

Finnish National Guidelines for Open Science

Open Science Course at University of Jyväskylä
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Finnish Open Science and Research Initiative

- Ministry of Education and Culture initiative for the promotion of information availability and open science
- Goal to make Finland a leading country in openness of science and research
- Scope includes publications, research data, and methods
- Provides researchers with practical knowledge in how they as individuals can implement open science
- Several services offered by the Ministry to researchers
www.openscience.fi

Initiative collaboration structure

Open science and research forum
convenes annually in the autumn

Strategy group with members from universities, polytechnics,
research institutes, ministries, funding bodies, etc.

Expert group

Workshops and
targeted surveys

Special working
groups

Service
providers

Management of the
enterprise architecture

ATT Working Groups

- 9 working groups, 6 active, 3 have already finished their work.
- One of the missions of working groups is to make *suggestions* for guidelines and principles in national level.
- Decisions are made in strategy group/ministry level.
- Policies and principles are made and implemented in universities.

The Open Science and Research Roadmap 2014–2017

The following responsibilities mentioned in the Roadmap can be considered key actions for promoting openness in research organisations activities:

- Including openness in the organisation's strategy
- Creating a collaborative culture
- Well-defined policies for publication, licensing, and copyright and proprietary rights

The Open Science and Research Roadmap 2014–2017

...Continued

- A clear description of researchers' rights and obligations with regard to openness
- Developing and maintaining competences
- Promoting the use of shared services
- Systematic use of quality systems
- Promotion of interoperability
- Exemplary management of research results and methods
- Promoting openness, availability, visibility and usability, and introducing support services for their measurement

Research funders and Open Science

- EU:

http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf

- Academy of Finland:

<http://www.aka.fi/en/funding/responsible-research/open-science/>

+ Open Government programs:

<http://www.opengovpartnership.org/country/finland>

... and then..

- Open Science and Research Handbook for researchers <http://openscience.fi/handbook>
- Data Management Guide <http://openscience.fi/data-management-guide>

Getting complicated?

No worry, let's make it simple..

Guidelines – research papers

- All research papers should be made open access
- Two ways to openness:
 - **Green open access** – deposit your paper to university repository (in JU [JYX](#))
 - **Golden open access** – publish your paper in open access journal
- Remember: always publish your paper in the best possible forum for you!

Guidelines – green open access

- Publish your paper in the best possible forum
- When your paper is accepted for publication send your accepted version of the paper to the library or at latest when you are reporting your publication to university's research database.
- That's all!
- More: <http://openaccess.jyu.fi/en/parallel>

Guidelines – golden open access

- Basic idea on an open access journal: The author pays to get published while the consumers have free access
- List of open access journals: <https://doaj.org/>
- There are very respected open access journals but also those which are not so valued.
- ... and even a long list of predatory journals: <https://scholarlyoa.com/publishers/>
- Hybrid OA: an article can be bought open in subscription based journal – not recommended

Guidelines – research data

- Share your data when possible – not all data should or could be open to everybody
- What does open mean?

<http://opendefinition.org/od/2.1/en/>

- public domain or provided under an open license
- should be downloadable via the Internet without charge
- must be provided in a form readily processable by a computer
- must be provided in an open format

Guidelines – research data

- Use DMPTuuli to create your data management plan:
<https://www.dmptuuli.fi/>
- Follow the *Responsible conduct of research and procedures for handling allegations of misconduct in Finland - RCR guidelines* by The Finnish Advisory Board on Research Integrity (TENK)
- ...and open science guidelines by The Academy of Finland:
<http://www.aka.fi/en/funding/responsible-research/open-science/>
- In JU:
<https://www.jyu.fi/tutkimus/tutkimusaineistot/rdmenpdf>

Open Science and Research services

- Etsin research data finder
- IDA research data storage
- AVAA open data publishing platform
- Aila data service portal
- Language Bank of Finland
- Doria & Theseus publication archives
- FINTO ontology service

<http://openscience.fi/services>



Open Science
and Research
Handbook

Data
management
guide and
checklist



Goals for Finnish open science

- 2017: 65% of Finnish research papers are open access
25% of Finnish research data are openly licensed
- 2018: 75% of Finnish research papers are open access
30% of Finnish research data are openly licensed
- 2020: 90% of Finnish research papers are open access
50% of Finnish research data are openly licensed
- All metadata should be available in national metadata services

We all have a lot to do!