



Androniki Pavlidou
OpenAIRE

OpenAIRE - Nexus

An INFRAEOSC07 project close to SMEs



OpenAIRE-Nexus

What it is

An EU H2020 Funded project focusing on Open Science scholarly works, and offering a variety of services

What it offers

A selection of 13 Open Science services

Who are the services for

Research content & service providers, SMEs, Startups, Spin-offs, research funders, policy makers, research infrastructures, citizens, citizen scientists

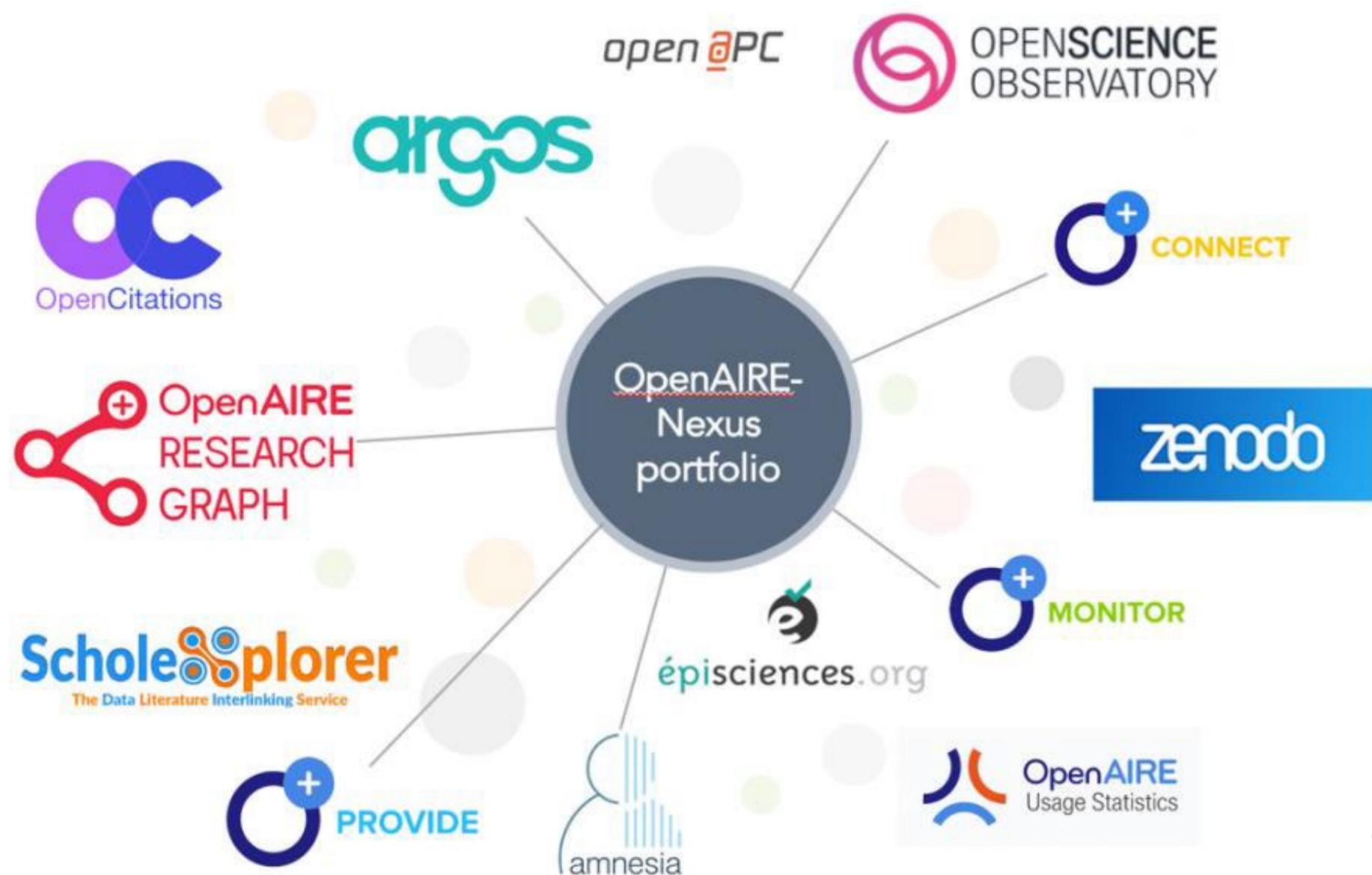
Logistics

- Started January 2021
- 30-month duration
- Coordinator OpenAIRE A.M.K.E

11 Partners

OpenAIRE website:
<https://www.openaire.eu/>

Overview of services

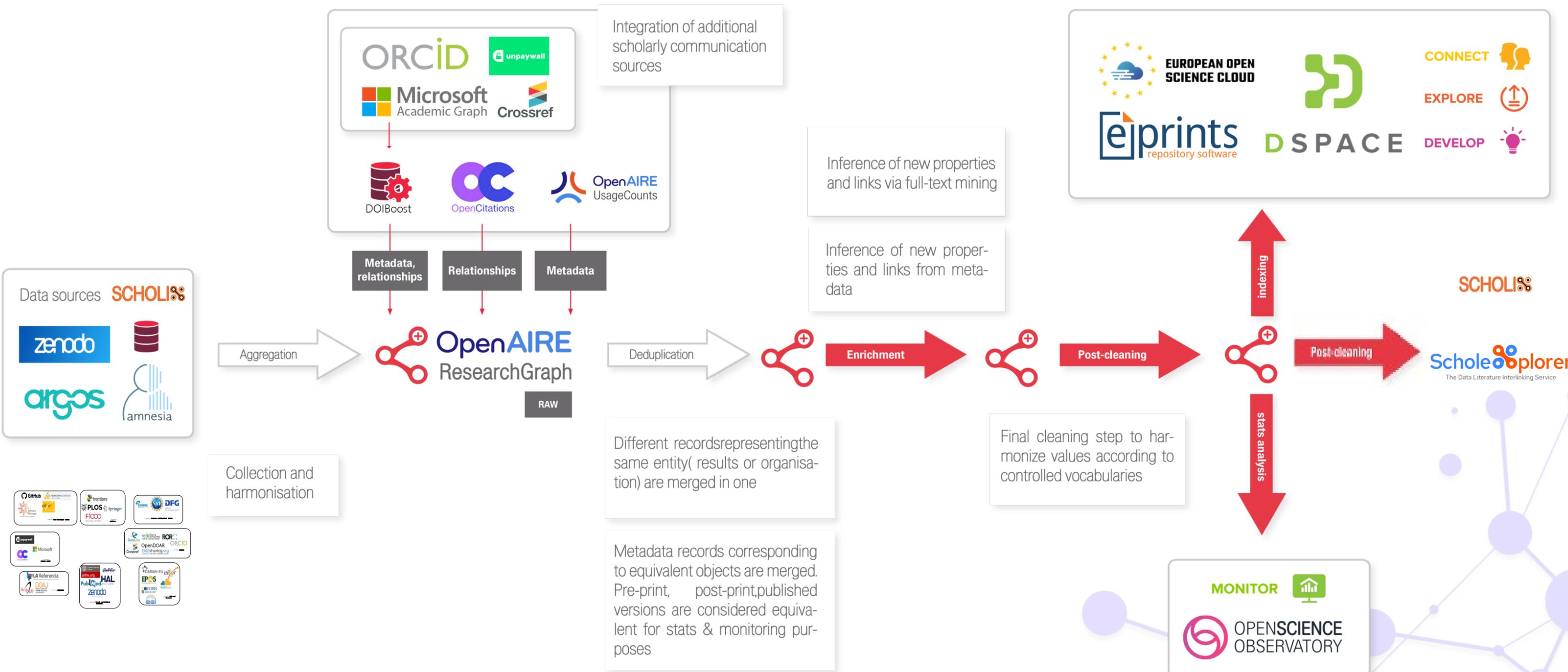


Characteristics

- Openness
- FAIRness
- EOSC interoperable

An **infographic** is available here :
<https://www.openaire.eu/contributing-to-national-eosc-ecosystems>

OpenAIRE Research Graph and ScholExplorer



OpenAIRE Research Graph in numbers

24 funders

78k data sources

3Mi projects

138Mi publications

275k software

15Mi research data

6.7Mi other research products

<https://graph.openaire.eu/>

“A collection of metadata describing **objects** in the research lifecycle and **relationships** among them”

Accessible via an API

Downloadable Dump available on [Zenodo Community](#)

OpenAIRE ScholExplorer

>640 Million API requests

OpenAIRE PROVIDE OpenAIRE Broker & Validator

A web service where **content providers** - institutional & thematic repositories, aggregators, data archives, journals, CRIS systems, **interact** with **OpenAIRE**.

It provides the **front-end access** to many of OpenAIRE's **backend services**

Free to register and use

<https://provide.openaire.eu>

Subservices

- **FAIR assessment** tool
- **ORCID metadata enrichment** events
- **Notification** subscription to receive new metadata enrichments
- **Data Correction** Service to enrich local metadata for Dspace repos (4Science)

OpenAIRE EXPLORE

Is the OpenAIRE **search portal** for **Open Access** scholarly works **globally**

- Accessible via OpenAIRE APIs **>50 Million requests**
- **SDGs** and **Field of Science** filtering
- Open and **free** for everyone

<https://explore.openaire.eu>

OpenCitations

Collection of >1 Billion open citation links

>29 Million API requests

- Derived from open references within Crossref
- Citations hosted as Linked Open Data
- Citations accessible via a flexible API using DOIs

<https://opencitations.net/>

Amnesia

Performs data anonymization

- **Not pseudo-anonymization**
(According to **GDPR**)
- **Personal data become statistical data**

Is a stand - alone application

- Available as web service for training/demo purposes only

~34K unique visitors

<https://amnesia.openaire.eu/>

Argos

- **Data Management Plans tool**
- **FAIR**
- Complies with **funders requirements**
- Easy and flexible via **co-editing**
- Machine and human **readable & shareable** outcomes
- Available in 8 **languages**
- Can be used as a **cloud** service
- Can be deployed **locally** or **setup on demand**
 - <https://argos.openaire.eu/splash/>

OpenAIRE Catalogue of services

Search field: Search OpenAIRE Catalogue...

17 Services, Page 1 of 2

Filters

Portfolios Clear

- Manage Data (2)
- Publish (2)
- Discover (5)
- Interoperability (5)
- Outreach (5)
- Assess (7)

Users Clear

- Funders & policy makers (6)
- Innovators (6)
- Researchers (7)
- Society actors (7)
- Content & service providers (16)

TRL Clear

- 8 - system complete and qualified (2)
- 9 - actual system proven in operational environment (15)

Life Cycle Status Clear

- Production (16)

Manage Data

Amnesia

"High Accuracy Data Anonymization"

AMNESIA is a service that allows users to anonymize their data by using data anonymization algorithms.

Users: **Content & service providers** **Researchers** **Society actors** **Innovators**

Pricing: **Free, Subscription**

Argos

"Plan your data management: Create, link and share Data Management Plans"

Develop and publish your Data Management Plan on the cloud. Use customised dataset templates for different disciplines domains and funders. Connect to infrastructure services via OpenAIRE (ORCID, Funding agencies databases,...

Users: **Content & service providers** **Researchers** **Funders & policy makers** **Society actors** **Innovators**

Pricing: **Free, On demand, Co-branding**

Episciences

"An overlay Open Access journal platform of preprints"

Episciences is a web platform that allows researchers to easily publish and promote their early work (preprints), to Open Access overlay journals. Authors get early feedback, while earning credibility and attribution with low costs.

Users: **Content & service providers** **Researchers**

Pricing: **Free**

Argos

Plan your data management: Create, link and share Data Management Plans

Benefits

- Comply with funder requirements**: Use shared templates and comply with Open Science practices and mandates
- Empowers researchers**: Shows accountability and complies with open science practices and funders policies
- Get support for Horizon Europe (HE)**: Use our template to guide you through effective RDM practices
- Adapt your DMP to your own domain or institutional requirements**: Use the Admin panel to create dataset templates for your domain. Share with others
- Use the power of the OpenAIRE infrastructure**: Connect with Zenodo, ORCID, funding data and repository registries. Export machine & human readable DMPs. Assign DOIs
- Think of RDM beyond data access**: Resolve confidentiality, ethics, security and copyright issues from your planning phase

Features

- Global Openness**: A ready to use collection of public DMP & dataset description templates so you may learn from others
- Customisable DMPs & datasets templates**: Ability to create your own dataset template, for re-use and sharing with others
- Standards & FAIR compliance**: Guides and automated assessment on making your data FAIR
- Machine & human actionable DMPs**: Machine & human readable DMPs in multiple formats (i.e., XML, JSON, DOCX, PDF). Using RDA standards
- History data & long-term preservation**: Enables the preservation and sharing of data information
- Collaborative, user friendly environment**: Easy to use, invite to collaborate and co-edit privately shared DMPs

Used in

ARIADNEplus

Related services

- OpenAIRE**: An intelligent gateway to scholarly communication
- High Accuracy Data Anonymization**: An intelligent gateway to scholarly communication
- MONITOR**: Personalised research monitoring

ARGOS is a service that guides researchers through the creation process of a data management plan to submit to research funders, a requirement for Horizon Europe and national funding programs. The templates are up to date on the cloud and address specific funding requirements based on funders DMP templates. Researchers can easily and without prior knowledge, find the right templates, start editing it by following the step-by-step guidance from ARGOS, save it, enrich, and co-edit with colleagues, and finally, share it openly with a DOI assigned to it. Your DMP will be based on standards and FAIR principles, be readable by humans and machines, making it fully interoperable. ARGOS saves you time and effort to create, craft and shape a DMP efficiently, so that you can focus on your research.

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Select a plan

Most of our services are free at the point of use. But we do offer different pricing models for local installations and customisations.

- Free**:
 - Instant direct access to Argos
 - OpenAIRE API
 - Auto-updates
 - Friendly user interface
 - Email support
 - Public training
 - 1 admin
- On demand**:
 - File download
 - Setup by ARGOS team
 - Installed locally/online
 - OpenAIRE API
 - Friendly user interface
 - Email support
 - Public training
 - 1 admin
 - Unlimited DMPs
- Co-branding**:
 - File download
 - Setup by ARGOS team
 - Fully managed by partner
 - Custom user interface
 - Request priority
 - Custom training
 - Additional admin
 - Unlimited DMPs

Important operational and legal service details

- Service Privacy Policy**: OpenAIRE puts particular emphasis on the security of personal data and the protection of the data subject. For this reason, OpenAIRE has introduced a dedicated and specialised Personal Data Policy.
- Service Level Agreement**: OpenAIRE Service Level Agreement (SLA) refers to the levels of availability, serviceability, performance, operation, or other attributes of the service.
- Service Policies**: How to provide content, how to use our services and data.

Coding material

Our Source Code

Access the service open source resources available on cloud development platforms

```

1 import PowerUpApi from 'powerful-api'
2
3 const api = PowerUpApi()
4
5 api.get('hello', function () {
6   return 'hello world!'
7 })
8
9 api.post('hello/{name}', function (name) {
10  return Hello {name}
11 })
12
13 api.put('hello/{username}', function (username) {
14  return Hello {username}
15 })
16
17 api.delete('hello/{age}', function (age) {
18  return Hello {age}!
19 })
    
```

Supporting material

- Webinars**: Register to the service's webinars and interact live with the service managers.
- Glossary**: View the full list of useful terms related to the service.
- FAQs**: Get answers to common questions about the service.
- Guides**: Understand how to make the best use of the service.

OpenAIRE ELD-Enrich Local Data via the OpenAIRE Graph

Available via GitHub

A running DSpace or DSpace-CRIS 7+ installation

Services used : **OpenAIRE Research Graph** , **Broker Market:**

Suggestion for Claudio Cortese from the OpenAIRE Graph

Select / Deselect All (2) ✓ Approve & import Selected ⊘ Not mine Selected

Now showing 1 - 10 of 110

Trust	Publication	Total Score	Results Per Page
<input checked="" type="checkbox"/>	<p>Processi di trasformazione nel suburbio di Mediolanum tra tarda età repubblicana e imperiale. Il caso dell'area dell'Università Cattolica</p> <p>CORTESE, CLAUDIO</p> <p>Nell'area oggi occupata dall'Università Cattolica del Sacro Cuore di Milano a partire dal 1986 hanno messo in luce una porzione del suburbio occidentale di Mediolanum, e in particolare una suburbana di età imperiale. Un'ampia area di tale insediamento è stata oggetto della presente ricerca.</p>	100.00	10

✓ Approve & import ⊘ Not mine 🔍 Hide evidence

DSpace

Home / OpenAIRE Broker Suggestions

OpenAIRE Broker Suggestions

Below the list of all the suggestions, received from OpenAIRE, for the selected topic.

⏪ Back to topics

Topic: ENRICH/MORE/PID

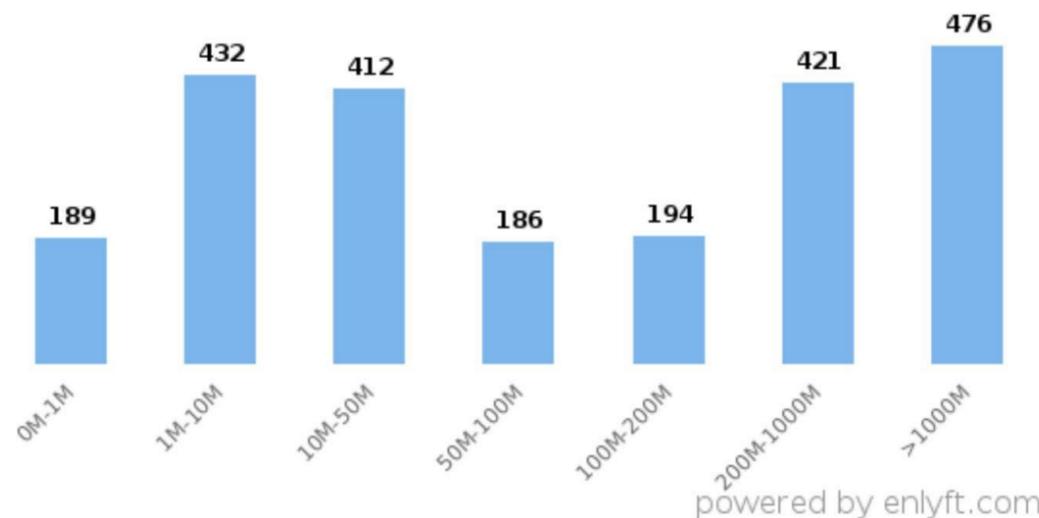
Now showing 1 - 10 of 5374

Trust	Publication	Details	Actions
1.000	PARTICLE PRODUCTION IN A STRONG, SLOWLY-VARYING MAGNETIC FIELD WITH AN APPLICATION TO ASTROPHYSICS	PID Type: enrich PID Value: http://hdl.handle.net/11362/12549	<input checked="" type="checkbox"/> Accept suggestion <input type="checkbox"/> Ignore suggestion <input type="checkbox"/> Reject suggestion
1.000	GESTIONE DI UN TERRITORIO AD ALTO RISCHIO IDROGEOLOGICO E RIFLESSI SU CONSERVAZIONE E FRUIZIONE DELL'HERITAGE IN ESSO DISLOCATO	PID Type: enrich PID Value: 11362/12549	<input checked="" type="checkbox"/> Accept suggestion <input type="checkbox"/> Ignore suggestion <input type="checkbox"/> Reject suggestion
1.000	Numerical investigation of evaporation and condensation of thin films in conjugated heat transfer systems	PID Type: enrich PID Value: 11362/12549	<input checked="" type="checkbox"/> Accept suggestion <input type="checkbox"/> Ignore suggestion <input type="checkbox"/> Reject suggestion
1.000	Il lavoro in ospedale. Buone pratiche in campo sanitario	PID Type: enrich	<input checked="" type="checkbox"/> Accept suggestion

Distribution of companies that use dSPACE based on company size (Revenue)

Of all the customers that are using dSPACE, 44% are small (<\$50M), 9% are medium-sized and 38% are large (>\$1000M).

Distribution of companies using dSPACE by Revenue



4SCIENCE
Share your knowledge

Ingred.io mobile app on enhancing food & cosmetics

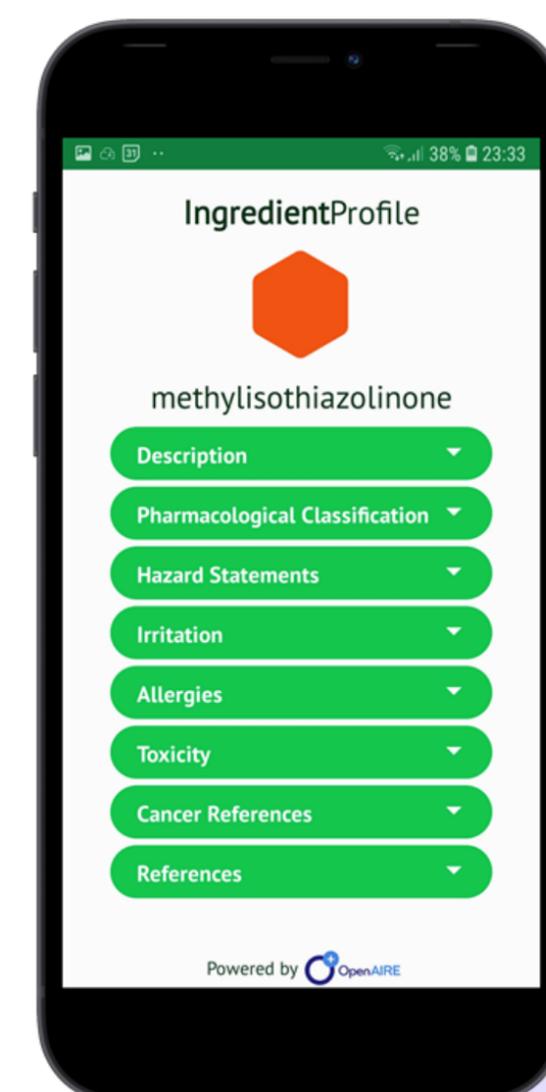
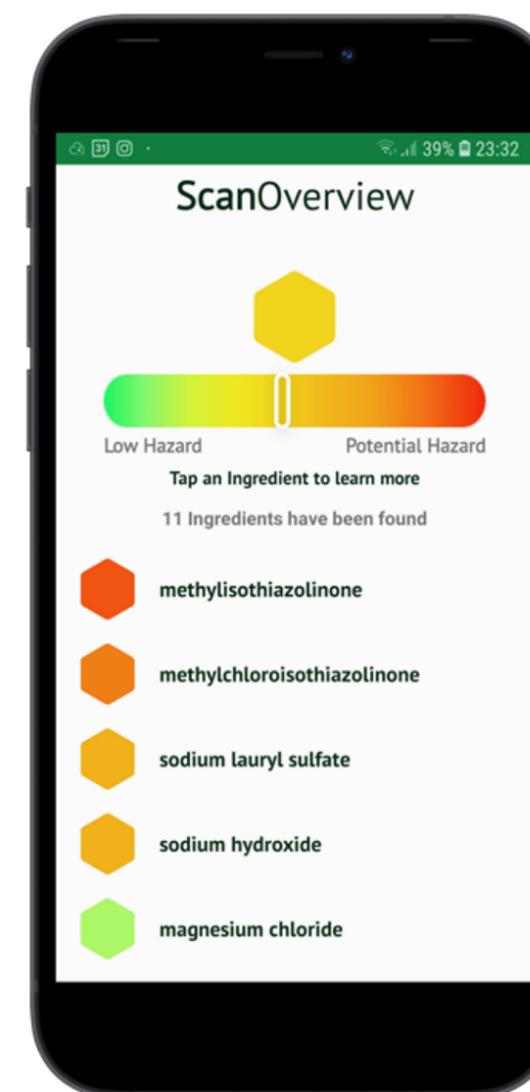
Available on

Google Play Store: [Download](#)

Apple Store: [Download](#)

Service used : [OpenAIRE Research Graph](#)

Market : 300 million people in EU & US buy organic products. Out of them, a 70% (~200 m) have a smartphone and have access to the internet daily. **US**, **Germany** and **France** organic market is **€27.1**, **€7.9** and **€4.8 billion** (in market size) respectively.



Open Science Lens

Available as
Google Chrome Extension:
[Download](#)
Services used : [OpenAIRE](#)
[Research Graph](#) , [EXPLORE](#)

[Market](#)
Infinite value !

Open Access **\$763m** in 2019
and on track to grow to
around **\$850m** in 2020
(deltathink.com)

Open Science Lens

1 Identifier found

Tip: Highlight manually and right click to explore OpenAIRE results.

Publication . Jan 01, 2105

Data journals: A survey

Creators: Paolo Manghi

Funded by: EC | OPENAIREPLUS, EC | IMARINE, EC , ...

Related datasets: Data Journals: A Survey - Tables, O...

Organization: Istituto di Scienza e Tecnologie dell'Inf ...

[View Details](#) [All 8 versions \(3 Open Access\)](#)

Open Science Lens

6 Results Found

Tip: Highlight manually and right click to explore OpenAIRE results.

Publication . Open Access . 2021-02-01

RAC1 controls progressive movement and competitiveness of mammalian spermatozoa

Creators: Alexander Arnold, Bernhard G Herrmann

[View Details](#) [All 3 versions](#)

Publication . Open Access . 2021-02-04

Creating artificial human genomes using generative neural networks

Creators: Benji Wilmes, Aurélien Denolle, Linda Cheng...

Related software: [privacy software on GitHub in suppo...](#)

Organization: [Université Paris Diderot - Paris 7](#)

[View Details](#) [All 5 versions](#)

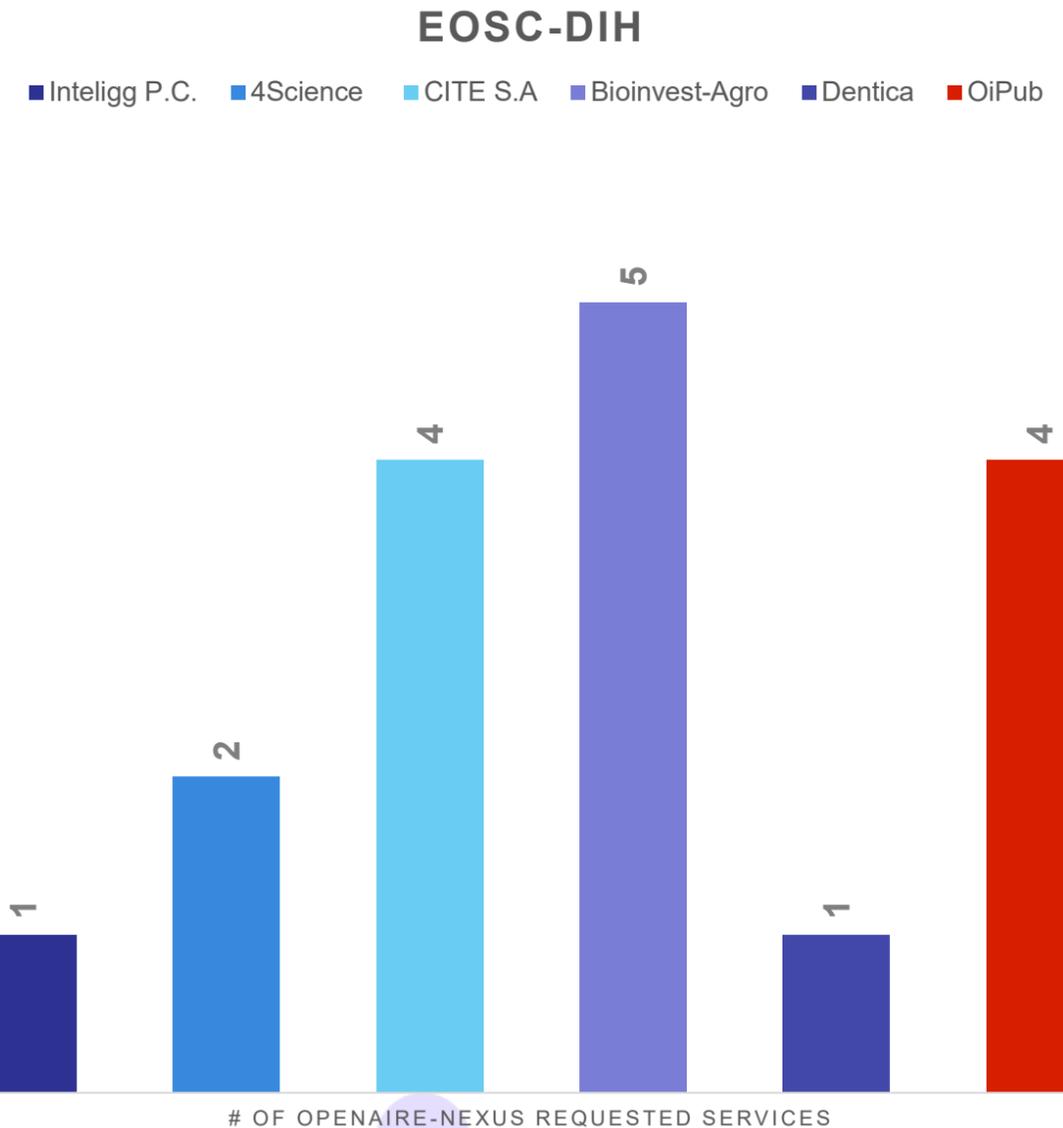
Publication . Open Access . 2020-08-01

Mapping gene flow between ancient hominins through demography-aware inference of the ancestral recombination graph

Creators: [Stephan L. Huber](#), [Stephan L. Huber](#)...

EOSC-FUTURE, EOSC-DIH, INFRAEOSC-07

- Promoted and supported the EOSC services co-usage and uptake by EOSC-DIH applicants before they apply to EOSC-DIH pilots resulting to 12 INFRAEOSC-07 services requested 15 times, 9 OpenAIRE-Nexus services requested 17 times by 6 SMEs in the EOSC-DIH business pilots
- Provided feedback on EOSC-DIH applicants and scheduled 1-1 calls to promote the uptake of additional INFRAEOSC-07 services
- **Sustainability: 4/6 applicants** and their services are a **continuation** of OpenAIRE-Advance Open Innovation Call **activities**



Support and training

Provide usage and technical support

- Via direct communication with OpenAIRE-Nexus service managers
- Via existing support material, webinars, community calls
- Bi-weekly 1:1 personalized calls

Disseminate outcomes and promote SMEs

- Via events, conferences
- Publish blog posts on OpenAIRE portal
- Diffuse the information and the innovations through OpenAIRE communication channels (newsletter, social media)

Explore and promote the continuation and sustainability of solutions

- Engage with SMEs and create a collaborative innovative culture
- Explore for business opportunities
- Examine solutions enhancements



@openaire_eu
#OpenAIRE-Nexus

THANK YOU

OpenAIRE-NEXUS team

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