Digital Repositories @ CERN

FCCIS Kickoff Meeting

Jose Benito Gonzalez Lopez IT-CDA-DR

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Digital Repositories Section

Developing Open Source software

Running institutional and multidisciplinary repositories

Building Open Science Infrastructure



zenodo.org



cds.cern.ch



opendata.cern.ch



reana.io



Invenio

Open Source; Successfully used by >70 production services

Zenodo

CDS CDS Videos Library Loans

CERN Open Data CERN Analysis Preservation

INSPIRE

Many more





Expertise in preservation

1989 first Web proposal



1993

CERN Preprint Server on the web 2000

CERN Document Server multimedia, internal notes, ...

2006

Invenio is born FOSS Digital Library http://inveniosoftware.org

2019

InvenioRDM Kickoff

1991 WWW software release



1996

CERN Web Library books, periodicals

2002

CDSWare released as FOSS

2013 Zenodo

zenodo

2020

InvenioRDM Multidisciplinary Repository

InveniolLS

Book Loan

Circulation



Digital Repositories





CERN Document Server
Access articles, reports and multimedia content in HEP

cds.cern.ch

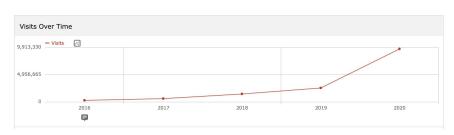




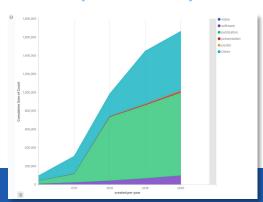


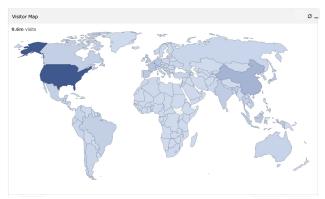
Zenodo - Stats

Yearly: 9.6 million in 2020 >4 times more than 2019!



Records per year (total: >1.7M)



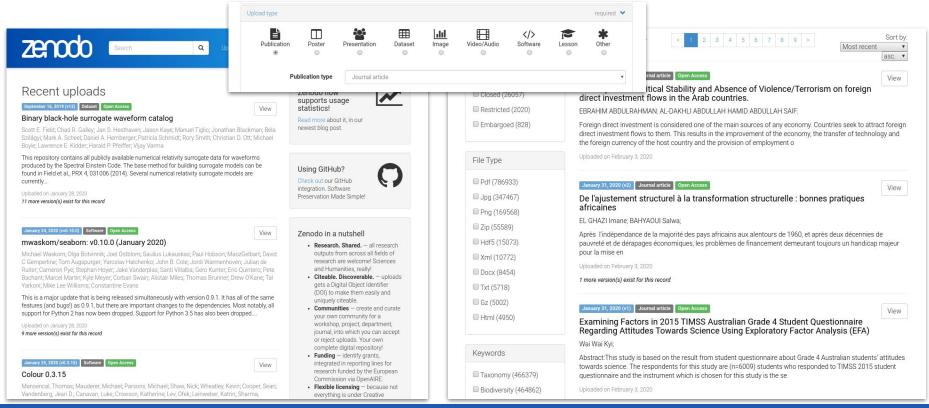


Weekly up to Oct 2020





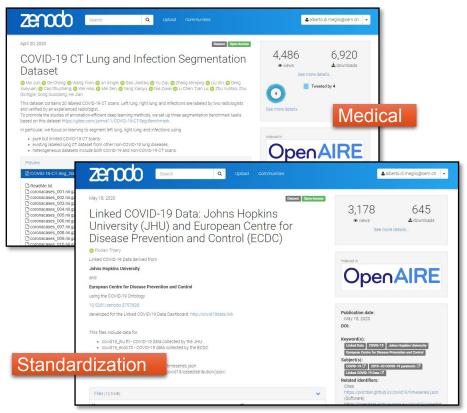
Upload, Describe, Share

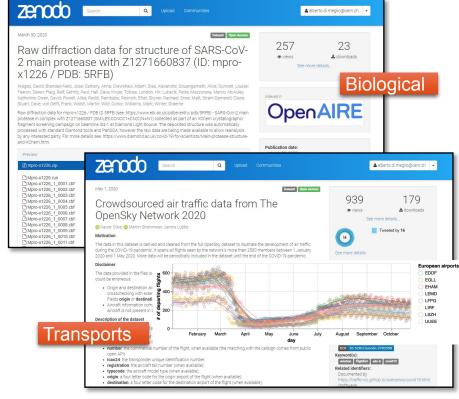




Examples of Datasets in Zenodo



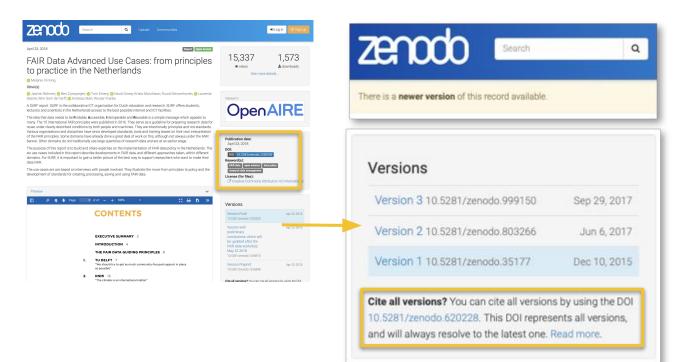


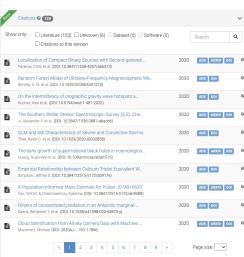




Reference

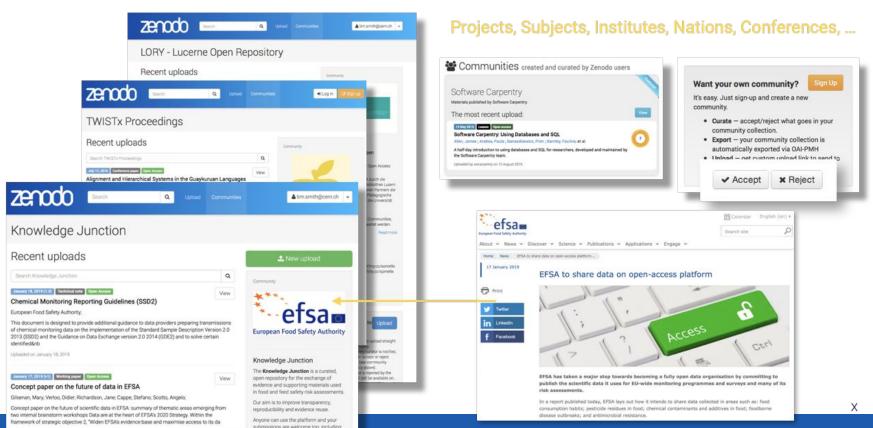






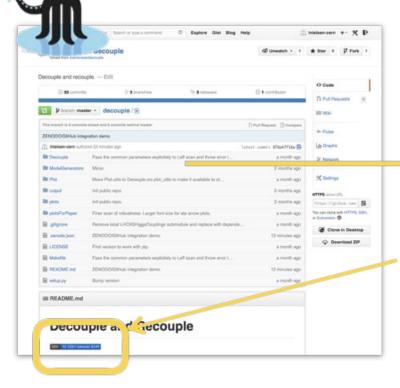


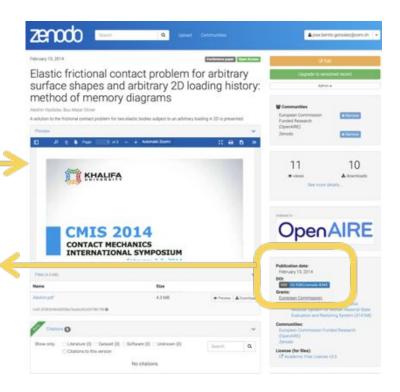
Communities





Archive: GitHub integration





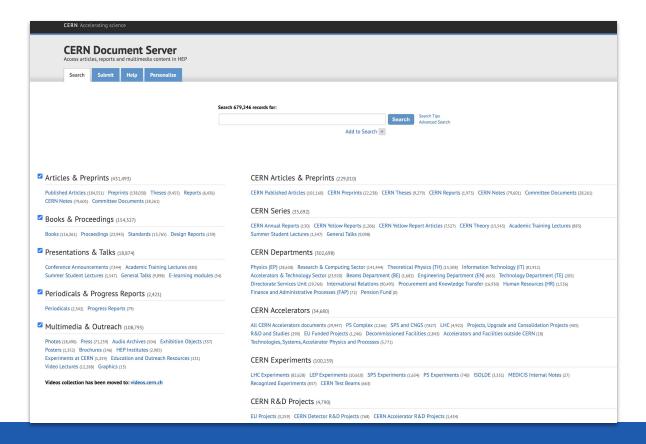


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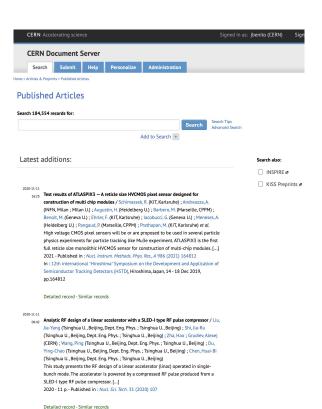


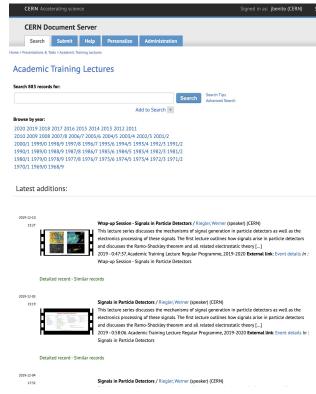
CDS

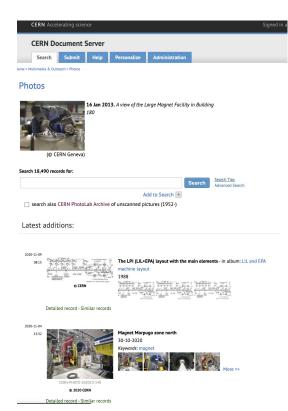




CDS

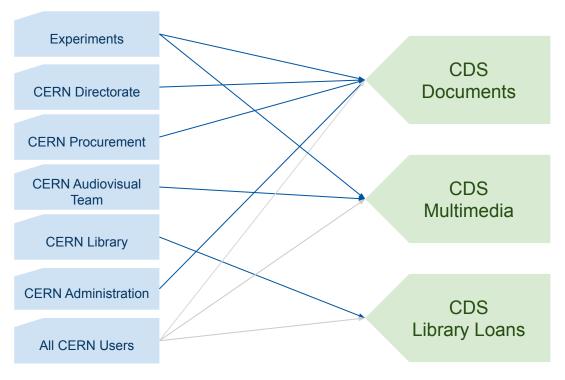








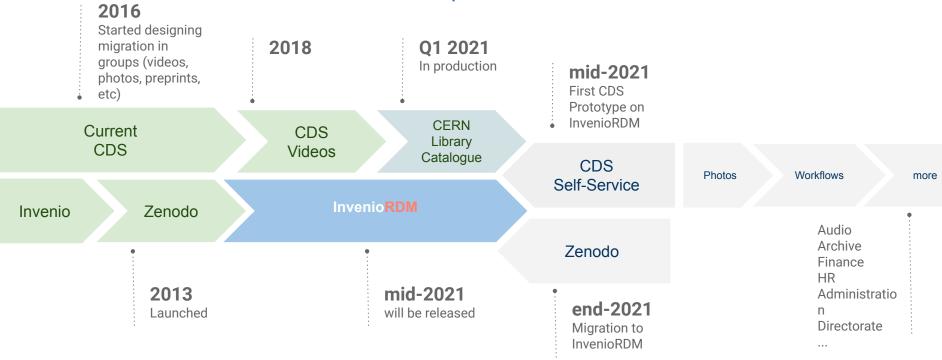
CDSMultiple users from many domains





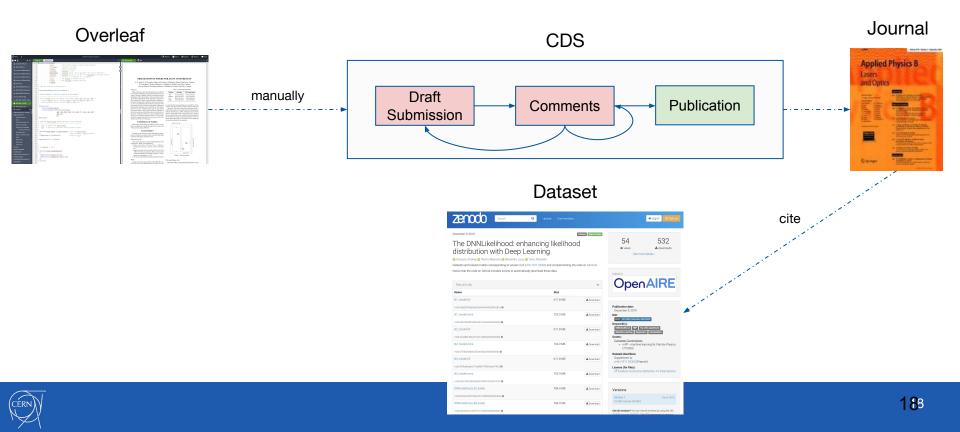
CDS

Development Plan



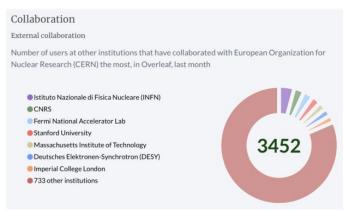


Curation and Workflows

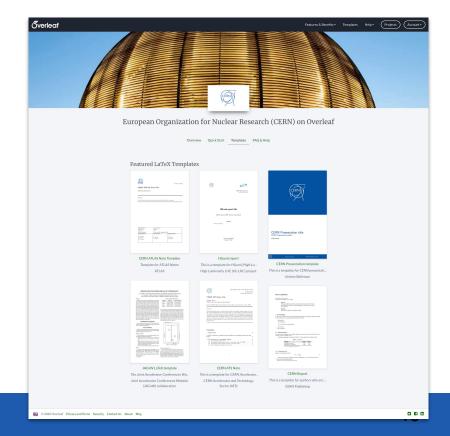


~5800 users ~1100 daily

Overleaf











jose.benito.gonzalez@cern.ch

