



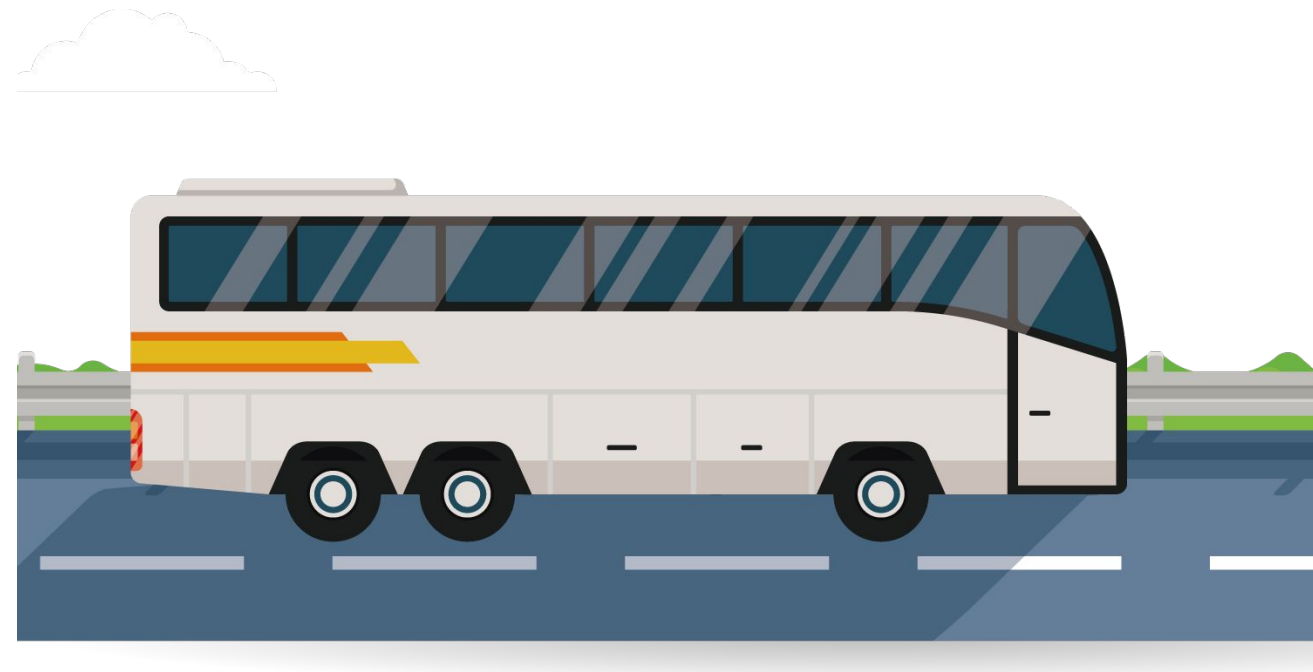
Pablo Panero

pablo.panero@cern.ch

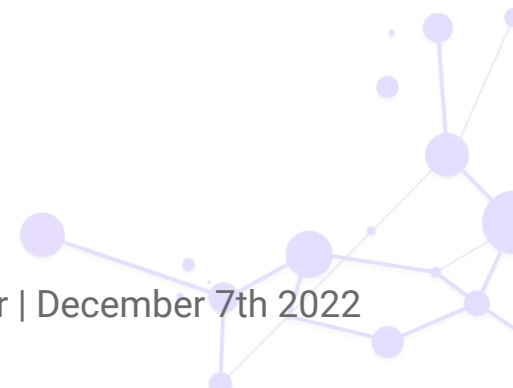
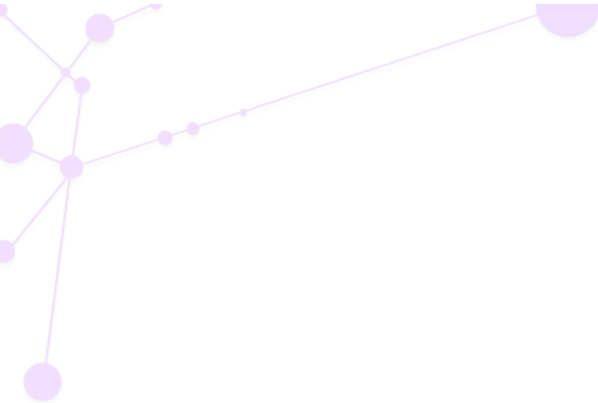
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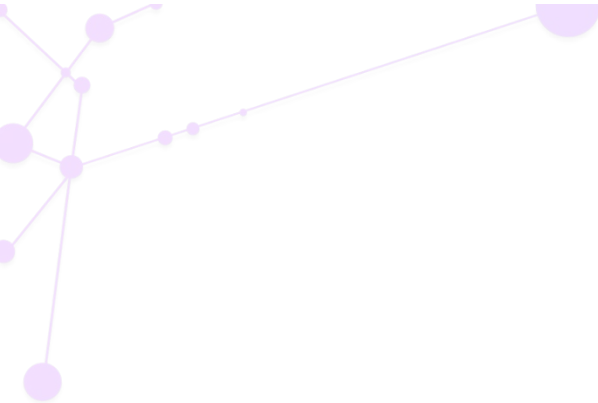
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The result?

50% of the links in papers are inaccessible after 10 years

89% of 53 landmark cancer research papers are irreproducible

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How Do Astronomers Share Data? Reliability and Persistence of Datasets Linked in AAS Publications and a Qualitative Study of Data Practices among US Astronomers

Alberto Pepe^{1,2*}, Alyssa Goodman^{1,2}, August Muench¹, Merce Crosas², Christopher Erdmann¹

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Abstract

We analyze data sharing practices of astronomers over the past fifteen years. An analysis of URL links embedded in papers published by the American Astronomical Society reveals that the total number of links included in the literature rose dramatically from 1997 until 2005, when it leveled off at around 1500 per year. The analysis also shows that the availability of linked material decays with time: in 2011, 44% of links published a decade earlier, in 2001, were broken. A rough analysis of link types reveals that links to data hosted on astronomers' personal websites become unreachable much faster than links to datasets on curated institutional sites. To gauge astronomers' current data sharing practices and preferences further, we performed in-depth interviews with 12 scientists and online surveys with 173 scientists, all at a large astrophysical research institute in the United States: the Harvard-Smithsonian Center for Astrophysics, in Cambridge, MA. Both the in-depth interviews and the online survey indicate that, in principle, there is no philosophical objection to data-sharing among astronomers at this institution. Key reasons that more data are not presently shared more efficiently in astronomy include: the difficulty of sharing large data sets; over reliance on non-robust, non-reproducible mechanisms for sharing data (e.g. emailing it); unfamiliarity with options that make data-sharing easier (faster) and/or more robust; and, lastly, a sense that other researchers would not want the data to be shared. We conclude with a short discussion of a new effort to implement an easy-to-use, robust, system for data sharing in astronomy, at theastrodata.org, and we analyze the uptake of that system to-date.

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Introduction

No, I don't have a website where I store these data. Most of it is in various stages of mess. —An Astronomer

Astronomical observations can generate very large volumes of data, and observations taken at a particular time are by definition irreplaceable and unrepeatable. As such, making astronomical data publicly available in a structured, intelligible format is of fundamental importance to enable scientific transparency and long term data curation and preservation, facilitating data re-use [1].

To date, some of the most systematically planned data sharing in astronomical research has focused on the preservation and dissemination of observations created in so-called "sky surveys." The purpose of these surveys is to collect and measure data from extended regions of the Sky, in a systematic and controlled fashion. Modern optical sky surveys, such as the Sloan Digital Sky Survey (SDSS), the 2-Micron All-Sky Survey (2MASS), and the future Large Synoptic Survey Telescope (LSST) generate massive databases, ranging in size from hundreds of terabytes to hundreds of petabytes [2]. Surveys that rely on spectrally-resolved observations, often made with radio-wavelength interferometers, generate "3D Data Cubes" rather than "2D images," and they are already so large that it is not possible to keep all the raw data after analysis is complete.

Despite their sheer volume, the data collected in the context of large surveys represent only a portion of all the data generated in Astronomy. Most discoveries rely upon smaller studies, and/or are based on heavily-processed subsets of many surveys. In any field of scientific endeavor, many different levels of data exist [3]: from "raw" data to "processed" data, from "calibration" data to "published" data. If we imagine all data in Astronomy to be a pyramid, **primary** data from large sky surveys occupies the bottom half of the pyramid. But, as we just mentioned, these primary data are used by astronomers all over the world to produce more specific studies, where astronomers analyze and process primary data in many ways producing **derived** data.

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News in focus

Africa and elsewhere suggest that the variant is highly transmissible – spreading several times faster than Delta – and might be able to infect people who are immune to other variants.

Omicron carries a large number of mutations in its spike protein – the prime target of immune responses – and some of these changes, when present in other variants, affect the ability of antibodies to recognize the virus and block infection.

Scientists used two types of laboratory assay to test how well Omicron can evade neutralizing, or virus-blocking, antibodies. One approach uses infectious SARS-CoV-2 particles, typically isolated from individuals infected with Omicron. The other relies on pseudovirus particles – genetically modified versions of another virus (often HIV) that use the SARS-CoV-2 spike protein to infect cells.

The results from the four teams all suggest that Omicron blunts the potency of neutralizing antibodies more extensively than any other circulating SARS-CoV-2 variant. But the magnitude of Omicron's impact varied between the studies, which examined blood from people with different vaccination and infection histories.

A study led by virologist Alex Sigal, at the Africa Health Research Institute in Durban, South Africa, found that serum – the antibody-containing portion of blood – from 12 people who received the Pfizer-BioNTech vaccine was around 40 times less potent against Omicron, on average, than against an earlier strain of SARS-CoV-2. That finding was similar to the results from two other studies: one reported by Pfizer and BioNTech in an 8 December press release, and the other released on Twitter and later posted on medRxiv by virologist Sandra Ciesek at the Goethe University Frankfurt, Germany (A. Wilhelm *et al.* Preprint at medRxiv <https://doi.org/10.1101/2021.12.01.21261111>).

A fourth study, led by Murrell and virologist Daniel Sheward, also at the Karolinska Institute, reported a smaller reduction in levels of Omicron-neutralizing antibodies in two groups of participants: 17 health-care workers, who had all been previously infected, and 17 Swedish blood donors. The researchers cannot determine the vaccine status of the anonymous blood donors, but say they will soon update their paper with vaccination information from the health-care workers.

Despite differences in results – which are common in such virus-neutralization assays – the labs' conclusions are similar, and show that Omicron's effects on neutralizing antibodies are "not complete knockouts," says Murrell. "The magnitude is still a little up for question."

Booster protection

The results suggest that vaccines' effectiveness is likely to be significantly modified by Omicron – but precisely how much is hard to say. Sigal's team found that people who had already been infected before vaccination tended to have higher levels of neutralizing antibodies against Omicron than vaccinated people with no known history of infection. "I think retaining some neutralization against Omicron can only be helpful," says Moore, a co-author on the study, whose lab is also working on neutralization experiments.

A previous case of COVID-19 isn't the only way to improve antibody levels against Omicron. The Pfizer-BioNTech study found that people who had received a third dose of its vaccine had neutralizing antibody levels against Omicron comparable to those, triggered by two vaccine doses, against other SARS-CoV-2 variants. On the basis of those results, "we expect significant protection against any type of COVID-19 mediated by Omicron in individuals who have received the third vaccine", said BioNTech's chief executive, Ugur Sahin, at a press conference on 8 December.

Danny Altmann, an immunologist at Imperial College London, agrees that jacking up antibody levels with booster shots should help protect against Omicron, just as boosters have improved protection against the Delta variant. "Omicron is scarier than anything we've known before, because it's a little bit worse still than Delta. But we were in quite a bad situation with Delta in unboosted populations," Altmann says.

Jesse Bloom, an evolutionary biologist at the Fred Hutchinson Cancer Research Center in Seattle, Washington, says that it will be important to determine the extent to which immune mechanisms other than neutralizing antibodies, such as T cells, ameliorate severe disease caused by infection.

It will also be important to see further studies confirming the latest results, because variables such as the type of cell used can affect conclusions, says Pei-Yong Shi, a virologist at the University of Texas Medical Branch at Galveston. "In the next week or ten days, there will be a lot of confirmatory results coming out," he says.

HALF OF CANCER STUDIES FAIL HIGH-PROFILE REPLICATION TEST

Barriers to reproducing preclinical results included unhelpful author communication.

By Asher Mullard

The low replication rate is "frankly, outrageous", says Glenn Begley, an oncologist and co-founder of Parthenon Therapeutics in Cambridge, Massachusetts, who was not involved in the study. But it isn't unexpected, he agrees. In 2012, while at the biotech firm Amgen in Thousand Oaks, California, Begley's team helped to draw attention to growing evidence of a 'reproducibility crisis', the concern that many research findings cannot be replicated. Over the previous decade, his haematology and oncology team had been able to confirm the results of only 6 of the 53 (11%) landmark papers it assessed, despite working alongside the papers' original authors. Other analyses have reported low replication rates in drug discovery, neuroscience and psychology.

Double take

The RPCB – a partnership between the Center for Open Science and Science Exchange, a marketplace for research services in Palo

US\$2-million, 8-year attempt to replicate influential preclinical cancer research papers has released its final – and disquieting – results. Fewer than half of the experiments assessed stood up to scrutiny, reports the Reproducibility Project: Cancer Biology (RPCB) team in *elife*.¹ The project – one of the most robust reproducibility studies performed so far – documented how hurdles including vague research protocols and uncooperative authors delayed the initiative by five years and halved its scope.

"These results aren't surprising. And, simultaneously, they're shocking," says Brian Nosek, an RPCB investigator and executive director of the Center for Open Science in Charlottesville, Virginia. Although initially planning to repeat 193 experiments from 53 papers, the team ran just 50 experiments from 23 papers.

368 | Nature | Vol 600 | 16 December 2021

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50% of the links in papers are inaccessible after 10 years

Disseminate & Archive

89% of 53 landmark cancer research papers are irreproducible

Reproducibility

Ships logs from the 18th century used for climate research

Reusability

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Banda, Juan M.; Tekumalla, Ramya; Wang, Guanyu; Yu, Jingyuan; Liu, Tuo; Ding, Yuning; Artemova, Katya; Tutubalina, Elena; Chowell, Gerardo

Version 124 of the dataset. MAJOR CHANGE NOTE: The dataset files: full_dataset.tsv.gz and full_dataset_clean.tsv.gz have been split in 1 GB parts using the Linux utility called Split. So make sure to join the parts before unzipping. We had to make this change as we had huge issues uploading...

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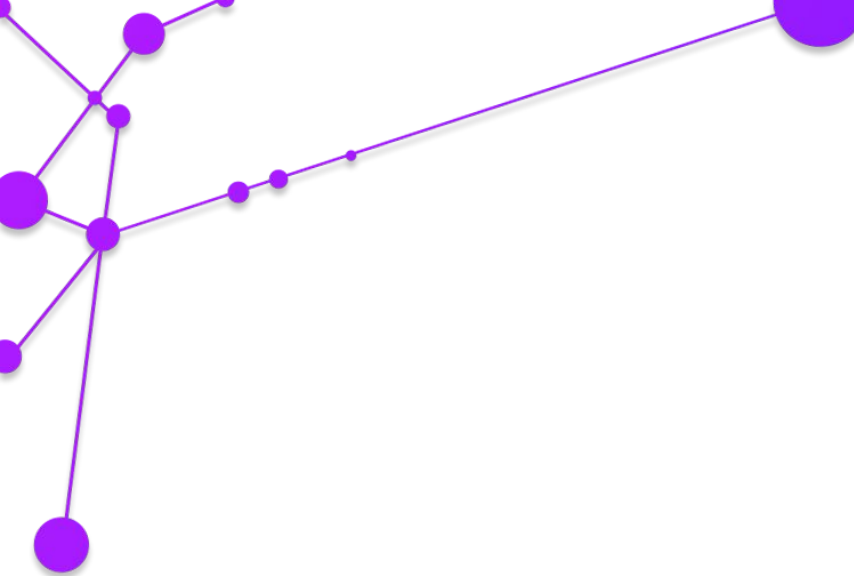
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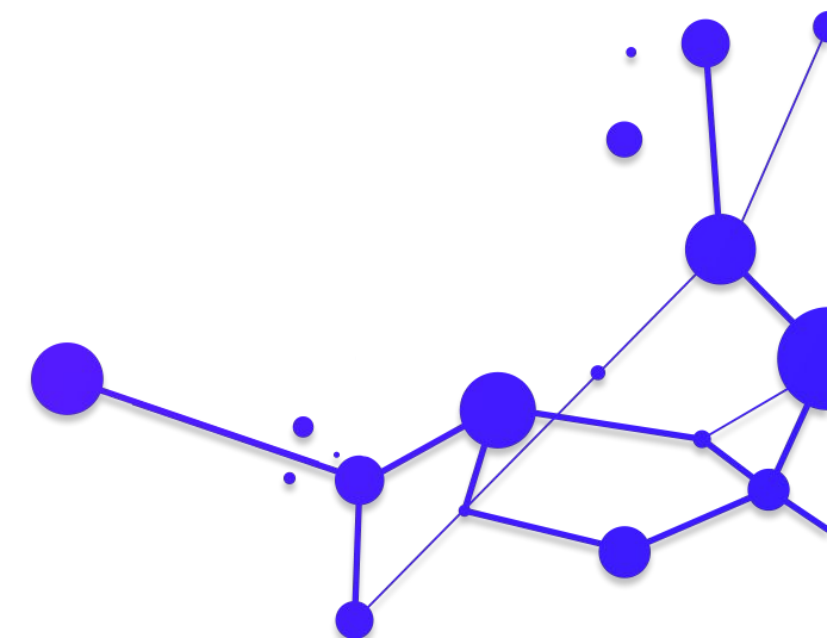
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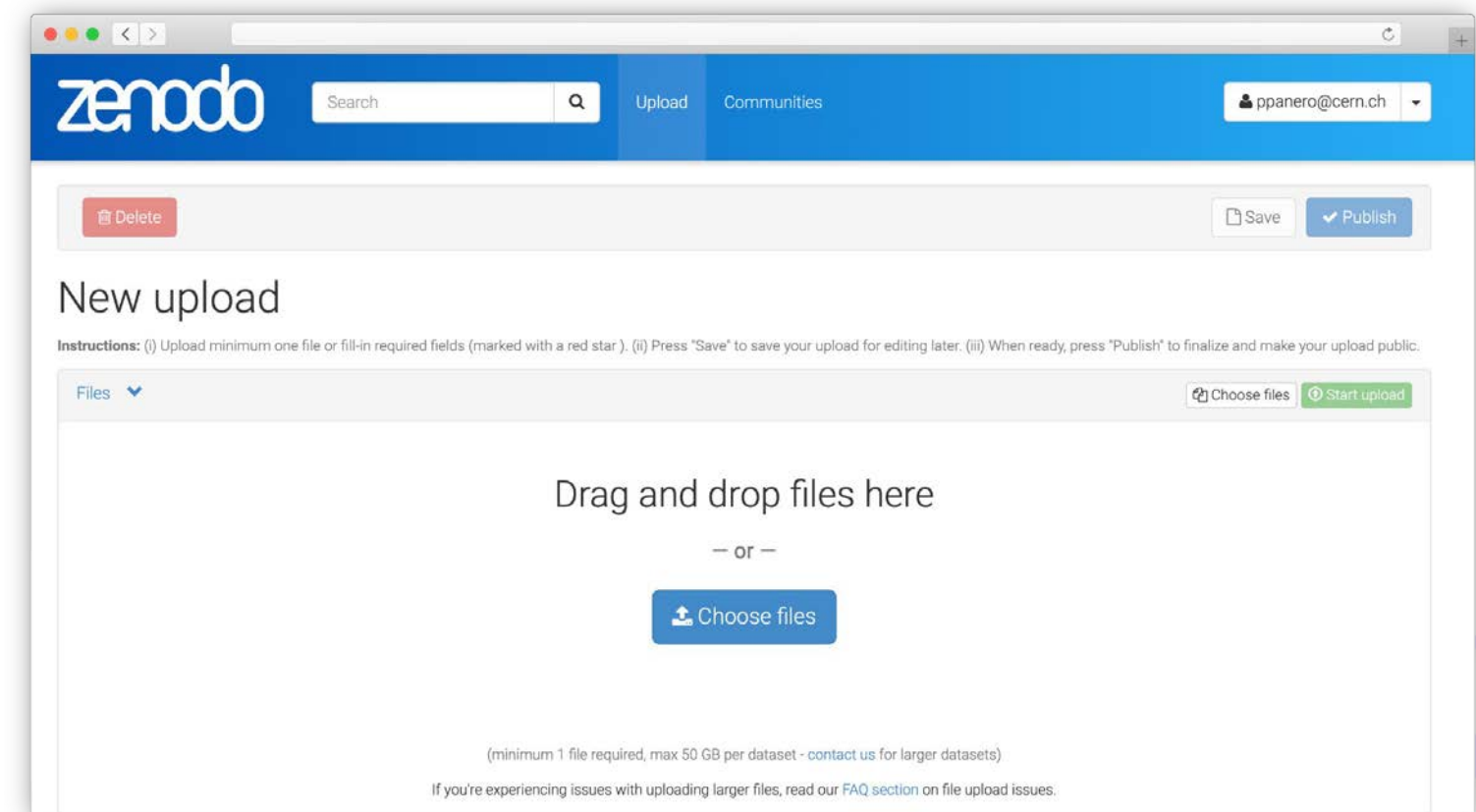
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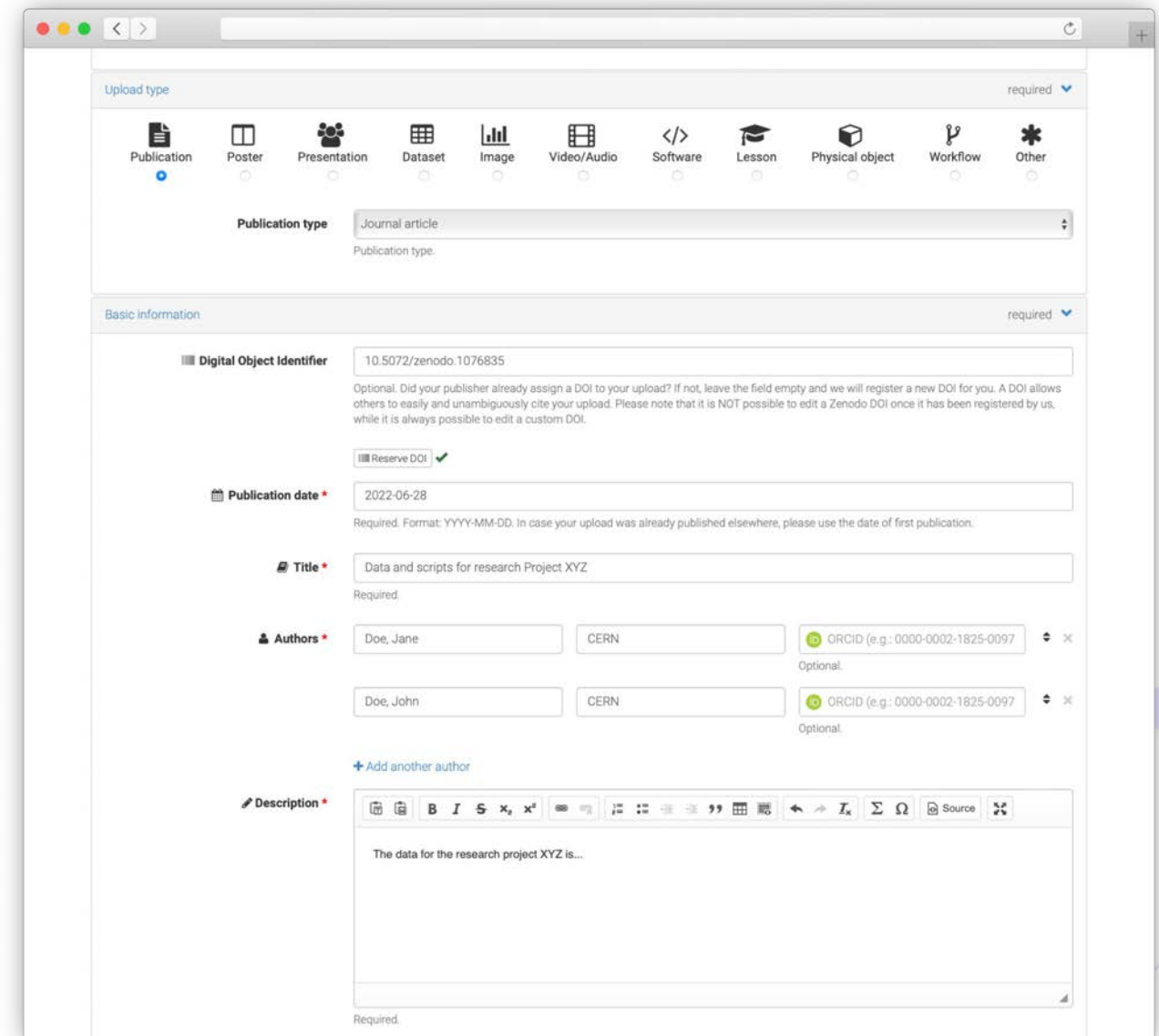
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Livingstone, Steven R.; Russo, Frank A.

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 - 03-02-01-01-01-02-01.wav 456.2 kB
 - 03-02-01-01-02-01-01.wav 446.6 kB
 - 03-02-01-01-02-02-01.wav 443.4 kB
 - 03-02-02-01-01-01-01.wav 465.8 kB
 - 03-02-02-01-01-02-01.wav 469.0 kB
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 - 03-02-02-02-02-01-01.wav 520.3 kB
 - 03-02-03-01-01-01-01.wav 485.0 kB
 - 03-02-03-01-01-02-01.wav 475.4 kB
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Published in: PLoS ONE: 13 pp. e0196391 (5).

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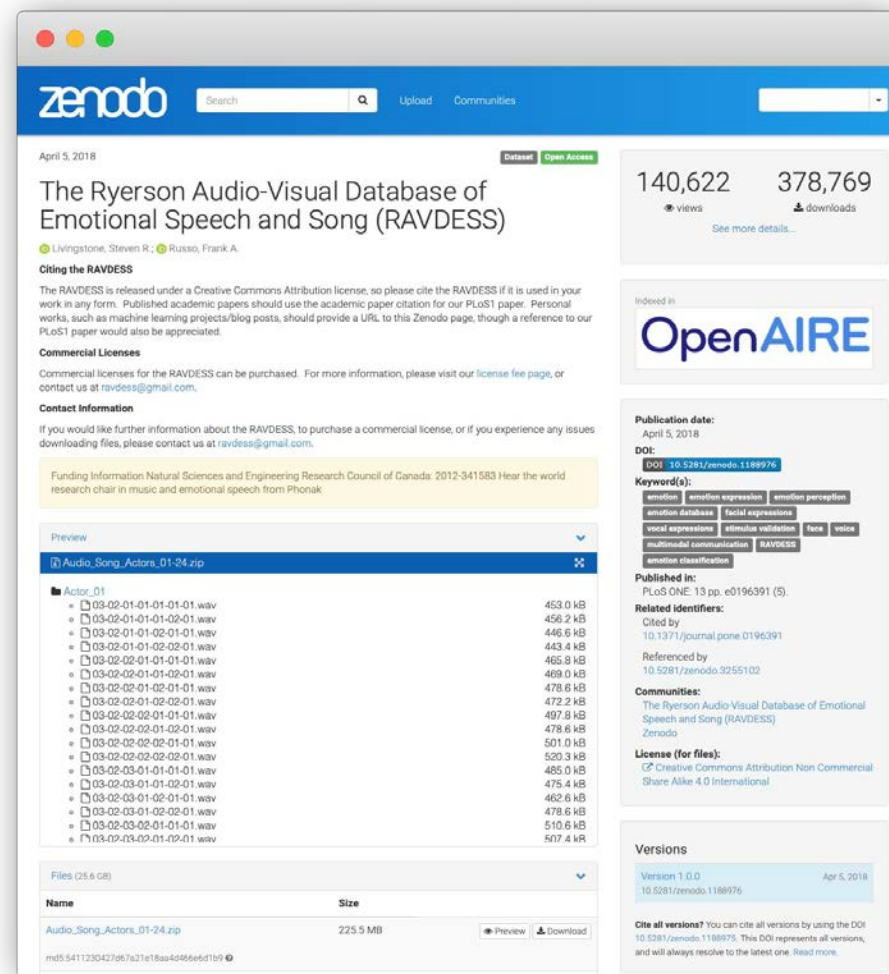
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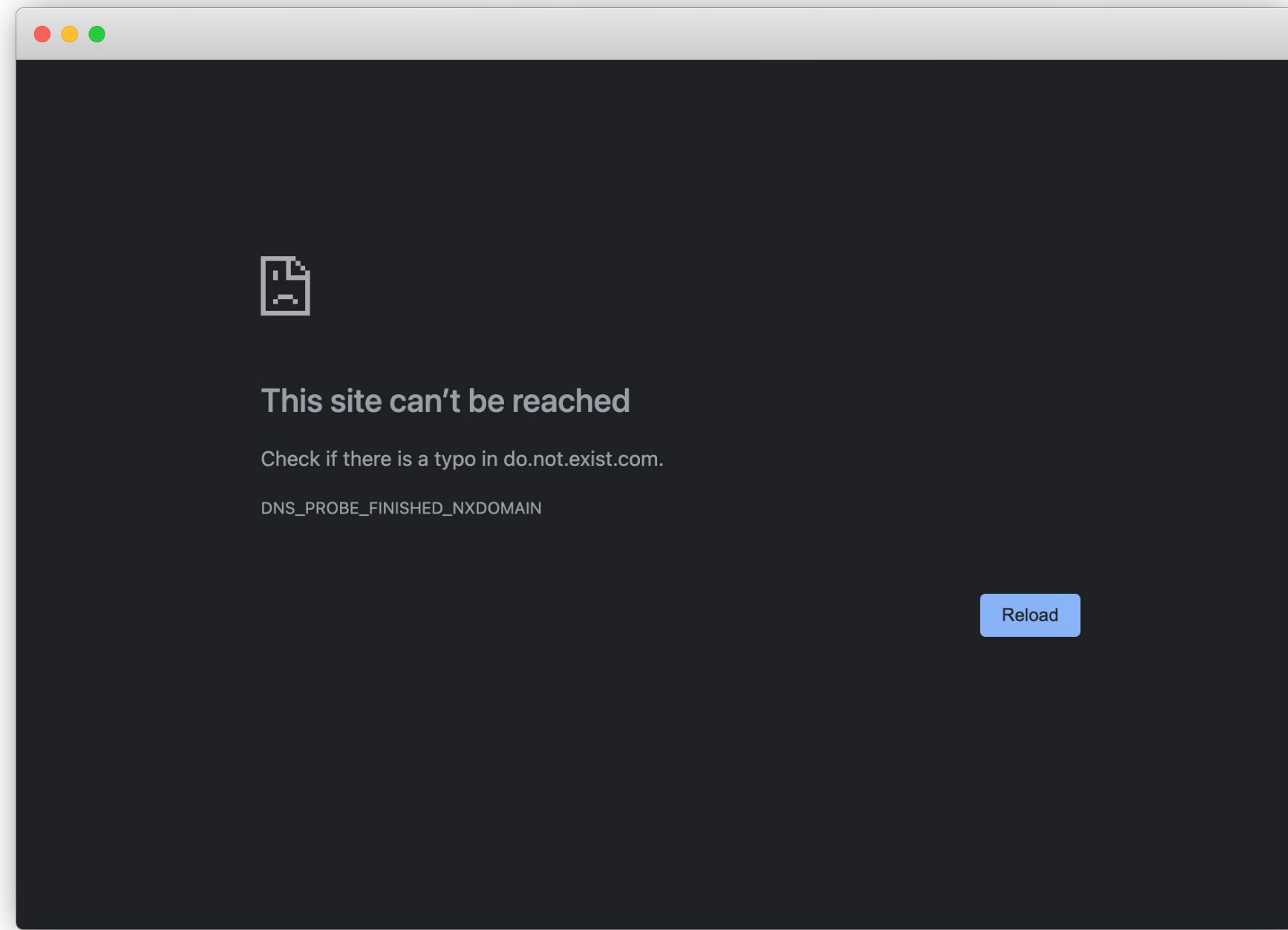
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 - You **cannot** edit the files

Filename (1 files)	Size	Checksum ⓘ
ppanero/zenodo-release-test-v3.zip	6 kB	md5:bde738bfa1f68d35a365d28b8eedc113

Note: File addition, removal or modification are not allowed after an upload has been published. This is because a Digital Object Identifier (DOI) is registered with [DataCite](#) for each upload. If you've made a mistake please [contact us](#).

If you have an updated version of your files, you can create a new record version, with a completely new DOI.

[New version](#)

Versioning

Need to edit data → New version

Versions

Version 8.1.2 10.5281/zenodo.6882296	Jul 26, 2022
Version 8.1.1 10.5281/zenodo.6504391	Apr 29, 2022
Version 8.1.0 10.5281/zenodo.5772100	Dec 10, 2021
Version 8.0.6 10.5281/zenodo.4461680	Feb 3, 2021
Version 8.0.5 10.5281/zenodo.4012004	Sep 2, 2020

[View all 9 versions](#)

Cite all versions? You can cite all versions by using the DOI [10.5281/zenodo.2551066](https://doi.org/10.5281/zenodo.2551066). This DOI represents all versions, and will always resolve to the latest one. [Read more.](#)

Metrics and statistics

- When data is disseminated...
 - We can compare to other sites
 - They can be aggregated



154,459 views 181,407 downloads

[See more details...](#)

	All versions	This version
Views <small>?</small>	154,459	246
Downloads <small>?</small>	181,407	48
Data volume <small>?</small>	278.8 TB	32.4 GB
Unique views <small>?</small>	120,853	208
Unique downloads <small>?</small>	36,119	23

[More info on how stats are collected.](#)

3 simple steps!

Upload

Delete Save Publish

New upload

Instructions: (i) Upload minimum one file or fill-in required fields (marked with a red star). (ii) Press "Save" to save your upload for editing later. (iii) When ready, press "Publish" to finalize and make your upload public.

Files ▾ Choose files Start upload

Filename (4 files)	Size	Progress	Delete
2020-06-report-3.json.gz	5 Mb		
broker-2019-01-17T13:48:21.bk	200 Mb		
pubmed-events.json	957 Kb		
storage_growth.py	703 B		

Note: File addition, removal or modification are not allowed after you have published your upload. This is because a Digital Object Identifier (DOI) is registered with [DataCite](#) for each upload.

(minimum 1 file required, max 50 GB per dataset - contact us for larger datasets)

Describe

Upload type required ▾

Publication Poster Presentation Dataset Image Video/Audio Software Lesson Other

Basic information required ▾

Digital Object Identifier 10.5072/zenodo.682186

Optional. Did your publisher already assign a DOI to your upload? If not, leave the field empty and we will register a new DOI for you. A DOI allows others to easily and unambiguously cite your upload. Please note that it is NOT possible to edit a Zenodo DOI once it has been registered by us, while it is always possible to edit a custom DOI.

Reserve DOI ✓

Publication date * 2020-10-15

Required. Format: YYYY-MM-DD. In case your upload was already published elsewhere, please use the date of first publication.

Title * Data and descriptions for XYZ research project

Required.

Authors *

Alice Smith ORCID (e.g.: 0000-0002-18) ×

Alex Ioannidis ORCID (e.g.: 0000-0002-18) ×

[+ Add another author](#)

Description *

[Source](#)

This is the datasets and their description/documentation for the work published on project XYZ.

Publish

August 12, 2020 Dataset Open Access

OpenAIRE Covid-19 publications, datasets, software and projects metadata.

4,620 views 438 downloads [See more details...](#)

Indexed in

Publication date: August 12, 2020

DOI: [10.5281/zenodo.3980491](https://doi.org/10.5281/zenodo.3980491)

Communities: OpenAIRE, OpenAIRE Research Graph, Zenodo

License (for files): [Creative Commons Zero v1.0 Universal](#)

Versions

Version 1.0 Aug 12, 2020
10.5281/zenodo.3980491

Cite all versions? You can cite all versions by using the DOI 10.5281/zenodo.3980490. This DOI represents all versions, and will always resolve to the latest one. [Read more.](#)

Files (52.8 MB)

Name	Size	Download
COVID-19.json.gz	52.8 MB	

md5:c7ab7c8b97c2281146ea643cc5df6d90

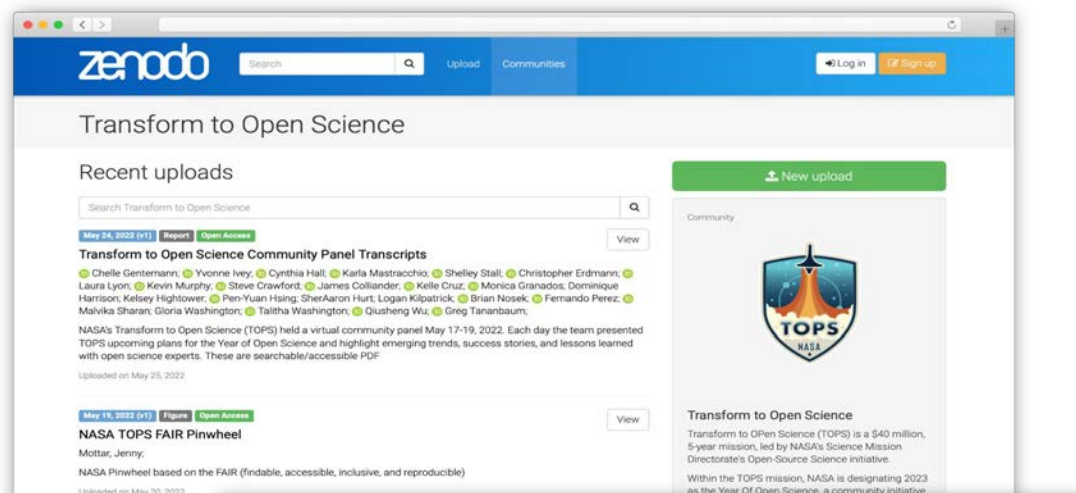
Citations 0

Show only: Literature (0) Dataset (0) Software (0) Unknown (0) Citations to this version

Search

Communities

Institutes, projects, repositories, collections...



zenodo Transform to Open Science

Recent uploads

May 24, 2022 (1) Report Open Access

Transform to Open Science Community Panel Transcripts

Chelle Gentemann, Yvonne Ivey, Cynthia Hall, Karla Mastracchio, Shelley Stall, Christopher Erdmann, Laura Lyon, Kevin Murphy, Steve Crawford, James Collander, Kelle Cruz, Monica Granados, Dominique Harrison, Kelsey Hightower, Pen-Yuan Hsing, SherAaron Hurt, Logan Kilpatrick, Brian Nosek, Fernando Perez, Malvika Sharan, Gloria Washington, Talitha Washington, Quasheng Wu, Greg Tananbaum.

NASA's Transform to Open Science (TOPS) held a virtual community panel May 17-19, 2022. Each day the team presented TOPS upcoming plans for the Year of Open Science and highlight emerging trends, success stories, and lessons learned with open science experts. These are searchable/accessible PDF.

Updated on May 25, 2022

May 19, 2022 (1) Figure Open Access

NASA TOPS FAIR Pinwheel

Mottar, Jenny.

NASA Pinwheel based on the FAIR (findable, accessible, inclusive, and reproducible)

Updated on May 20, 2022

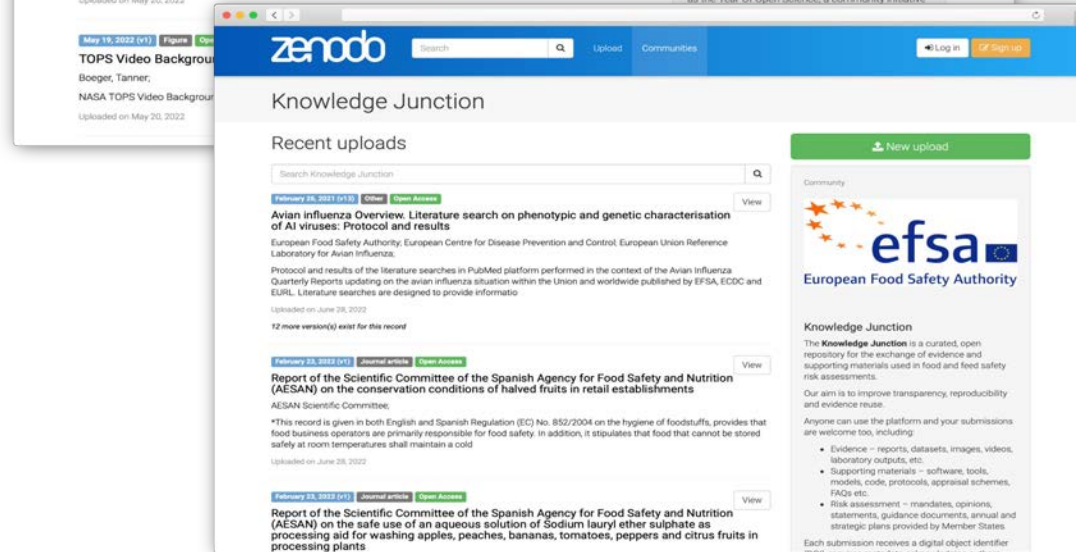
May 19, 2022 (1) Figure Open Access

TOPS Video Background

Boeger, Tanner.

NASA TOPS Video Background

Updated on May 20, 2022



zenodo Knowledge Junction

Recent uploads

February 25, 2022 (1) Other Open Access

Avian influenza Overview. Literature search on phenotypic and genetic characterisation of A1 viruses: Protocol and results

European Food Safety Authority; European Centre for Disease Prevention and Control; European Union Reference Laboratory for Avian Influenza.

Protocol and results of the literature searches in PubMed platform performed in the context of the Avian Influenza Quarterly Reports updating on the avian influenza situation within the Union and worldwide published by EFSA, ECDC and EURL. Literature searches are designed to provide information.

Updated on June 28, 2022

12 more version(s) exist for this record

February 23, 2022 (1) Journal article Open Access

Report of the Scientific Committee of the Spanish Agency for Food Safety and Nutrition (AESAN) on the conservation conditions of halved fruits in retail establishments

AESAN Scientific Committee.

*This record is given in both English and Spanish Regulation (EC) No. 853/2004 on the hygiene of foodstuffs, provides that food business operators are primarily responsible for food safety. In addition, it stipulates that food that cannot be stored safely at room temperatures shall maintain a cold

Updated on June 28, 2022

February 23, 2022 (1) Journal article Open Access

Report of the Scientific Committee of the Spanish Agency for Food Safety and Nutrition (AESAN) on the safe use of an aqueous solution of Sodium lauryl ether sulphate as processing aid for washing apples, peaches, bananas, tomatoes, peppers and citrus fruits in processing plants

AESAN Scientific Committee.

*This record is given in both English and Spanish Regulation (EC) No. 853/2004 on the hygiene of foodstuffs, provides that food business operators are primarily responsible for food safety. In addition, it stipulates that food that cannot be stored safely at room temperatures shall maintain a cold

Updated on June 28, 2022

12 more version(s) exist for this record

Anyone can use the platform and your submissions are welcome too, including:

- Evidence – reports, datasets, images, videos, laboratory outputs, etc.
- Supporting materials – software, tools, models, code, protocols, appraisal schemes, FAQs etc.
- Risk assessment – mandates, opinions, statements, guidance documents, annual and strategic plans provided by Member States.

Each submission receives a digital object identifier (DOI) and a permanent URL.

zenodo LORY - Lucerne Open Repository

Recent uploads

January 5, 2021 (1) Book section Open Access

Status in Early Modern and Modern World Politics: Competition or Conflict?

Youssef, Ramy.

Based on Simmel's sociology of competition, the article compares historically varying structures and semantics of world political status competition. Early modern and modern rankings that represent the world political status of royal titles, or modern status, respectively, serve as empirical map.

Updated on June 27, 2022

April 14, 2022 (1) Journal article Open Access

Trost

Lorenz-Saladin, Franziska.

Was gibt Trost in belastender Zeit? Wie kann von Trost gesprochen und wie gebietet werden? Eine Annäherung an das Thema.

Updated on June 27, 2022

May 26, 2022 (1) Journal article Open Access

The perceived impact of COVID-19 on the mental health status of adolescent and young adult survivors of childhood cancer and the development of a knowledge translation tool to support their information needs

Michel, Gisela; Hsu, Sharon; Tran, Andrew; Cho, Sara; Forbes, Caitlin; Forster, Victoria J.; Stokoe, Mehak; Allagpitan, Elaine; Walford, Claire E.; Wiener, Lori; Heathcote, Lauren C.; Michel, Gisela; Patterson, Pandora; Reynolds, Kathleen; Schulte, Fiona S. M.

Introduction: Adolescent and young adult (AYA, 13 to 39 years) survivors of childhood cancer may be especially vulnerable to physical health and mental health concerns during the pandemic. We investigated the impact of COVID-19 on the mental health status of AYA survivors (Am 1) and shared tailored

Updated on June 27, 2022

Published in Frontiers in Psychology, vol. 13, p. 867152

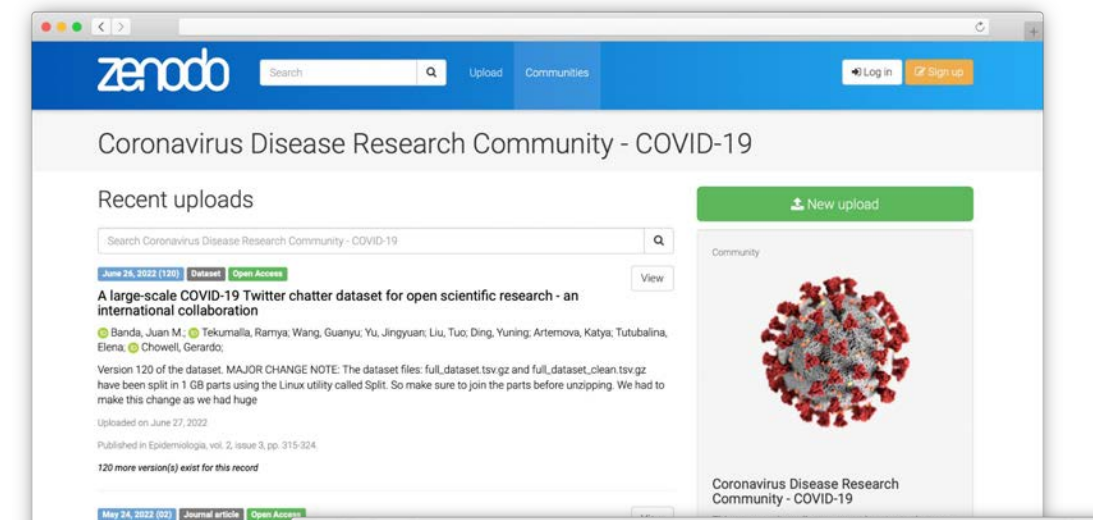
Curated by: lory.com

Curator policy: Curator Policy: German / English GA Policy: UNLI

Communities: Universität Luzern Hochschule Luzern Pädagogische Hochschule Luzern Historisches Museum Luzern

Created: September 8, 2015

Harvesting API: GAI FISH interface



zenodo Coronavirus Disease Research Community - COVID-19

Recent uploads

June 26, 2022 (130) Dataset Open Access

A large-scale COVID-19 Twitter chatter dataset for open scientific research - an international collaboration

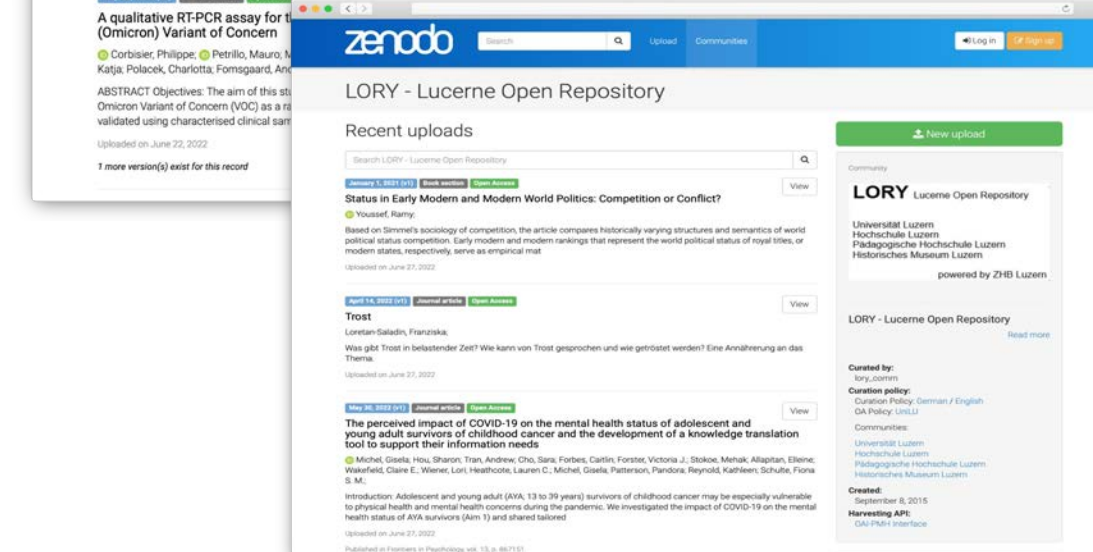
Banda, Juan M.; Tekumalla, Ramya; Wang, Guanyu; Yu, Jingyuan; Liu, Tuo; Ding, Yuning; Artemova, Katya; Tutubalina, Elena; Chowell, Gerard.

Version 120 of the dataset. MAJOR CHANGE NOTE: The dataset files: full_dataset.tsv.gz and full_dataset_clean.tsv.gz have been split in 1 GB parts using the Linux utility called Split. So make sure to join the parts before unzipping. We had to make this change as we had huge

Updated on June 27, 2022

Published in Epidemiologia, vol. 2, issue 3, pp. 315-324.

120 more version(s) exist for this record



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Status in Early Modern and Modern World Politics: Competition or Conflict?

Youssef, Ramy.

Based on Simmel's sociology of competition, the article compares historically varying structures and semantics of world political status competition. Early modern and modern rankings that represent the world political status of royal titles, or modern status, respectively, serve as empirical map.

Updated on June 27, 2022

April 14, 2022 (1) Journal article Open Access

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Introduction: Adolescent and young adult (AYA, 13 to 39 years) survivors of childhood cancer may be especially vulnerable to physical health and mental health concerns during the pandemic. We investigated the impact of COVID-19 on the mental health status of AYA survivors (Am 1) and shared tailored

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Published in Frontiers in Psychology, vol. 13, p. 867152

Curated by: lory.com

Curator policy: Curator Policy: German / English GA Policy: UNLI

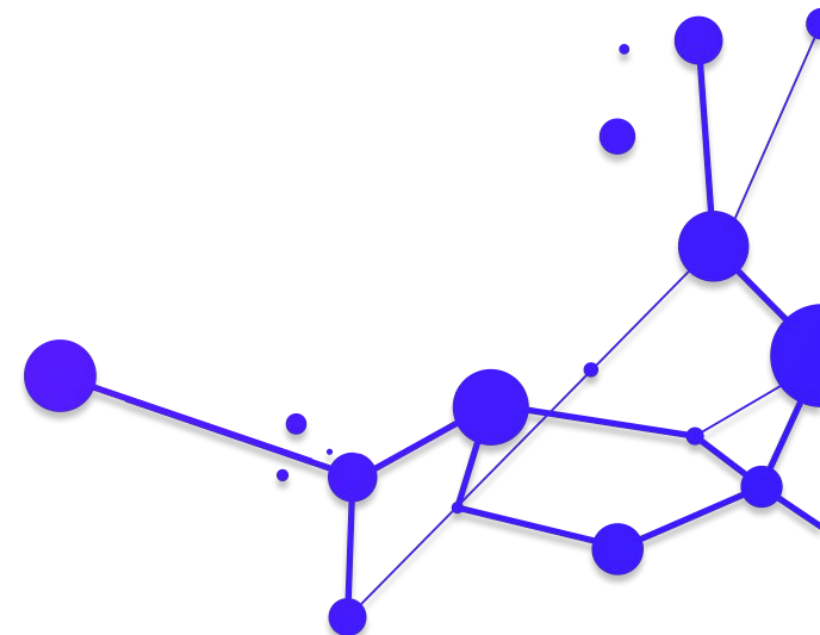
Communities: Universität Luzern Hochschule Luzern Pädagogische Hochschule Luzern Historisches Museum Luzern

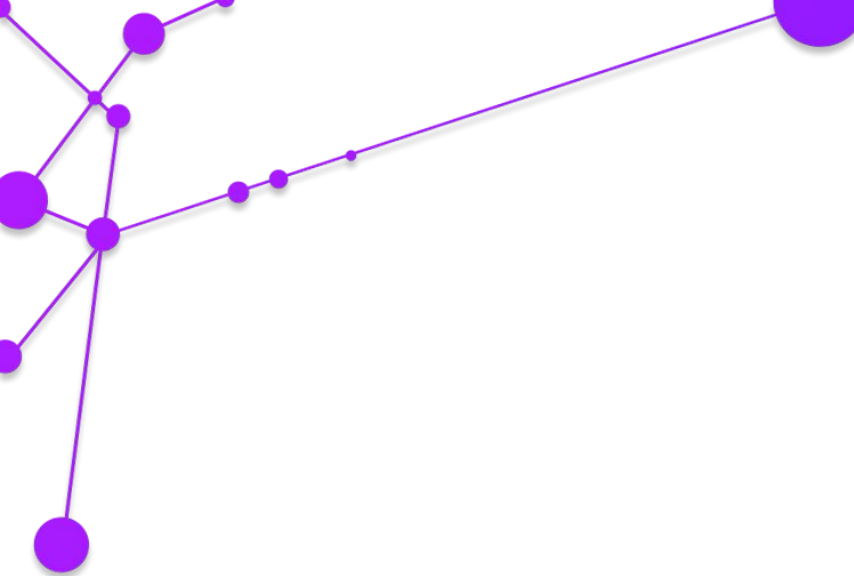
Created: September 8, 2015

Harvesting API: GAI FISH interface

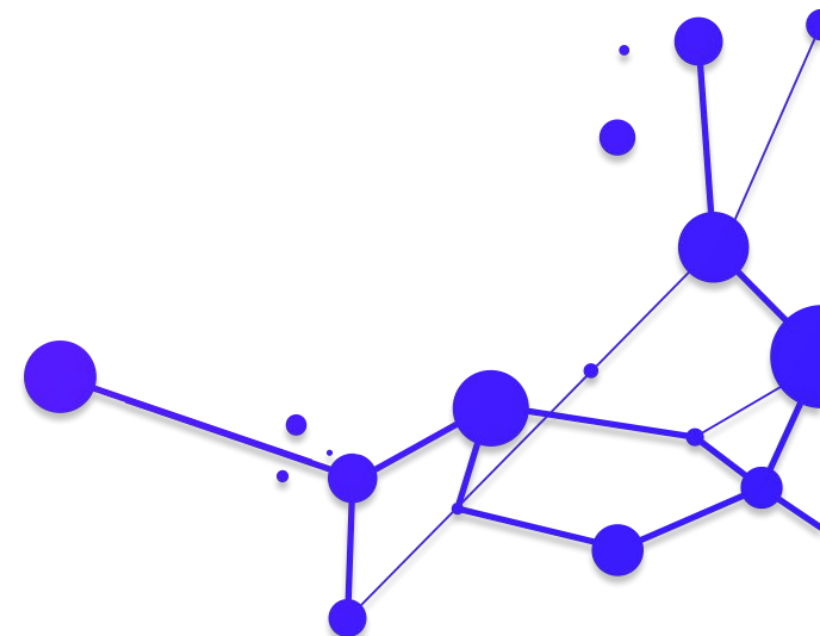


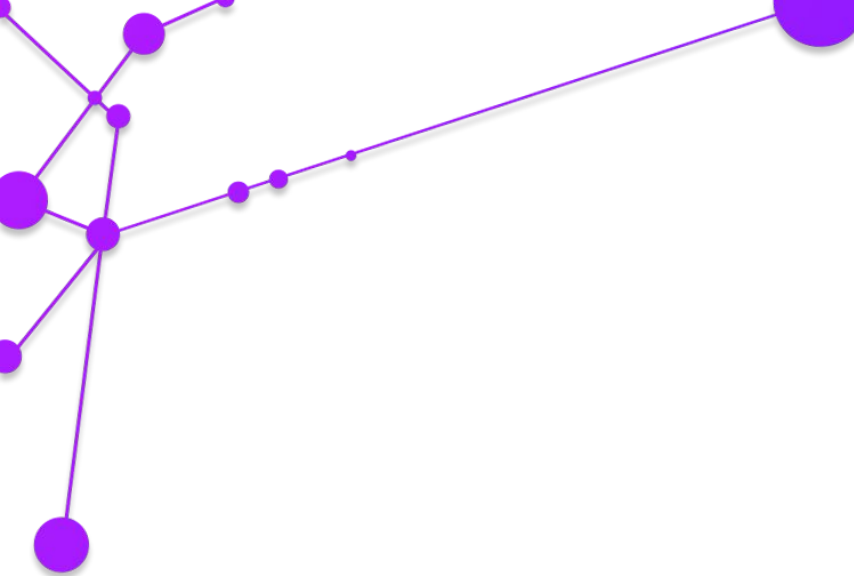
How to make an upload?





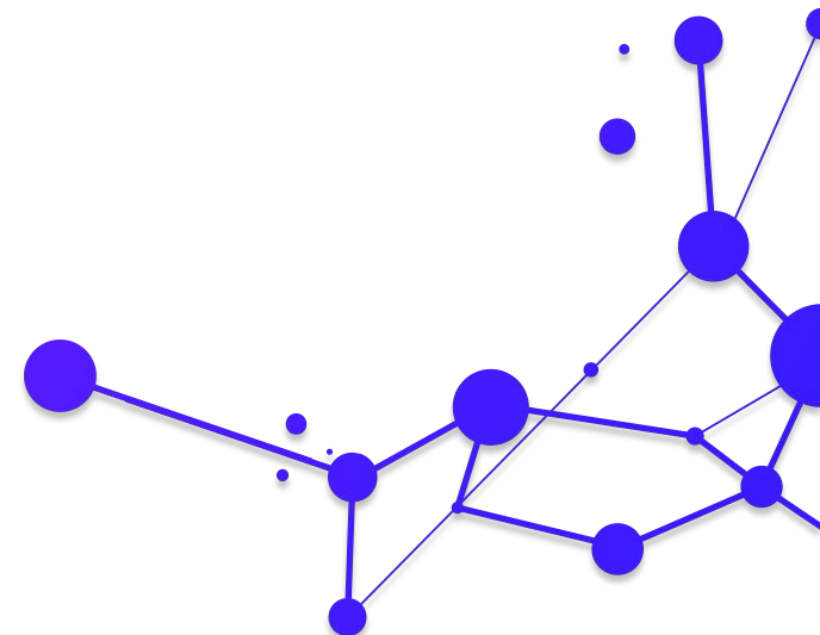
<Demo>





Create a community

See video [1-community_creation](#)

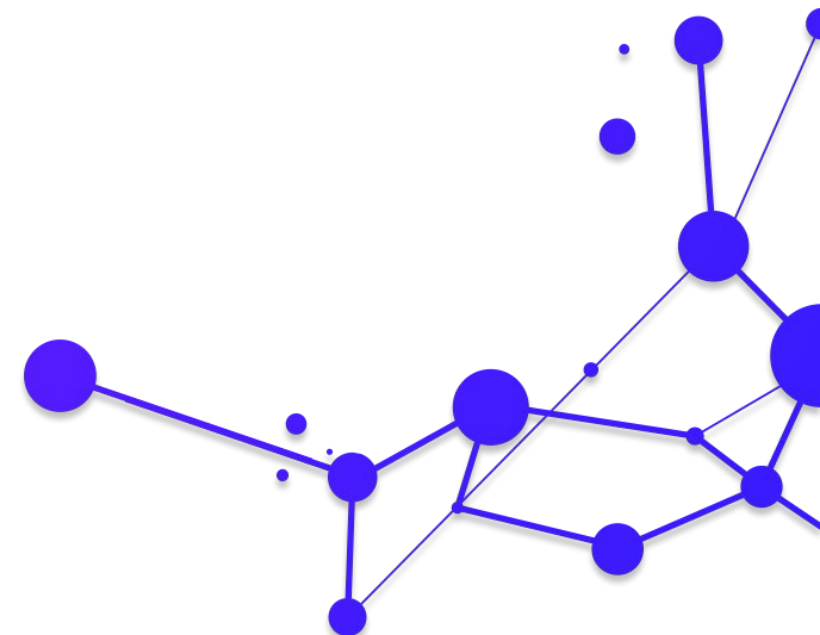


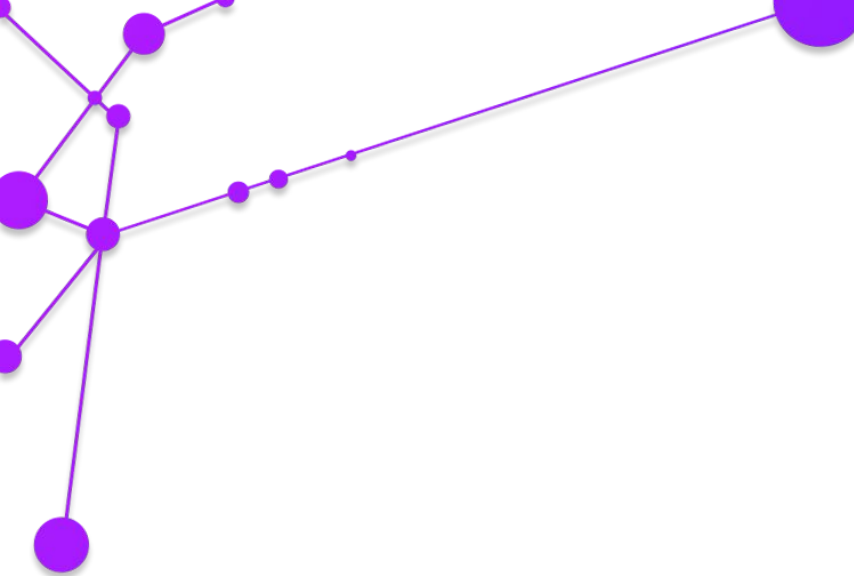


Create a record

See video 2-record_creation

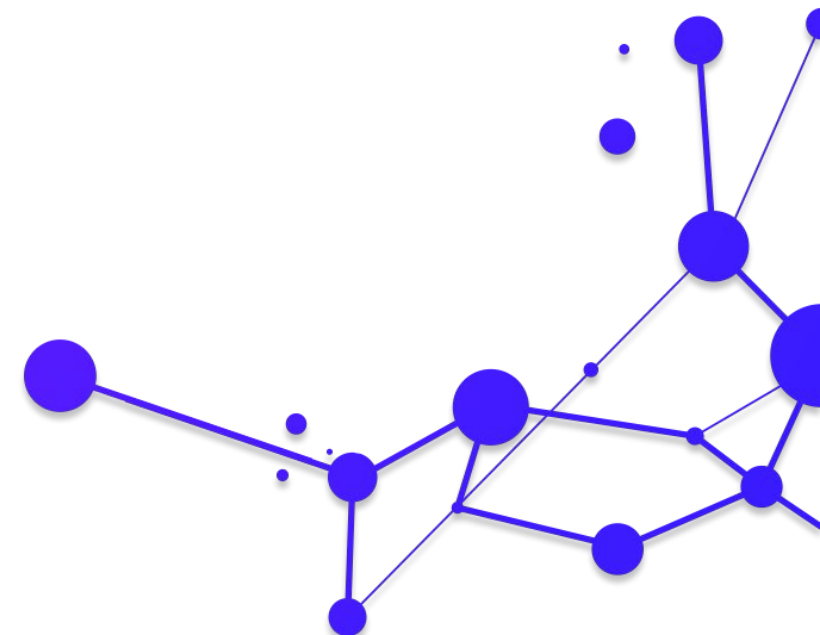
or

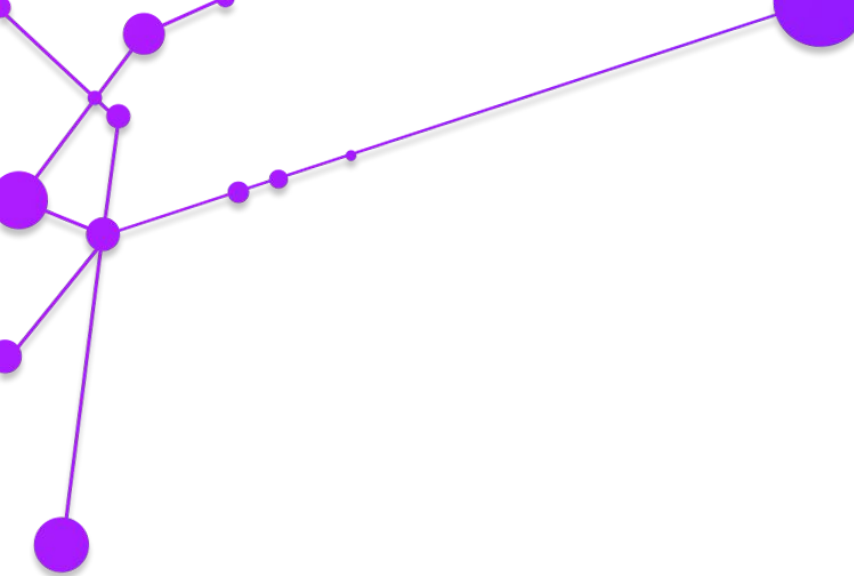




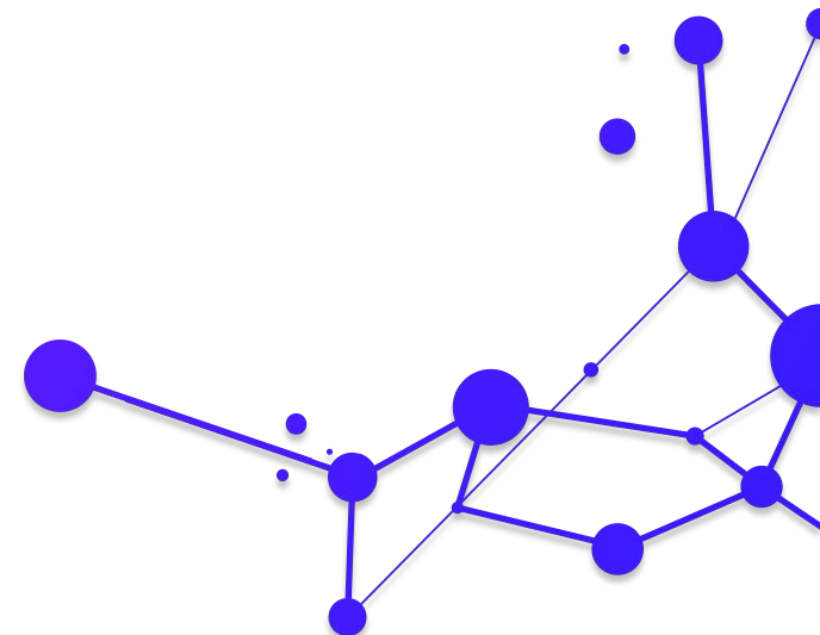
Curate a community

See video [3-community_curation](#)



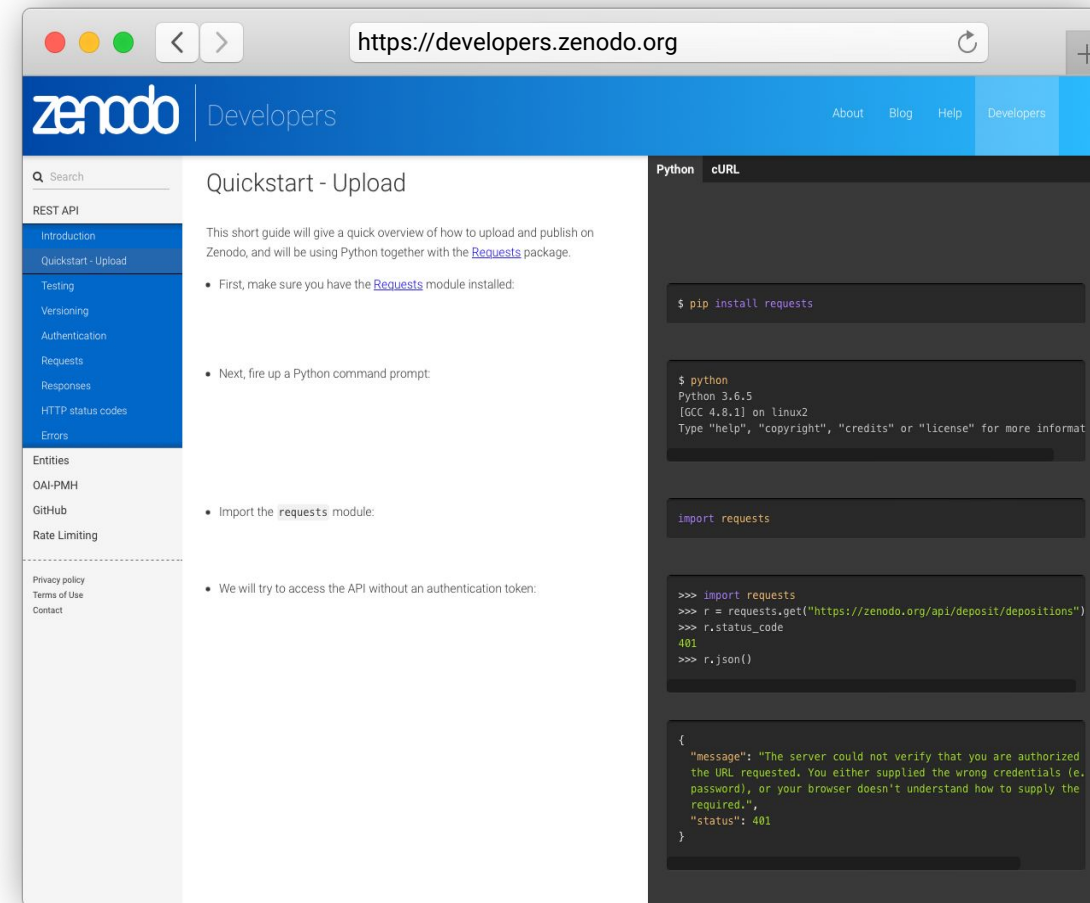
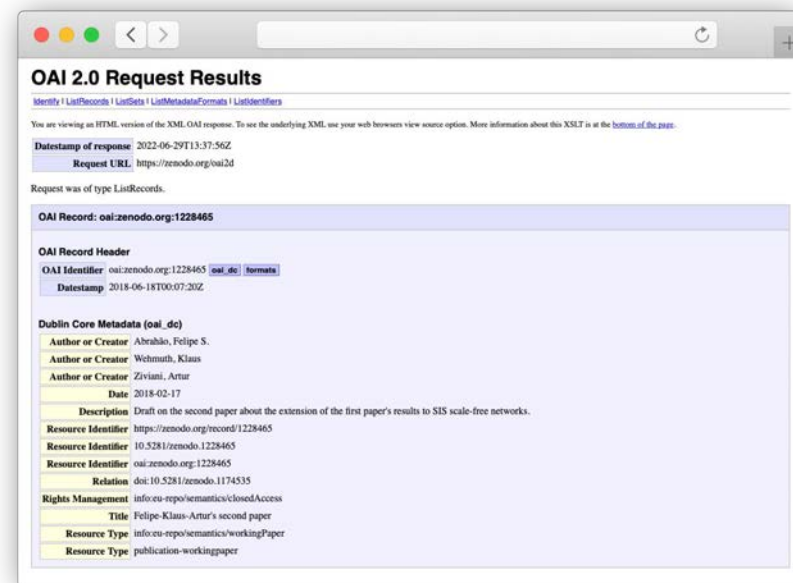


</Demo>



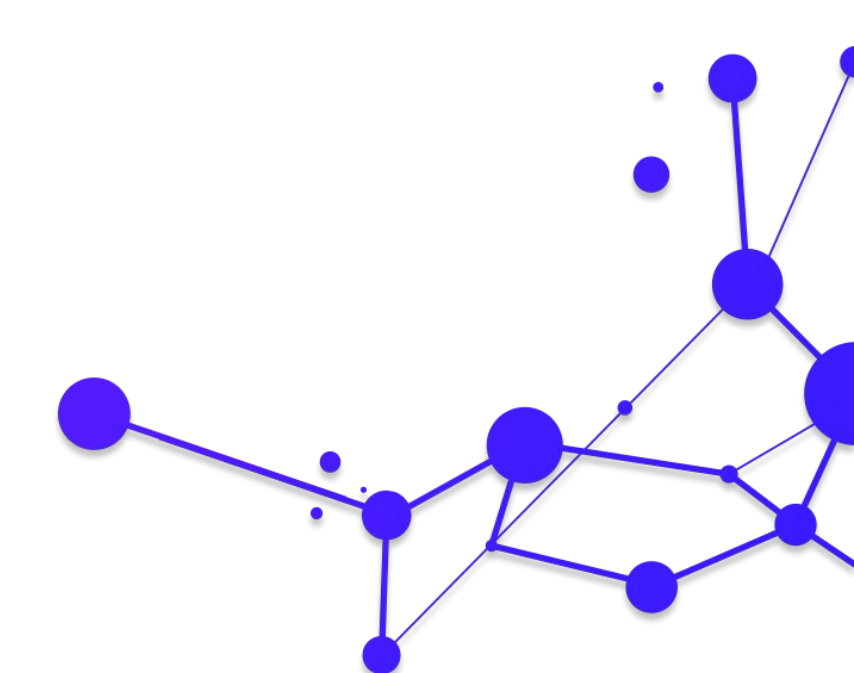
RESTful API and OAI-PMH

- “REST API”-first in mind
- OAI-PMH for harvesting

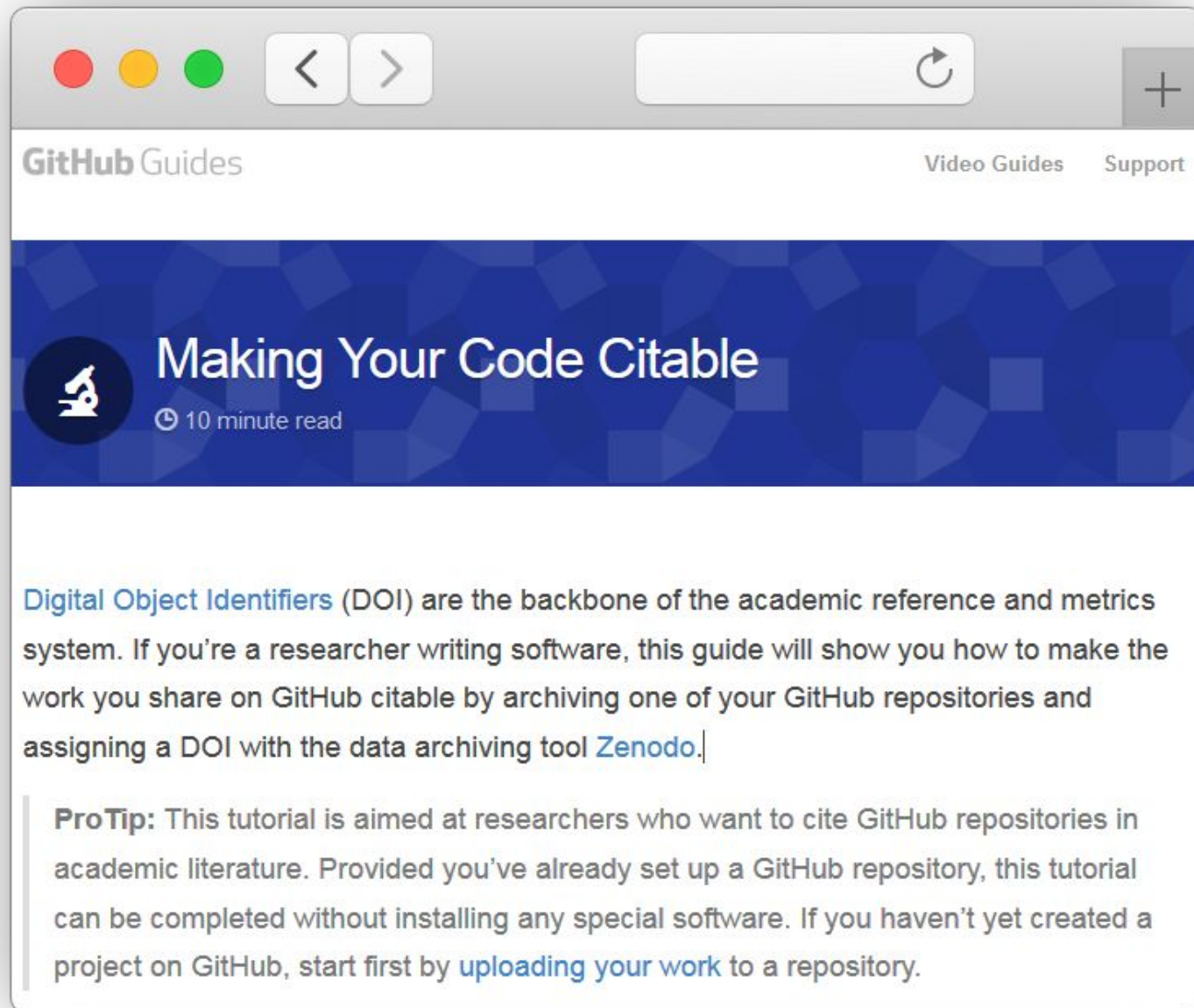




What about software?



GitHub integration



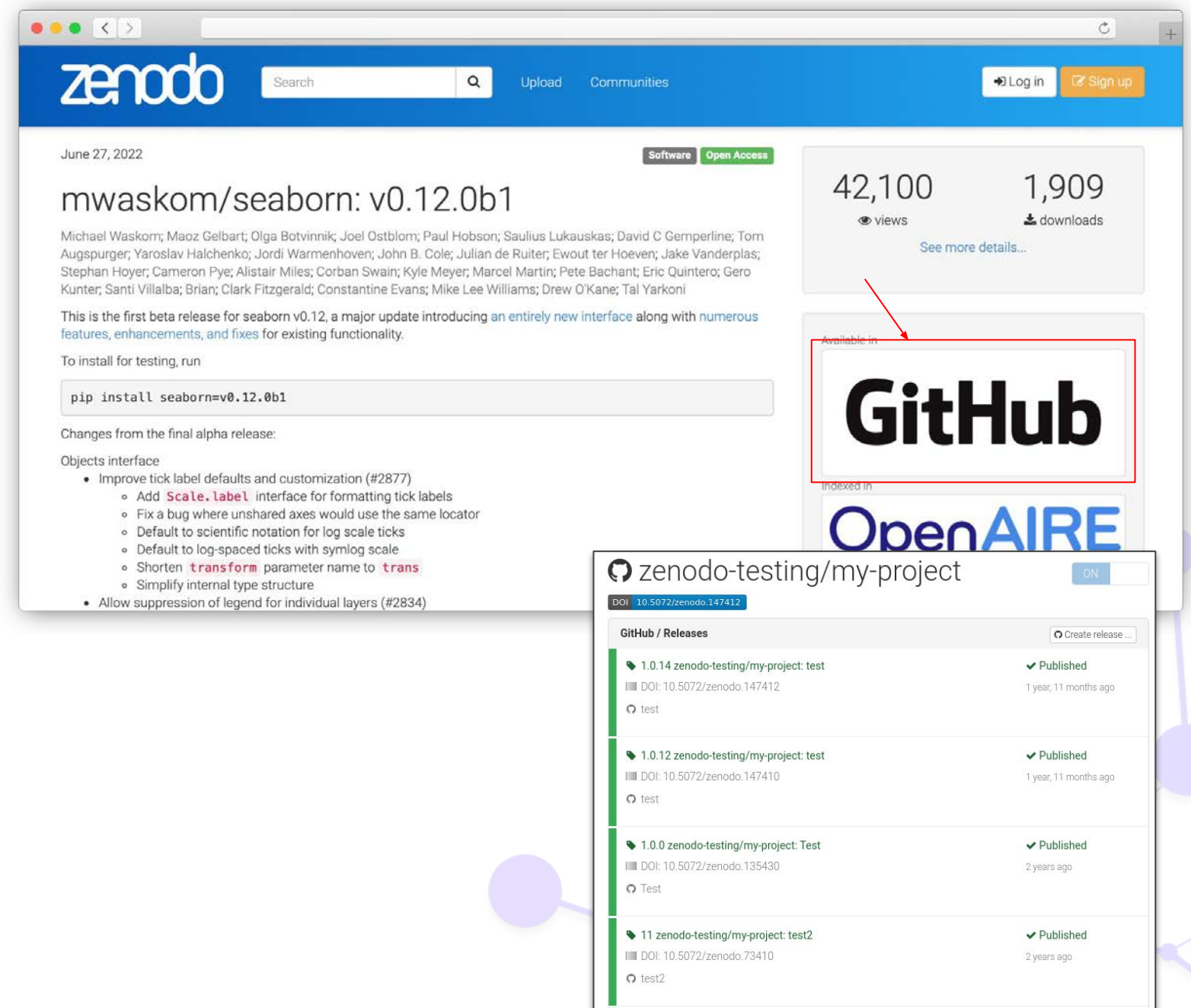
GitHub Guides Video Guides Support

Making Your Code Citable

10 minute read

Digital Object Identifiers (DOI) are the backbone of the academic reference and metrics system. If you're a researcher writing software, this guide will show you how to make the work you share on GitHub citable by archiving one of your GitHub repositories and assigning a DOI with the data archiving tool [Zenodo](#).

ProTip: This tutorial is aimed at researchers who want to cite GitHub repositories in academic literature. Provided you've already set up a GitHub repository, this tutorial can be completed without installing any special software. If you haven't yet created a project on GitHub, start first by [uploading your work](#) to a repository.



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June 27, 2022 Software Open Access

mwaskom/seaborn: v0.12.0b1

42,100 views 1,909 downloads

Available in **GitHub** indexed in **OpenAIRE**

This is the first beta release for seaborn v0.12, a major update introducing an entirely new interface along with numerous features, enhancements, and fixes for existing functionality.

To install for testing, run

```
pip install seaborn=v0.12.0b1
```

Changes from the final alpha release:

- Objects interface
 - Improve tick label defaults and customization (#2877)
 - Add `Scale.label` interface for formatting tick labels
 - Fix a bug where unshared axes would use the same locator
 - Default to scientific notation for log scale ticks
 - Default to log-spaced ticks with symlog scale
 - Shorten `transform` parameter name to `trans`
 - Simplify internal type structure
 - Allow suppression of legend for individual layers (#2834)

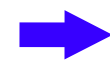
zenodo-testing/my-project ON

DOI: 10.5072/zenodo.147412

GitHub / Releases	Published
1.0.14 zenodo-testing/my-project: test DOI: 10.5072/zenodo.147412	✓ Published 1 year, 11 months ago
1.0.12 zenodo-testing/my-project: test DOI: 10.5072/zenodo.147410	✓ Published 1 year, 11 months ago
1.0.0 zenodo-testing/my-project: Test DOI: 10.5072/zenodo.135430	✓ Published 2 years ago
11 zenodo-testing/my-project: test2 DOI: 10.5072/zenodo.73410	✓ Published 2 years ago

What about reusability?

- ✔ Data
- ✔ Software (code)
- ❓ How do we run it?



REANA integration

zenodo Search Upload Communities Log in Sign up

December 3, 2021 **Software** **Open Access**

Excess of mortality data processing

Anna Ferrari; Ines Pinto Pereira Da Cruz; Nihal Ezgi Yuceturk; Alexandros Ioannidis

Other(s)
Claudio Buongiorno Sottoriva

Download and Standardize French, Italian, English and European all causes mortality data.

138 Views 196 Downloads

Indexed in **OpenAIRE**

Publication date: December 3, 2021
DOI: [10.5281/zenodo.6653276](https://doi.org/10.5281/zenodo.6653276)
Execute on: [Launch on REANA](#)
Related identifiers: Compiled by <https://reana.cern.ch/launch?url=https%3A%2F%2Fzenodo.org%2Frecord%2F6653276%2Ffiles%2Fcircular-health-data-processing-v0.2.1.zip>
Communities: [Circular Health](#)
License (for files): [Creative Commons Attribution 4.0 International](#)

Preview

- circular-health-data-processing-v0.2.1.zip
- circular-health-data-processing-v0.2.1
 - .gitignore 711 Bytes
 - README.md 76 Bytes
 - circular-health-data-processing
 - download_and_clean.py 3.7 kB
 - eu_map.ipynb 17.7 kB
 - normalization.py 2.0 kB
 - requirements.txt 143 Bytes
 - src
 - datasets_download_and_clean
 - change_column_type.py 1.6 kB
 - column_filter.py 517 Bytes
 - convert_dateformat.py 2.1 kB
 - convert_values.py 534 Bytes
 - data_to_dataframe.py 2.1 kB
 - download.py 1.7 kB
 - download_parameters_europe.json 1.6 kB
 - download_parameters_france.json 4.9 kB
 - download_parameters_italy.json 6.1 kB

Files (46.2 MB)

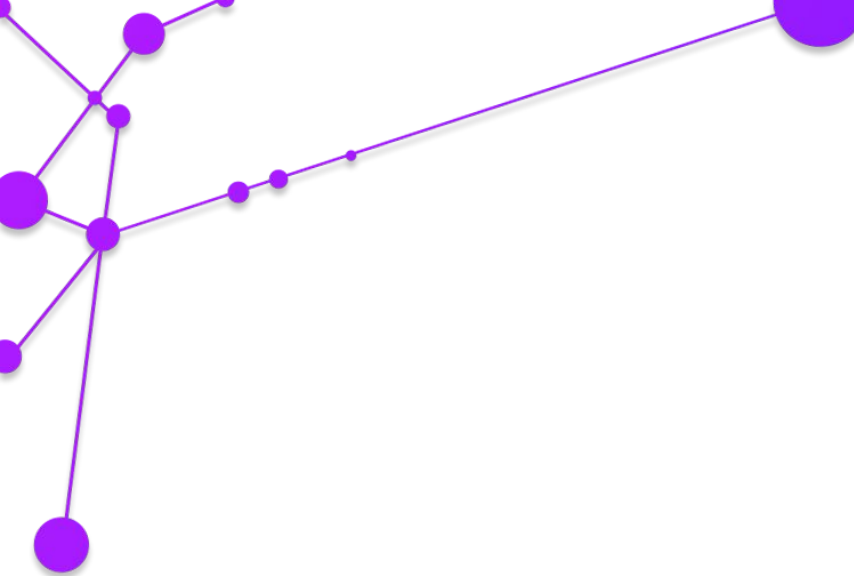
reana Help

Launch on REANA

Excess of mortality data processing
<https://zenodo.org/record/6653276/files/circular-health-data-processing-v0.2.1.zip> [Launch](#)
reana.yaml

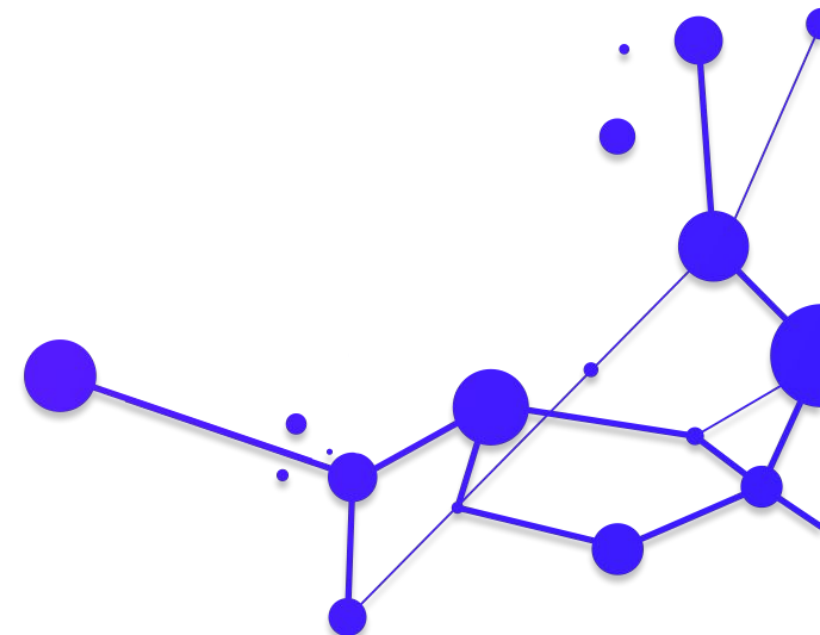
Execute on:

[Launch on REANA](#)



That's

zenodo



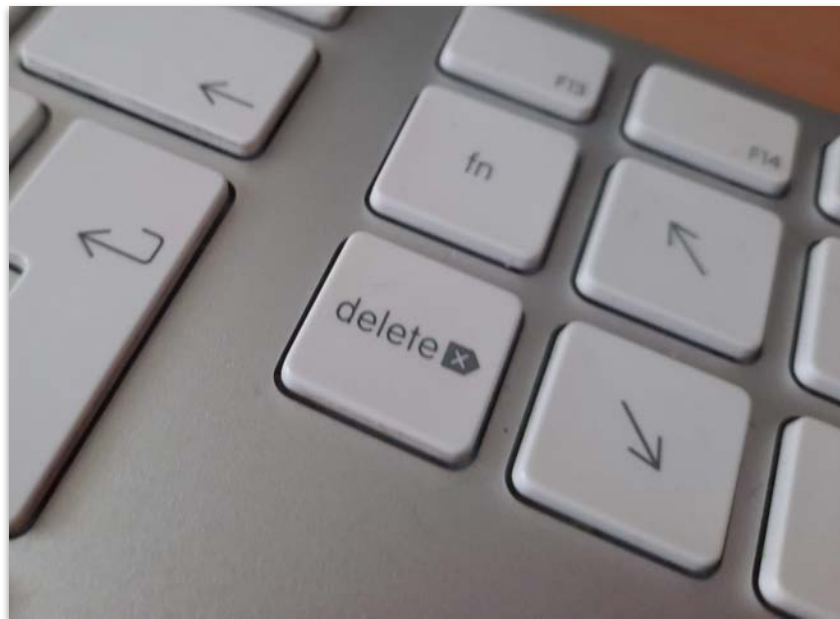


Why use a repository?

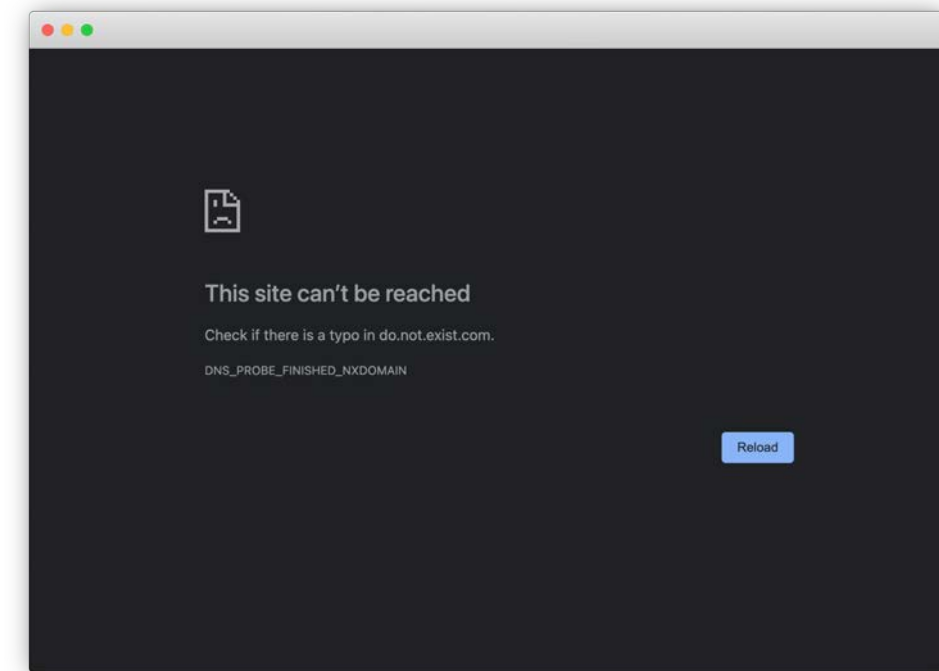


Why?

Prevent research invalidation
Data cannot be changed/removed



Improve citability and findability
DOI, URLs do not change



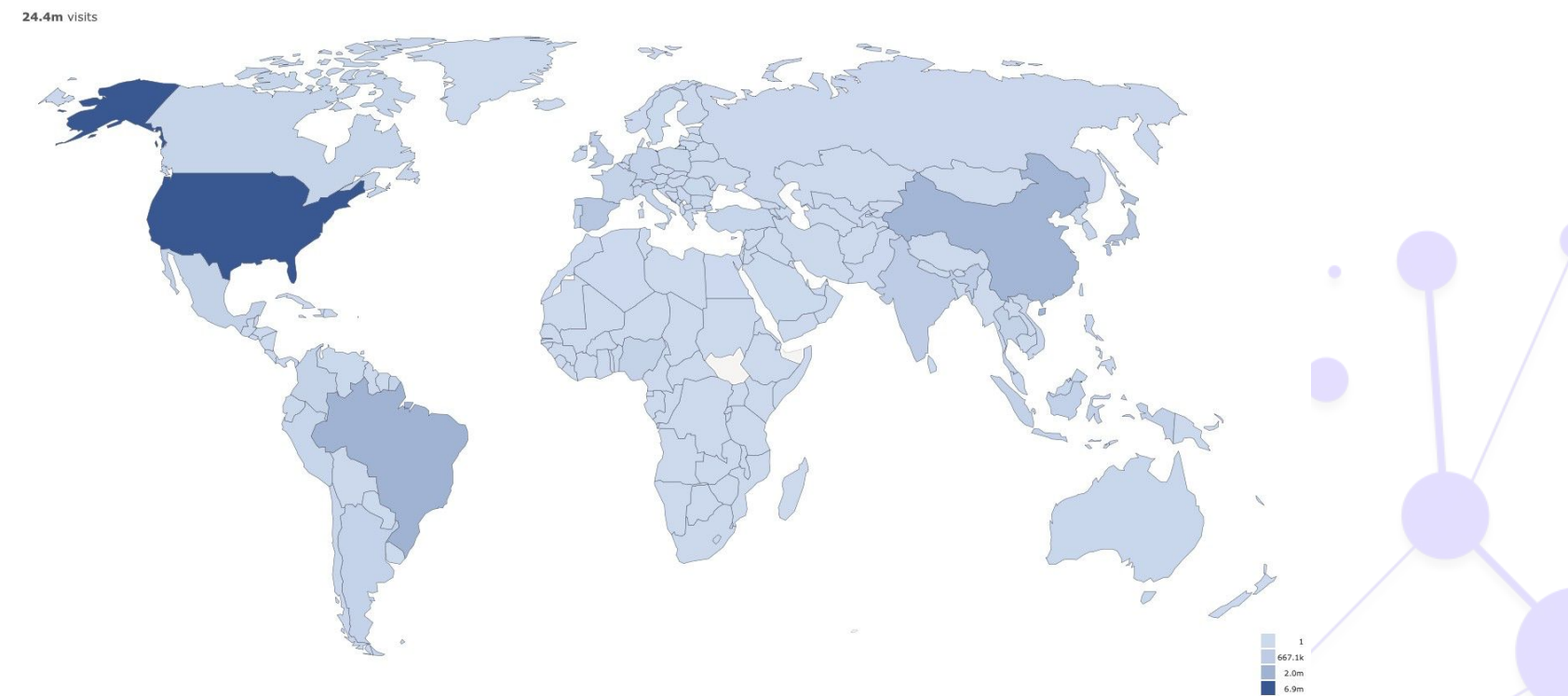
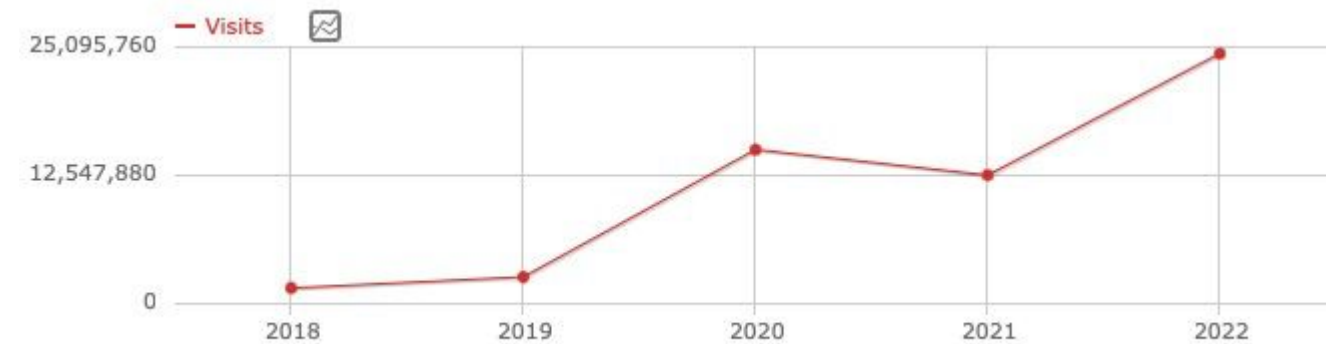


When to use Zenodo?



Zenodo in numbers

- ~3M records
 - 1.6M text
 - 770k images
 - 220k software
 - 200k datasets
- ~1.3PB data, ~9.9M files
- 25M visitors/year
- 300k registered users
 - 7.5k research institutions
 - 50% of those users are from Europe
 - 153 countries



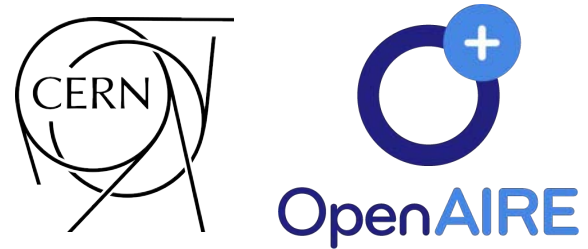


Why use Zenodo?



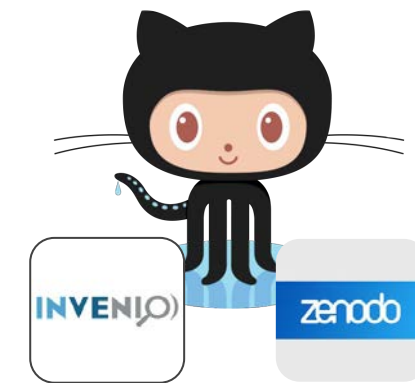
Why Zenodo?

Trust

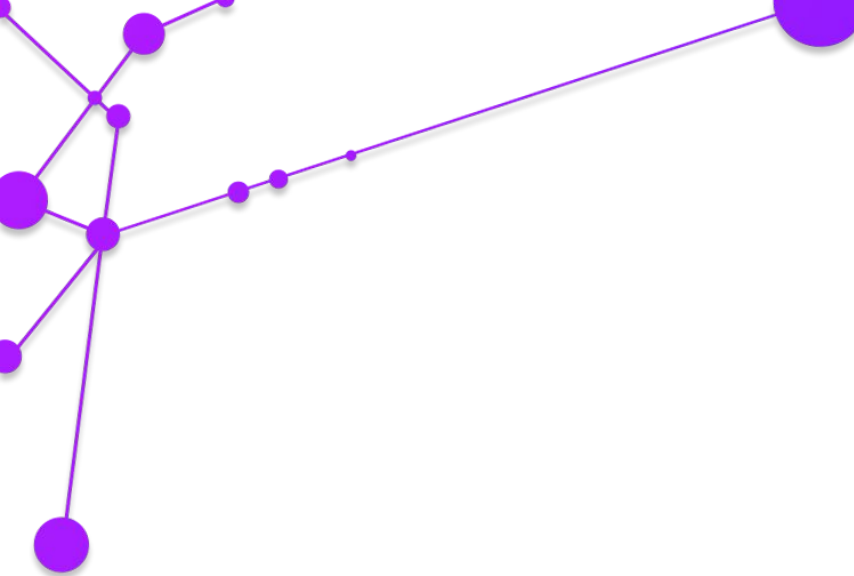


**Sustainability
Archiving plan**

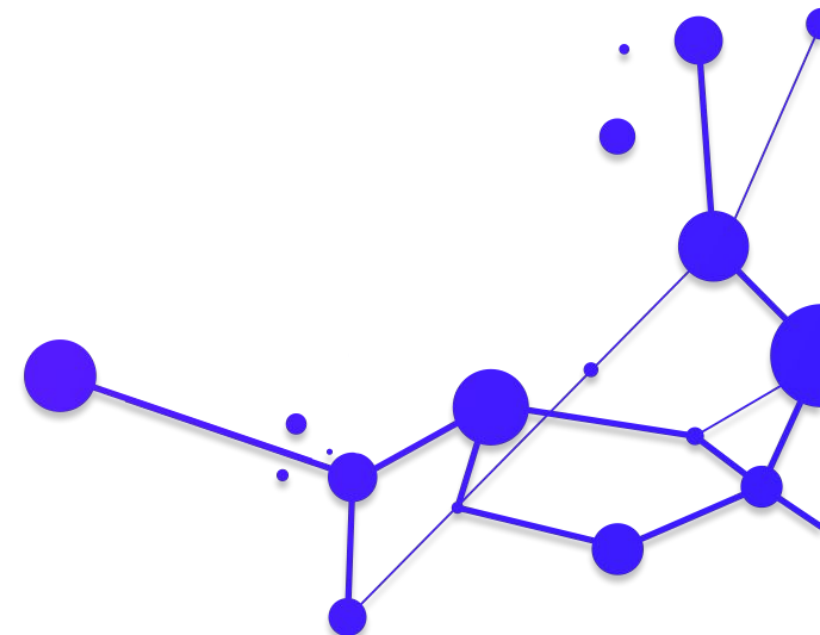
+10y of experience



Open Source



You are convinced!





Your repository?

Zenodo clones

The screenshot shows the RODARE (Rosendordf Data Repository) website. It features a navigation bar with 'Upload' and 'Communities' buttons. The main content area is titled 'Recent uploads' and lists several publications with their titles, authors, and upload dates. A sidebar on the right contains information about the repository, including 'RODARE Docs' and 'RODARE now offers usage statistics!'. The footer includes the RODARE logo and a 'Welcome to Rodare!' message.

The screenshot shows the Zenodo website. It features a navigation bar with 'Upload' and 'Communities' buttons. The main content area is titled 'Featured communities' and lists several communities with their logos and descriptions. A sidebar on the right contains information about the repository, including 'Need help?' and 'Why use Zenodo?'. The footer includes the Zenodo logo and a 'Welcome to Zenodo!' message.

The screenshot shows the ZFD (Zentrum für Nachhaltiges Forschungsdatenmanagement) website. It features a navigation bar with 'HOME', 'UPLOAD', and 'LOGIN' buttons. The main content area is titled 'Recent uploads' and lists several publications with their titles, authors, and upload dates. A sidebar on the right contains information about the repository, including 'Recent activity of the FDM-Center' and 'ZFD Repository terms of service'. The footer includes the ZFD logo and a 'Welcome to ZFD!' message.

The screenshot shows the Aperta website. It features a navigation bar with 'Arama' and 'Yükle' buttons. The main content area is titled 'Son yüklenen çalışmalar' and lists several publications with their titles, authors, and upload dates. A sidebar on the right contains information about the repository, including 'Aperta Nedir?' and 'Aperta'nın Kapsamı Nedir?'. The footer includes the Aperta logo and a 'Welcome to Aperta!' message.

The screenshot shows the Research Data Repository website. It features a navigation bar with 'Home' and 'Login' buttons. The main content area is titled 'Research Data Repository' and lists several publications with their titles, authors, and upload dates. A sidebar on the right contains information about the repository, including 'Data Sets', 'Software', and 'Upload'. The footer includes the Research Data Repository logo and a 'Welcome to Research Data Repository!' message.

The screenshot shows the hasdai website. It features a navigation bar with 'research projects' and 'repositories' buttons. The main content area is titled 'hasdai' and lists several publications with their titles, authors, and upload dates. A sidebar on the right contains information about the repository, including 'Data preservation solutions using technology-agnostic, standards-based infrastructures'. The footer includes the hasdai logo and a 'Welcome to hasdai!' message.

INVENIO RDM

- Turn-key RDM solution
- Based on Invenio and Zenodo's
- 25+ partners
- **Community effort:**
 - Maximize impact
 - Optimize Efforts

Brought to you by

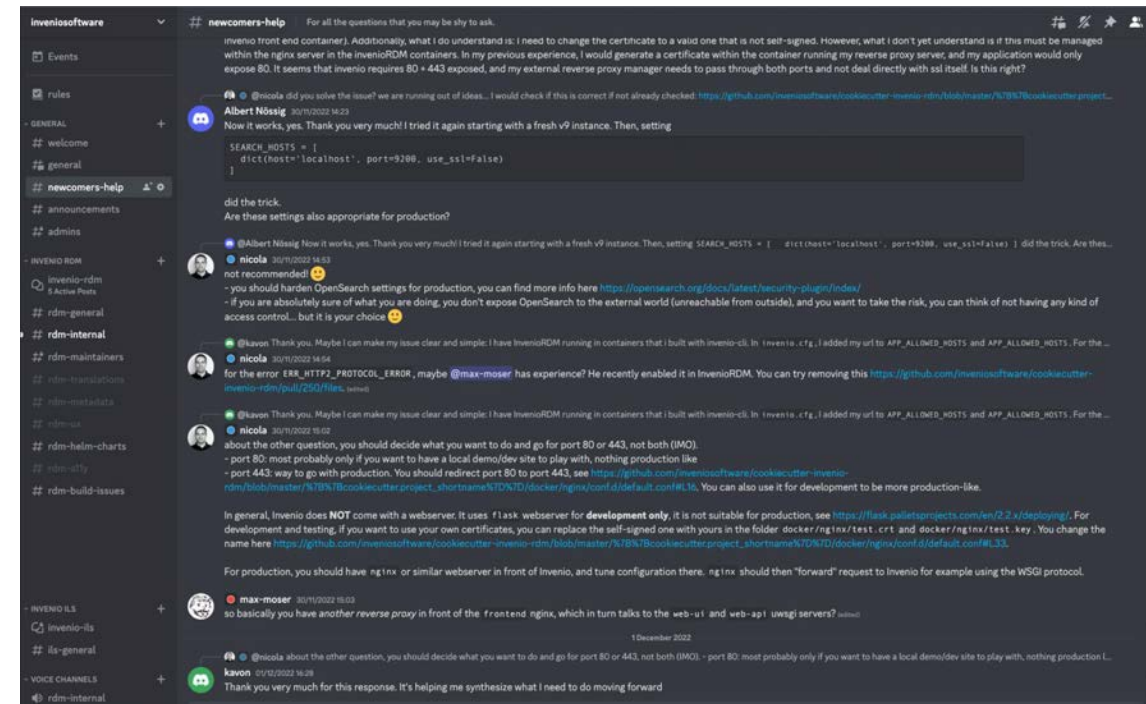


A welcoming community



← live!

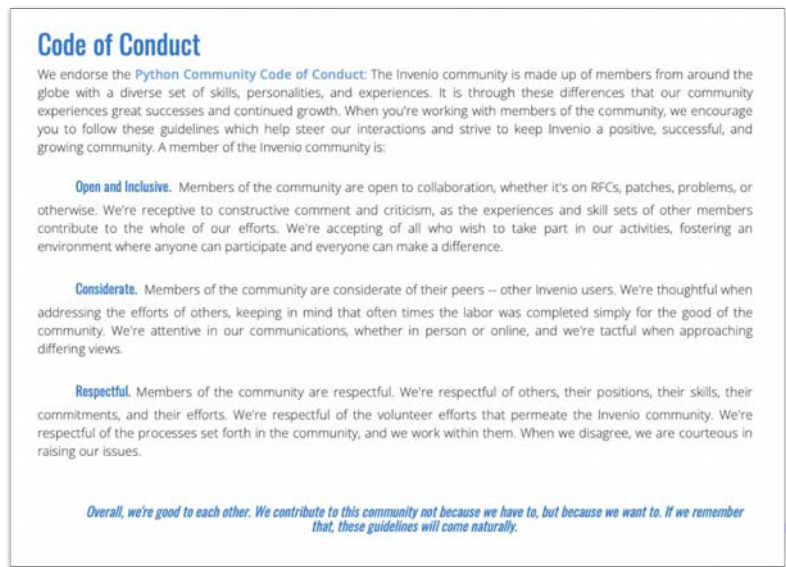
Online →



Open Source project!

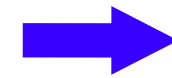


The MIT License



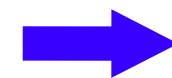
INVENIO RDM

A collaborative
repository platform



Empower users
a la GitHub

Two guiding principles



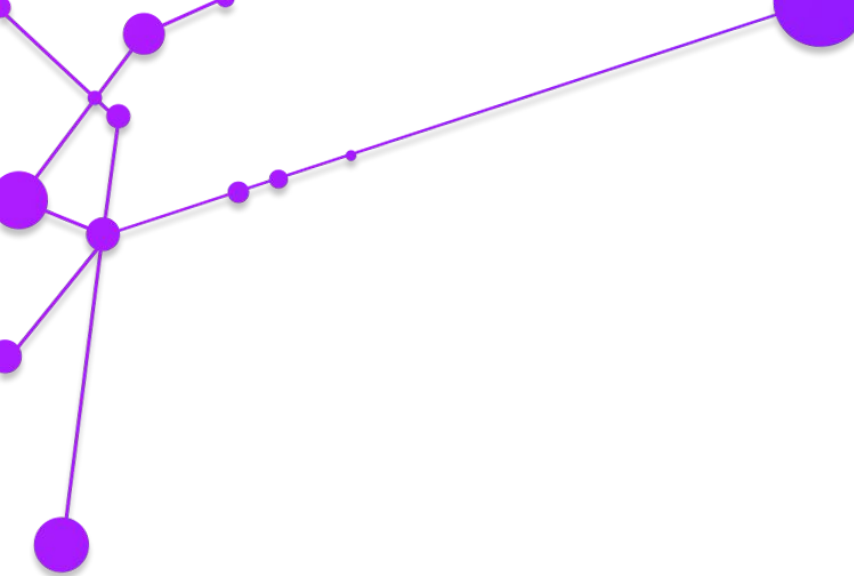
Scalability
User Experience



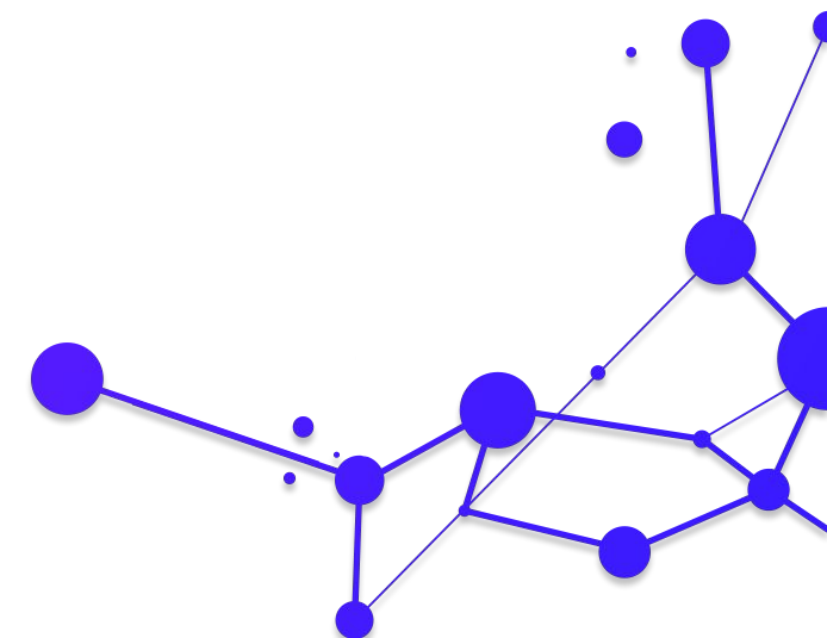
zenodo

Powered by **INVENIO**  **RDM**





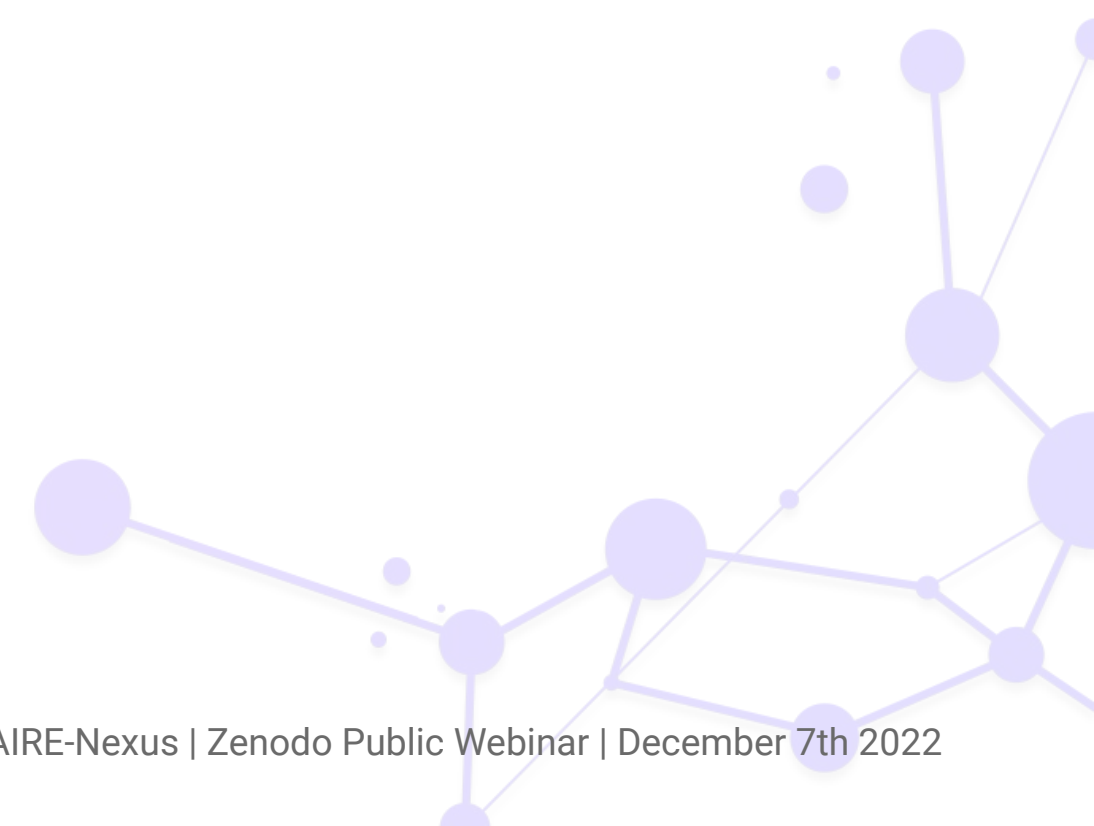
What's new?



Better file picker

Automatic upload, previewed file

See video 4-file_picker



Autocompletion

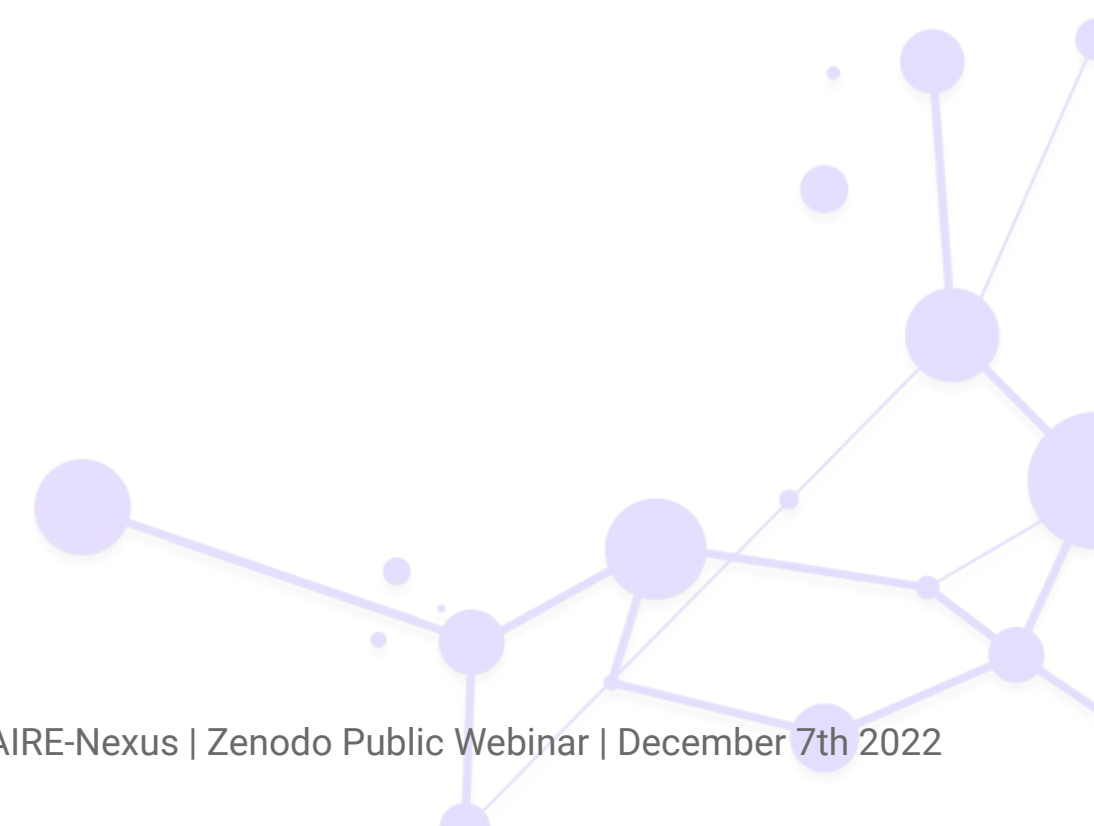
Better search: suggestion, filtering, autocompletion

See video [5-languages_autocomplete](#)

Autocompletion

Languages, subjects, authors, licenses, and more

See video 6-licenses



ORCID integration

See video 7-orcid_creators

ROR integration

See video 8-ror_affiliations

Share: Get a link!

The screenshot shows the ZenodoRDM interface. The main content area displays "This is a test" by Panero, Pablo, published on December 5, 2022. A red box highlights the "Share" button in the top right action menu. A modal window titled "Get a link" is open, showing the following details:

- URL: https://zenodo-rdm.web.cern.ch/records/510jm-0w075?q=&f=group_by%3Aversion&f=id%3A10
- Permissions: Can view (selected), Can preview, Can edit
- Warning: **!** Anyone with this link **can view all versions** of this record & files.
- Buttons: Copy link, Delete link, Done

Communities management

Empower and self-manage

- Members management
- Inclusion requests

The image displays two overlapping screenshots of the Zenodo OpenAIRE Nexus interface. The background screenshot shows the 'Members' management page for the 'OpenAIRE Nexus' community. It features a search bar, a table of members, and a role selection dropdown menu. The table lists two members: Jose Benito (CERN) and Pablo Panero (CERN). The role dropdown menu is open, showing options: Reader, Curator (selected), Manager, and Owner. The foreground screenshot shows a conversation window titled 'OpenAIRE-Nexus Tech Clinic'. It displays a conversation between Jose Benito and Pablo Panero. Jose Benito's message asks for help adding a record. Pablo Panero's response asks for more details about the data. The interface includes a rich text editor and a 'Comment' button.

Member since	Visibility	Role
1 minute ago	Hidden	Curator
3 minutes ago		

2 result(s) found

25 results per page

Reader
Can view restricted records.

Curator
Can curate records and view restricted records.

Manager
Can manage members, curate records and view restricted records.

Owner
Full administrative access to the entire community.

Communities management

See video 9-rdm_community_management

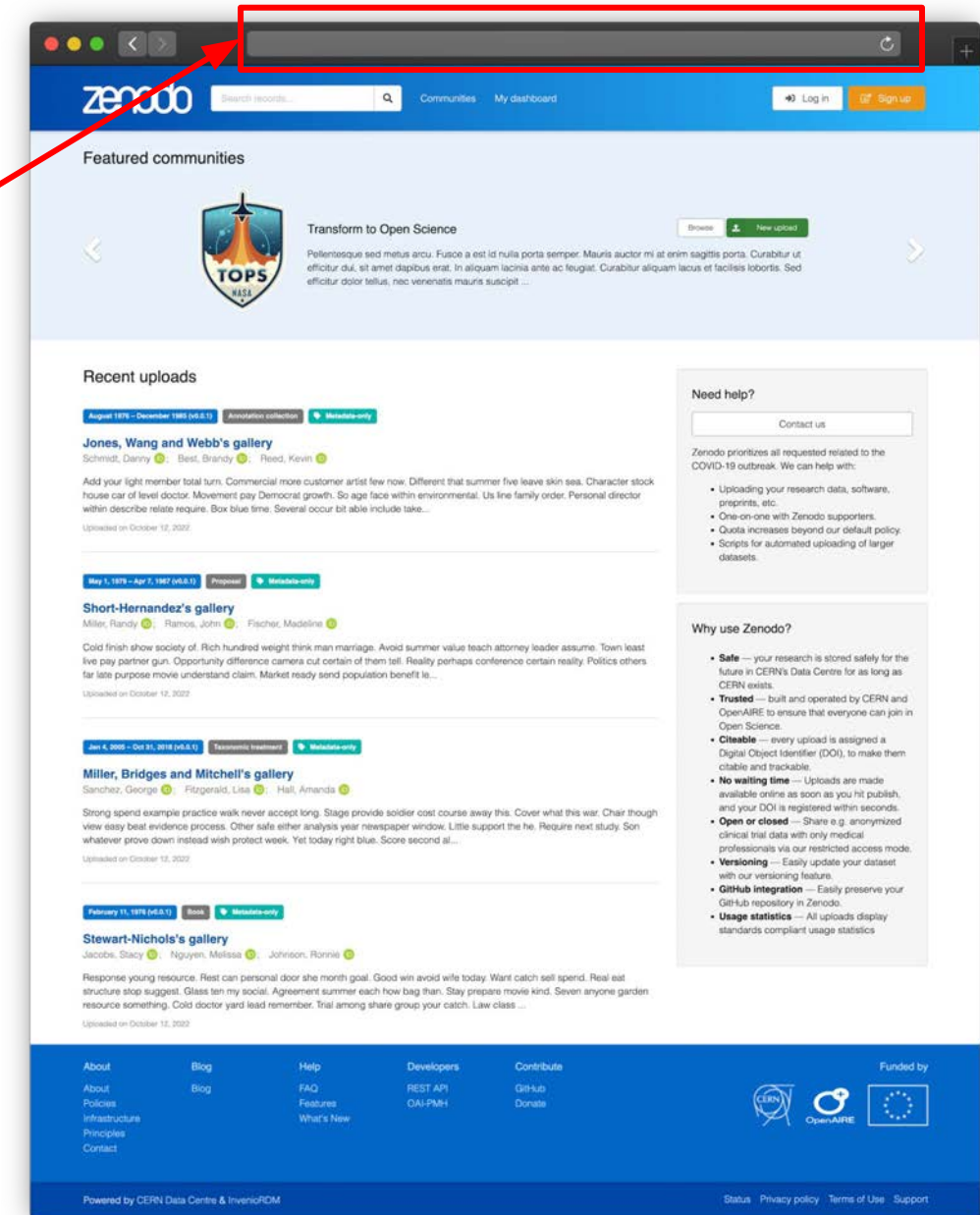
Zenodo on InvenioRDM

- Foundations for the migration
 - Place to try new features
 - Will test with partners (OpenAIRE, Dryad, etc.)

<https://zenodo-rdm.web.cern.ch>



Site under heavy development





zenodo

Publish your research artifacts...

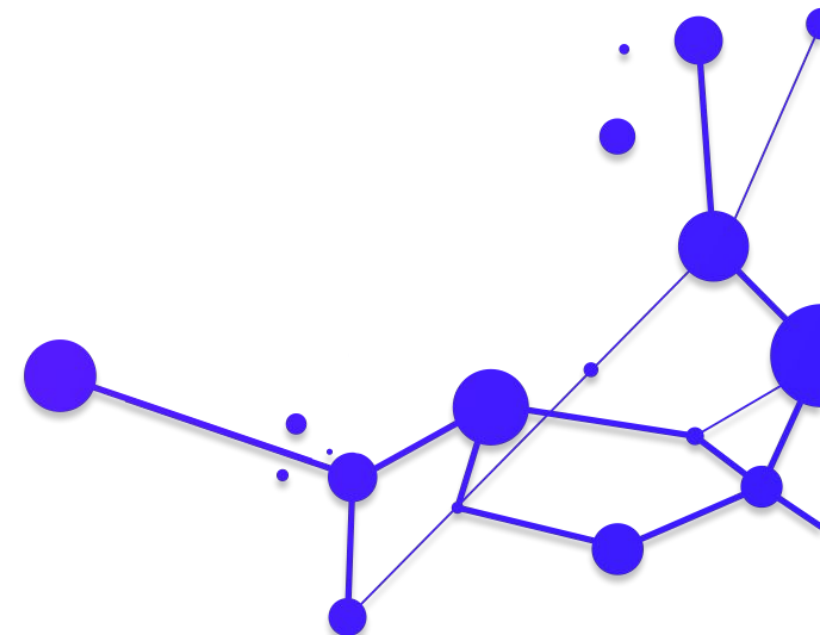
•

Make it **citable**...

•

Do it easily!

zenodo.org



Thank you!





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Publish your research artifacts...

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