DFFU 3.-4. marts 2022
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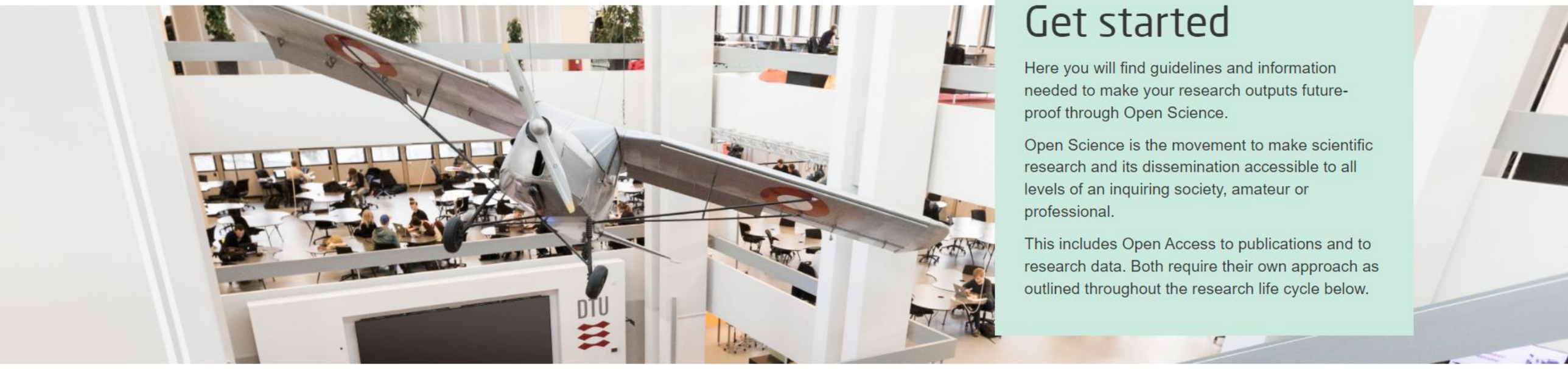
DTU Bibliotek

Open Science

- at DTU Library

> "Open Science is not about dogma per se; it is about greater efficiency and productivity, more transparency and a better response to interdisciplinary research needs."
>
> *- League of European Research Universities (2018)*



Get started

Here you will find guidelines and information needed to make your research outputs future-proof through Open Science.

Open Science is the movement to make scientific research and its dissemination accessible to all levels of an inquiring society, amateur or professional.

This includes Open Access to publications and to research data. Both require their own approach as outlined throughout the research life cycle below.

Planning research

☐ Publications ☐ Research data ☐ DTU Data ☐ DTU Findit ☐ DTU Orbit

Be Open
Open Access means offering free access to scientific publications in order to reach a wider audience and to benefit the research community more broadly.
#Publications

Check funder requirements
Check out the fine print when you receive funding for your research.
#Publications

Avoid debates about intellectual ownership
Do not to transfer all rights to the publisher
#Publications

Be Open and FAIR
Open Data are online, free of cost, accessible data that can be used, reused and distributed provided that the data source is attributed.
#Research data

Use existing data
Millions of data sets are readily available for use in innovation and research. Researchers often deposit data in data repositories, while data collected by organisations and public agencies may be found through their websites.
Take a look at DTU Data, Zenodo, Figshare, Danish Statistics, National Archives, Open Data DK or Dataset search
#Research data #DTU Data #DTU Findit

Check funder requirements and plan the costs
Funders increasingly emphasise that grants should lead to FAIR and Open Data.
#Research data

Clarify contractual, legal and ethical obligations
Familiarise yourself with external requirements and regulations that are important for your data.
#Research data

Plan FAIR data and write a Data Management Plan
The FAIR principles form the basis for good data handling practices at DTU.
#Research data

Kompleksiteten i forskningspublicering, af både artikler og data, vokser ekspotentielt i forhold til mængden af nye politikker, strategier, vejledninger og anbefalinger. Open Access har været på forskerne radar længe men nu er publikation af data den nye dreng i klassen. DTU Biblioteks opgave er at skabe og kommunikerer services der gør det lettere for forskeren af at være compliant og udnytte mulighederne i deling af forskning.

DTU Biblioteks Open Science Map er endnu ikke et beslutningstræ, men formentlig en kommunikationsform der imødekommer forskerne.

Vi har skabt et OS map der med få klik fører dig til kort og klar information om OA og RDM afhængig af hvor du er i din forskningsproces og hvilke publiceringskanaler du ønsker at bruge.

Conducting research

☐ Publications ☐ Research data ☐ DTU Data ☐ DTU Findit ☐ DTU Orbit

Choose a journal/publisher
Before submitting your manuscript to a publisher, check its scientific impact and reputation.
#Publications

Beware of predators
DTU publications must be easily and freely available to the widest possible audience
#Publications

Cover the costs

Cover the costs
Green Open Access costs nothing - golden and hybrid Open Access both come with a price tag. If Green OA is not an option, your project or department will have to foot the bill. Luckily, some publishers offer discounts on APCs as a part of DTU's subscription - and EU projects may upload publications free of charge in EUs Open Research Platform.
Check out your options here: Open Access Discounts
#Publications #DTU Orbit

Keep your data safe
Be sure to store your data on systems that are backed-up
#Research data

Tools to support data creation and documentation
Several methods and tools can be used to document, structure and manage research data
#Research data

Prepare your data for publication
Open and FAIR data should be shared in open formats and with rich documentation.
#Research data

Publishing research

☐ Publications ☐ Research data ☐ DTU Data ☐ DTU Findit ☐ DTU Orbit

Publish Open Access
DTU researchers can make their publications Open Access via DTU Orbit.
#Publications #DTU Orbit

Register your publication
DTU Orbit provides an overview of DTU's publication output.
#Publications #DTU Orbit

Monitor your Open Access output
In DTU Orbit, you can check if your publications are available for all to read.
#Publications #DTU Orbit

Choose an open license
Creative Common licenses work well for data, but not for software and code.
#Research data #DTU Data

Publish your data
DTU researchers can publish data and code in DTU Data.
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Register your data
Data sets with a DOI can be registered in DTU Orbit.
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Raise impact
Remember to cite the DOI of your data sets to increase visibility.
#Research data #DTU Data

Long term preservation
Danish law requires that certain data are reported and delivered for long-term preservation.
#Research data #DTU Data

Long term preservation
Danish law requires that certain data are reported and delivered for long-term preservation at the National Archives. Long-term preservation means archiving longer than the required 5 years after publication and data have to be thoroughly documented and in an open format. DTU Data secures your data for at least 10 years.
#Research data #DTU Data

Digital formidling af DTU's Open Science Forskningsinfrastruktur (OA & RDM)
- Med afsæt i bibliotekets infrastruktur

Bibliotek.dtu.dk/openscience