DATA LITERACY FOR MASTER LEVEL
AT THE UNIVERSITY OF HELSINKI

ECIL 2023 Krakow 11.10.2023
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OUTLINE FOR TODAY

• Data literacy in higher education
• University of Helsinki context
• Issues to address
• Our solutions
• Feedback so far
DATA LITERACY IN HIGHER EDUCATION

- Students doing independent research projects or reusing existing data
- Understanding of data citation and management
- **Transferable skill that will greatly benefit students when they enter the workforce.**
- Systematic data management guidance in all levels: undergraduate, graduate and Master level.
4 CAMPUSES
11 FACULTIES

CITY CENTER CAMPUS
21 000 STUDENTS
FACULTY OF ARTS
FACULTY OF EDUCATIONAL SCIENCES
FACULTY OF LAW
FACULTY OF THEOLOGY
FACULTY OF SOCIAL SCIENCES

KUMPULA CAMPUS
6 000 STUDENTS
FACULTY OF SCIENCE

MEILAHTI CAMPUS
3 000 STUDENTS
FACULTY OF MEDICINE
UNIVERSITY HOSPITAL HUH / HUS

VIikki CAMPUS
6 500 STUDENTS
FACULTY OF BIOLOGICAL AND ENVIRONMENTAL SCIENCES
FACULTY OF VETERINARY MEDICINE
FACULTY OF PHARMACY
FACULTY OF AGRICULTURE AND FORESTRY
RESEARCH DATA SUPPORT AT UH

University of Helsinki Research Data Policy

- datasupport@helsinki.fi
- Data Support Network
- Data management specialists at the Helsinki University:
  - Library
  - IT Services
  - Research Affairs
  - Legal Affairs
- https://www.helsinki.fi/en/research/services-researchers/data-support
RDM TOOLS AND SERVICES

**Data management planning**
- DMP review service
- An online tool for data management planning [DMPTuuli](#)

**Data collection**
- Documentation & metadata [guide](#)
- Electronic data capture software for sensitive data: [REDCap](#)

**Long term preservation of research data**
- Consultation for suitable preservation solutions
- UH’s own [PAS](#) service (piloting phase)

**Open your research outputs with PIDs**
- Consultation for suitable opening and publishing solutions
- Data publishing tool: EUDAT – [HY-B2SHARE](#)
- DOIs for UH research data infrastructures [DataDOI](#)

**Legal services**
- Technical Data protection services
- Consultation on ethical issues

**Teaching and training**
- [Courses & Workshops](#)
- Webinars and other events

**IT and storing solutions with automatic backup**
- Consultation for suitable storing solution
- Online data storage: EUDAT – [FI.B2DROP](#)
- Sensitive data storage – [UMPIO](#)
- Support for [CSC](#) Services

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[DMPTuuli](#) | [REDCap](#) | [PAS](#) | [HY-B2SHARE](#) | [DataDOI](#) | [FI.B2DROP](#) | [UMPIO](#) | [CSC](#)
DEVELOPMENT OF DATA SUPPORT AT THE LIBRARY

• Library’s data management team 2009 -
• Teaching RDM started for doctoral researchers 2014
• Teaching of data management planning and other skills for researchers 2017-
• So far, the education has reached researchers and administrative staff
• GDPR 2018: the demand for data management education for all levels
ISSUES TO ADDRESS

• The scale of undergraduate students
• Embedded in thesis seminars?
• Academics reluctant to take on new responsibilities
• How to start handling personal data according to GDPR requirements right from the start
OUR SOLUTIONS

- Self-study material
- Personal data test
- Teaching pilot with faculty
- Introductory wizard
- DMP template for students
SELF STUDY MATERIAL

• Material for undergraduates and teachers in Finnish, English and Swedish (template only in Finnish at the moment, personal data test in Finnish and English)

• Shareable and linked to other undergraduate courses

https://libraryguides.helsinki.fi/datamanagement
PERSONAL DATA TEST QUIZ

• GDPR is a challenge for students and researchers alike
• Aims at learning to recognize personal information

https://redcap.helsinki.fi/redcap/surveys/?s=7PJWAYXTFJTCCRTA
TEACHING PILOT WITH FACULTY

• Open Science practices in general together with library pedagogical and OA experts and the faculty

• Simple assignments aiming at learning to recognize and verbally describe research data sets

https://wiki.helsinki.fi/display/hulibtuda/Farmasian+kv-maisteriohjelman+luennot+2022

Pre-assignment for the data management lecture (22nd Nov)

Get familiar with the data produced in your hosting research group.

Some questions:

1. How researchers in the group have collected or produced the data. Or was the data already existing, which means it is reused data?

2. What kind of data the group has: e.g. tables, text, audio, video, surveys, codes? Which methods or machines are used for producing data?

3. What kind of information does the data have?


5. Could someone in the group even show an example of what the dataset looks like?
INTRODUCTORY WIZARD DEVELOPMENT UNDER WAY

https://rdmintro.helsinki.fi/
FEEDBACK SO FAR

Teaching Pilot: very positive feedback both from the students and the teachers.

- Think Open Blog: Experiences of teaching open science – library and faculty working together

Personal Data Test Quiz:

- Great interest from other universities the personal data test quiz: requests for xml-copy => using the same model

Introductory Wizard:

- not yet launched for customers, but very promising and fruitful way to work together with the IT-experts and students for a common practical goal

It is not necessarily easy to grasp the concept of material or data at the beginning of a master's degree course, but in this context, the students were able to get a very concrete answer to this question by finding out what kind of data is created and used in their own research group.
References


Thank you!

#HULIB
www.helsinki.fi/kirjasto