

This project has received funding from
the European Union's Horizon 2020
Research and Innovation Programme
under Grant Agreement No 824323



European forum and oBsErVatory for OPEN science in transport

Webinar on the BEOPEN TOPOS

26/03/2021

The BEOPEN TOPOS for Organisations

Alessia Bardi, OpenAIRE/CNR-ISTI

Harry Dimitropoulos, OpenAIRE/ATHENA

Outline

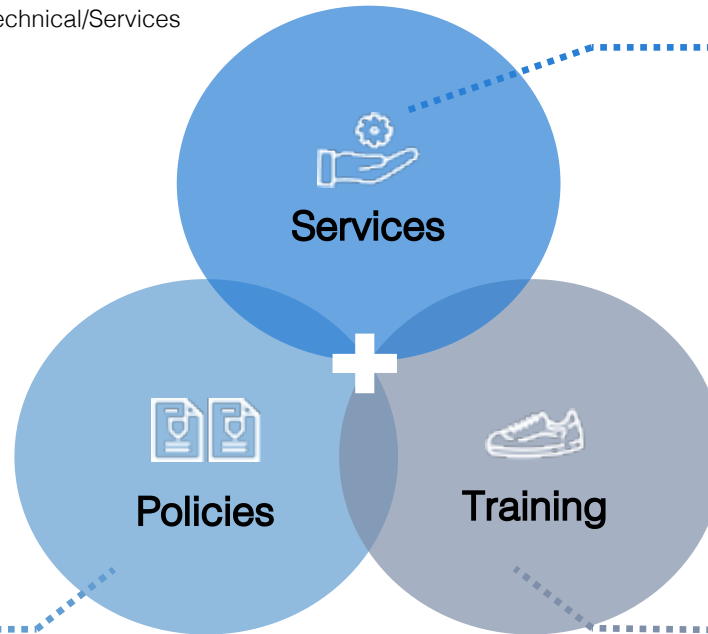
1. OpenAIRE and the Research Graph
2. Methodology for the set up of the TOPOS for organisations
3. Functionality of the TOPOS for organisations
4. Q&As

The Open Science Infrastructure for Research in Europe



Aligning

- *Standard*
- *Guidelines*
- *Practices*
- *Workflows*



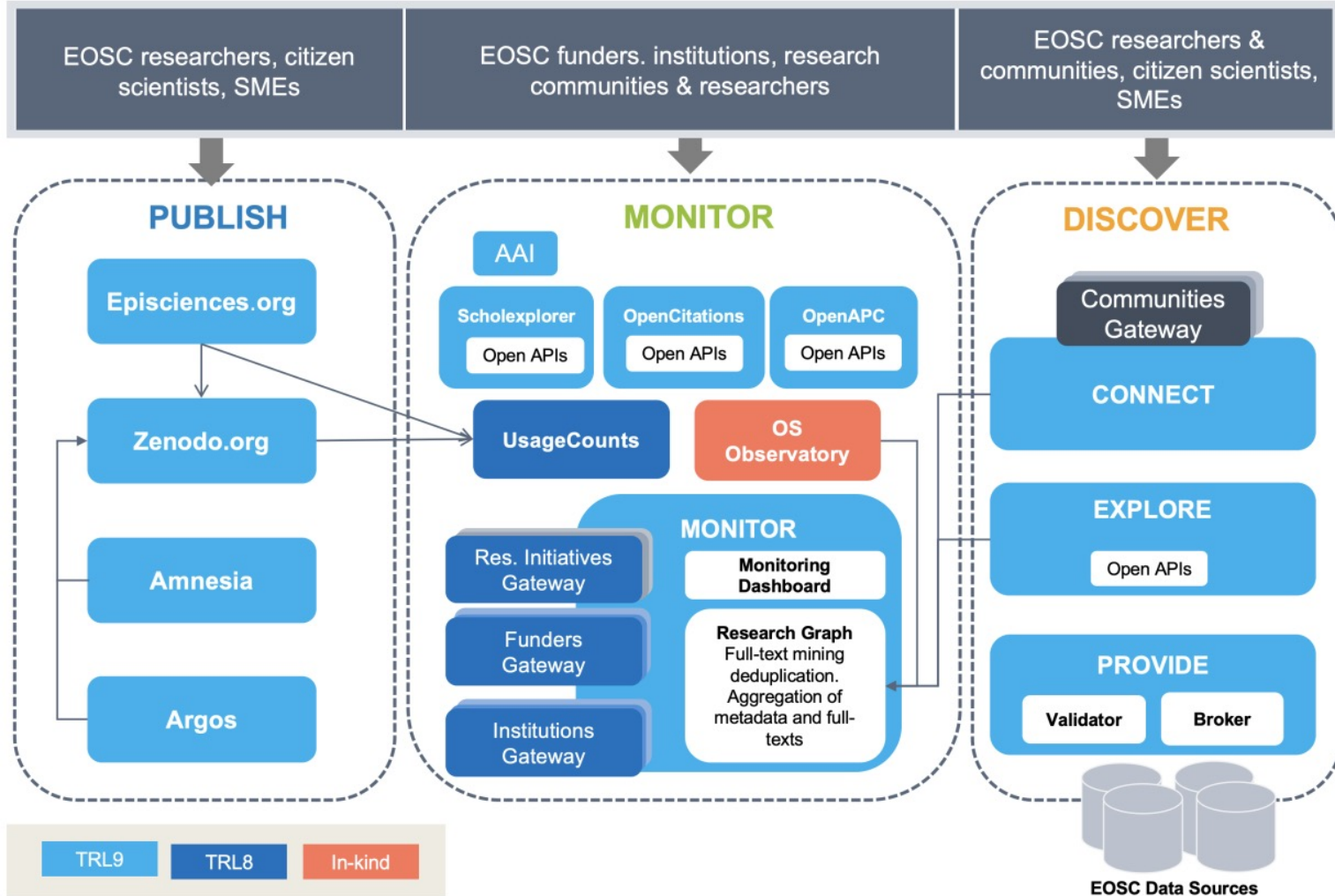
Connecting

- *Establishing infrastructure*
- *Added value services*

Empowering:

- *Open Science*
- *Open Access*
- *Policies*
- *Services*

OpenAIRE service portfolio



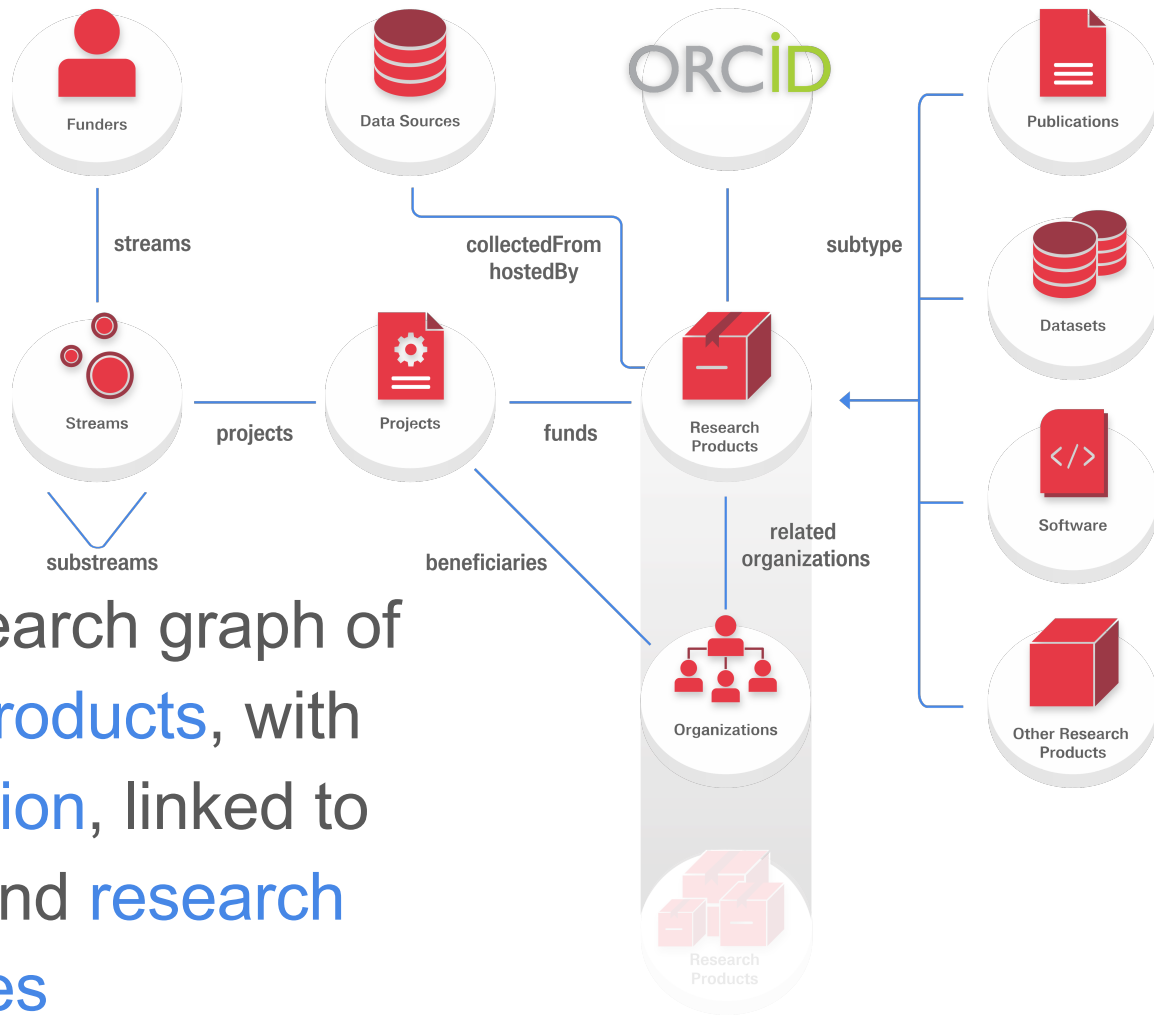


[HTTPS://GRAPH.OPENAIRE.EU](https://graph.openaire.eu)



Learn more at graph.openaire.eu

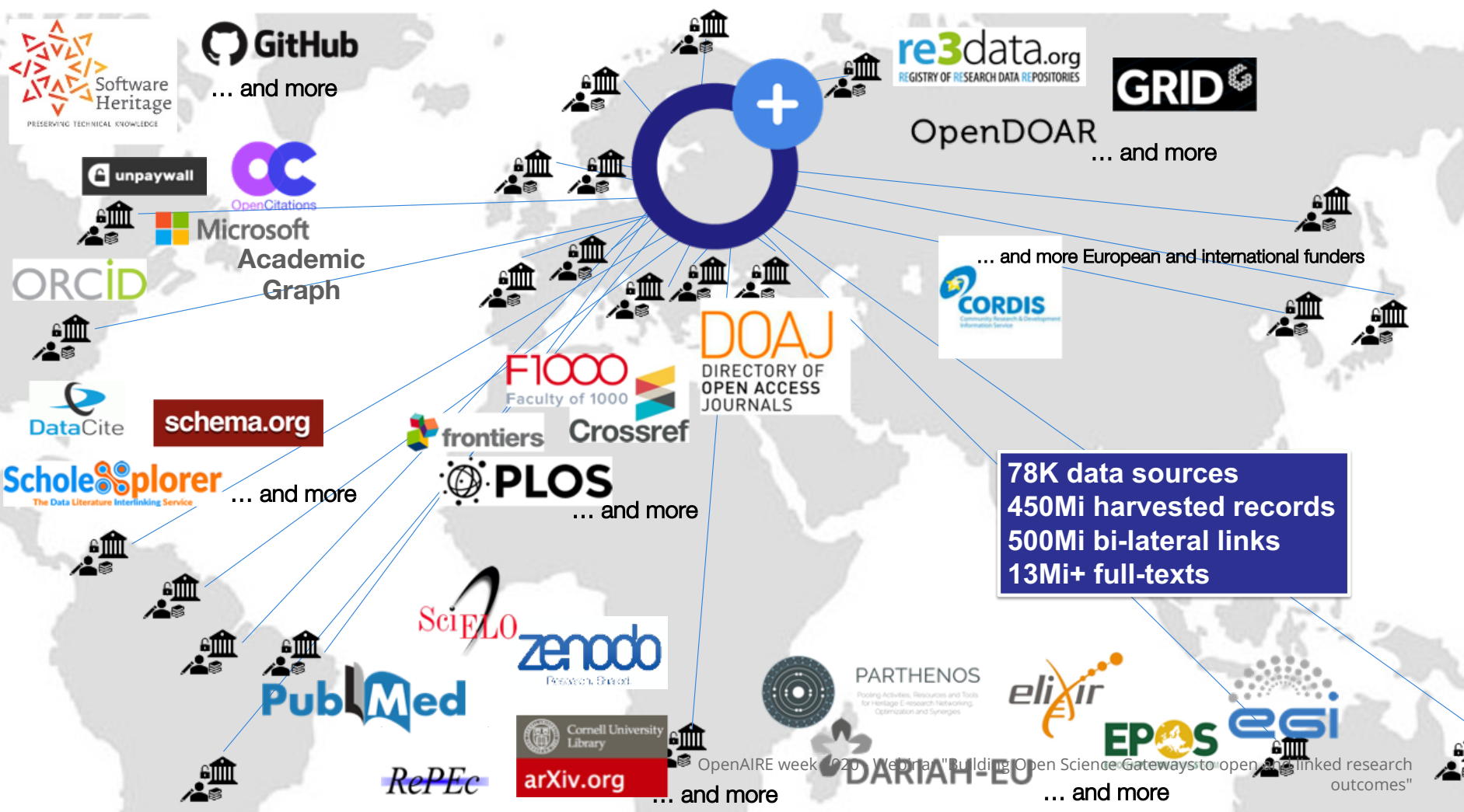
An **open metadata** research graph of interlinked **scientific products**, with **access rights information**, linked to **funding information** and **research communities**



Graph: model for the representation of information

OpenAIRE uses it to represent **objects** in the scholarly communication domain and the **relationships** that exist among them.

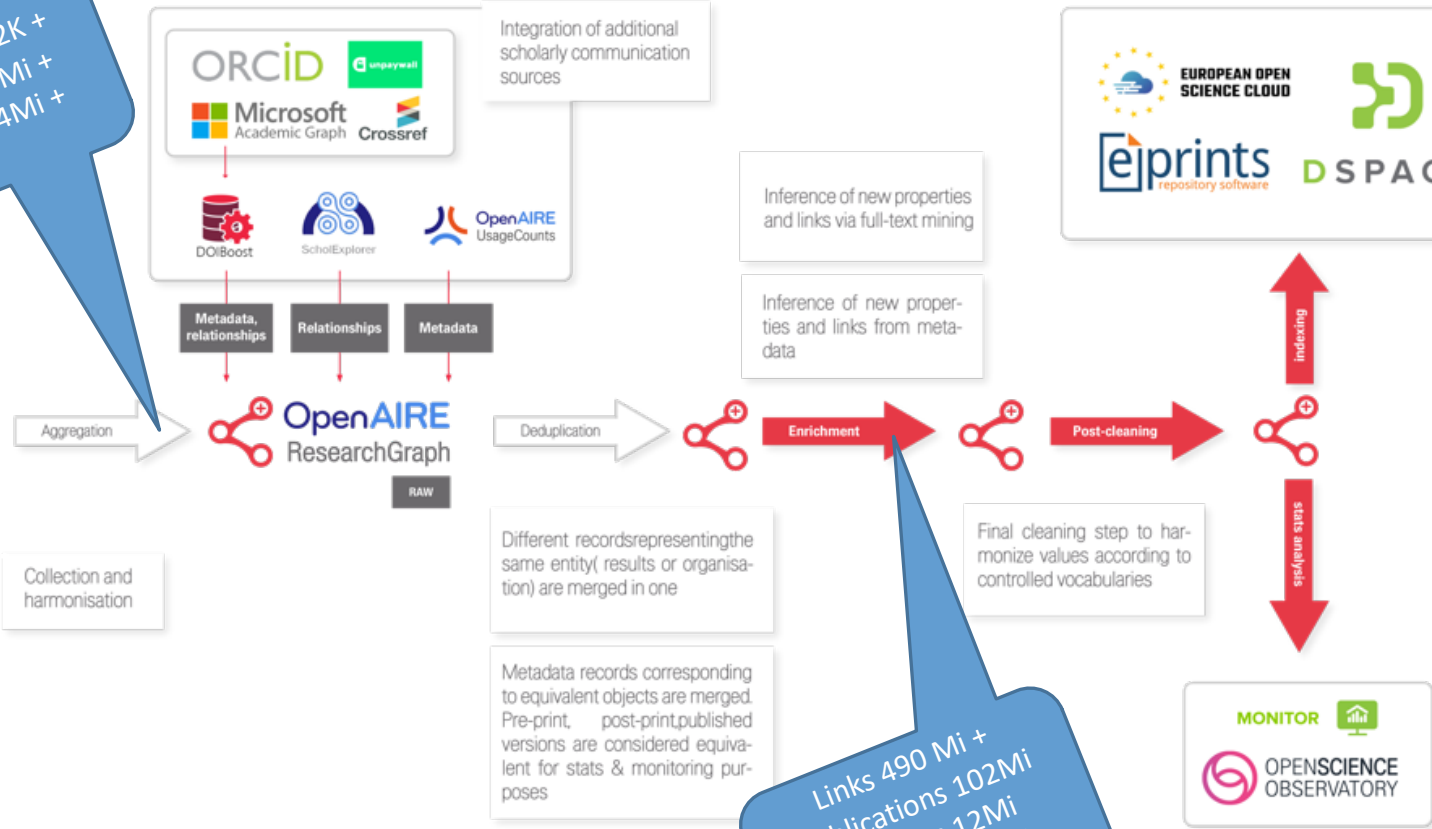
Edges of the graph are annotated with a label that specifies the **semantics** of the relationships between two objects, each represented as a node in the graph.



OpenAIRE Research Graph the supply chain

Data sources 12K +
Products 400Mi +
Full-texts: 14Mi +

Data sources



CONNECT EXPLORE DEVELOP

Links 490 Mi +
Publications 102Mi
Datasets 12Mi
Software 200K
Others 7Mi

Integration with third-party services

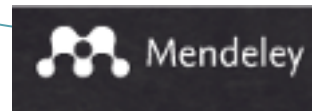


The Graph as EOSC Resource Catalogue



Research infrastructures

ORCID *Coming soon*
Connecting Research and Researchers



OpenAIRE Research Graph dumps

The whole Research Graph
COVID-19 related products

Products of communities,
infrastructures, and
initiatives

Funded products

DOIBoost

Scholexplorer

zenodo Search Upload Communities admin@openaire.eu

OpenAIRE Research Graph

Recent uploads

Search OpenAIRE Research Graph

November 11, 2020 (4.0) Dataset Open Access

OpenAIRE ScholeXplorer Service: Scholix JSON Dump

La Bruzzo, Sandro; Manghi, Paolo;

This dataset contains the GZ-compressed dump of the Scholix links (schema Version 3) exposed by the OpenAIRE ScholeXplorer service. The dataset consists of 445+Mi bi-directional links (i.e. 890+Mi directed links) between literature-dataset and dataset-dataset involving 17+ Mi literature objects

Uploaded on November 12, 2020

3 more version(s) exist for this record

View

November 9, 2020 (v1) Poster Open Access

OpenAIRE Usage Counts. The analytics service of OpenAIRE Research Graph

Dimitris Pierrakos; Andreas Czerniak; Jochen Schirrwagen;

Usage metrics for all types of scholarly output are one of the measures to assess Open Access impact and are a value added service of Open Access repositories. OpenAIRE has a successful record in providing usage metrics for for a large number of repositories from around the world. OpenAIRE²

Uploaded on November 11, 2020

View

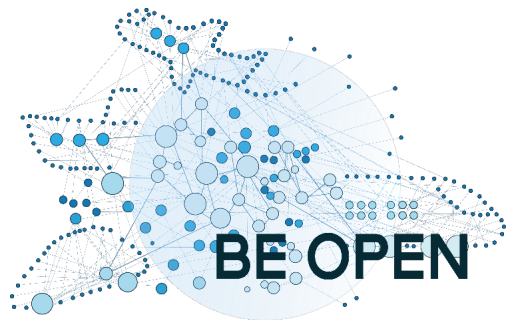
November 3, 2020 (1.0.0) Other Open Access

OpenAIRE Research Graph: Json sch

March 2021
13000+ views 5000+ downloads

<https://zenodo.org/communities/openaire-research-graph>

<https://develop.openaire.eu>



TOPOS OBSERVATORY FOR ORGANISATIONS



Research
community



Institutions



Content providers



Funders



Research
admins



Research
Infrastructures

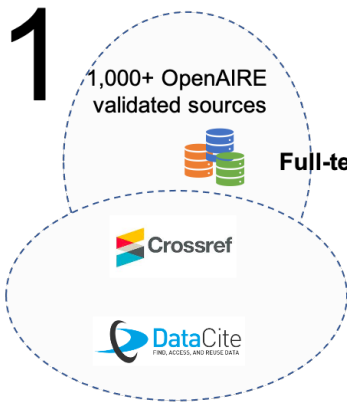
MONITOR

ON DEMAND

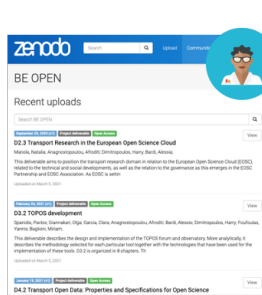
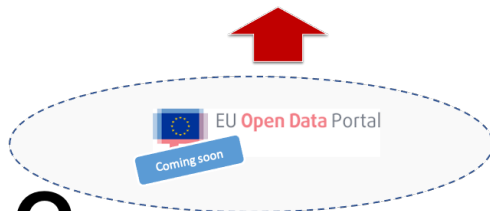
ON DEMAND

A single entry point for discovering research products available in the OpenAIRE Research Graph relevant to Transport Research, with Open Science services & tools for organisations

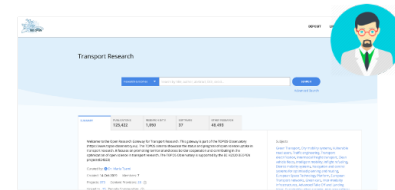
Sources and methodology



Full-text mining



2 Zenodo BE OPEN community
+ Other Zenodo communities related to Transport Research



4 Open Research Gateway on Transport Research
Discover, navigate, link

5 APIs
REST, Zenodo dump

Input for the TOPOS for individuals (Scipedia)

OpenAIRE

How to identify Transport research products among those in the OpenAIRE Research Graph



Gateway curators

Keywords

Glossary for transport statistics 5th edition, co-published by Eurostat, UN and ITF

Projects

From the 22 funders integrated in OpenAIRE

Data sources

E.g. thematic repositories, archives and journals

Zenodo communities

One “main” Zenodo community managed by the BE OPEN consortium + other communities in the field

Organizations

Organizations in the field: we look for them in the affiliations



Researchers

Link

Link products in OpenAIRE, Crossref, Datacite, ORCID to the community, also in bulk

Propagation

If a community result is supplemented by another research product, then the latter is also added in the community gateway

Full-text mining

Links to projects
Affiliations
Document classification



OpenAIRE algorithms

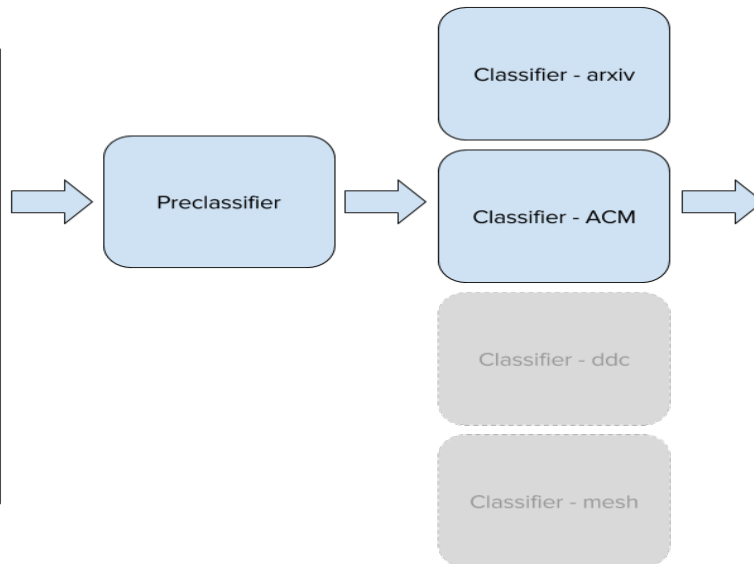
OpenAIRE's Document Classification



Mines the full-text of publications to perform content-based classification using giving taxonomies

- arXiv
- MeSH (Medical Subject Headings)
- ACM
- DDC (Dewey Decimal Classification)

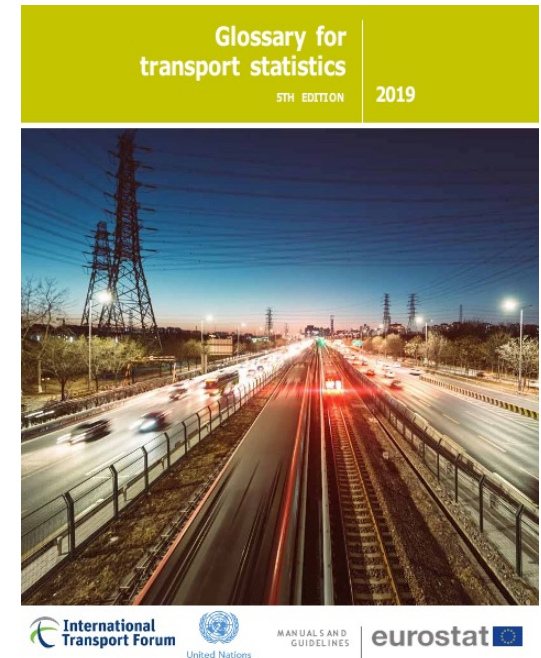
Audio information plays a rather important role in the increasing digital content that is available today, resulting in a need for methodologies that automatically analyze such content: audio event recognition for home automations and surveillance systems, speech recognition, music information retrieval, multimodal analysis (e.g. audio-visual analysis of online videos for content-based recommendation), etc. This paper presents pyAudioAnalysis, an open-source Python library that provides a wide range of audio analysis procedures including: feature extraction, classification of audio signals, supervised and unsupervised segmentation and content visualization. pyAudioAnalysis is licensed under the Apache License and is available at GitHub (<https://github.com/tyiannak/pyAudioAnalysis/>). Here we present the theoretical background behind the wide range of the implemented methodologies, along with evaluation metrics for some of the methods. pyAudioAnalysis has been already used in several audio analysis research applications: smart-home functionalities through audio event detection, speech emotion recognition, depression classification based on audio-visual features, music segmentation, multimodal content-based movie recommendation and health applications (e.g. monitoring eating habits). The feedback provided from all these particular audio applications has led to practical enhancement of the library.



```
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  "[\"ComputingMethodologies_IMAGEPROCESSING  
ANDCOMPUTERVISION\"]", "confidence": 0.914},  
  ...  
{"taxonomy": "arXivClasses", "class": "[\"Computer  
Science\\,\"Sound\"]", "confidence": 0.99},  
{"taxonomy": "arXivClasses", "class": "[\"Computer  
Science\\,\"Multimedia\"]", "confidence": 0.833}, ...
```

Transport Classifier

- Taxonomy based on the latest (5th) edition of the “Glossary for Transport Statistics”
 - A. Railway Transport
 - B. Road Transport
 - C. Inland Waterway Transport
 - D. Pipeline Transport
 - E. Maritime Transport
 - F. Air Transport
 - G. Intermodal Freight Transport
 - H. Energy Consumption
 - I. Environmental Impact of Transport
 - J. Passenger Mobility
- No annotated/labelled large corpus of publications in transport research for training the classifier.
- Seed the classifier with publications and metadata from the Be Open Research Gateway.



Research outcomes ▾ Search by title, author, abstract, DOI, orcid...

SEARCH

[Advanced Search](#)

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SUMMARY	PUBLICATIONS 93,858	RESEARCH DATA 773	SOFTWARE 24	OTHER RESEARCH 36,500
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Welcome to the Open Research Gateway for Transport Research. This gateway is part of the TOPOS Observatory (<https://www.topos-observatory.eu>). The TOPOS aims to showcase the status and progress of open science uptake in transport research. It focuses on promoting territorial and cross border cooperation and contributing in the optimization of open science in transport research. The TOPOS Observatory is supported by the EC H2020 BEOPEN project (824323)

Curated by: [Dr. Maria Tsami](#), [Pavlos Spanidis](#)

Created: 14-Oct-2019 Members: 7

Projects: 370 Content Providers: 23

Linked to 15 Zenodo Communities

Subjects

[Green Transport](#), [City mobility systems](#), [Vulnerable road users](#), [Traffic engineering](#), [Transport electrification](#), [Intermodal freight transport](#), [Clean vehicle fleets](#), [Intelligent mobility](#), [Inflight refueling](#), [District mobility systems](#), [Navigation and control systems for optimised planning and routing](#), [European Space Technology Platform](#), [European Transport networks](#), [Green cars](#), [Inter-modality infrastructures](#), [Advanced Take Off and Landing Ideas](#), [Sustainable urban systems](#), [port-area railway networks](#), [Innovative forms of urban transport](#), [Alliance for Logistics Innovation through Collaboration in Europe](#)

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Research community

Content providers

Institutions

Research admins

Functionality of the TOPOS Observatory for organisations


<https://beopen.openaire.eu>

Go and subscribe to add links and contribute to the growth of the community

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SUMMARY	PUBLICATIONS	RESEARCH DATA	SOFTWARE	OTHER RESEARCH
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Overview

Curators

Configuration details

Research outcomes ▾

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One tab per type of research product

SUMMARY

PUBLICATIONS 93,858	RESEARCH DATA 773	SOFTWARE 24	OTHER RESEARCH 36,500
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Research outcomes

Projects

Content providers

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SUMMARY	PUBLICATIONS 93,858	RESEARCH DATA 773	SOFTWARE 24	OTHER RESEARCH 36,500
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Quick search on all types of research outcomes, projects and content providers

Search by title, author, abstract, DOI, orcid...

SEARCH

Advanced Search

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Advanced search in

Research outcomes

Quick search

FIELD TO SEARCH

TERM

All fields

Title

Author

Author ORCID

Description

Subject

be keywords...

be keywords...

and



ADD RULE



SEARCH

Advanced search on research outcomes: specify criteria un specific fields, also in combination



Research outcomes ▾

Search by title, author, abstract, DOI, orcid...

SEARCH

Advanced Search

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SUMMARY

Welcome
(https://w
transport
optimizat
project (8

Curated b
Created: 1
Projects:
Linked to

Home > Deposit

Deposit or publish your research in Open Access

Find the appropriate repository or journal



Find the appropriate repository to deposit your research products of any type (publication, data, software, other) or to include in your data management plan. Search and browse for OpenAIRE compliant repositories registered in OpenDOAR and re3data.

Looking for Open Access journals? Find those that suit your community among the journals registered in the Directory of Open Access Journals (DOAJ). To know more, read the OpenAIRE Open Access primer (https://www.openaire.eu/oa-basics)

Deposit



Find the repository to deposit your research or use the Zenodo communities suggested by the community curators.

Publish



Find the Open Access journals that suit your community among those registered in the Directory of Open Access Journals (DOAJ).

Search by title, country, organization, subject, type...

SEARCH

Browse all

OR

USE RELATED ZENODO COMMUNITIES →

Find repositories, journals, or Zenodo communities where you can publish/deposit your research outcome

ADD LINKING SOURCES

Start searching Research Outcomes and add them to the Basket to Link

transport

OPENAIRE (1,225,846) CROSSREF (451,161) DATACITE (91,058) ORCID (0)

Year range

e.g. 1800 - e.g. 2031

1,225,846 RESEARCH OUTCOMES, PAGE 1 OF 245,170

1 2 3 4 5 >

Result type (4)

- publication (1,135,276)
- other (64,751)
- dataset (25,121)
- software (698)

Funder (22)

- European Commission (19,297)
- National Institutes of ... (12,311)
- National Science Founda... (10,179)
- Natural Sciences and Eng... (3,837)
- Research Council UK (3,235)
- Wellcome Trust (3,163)

[+ View all](#)

- other
European Transport / Trasporti Europei
Publisher EUT Edizioni Università di Trieste Published in 2008
- publication
Statistične informacije: 22, Transport: 22, Transport: Rapid reports:
Publisher Statistični urad Republike Slovenije
- publication
DATAR sur le Transport: Transport voyageurs, comparaison internationale
Authors Paola Villani Published in 2003
- publication
Review on the comparison of external costs of intermodal transport and unimodal road transport

LINKS BASKET

SOURCES (0)

Research results to link

[Upload a DOI's CSV file](#)

No Sources added yet. Start adding sources from the left panel. Or upload a DOI's CSV file.

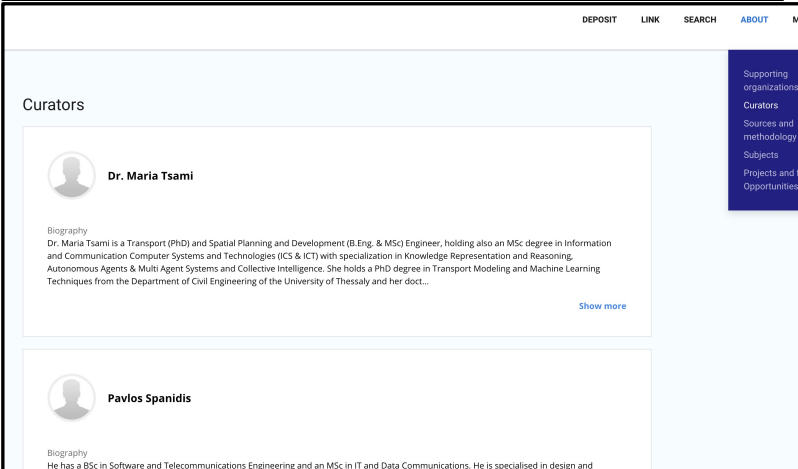
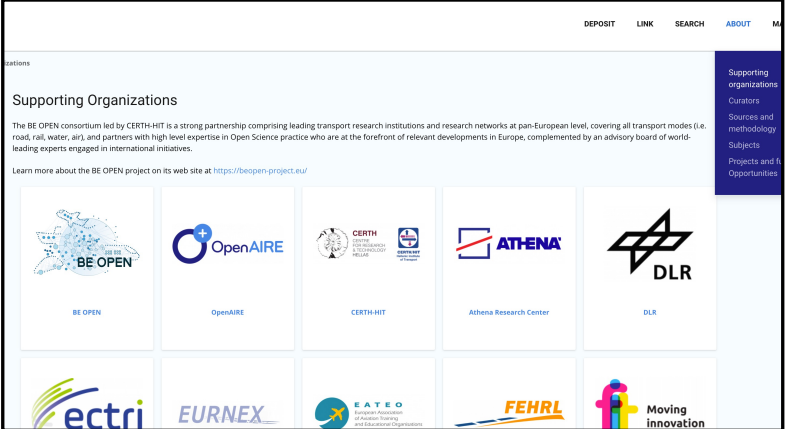
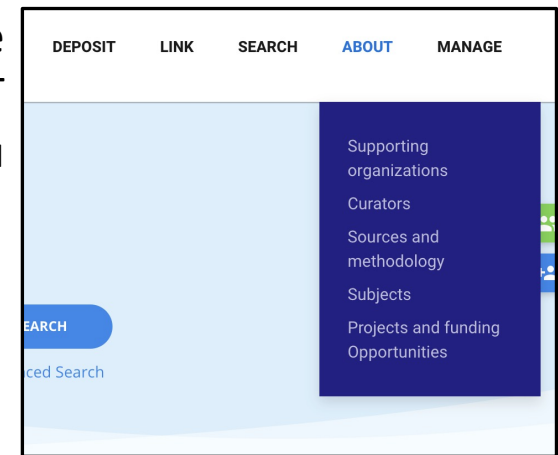
CONTINUE TO - LINK TO

Entities to link with the sources



Create links between research products, links to projects, or add missing products in the TOPOS: you need to login and subscribe

Learn more about the TOPOS in the ABOUT menu



The BE OPEN project

BE OPEN is a 30-months Horizon 2020 Coordination and Support Action that started on 01 January 2019, and addresses the call MG-4-2-2018 Building Open Science platforms in transport research.

BE OPEN aims to promote Open Science in transport research and assist in regulating and standardizing it. The overarching vision of BE OPEN is to create a common understanding on the practical impact of Open Science and to identify and put in place the mechanisms to make it a reality in transport research by the setting up and implementation of TOPOS, the Transport Observatory /Forum for Promoting Open Science.

Visit the [project web site](#) to learn more about BE OPEN and be up to date with activities, news, and events.

European Open Science Cloud

BE OPEN is one of the projects contributing to the development of the European Open Science Cloud (<https://eosc-portal.eu/about/eosc-projects>).

The activities for the definition of an EOSC for Transport research does not end with the end of the BE OPEN project: stay tuned and discover all the opportunities also in the context of the upcoming funding programme of the [European Commission Horizon Europe](#).

Sources and methodology

OpenAIRE builds an open scholarly graph of research products (publications, datasets, software and other types of research products), linked to each other and to fundings, projects and organizations. The information used to build the graph is collected from the OpenAIRE network of trusted content providers and is inferred by OpenAIRE algorithms.

The trusted content providers of OpenAIRE research data archives, journals and publishers organisations and data sources are collected national and international funders.

How can I get and re-use the data available in the gateway?

The OpenAIRE Research Graph and its sub parts are Open Access resources with a CC-BY license.

Depending on your use case you may want to get a dump of the research products available in this gateway:

- **Dumps** for research communities and infrastructures: [DOI 10.5281/zenodo.3974604](https://doi.org/10.5281/zenodo.3974604) (look for the Transport_Research.tar file). Best use case: bulk consumption of all products of the community (e.g. for analysis, statistics, intersection with other datasets). Check out the [documentation page](#) to learn more about all the different dumps produced by OpenAIRE.
- **Search API** using the parameter `community=open` to get only the research products available in the gateway. Best use case: selective access to research products with queries that are expected to return a limited set of results (e.g. all community products funded by the European Commission; all research products published after a given date). Check out the [documentation page](#) to learn more about the OpenAIRE HTTP Search API.

How to join OpenAIRE with your data source

Read the [guide](#) on how your data source (e.g. repository, journal, archive, CRIS) can comply with the OpenAIRE guidelines. According to the [OpenAIRE Content Acquisition policies](#), any source providing metadata records about research products is welcome in the OpenAIRE network!

Register the data source with the [OpenAIRE PROVIDE Dashboard](#) and discover all services offered for free by OpenAIRE to become a building block of the Open Research community and the European Open Science Cloud.

Let us know if you are a thematic source for this community writing an email to rcd-helpdesk@openaire.eu. If the data source manages objects of different domains, those that are relevant for this community will be automatically identified thanks to the criteria described above. If this does not happen, then contact us at rcd-helpdesk@openaire.eu and help us fine tuning the OpenAIRE algorithms!

How to suggest a thematic data source

Write an email to rcd-helpdesk@openaire.eu to suggest a thematic data source for this community. The gateway curators and the OpenAIRE team will get in touch with the responsible organisation and will guide them in the integration process.

Should the data be published elsewhere (e.g. journals, conferences) before it can appear in the gateway?



Research
community

MONITOR

Uptake of Open Science
publishing practices in
the community



**DEPOSIT
ANYTHING**

EXPLORE

Search for all research
products of your
community

Link related research
products and contribute
for a complete record of
research of your
community

CONNECT

DEVELOP

Use OpenAIRE API and
content to build
domain-specific services

Content providers



Institutional Repository

elib

DLR publication server

Web page: <http://elib.dlr.de/>

OPENAIRE 2.0+ (DRIVER OA, EC FUNDING)

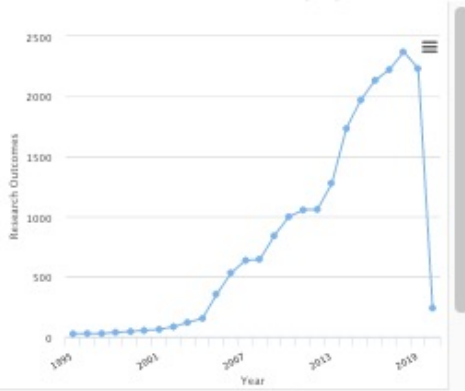


SUMMARY	RELATED CONTENT PROVIDERS	PUBLICATIONS	OTHER RESEARCH	STATISTICS
		22,623	260	

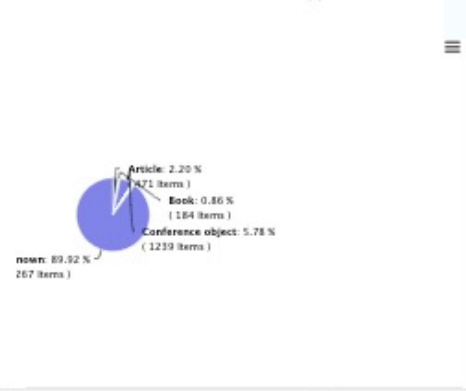
0 Downloads	162 OpenAIRE views	0 Total views
----------------	-----------------------	------------------

Powered by OpenAIRE UsageCounts

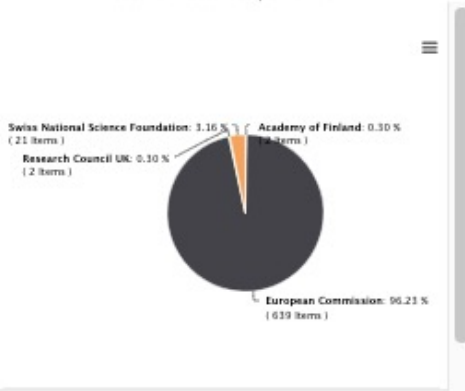
Produced research outcomes per year



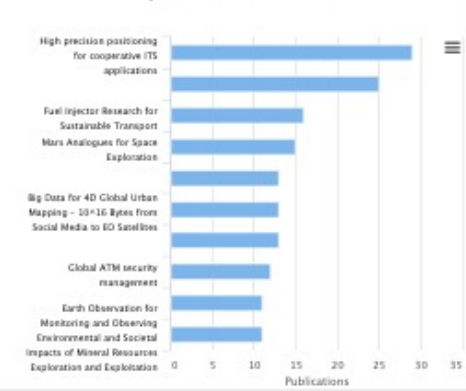
Research outcomes Types



Research outcomes per funder



Projects with most Publications





Content providers

Institutional Repository
RepositoriUM
Universidade do Minho: RepositoriUM

Web page: <https://repositorium.sdum.uminho.pt/>

OPENAIRE PUBREPOS V4.0

9,211,624

SUMMARY	RELATED CONTENT PROVIDERS	PUBLICATIONS	OTHER RESEARCH	STATISTICS
		63,107	1,488	

Description
Repository of the University of Minho, Portugal.

Subjects
Science General, Technology General, Arts and Humanities General, Social Sciences General

2,482,565 Downloads | 1,694 OpenAIRE views | 6,727,365 Total views

from OpenAIRE via Highcharts (date: 20/1/2021)

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OpenAIRE | **PROVIDE** For more services for content providers: <https://provide.openaire.eu>



Institutions

Organization

Deutsches Zentrum für Luft-und Raumfahrt

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Country: Germany



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- [↓ Other Research Products \(CSV\)](#)

FUNDING / PROJECTS

869

CONTENT PROVIDERS

1

PUBLICATIONS

22,857

SOFTWARE

1

OTHER RESEARCH

270

Filter by Funder:

European Commission **Research Council UK**

869 PROJECTS, PAGE 1 OF 174

Project . 2008 - 2010

NANOSICON (High-temperature stable nano-structured silicides for highly efficient thermoger

Funder: EC Project Code: 221660

Partners: Deutsches Zentrum für Luft-und Raumfahrt

Project . 2020 - 2021

MSCA DE 2020 (MSCA 2020 - Achieving more together)

Download funder report

Select a funder to download report

European Commission

Research Council UK

- [↓ All Research Outcomes \(CSV\)](#)
- [↓ Publications \(CSV\)](#)
- [↓ Research Data \(CSV\)](#)
- [↓ Software \(CSV\)](#)
- [↓ Other Research Products \(CSV\)](#)



Research admins

Integration with the SyGMA portal (continuous reporting of publications and open data)



Project . 2017 - 2020 . Closed

AUTOPILOT

AUTOMated driving Progressed by Interr

OPEN ACCESS MANDATE FOR PUBLICATIONS AND RESEARCH DATA EUROPEAN COMMISSION

Funder: **European Commission** Project code: 731993 Call for proposal: H2020-IOT-2016
Funded under: H2020 | IA Overall Budget: 26,555,500 EUR Funder Contribution: 19,925,000 EUR
Status: Closed

Start Date 01 Jan 2017 End Date 29 Feb 2020

[Detailed project information \(CORDIS\) →](#)

SUMMARY	PUBLICATIONS	RESEARCH DATA	SOFTWARE	OTHER RESEARCH	STATISTICS
	24	64	0	0	

Description

Automated driving is expected to increase safety, provide more comfort and create many new business opportunities for mobility services. The market size is expected to grow gradually reaching 50% of the market in 2035. The IoT is about enabling connections between objects or "things"; it's about connecting anything, anytime, anywhere, using any service over any network. There is little doubt that these vehicles will be part of the IoT revolution. Indeed, connectivity and IoT have the capacity for disruptive impacts on highly and fully automated driving along all value chains towards a global vision of Smart Anything Everywhere. In order to stay competitive, the ...

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4,531

Project metrics are derived from aggregating individual research results metrics.

921	3	3,607
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Monthly views

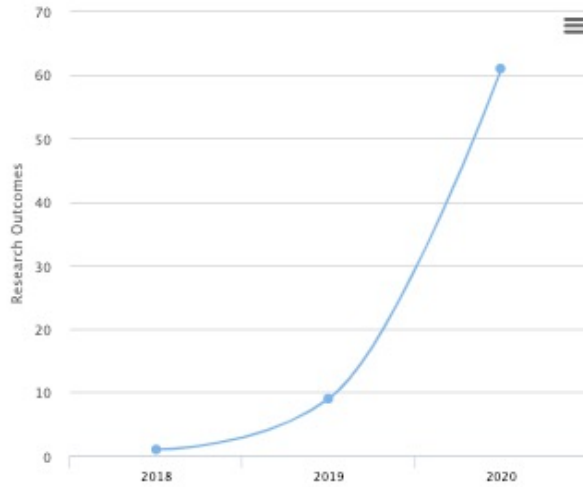
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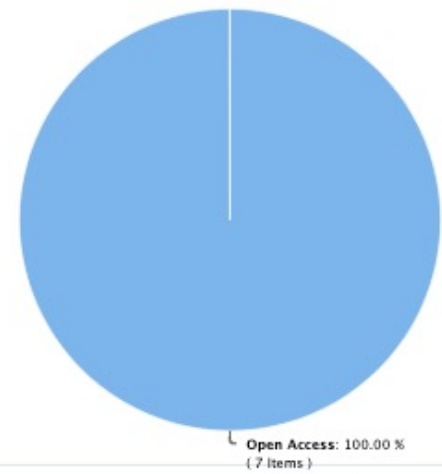
Research admins

SUMMARY	PUBLICATIONS 24	RESEARCH DATA 64	SOFTWARE 0	OTHER RESEARCH 0	STATISTICS
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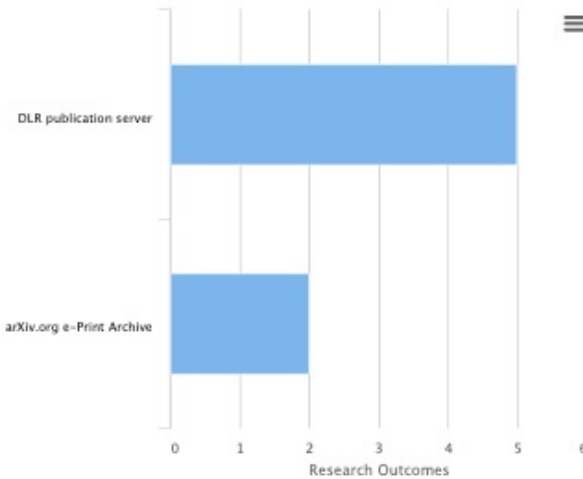
Produced research outcomes per year



Access mode of research outcomes



Research outcomes per datasource





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Any questions?

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