Research data management - Finland

• in Finland most universities have published their data management guidelines.

• Ministry of Education and Culture
  • Open science and research -initiative
  • Development of the national data management tool (DMP tool) in Tuuli-project (2016).

• In Finland the status of open access to research data has been implemented in a large-scale Open Science initiative and the other Nordic countries are following (NordForsk 2016).

• Scholars knowledge on the topic, their attitudes and their actual behaviour relate to research data literacy.
Data collection

• Part of an international collaboration project on Data Literacy and Research Data Management. The survey instrument, consisting 24 questions, was created by researchers from England, Turkey and France.

• LimeSurvey online platform used for data collection.

• The survey (in English, Finnish and Swedish) was distributed by utilising the higher education institutions’ and research organisations’ personnel involved in the development of the national DMP tool (Tuuli-project 2016).
Data collection and analysis

• The data were collected in June and July 2017.
• The statistical analysis was conducted by using IBM SPSS Statistics.
• From the respondents 612 had answered at least to one question & 469 answered all of the questions.
Age and gender

**Age**

- 18-25: 5%
- 26-35: 40%
- 36-45: 20%
- 46-55: 10%
- 56-65: 10%
- 65+: 5%
- Don’t want to disclose: 5%

**Legal gender**

- Male: 15%
- Female: 40%
- Other: 5%
- Don’t want to disclose: 5%
Research experience and current role

How long have you been involved in research?

- < 5 years: 50%
- 5-10 years: 20%
- 11-15 years: 10%
- 16-20 years: 10%
- > 20 years: 10%
- I have never been involved in research: 0%

Your current primary role

- Research student: 60%
- Academic staff: 30%
- Other (teacher, coordinator etc): 10%
Volume and origin of data

The volume of data used for research

How you usually get the data for research?

- Create new data
- From own research team/group at the university
- From own research network (or personal/professional connections)
- Always from multiple known sources
- Always from one known source
Storaging and sharing of data

Where do you usually store the data you produce from your research?

- Your own devices (your computer, your tablet, external drive, etc.): [Percentage]
- Central servers/repositories of the university: [Percentage]
- Cloud: [Percentage]
- Outside repositories: [Percentage]

Do you collaborate with other researchers and share data?

- Yes, with researchers in the same team: [Percentage]
- Yes, with researchers in other institutions: [Percentage]
- Yes, with researchers in the same university: [Percentage]
- No: [Percentage]
Openness of data and concerns relating to sharing

Which of the following applies to your research data?

- My data is available openly upon request
- My data is openly available only to my research team
- My data has restricted access (e.g. only some parts of the dataset is accessible)
- My data is not available to anyone else
- My data is openly available to everyone

Do you have any concerns for sharing data with others?

- Legal and ethical issues
- No concerns
- Misinterpretation of data
- Misuse of data
- Lack of appropriate policies and rights protection
- Fear of losing the scientific edge
- Lack of resources (technical, financial,...)
Data Management Plan (DMP)

- Only about fifth (22.1%) responded that their institution has a DMP – 65.5% were uncertain.
- 24.0% had ever used DMP for their research.
- 22.9% had a DMP for their current research project.
- 73.6% agreed that every university should have a DMP.
- 32.4% think that DMP actually helps researchers in managing their research data – 58.3% were uncertain.
- Only few (8.1%) had had formal training on DMP.
Have you ever used a DMP for your research?

- Yes
- Uncertain
- No

Research field

- Natural sciences
- Technology
- Engineering
- Health sciences
- Medical and health sciences
- Agricultural sciences
- Social sciences
- Humanities
Discussion

• In general, many informants are uncertain of the issues related to open research data management.

• Although numerous foundations already recommend openness of research conventions, not all informants are aware of this.

• The results could be beneficial for universities and other research organizations in promoting research data management and open data initiatives.

• Open science movement is gaining increasing support in Finland!
Thank you!
Any questions?

Contact us:
Heidi.enwald@oulu.fi
Terttu.kortelainen@oulu.fi

Open science and research:
http://openscience.fi/
Tuuli-project:
https://wiki.helsinki.fi/display/Tuuli/DMPTuuli-project
NordForsk policy paper (2016):