

Discovery

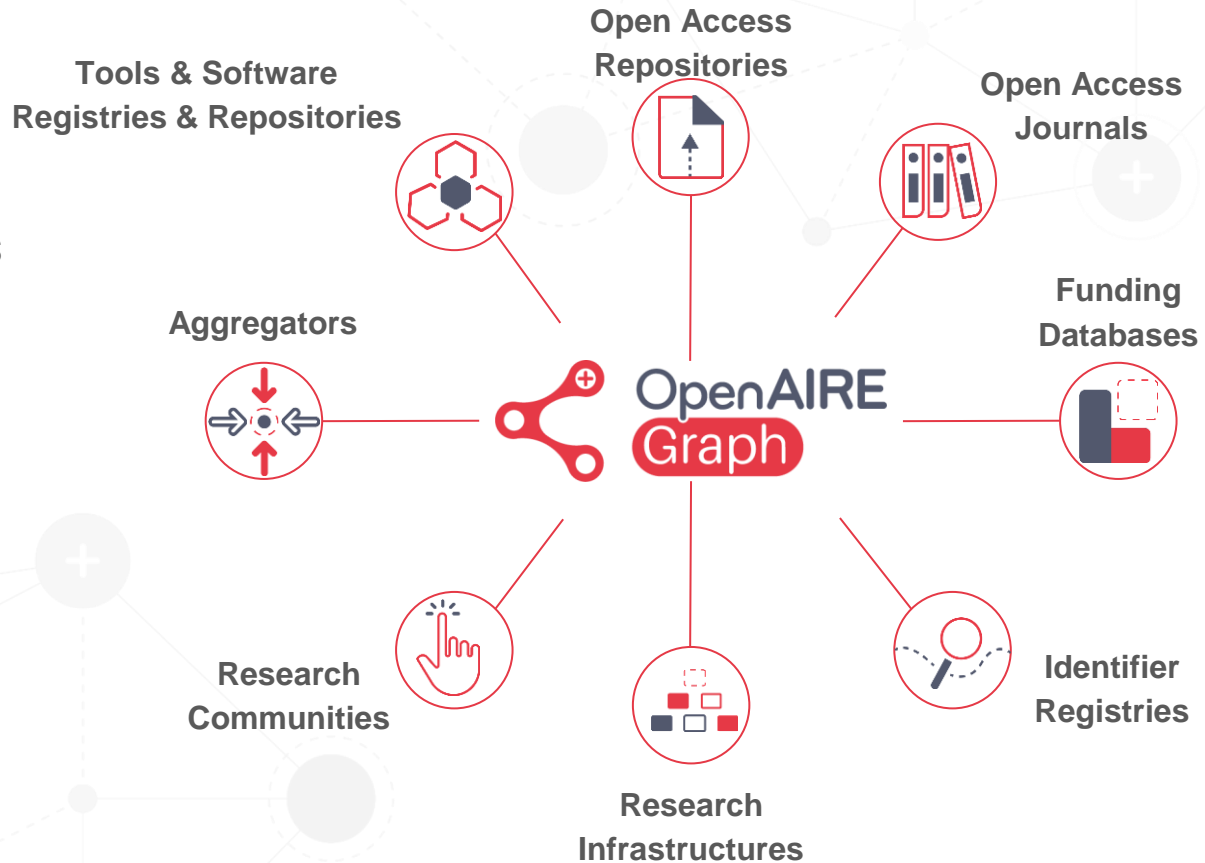


Unlocking Scholarly Discovery with the OpenAIRE Graph

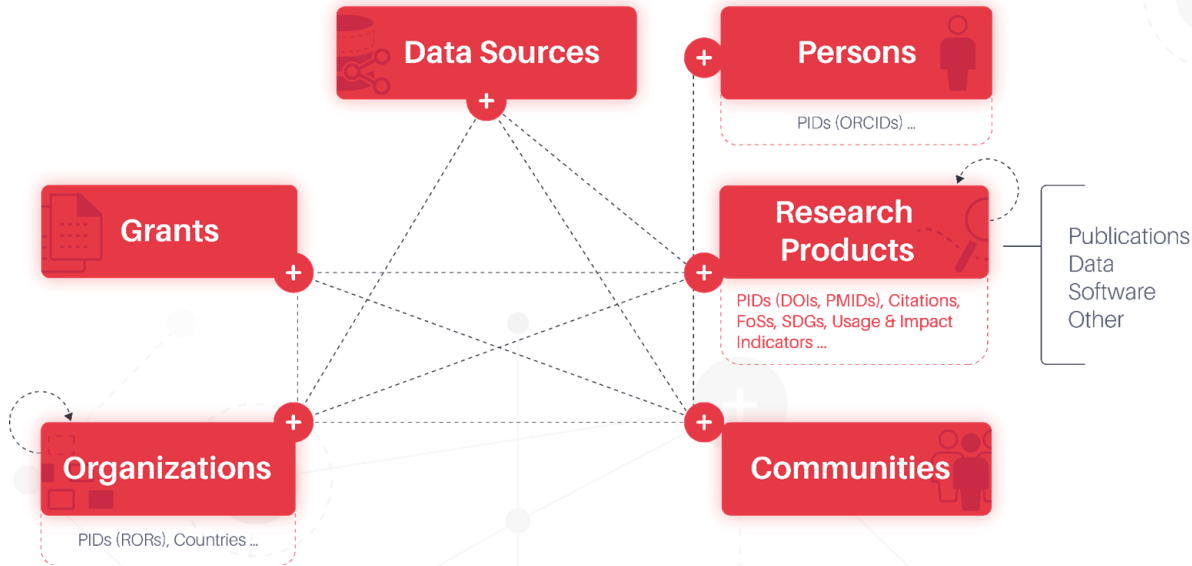


Connecting researchers to a wealth of scholarly resources & data across disciplines.

Empowering scholars, innovators, and policymakers with seamless access to a universe of information.



+256.7 M* records from **+105k*** data sources



360° View of Research

The OpenAIRE Graph is an advanced data infrastructure, designed to map the scholarly communication landscape, **creating an interconnected web of scientific knowledge.**

Collecting everything, not just open research.

*as of April 2024

Data Diversity: Provides a comprehensive mesh of scholarly works spanning across diverse disciplines.

Linking at Scale: Offers a new dimension of research connectivity on a large scale, uncovering hidden relationships and patterns.

Research Connectivity: Empowers your research journey with robust analytics and insights drawn from a rich tapestry of data.



Volume of Data: Access over the global core of research outputs, representing the global knowledge of science.

Source Diversity: Draw from a wide range of data sources, ensuring a multifaceted view of modern research.

Global Collaboration: Bridge geographical gaps with a platform that encapsulates international research efforts and expertise.

101 K
Data Sources

256 Mi
Works

175 Mi
Pubs

363 K
Software

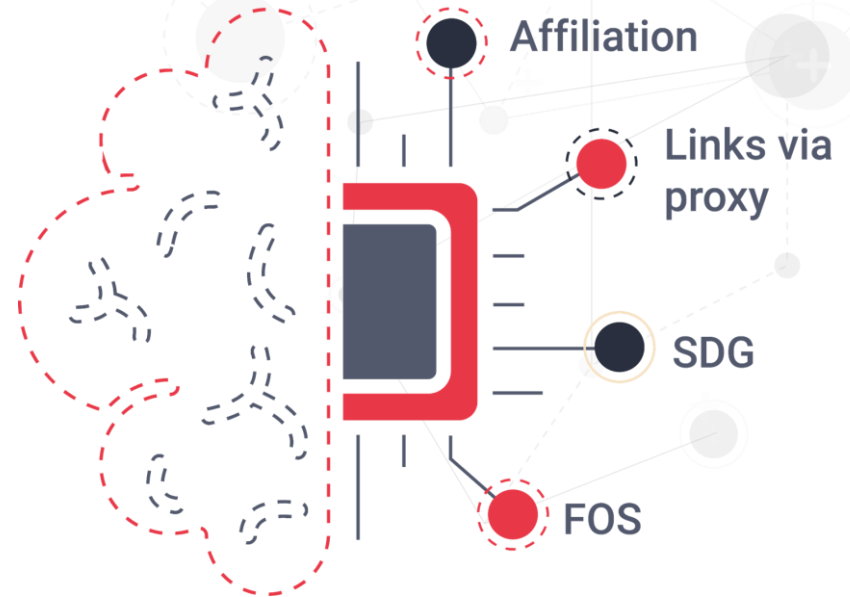
60 Mi
Datasets

3.4 Mi
Grants

Harnesses the precision of **AI-powered algorithms** that ensure relevant and context-rich linkages between research entities.

Leverages the potential of **machine learning** to continuously refine and enhance the Graph's interconnectivity.

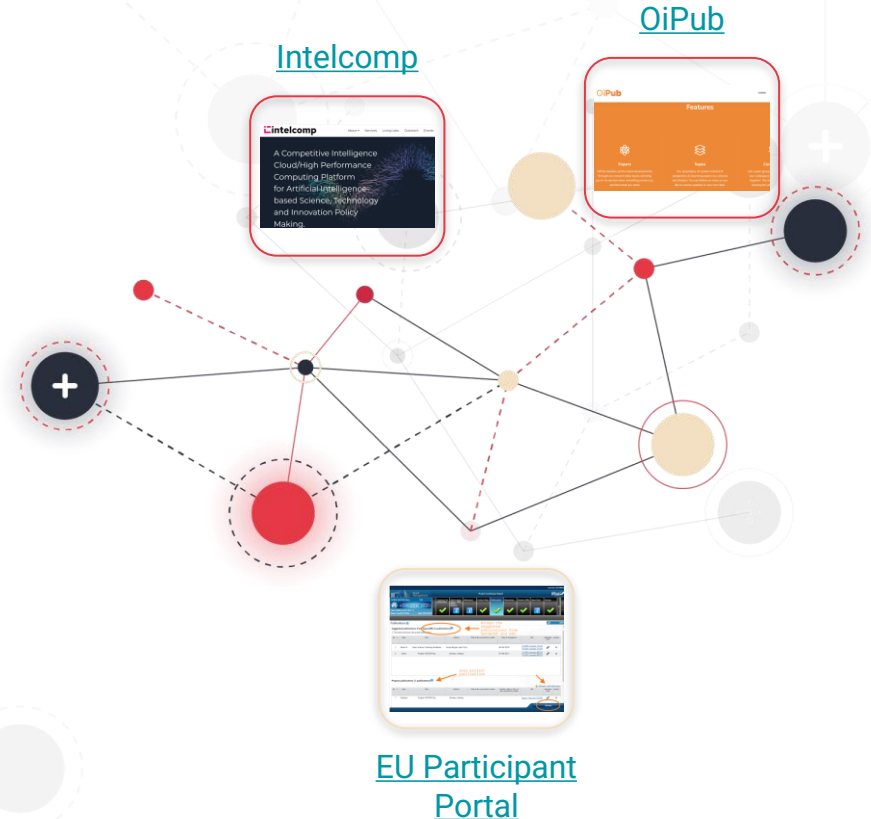
Utilises **semantic technology** that comprehends the data, providing you with connections that go beyond mere keywords to understand the essence of research outputs.



Cross-Disciplinary Discovery: Navigate seamlessly across a spectrum of disciplines, uncovering hidden synergies and fostering new research dialogues.

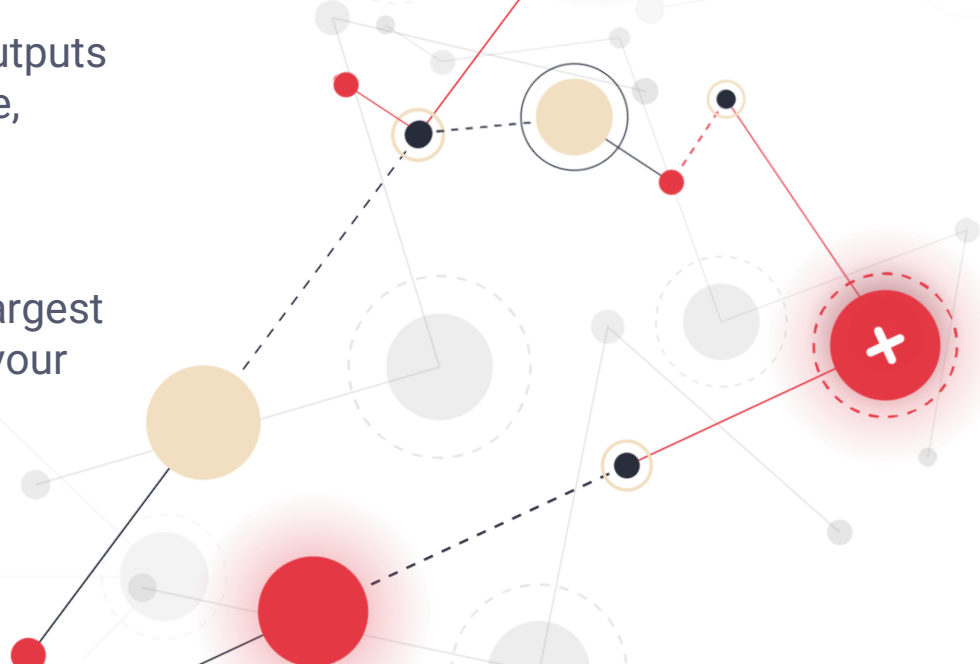
Collaboration Networks: Connect the dots between disparate fields, identifying collaborative opportunities that push the boundaries of innovation.

Innovation through Diversity: Discover a mosaic of research insights that, when combined, fuel groundbreaking advancements and complex problem-solving



Impact indicators are embedded into outputs measuring popularity, impulse, influence, downloads, and views.

See the scope of your own outputs and discover entities in the Graph with the largest and lowest impact to identify trends in your field.

OpenAIRE
UsageCounts

Drive your Research Forward: Rest assured that your work will contribute to a more open, collaborative, and transparent scientific ecosystem.

Leverage FAIR-Compliant Data: Ensure that your research is discoverable, accessible, and reusable, maximizing its impact and utility.

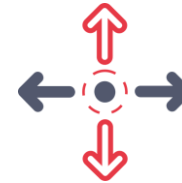
Engage with a platform that is designed from the ground up to support the principles of Open Science, facilitating a **culture of shared knowledge and innovation**.



Findable



Accessible



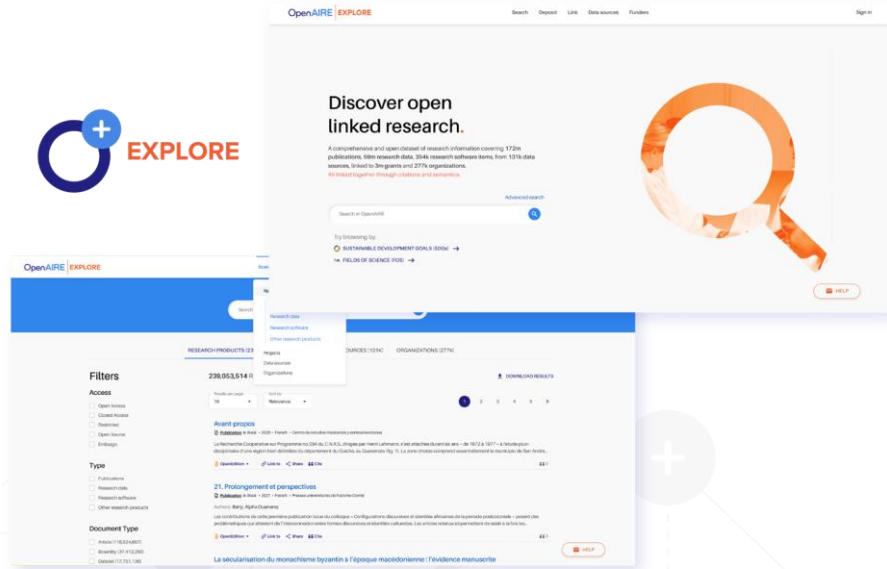
Interoperable



Reusable



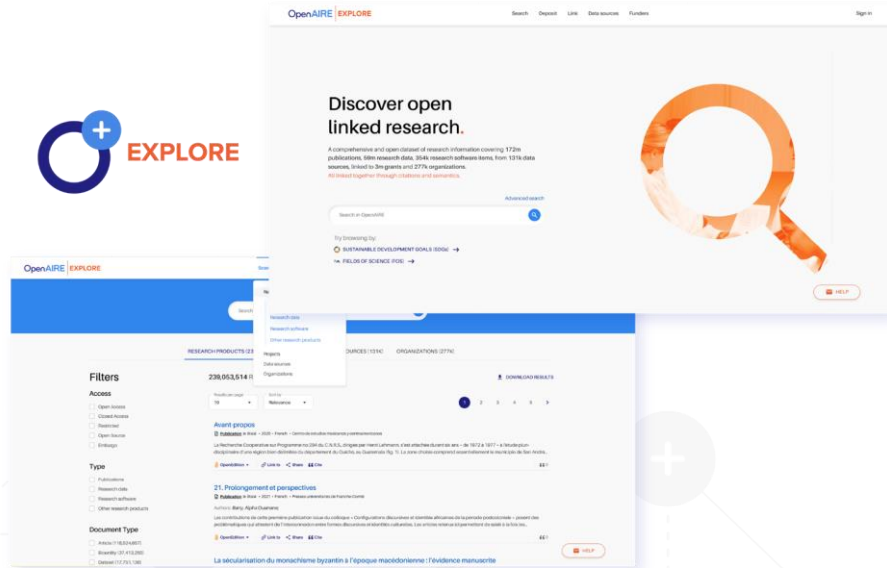
Use OpenAIRE Graph for Discovery



Quickly and easily navigate the Graph's wealth of knowledge with **OpenAIRE EXPLORE**.

Discover research products, projects, data sources, organisations, and more.

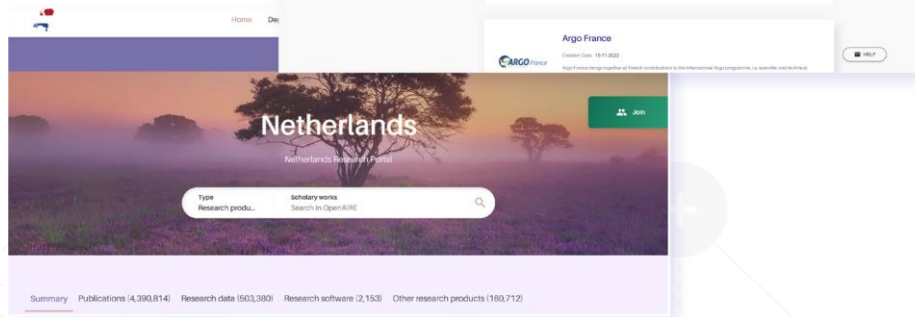
... No technical background or powerful computing infrastructure needed!



Link your work. Our [Link service](#) provides access to many external sources via APIs.

You can easily claim any missing result in OpenAIRE and connect your publications with datasets, software, and funded projects.

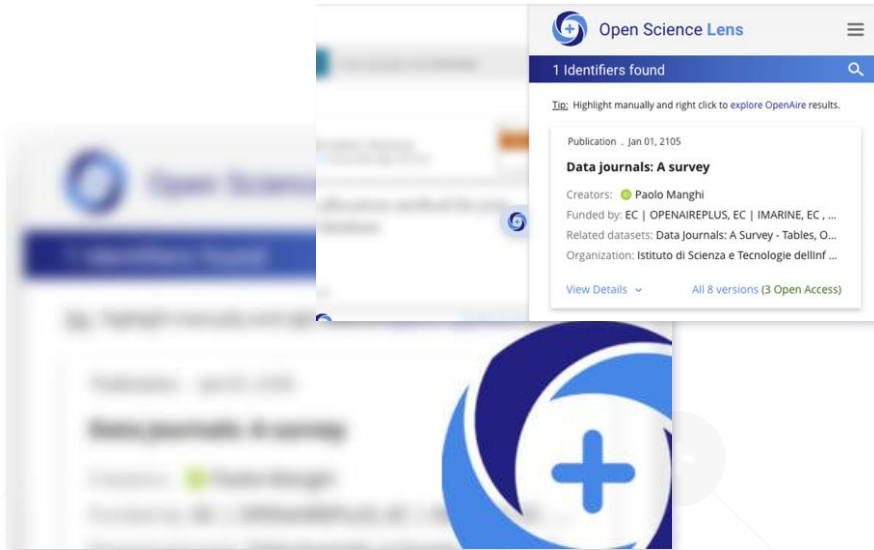
Learn how with our [guide](#).



Create a sub-Graph for your community with **OpenAIRE CONNECT**.

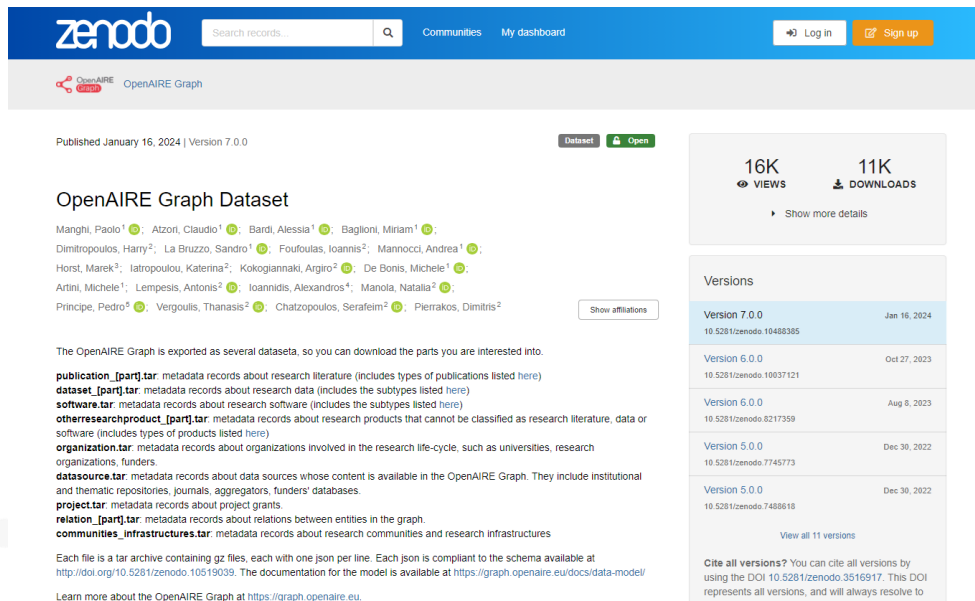
Gather research outputs relevant to your field all in one spot.

Get in touch to build a gateway for your community



Use the **Open Science Lens** plugin to locate and explore information of relevance to Open Science as you browse the web.

Get the browser plugin, available for Chrome and Edge



zenodo Search records [input] [search] Communities My dashboard [login] [sign up]

OpenAIRE Graph

Published January 16, 2024 | Version 7.0.0 [Dataset] [Open]

OpenAIRE Graph Dataset

Manghi, Paolo¹; Alzori, Claudio¹; Bardi, Alessia¹; Baglioni, Miriam¹;
Dimitropoulos, Harry²; La Bruzzo, Sandro¹; Fofoulas, Ioannis²; Mannocci, Andrea¹;
Horst, Marek³; Iatropoulou, Katerina²; Kokogiannaki, Argiro²; De Bonis, Michele¹;
Artini, Michele¹; Lempestis, Antonis²; Ioannidis, Alexandros⁴; Manola, Natalia²;
Principe, Pedro⁵; Vergoulis, Thanasis²; Chatzopoulos, Serafeim²; Pierrakos, Dimitris²

Show affiliations

The OpenAIRE Graph is exported as several datasets, so you can download the parts you are interested into.

- publication_part.tar**: metadata records about research literature (includes types of publications listed here)
- dataset_part.tar**: metadata records about research data (includes the subtypes listed here)
- software_part.tar**: metadata records about research software (includes the subtypes listed here)
- otherresearchproduct_part.tar**: metadata records about research products that cannot be classified as research literature, data or software (includes types of products listed here)
- organization_part.tar**: metadata records about organizations involved in the research life-cycle, such as universities, research organizations, funders
- datasource_part.tar**: metadata records about data sources whose content is available in the OpenAIRE Graph. They include institutional and thematic repositories, journals, aggregators, funders' databases.
- project_part.tar**: metadata records about project grants.
- relation_part.tar**: metadata records about relations between entities in the graph.
- communities_infrastructures_part.tar**: metadata records about research communities and research infrastructures

Each file is a tar archive containing gz files, each with one json per line. Each json is compliant to the schema available at <http://doi.org/10.5281/zenodo.10519039>. The documentation for the model is available at <https://graph.openaire.eu/docs/data-model/>

Learn more about the OpenAIRE Graph at <https://graph.openaire.eu>.

16K VIEWS 11K DOWNLOADS [Show more details]

Versions

Version 7.0.0 10.5281/zenodo.10488385	Jan 16, 2024
Version 6.0.0 10.5281/zenodo.10037121	Oct 27, 2023
Version 6.0.0 10.5281/zenodo.8217359	Aug 6, 2023
Version 5.0.0 10.5281/zenodo.7745773	Dec 30, 2022
Version 5.0.0 10.5281/zenodo.7458618	Dec 30, 2022

View all 11 versions

Cite all versions? You can cite all versions by using the DOI 10.5281/zenodo.3516917. This DOI represents all versions, and will always resolve to the latest one. [Read more.](#)

Do you have technical expertise?

Use [OpenAIRE API](#) to directly explore data in the Graph dataset

Download the [Graph dataset](#) on [Zenodo](#) to explore and process data for your discovery objectives

Note: While the dataset is open and free to all, it requires a significant amount of processing power to handle the entirety of its data. If you don't possess such capacities, you can access parts of the Graph via the [Beginner's Kit](#)



OpenAIRE
Graph

Stay in touch

Helpdesk

Your go-to for personalised technical support and service assistance



graph.openaire.eu/helpdesk



helpdesk@openaire.eu

User Forum

A space for Graph users to discuss functionalities, share insights, ask questions, and learn together



openaire.flarum.cloud