

Das Potenzial offener Infrastrukturen für Innovationen in der Bibliothekssuche am Beispiel von Open Knowledge Maps

<u>Peter Kraker</u>, <u>Doron Goldfarb</u>, Lars Kaczmirek, Chris Schubert, Franziska Krauss & Oliver Lehner

- 1. Österreichischer Bibliothekskongress
- 5. Mai 2023







Science



SARA GIRONI CARNEVALE

Scientists are drowning in COVID-19 papers. Can new tools keep them afloat?



Articles

About 210.000 results (0,03 sec)

Any time

Since 2020 Since 2019 Since 2016 Custom range...

Sort by relevance

Sort by date

include patents

include citations

Create alert

COVID-19: consider cytokine storm syndromes and immunosuppression

P Mehta, DF McAuley, M Brown, E Sanchez... - The Lancet, 2020 - thelancet.com As of March 12, 2020, coronavirus disease 2019 (COVID-19) has been con firmed in 125 048 people worldwide, carrying a mortality of approximately 3. 7%, 1 compared with a mortality rate of less than 1% from influenza. There is an urgent need for effective treatment ... ☆ 切 Cited by 586 All 6 versions

Presumed asymptomatic carrier transmission of COVID-19

Y Bai, L Yao, T Wei, F Tian, DY Jin, L Chen, M Wang - Jama, 2020 - jamanetwork.com Methods| In January 2020, we enrolled a familial cluster of 5 patients with fever and respiratory symptoms who were admitted to the Fifth People's Hospital of Anyang, Anyang, China, and 1 asymptomatic family member. This study was approved by the local ...

☆ 切り Cited by 693 All 5 versions

COVID-19 and Italy: what next?

A Remuzzi, G Remuzzi - The Lancet, 2020 - Elsevier

The spread of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has already taken on pandemic proportions, affecting over 100 countries in a matter of weeks. A global response to prepare health systems worldwide is imperative. Although containment ...

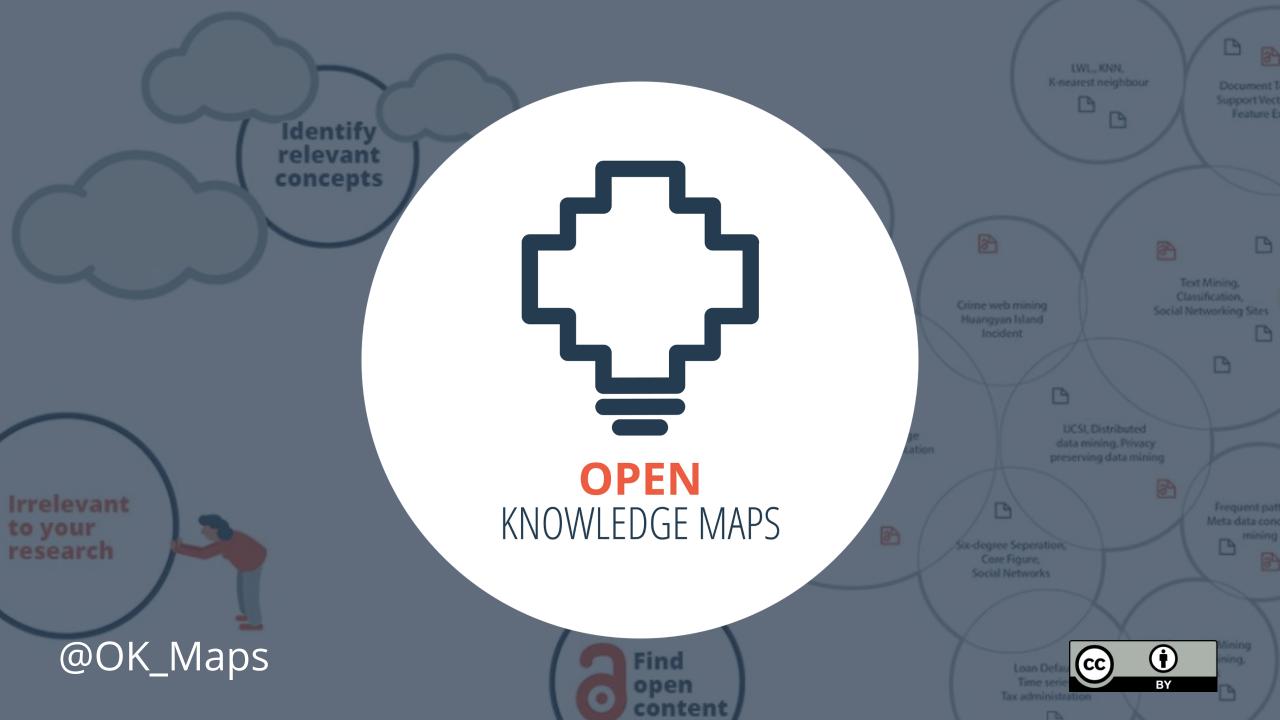
☆ 55 Cited by 476 All 35 versions

An interactive web-based dashboard to track COVID-19 in real time

E Dong, H Du, L Gardner - The Lancet infectious diseases, 2020 - thelancet.com In December, 2019, a local outbreak of pneumonia of initially unknown cause was detected in Wuhan (Hubei, China), and was quickly determined to be caused by a novel coronavirus, 1 namely severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The outbreak ...

☆ 切 Cited by 572 All 7 versions





Who we are

Open Knowledge Maps

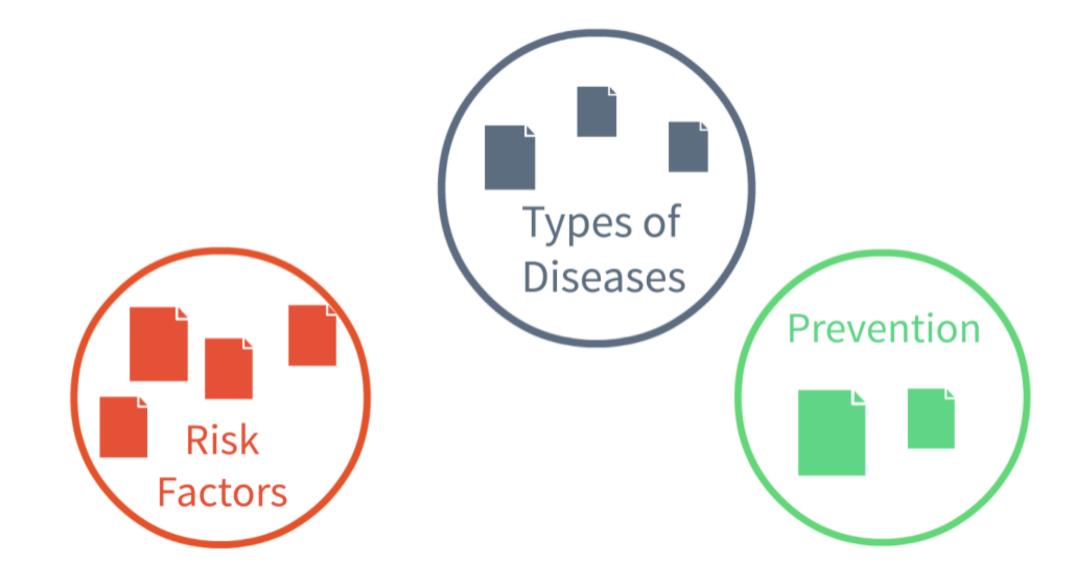
is a charitable non-profit organization

dedicated to dramatically improving the visibility of scientific knowledge

for science and society alike



Overview of heart diseases



240+ million documents

n About Team

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Projects

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Get an overview - Find papers - Identify relevant concepts



- O PubMed (life sciences)
- BASE (all disciplines)

Refine your search ~

digital education

Try out: digital education climate change AND impact

What is Open Knowledge Maps?

https://openknowledgemaps.org

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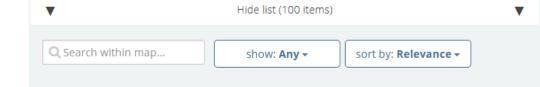
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Overview of digital education (1)

100 most relevant documents (51 open access) Source: BASE Until 16 Feb 2021 Document types High metadata quality





Conceptualizing digital literacies and digital ethics for sustainability education

stain-

S Brown in Brown, S 2014, 'Conceptualizing digital literacies and digital ethics for sustainability education 'International Journal of Sustainability in Higher Education, vol 15, no. 3, pp. 280-290. DOI:10.1108/IJSHE-08-2012-0078 (2014-08-14)

[link]: https://www.research.manchester.ac.uk/portal/en/publications/conce...

Purpose – The purpose of this paper is to discuss the need for integrating a focus on digital literacies and digital ethics into sustainability education, proposing a conceptualization of these for sustainability education. Design/methodology/approac...

Area: Rethinking digital literacy, Digital citizenship, Digital literacies

open access 🜓

Digital Education And Learning: The Growing Trend In Academic And Business Spaces—An International Overview



LINK %

P. K. Paul, P. S. Aithal (2018)

[doi]: https://doi.org/10.5281/zenodo.1292856

Abstract; The world becomes Digital day by day and thus activities, features and sectors and different spaces are highly associated with Digital Tools, Techniques and Technologies. Education domain becomes highly technology enabled in recent past an...

Area: Digital natives, Digital technology, Digital education revolution

rch About Team

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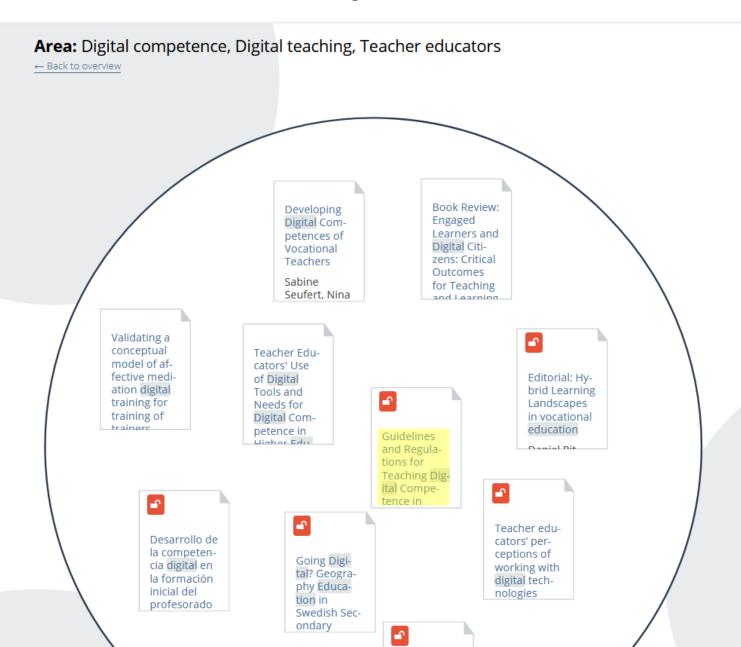
Projects

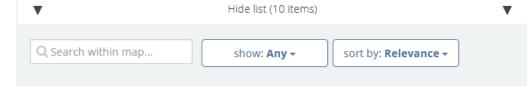
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Validating a conceptual model of affective mediation digital training for training of trainers (TOT) in education through expert reviews

Siti Nurhazzalilla Omar, Sobihatun Nur Abdul Salam, Fauziah Abdul Rahim (2019)

[link]: http://repo.uum.edu.my/26995/

Training on affective mediation to TOT using digital tool is needed to motivate trainers to learn. However, to develop a digital training tool that will meet the training's objectives has require a model to be based on. Thus, this paper describes the...

Area: Digital competence, Digital teaching, Teacher educators



Guidelines and Regulations for Teaching Digital Competence in Schools and Teacher Education: A Weak Link?

Bård Ketil Engen, Tonje Hilde Giæver, Louise Mifsud in *Nordic Journal of Digital Literacy, Vol 10, Pp 69-83 (2015)* (2015-01-01T00:00:00Z)

[link]: https://doaj.org/article/141634970a3547bba0b28dd852322600

Abstract Teacher education has recently been criticised for not fulfilling its obligation to adequately prepare teachers to utilise digital tools in the classroom. In this paper, we raise the question of why Norwegian teacher education does not prepa...

Area: Digital competence, Digital teaching, Teacher educators

open access 🗗

LINK %



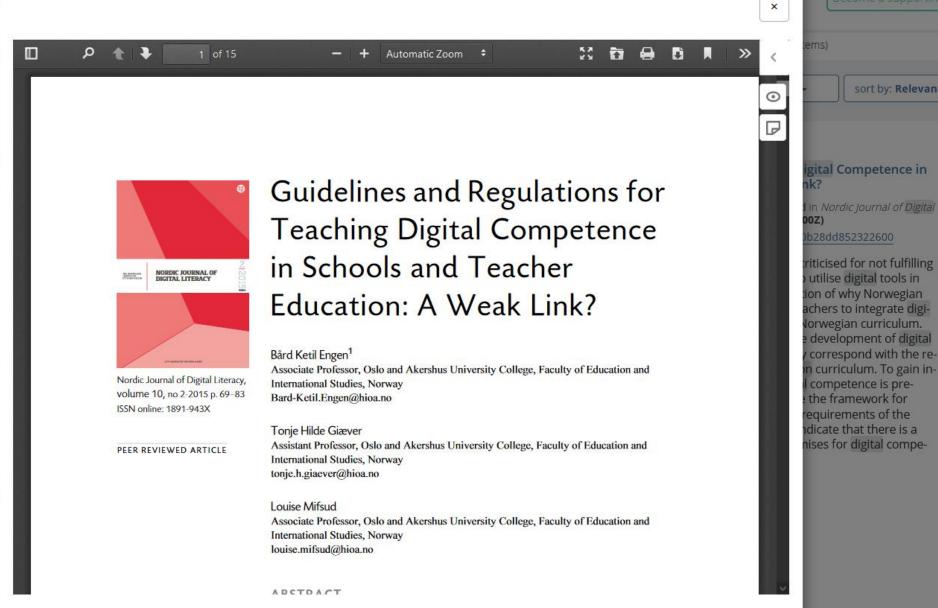
Area: Digital competence

← Back to overview

Validating a model of affective mediation digital training of



la competencia digital en la formación



sort by: Relevance igital Competence in riticised for not fulfilling utilise digital tools in ion of why Norwegian

Advantages



How it works



An Open Knowledge Maps visualization presents you with a **topical overview** for your search term. It is **based on the 100 most relevant documents** from either **BASE** or **PubMed** for your search term.



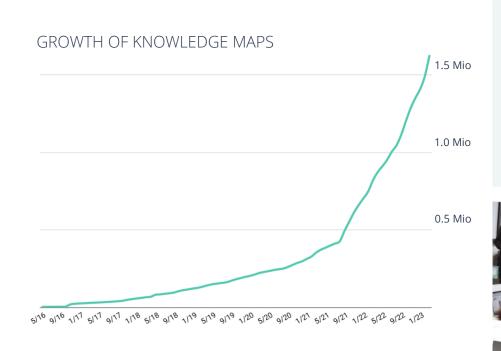
We use **text similarity** to create the knowledge maps. The algorithm groups those papers together that have more words in common in the metadata.

The journey so far

We are the largest visual search engine for research







1.5+ million knowledge maps created

100,000+ monthly visitors

5000+ participants in workshops



nature













AWARDS





All of our services are free & open



Our offering includes:

- ✓ Innovative search and discovery services
- ✓ Integrations for BASE, PubMed, and OpenAIRE
- ✓ A wide range of training activities and materials
- Our award-winning visualization software
- ✓ Community support & engagement programs
- ✓ Institutional integration via Custom Services











Custom Services



Custom Services in a nutshell

Enable 3rd parties to embed Open Knowledge Maps services in their own discovery systems

Co-created with our supporting members and community

Integrators can set individual parameters, including the ability to restrict knowledge maps to their own data sources

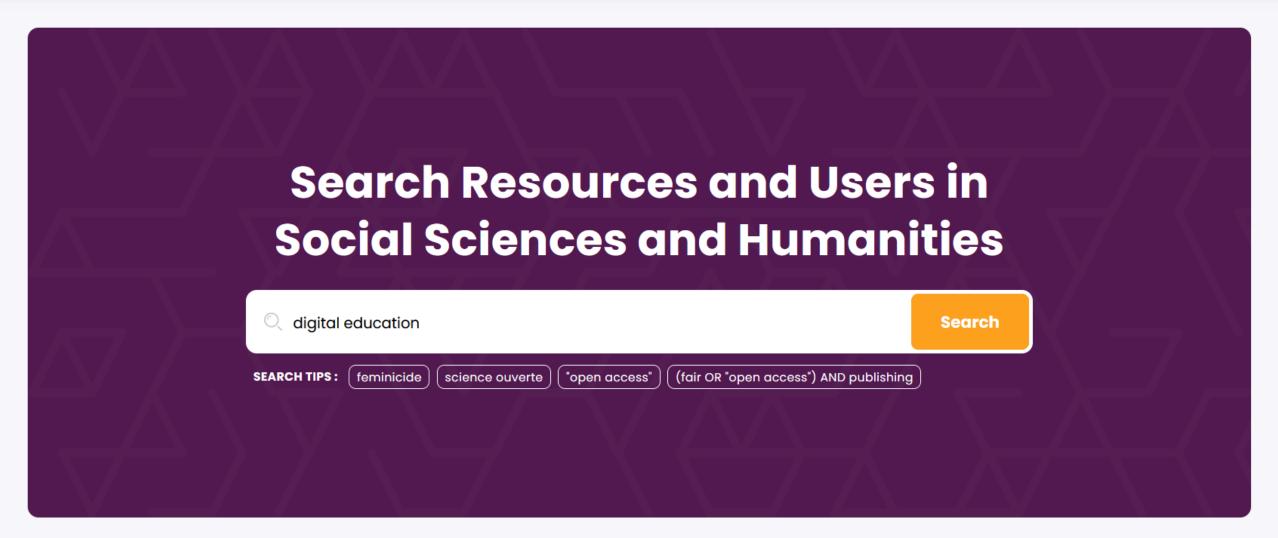
Available as easy-to-install cloud components







Sign Up





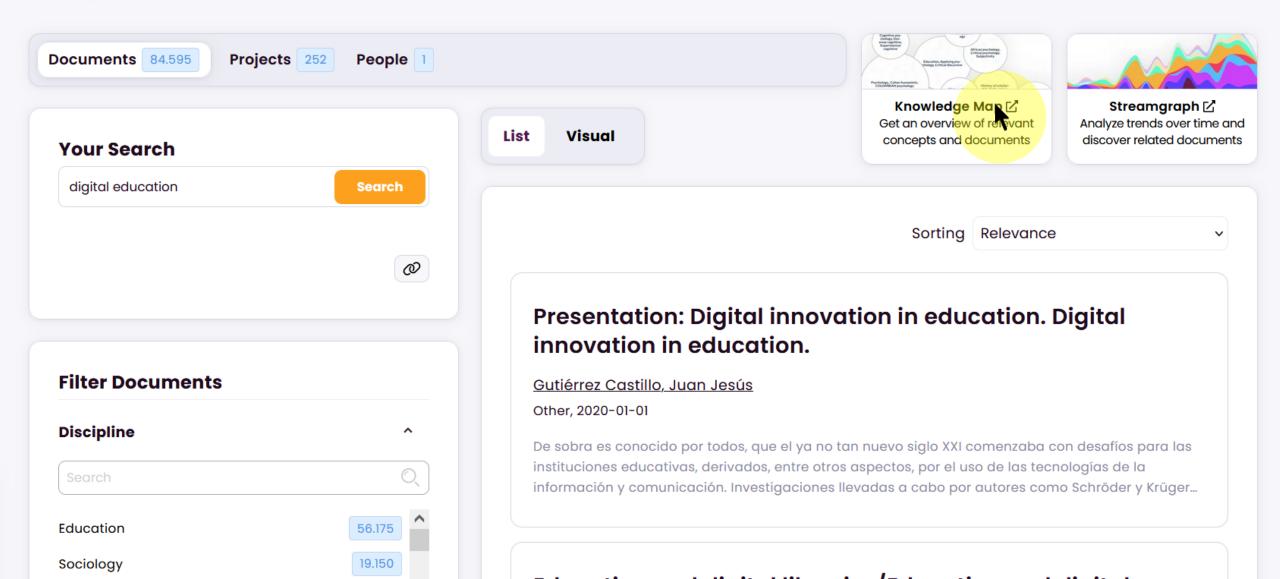






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84.848 results





55 Cite

Home About GoTRIPLE Membership Disciplines Crowdfunding Trust Building System





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Knowledge Map of digital education

100 most relevant documents Data source: GoTrip... 1 Jan 1802 - 28 Apr 2023 Document types All languages Data quality 1 More information

GoTriple (via BASE) continuing education, Digital citizenship,... **Digital** health,... Design Digital compeeducatences, Ukrainian tion,.. society, Digital Digital citiaccessibility zenship innovations, Digi-Digital transtal equal... formation, Cognitive abil-Online educaity, Digital Digital litertion, Digital broadcasting Digital education gov acy, Digital arts experiernance, Academic storytelling,... ence, Digital leadership, Digital di-Teacher edudiet dactics cation reform, Professional... Digital skills, Digital Confirmatory transformafactor analy-Student tion sis, Digital teachers' habits attitude,... Personal data pro-Autontection,... omy, Digital...

V Overview (100 documents) Q Search within visualization sort by: Relevance ✓ show: Any V

journal/newspaper article

"Learning is about being active, but the digital is not really active": physiotherapy teachers' attitudes toward and experiences with digital education (2022-09-09)

Yngve Røe, Tone Dahl-Michelsen

Journal of service theory and practice; 1-11

[link]: https://hdl.handle.net/11250/3041025

Background: Digital education is expected to transform higher education teaching and learning. Despite high expectations, higher education teachers have been slow to implement active digital learning. Objective: The aim of this study was to investi-...

99 Cite as ↓ Export

Area: Digital education governance, Academic leadership, Digital didactics

journal/newspaper article

Digital Learning and Digital Institution in Higher Education (2023-01-01)

Mamdouh Alenezi

Education Sciences, Vol 13, Iss 88, p 88 (2023)

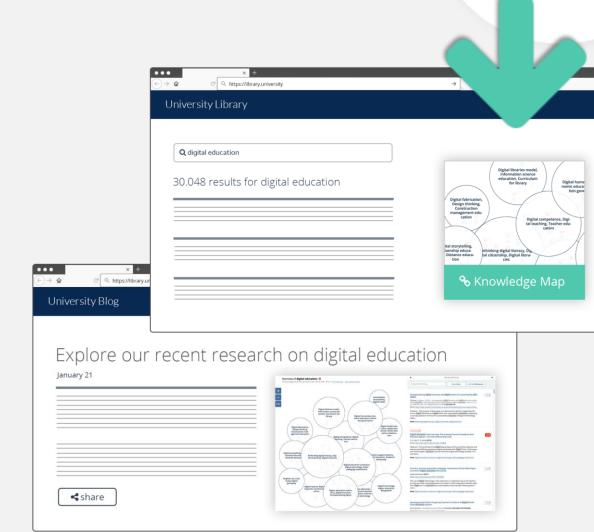
[doi]: https://doi.org/10.3390/educsci13010088

Higher education institutions are going through major changes in their education and operations. Several influences are driving these major changes. Digital transformation, online courses, digital-navy students, operational costs, and micro and na...



Technical setup

















ETH-Bibliothek

enKORE





Use cases

Complement existing discovery systems such as a library catalog or a document search

Make resources other than text (e.g. research data, images) more visible and better discoverable

Integrate visual overviews in other areas of your digital services, such as a news page or a research collection

TU Wien Bibliothek & OKMaps

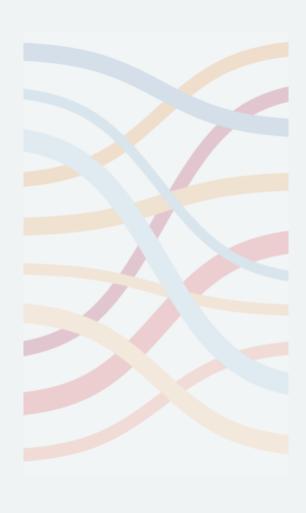
Motivation

Elaborate new pathways on exploratory literature search

Improve interoperable harmonisation of the CatalogPlus content, by Metadata transformation of MARC21 to DublinCore, set up an OAI-API

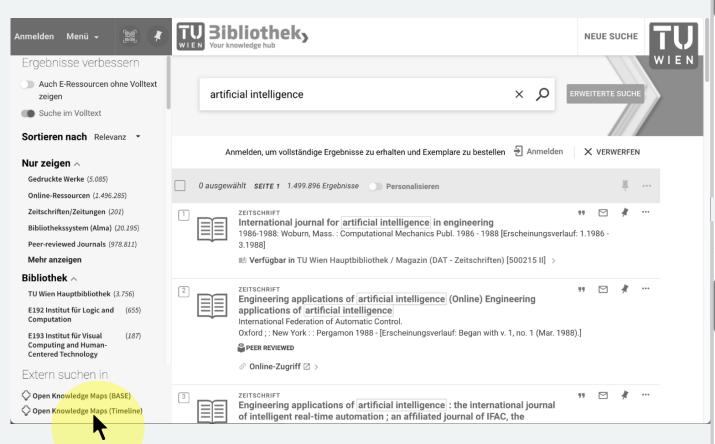
Scope: Open Access E-Media

Embedded as a SDG (UN Sustainable Development Goals)
Use Case, by a preselected Query Store SUSTAINABLE GOALS





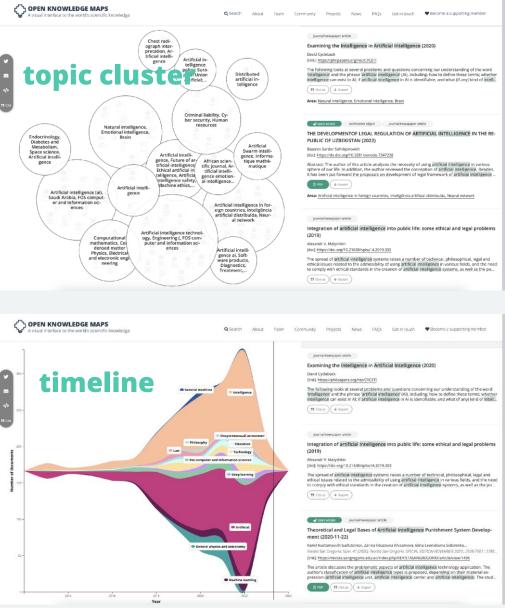
TU Wien Bibliothek & OKMa topic cluste of the control of the contr



Prototype Online at:

https://catalogplus.tuwien.at/





TU Wien Bibliothek & OKMaps

Issues & Next steps

Workflow via BASE can be challenging, e.g. separate instance dependencies of TU Wien Services (reposiTUm, CatalogPlus)

Interoperability with heterogeneous data sources (new requirement)

Complete & improve the harvesting of CatalogPlus content

Improve the mapping quality, e.g. Metadata enrichment of SDG annotations

Elaborate OKMaps representation services via user centric elaboration





Vienna University Library

Provide discovery tools for resources in all disciplines and the for research data in social sciences

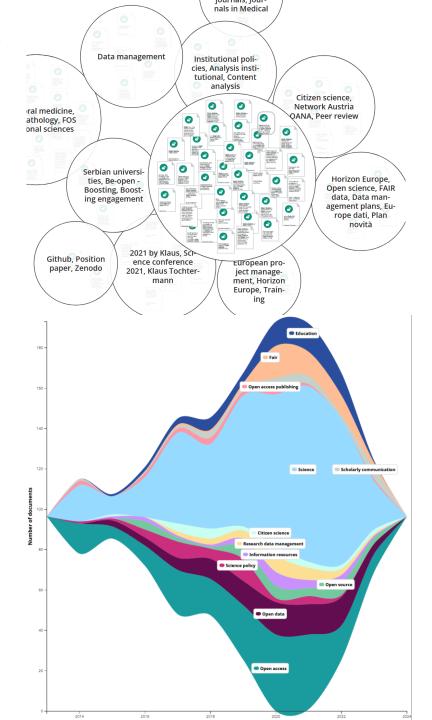
Harvested by BASE and visualized by OKMaps

Improving desk researchPiloting visual discovery for data sets

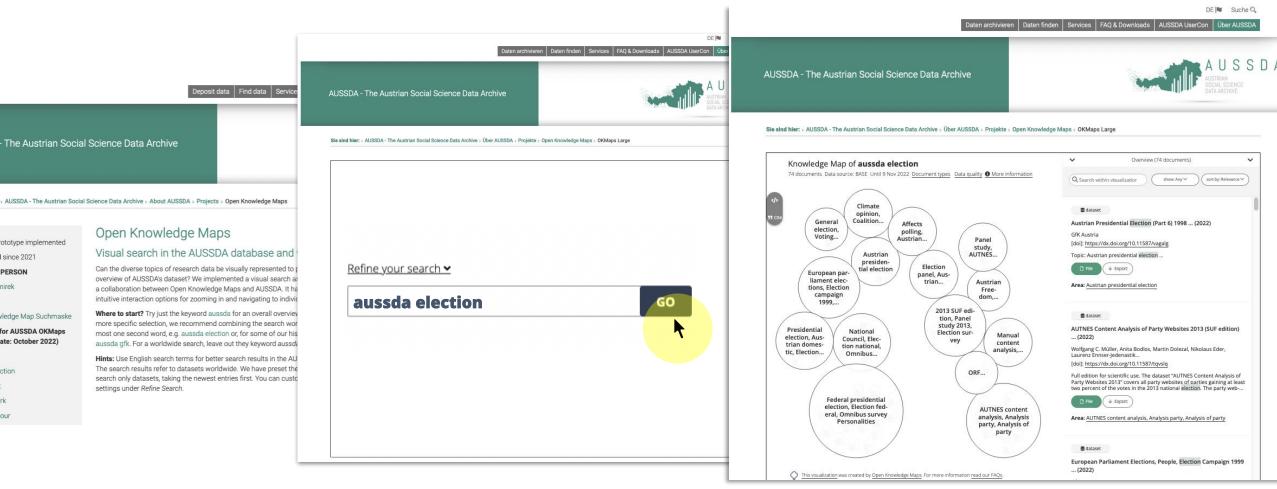
Vienna University Library OKMaps discovery tool



Online at: https://usearch.univie.ac.at/

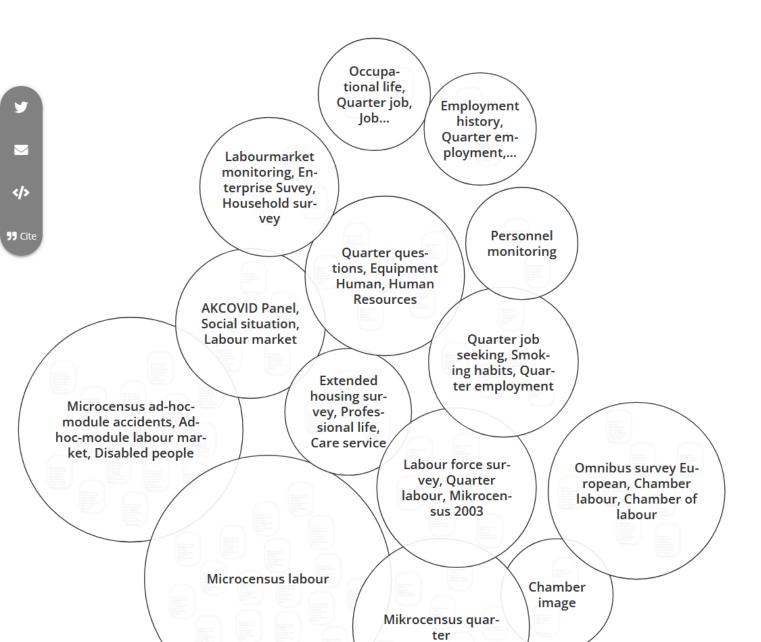


Find research datasets at AUSSDA - The Austrian Social Science Data Archive



Knowledge Map of aussda labour

87 documents Data source: BASE Until 19 Apr 2023 Document types Data quality 1 More information



Overview (87 documents)

Search within visualization

Show: Any

Sort by: Relevance

Sort b

dataset

Microcensus Ad-Hoc-Module 'Employment of disabled people' 2011 (SUF edition) (2022)

Statistics Austria

[doi]: https://dx.doi.org/10.11587/iy6m6l

Full edition for scientific use. In addition to the core variables of the Microcensus Labour Force Survey (LFS), the LFS also has so-called ad-hoc-modules (AHM) that can vary from year to year. The EU-LFS ad-hoc-module 2011 on 'Employment of...



Area: Microcensus ad-hoc-module accidents, Ad-hoc-module labour market, Disable...

dataset

Microcensus Ad-Hoc-Module 'Accidents at work and other work-related health problems' 2020 (SUF edition) (2022)

Statistics Austria

[doi]: https://dx.doi.org/10.11587/j7bdjx

Full edition for scientific use. In addition to the core variables of the Microcensus Labour Force Survey (LFS), the LFS also has so-called ad-hoc-modules (AHM) that can vary from year to year. The EU-LFS ad-hoc-module 2020 on 'Accidents at wor...



Area: Microcensus ad-hoc-module accidents, Ad-hoc-module labour market, Disable...

dataset

Chamber Image; Text Report 1992 (2022)

Vienna University Library Outlook

We are working on expanding the dataset search to include all European data archives in the social sciences (CESSDA ERIC).

Several data archives in the CESSDA Data Catalogue are already included, totalling 20,000 ressources (from 26k) at https://datacatalogue.cessda.eu/

Community-based funding

We propose to fund Open Knowledge Maps and the Custom Services in a collective effort: organizations become supporting members and provide a yearly contribution.

In return, we invite our members to co-create the platform with us. Members become part of the Board of Supporters, which is directly involved in the decision-making process of what features and sources are implemented on Open Knowledge Maps.

Supporting members



BILL & MELINDA GATES foundation















































Participatory approach



This means:

- ✓ Open licences for content, data, and source code
- Easy integration in community infrastructure
- Co-creation of platform with our community
- Community involvement in governance
- Equitable balancing of stakeholder needs
- ✓ Community-based funding & engagement



Thank you for your attention!

Contact:

twitter.com/OK_Maps linkedin.com/company/okmaps pkraker@openknowledgemaps.org

