



**DocEnhance**

# **Data Stewardship**

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FAIR data competences in doctoral education programmes, 26-27 May 2021



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«The battle against the coronavirus underlines **the importance of sharing data** and co-operating across disciplines and national boundaries. This is something we need to uphold even when the threat from corona is gone. **The global co-operation currently taking place must become the established way of working,** in order for the world to benefit from our important investments in science.»

(Jonassen & Røttingen, 2020, our translation)



This project has received funding from the European Union's Horizon 2020 Science with and for Society programme under grant agreement no. 872483



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# Renewed focus on research integrity

Accountability

Reliability

Respect

Honesty

Lack of transparency

Questionable research practices



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# Renewed focus on research integrity

Open science is just as much about values and ethics as it is about technology. Most of all it is about the role of science in society. It is perhaps **the most all-encompassing value discussion that the research community has ever known.**

(Laine, 2018, p. 69, bolding ours)



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# What do you learn when you learn RDM?

Responsible management of data is part of good research practices → to be acquired during doctoral education

- Transferable skills relevant for work also outside academia (protect, organise, disseminate information)
- Broader understanding about the importance of being transparent and working in line with ethical guidelines



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# RDM @ UiT The Arctic U of Norway

- Biannual cross-disciplinary seminar on research integrity, open science, (open access) and RDM for PhD candidates
- Annual faculty-wise seminar on open science (open access and RDM) for PhD supervisors
- Introductory and thematic RDM courses for employees
- Institutional archive for open data

*The FAIR principles used as a guide in the development*



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# The DocEnhance project

- 3 years (2020-2022)
- funding from EU Horizon 2020
- 19 partners
- Project website  
<https://docenhance.eu/>



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## Main objective

Enhance transferable skills intelligence and integration into existing PhD programmes by ...

- developing an employment and innovation-oriented curriculum for PhD programmes
- facilitating business-education partnerships
- tracking PhD graduate career paths



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## Key deliverable

Three pilot courses, to be published for reuse on the DocEnhance Platform

- Data stewardship
- Career management and entrepreneurship
- Supervision



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# The Data Stewardship course

- Covers all phases of the research data management life cycle, including discussions about the very purpose of RDM as well as the concept *data*.
- Developed by a group of RDM specialists at UiT, involved in RDM teaching at the institution
- Three-person working group in charge of it all (H.N. Andreassen, H. Hansen & L. Longva)

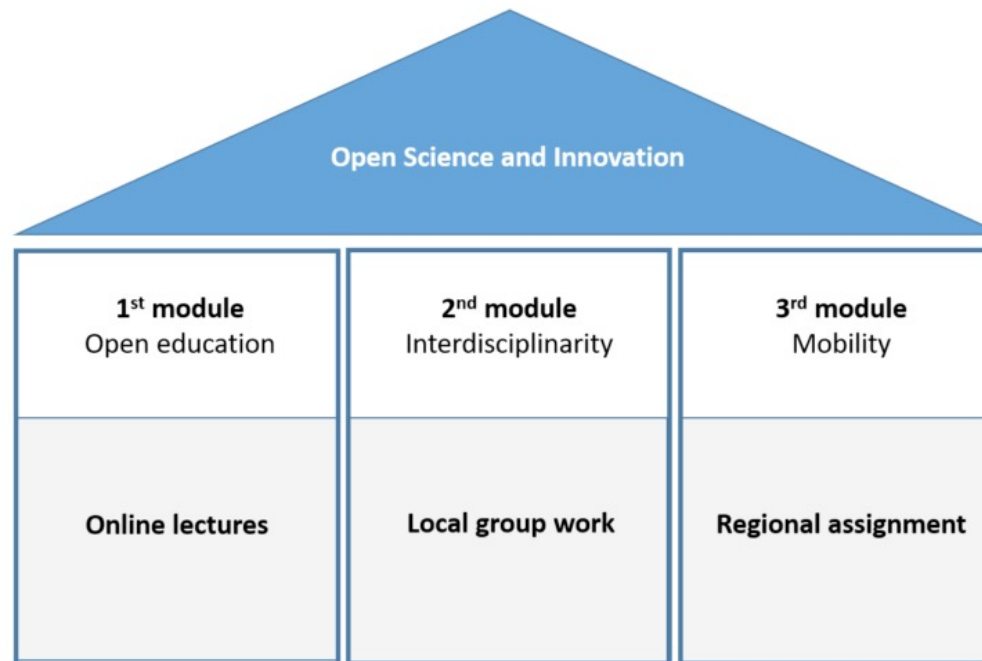


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# Three modules



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# Module 1

## Open education

- Purpose: Learn basic RDM
- Online course on the Moodle platform
- 10 topics, incl. suggested readings
- Focus on motivation, theory and concepts
- Interaction via quizzes and open « food for thought »
  
- Content and level of detail: based on up-to-date RDM knowledge and own teaching experience, with the target group in mind



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## **Module 2**

### Interdisciplinarity

- Purpose: Employ RDM skills and knowledge in a collaborative setting (data from different disciplines)
- Focus on application of knowledge from Module 1
- Seminar teaching material on the Moodle platform
- Six three-hour long thematic sessions
- Student-led from A to Z (pre-assignments, groups, buzz groups)
  
- The local teachers decide which content and activities to use, given the participant group and time constraints. Other examples may be used, if more appropriate



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## **Module 3**

### Mobility

- Purpose: Employ RDM knowledge in cooperation with non-academic sector
- Focus on application of knowledge from Modules 1 and 2
- Teacher material on the Moodle platform
- Advice from the non-academic sector, assignment ideas, community-driven resource bank
  
- The content of this module very much depends on the local stakeholders involved



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# Implementation

## Using DocEnhance locally

- The Data Stewardship course may be freely used
- Licenced CC-BY
- The local university decides whether PhD candidates receive credits for taking the course
- All three modules come with an assignment that together may function as examination



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29/04/21

This certification is awarded to

**Anna Chmelová**

in recognition of the successful completion of the

**DocEnhance Data Stewardship course Module 1**



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## Calendar

- Two rounds of testing & evaluation at Karlstad University and University of Chemistry and Technology, Prague
- Two rounds of revision by UiT
- Planned release: End of 2022



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# **Data Stewardship**

**to be officially released by the end of 2022**



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## References

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