



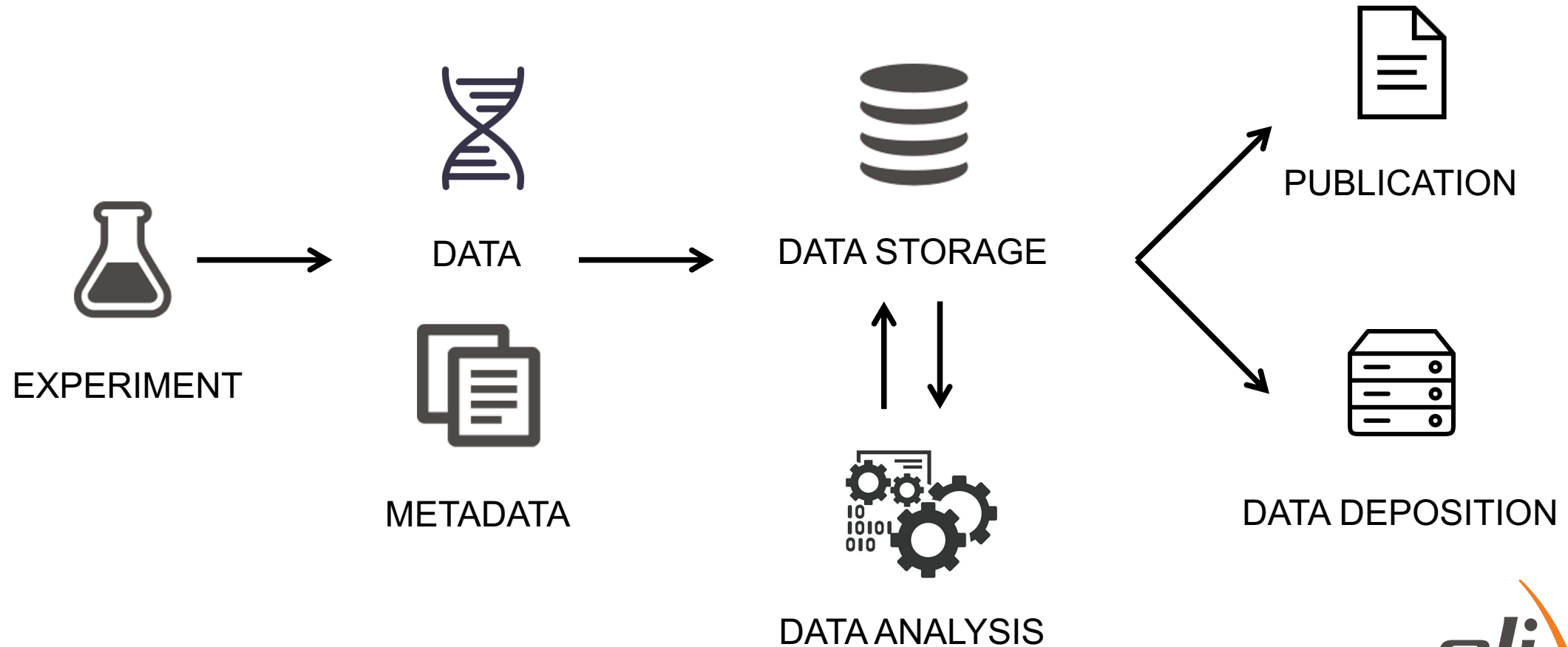
Local recommendations & storage infrastructures



UiT

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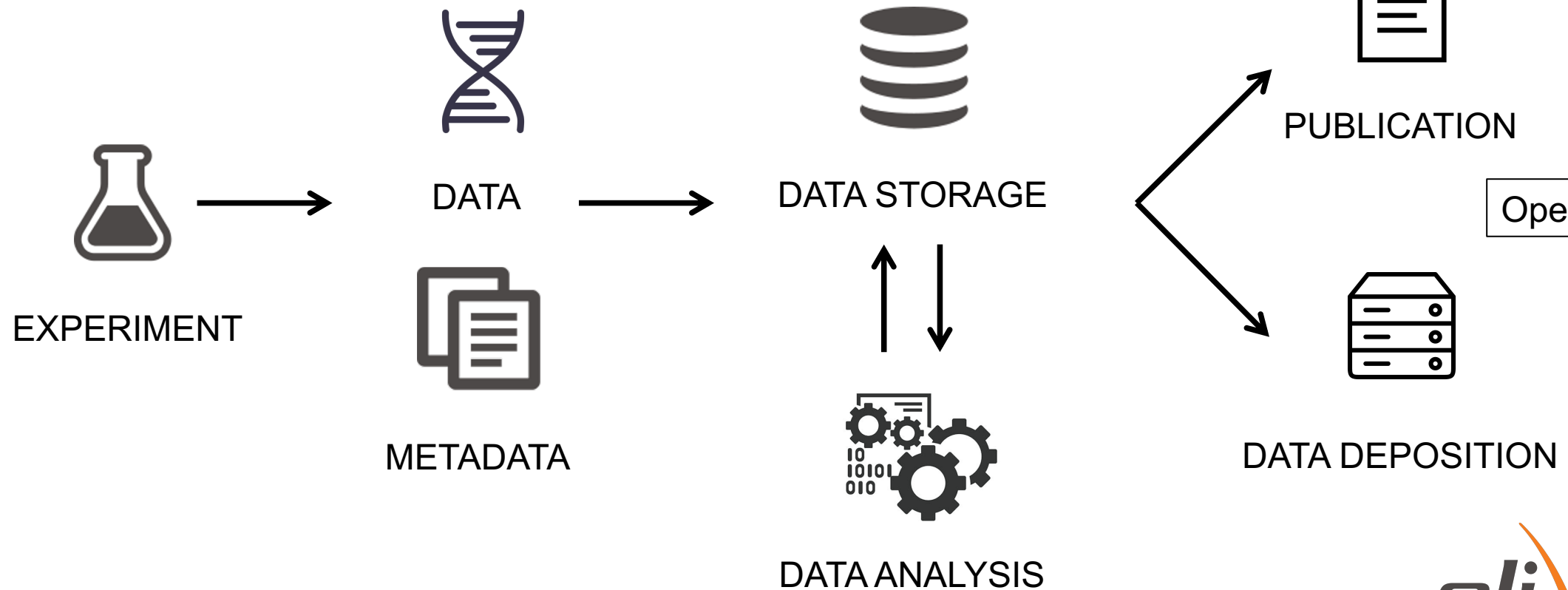
Typical flow in a research project



Local recommendations

Institutional DMP guidelines

Data management



Open science

Storage infrastructures

Local recommendations - Responsibility

As a general rule, UiT owns all research data produced by employees at UiT

Researcher:

Data management plan

Storing and archiving data

Open access to data

Collect and preserve metadata

Licencing



UiT:

Guide and support researchers

Provide data storage infrastructure

Provide data archiving



Local recommendations - DMP

All projects at UiT where handling of research data is relevant must have a DMP

This includes all registrations, notes, and reporting which are produced or arise in the course of research, and which are regarded as being of scientific interest and/or scientific potential.

The format of these may include, but is not limited to, numbers, text, source code, photographs, films, and sound



METADATA



SEQUENCE
DATA



IMAGE
DATA



NOTES



SOUND
DATA



Local recommendations - DMP

Many data management planning tools available

Many templates depending on the financing source

For life science research projects we recommend

the Data Stewardship Wizard

UiT provide a template for other projects here:

uit.no/forskningsdata



UIT
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Datahandteringsplan for tilsette ved UiT

NB! Denne malen er under utvikling. Det er derfor viktig at du hentar malen frå [Forskningsdataportalen UiT](#) kvar gong du skal laga ny datahandteringsplan.

Den utfylte planen kan sendast til research-data@support.uit.no for tilbakemelding.

(Norsk mal, versjon 20.11.2017)

Reglar for handtering av forskningsdata ved UiT er forankra i [Prinsipper og retningslinjer for forvaltning av forskningsdata ved UiT](#) (heretter forkorta til UiTs retningslinjer). Legg særleg merke til følgjande punkt:

- UiT har som hovudregel eigarskap til alle forskningsdata genererte av tilsette ved UiT (pkt. 2).
- Alle prosjekt der handtering av forskningsdata er relevant, skal ha ein datahandteringsplan (pkt. 4.2).
- Forskningsdata skal lagrast og arkiverast i eigna og pålitelege arkiv, som sikrar at UiT har vedvarande tilgang til bruk av dataa (pkt. 4.3).
- Forskningsdata skal gjerast ope tilgjengelege, så framtid det ikkje er juridiske, etiske, tryggleiksrelaterte eller kommersielle grunnar til å ikkje gjera det (pkt. 1).
- Forskningsdata skal utstyrt med metadata som gjer andre forskarar i stand til å søkja etter og ta i bruk dataa (pkt. 4.6).

Local recommendations – Data storage

UiT Information Security Governance

You are responsible for the correct
classification of your information

<https://uit.no/sikkerhet>

4 classes of confidentiality

Grønn	Gul	Rød	Svart
<i>Åpen</i>	<i>Intern</i>	<i>Fortrolig</i>	<i>Strengt fortrolig</i>

Local recommendations – Data storage

Classification dictates storage options

System / tjeneste	Åpen/Grønn	Intern/Gul	Fortrolig/Rød	Strengt fortrolig/Svart
Canvas	OK	OK	ikke godkjent	ikke godkjent
Ephorte	OK	OK	OK	OK
E-post (office 365)	OK	OK	ikke godkjent	ikke godkjent
EUTRO	OK	OK	OK	OK
Fellesområder	OK	OK	ikke godkjent	ikke godkjent
Felles Studentsystem (FS)	OK	OK	ikke godkjent	ikke godkjent
Hjemmeområdet (H:\)	OK	OK	ikke godkjent	ikke godkjent
Mediasite	OK	OK	ikke godkjent	ikke godkjent
Nettskjema / Sikker nettskjema	OK	OK	OK ¹	ikke godkjent
OneDrive for Business (office 365)	OK	OK	OK ²	ikke godkjent
Request Tracker (RT)	OK	OK	ikke godkjent	ikke godkjent
Sharepoint (office 365)	OK	OK	OK ²	ikke godkjent
Skype for Business	OK	OK	OK ³	ikke godkjent
Sway ⁵ (office 365)	OK	ikke godkjent	ikke godkjent	ikke godkjent
Teams (office 365)	OK	OK	OK ²	ikke godkjent
TopDesk	OK	OK	OK ⁶	ikke godkjent
Tjeneste for sensitive data (TSD)	OK	OK	OK	OK
Yammer (office 365)	OK	ikke godkjent	ikke godkjent	ikke godkjent
WiseFlow	OK	OK	OK ⁴	ikke godkjent

Borrowed from Erik Axel Vollan, ITA

Local recommendations – Data storage

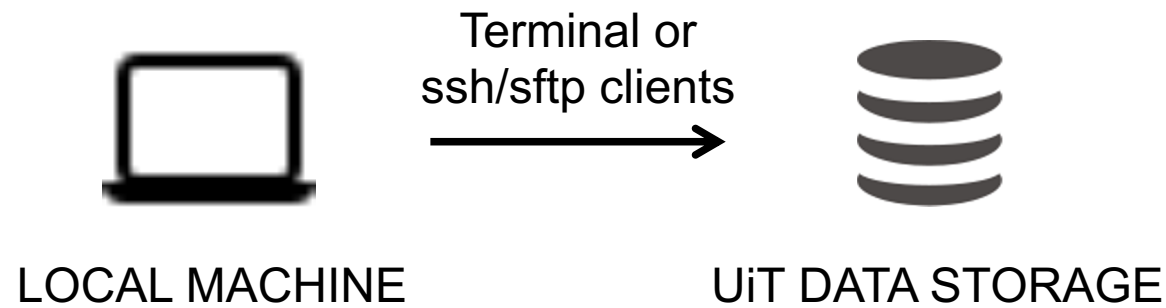
Storage resources at UiT

New projects contact ITA via helpdesk to get storage access

Base quota of 5 TB free storage per user

Pricing model for large projects (0.5 – 1 NOK/GB/Year)

Users must fill out a [form](#) describing data, giving some metadata



Local recommendations – Data storage

Challenge with instrument/laboratory data

- Instruments live much longer than their control PCs

- Software may not run on modern operating systems and can not be updated

- PCs must be restricted to closed networks

- Users transport data using USB memory sticks

ITA have a service for automatic transfer of data from instruments to central storage.

- Storage from several instruments

- Remote Desktop access to instruments

Local recommendations - Archiving

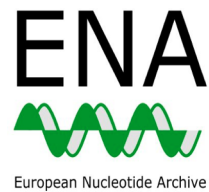
Three main types of research data repositories:

Domain-specific repositories, e.g. BioModels, Database of Genomic Variants Archive

Institutional repositories, e.g. UiT Open Research Data

General purpose repositories, e.g. Zenodo, Figshare, Harvard Dataverse

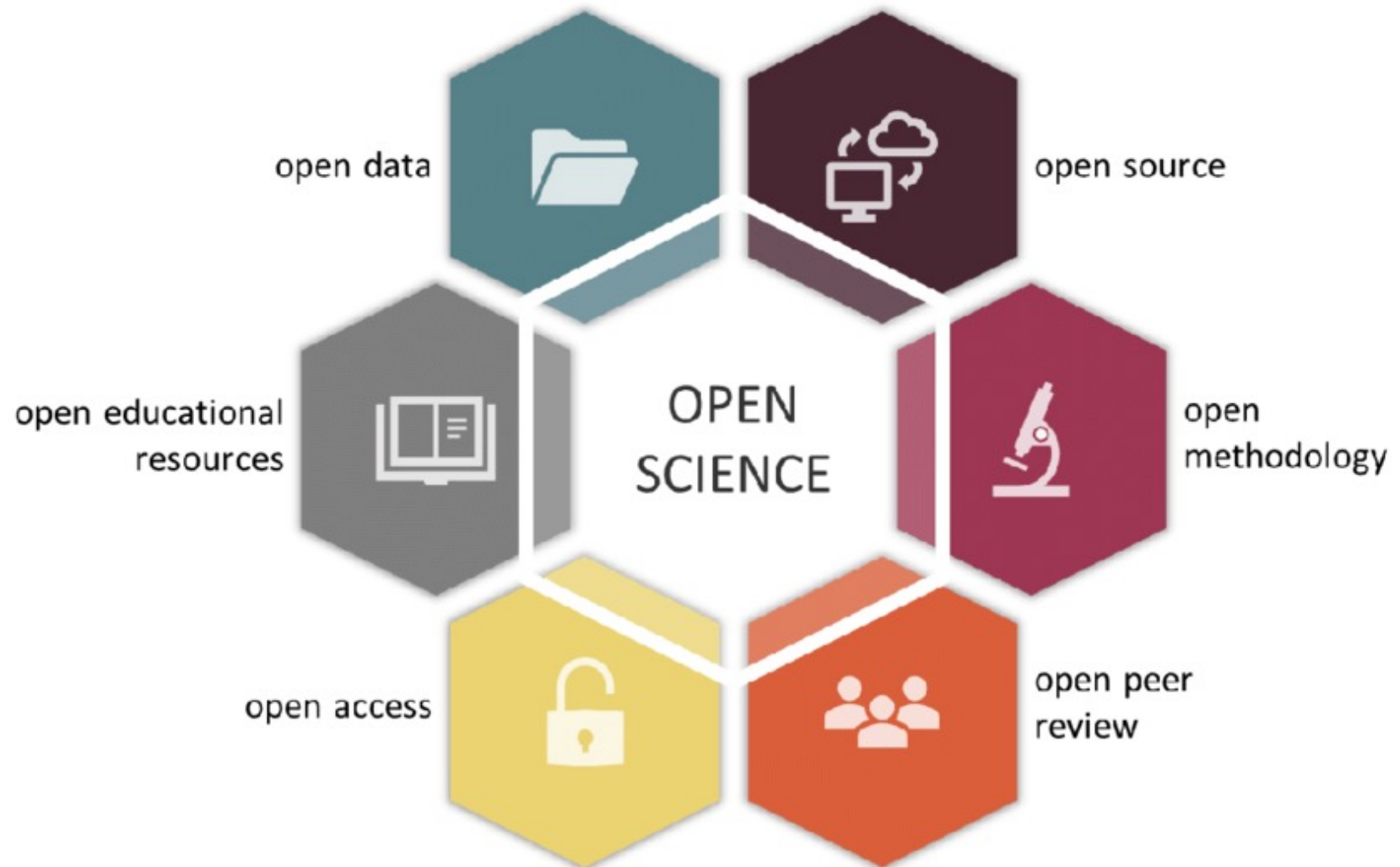
For life science data we recommend to go for the domain specific data repositories



Local recommendations – Open science

UiT follow EU's objectives and guidelines for open science:

open publications
open research data
software
source code
methodology
peer review
teaching resources




Local recommendations – More information

UiT provides research data management support and training:

UiT Research Data Portal: <https://uit.no/researchdata> or <https://uit.no/forskningsdata>


E-mail Support: research-data@support.uit.no or researchdata@hjelp.uit.no

UiT Open Research Data: <http://opendata.uit.no/>

**UiT The Arctic University of Norway**

SEARCH MENU

Startpage / Research / UiT Research Data Portal



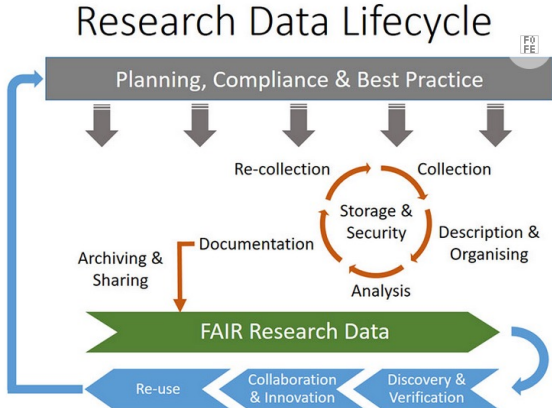
UiT Research Data Portal

The Research Data Portal UiT will provide information about storage, handling, archiving, access and sharing of research data for UiT students and researchers.

Good management and sharing of research data is a key principle for UiT The Arctic University of Norway, rooted in the value of increased transparency and quality of research, and in our social mission as a broad-based research university in the North.

It is of great **value** for future research that research data are archived and made available to others.

Research Data Lifecycle



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graph TD; A[Planning, Compliance & Best Practice] --> B[Collection]; B --> C[Description & Organising]; C --> D[Analysis]; D --> E[Storage & Security]; E --> F[Re-collection]; F --> G[Documentation]; G --> H[Archiving & Sharing]; H --> I[FAIR Research Data]; I --> J[Re-use]; J --> K[Collaboration & Innovation]; K --> L[Discovery & Verification]; L --> I;
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EVENTS:

- 7. SEPTEMBER 2021
[Håndtering av forskningsdata ved UiT: En introduksjon](#)
- 21. SEPTEMBER 2021
[Research data management at UiT: An introduction](#)
- 27. SEPTEMBER 2021
[Hvordan strukturere og dokumentere forskningsdata](#)
- 27. SEPTEMBER 2021
[Datavask og ryddige regneark](#)

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