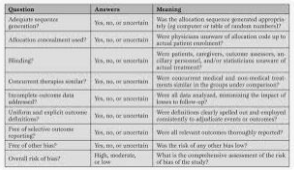
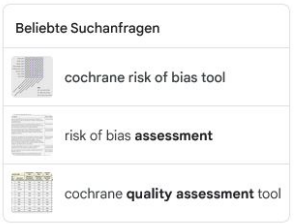

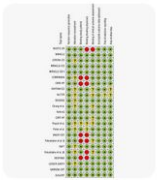
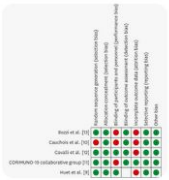
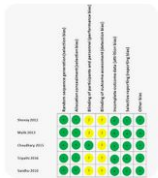

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Organising Knowledge to make it shippable

- Collections
- Libraries
- Repositories
- Registries
- Indexes
- Graphs

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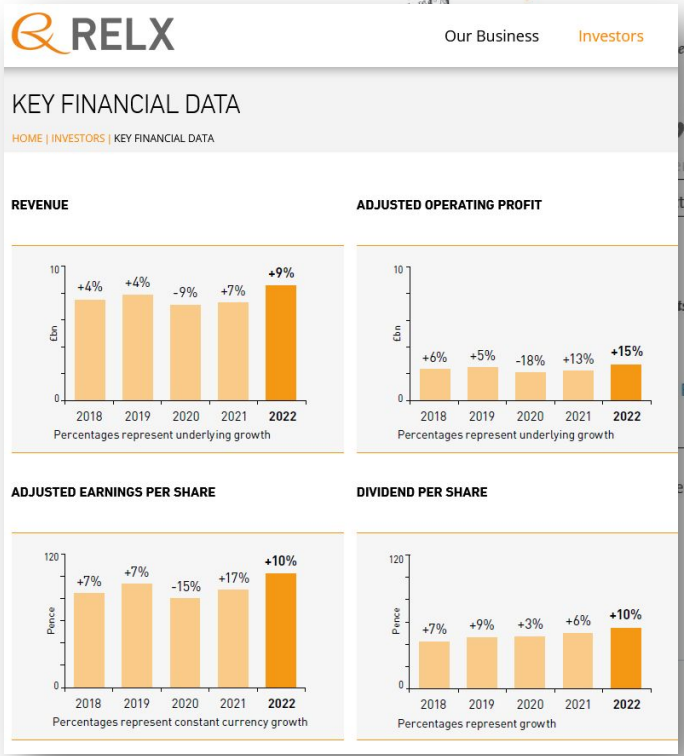
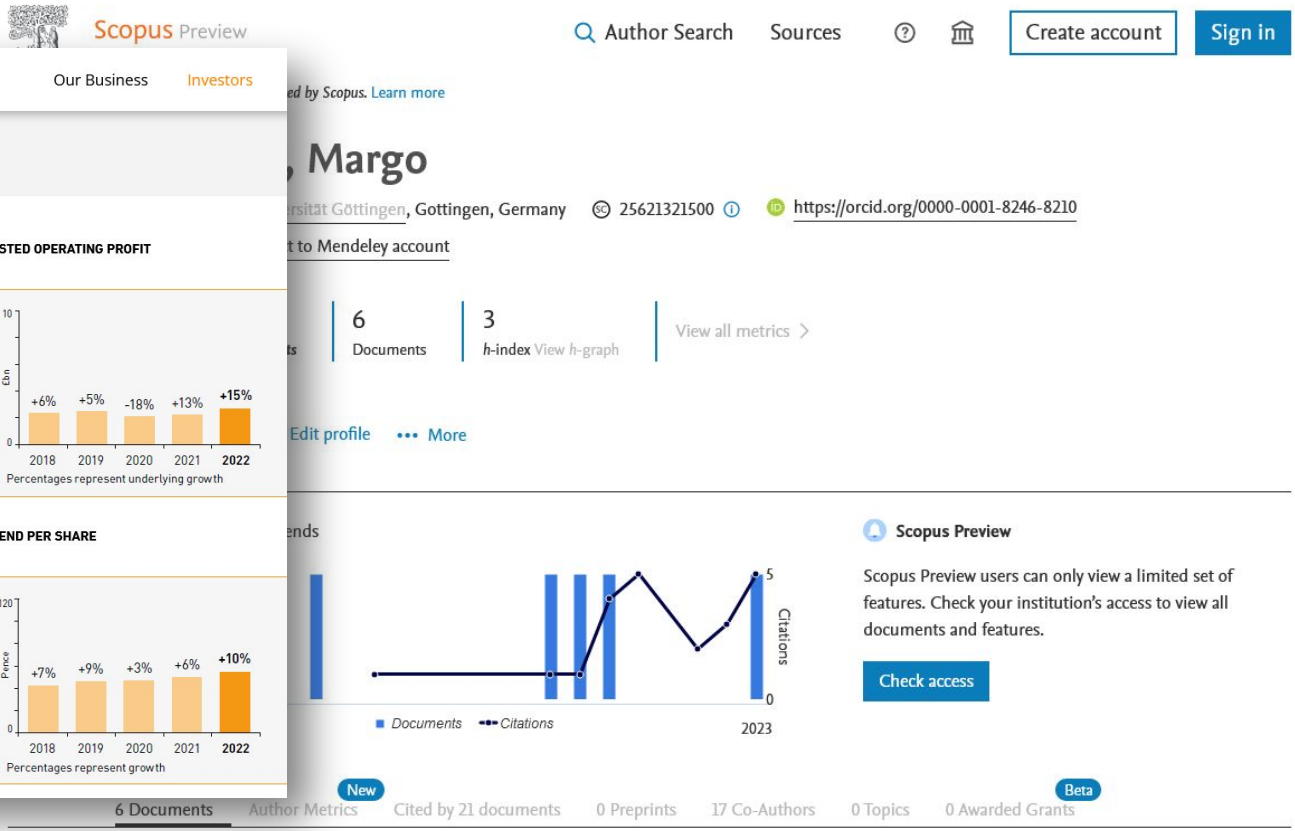
The indexing industry





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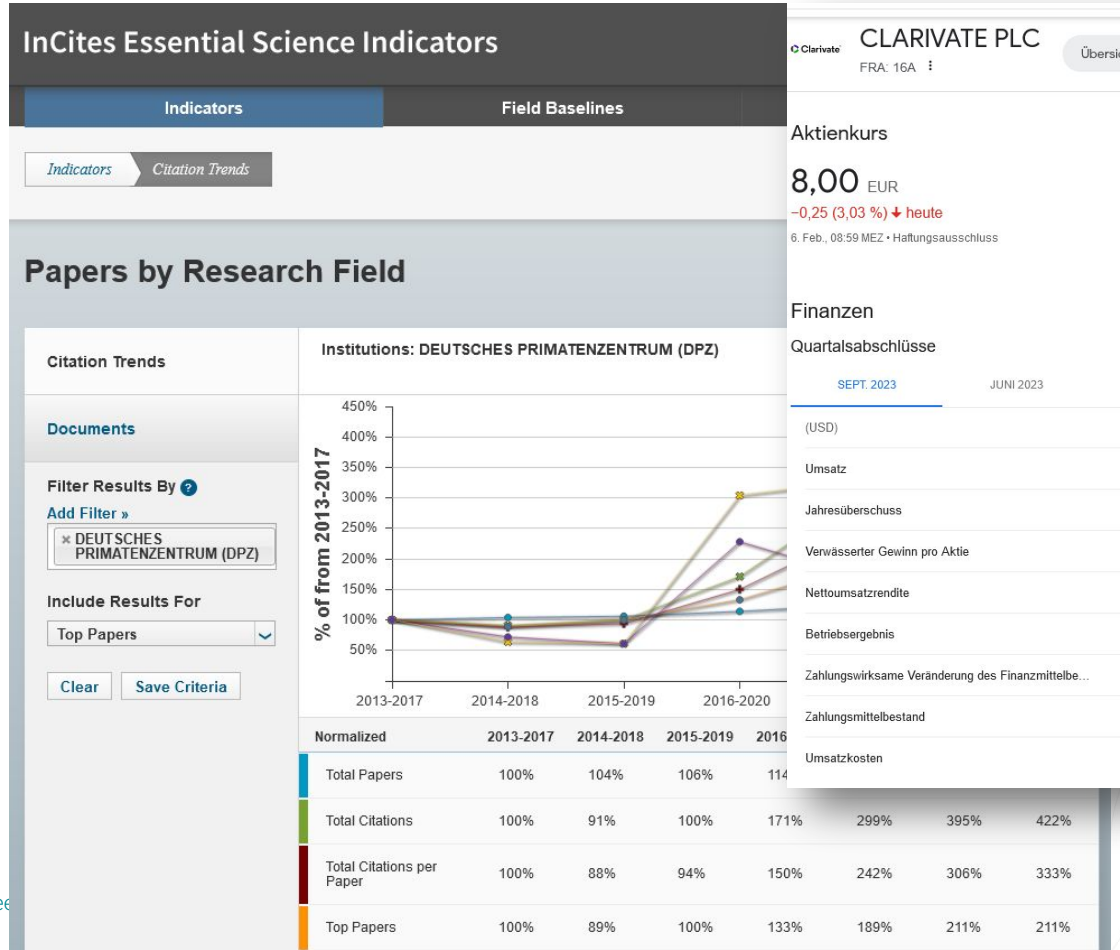
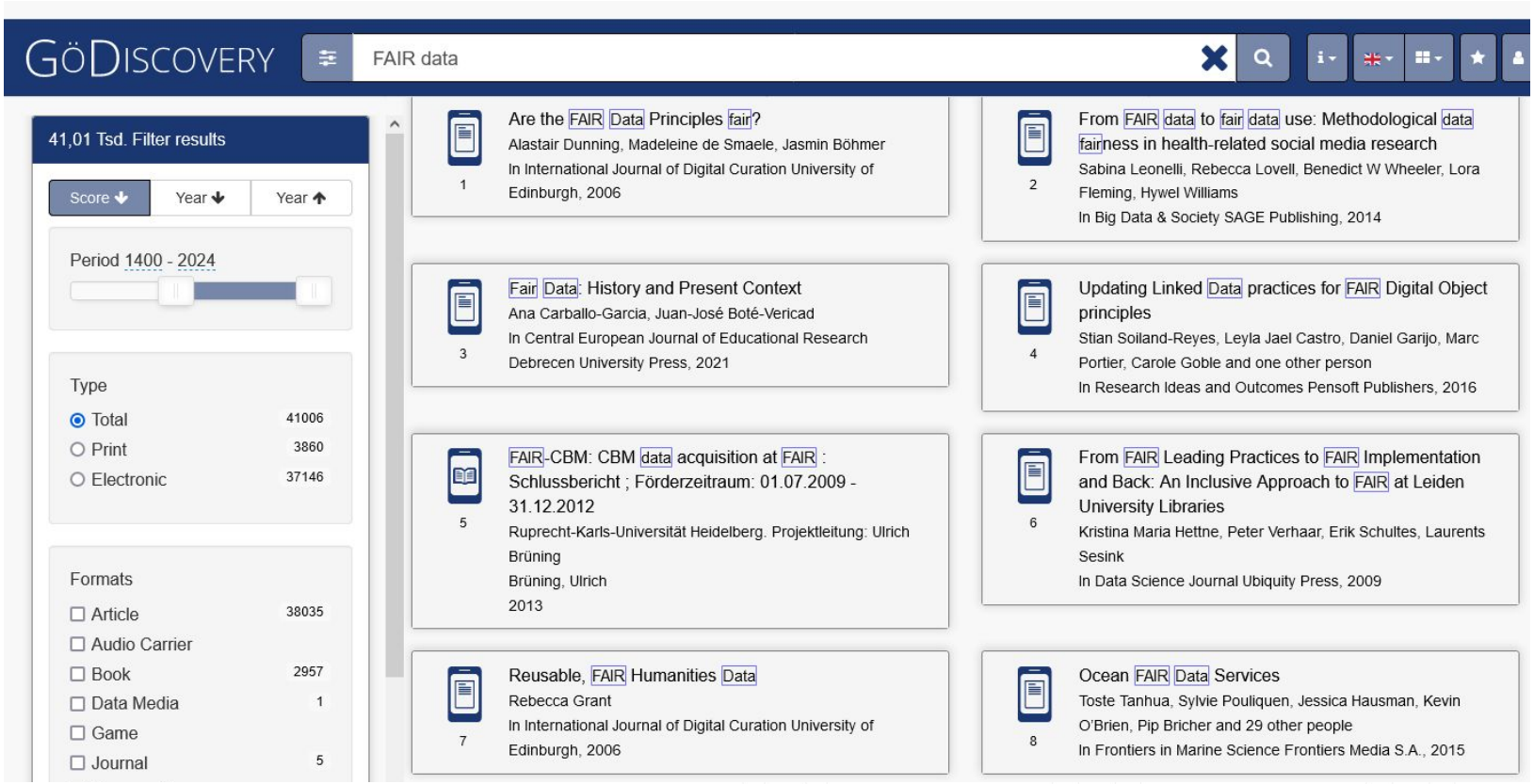
The indexing industry



Library Approach



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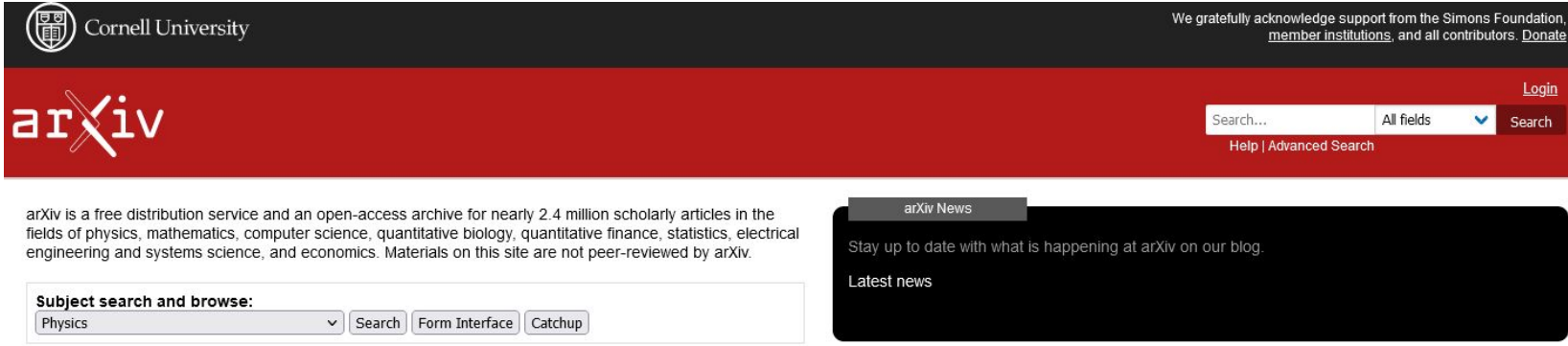
Repositories



What are graphs for?

- https://orkg.org/

What is the OpenAIRE Graph?

The OpenAIRE Graph is a free and open resource that brings together and interlinks hundreds of millions of metadata records from over 70k data sources trusted by researchers. The project broke ground in 2012 being one of the first research knowledge graphs and has now grown into one of the world's largest and is the authoritative source for the European Open Science Cloud (EOSC). Here, researchers, communities, institutions, companies, and citizens thrive by freely sharing research products and related information.

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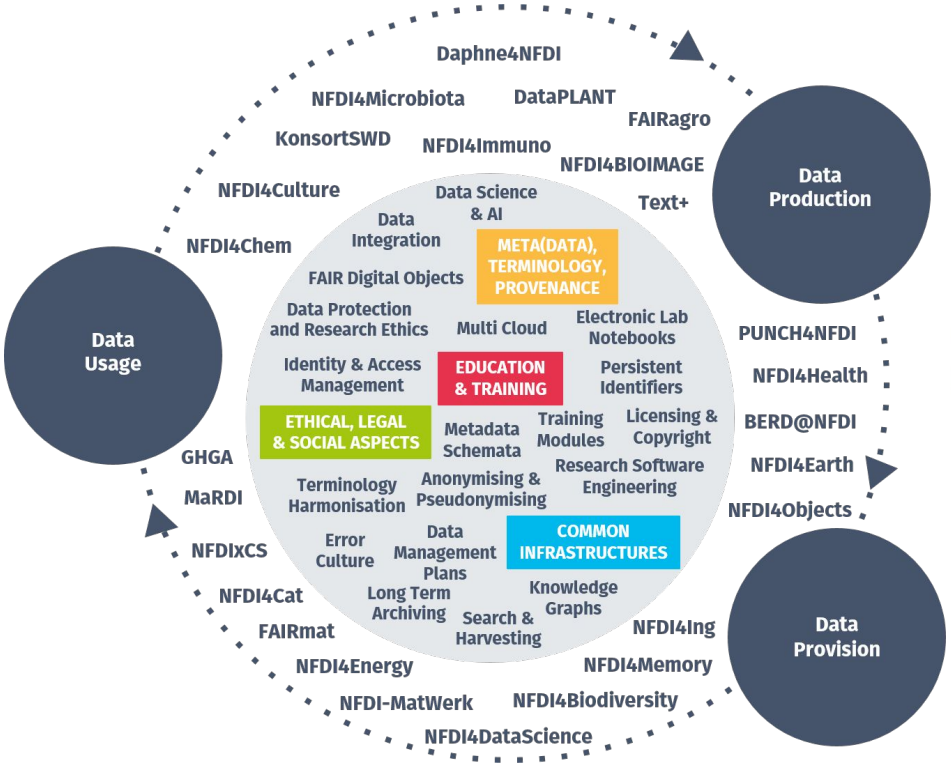
Nationale Forschungsdateninfrastruktur NFDI



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- German Research Foundation launches 9 mill EUR call to strengthen Diamond Open Access
- National Ministry for Research and Education with clear Open Access Policy

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