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Accessibility: the A in SND.

10 years with the FAIR principles at SND.

David Rayner, Training Coordinator, SND.

Swedish National Data service (SND)

A research infrastructure helping Swedish research organizations with **accessibility, preservation, and reuse of research data**.

Vetenskapsrådet Swedish Research Council
University of Gothenburg
Chalmers University of Technology
Karolinska Institutet
KTH Vetenskap och Konst
Lund University
SLU
Stockholm University
Umeå Universitet
Uppsala Universitet



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What does SND do?

SND provides services for sharing (“publishing”) research data.

SND provides services for finding research data to reuse.

SND provides support for research data management.



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It’s 2016…



Eurovision Song Contest 2016 in Stockholm

Photo: Albin Olsson
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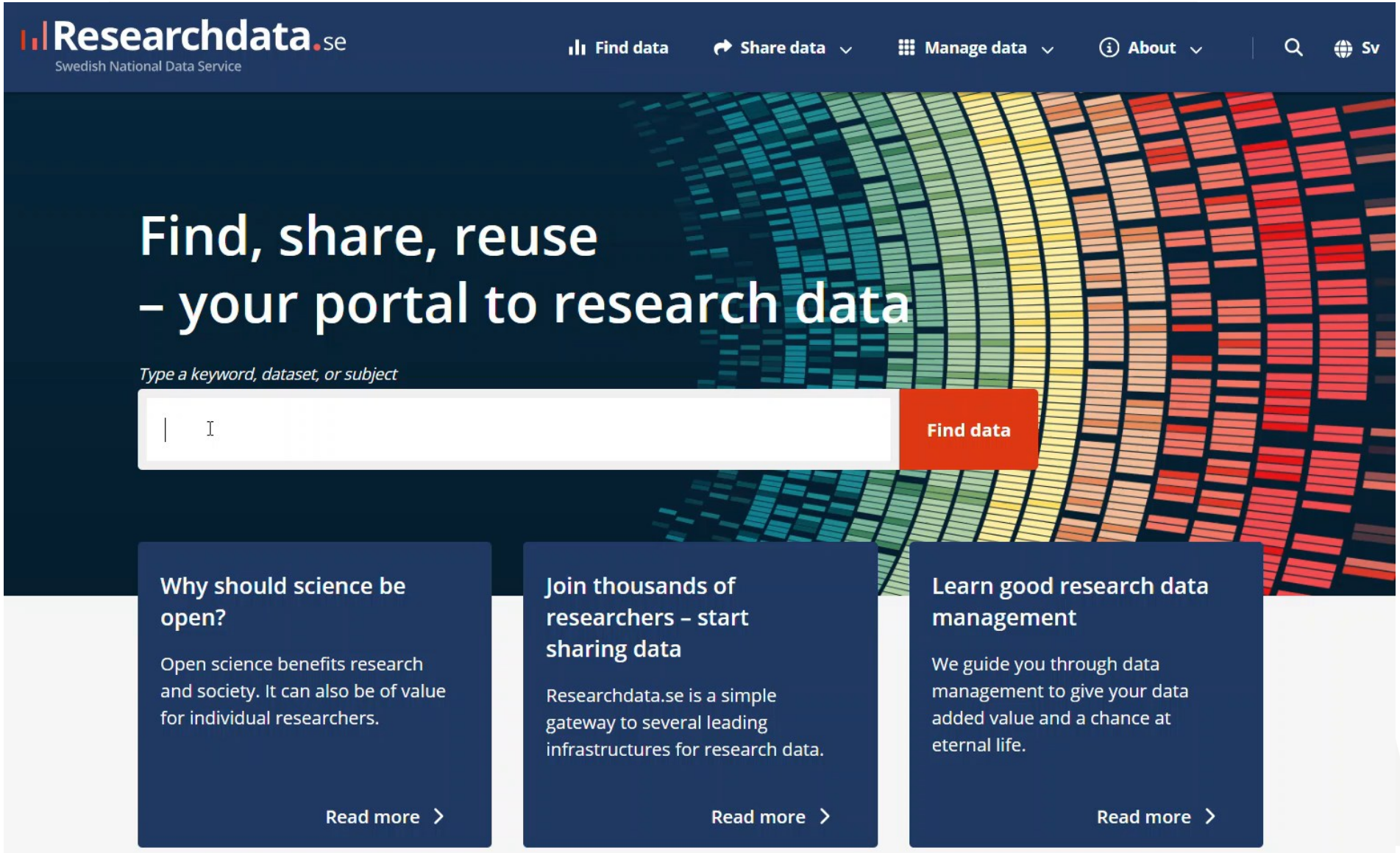
“Last night in Sweden”



Sweden to Trump: What happened last night? - BBC News



Swedish National Data Service | Swedish National Data Service



What is Researchdata.se?

F4

(meta)data are registered or indexed in a searchable resource

FAIR Vocabulary

Accessible

Once the user finds the required data, she/he/they need to know how they can be accessed, possibly including authentication and authorisation.

A1

(meta)data are retrievable by their identifier using a standardized communications protocol

FAIR Vocabulary

A1.1

the protocol is open, free, and universally implementable

FAIR Vocabulary

the protocol allows for an authentication and

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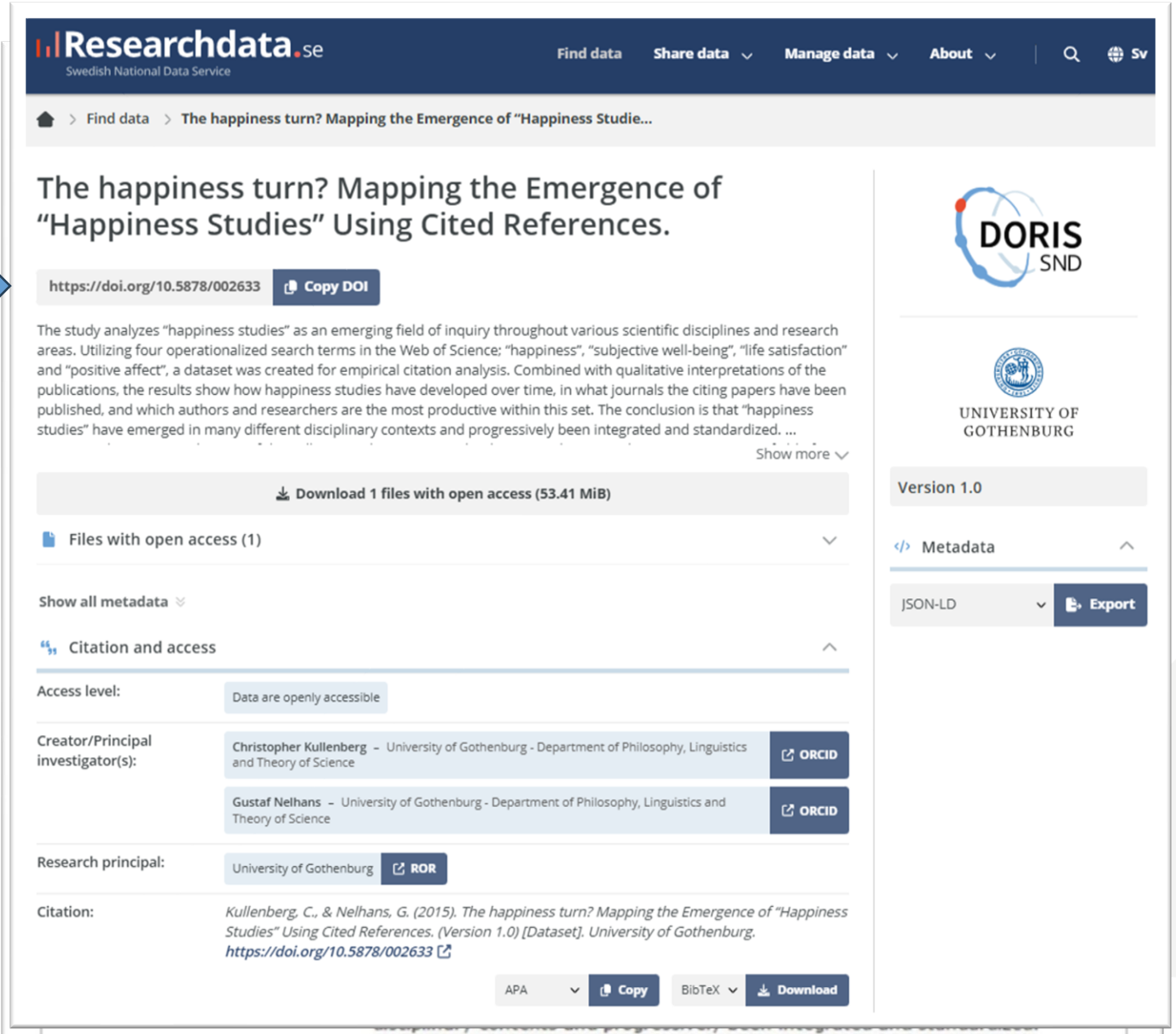
FAIR | GO FAIR Foundation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The happiness turn? Mapping the Emergence of "Happiness Studie...
The happiness turn? Mapping the Emergence of "Happiness Studies" Using Cited References.
https://doi.org/10.5878/002633
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The study analyzes "happiness studies" as an emerging field of inquiry throughout various scientific disciplines and research areas. Utilizing four operationalized search terms in the Web of Science: "happiness", "subjective well-being", "life satisfaction" and "positive affect", a dataset was created for empirical citation analysis. Combined with qualitative interpretations of the publications, the results show how happiness studies have developed over time, in what journals the citing papers have been published, and which authors and researchers are the most productive within this set. The conclusion is that "happiness studies" have emerged in many different disciplinary contexts and progressively been integrated and standardized. ...
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Creator/Principal investigator(s):
Christopher Kullenberg – University of Gothenburg - Department of Philosophy, Linguistics and Theory of Science
ORCID
Gustaf Nelhans – University of Gothenburg - Department of Philosophy, Linguistics and Theory of Science
ORCID
Research principal:
University of Gothenburg
ROR
Citation:
Kullenberg, C., & Nelhans, G. (2015). The happiness turn? Mapping the Emergence of "Happiness Studies" Using Cited References. (Version 1.0) [Dataset]. University of Gothenburg.
https://doi.org/10.5878/002633
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UNIVERSITY OF GOTHENBURG
Version 1.0
Metadata
JSON-LD
Export
Moreover, beginning at the turn of the millennium, happiness studies have even begun to shape an autonomous field of inquiry, in which happiness becomes a key research problem for itself, and we may even speak of a "happiness turn".

Why FAIR?

“The outcomes from good data management and stewardship, therefore, are high quality digital publications that facilitate and simplify this ongoing process of discovery, evaluation, and reuse in downstream studies.”

The FAIR Guiding Principles for scientific data management and stewardship | Scientific Data

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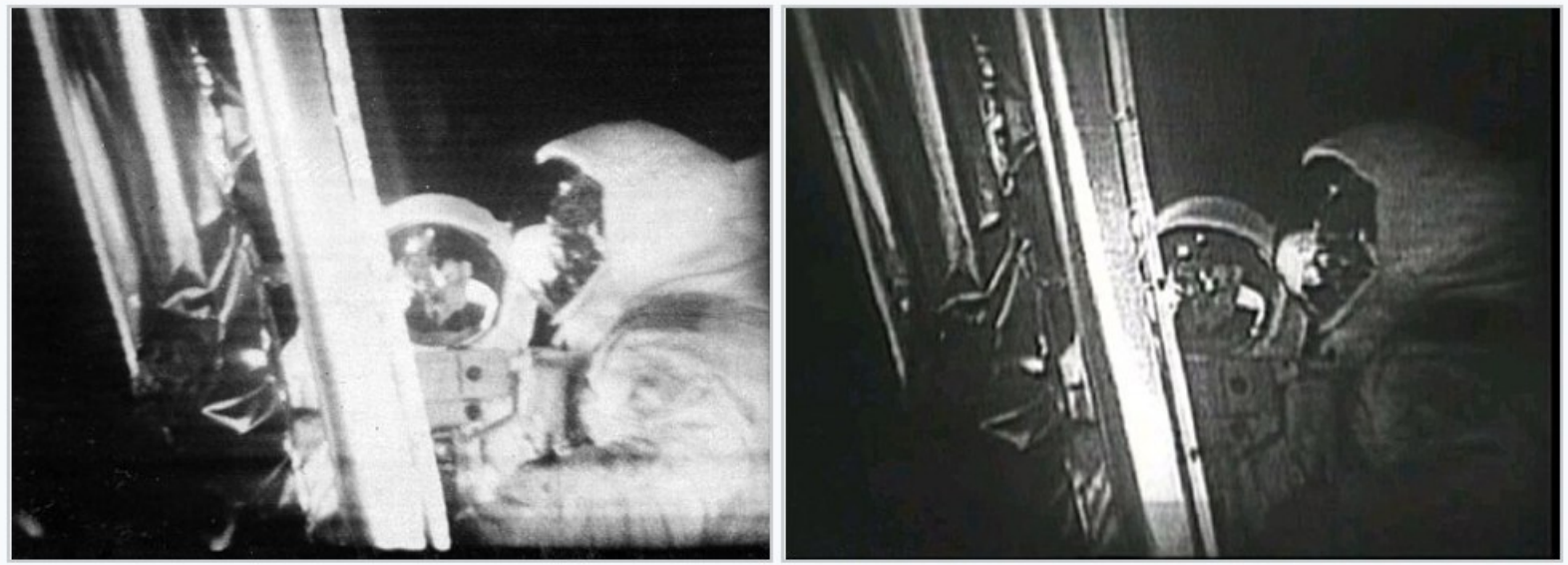

A photograph of the original SSTV signal of Aldrin and Armstrong at the foot of *Eagle* (left)—its conversion for broadcast (right) significantly degraded its image quality

SND Policy from 2020:

! SND no longer supports “metadata-only” dataset descriptions!

… unless the dataset already has a persistent identifier (e.g. DOI) from another repository.



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https://www.flickr.com/photos/80497449@N04/10011622594

SND Policy for Persistent Identifiers on Datasets
https://doi.org/10.5281/zenodo.6352451

Question: What is a “metadata-only” dataset description?

- A structured description of the datatset:
  - Title
  - Authors
  - Contact details
  - Description etc. but…
- The data files are not provided!

So what about “as open as possible, as restricted as necessary”?



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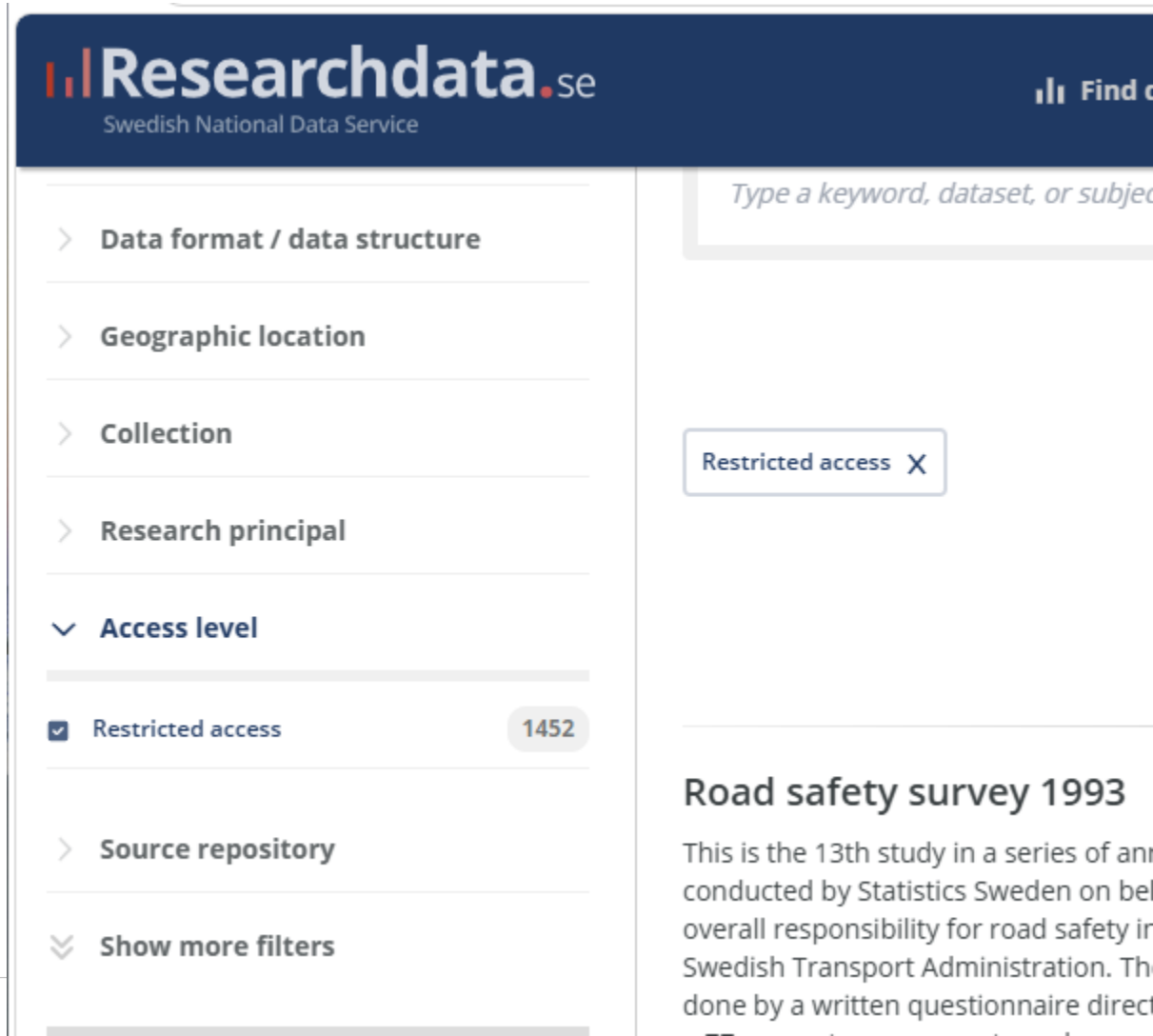
Publish with Restricted access!

- Personal data
- Secrecy or confidentiality
- Copyright
- Collaborative research
- Embargo



RNA sequencing data from patients with heart disease and controls

https://doi.org/10.5878/e48r-gn02 Copy DOI

RNA sequencing analysis of atrial cardiac tissue from patients undergoing coronary artery bypass grafting (CABG) or aortic valve replacement (AVR) was performed and compared with atrial cardiac tissue from organ donors and purchased human atrial cardiac RNA.

RNA sequencing analysis was performed at the Genomics Core Facility at University of Gothenburg, Sweden. All samples (ten controls, ten CABG patients and ten AVR patients) were quality checked by the RNA integrity number (RIN) using Tapestation 2200 RNA screenTape (Agilent Technologies, Santa Clara, CA) and RNA concentration was measured by NanoDrop (Thermo Fisher, Waltham, MA). RIN values ranged between 6.6 and 9.0 for all samples. TruSeq Total Stranded RNA kit with RiboZero (Gold) Sample Preparation Guide (15,031,048 Rev. E) was used for RNA sample preparation (Illumina, San Diego, CA). A total of 10 µl (~1 µg) RNA from each sample was used for library preparation. Directly after depletion, a cleanup step was performed using 110 ul of the RNAClean XP beads (Beckman Coulter, USA) for each sample. The fragmentation step was performed for 8 min. 12 PCR cycles were run for all samples. Libraries were quantified and normalized with Qubit DNA HS Assay kit (Life Technologies, Carlsbad, CA) and fragment size determined by Tapestation 2200 (Agilent Technologies, Santa Clara, CA). The libraries were pooled together by using the Illumina protocol for pooling and sequenced with NovaSeq 6000 S1 (Illumina, San Diego, CA) for the read length of 2 × 100 bp.

+ Add request for data

DORIS SND

University of Gothenburg

Version 1

Contact

Victoria Rotter Sopasakis
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Lillemor Mattsson Hultén
lillemor.mattsson@wlab.gu.se

Metadata

JSON-LD Export

The future of FAIR at SND.

AI has always been part of the FAIR principles!

"Distinct from peer initiatives that focus on the human scholar, the FAIR Principles put specific emphasis on enhancing the ability of machines to automatically find and use the data, in addition to supporting its reuse by individuals."

The FAIR Guiding Principles for scientific data management and stewardship | Scientific Data

Researchdata.se: Metadata is FAIR, data is FAIR

> *Can an autonomous agent starting from the Researchdata.se landing page discover a machine-readable tabular representation and retrieve its contents using standard web protocols?*



FAIR workflow

Find dataset	✓	
Read metadata	✓	
Understand metadata	✓	
Discover files	✓	
Identify XLSX	✓	
Obtain contentUrl	✓	
Request contentUrl	✓	
Follow redirect	✓	
Reach storage host	X	← ChatGPT restriction
Read XLSX	–	
Analyse	–	
Visualise	–	

SND's Plans for EOSC

The European Open Science Cloud (EOSC) is a large-scale research infrastructure initiative created to **promote access to research data on a European level**, as well as globally.

- Dataset visibility in EOSC Resource Hub (priority)
- Direct access to datafiles on EOSC EU Node compute services (idea)
- Federated search (idea)

European Commission

European Open Science Cloud

Home | About | Services

the happiness

All resources | Publications

Showing 1 to 20 **of 31 resources**

Relevance

DATA | DATASET | OPEN ACCESS

Year: 2015 | Views: 0 | Downloads: 0 | Citations: 0

The happiness turn? Mapping the Emergence of "Happiness Studies" Using Cited References.

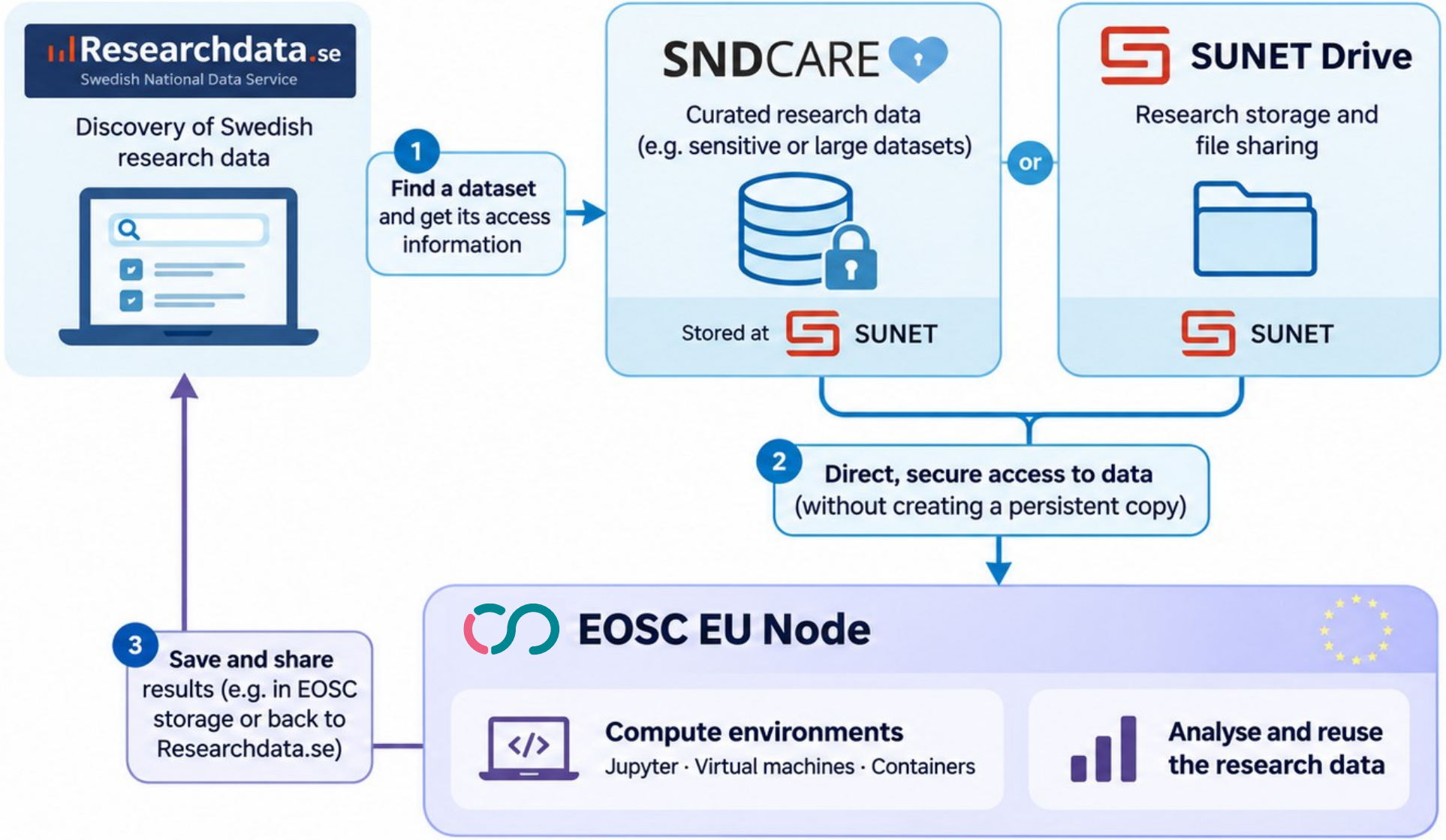
The study analyzes "happiness studies" as an emerging field of inquiry throughout various scientific disciplines and research areas. Utilizing four operationalized search terms in the Web of Science; "happiness", "subjective...

Authors Kullenberg, Christopher | Kullenberg, Christopher | Nelhans, Gustaf | Nelhans, Gustaf

Publisher Swedish National Data Service | CESSDA Data Catalogue

Identifier 10.5878/002633 (DOI) | 10.5878/002632 (DOI)

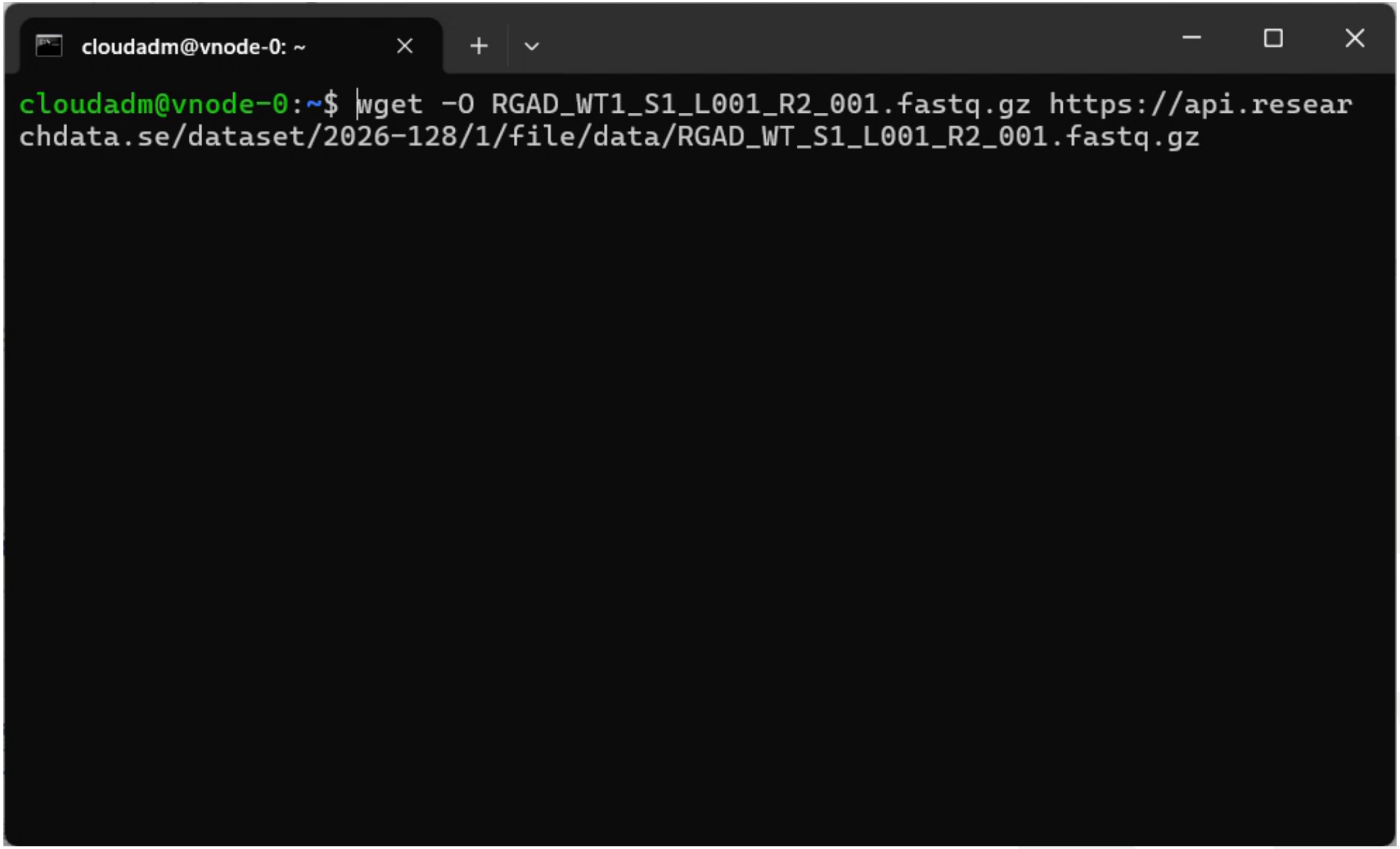
Keywords happiness studies • Idé- och lärdomshistoria • vetenskapsteori • FOS: Philosophy, ethics and religion • Humanities and the Arts • citeringsanalys • Övrig annan...

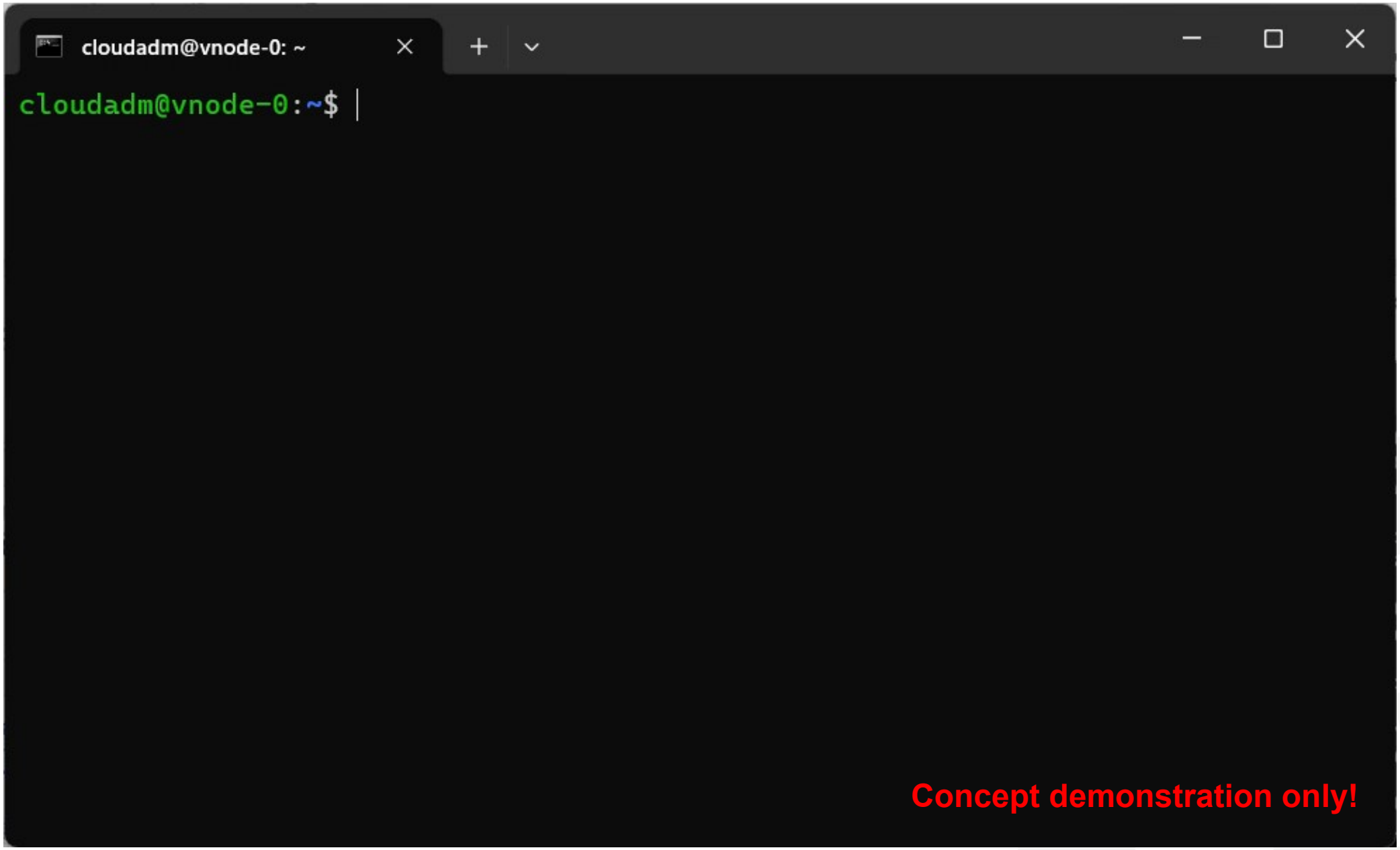


Key benefits

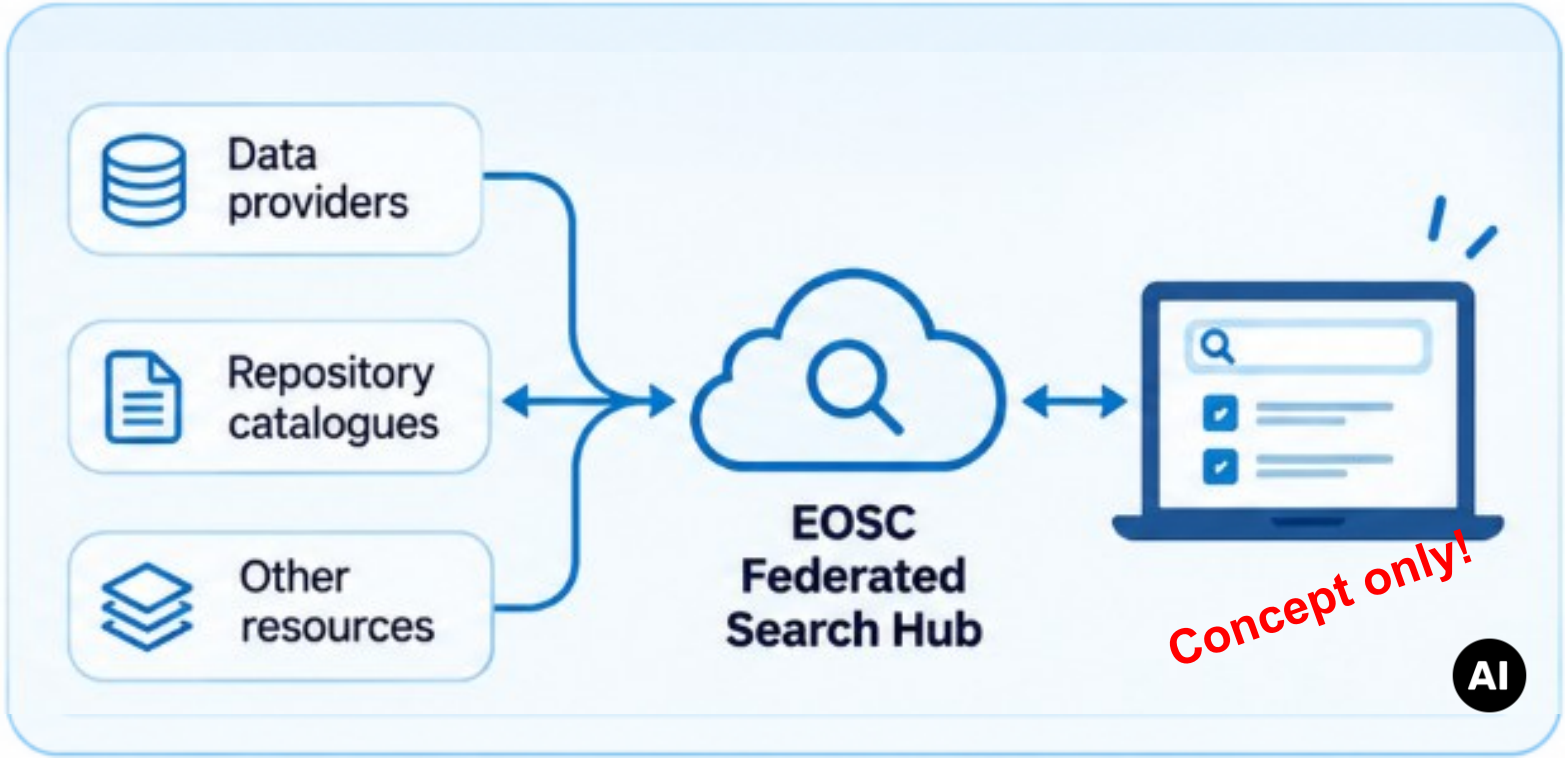
- Use data directly in EOSC compute (enhanced efficiency)
- No need to make extra copies of datasets
- Builds on Swedish infrastructure (SND CARE and SUNET)
- FAIR and reusable data in a European research ecosystem

AI GENERATED


cloudadm@vnode-0: ~
cloudadm@vnode-0:~$ wget -O RGAD_WT1_S1_L001_R2_001.fastq.gz https://api.research
chdata.se/dataset/2026-128/1/file/data/RGAD_WT_S1_L001_R2_001.fastq.gz


cloudadm@vnode-0: ~
cloudadm@vnode-0:~$
Concept demonstration only!

SND could support an EOSC Federated Search



Home > Resource hub

Advanced Search

Search in data

All resources | Publications | **Data** | Software | Other Products | Services | Tools | Training | Data Sources | More (1)

Access right

Scientific domain

Document type

Publication date

Funder

Showing 1 to 20 **of 64,965,299 resources**

Relevance

DATA DATASET

Year: 2023 | Views: 0 | Downloads: 0 | Citations: 0

LHD 102RVUV #23608.1

Extreme ultraviolet (EUV) and vacuum ultraviolet (VUV) spectroscopy diagnostics are applied to measure wavelength spectra including line emissions released from Ne ions ranging from low to high charge states simultaneously in a single discharge of the Ne-seeded divertor he...

Authors GOTO, Motoshi

Identifier 10.57451/lhd.102rvuv.23608.1 (DOI)

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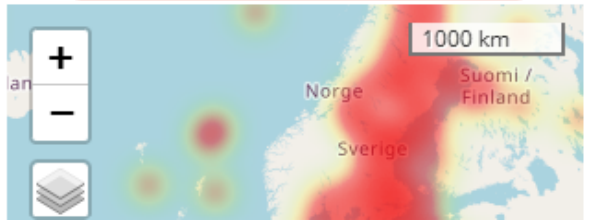

Type a keyword, dataset, or subject

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Road safety survey 2014

This is the 33:rd study in a series of annual surveys on road safety conducted since 1981. The study aims to identify and analyse traffic safety statistics. Purpose: The survey aims to identify and analyse traffic safety statistics.

Social sciences

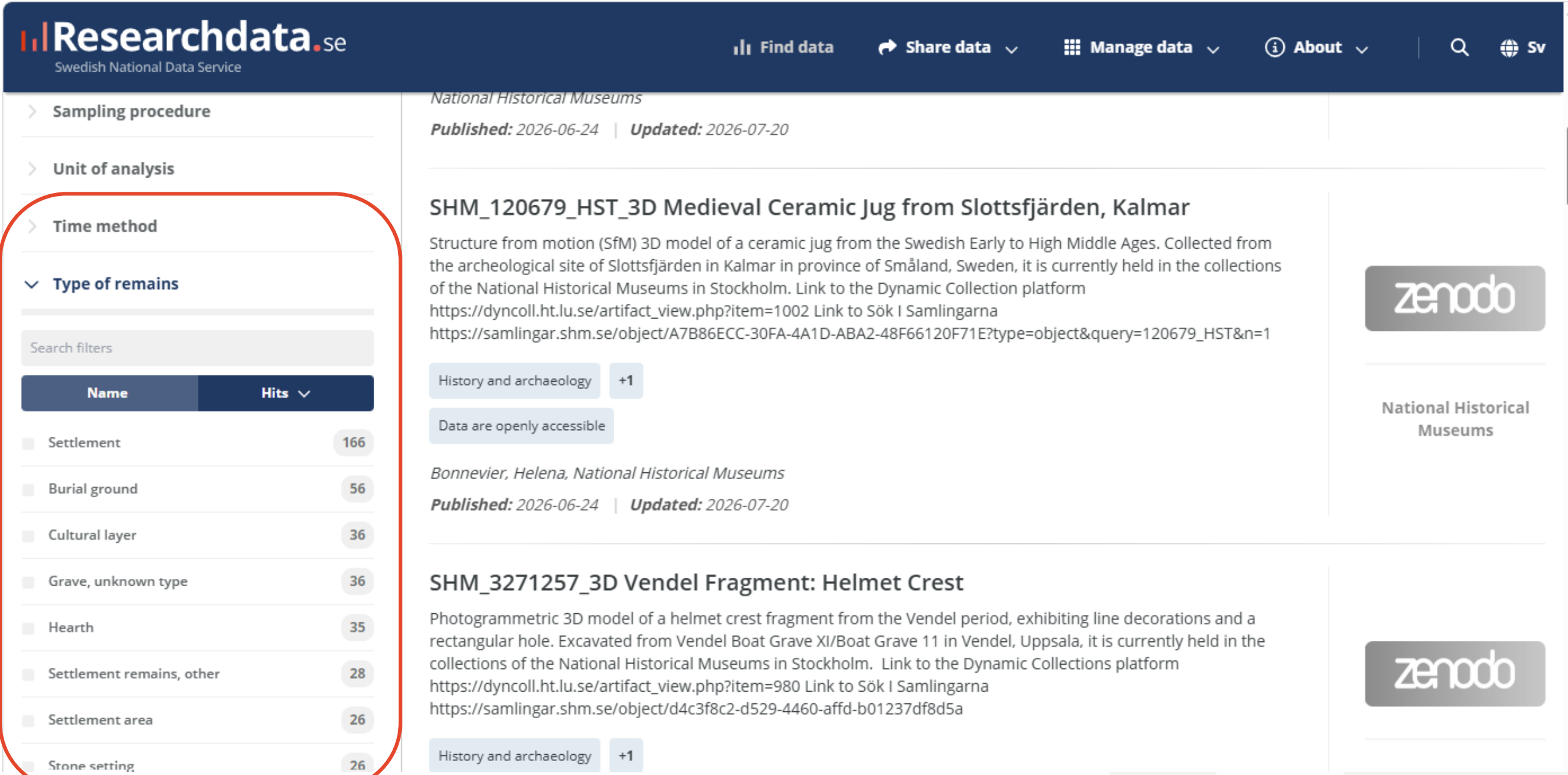
Data are openly accessible

Swedish Transport Administration

Version 2 published: *2026-11-13*

DORIS SND

Swedish Transport Administration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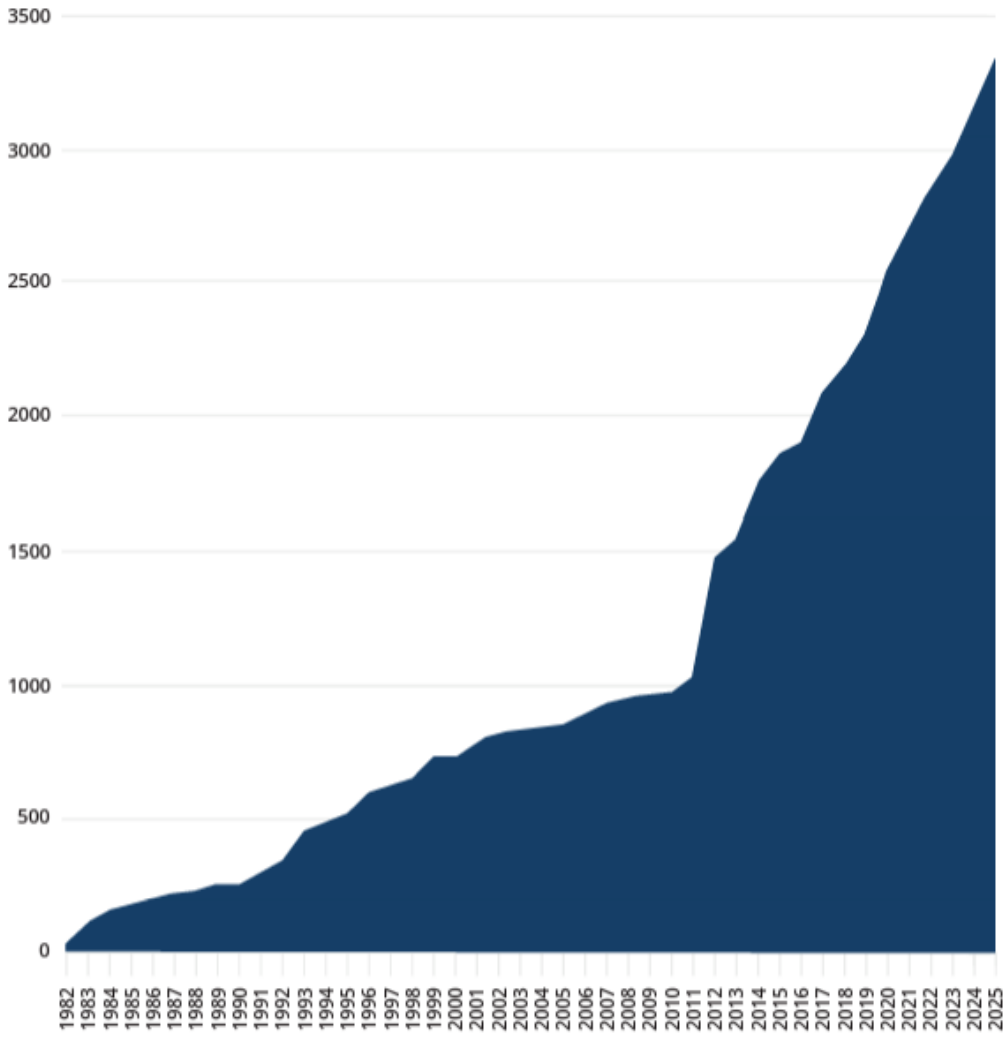
Burial ground 56
Cultural layer 36
Grave, unknown type 36
Hearth 35
Settlement remains, other 28
Settlement area 26
Stone setting 26
National Historical Museums
Published: 2026-06-24 | Updated: 2026-07-20
SHM_120679_HST_3D Medieval Ceramic Jug from Slottsfjärden, Kalmar
Structure from motion (SfM) 3D model of a ceramic jug from the Swedish Early to High Middle Ages. Collected from the archeological site of Slottsfjärden in Kalmar in province of Småland, Sweden, it is currently held in the collections of the National Historical Museums in Stockholm. Link to the Dynamic Collection platform https://dyncoll.ht.lu.se/artifact_view.php?item=1002 Link to Sök I Samlingarna https://samlingar.shm.se/object/A7B86ECC-30FA-4A1D-ABA2-48F66120F71E?type=object&query=120679_HST&n=1
History and archaeology
+1
Data are openly accessible
zenodo
National Historical Museums
Bonnevier, Helena, National Historical Museums
Published: 2026-06-24 | Updated: 2026-07-20
SHM_3271257_3D Vendel Fragment: Helmet Crest
Photogrammetric 3D model of a helmet crest fragment from the Vendel period, exhibiting line decorations and a rectangular hole. Excavated from Vendel Boat Grave XI/Boat Grave 11 in Vendel, Uppsala, it is currently held in the collections of the National Historical Museums in Stockholm. Link to the Dynamic Collections platform https://dyncoll.ht.lu.se/artifact_view.php?item=980 Link to Sök I Samlingarna https://samlingar.shm.se/object/d4c3f8c2-d529-4460-affd-b01237df8d5a
History and archaeology
+1
zenodo

In Summary

- “The goal is for scholarly digital objects of all kinds to become ‘first class citizens’ in the scientific publication ecosystem”

[The FAIR Guiding Principles for scientific data management and stewardship | Scientific Data]

Number of DORIS entries in Researchdata.se 1982–2025



https://snd.se/sites/default/files/page/Annual_Report_2025.pdf

Thank you!