EUROPEAN OPEN
SCIENCE CLOUD

Making use of EOSC: Repositories and Services

Sonja Filiposka, FINKI, UKIM

PhD Workshop, 07.02.2022

Agenda

What is EOSC?

- How can EOSC help researchers?

Open Data

- Repositories

EOSC Portal & Marketplace

- Services

What is next in EOSC?

- Open Calls

What is the European Open Science Cloud - EOSC? - https://www.eosc.eu/about-eosc

- Vision: "**Web of FAIR Data and services**" for science in Europe

- Multi-disciplinary environment where researchers can
  - publish,
  - find and
  - re-use
- data, tools and services

- Builds on existing infrastructure and services
  - federated 'system of systems'

EOSC Association

Focal point of the EOSC Partnership with the European Commission

- Established in July 2020 as a not-for-profit international association
- Aims to serve the EOSC community, promote EOSC, and enable Open Science in Europe

The EOSC Partnership aims to:

- Create a growing ecosystem, bringing together relevant European initiatives around the FAIR data economy
- Foster collaboration among those initiatives towards the objective of open research
- Attract small and medium-sized enterprises (SMEs) and start-ups to use and benefit from the federated services and data sources
- Raise awareness in society about the benefits of FAIR-data-driven innovation

Researchers

Researchers are the first and ultimate target group of EOSC

Their role within the EOSC is two-fold:

- primarily users of the EOSC services
- offer their assets (research output: data, software and other tools) to the EOSC

Not formed in homogeneous networks

Many individual researchers may not (yet) be aware about the EOSC

EOSC provides researchers with

Seamless access to content and services via common AAI

Access to data from various sources which is FAIR and ideally open

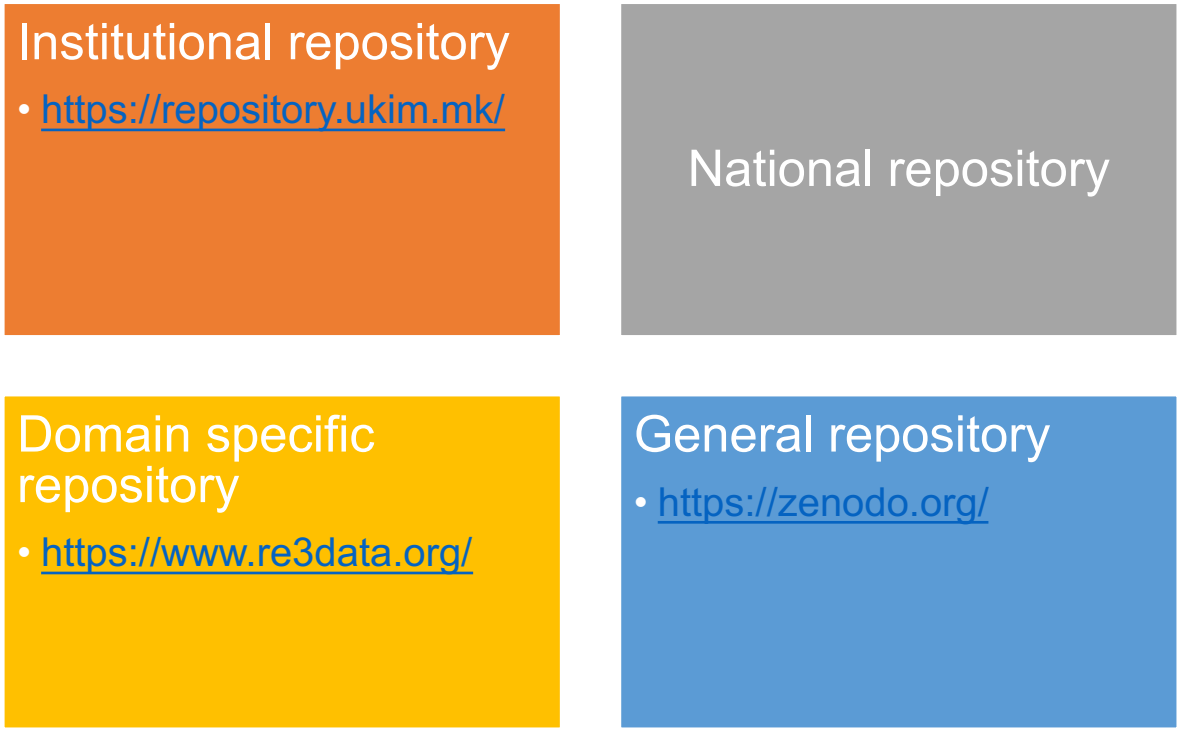
Access to services for storage, computation, analysis, preservation and more

Adoption of standards so data and services can be combined

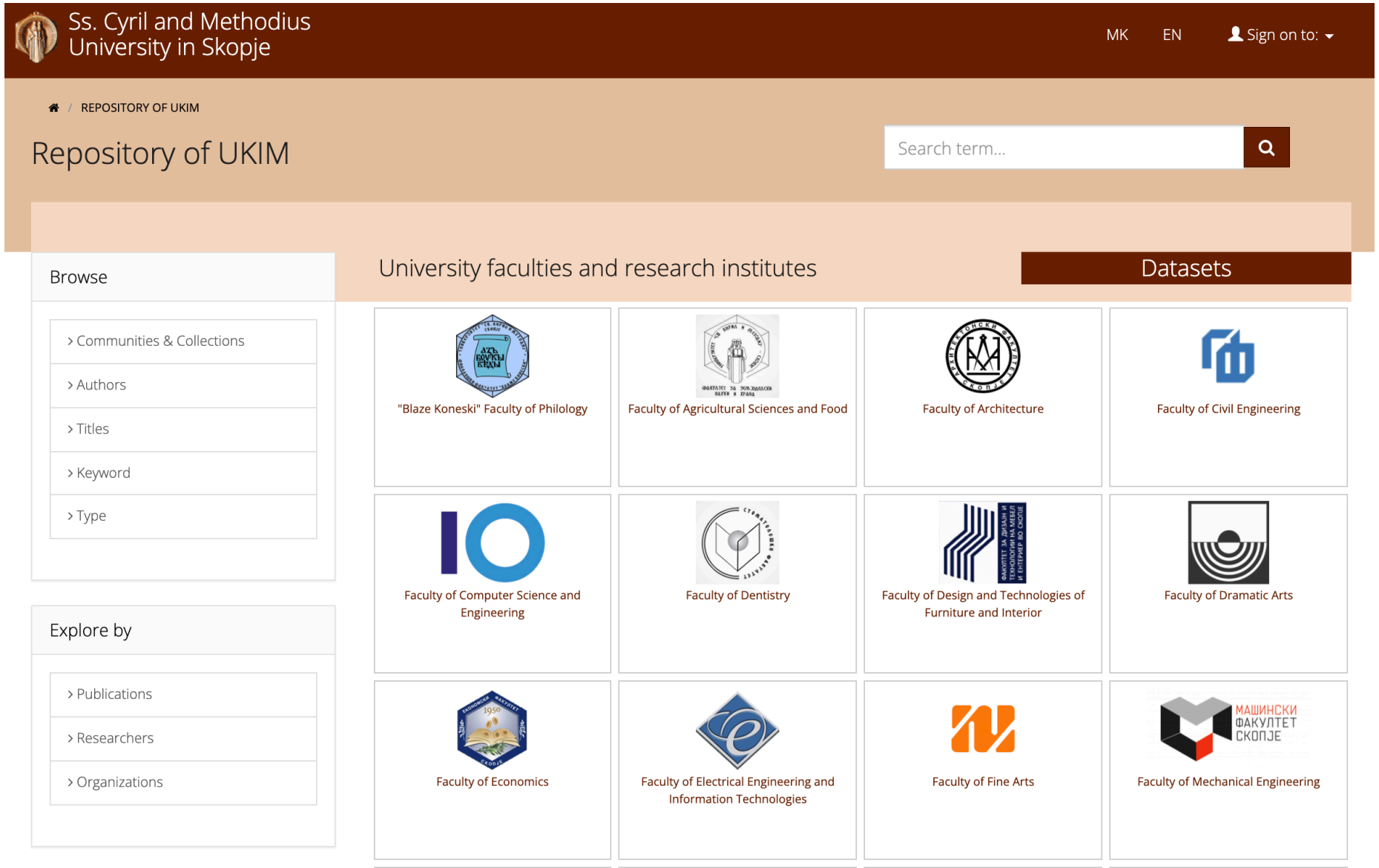
Helpdesk, training and support to improve use of EOSC

Open Data

- **Find** published research output
- **Make** your research output available to the community
  - Papers
  - Datasets
  - Code
  - Tools



UKIM repository



Registry of Research Data Repositories

click to zoom into subjects or to select a bottommost subject in the hierachy as filter for the re3data search page
ctrl + click on a top subject to select it as filter

re3data example

re3data.org

Search | Browse | Suggest | Resources | Contact | DataCite

Filter

- Subjects
- Content Types
- Countries
- AID systems
- API
- Certificates
- Data access
- Data access restrictions
- Database access
- Database access restrictions
- Database licenses
- Data licenses
- Data upload
- Data upload restrictions
- Enhanced publication
- Institution responsibility type
- Institution type
- Keywords
- Metadata standards
- PID systems
- Provider types
- Quality management
- Repository languages
- Software
- Syndications
- Repository types
- Versioning

covid — Search

Toogle short help

← Previous | 1 | 2 | 3 | Next → | Sort by

Found 68 result(s)

COVID-19 Data Portal

Subject(s)	Biology, Medicine, Life Sciences, Microbiology, Virology and Immunology, Epidemiology, Medical Biometry, Medical Informatics, Medicine
Content type(s)	Standard office documents, Scientific and statistical data formats, Raw data
Country	European Union

The COVID-19 Data Portal was launched in April 2020 to bring together relevant datasets for sharing and analysis in an effort to accelerate coronavirus research. It enables researchers to upload, access and analyse COVID-19 related reference data and specialist datasets as part of the wider European COVID-19 Data Platform.

National COVID Cohort Collaborative

National COVID Cohort Collaborative Data Enclave

Subject(s)	Epidemiology, Medical Biometry, Medical Informatics, Microbiology, Virology and Immunology, Medicine, Medicine, Life Sciences, Biology
Content type(s)	Standard office documents, Structured text, Scientific and statistical data formats
Country	United States

The N3C Data Enclave is a secure portal containing a very large and extensive set of harmonized COVID-19 clinical electronic health record (EHR) data. The data can be accessed through a secure cloud Enclave hosted by NCATS and cannot be downloaded due to regulatory control. Broad access is available to investigators at institutions that sign a Data Use Agreements and via Data Use Requests by investigators. The N3C is a unique open, reproducible, transparent,

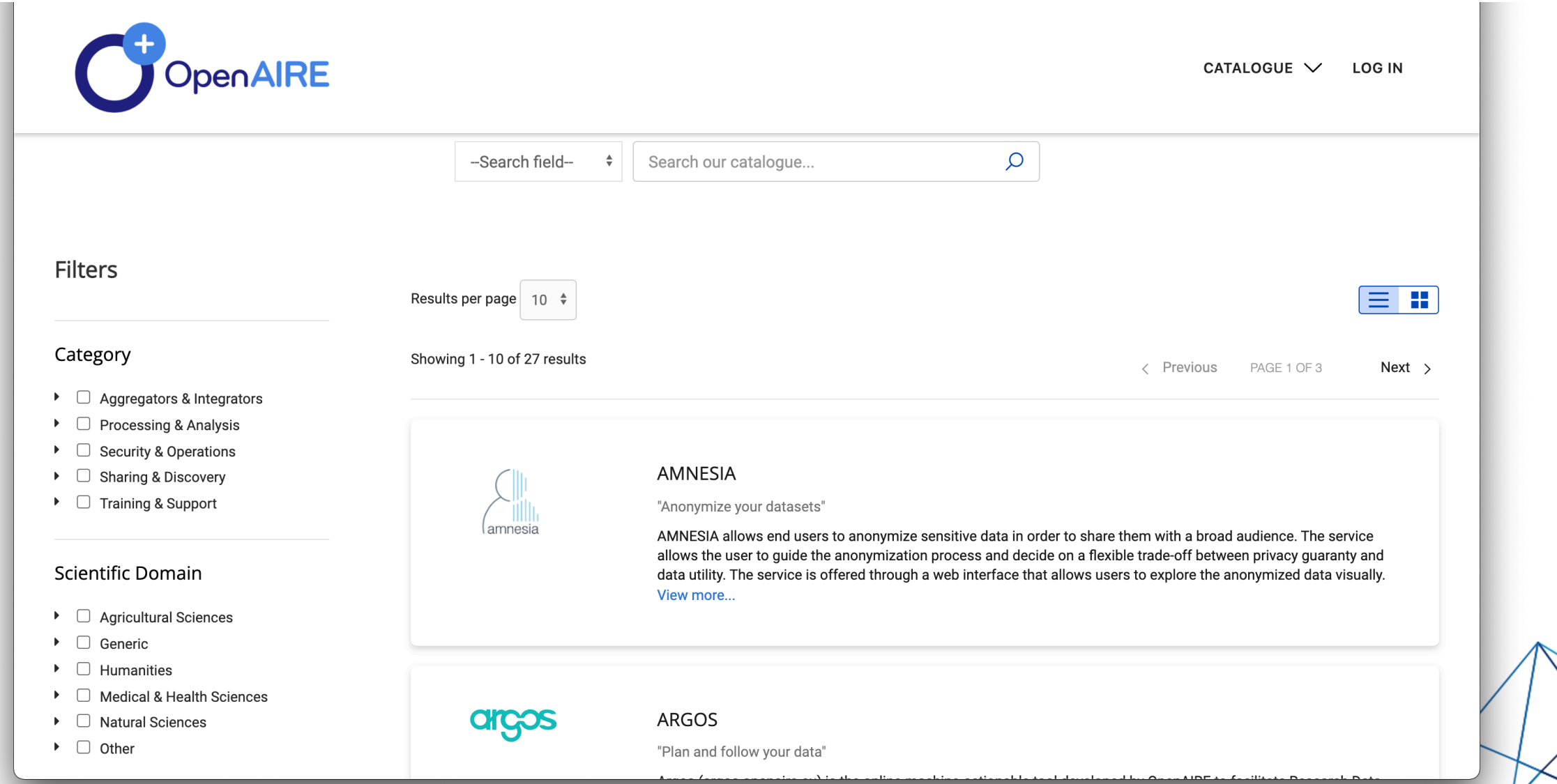
Repository details

COVID-19 Data Portal

General | Institutions | Terms | Standards

Name of repository	**COVID-19 Data Portal**
Repository URL	https://www.covid19dataportal.org/
Subject(s)	Biology; Medicine; Life Sciences; Microbiology, Virology and Immunology; Epidemiology, Medical Biometry, Medical Informatics; Medicine
Description	The COVID-19 Data Portal was launched in April 2020 to bring together relevant datasets for sharing and analysis in an effort to accelerate coronavirus research. It enables researchers to upload, access and analyse COVID-19 related reference data and specialist datasets as part of the wider European COVID-19 Data Platform.
Contact	ecovid19@ebi.ac.uk
Content type(s)	Standard office documents; Scientific and statistical data formats; Raw data
Keyword(s)	COVID-19; biochemistry; epidemiology; proteins; virology
Persistent identifier(s) of the repository	biodbcore-001437
Repository type(s)	disciplinary
Mission statement for designated community	https://www.covid19dataportal.org/the-european-covid-19-data-platform
Research data repository language(s)	English
Data and/or service provider	data provider

OpenAIRE Catalogue



Zenodo

zenodo

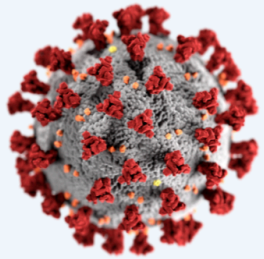
Search

Upload Communities

Log in Sign up

Featured communities

Need help uploading? Contact us



Coronavirus Disease Research Community - COVID-19

Browse New upload

This community collects research outputs that may be relevant to the Coronavirus Disease (COVID-19) or the SARS-CoV-2. Scientists are encouraged to upload their outcome in this collection to facilitate sharing and discovery of information. Although Open Access articles and datasets are...

Curated by: Covid19_Team_OpenAIRE

Recent uploads

October 1, 2020 (vv4.16.2) Software Open Access

View

Transformers: State-of-the-Art Natural Language Processing

Wolf, Thomas; Debut, Lysandre; Sanh, Victor; Chaumond, Julien; Delangue, Clement; Moi, Anthony; Cistac, Perric; Ma, Clara; Jernite, Yacine; Plu, Julien; Xu, Canwen; Le Scao, Teven; Gugger, Sylvain; Drame, Mariama; Lhoest, Quentin; Rush, Alexander M.

Add header (huggingface#15434) [Hotfix] Fix Swin model outputs (huggingface#15414) Full Changelog: https://github.com/huggingface/transformers/compare/v4.16.1...v4.16.2

Uploaded on January 31, 2022

74 more version(s) exist for this record

January 30, 2022 (v99) Dataset Open Access

View

Need help?

Contact us

Zenodo prioritizes all requested related to the COVID-19 outbreak.

We can help with:

- Uploading your research data, software, preprints, etc.
- One-on-one with Zenodo supporters.
- Quota increases beyond our default policy.
- Scripts for automated uploading of larger datasets.

EOSC Portal & Marketplace

- **Categories**
  - Access to physical & eInfrastructure
  - Aggregators & Integrators
  - Process & Analysis
  - Security & Operations
  - Sharing & Discovery
  - Training & Support

- **Scientific Domains**
  - Medical & Health Sciences
  - Engineering & Technology
  - Natural Sciences
  - Generic
  - Humanities
  - Agricultural Sciences
  - Social Sciences
  - Other

EOSC Portal https://eosc-portal.eu/services-resources

Welcome to the EOSC Portal Catalogue and Marketplace!

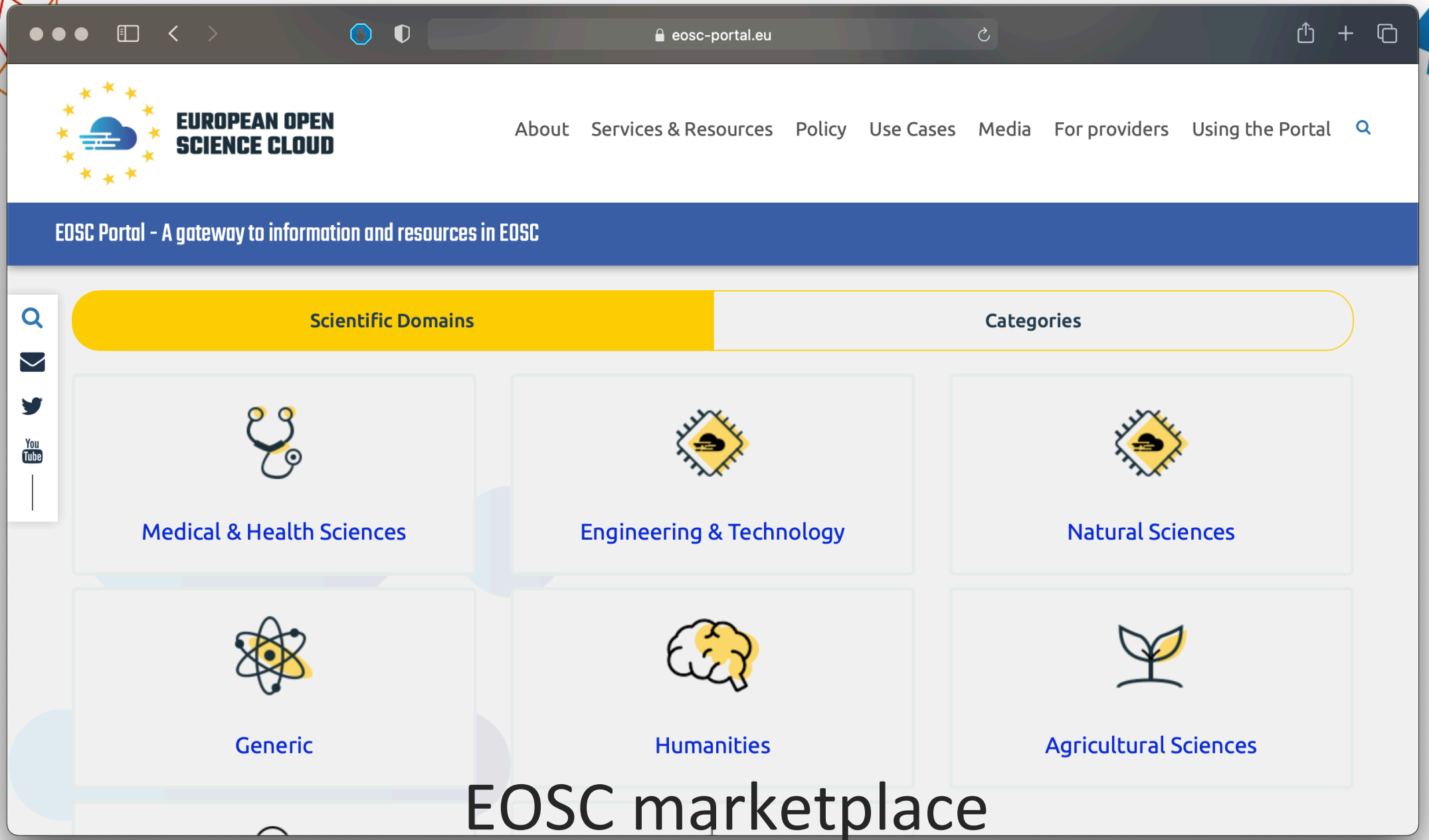
The current catalogue is the result of collaboration and merge of eInfraCentral Service Catalogue and EOSC-Hub Marketplace.

This part of EOSC Portal serves as a universal entry point to the EOSC services, offering distributed and cloud computing resources enabling researchers and other users to process and analyse data in a distributed computing environment, access and order public and commercial e-infrastructure services supplied at national, regional and institutional levels.

It helps to develop synergies and complementarity in data handling between research infrastructures, optimise technological implementation thus contributing to the development of a consistent European research infrastructures ecosystem and ensure integration and interoperability of data and tools within the EOSC.

From the supplier side, it offers local, national and international providers the opportunity to advertise their own services and resources, which is compliant with the needs of European research community.

Visit the Catalogue & Marketplace or choose from the categories below.



EOSC marketplace

https://marketplace.eosc-portal.eu/

Resources

All Resources 327

CATEGORIES

- Access physical & eInfrastructures 70
- Aggregators & Integrators 23
- Processing & Analysis 150
- Security & Operations 29
- Sharing & Discovery 65
- Training & Support 32
- Other 10

FILTERS

Scientific Domains

Find or choose from the list below

- Generic 160
  - Generic 160
- Natural Sciences 114
  - Earth & Related Environmental Sciences 63
  - Biological Sciences 36
  - Physical Sciences 14
  - Computer & Information Sciences 10
  - Chemical Sciences 7
  - Other Natural Sciences 2
  - Mathematics 1
- Engineering & Technology 25
  - Electrical, Electronic & Information Engineering 9
  - Environmental Engineering 9
  - Other Engineering & Technology Sciences 7
  - Environmental Biotechnology 4
  - Materials Engineering 3

SUGGESTED

GBIF Spain Species Portal

Aggregates data on species description, common names, taxonomy, image gallery, sequence data and bibliography

Organisation: GBIF Spain

Alien and Invasive Species Virtual Re...

A web-based, collaborative working environment enacting to predict the spread of an invasive species (possi...

Organisation: D4Science Infrastructure

Data-driven Atlas Production

Online environment to generate coastal and marine atlases.

Organisation: BlueBRIDGE

1-10 of 327 results | Sort by: by name A-Z | 10 | 20 | 30 | Items on page

OPEN ACCESS

Scientific publishing and Open Science Platform

Your Scientific publishing and Open Science Platform

Organisation: SCIPEDIA
Scientific domain: Generic

Add to comparison | Add to favourites

ORDER REQUIRED

100 Percent IT Trusted Cloud

Infrastructure as a Service (IaaS), secured by cutting edge cybersecurity software co-developed by the University of Oxford

Organisation: 100 Percent IT
Scientific domain: Generic

Add to comparison | Add to favourites

FULLY OPEN ACCESS

3DBionotes-WS

EUROPEAN OPEN SCIENCE CLOUD

data

All resour…

My EOSC Marketplace

RESOURCES

- CloudFerro **Data** Collections **Catalog**
- ENES **Data** Space
- EISCAT **data** access portal
- **Data** Miner Analytics Prototype Service
- Access to Open **Data** platforms

OFFERS

PROVIDERS

- Virtual Atomic and Molecular **Data** Centre
- Consortium of European Social Science **Data** Archives ERIC
- **Data** Stewardship Wizard
- Strasbourg astronomical **Data** Centre
- Finnish Social Science **Data** Archive

Resources

All Resources 243

CATEGORIES

- Access physical & eInfrastructures 44
- Aggregators & Integrators 19
- Processing & Analysis 135
- Security & Operations 13
- Sharing & Discovery 45
- Training & Support 22
- Other 7

FILTERS

L

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data.

Organisation:
BlueBRIDGE

Organisation:
BlueBRIDGE

Support for Data Publication

Online environment to support data harmonization and publication.

Organisation:
BlueBRIDGE

Access to Open Data platforms

Online environment to enable standardized data access.

Organisation: **BlueBRIDGE**

Provided by: **D4Science Infrastructure**

(0.0 /5) 0 reviews | Add to comparison | Add to favourites

Access the resource

OPEN ACCESS

→ Webpage → Helpdesk → Helpdesk e-mail → Manual

→ Training information

Ask a question about this resource?

ABOUT | DETAILS | REVIEWS (0)

Access to Open Data platforms: a group of services to enable standardized access to data.

a. IT Managers can deliver VREs enabling effective discovery and access to heterogeneous data platforms; b. Data Managers can easily enable data workflows operating on heterogeneous data platforms; c. Individual scientists can easily discovery, access, and use heterogeneous data platforms by exploiting single sign-on and transparent policy and license management; d. Scientific Advisory working group (user group) empowers working groups with a simple-to-use rich data catalogue populated with a wide spectrum of data generated and maintained by different data platforms.

SCIENTIFIC CATEGORISATION

Generic

- Generic
  - Generic

CATEGORISATION

- Data Management
  - Other

TARGET USERS

- Researchers

RESOURCE AVAILABILITY AND LANGUAGES

- English

B2FIND

Find research data, research data portal

Organisation: EUDAT

Provided by: Deutsches Klimarechenzentrum

(0.0 /5) 0 reviews Add to comparison Add to favourites

Access the resource

VARIOUS ORDER TYPES

→ Webpage → Helpdesk → Helpdesk e-mail → Manual

→ Training information

Ask a question about this resource?

ABOUT DETAILS REVIEWS (0)

B2FIND is the EUDAT metadata indexing service and provides a discovery portal which allows users to find data collections within an international and inter-disciplinary scope. It is based on a comprehensive metadata catalogue of research data collections stored in EUDAT data centres and community repositories. Harmonization of the metadata descriptions collected from heterogeneous sources enables not only the presentation in a consistent form but as well the faceted search across scientific domain boundaries. For Communities and other providers of research data who need to publish and give visibility to their metadata and individual researchers who need to search data from everywhere, and see data in the context with an across community approach.

Features

- Harmonization of the metadata descriptions via the EUDAT Core metadata schema
- Harvesting of repositories via different protocols (e.g. OAI-PMH, CSW, Rest-APIs)
- Facetted search via 12 facets (including geospatial and temporal search options), additional free text search
- Metadata aggregation from community repositories, multiple metadata standards are supported
- Harvested by OpenAIRE explorer

Resource offers

OPEN ACCESS

For Researchers

B2FIND is a discovery service based on metadata steadily harvested from research data collections from EUDAT data centers and other community repositories. The service offers faceted browsing and...

Show more

ORDER REQUIRED

For Data Providers

To enlarge the discovery of existing datasets, data repository owners can make their research data collections stored in existing data repositories harvestable and discoverable via the public...

Show more

TECHNICAL PARAMETERS

Data repository name	string
Harvesting method	OAI-PMH - Other

SCIENTIFIC CATEGORISATION

Generic

- Generic
  - Generic

CATEGORISATION

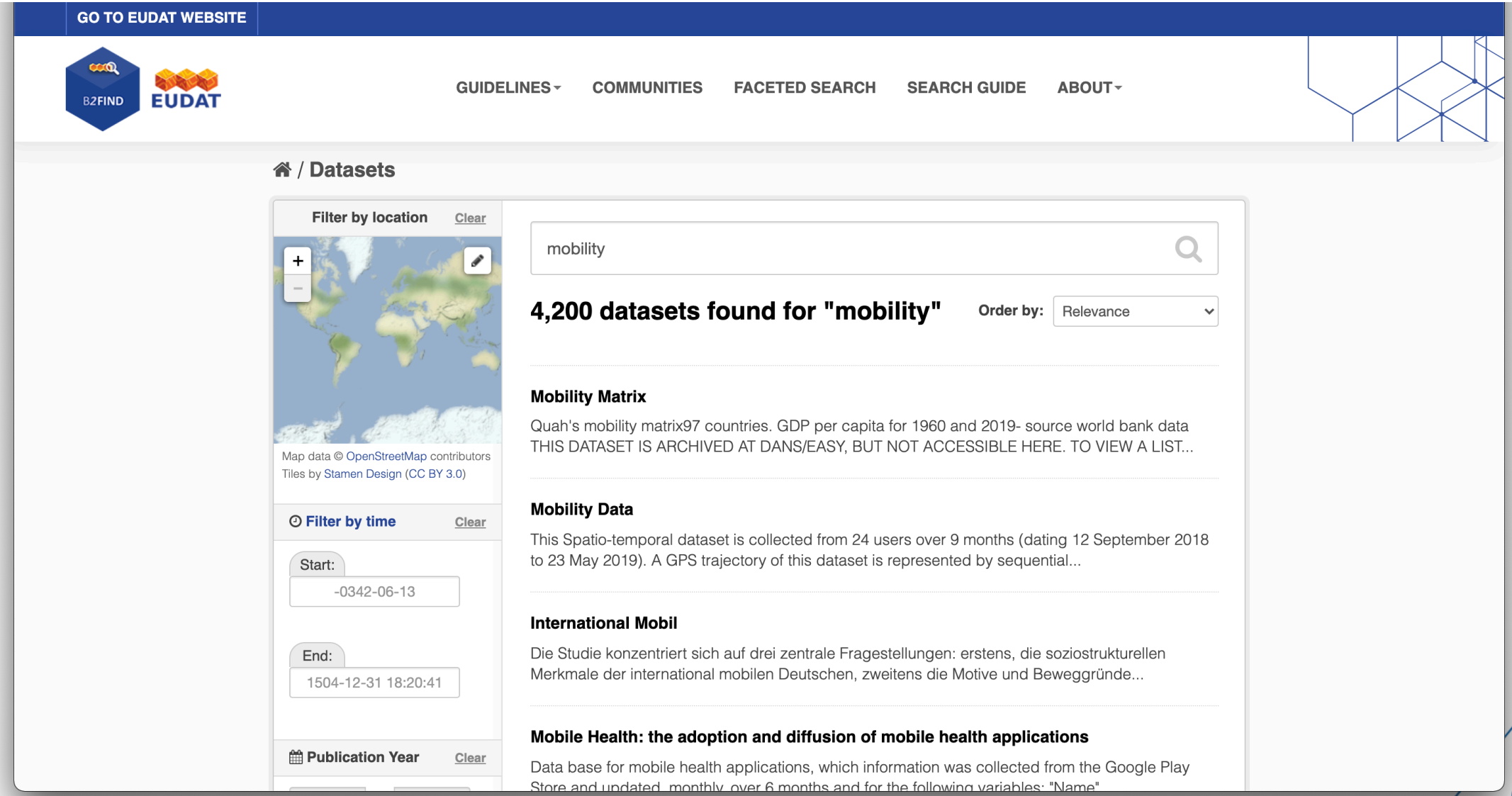
- Scholarly Communication
  - Outreach
  - Discovery
- Data
  - Scientific/Research Data
- Aggregators & Integrators
  - Data
- Data Management
  - Discovery
  - Persistent Identifier

TARGET USERS

- Researchers
- Research Communities

RESOURCE AVAILABILITY AND LANGUAGES

- English


GO TO EUDAT WEBSITE
B2FIND
EUDAT
GUIDELINES
COMMUNITIES
FACETED SEARCH
SEARCH GUIDE
ABOUT
/ Datasets
Filter by location
Clear
Map data © OpenStreetMap contributors
Tiles by Stamen Design (CC BY 3.0)
Filter by time
Clear
Start:
-0342-06-13
End:
1504-12-31 18:20:41
Publication Year
Clear
mobility
4,200 datasets found for "mobility"
Order by:
Relevance
Mobility Matrix
Quah's mobility matrix97 countries. GDP per capita for 1960 and 2019- source world bank data
THIS DATASET IS ARCHIVED AT DANS/EASY, BUT NOT ACCESSIBLE HERE. TO VIEW A LIST...
Mobility Data
This Spatio-temporal dataset is collected from 24 users over 9 months (dating 12 September 2018 to 23 May 2019). A GPS trajectory of this dataset is represented by sequential...
International Mobil
Die Studie konzentriert sich auf drei zentrale Fragestellungen: erstens, die soziostrukturellen Merkmale der international mobilen Deutschen, zweitens die Motive und Beweggründe...
Mobile Health: the adoption and diffusion of mobile health applications
Data base for mobile health applications, which information was collected from the Google Play Store and updated, monthly, over 6 months and for the following variables: "Name"

B2SHARE

Store and publish research data

Organisation: **EUDAT**

Provided by: **CSC – IT CENTER FOR SCIENCE**, **SURF**, **Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen**

(0.0 /5) 0 reviews

Add to comparison | Add to favourites

Access the resource

VARIOUS ORDER TYPES

→ Webpage → Helpdesk → Helpdesk e-mail → Manual

→ Training information

Ask a question about this resource?

ABOUT | DETAILS | REVIEWS (0)

B2SHARE is a user-friendly, reliable and trustworthy way for researchers, scientific communities and citizen scientists to store, publish and share research data in a FAIR way. B2SHARE is a solution that facilitates research data storage, guarantees long-term persistence of data and allows data, results or ideas to be shared worldwide. B2SHARE supports community domains with metadata extensions, access rules and publishing workflows. EUDAT offers communities and organisations customised instances and/or access to repositories supporting large datasets.

Features

- Support of metadata descriptions via the EUDAT metadata schema
- Registers DOIs for datasets and Handle PIDs for data objects
- Supports versioning
- Harvested by B2FIND and OpenAIRE explorer
- Direct upload from B2DROP
- Accessible via a Web GUI and an API to support automatic publishing workflows
- Supports community domains
- Allows communities to define metadata extensions, access rules and publishing workflows

Resource offers

OPEN ACCESS

For Researchers - Basic

B2SHARE is a free-to-use public service supporting cross

ORDER REQUIRED

For Data managers - Premium

The B2SHARE - Premium service is the same as the basic

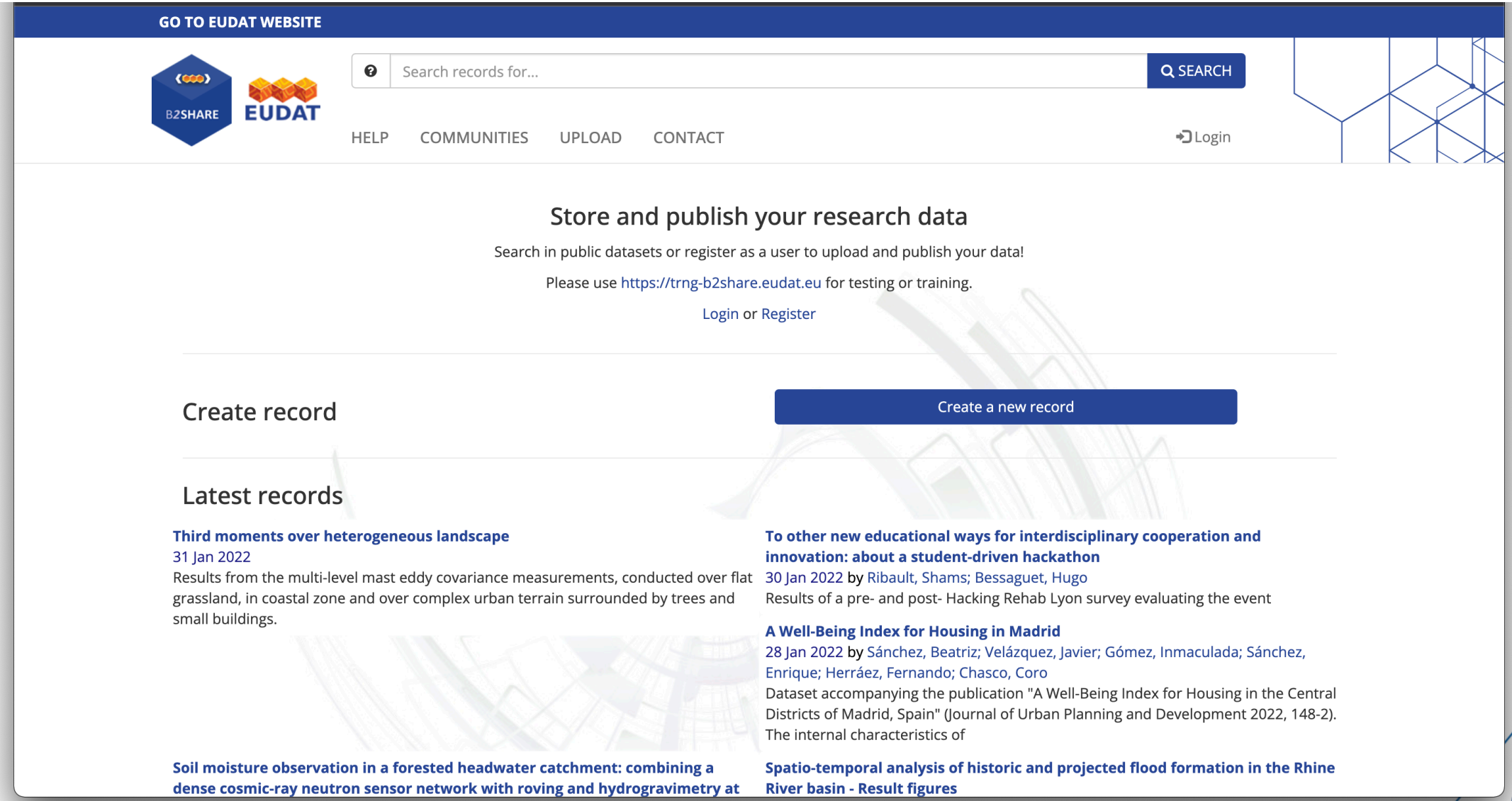
SCIENTIFIC CATEGORISATION

Generic

- Generic
  - Generic

CATEGORISATION

- Data Storage
  - Digital Preservation
- Data Management
  - Preservation
  - Embargo
  - Discovery
  - Persistent Identifier
- Scholarly Communication
  - Publication
- Data
  - Scientific/Research Data


GO TO EUDAT WEBSITE
B2SHARE
EUDAT
Search records for...
SEARCH
HELP
COMMUNITIES
UPLOAD
CONTACT
Login
Store and publish your research data
Search in public datasets or register as a user to upload and publish your data!
Please use https://trng-b2share.eudat.eu for testing or training.
Login or Register
Create record
Create a new record
Latest records
Third moments over heterogeneous landscape
31 Jan 2022
Results from the multi-level mast eddy covariance measurements, conducted over flat grassland, in coastal zone and over complex urban terrain surrounded by trees and small buildings.
To other new educational ways for interdisciplinary cooperation and innovation: about a student-driven hackathon
30 Jan 2022 by Ribault, Shams; Bessaguet, Hugo
Results of a pre- and post- Hacking Rehab Lyon survey evaluating the event
A Well-Being Index for Housing in Madrid
28 Jan 2022 by Sánchez, Beatriz; Velázquez, Javier; Gómez, Inmaculada; Sánchez, Enrique; Herráez, Fernando; Chasco, Coro
Dataset accompanying the publication "A Well-Being Index for Housing in the Central Districts of Madrid, Spain" (Journal of Urban Planning and Development 2022, 148-2). The internal characteristics of
Soil moisture observation in a forested headwater catchment: combining a dense cosmic-ray neutron sensor network with roving and hydrogravimetry at
Spatio-temporal analysis of historic and projected flood formation in the Rhine River basin - Result figures

Forecast

All Resources 327

CATEGORIES

2D/3D Digitisation 2
Artificial Intelligence 6
Data Exploitation 2
Forecast 5
Image/Data Analysis 13
Machine Learning 8
Visualization 4
Workflows 3
Other 28

FILTERS

Scientific Domains

Find or choose from the list below

Agricultural Sciences 3
Agriculture, Forestry & Fisheries 3
Agricultural Biotechnology 0
Animal & Dairy Sciences 0
Other Agricultural Sciences 0
Veterinary Sciences 0
Natural Sciences 2
Earth & Related Environmental 2

SUGGESTED

Aquaculture Farming

A comprehensive and collaborative environment to analyse and forecast aqualculture farm performances.

Organisation: BlueBRIDGE

Alien and Invasive Species Virtual Re...

A web-based, collaborative working environment enacting to predict the spread of an invasive species (possi...

Organisation: D4Science Infrastructure

DEEP training facility

Distributed training facility for Machine Learning, Artificial Intelligence and Deep Learning models.

Organisation: Institute of Physics ...

Displaying 5 results Sort by: by name A-Z

OPEN ACCESS

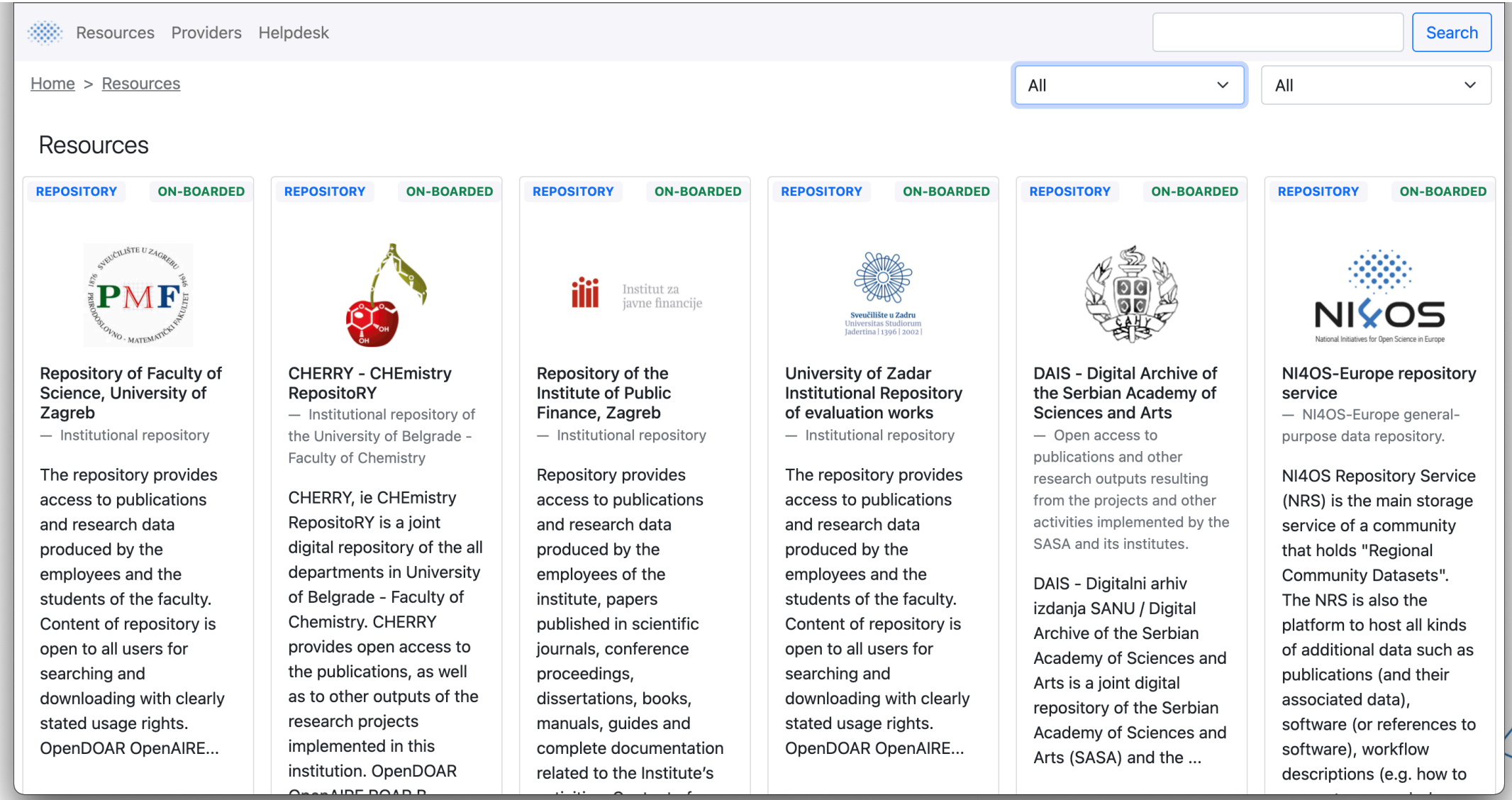
Alien and Invasive Species Virtual Research Environment

A web-based, collaborative working environment enacting to predict the spread of an invasive species (possibly alien) in a new environment

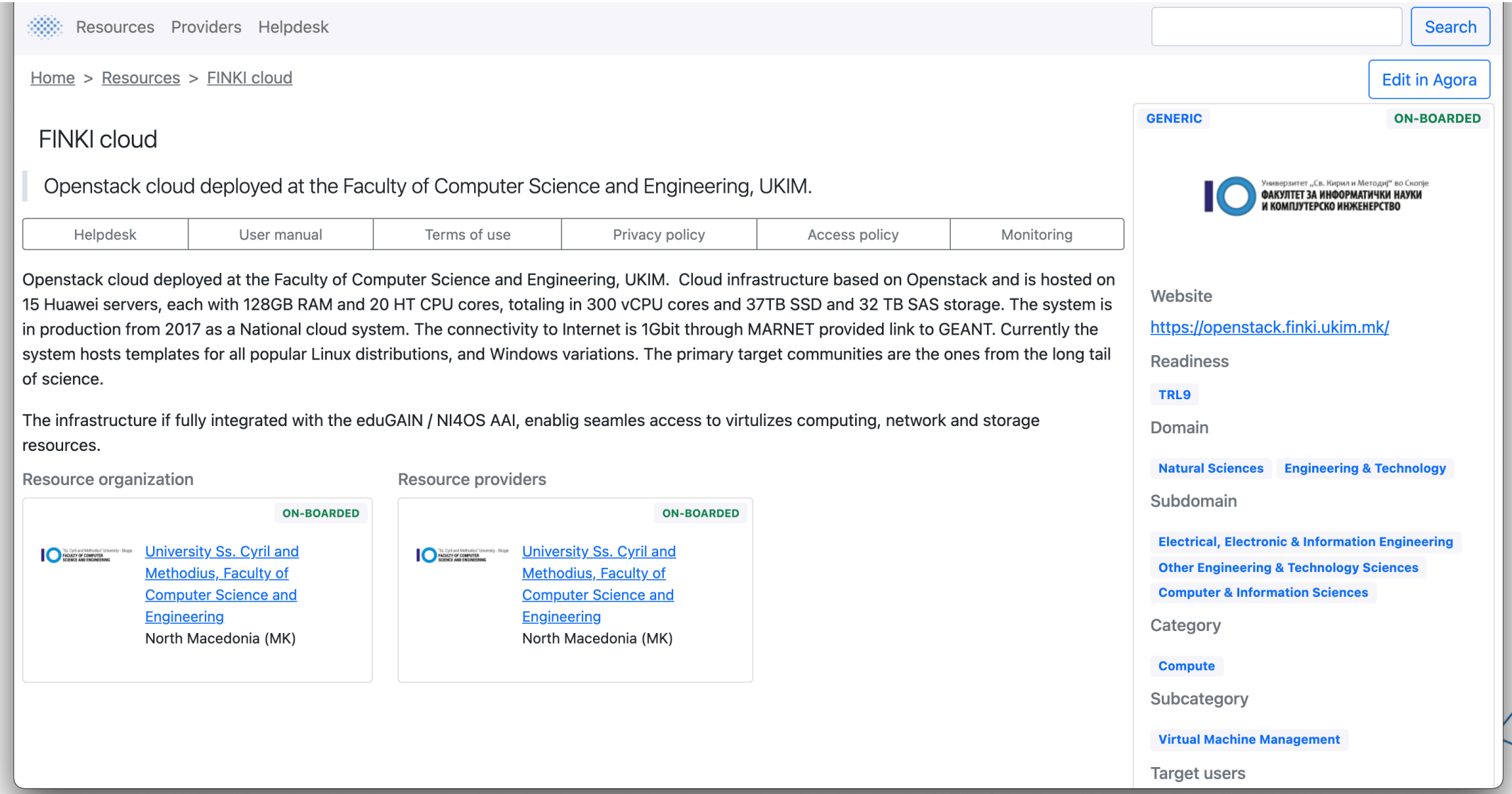
Organisation: D4Science Infrastructure
Scientific domain: Agriculture, Forestry & Fisheries

Add to comparison Add to favourites

NI4OS-Europe Catalogue



FINKI Cloud generic service

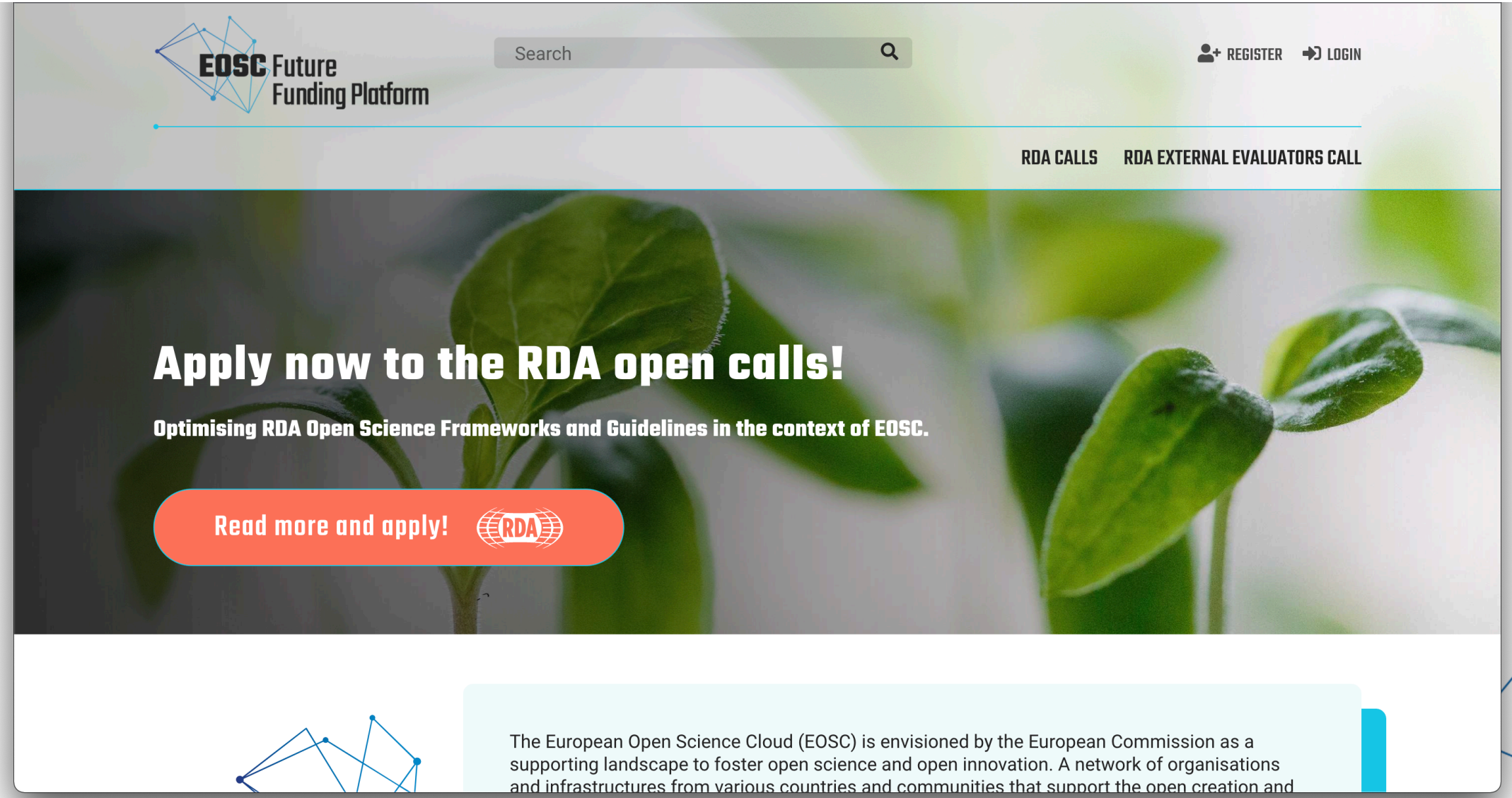


How to participate in building EOSC?

EOSC Future

EOSC Future
About +
Data in Action +
News
Events
Library
Contact
Get involved +
Funding
Portal
Climate and biodiversity
State of the Environment
Climate-Neutral and Smart Cities
Imaging COVID-19 data in EOSC
COVID-19 Metadata Findability and Interoperability
Tracing biostructures
The Dynamics of Biological Processes
Dark Matter
The Extreme Universe and Gravitational Waves
Access Management for Distributed Research Infrastructures
About EOSC
With researchers and other project stakeholders as c
data, resources and services in all
scientific disciplines. The EOSC platform will also seamlessly integrate existing data and services from science communities, research infrastructures and e-infrastructures. Via a
single sign-on system, European researchers will thus have access to interoperable resources and support to manage the full lifecycle of their data.
https://eoscfuture.eu/data-in-action/

EOSC Future Grants



RDA Open Calls

- RDA is running a series of calls, in the context of the EOSC Future project, to further enable **integration and take up of EOSC services**.
- The **purpose** of these RDA Open Calls is to engage the community from a bottom-up approach to contribute their know-how to EOSC.
- The purpose of these grants is to enable communities outside of EOSC to leverage EOSC services.
- This call iteration specifically **targets small projects to show implementation and take up**.
- It aims to **support and encourage examples of adoption** of existing RDA recommendations and outputs which can benefit the community around EOSC and to **promote examples and lessons learnt**.

Open Calls

For Individuals or Organisations

RDA Open Call for RDA / EOSC Future Domain Ambassadors #1

Opening date: 11 Nov 21 - 12:00 am CET
Closing date: 15 Feb 22 - 04:00 pm CET

€7.500
per approved application

Apply

Read more >

For Organisations

RDA Open Call for Maintenance Facilities

Opening date: 11 Nov 21 - 12:00 am CET
Closing date: 15 Mar 22 - 04:00 pm CET

€40.000
per approved application

Apply

Read more >

For Individuals or Organisations

RDA Open Call for RDA Working Groups #1

RDA is running a series of Open Calls, in the context of the EOSC Future project, to further enable the integration and take-

Opening date: 17 Jan 22 - 12:00 am CET
Closing date: 21 Mar 22 - 05:00 pm CET

€15.000
per approved application

Apply

Read more >

For Individuals or Organisations

RDA Open Call for RDA Communities of Practice #1

RDA is running a series of Open Calls, in the context of the EOSC Future project, to further enable integration and take-up

Opening date: 17 Jan 22 - 12:00 am CET
Closing date: 21 Mar 22 - 05:00 pm CET

€7.500
per approved application

Apply

Read more >

EOSC is here to stay!

- EOSC aims at creating a virtual research environment to access and interoperate research data and other research outputs in Europe across the different disciplines.

Links & contact

- **Useful links:**
  - https://www.eosc-portal.eu/
  - https://marketplace.eosc-portal.eu/
- **Get in touch with EOSC:**
  - https://www.eosc.eu
  - https://eosc-portal.eu/contact-us

THANK YOU

Any Questions ?

EUROPEAN OPEN SCIENCE CLOUD