

FAIR data competences in Tampere University

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TAMPERE UNIVERSITY



Photo: Jenni Toivonen

- Second largest university in Finland
- 2019: the University of Tampere, the Technical University of Tampere and the Tampere University of Applied Sciences merged

→ TAMPERE UNIVERSITY

- Multidisciplinary university focusing on technology, health and society
- Over 2000 doctoral researchers and over 200 doctoral thesis are defended yearly

FAIR AND INSTITUTIONAL STRATEGY

• Tampere University's Open Science Policy and Action Plan

Policy

- The researcher ensures that the research data to be produced is findable, accessible, interoperable and re-usable (the FAIR principles)
- Every member of the Tampere higher education community is responsible for the implementation of good data management practices, i.e. for systematic research data management and the observance of the principles of research ethics, legislation and agreements throughout the data life cycle

Action Plan

- Tampere University will ensure that its processes, information systems and support, guidelines, and education enable the realisation of the FAIR principles (findable–accessible–interoperable–reusable) in all research work from its beginning to its end.
- In order to make the members of the University community aware of their responsibilities in good data management, the topic will be integrated in curricula and taught from basic studies onwards



Photo: Jonne Renvall, Tampereen yliopisto / Tampere University

FAIR AND INSTITUTIONAL STRATEGY

- **Data Management Policy for Open Research Infrastructures**
 - The policy provides general guidelines and principles for research infrastructures to promote responsible use and open access to their resources
 - The guidelines and principles enable to make the data produced by the infrastructures findable, accessible, interoperable and reusable (FAIR)



Photo: Marko Kallio Skyfox

FAIR DATA IN DOCTORAL STUDIES

- Doctoral School

- Joint Doctoral School provides systematic, up-to-date and high-quality education (Finnish, English) and the curriculum complements the university's doctoral programmes
- Helps to identify and develop essential skills related to research, research methodologies and research ethics
- <https://www.tuni.fi/en/research/doctoral-school>



- The Research Data Services

- Offer service, tools and training for gathering, documenting, storing and sharing the research data
- Mainly responsible for data management training
- The service supports the implementation of FAIR in all phases of a research project.
- Library, IT Services, Research Services, Records Management and Legal Service Team together with The Finnish Social Science Data Archive (FSD)
- <https://research.tuni.fi/researchdata/>

FAIR DATA IN DOCTORAL SCHOOL

Managing Research Information (TAUJ035c)	Research data management: survey and interview data (TAUJ035d)
<ul style="list-style-type: none">• 3 ECTS, working in Moodle• Emphasises the processes of systematic information management within the participants' own research work• Modules include: information searching, scientific visibility and impact, open access publishing, research data management• FAIR principles are introduced in chapter Sharing and opening data<ul style="list-style-type: none">• The idea is to get the doctoral student aware of FAIR	<ul style="list-style-type: none">• 1 ECTS, opening lectures and Moodle• Primarily meant to be taken after completing the Managing Research Information course• FAIR principles are introduced in the opening lecture• In Moodle the doctoral researchers work independently and in their own pace<ul style="list-style-type: none">• FAIR principles are explained in section "Opening research data"• Broader awareness of FAIR compared to MRI course

FAIR DATA IN DOCTORAL SCHOOL



Research ethics

- Mandatory course for doctoral researchers (TAUJ12)
 - Organiser: University lecturer on research ethics and Doctoral School
- Open science included in the lectures (data management, open access publishing, researcher impact and visibility + data protection)
 - Data management: emphasis of the lecture is on good scientific practice combined with responsible data management
 - FAIR principles are introduced
 - Next: connecting FAIR to good scientific practice and responsible data management

WHAT'S NEXT

- Data management and FAIR data awareness should be implemented more systematically to studies (both basic and doctoral)
 - Basic studies: The principles of open science are included in the Library's Information Searching teaching (mandatory for all students) but more is needed
 - →Eases the way to doctoral studies when the basics of RDM and FAIR have already been acquired
 - Especially data intensive subjects need more data management training
 - Data management is not just a researcher skill but a working life skill
 - More FAIR data in doctoral education
- Increasing data management training focusing on thesis supervisors
 - Is already being done but we need to figure out how to implement this to all supervisors
 - The challenge is that RDM training is still largely voluntary
 - National policy on open data and methods; Policy component 1: Open access to research data
 - FAIR data
 - Emphasis on the importance of training supervisors, as well as including data management training in the curricula for basic and further education
- To consider: how to increase knowledge about reusing and utilising FAIR data

The background of the slide is a close-up photograph of light purple flowers with five petals each. Some flowers are in full bloom, while others are still in bud form. The colors range from a pale lavender to a slightly deeper purple. The text 'THANK YOU!' is centered over this image in a bold, dark blue font.

THANK YOU!

LINKS

- Tampere University's Open Science policy: <https://www.tuni.fi/sites/default/files/2019-02/tuni-open-science-guidelines.pdf>
- Tampere University's open Science Action Plan: <https://www.tuni.fi/sites/default/files/2019-02/tau-action-plan-on-open-science.pdf>
- Data Management Policy for Open Research Infrastructures: <http://urn.fi/URN:NBN:fi:tuni-202005265684>
- The Research Data Services: <https://research.tuni.fi/researchdata/>
- *Open research data and methods. National policy and executive plan by the higher education and research community for 2021–2025. Policy component 1: Open access to research data:* <https://avointiede.fi/sites/default/files/2021-05/Open%20research%20data%20and%20methods%2C%20policy%20component%201.pdf>