WHAT is DataverseNO?

Basic features and facts

DataverseNO ...
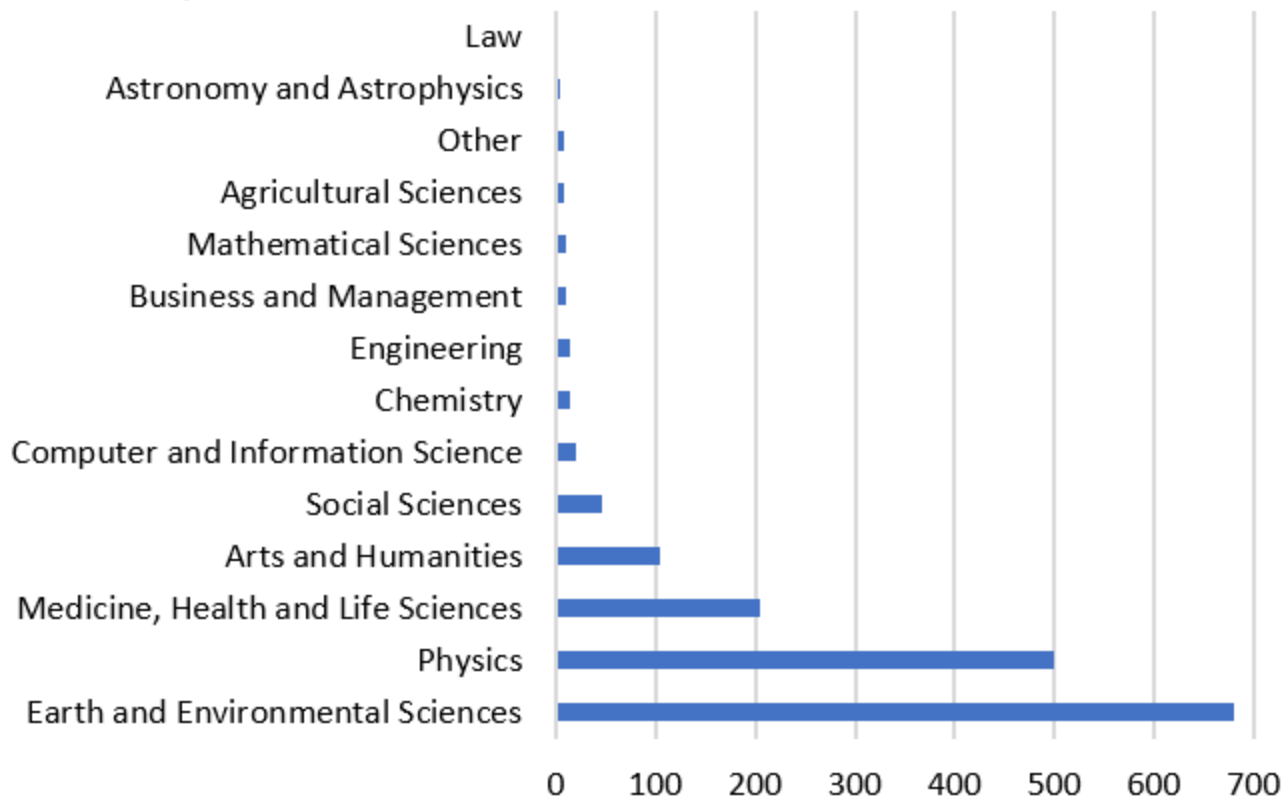
❏ is a **national**, **generic** repository for **open** research data

❏ is **curated**, and aligned with the **FAIR principles** (cf. Conzett 2020), and **CoreTrustSeal**-certified since 2020;

❏ runs on the **Dataverse** software;

❏ is operated at **UiT The Arctic University of Norway**, and thereby

❏ the **northernmost** Dataverse repository in the world.

… a **national** repository

- ❏ Has an **institutional focus** (cf. Schlatter & Ji, 2021)
- ❏ Currently **9 partner institutions** Universities and university colleges
- ❏ Open for (individual) researchers from **other Norwegian research organizations**
- ❏ Contains currently data from researchers affiliated with **40 Norwegian organizations**

DataverseNO institutions

… a **generic** repository

(Bar chart titled by vertical axis categories from top to bottom:)

- Law
- Astronomy and Astrophysics
- Other
- Agricultural Sciences
- Mathematical Sciences
- Business and Management
- Engineering
- Chemistry
- Computer and Information Science
- Social Sciences
- Arts and Humanities
- Medicine, Health and Life Sciences
- Physics
- Earth and Environmental Sciences

(Horizontal axis: 0, 100, 200, 300, 400, 500, 600, 700)

❏ Data from **all domains** of science

❏ High numbers within Physics and Earth Sciences are due to large time series.

❏ Apart from time series: Mostly **background data** for publications.

Numbers as of May 15, 2021
Note: Many datasets are classified as belonging to more than one domain.

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WHY DataverseNO?

WHY DataverseNO? --- Background and rationale

DataverseNO

- Other universities became interested in UiT Open Research Data
- UiT decided to expand service to become a national repository
- **DataverseNO** launched in 2017 (inspired by DataverseNL) with UiT and the University of Agder (UiA) as the first partners

The Tromsø Repository of Language and Linguistics (TROLLing)

- Linguists at UiT needed a repository to share their data worldwide
- Result: **TROLLing** launched in 2014
- Based on Dataverse
- Part of CLARINO (Norw. node of CLARIN)

2015

2014

2017

UiT Open Research Data

- UiT needed an institutional repository for research data
- **UiT Open Research Data** established in 2015 based on experiences and solutions used in TROLLing

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DataverseNO is one among many repositories

(Based on the OpenAIRE Guides for Researchers, UiT gives the following advice to its researchers on): **How to select a data repository**:

1. Funder or journal may **require** to use a **specific** repository.
2. Repository already established for your research **domain** (you may use the re3data registry to find a suitable repository).
3. UiT's **institutional** collection within **DataverseNO**.
4. For data containing **person-identifying information**, we advise you to use **NSD**'s repository.

HOW does DataverseNO work?

… basically as outlined in the DataverseNO Organization Chart:

Organization of DataverseNO

ORGANIZATIONAL DOCUMENTS

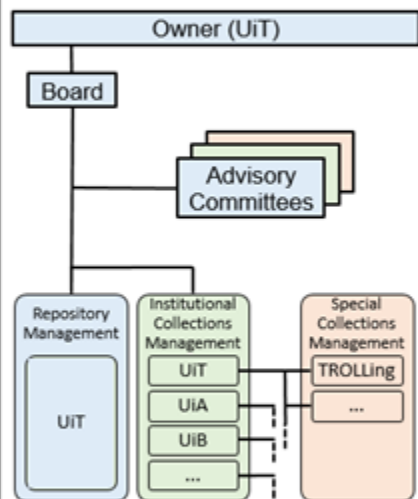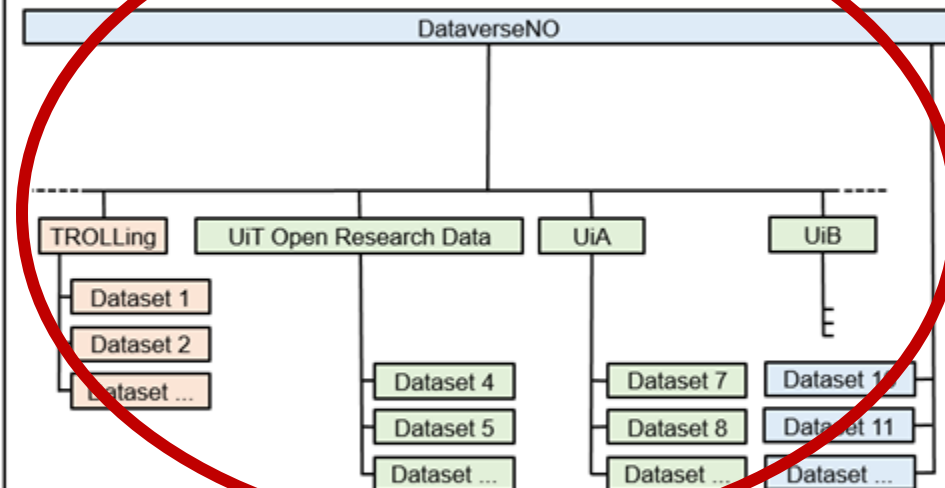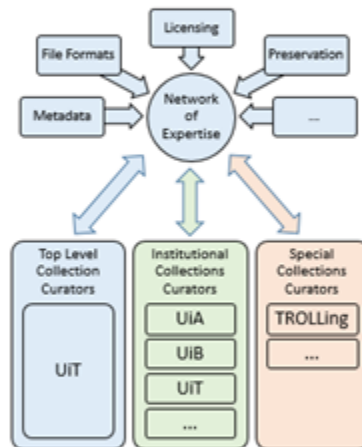| DataverseNO Policy Framework | DataverseNO Steering Documents | DataverseNO Administrator Guidelines | DataverseNO Curator Guidelines | DataverseNO Deposit Guidelines | ... |

GOVERNANCE

Owner (UiT)

Board

Advisory Committees

Repository Management

UiT

Institutional Collections Management
- UiT
- UiA
- UiB
- ...

Special Collections Management
- TROLLing
- ...

REPOSITORY STRUCTURE

DataverseNO

TROLLing
- Dataset 1
- Dataset 2
- Dataset ...

UiT Open Research Data
- Dataset 4
- Dataset 5
- Dataset ...

UiA
- Dataset 7
- Dataset 8
- Dataset ...

UiB
- Dataset 10
- Dataset 11
- Dataset ...

DATA CURATION

File Formats, Licensing, Preservation, Metadata, ... → Network of Expertise

Top Level Collection Curators
- UiT

Institutional Collections Curators
- UiA
- UiB
- UiT
- ...

Special Collections Curators
- TROLLing
- ...

DESIGNATED COMMUNITY

Researchers within User Groups of Special Collections
- Linguists
- ...

Researchers from Partner Institutions in Norway
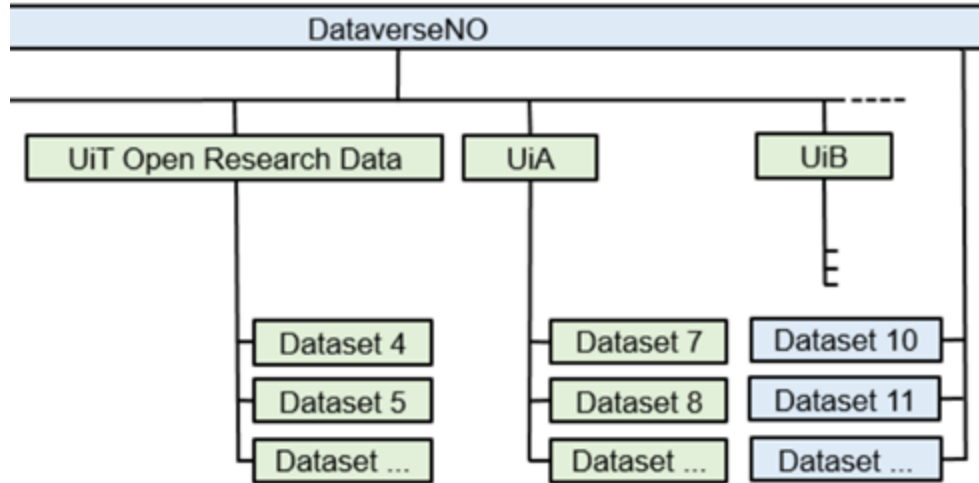- HVL
- INN
- NMBU
- NORD
- NTNU
- UiA
- UiB
- UiS
- UiT
- ...
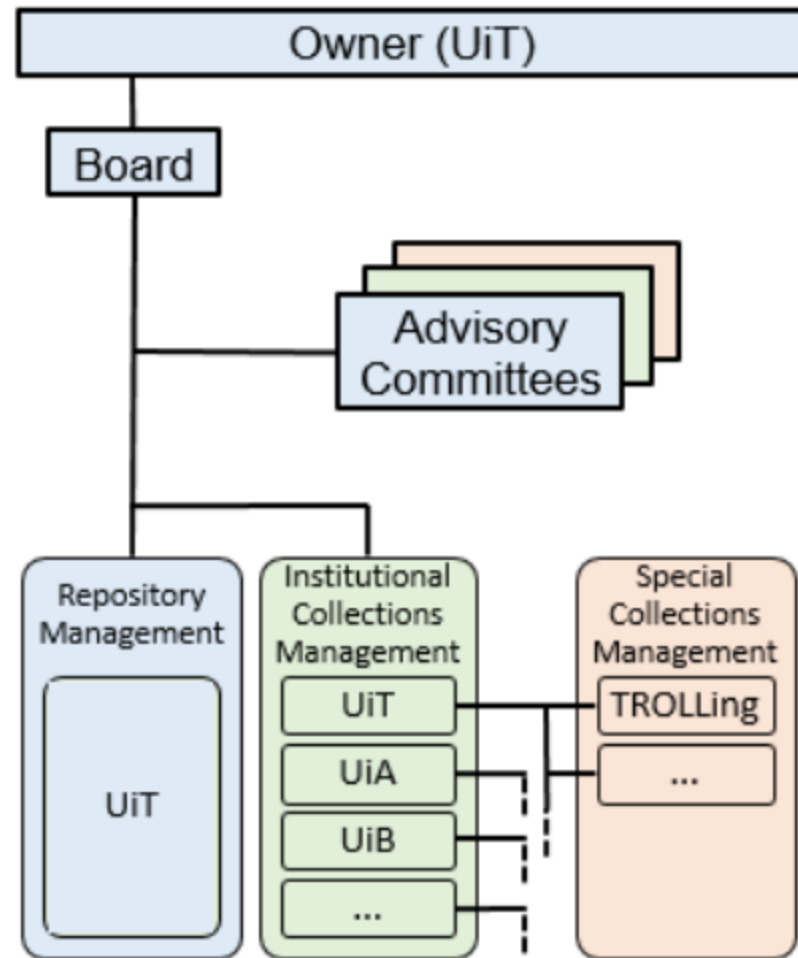
Researchers from Non-Partner Institutions in Norway

HOW? --- Repository structure

❏ Each partner institution has its own **collection** (sub-dataverse)

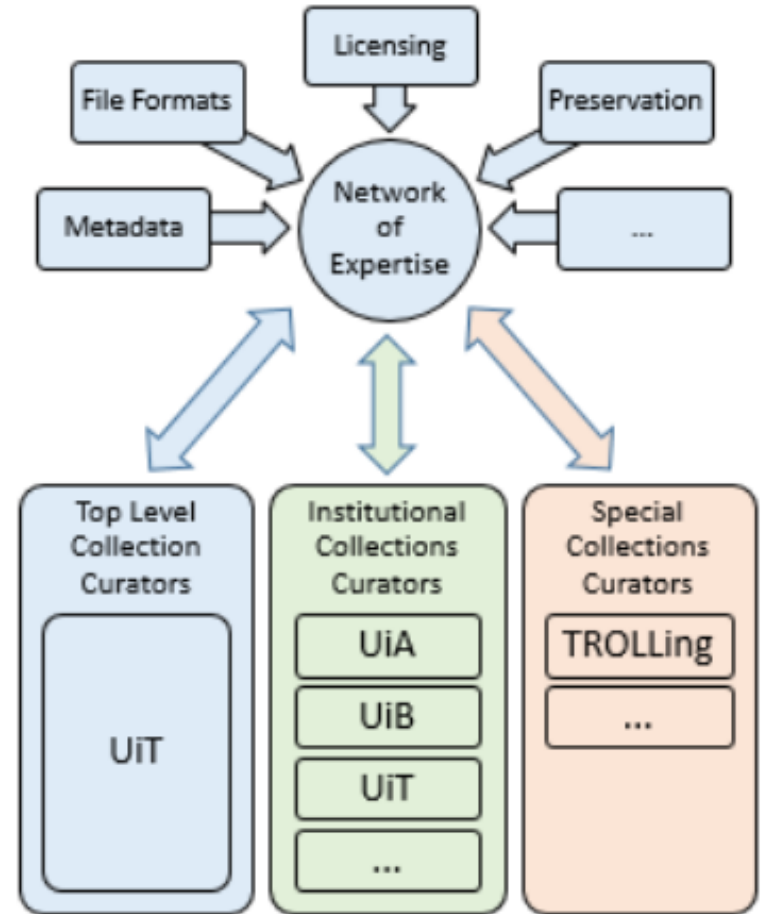❏ ... and researchers from non-partner institutions publish their data in the top-collection

HOW？--- Governance

❑ UiT is responsible for management and development of **technical and functional core** of the repository and training and support for collections managers.
❑ Each partner is responsible for management of **institutional collection**.
❑ The **Board** of DataverseNO is the highest management body of the repository.
❑ An **advisory committee** discusses RDM and collaboration issues and gives advice to the board.

Owner (UiT)

Board

Advisory Committees

Repository Management
UiT

Institutional Collections Management
UiT
UiA
UiB
...

Special Collections Management
TROLLing
...

HOW? --- Data curation

❏ In order to make published data as FAIR as possible, each dataset is **curated** by research support staff at the partner institutions before publication.
❏ Only curators can publish datasets.
❏ Curators are usually subject librarians (with a Phd or two...).
❏ Curators share knowledge and experience in **curator network** across partner institutions.

HOW? --- Organizational documents

The organization of DataverseNO is based on a set of **well-defined documents** describing the **responsibilities** of partners and the FAIR-aligned **stewardship of data** handled in the repository:

DataverseNO Policy Framework:
- ❏ Access and Use Policy
- ❏ Accession Policy
- ❏ Deposit Agreement
- ❏ Preservation Policy

DataverseNO Guidelines:
- ❏ DataverseNO Administrator Guidelines for Repository
- ❏ DataverseNO Administrator Guidelines for Collections
- ❏ DataverseNO Curator Guidelines
- ❏ DataverseNO Deposit Guidelines

DataverseNO Steering documents:
- ❏ Establishment of a Board for DataverseNO
- ❏ Mandate Board for DataverseNO
- ❏ Steering Document for DataverseNO

DataverseNO Partner Agreement (including data processor agreement):
- ❏ Partners commit to manage their collections **according to DataverseNO policies and guidelines**

To demonstrate its **commitment to FAIR data stewardship** and **trustworthy and sustainable repository management**, DataverseNO has documented its approaches and workflows to obtain **CoreTrustSeal certification**.

CoreTrustSeal Certification

CoreTrustSeal CERTIFICATION

CORE TRUST SEAL ✓

- ✓ in March, DataverseNO earned the **CoreTrustSeal**
- ✓ **long process**: about 2 years from start to certification
- ✓ **challenging issues** due to multi-institutional organization of DataverseNO
- ✓ one **common** set of **policies** and guidelines applied to all collections and datasets
- ✓ all datasets are **curated**

2018	2019	2019	2020
28 JUNE FIRST VERSION SUBMITTED	**6 MARCH** SECOND VERSION SUBMITTED	**12 OCTOBER** THIRD VERSION SUBMITTED	**26 MARCH** CERTIFICATION RECEIVED

Strengths and weaknesses/challenges

Strengths:

- ❏ Based on **approved technical solutions**
- ❏ Provides **strong user support** co-located researchers embedded at partner institutions
- ❏ Part of **strong international collaborative networks**, e.g. Dataverse community (Harvard, DANS, ...), FAIRsFAIR, ...
- ❏ Curate all datasets

Challenges:

- ❏ Many subjects/domains to be covered
- ❏ Challenging for **small organizations** to provide extensive user curation support

But: What are the alternatives in cases where no other, more appropriate (e.g. domain-specific) repositories are available?

Questions (if time)…..?

dataverse.no

@DataverseNO

?

info.dataverse.no