

zenodo GREI Use Cases

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Learn more

 <https://zenodo.org/>

 InvenioRDM Software Open Source Community <https://inveniosoftware.org/products/rdm/>

 Documentation <https://inveniordm.docs.cern.ch>

 Try it out! <https://inveniordm.web.cern.ch>

 Chat with us on Discord <https://discord.gg/8qatqBC>

 Send us a message at <https://zenodo.org/support>

Date last updated
January 31, 2025

Generalist Repository Ecosystem Initiative (GREI) Community <https://zenodo.org/communities/grei/>



Zenodo GREI Use Cases are supported by the National Institutes of Health (NIH) Office of Data Science Strategy/Office of the NIH Director pursuant to OTA-21-009, "Generalist Repository Ecosystem Initiative (GREI)" through through Other Transactions Agreement (OTA) Number 1OT2DB000013.

As an NIH-funded researcher, I want to use Zenodo to share my data, so that I can comply with my data management and sharing plan and the conditions of my grant.

This use case highlights ways research teams can leverage generalist repositories to share project data.

Title:

How to share any digital file in Zenodo.

Investigators and affiliations:

This workflow supports any investigator at any stage of their career. Projects from across the translational spectrum – from basic science, to clinical studies, to community partnerships – can leverage Zenodo to share project files and appropriate datasets to comply with the NIH Data Management and Sharing Policy and support access to publicly-funded research.

Data type:
any

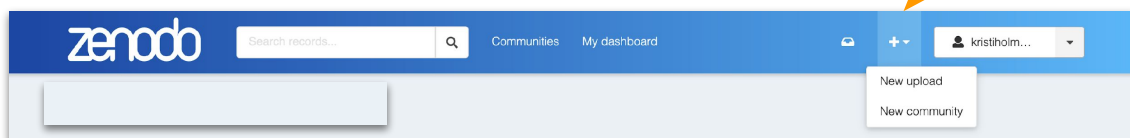
Relevant Citation:
<https://faircookbook.elixir-europe.org/content/recipes/findability/zenodo-deposition.html#>

Use case Contact:
<https://zenodo.org/support>



Share project data:

1. Visit <https://zenodo.org/>.
2. Log in via GitHub or ORCID, or create a new Zenodo user account.
3. Navigate across to top menu bar to “+”. Click and select “New Upload” and the upload page will load.



3. Drag and drop or upload your files > Add required metadata > Save the draft > Add recommended or other additional metadata.
4. Publish and share the DOI with your research community and funders.



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As a researcher, I want to find research data of interest in Zenodo so that I can validate findings, reuse data, and build on work within my discipline.

This use case highlights ways researchers can leverage generalist repositories to find datasets for reuse.

Dataset Title:

Datasets related to particulate air pollution

Investigators:

Researcher
Lab Members
Community and Citizen Scientists

Data type:

Air quality, meteorological, geographic datasets

Date:

Exemplar Use Case

Citations:

Inspired by: Smoot J, Padilla S, Farraj AK. Curr Res Toxicol. 2022 May 27;3:100077. doi: 10.1016/j.crttox.2022.100077

Comparative Genomics Resource:

<https://www.ncbi.nlm.nih.gov/cgr>

Use case contact:

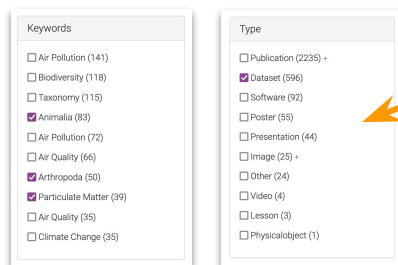
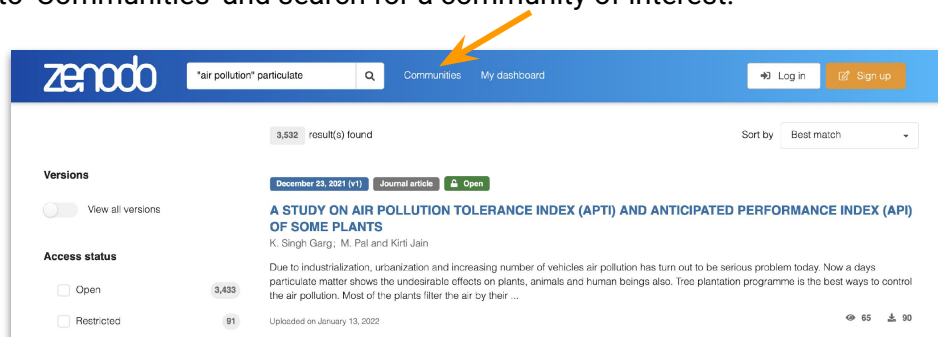
<https://zenodo.org/support>



Background:

I'm an assistant professor at a public university. My research is focused on the impact of particulate air pollution on health. We use in vivo models for our assays, and regularly leverage eukaryotic genomic data resources and tools from NIH in our research, including the [Comparative Genomics Resource](#). Additionally, it is important that I have access to environmental monitoring data, geographic data, and other resources, so that I can avoid unnecessary (and costly) experiments, build on existing knowledge, and mix data to spark new areas of study and test hypotheses. I mentor my lab members to use open science practices such as using open software tools, sharing code and study materials, publishing in the open, and sharing our own data for reanalysis, and validation. We also use Zenodo to share our research materials such as protocols, posters, presentations, data visualizations, and research summaries.

1. Type author name or keywords of interest in the general search box OR navigate to 'Communities' and search for a community of interest.



3. Review records for desired topic or result, narrow results using facets along the left side of the results.
4. Other actions from record pages include: Get citation, View the license, Download file(s), Browse other versions of the record.
5. Export in a variety of formats (BibTeX, CSL, DataCite, Dublin Core, DCAT, JSON, JSON-LD, GeoJSON, MARCXML, or Mendeley).

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I want to report on all datasets from my institution in Zenodo, so that I can ensure compliance of research data sharing and management plan commitments by our researchers.

This use case highlights ways administrators can leverage generalist repositories to track and report data sharing at an organizational level.

Title:
In progress

Investigators and affiliations:
In progress

Date:
Summer 2024

Citations:
In progress

DataCite Commons:
<https://commons.datacite.org>

Use case contact:
<https://zenodo.org/support>

Background

Searching for finding can be accomplished through a query, such as this search for NIH as grant funder using the query: [creators.affiliation:"Northwestern University"](#). Consider filtering your query using the filters along the left-hand side of the page for the resource type you desire, such as data, presentations, etc. View the record, funding, and all associated files.

zenodo creators.affiliation:"Northweste" Communities My dashboard Log in Sign up

Planned intervention: On Wednesday June 26th 05:30 UTC Zenodo will be unavailable for 10-20 minutes to perform a storage cluster upgrade.

380 result(s) found Sort by Newest

Versions
☐ View all versions

Access status
☐ Open 1,406
☐ Restricted 25

Resource types
☒ Dataset 380
☐ Event 318
☐ Software 217
☐ Publication 213
☐ Image 116
☐ Presentation 96
☐ Dataset 96

December 2023 (v1) Dataset Restricted
Synaptic mechanisms modulate the spatiotemporal dynamics of striatal direct pathway neurons and motor output
Marshall, John
This folder contains data associated with a manuscript currently available as an eLife reviewed preprint.
Uploaded on June 11, 2024 | Published in: eLife, 2023.

June 10, 2024 (v1) Dataset Open
Nonhuman Primate Center-Out and Random-Walk Reaching with Multichannel Motor Cortex Electrophysiology
Flint, Robert D.; Slutzky, Marc W.
General Description A rhesus macaque was implanted with a 96-channel microelectrode array (Blackrock Neurotech, Inc.) in the arm area of primary motor cortex (M1). The monkey performed each reaching task with the arm contralateral to the array. We collected broadband data from each electrode at 30 kHz using a 128-channel acquisition system (Cer...
Uploaded on June 10, 2024

May 31, 2024 (v1) Dataset Open
At matched loads, aging does not alter ankle, muscle, or tendon stiffness
Jakubowski, Kristen; Ludvig, Daniel; Lee, Sabrina; and 1 other
Older adults have difficulty maintaining balance when faced with postural disturbances, a task that is influenced by the stiffness of the triceps surae...
been reported at matched levels of effort, but measures typically have

Published May 31, 2024 | Version v1
Dataset Open

At matched loads, aging does not alter ankle, muscle, or tendon stiffness
Jakubowski, Kristen¹; Ludvig, Daniel¹; Lee, Sabrina²; Perreault, Eric¹
Show affiliations

Older adults have difficulty maintaining balance when faced with postural disturbances, a task that is influenced by the stiffness of the triceps surae and Achilles tendon. Age-related changes in Achilles tendon stiffness have been reported at matched levels of effort, but measures typically have not been made at matched loads, which is important due to age-dependent changes in strength. Moreover, there has been limited investigation into age-dependent changes in muscle stiffness. Here, we investigate how age alters muscle and tendon stiffness and their influence on ankle stiffness. We hypothesized that age-related changes in muscle and tendon contribute to reduced ankle stiffness in older adults and evaluated this hypothesis when either load or effort were matched. We used B-mode ultrasound with joint-level perturbations to quantify ankle, muscle, and tendon stiffness across a range of loads and efforts in seventeen healthy younger and older adults. At matched loads relevant to standing and the stance phase of walking, there was no significant difference in ankle, muscle, or tendon stiffness between groups (all $p > 0.13$). However, at matched effort, older adults exhibited as significant decrease in ankle (27%; $p = 0.008$), muscle (37%; $p = 0.02$), and tendon stiffness (22%; $p = 0.03$) at 30% of maximum effort. This is consistent with our finding that older adults were 36% weaker than younger adults in plantarflexion ($p = 0.004$). Together, these results indicate that, at the loads tested in this study, there are no age-dependent changes in the mechanical properties of muscle or tendon, only differences in strength that result in altered ankle, muscle, and tendon stiffness at matched levels of effort.

Notes
Funding provided by: National Institute on Aging
ROR ID: <https://ror.org/049v75w11>
Award Number: F31AG069412
Funding provided by: American Society of Biomechanics
Crossref Funder Registry ID: <http://dx.doi.org/10.13039/100018041>
Award Number:

Files (143.8 kB)
Name Size
Data.xlsx 143.1 kB
README.md 702 Bytes
Download all
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I want to report on all datasets from my institution in Zenodo, so that I can help ensure compliance of research data sharing and management plan commitments by our researchers.

This use case highlights ways administrators can leverage generalist repositories to track and report data sharing at an organizational level.

Investigators and affiliations:

Northwestern-affiliated investigators

Date:

ongoing

Citations:

DataCite Commons:

<https://commons.datacite.org>

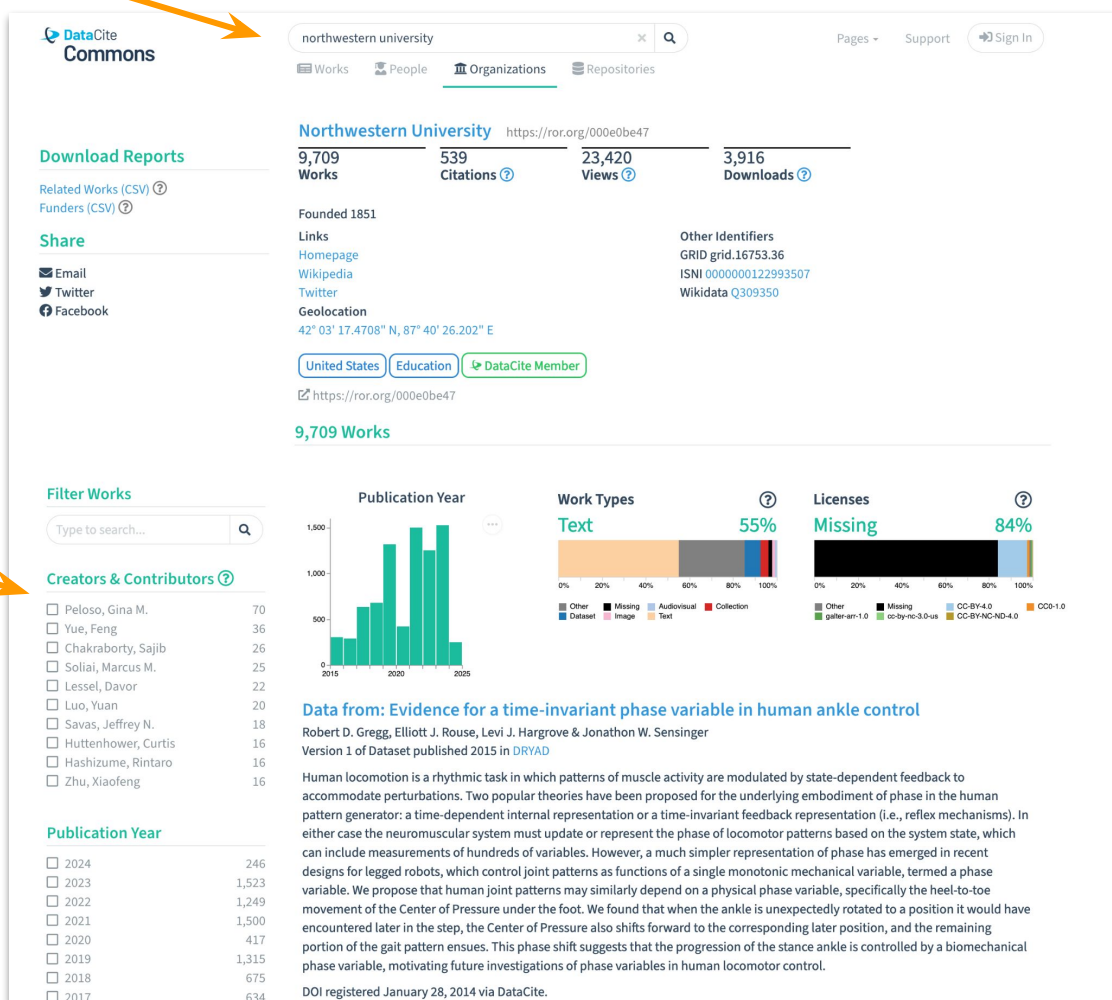
Use case contact:

<https://zenodo.org/support>

Background

It is possible to search for datasets in Zenodo using DataCite Commons, a web search interface for the [PID Graph](#), the graph formed by the collection of scholarly resources such as publications, datasets, people and research organizations, and their connections. The PID Graph uses persistent identifiers and [GraphQL](#), with PIDs and metadata provided by DataCite, Crossref, ORCID, and others.

1. Visit <https://commons.datacite.org>, select "organizations from the top menu bar and search by ROR identifier or organization name.
2. Visualize contents through the dashboard and narrow results using facets along the left side of the results.



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As a funder, I want to find datasets we have funded in Zenodo so that I can report on policy compliance and track impact of research funding and usage of data.

This use case highlights ways funders can leverage generalist repositories to track compliance with data sharing policies and understand data reuse.

Title:
In progress

Investigators and affiliations:
In progress

Date:
Summer 2024

Use case contact:
<https://zenodo.org/support>



Background

Currently in progress, will eventually be fully available via dedicated dashboards via the new InvenioRDM code. In the meantime, funding can easily be shown through query, such as this search for NIH as grant funder using the query:

[grants.funder.doi:"10.13039/100000002"](https://zenodo.org/record/10.13039/100000002)

zenodo grants.funder.doi:"10.13039/100000002" Communities My dashboard Log in Sign up

Planned intervention: On Wednesday June 26th 05:30 UTC Zenodo will be unavailable for 10-20 minutes to perform a storage cluster upgrade.

349 result(s) found Sort by Most viewed

Versions
☐ View all versions

Access status
☐ Open 664
☐ Restricted 25
☐ Embargoed 2

Resource types
☒ Dataset 349
☐ Publication 142
☐ Software 96
☐ Presentation 47
☐ Other 16
☐ Poster 16
☐ Image 10
☐ Lesson 5
☐ Model 5
☐ Workflow 3

Subjects
☐ metabolomics 66
☐ exposome 63
☐ CCDB 62
☐ ECID 62
☐ correlation 62
☐ exposomics 62
☐ public health 62
☐ ECHO 28
☐ HHEAR 24
☐ Crystallography 17

File type
☐ ZIP 255

January 30, 2024 (v1.12.1) Dataset Open
Mammal Diversity Database
Mammal Diversity Database
Accurate taxonomy is central to the study of biological diversity, as it provides the needed evolutionary framework for taxon sampling and interpreting results. While the number of recognized species in the class Mammalia has increased through time, tabulation of those increases has relied on the sporadic release of revisionary compendia like th...
Uploaded on January 31, 2024
15 more versions exist for this record
28800 13333

September 28, 2018 (2018q2) Dataset Open
Drug Indications Extracted from FAERS
Stupp, Gregory S.; Su, Andrew I.
This dataset contains drug indications extracted from the FDA Adverse Event Reporting System (FAERS). Source code here: <https://github.com/stupp/faers> Method Outline Data files are extracted from zip files, parsed from csvs, and imported into a MySQL database (see parser.py). Duplicate records are then de-duplicated by taking only t...
Uploaded on September 28, 2018
3168 686

May 30, 2022 (0.0.6) Dataset Open
eeg-workshops/mkpy_data_examples/data
Thomas P. Urbach
EEG data files for eeg-workshops/mkpy_data_examples. For more information see the docs and github source. Updated docs and data files for mkpy v0.2.7, Python 3.9. mkh5 format HDF5 EEG recordings with and without included epoch tables.
Uploaded on May 31, 2022
4 more versions exist for this record
1738 8792

April 22, 2019 (0.5) Dataset Open
Big Data to Knowledge (BD2K) Training Coordinating Center (TCC) Educational Resource Discovery Index (ERuDite) as Linked Data
Ambite, Jose Luis; Gordon, Jonathan; Fierro, Lily; and 7 others
This is a release of the Big Data to Knowledge (BD2K) Training Coordinating Center (TCC) Educational Resource Discovery Index (ERuDite) as Linked Data. ERuDite contains over 11,000 training resources on data science including courses (MOOCs), video tutorials, conference talks, and other materials. The metadata of these resources is described un...
Part of Linked Data
Uploaded on April 22, 2019
4 more versions exist for this record
1720 406

December 25, 2020 (v1) Dataset Open
Human assemblies evaluated in the hifiasm paper
Haoyu Cheng; Gregory T Concepcion; Xiaowen Feng; and 2 others
Human assemblies evaluated in the Cheng et al (2021). Non-human assemblies are available at doi:10.5281/zenodo.4393750. File "ONT" were generated by Shafin et al (2020), "DipAsm" by Garg et al (2020) and "PAGS" by Porubsky et al (2020). The rest of the assemblies were generated by Cheng et al.
Uploaded on December 25, 2020
1677 1591

January 19, 2022 (v1.6.19-b1-1 stable beta) Dataset Open
Example Microscopy Metadata JSON files produced using Micro-Meta App to document the acquisition of example images using a custom-built TIRF Epifluorescence Structured Illumination Microscope
Karl Belve; Alessandro Rigano; Kevin Fogarty; and 1 other

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Multiple Repository Use Case: As an NIH-funded researcher, I need multiple repositories.

My heterogeneous dataset and code can be partially deposited in an NIH-funded or discipline-specific repository, but other portions cannot be matched to such repositories and must be shared through a generalist repository, in order to maximize data sharing for full compliance.

This use case outlines how Zenodo meets the data sharing needs of researchers with heterogeneous datasets and code, and whose institutions do not support institutional repositories

Investigators and affiliations:

This workflow supports all investigators needing appropriate repositories for their data and/or code in order to comply with the NIH Data Management and Sharing Policy.

Date: 2023 - onwards

Data type:

Mixture of brain imaging and csv-based quantitative data, coded qualitative data, and software/code

Example Citation:

Study with dataset in the DANDI Archive (<https://doi.org/10.48324/dandi.000469/0.240123.1806>) and source code in Zenodo (<https://doi.org/10.5281/zenodo.8161627>)

Use Case Date:

June 2024

Use case Contact:

<https://zenodo.org/support>



Background:

A hypothetical investigator's study has produced thousands of images from immunostaining experiments which they are required to share per the NIH's Data Management and Sharing Policy. The images meet the scope of NIH-recommended repository the [DANDI Archive](#). The dataset also contains related transcripts of interviews where participants describe living with various neurological conditions. The transcripts cannot be deposited in DANDI, but the investigator still needs to share them FAIRly and to link them to the data in DANDI. The investigator's institution does not support its own institutional repository.

The investigator deposits the interview files in Zenodo, grouping multiple data files together in one record. They use the Related Works fields to link this record to the DANDI record by inserting the DOI from DANDI. They also use Zenodo's GitHub integration feature to seamlessly catalog their code. They also add links to related publications resulting from the study, maximizing citability, credit, and impact.

The investigator's team has data sharing roles, curation roles, a depositor role, and a discoverability role in terms of cataloging their deposit and linking related items. The investigator and their institution use data and code DOIs to document compliance and track outputs, as well as PIDs for credit and impact tracking, and Zenodo's Related Works fields to enhance findability, reusability and reproducibility, and citability. Librarians and research support staff are involved in all the above roles.

The infrastructure utilized plays two types of data storage roles, one targeted and file-type specific (DANDI), and one generalist, while maximizing findability, accessibility, discoverability, and interoperability (Zenodo).

Related works

Specify identifiers of related works. Supported identifiers include DOI, Handle, ARK, PURL, ISSN, ISBN, PubMed ID, PubMed Central ID, ADS Bibliographic Code, arXiv, Life Science Identifiers (LSID), EAN-13, ISTC, URNs, and URLs.

Related works

Relation *	Identifier *	Scheme *	Resource type
Select relation...			

+ Add related work



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As an institution, I want to use Zenodo directly as my institutional data repository.

Our institutional resources do not encompass supporting an institutional repository, therefore we will commit to using a GREI repository to assist our researchers to share data for compliance with funder and publisher data sharing mandates.

This use case outlines how Zenodo can serve as a recommended data repository for those institutions unable to support their own repository

Investigators and affiliations:

All investigators at an institution may utilize a GREI generalist repository to share data, with deposit and cataloging assistance from local support staff as part of the deposit workflow

Date: 2023 - onwards

Data type:

All data and file types

Use Case Date:

June 2024

Use case Contact:

<https://zenodo.org/support>



Background:

Our institution needs a long-term preservation repository supporting FAIR data to host our researchers' data and code deposits and associated metadata records.

To support compliance with funder and publisher mandates, as well as metrics and impact tracking, a repository must issue DOIs to all deposits, support linking of data, code, and other outputs via Related Works fields, and support PIDs (ORCID, ROR) to uniquely identify our researchers and organizations.

The repository must meet NIH's Desirable Characteristics for All Data Repositories, including supporting robust metadata, metrics, open protocols for data access, and long-term preservation. Zenodo's features include all of the above, including easy drag & drop file upload, the DataCite metadata schema (with minimum required fields enabled), and easy assignment of keywords. Impact can be tracked through views and downloads, and the entire holdings of institutions can be accessed via the API.

Findability is enhanced through metadata harvesting and amplification of Zenodo's records through Google Dataset Search and DataCite Commons.

zenodo Search records... Communities My dashboard

Select the community where you want to submit your record. [Select a community](#)

Files

Storage available 0 out of 100 files 0 bytes out of 50.00 GB

Drag and drop files - or - [Upload files](#)

Basic information

Digital Object Identifier*

Do you already have a DOI for this upload? ☒ Yes ☐ No

A DOI allows your upload to be easily and unambiguously cited. Example: 10.1234/foo.bar

Resource type*

Title*



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As an institution, I want to capture and preserve research data from my institution by using Zenodo as an institutional repository. (Zenodo Communities feature)

Our institution wants a dedicated space that we can customize to serve as an institutional repository to support our researchers complying with funder and publisher data sharing mandates.

This use case highlights ways that Zenodo's features help support those wishing to use the generalist repository as their institutional repository and highlights the "communities" feature in Zenodo.

Investigators and affiliations:

The features and workflows described here support any researcher at any institution, and in any stage of their career.

Data type:

Any

Use Case Date:

June 2024

Use case Contact:

<https://zenodo.org/support>

Background:

Zenodo was designed as a FAIR repository for the research outputs of the European Union. As such, it has several key features that allow it to function as an institutional repository for any research institutions which don't host their own:

- Mints a DOI for each deposit
- Utilizes the robust DataCite metadata schema and the OAI-PMH protocol to maximize discoverability
- Features **branded communities**: Upload a graphic and branding description for your institution and create a community (collection page) to which your institution's deposits can be made. This makes reporting and metrics gathering easier.

In a workflow scenario, staff supporting research at an institution can create the branded community, then make deposits of curated datasets with appropriate metadata descriptors. They or other institutional staff can later measure the impact of these materials by studying the metrics, and can compile records through an API search to report to funders that data sharing mandates have been complied with.

In the above scenario, researchers with data sharing needs are provided with a branded section of a repository for sharing, the institution's need for a robust data repository is met, data sharers and data gatherers can both easily utilize Zenodo's deposit form and its records, and the infrastructural need for a branded area for an institution's deposits is met.

The screenshot displays the Zenodo interface for the Hamburg University of Technology (TUHH) community. The header includes the Zenodo logo, a search bar, and navigation links for 'Communities' and 'My dashboard'. The community page for TUHH is shown, with a 'New upload' button. The 'Records' tab is active, displaying 8 results. The results are sorted by 'Newest'. The first result is a dataset titled 'Integrated Simulation-Based Optimization of Operational Decisions at Container Terminals - Dataset' by Kastner, Marvin; Nellen, Nicole; Schwientek, Anne; and 1 other. It was uploaded on January 27, 2021. The second result is a dataset titled '3DAnatomicalRatModel: A printable version of a 3D anatomical rat model' by Miriam Exner; Patryk Szargulski; Peter Ludwig; and 2 others. It was uploaded on January 6, 2020. The left sidebar allows filtering by 'Access status' (Open, Restricted) and 'Resource types' (Software, Poster, Dataset, Presentation).

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I want to implement the Zenodo repository software InvenioRDM at my institution for my institutional data repository.

We want an institutional repository with all of the features of Zenodo, to support preservation, sharing, discoverability, collaboration, reuse, and credit for a wide range of digital artifacts and data to support our researchers with FAIR best practices and compliance with data sharing mandates.

This use case outlines how a Zenodo software (InvenioRDM) can serve as an institutional repository.

Investigators and affiliations:

All investigators at an institution may utilize a GREI generalist repository to share data, with deposit and cataloging assistance from local support staff as part of the deposit workflow

Date: 2023 - onwards

Data type:

All data and file types

Citations:

- <https://prism.northwestern.edu/>
- <https://data.caltech.edu/>
- <https://www.tugraz.at/sites/rdm/tools/tu-graz-repository>

Use Case Date:

June 2024

Use case Contact:

<https://zenodo.org/support>



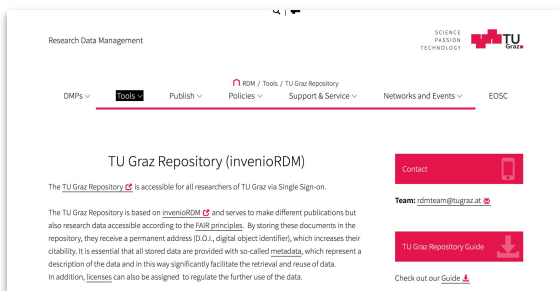
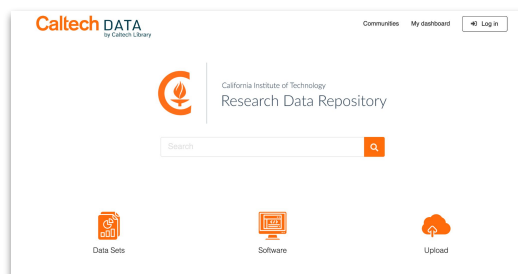
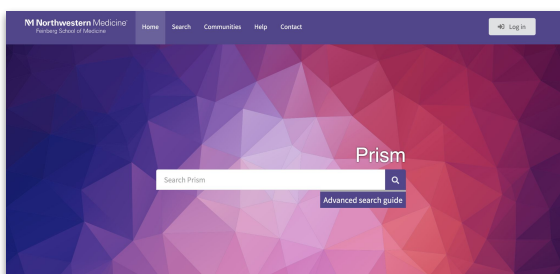
Background:

Zenodo (the service) is built on InvenioRDM (the software). The InvenioRDM framework serves as a modular and nimble foundation for next-generation features that empower preservation, sharing, discoverability, connection, reuse, and credit for a **wide range of digital artifacts and data** – enabling best practice workflows to equitably drive knowledge forward. Features include

InvenioRDM can be implemented by anyone, anytime, offering a straightforward way for any organizations to enjoy Zenodo's best-in-class features, scalable architecture, and collaborative activities across the wider InvenioRDM community.

Zenodo's commitment to collaborative innovation and open infrastructure is supported through a wide range of collaborative activities, including the InvenioRDM Open Source Community, a partnership of over thirty global research and cultural organizations and research networks which have joined forces support a sustainable open source project, facilitate local implementations, and advance a dynamic and successful open ecosystem. The community is strengthened by open information sharing, public discussions, and robust collaboration. The InvenioRDM community powers innovation and enables us to anticipate and sustainably support continued growth and evolution.

For more information or to arrange a demo, email Community Manager Sara Gonzales at: sara.gonzales2@northwestern.edu.



Website – Governance & Collaboration
<https://invenioinformatics.org>

Documentation
<https://inveniordm.docs.cern.ch>

Try it out! <https://inveniordm.web.cern.ch>

Chat with us on Discord
<https://discord.gg/8qatqBC>

Generalist Repository Ecosystem Initiative (GREI) Community <https://zenodo.org/communities/grei/>

Zenodo GREI Use Cases are supported by the National Institutes of Health (NIH) Office of Data Science Strategy/Office of the NIH Director pursuant to OTA-21-009, "Generalist Repository Ecosystem Initiative (GREI)" through Other Transactions Agreement (OTA) Number 10T2DB000013.



As a researcher, I want to use Zenodo to share big data whose volume, variety, velocity, or veracity requires special infrastructure functionality or handling.

We have a large and complex dataset that is restricted and requires compliance with the applicable Data Use Agreement (DUA). We want to make it easy for users to access the README file, data dictionary, contribution statement, and version information.

This use case outlines how Zenodo software (InvenioRDM) can support sensitive big data workflows.

Investigators and affiliations:

Dr. Yuan Luo leads a research team from Northwestern, University Tufts University, Washington University in St. Louis, and University of Alabama at Birmingham, with support from MIT.

Date: 2023 - onwards

Data type:

Metadata for restricted access dataset

Files: Contributors, Data dictionary, README, Version

Citations:

<https://critical-consortium.github.io/>

Luo, Y, et al. (2024). Collaborative Resource for Intensive care Translational science, Informatics, Comprehensive Analytics, and Learning (CRITICAL) (1.0) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.14532192>

Use Case Date:

February 2025

Use case Contacts:

critical@northwestern.edu



Background:

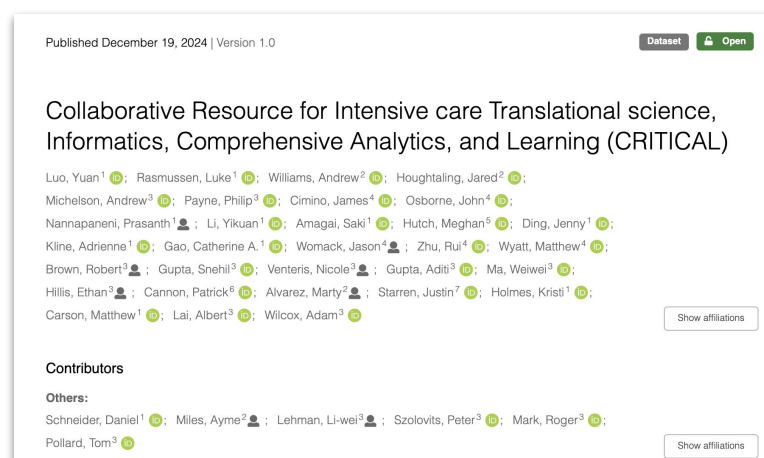
The CRITICAL dataset is the first cross-Clinical and Translational Science Award (CTSA) initiative to create a multi-site, multimodal, de-identified clinical dataset. It combines deep-data depth with broad-data width, addressing a major unmet need in healthcare research. The dataset encompasses comprehensive longitudinal inpatient and outpatient data, including pre-, during- and post-ICU admissions, for approximately 400,000 distinct critical-care patients. This diverse dataset supports the exploration of urgent clinical problems and facilitates the development of fair and generalizable AI tools for advanced patient monitoring and decision support.

The dataset has been curated to serve the research community, fostering innovations in AI/machine learning (ML), outcomes research, and other translational science domains. Its unique combination of size, diversity, and comprehensiveness makes it a valuable resource for tackling long-standing clinical challenges.

The metadata provided for this dataset is licensed under Attribution 4.0 International (CC BY 4.0). Please note that access to the data itself is restricted and requires compliance with the applicable Data Use Agreement (DUA). More information about the DUA and how to request access can be found at <https://critical.fsm.northwestern.edu/>, or by contacting critical@northwestern.edu.



The CRITICAL project established a metadata-only record in Zenodo to support discovery and access to CRITICAL project data. The record of the dataset enables a citable output, supports discoverability and metrics, and helps facilitate access to the restricted dataset with a Data Use Agreement (DUA)



Website: <https://critical.fsm.northwestern.edu/>

Contact: critical@northwestern.edu

Funding: NIH National Center for Advancing Translational Sciences (5U01TR003528-04)

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*Built for the speed
of Open Science*

Background.

Zenodo is a generalist repository developed through the European Commission OpenAIRE program and operated by CERN. Zenodo serves as an open, dependable home for science, enabling researchers to share and preserve any research outputs in any size, any format, and from any discipline. Since its launch over 10 years ago, Zenodo has served as essential interdisciplinary infrastructure to support scholars working toward open science, enabling them to meet open access and data sharing requirements. The platform has constantly evolved to offer the research community a dependable environment for open science. Significant features added over the years support users to mint digital object identifiers (DOI) to support reproducible workflows and enable citation of deposited works, support for a wide range of data and license types, integration with critical infrastructure tools such as GitHub, and other advancements. Ultimately, Zenodo brings extensive experience and dedication to the successful delivery of technologies that support best practice open science.

Zenodo is built by researchers for researchers.

Zenodo (the service) is built on InvenioRDM (the software). The InvenioRDM software framework serves as a modular and nimble foundation for next-generation features to empower preservation, credit, discovery, sharing, and reuse of a wide range of digital artifacts and data – enabling best practice workflows to drive knowledge forward. This work is user driven by carefully understanding user experience and deliberate incorporation of best practices and standards. Zenodo has experienced exponential growth in users, content, and traffic, with the platform and features successfully and reliably meeting this challenge.





Open infrastructure, best practices, and community.

To anticipate and support Zenodo's continued growth, a bottom-to-top revamp of the software stack was completed, resulting in InvenioRDM, a born-interoperable turnkey solution for digital repositories. InvenioRDM is based on the same pillars that made Zenodo what it is today: a resilient, top-of-the-class user experience and scalable platform at the service of Open Science. InvenioRDM offers a modern design and robust and active open source community.

This engine behind Zenodo, InvenioRDM, is available for institutions worldwide and can be customized to your institutional or domain-specific needs, staying close to Zenodo's simple and seamless user experience. This means that organizations can offer the user-focused experience that Zenodo users have depended on for years to manage and share data, and the wide range of digital objects required to drive modern interdisciplinary research. The advantages of implementing open source InvenioRDM on the local level include a modern web architecture and standards that make it easy to deploy, maintain, and use, as well as a wide range of features to streamline good data practice and boost value throughout the research lifecycle. Whether using the Zenodo service directly or using its InvenioRDM software to power a local repository, users can depend on a feature-rich, dependable, and user-friendly experience that leverages best practices in technology and data standards to enable preservation, data sharing, and discovery.

Stay up to date with Zenodo at <https://blog.zenodo.org/> and learn more about the InvenioRDM open source project at <https://inveniosoftware.org/products/rdm/>.

Learn more

-  Website – Governance & Collaboration <https://inveniosoftware.org>
-  Documentation <https://inveniordm.docs.cern.ch>
-  Try it out! <https://inveniordm.web.cern.ch>
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