Open Research Data – the FAIRest Data is the Future of Science 20 April 2017 Tallinn University of Technology

Publishing Research Data in Repositories: New Output New Knowledge and New Occupations
DiVA consortia, Sweden

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DiVA-portal: http://diva-portal.org
Outline

• Introduction to DiVA (Academic Archive Online) 44 members in a consortia managed by Uppsala University library.

• The Swedish and European guidelines for research data.

• Datasets in DiVA
About DiVA

• Started in 2000
  – Developed at Uppsala University Library
  – Initial purpose was to publish doctoral theses in full text

• A completely new version in 2008
  – Combined system for full texts and bibliographic references (evaluation/bibliometrics)
  – Registering all kind of publications produced by researchers, teachers and students

• Built mainly on open source software
44 Universities, Research Institutes and Museums

Blekinge Institute of Technology
Dalarna University
Ersta Sköndal University College
Swedish National Defence College
The Swedish School of Sport and Health Sciences
The Swedish Agency for Marine and Water Management
Högskolan i Borås
Halmstad University
Stockholm School of Economics
University of Gävle
University of Skövde
Kristianstad University
University West
Jönköping University
Karlstad University
The Royal Institute of Art
Royal College of Music
University College of Arts, Crafts and Design
Royal Institute of Technology
Linköping University
Linnaeus University
Luleå University of Technology
Mälardalen University
Mid Sweden University
The Nordic Africa Institute
Nationalmuseum
Swedish Environmental Protection Agency
Nordic Council of Ministers

Swedish Museum of Natural History
Örebro University
Swedish Polar Research Secretariat
RISE/Research Institutes of Sweden
Red Cross University College
Södertörn University
Sophiahemmet University College
Swedish Meteorological and Hydrological Institute
Stockholm University
Umeå University
Stockholm University of the Arts
Uppsala University
The Swedish National Road and Transport Research Institute

DiVA Members

- Use the same system
- All members contribute to system development
- Joint funding through fees
- Layout and some functionality can be adapted locally

950 000 references - 280 000 in full text

DiVA portal: www.diva-portal.org
Local DiVA-portals
DiVA - Collaboration model

- Head of UUB Library
- DiVA-members
- Repository manager
- Strategic issues
- Working groups
- Management (IT- and Repository manager)
- Support (to members)
- Local Helpdesk
- Uppsala University
- DiVA- Members
How DiVA is used today

Open access
self-archiving

Evaluation,
bibliometrics

Web pages

SwePub
dissertations.se
essay.se

Europeana

BASE

Scirus

Google, Google Scholar etc.

Long-term storage, persistent links
(URN:NBN)

Archive Package
Delivery Service

Print-on-demand

Researcher CV

Coming theses
Statistics

Downloaded full texts (Millions)

Year


0 5 000 000
10 000 000
15 000 000
20 000 000
25 000 000
30 000 000
35 000 000
40 000 000
45 000 000
50 000 000

Nordisk ministerrådet
Köpenhamn
Today’s OA policy from the Swedish Research Council

• Publications
  – All financed projects from 2010-
  – Articles and Conference papers
  – Open Access within 6 to 12 months (hum/sam)
  – From 2015 only OA articles are accepted
  – From 2017 all publications should have a CC-BY-licens

• Research data – data publishing plan
  – All project applications from 2012-
  – Requirements for a ”data management plan” for research data for those projects where data collecting is a major part of the project.
  – Research data should “within reasonable time” be published OA
National Guidelines

• January 2015: Proposal from Swedish Research Council

“Scientific publications and artistic works and research data connected to scientific publications resulting from publicly funded research should be openly available”

The Research Council proposes:
– Sweden should aim to publish everything OA by 2025
– Detailed guidelines should be decided 2020
– Some issues should be investigated more in detail until 2018
National Guidelines

For **research data** the Research Council propose…

- **Objective** = Research data should be published OA as soon as possible

- **Finance pilot studies 2015-2020**
  - **Purpose** = to support planning and building the technical infrastructure at the universities
  - Except supporting infrastructure there will be needs for other expertise – unclear who is responsible of this…
Swedish National Data Service (SND)

- Mandate is provided by the Swedish Research Council and covers research data in the social sciences, humanities and health sciences.
- Aiming to build a national infrastructure (consortia) for research data in Sweden
- Data Access Unit (curating metadata, support, educate) a place where different roles/functions merge.
Research data - What does it mean for university libraries and DiVA?

- Different opinions/policies between universities (DiVA members)
  - Is research data something that libraries should deal with?
- Includes several organizational parts of the university (IT, archive, library, law)
- Researchers need to meet the demands of the funder, asking us about uploading research data to DiVA
- Some journals demand a link to published research data
- Report (2014) about the need for storage of research data at Uppsala University
What to do in this situation of different policy documents, different preparedness locally and not yet ready long term guidelines?

How to harmonise the technical system (DiVA) with the different levels of organisational preparedness?

Our ambition:

• Make DiVA a place where researchers can publish data sets
• Cooperate with those researchers and organisations who need things to happen.
• One step at a time
The specification

• You should specify whether it is primary data (measurement) or aggregated / processed data
• You should be able to link between records in DiVA
• You should be able to link between data sets in DiVA
• New roles need to be selectable ("data producer") in DiVA
• When publishing data set there should be a link to a full text publication
DataCite Metadata Scheme used as a guide for DiVA
Release 2016-08-24

Version 2.18.0 RELEASED
Start: 2016-06-09   Released: 2016-08-24   Release Notes
Personposter till testorganisationer dataset

Manage

Common settings

- Lock reviewed records
- Import field C1 from WoS
- Activate person records
- Activate data sets
- Activate projects
- Activate external cooperation
- External cooperation is mandatory
- Show ISBN creating button multiple times
Geant4 simulation results for the designed UGET-v1 tomographic measurement device.

Jansson, Peter

Uppsala University, Disciplinary Domain of Science and Technology, Physics, Department of Physics and Astronomy, Applied Nuclear Physics.

ORCID ID: 0000-0002-3136-5665

2016 (English)

Data set, Primary data

Abstract [en]
Results from simulations performed with Geant4 for the UGET v1 of a tomographic measurement device, designed in the UGET project.

Place, publisher, year
2016.

Version
1.0

Keyword [en]
Geant4, Tomography, Nuclear fuel, Safeguards, Simulation results

National Category
Subatomic Physics

Research subject
Physics with specialization in Applied Nuclear Physics

Identifiers
URN: urn:nbn:se:uu:diva-31617
OAI: oai:DIVA.org:uu:316175
DIVA: diva2:1077126

Open Access in DiVA
UGEtv1_Geant4_Results.csv.zip(84256 kB)
16 downloads

Description of content

Search in DiVA
By author/editor
Jansson, Peter
By organisation
Applied Nuclear Physics
On the subject
Subatomic Physics

The data set is referenced by

Search outside of DiVA
Versions and Relations

Links within the repository.
Connecting digital objects
If choosing a new or previous version the metadata from that version can be used also for this registration.

Upload via URL
Maximum 16 GB

Decide when to publish the file
New roles and relations

**Collaborator**

- **Contributor**: person responsible for collecting, managing, distributing, or otherwise contributing to the development of the resource.
- **Data Collector**: Person responsible for finding, gathering/collecting data under the guidelines of the author(s). May also use when crediting survey conductors, interviewers, event or condition observers, person responsible for monitoring key instrument data.
- **Data Curator**: Person tasked with reviewing, enhancing, cleaning, or standardizing metadata and the associated data submitted for storage, use, and maintenance within a data center or repository.
- **Data Manager**: Person responsible for maintaining the finished resource.
Summary

• New Output - Datasets and relations/links to other versions and other publications. The repository will represent new parts of the researching process.

• New Knowledge – Repositories become a node also for research data. The repository used for text mining?

• New Occupations – New roles and collaborations are needed to insure quality for data sets. In the case of DiVA we need to build the repository for different realities.
Thank you!