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Open Knowledge Maps

Discovery for an Open Science

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Co-created with Maxi Schramm

Focus on Open Science
Kaunas, 29 October 2019

OPEN
KNOWLEDGE MAPS

The 2014-2016 **Ebola epidemic** in West Africa claimed more than 11,000 lives

It could have been prevented using public knowledge

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The New York Times

Opinion

OP-ED CONTRIBUTORS

Yes, We Were Warned About Ebola

By Bernice Dahn, Vera Mussah and Cameron Nutt

April 7, 2015

"The results seem to indicate that Liberia has to be included in the Ebola virus endemic zone."

Knobloch et al. **1982**

There is an adage in public health: **"The road to inaction is paved with research papers."**

Uncitedness (publications):
12% - 82% (Larivière & Gingras 2009)

Uncitedness (data):
85% (Peters et al. 2016)

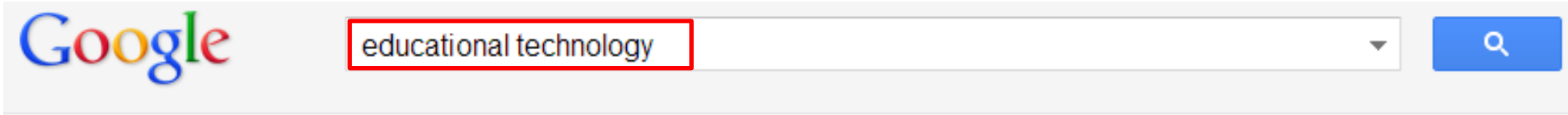
Transfer to practice (medicine):
14%, taking 17 years (Balas 1998)

Dark Knowledge

(Jeschke et al.)

There is a discoverability crisis

that negatively impacts effectiveness & efficiency of science, and its transfer to practice.


Google
educational technology
Scholar
About 2,450,000 results (0.05 sec)
Articles
Legal documents
Any time
Since 2012
Since 2011
Since 2008
Custom range...
Sort by relevance
Sort by date
include patents
include citations
Create alert
[CITATION] Time for Results: Task Force on Leadership and Management
, ... Task Force on Educational Technology... - 1986 - National Governors' Association ...
Cited by 385 Related articles Cite
Thinking Technology: Toward a Constructivist Design Model.
DH Jonassen - Educational technology, 1994 - ERIC
Abstract: Discussion of constructivism and instructional design focuses on the development of a design model for constructivist environments that supports the construction of knowledge, a meaningful context for learning, and collaboration among learners and with ...
Cited by 918 Related articles BL Direct Cite More
Conditions That Facilitate the Implementation of Educational Technology Innovations.
DP Ely - Educational Technology, 1999 - ERIC
Abstract: Describes eight conditions that facilitate implementation of the technology-based change process: dissatisfaction with the status quo, existence of knowledge and skills, availability of resources, availability of time, existence of rewards or incentives, ...
Cited by 211 Related articles BL Direct Cite More
[BOOK] Integrating educational technology into teaching
MD Roblyer, J Edwards, MA Havriluk - 2006 - lavoisier.fr
... Imprimer la notice. Integrating educational technology into teaching (4th ed). Auteur : ROBLYER Margaret. Prix indicatif 89,72 €. Disponible chez l'éditeur (délai d'approvisionnement : 10 jours). ... Paperback. Sommaire d'Integrating educational technology into teaching (4th ed) : ...
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KNOWLEDGE MAPS

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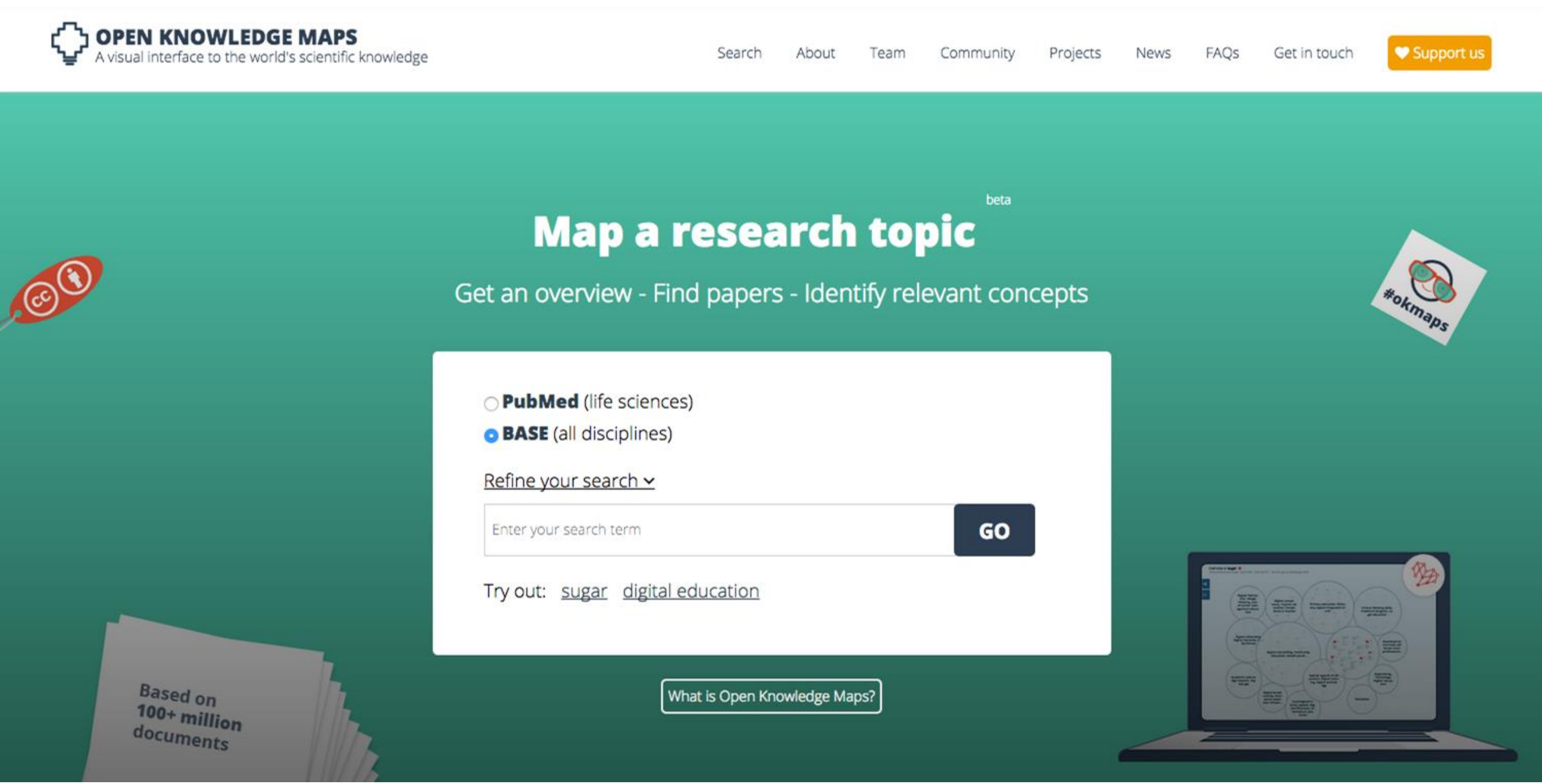
Who we are

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

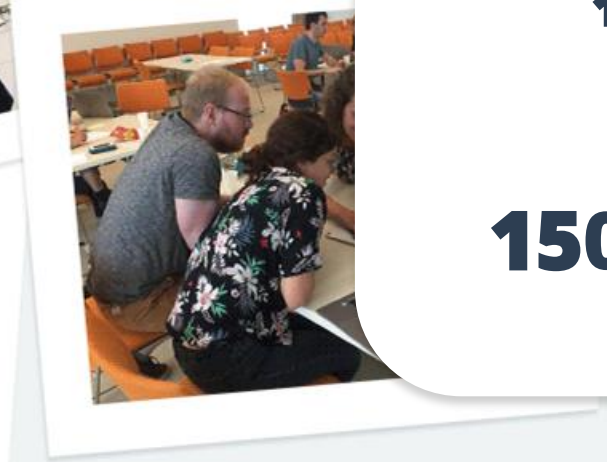


https://openknowledgemaps.org

Advantages

Identify relevant concepts
irrelevant
Find open content
Records, Lecture, laeng
LWL, KNN, K-nearest neighbour
Document Term Matrix, Support Vector Machine, Feature Extraction
SHARE. USE. COLLABORATE.
Crime web mining Huangyan Island Incident
Text Mining, Classification, Social Networking Sites
Big Data, Natural Language Processing, Session Identification
IJCSI, Distributed data mining, Privacy preserving data mining
Six-degree Seperation, Core Figure, Social Networks
Frequent patterns, Meta data conceptual mining
K-means, J48, Hotspot
Loan Default, Time series, Tax administration
Web Structural Mining (WSM), Data mining, Hyperlink
this way to overview

Largest visual search engine for research



First 2.5 years:

½ million visits on the site

100,000+ maps created

1500+ participants in workshops

Open Science Conference

OPEN MINDS [The Austrian Open Source Award]

reddit

dt magazin für computer technik

OpenCon

re:publica THE CONFERENCE. THE EVENT.

mozilla Festival

Hacker News

{} wikicite

ScienceGeist Everything about research

ZBW MEDIATALK

Storybench

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

Core Team

Peter Kraker
Founder & Chairman

Maxi Schramm
UX Designer & Treasurer

Christopher Kittel
Data Scientist & Secretary

Asura Enkhbayar
Software Architect

Scott Chamberlain
Data Sources

Rainer Bachleitner
Frontend Developer

Fabian Kraut
Marketing

Najmeh Shaghaei
Community Coordinator

Björn Brembs
Requirements & Evaluation

Thomas Arrow
Frontend Developer

Know Center
Organizational member

Ludwig Boltzmann Gesellschaft
Supporting member

Advisors

Peter Murray-Rust

Stefanie Lindstaedt

Natalia Manola

Klaus Tochtermann

Bertil F. Dorch

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Stefan Kasberger

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Andreas Ferus

Tony Ross-Hellauer

Christine Zhang

Sebastian Dennerlein

Antica Culina

Robert Gutounig

Daniel Dörler

Christian Kaier

Networks

OANA
Open Science Network Austria

A A K
ANNOTATING ALL KNOWLEDGE

GO FAIR

Österreich forscht
www.citizen-science.at

Open Science
Leibniz Research Alliance

JROST

Strong Partnership with Libraries

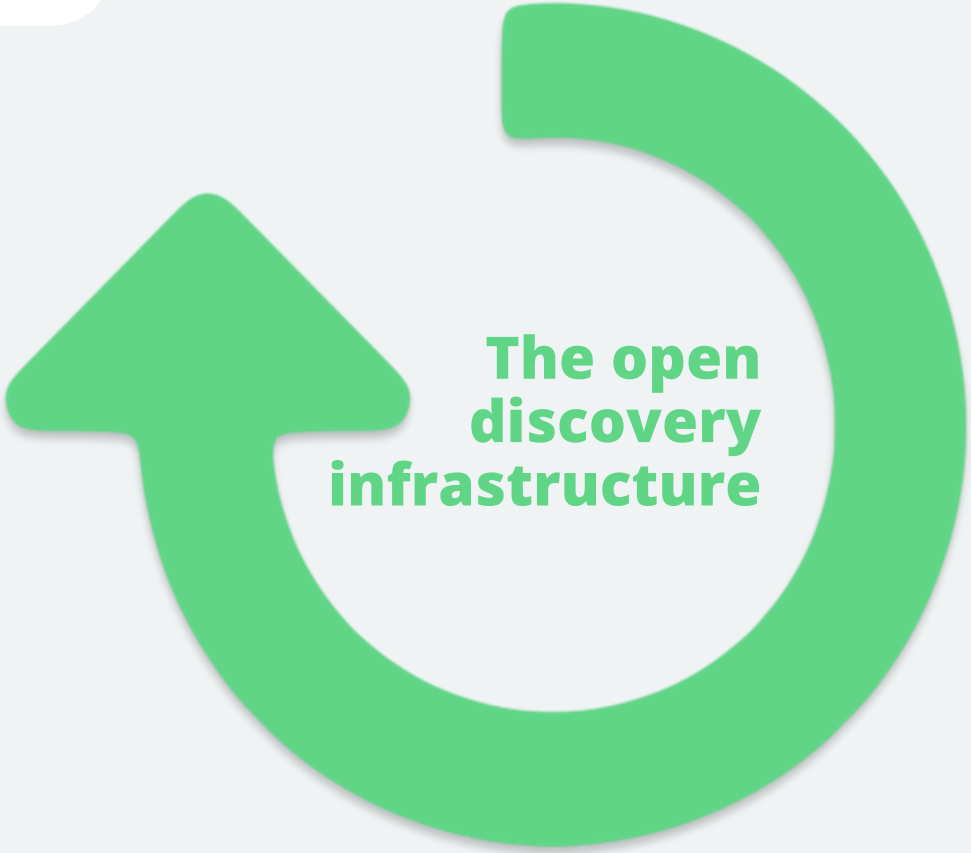
Librarians are among **our most important advisors and partners**

We increase the visibility of library content by including sources that many commercial products do not index

We collaborate with libraries to develop innovative open source projects

The cycle of continuous innovation

Institutions,Researchers, Publishers



Value added services

OPEN KNOWLEDGE MAPS

ORCID

unpaywall

ContentMine

SCHOLIA

Libraries, Archives, Repositories, Aggregators

WISSEN TECHNIK LEIDENSCHAFT TU Graz

ECONBIZ Find Economic Literature.

PubMed

Crossref

zenodo

arXiv.org

INA-Rxiv

Meta aggregators

OpenAIRE

CORE

BASE

WIKIDATA

GO FAIR

DISCOVERY

AfricArXiv
BASE
Institut für Bibliotheks- und Informationswissenschaft
Humboldt-Universität zu Berlin
cessda
CORE
DataCite
DARIAH-EU
EUDAT
gesis
Leibniz Institute for the Social Sciences
Alexander von Humboldt Institute for Internet and Society
hypothes.is
IGB
Impactstory
KNOW Center
net7
NIOO
OpenAIRE
OPERAS
open access in the european research area through scholarly communication
ORCID
RE figure
SCHOLIA
TIB Leibniz Information Centre for Science and Technology University Library
ZBW Leibniz-Informationszentrum Wirtschaft Leibniz Information Centre for Economics
ZB MED Information Centre for Life Sciences

Four principles of...

...the information system supporting research

ELSEVIER

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WIKIPEDIA
PLUMX
public methodology
Crossref
Editorial manager
open editorial review
Transparent
Mendeley Data
link to underlying sources
GitHub
SYMPLECTIC
Digital Commons
institution content
Plum Analytics
Plum Prints
web aggregator
SciVal
Benchmarking
visibility of underlying metrics
CiteScore
public methodology
Mendeley
Mendeley API
public API
Pure
multiple system integration
PubMed
Altmetric
Mendeley
Mendeley Feed
cross publisher
Source neutral
DataSearch
cross repository index
SSRN
user-level sharing options
Mendeley
Mendeley Profile
fully user configurable
Reaxys
3rd party content access
Inter-operable
Mendeley Data
multiple data integration
arXiv.org
Scopus
cross publisher & patent offices
ORCID
User control
Scopus
custom alerts
ScienceDirect
search alerts
ScienceDirect
ScienceDirect APIs
OpenAIRE
Summon 2.0
SCHOLIX
Mendeley
Mendeley Library
user-owned library
Bookmetrix

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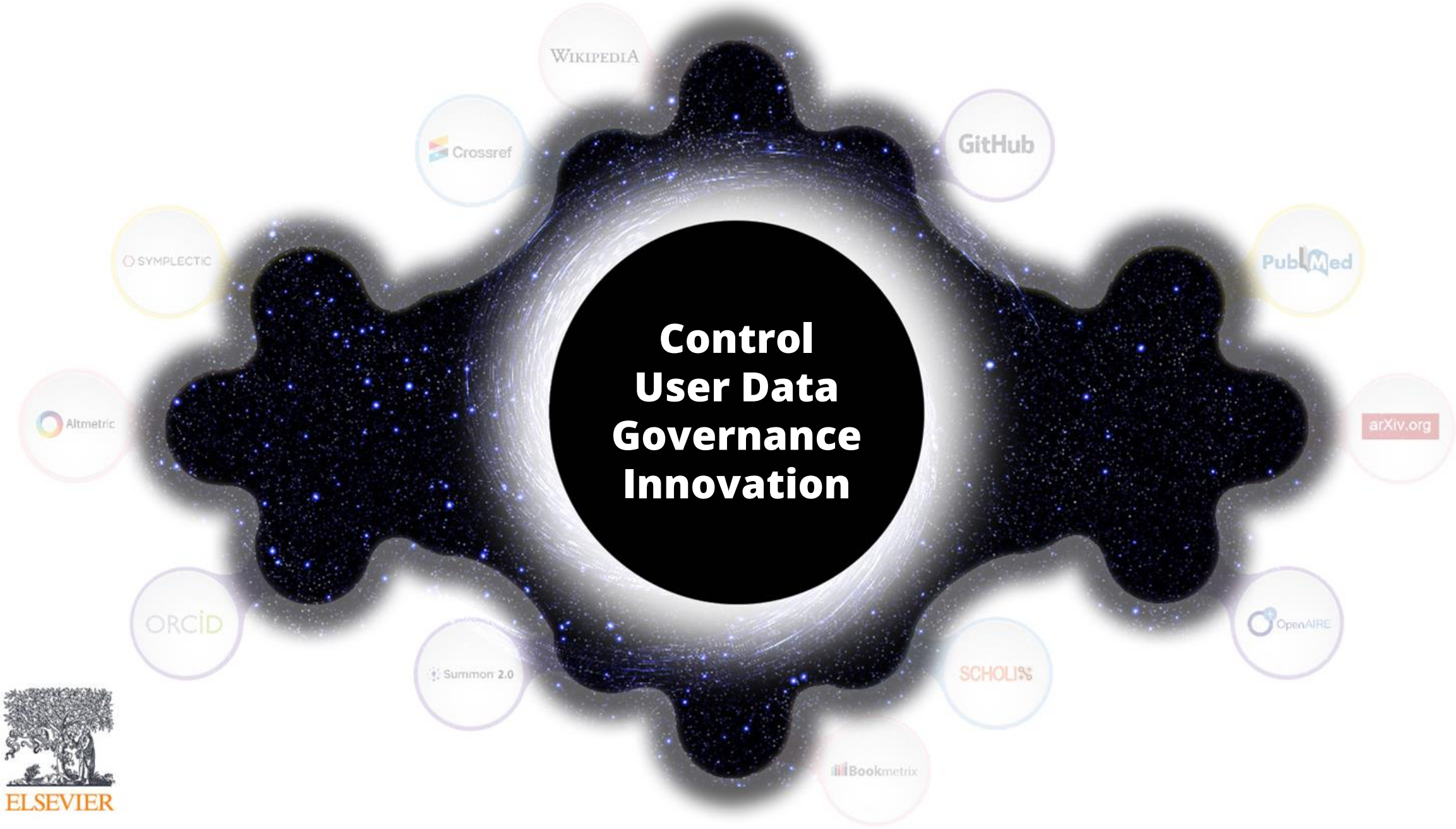
Wikipedia
Crossref
GitHub
SYMPLECTIC
PubMed
Altmetric
arXiv.org
ORCID
OpenAIRE
Summon 2.0
SCHOLIX
Bookmetrix
Control
User Data
Governance
Innovation

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A: 0.5% of RELX's CEO's yearly salary

B: Google's revenue from advertising, every 30 seconds

C: Est. revenue of Nature Communications every two days

= €95,000?

A: 0.5% of RELX's CEO's yearly salary

B: Google's revenue from advertising, every 30 seconds

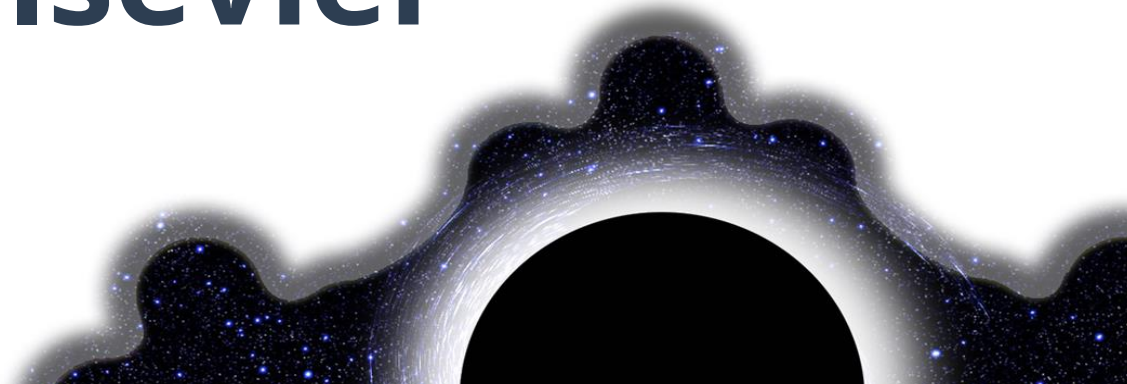
C: Est. revenue of Nature Communications every two days

= €95,000!

D: The total budget of Open Knowledge Maps, including collaboration projects … in the past 2.5 years

Let’s make the open infrastructure sustainable!

#DontLeaveItTo**Google**
#DontLeaveItTo**SpringerNature**
#DontLeaveItTo**Elsevier**



Membership-based Funding Model

We propose to fund Open Knowledge Maps 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.

Membership Categories

Supporting member

1 seat on the Board of Supporters, listing on website

starting at **EUR 2,800** per year

Sustaining member

2 seats on the Board of Supporters, listing on website and in select materials with logo

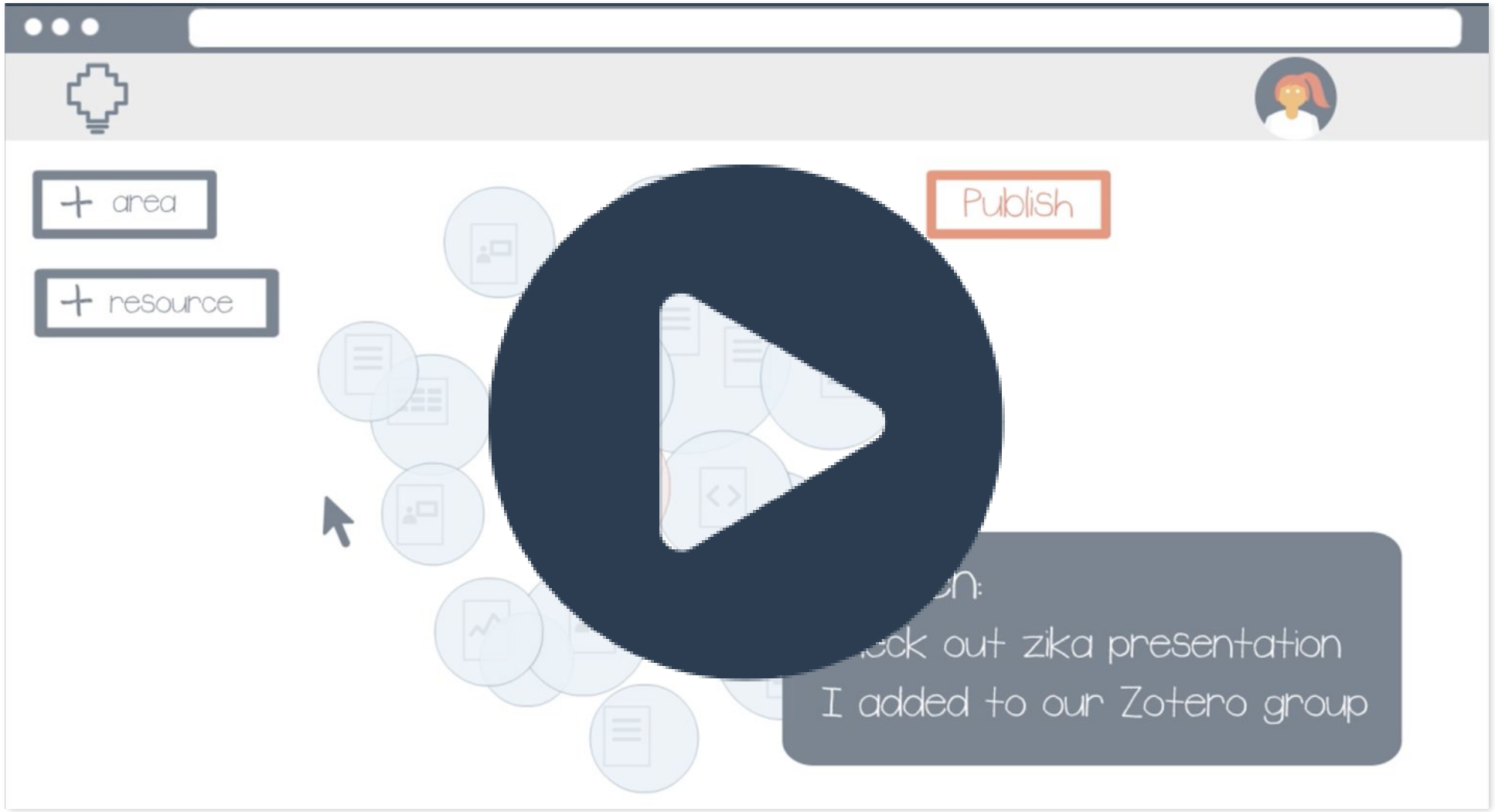
starting at **EUR 4,800** per year

Sustaining member PLUS

3 seats on the Board of Supporters, listing on website and in select materials with logo

starting at **EUR 9,800** per year

Our vision



https://vimeo.com/188647919

Your support matters ❤

Tell us what you think

Introduce OKMaps to your researchers, students and colleagues

Consider becoming a supporting member

… and don’t forget to **sign-up** for our Newsletter ;-)

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Thank you for your attention!

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pkraker@openknowledgemaps.org

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