

NTK

50°6'14.083"N, 14°23'26.365"E
Národní technická knihovna
National Library of Technology

DocEnhance Pilot Data Stewardship Course

LIBER Annual Conference - Workshop FAIR data enabling
through European research libraries, 25 June 2021, online

eva.hnatkova@techlib.cz



TODAY

TOMORROW

Overview

- Background information
- DocEnhance
- Data Stewardship Course
- Module 1, 2, 3
- DocEnhance Platform

About me



[@EvaHnatkova](#)

- Open Science Coordinator at
 - National Library of Technology
 - UCT Prague
- Eurodoc former president
- DocEnhance Advisory Board member
- PhD in process engineering

NTK

50°6'14.083"N, 14°23'26.365"E
Národní technická knihovna
National Library of Technology



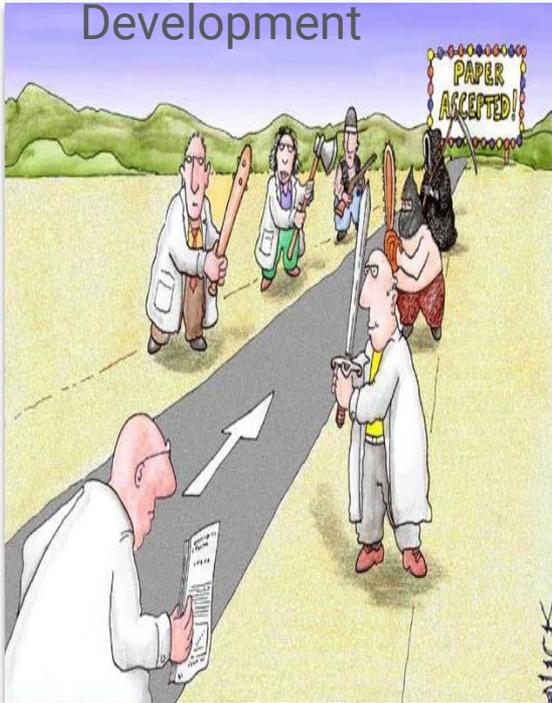
**UNIVERSITY OF
CHEMISTRY AND TECHNOLOGY
PRAGUE**

eurodoc

The European Council of Doctoral
Candidates and Junior Researchers

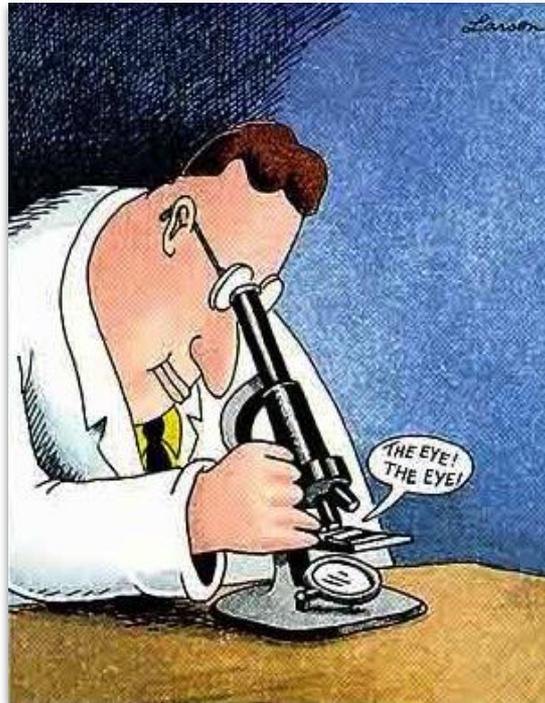
Issues for early-career researchers

Career Development



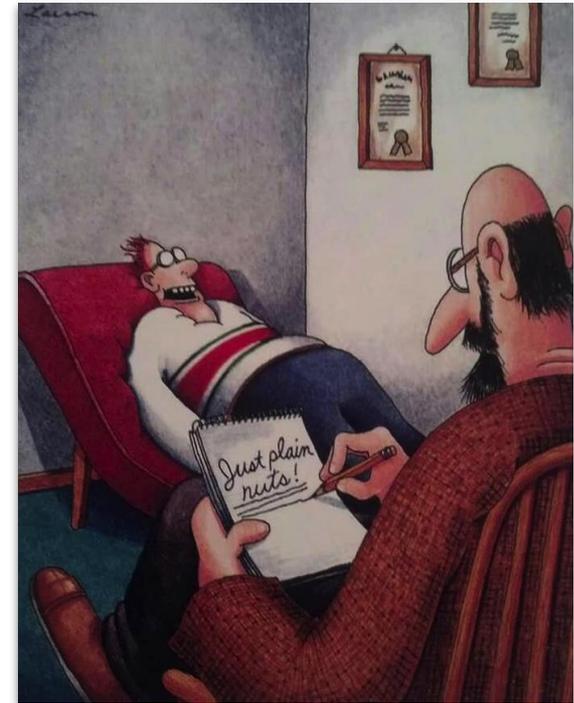
[O'Neill & Storti \(2018\)](#)

Open Science



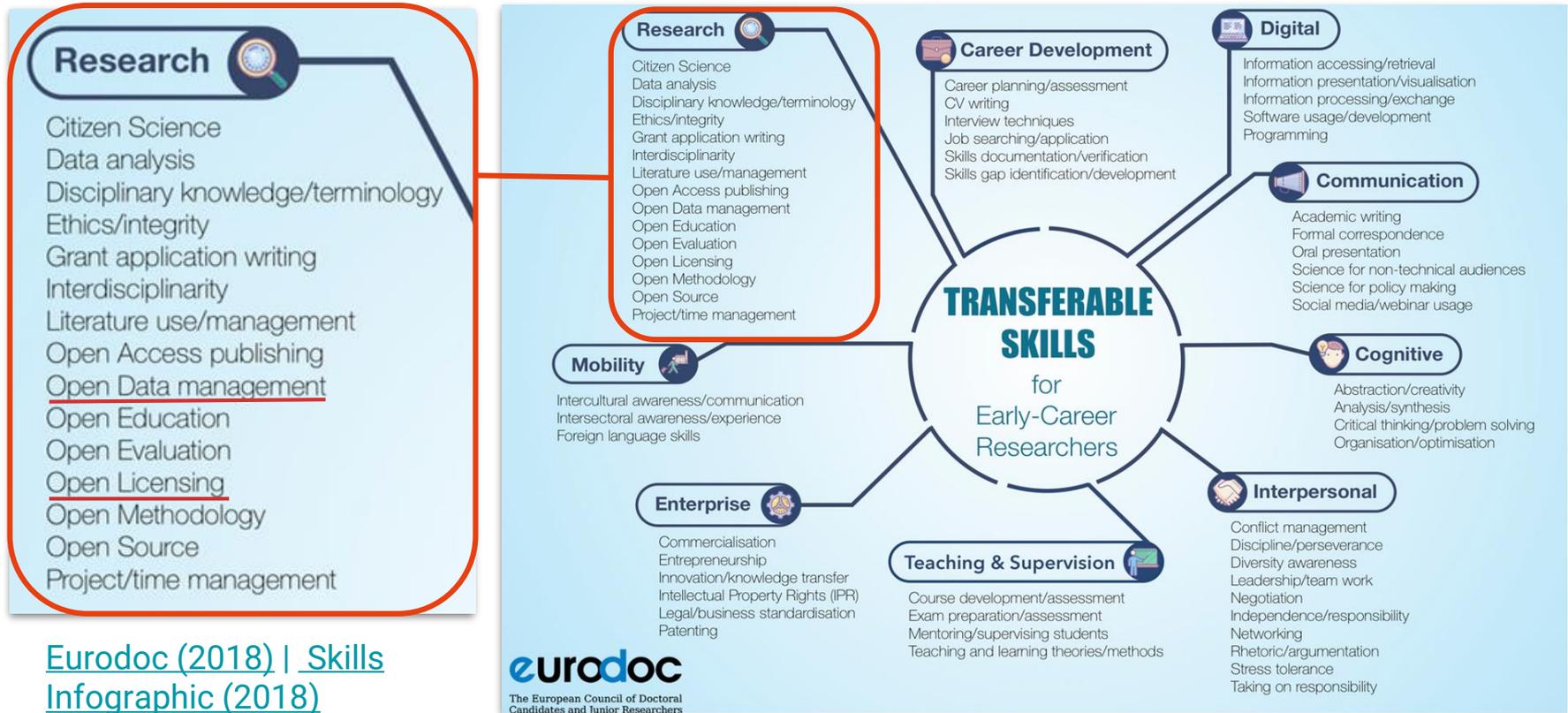
[O'Neill & Hnátková \(2018\)](#)

Mental Health



[O'Neill & Schroijen \(2018\)](#)

Development of transferable skills



[Eurodoc \(2018\) | Skills Infographic \(2018\)](#)

DocEnhance



DocEnhance

DocEnhance - EU project

Topic: SwafS-08-2019: Research innovation needs & skills training in PhD programmes

Forthcoming

Publication date: 27 October 2017

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 11 December 2018

Deadline: 02 April 2019 17:00:00

Time Zone : (Brussels time)



DocEnhance

- 3 years (2020 - 2022)
- funding from EU H2020
- 19 partners
- Project website

<https://docenhance.eu/>



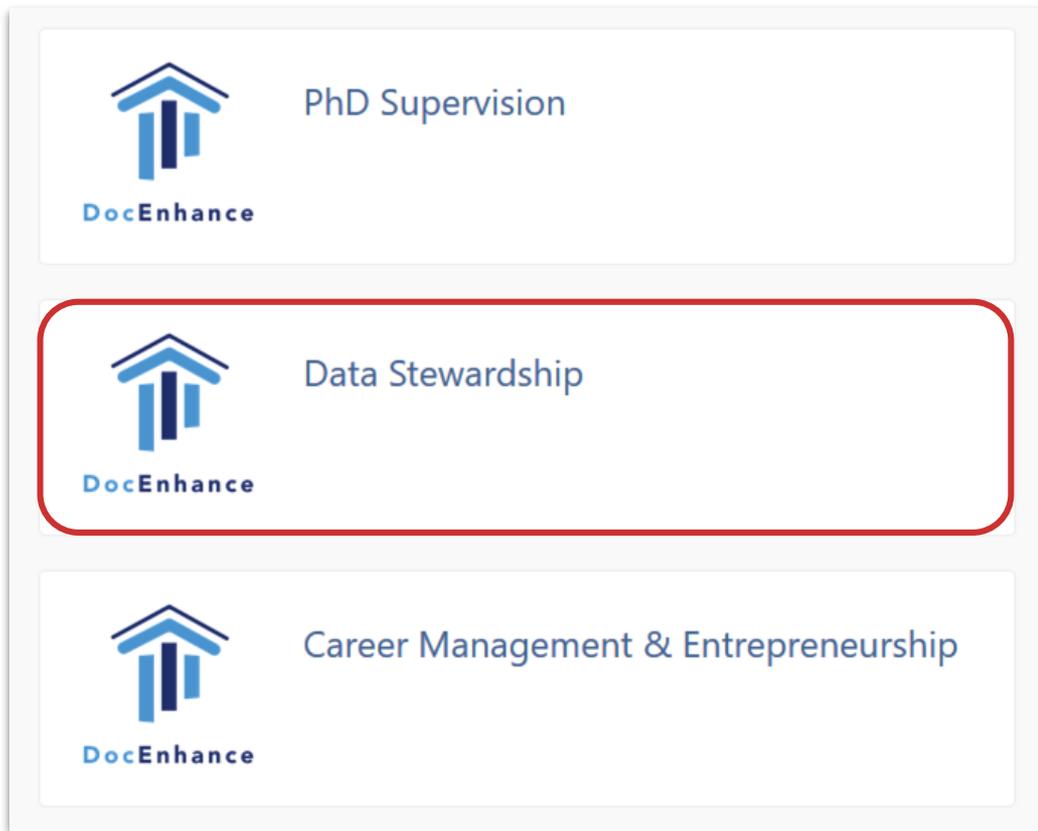
UiT The Arctic
University of Norway



Photo: Jonatan Ottesen, UiT

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

Key deliverable - 3 pilot courses



DocEnhance PhD Supervision

DocEnhance Data Stewardship

DocEnhance Career Management & Entrepreneurship

Open for reuse on the DocEnhance Platform

- Under licence CC-BY



Planned release:

- End of 2022

Data Stewardship Course

25/06/2021

LOCAL GLOBAL

% → ‰

POWER
SUPER POWER

11

OIL

Data Stewardship Course

Developed by a group of RDM specialists at UiT, involved in RDM teaching at the institution



UiT The Arctic
 University of Norway

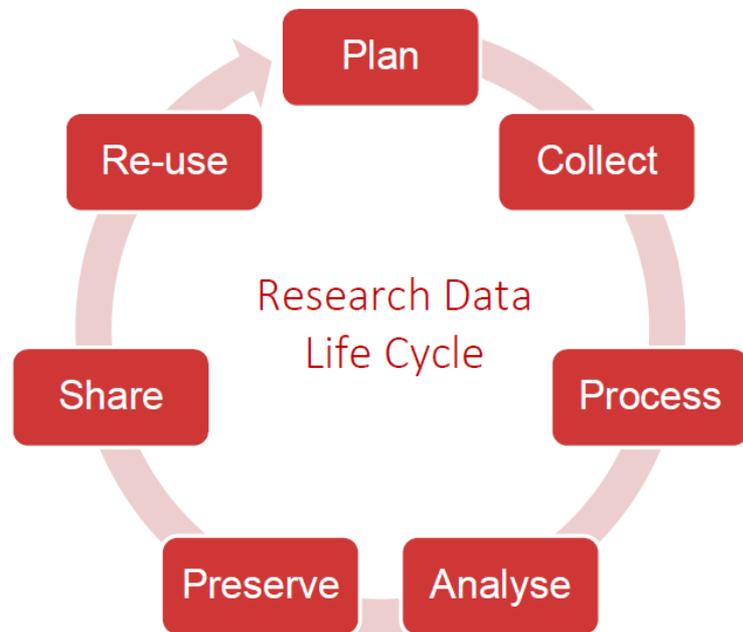
Three-person working group
 in charge of it all

- [Helene N. Andreassen](#)
- [Henning Hansen](#)
- [Leif Longva](#)



Aims of the course

- ✓ to introduce to the complexity and significance of data management to PhD candidates
- ✓ to walk through **all the steps of research data management**, from **finding relevant data** to **publishing an own dataset**
- ✓ to help with the PhD thesis, while at the same time to make PhD candidates feel better prepared for a job outside academia after graduation
- ✓ to combine practical exercises with theoretical content



Pilot courses

University of Chemistry and Technology in Prague, Czechia



~ 25 Doctoral candidates

~ 8 teachers

Pilot - financial remuneration for active participation and subsequent feedback

Karlstad University, Sweden

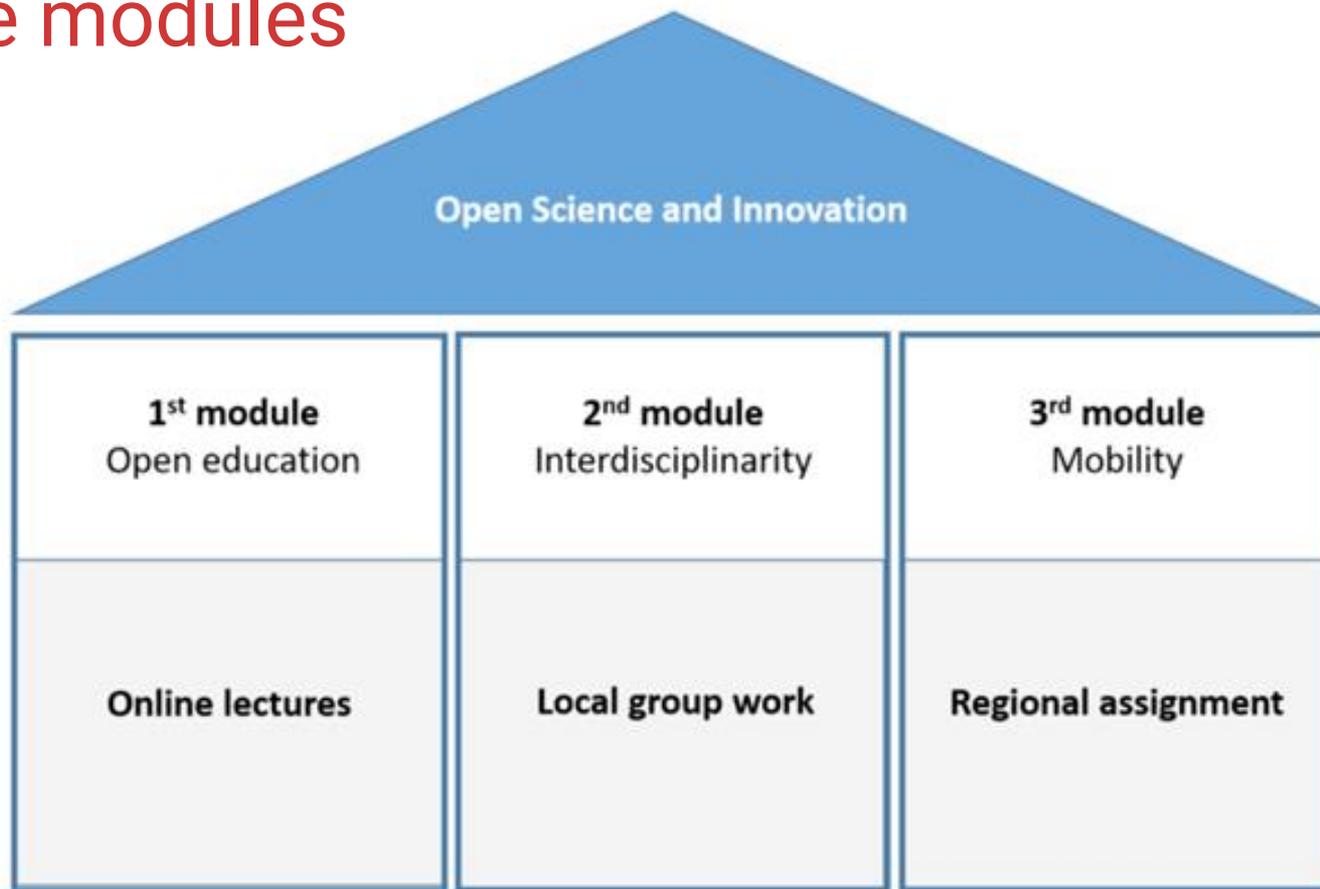


~ 25 Doctoral candidates



Module 1, 2, 3

Three modules



Three modules

MODULE 1	MODULE 2	MODULE 3
online lectures	workshops & assignments in local working teams	workshops & regional assignments with employers
<ul style="list-style-type: none">● general introduction● basics of how to handle research data in a PhD thesis	<ul style="list-style-type: none">● learning by doing● practical assignments● working in small groups● discussions● local resources● meet local demands	<ul style="list-style-type: none">● practical tasks in cooperation with business / public service entity● help to prepare PhD candidates for a career outside academia● putting into practice the theory & practical skills

Module 1: 10 thematic sections

Focus on motivation, theory and concepts (~ 16 hours)

1. Introduction
2. About research data
3. How to search & cite research data
4. Research contracts
5. How to structure & document research data
6. How to store research data
7. How to visualise research data
8. How to archive research data
9. Rights and licenses for research data
10. How to write a research DMP

- Video, suggested **readings**
- Interaction via **quizzes** and open « **food for thought** »

Module 1



E-learning VŠCHT

DocEnhance Data
Stewardship course:
Module 1

Participants

Badges

Competencies

Grades

Home

Dashboard

DocEnhance Data Stewardship course: **Module 1**

[Home](#) / [My courses](#) / [DocEnhance Data Stewardship course: Module 1](#) / [5. How to structure and document research data](#) / [5.3 The Readme-file](#)

5.3 The Readme-file

What is meant by documenting a dataset? And why is documenting a dataset important? In this video you will learn why good documentation of a dataset is crucial in order to avoid misinterpretation of the dataset.

How to write a Readme-file
What should be included?

- ✓ - Contact information to the dataset author
 - Include also author's ORCID
- ✓ - What the data set is about
 - Write a short description
 - Include information on project relations
- ✓ - File structure and naming syntax
- ✓ - Where to find which data => overview of the files
- ✓ - Information on updates to your data set

[Transcript of video "How to structure ...: Documenting your data - The Readme-file"](#)

Lessons learned:

- To document a dataset is to give a human readable introduction and explanation of what information the dataset holds.
- You document your dataset by creating a separate file usually called a Readme file.
- The information in the Readme file should make sure anyone are able to understand and interpret your dataset correctly, both now and also many years from now.
- You should start entering information into your Readme file early, and update the file as new information is obtained.
- The Readme file should supplement the information found in the dataset's metadata.
- The Readme file should be in plain a preferred format, either plain text with UTF8, or PDF/A.

Food for thought

Think through your own PhD project and the data you have collected, or plan to collect. What do you see as essential to include and explain in a Readme file, to make sure your dataset is understood correctly by outsiders?

25/06/2021



Module 1: exam quiz & certification

Final exam quiz

- If you get 80% or 24 correct answers



Certification M1

- generated by the Moodle



Module 2 - workshops & assignments

- Teacher material on the Moodle platform
- The local teachers decide which content and activities to use
- 6 online 2 (3) hours workshops (via Teams) + extra event + wrap up
- Break out rooms - working in small groups

Descriptio	24 Monday	25 Tuesday	26 Wednesday
		8:00-09:45	8:00-09:45
Session		#3: Structuring, documenting & metadata	#4: Data storage, file formats & FAIR principles
<i>Main lecturer</i>	The Module 2 starts at 10:00 on Monday	<i>Ivan Čmelo</i>	<i>Marcela Dendisová</i>
<i>Lecturer 2</i>		<i>Jan Vrba</i>	<i>Eva Hnatkova</i>
	10:00-12:00	10:00-12:00	10:00-12:00
Session	#1: The importance of RDM & open archiving	Czech Open Science Day @ National Technical Library	#6: Visualising, reusing/searching & citing research data
<i>Main lecturer</i>	<i>Eva Hnatkova</i>	<i>P. Doleček</i>	<i>Radek Cibulka</i>
<i>Lecturer 2</i>		Please use the following link to connect to this event: https://www.techlib.cz/en/84427-czech-open-science-day	<i>Eva Svobodová</i>
	13:00-15:00	13:00-15:00	13:00-15:00
Session	#2: The data management plan	#5: Sharing & licensing research data	#7: Wrap Up
<i>Main lecturer</i>	<i>Eva Hnatkova</i>	<i>Jiří Jiráť</i>	<i>Prof. Pavel Matějka</i>
<i>Lecturer 2</i>	<i>Robert Pergl</i>		

Example DMP

DSW online tool

	
Template Selection	✓
Detailed Export Settings	✓
Template Creation	✓
Template Styling	✓
Project Phases	✓
Suitable for Worldwide Use	✓

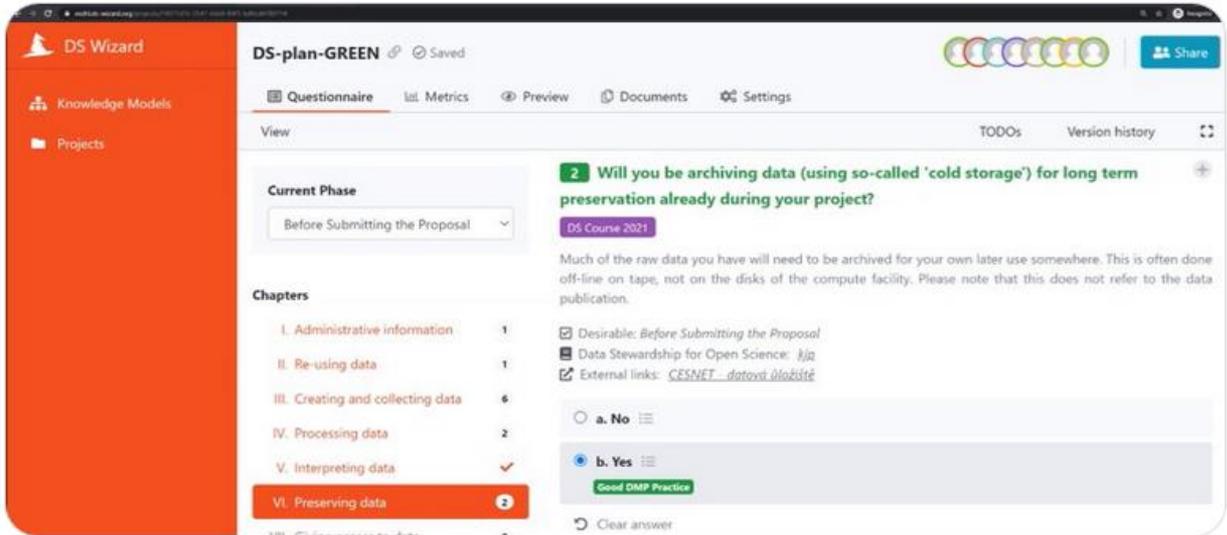
Robert Pergl Retweeted



Data Stewardship Wizard

@dswizard_org

Doctoral training running on UCT's own DSW instance: one of the first joint endeavors of CTU and UCT in promoting #datastewardship in the Czech Republic!



The screenshot shows the DSW Wizard interface for a project named "DS-plan-GREEN". The interface includes a sidebar with "Knowledge Models" and "Projects", and a main content area with a "Questionnaire" tab. The current phase is "Before Submitting the Proposal". A question asks: "Will you be archiving data (using so-called 'cold storage') for long term preservation already during your project?". The answer options are "a. No" and "b. Yes", with "b. Yes" selected. A "Good DMP Practice" badge is visible next to the selected answer. The interface also shows a list of chapters: I. Administrative information (1), II. Re-using data (1), III. Creating and collecting data (6), IV. Processing data (2), V. Interpreting data (checked), and VI. Preserving data (3).

Example: Data storage & FAIR principle - Zenodo

Upload type required ▾

 Publication <input type="radio"/>	 Poster <input type="radio"/>	 Presentation <input type="radio"/>	 Dataset <input checked="" type="radio"/>	 Image <input type="radio"/>	 Video/Audio <input type="radio"/>	 Software <input type="radio"/>	 Lesson <input type="radio"/>	 Physical object <input type="radio"/>	 Other <input type="radio"/>
---	--	--	--	---	--	--	--	---	---

Basic information required ▾

Digital Object Identifier
Optional. Did your publisher already assign a DOI to your upload? If not, leave the field empty and we will register a new DOI for you. A DOI allows others to easily and unambiguously cite your upload. Please note that it is NOT possible to edit a Zenodo DOI once it has been registered by us, while it is always possible to edit a custom DOI.

Reserve DOI

Publication date *
Required. Format: YYYY-MM-DD. In case your upload was already published elsewhere, please use the date of first publication.

Title *
Required.

Authors * ✕
Optional.

[+ Add another author](#)

Description *

License

Access right *

-  Open Access
-  Embargoed Access
-  Restricted Access
-  Closed Access

Required. Open access uploads to

License *

Module 3

- 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

Module 3 - workshops & assignments

One day workshop

Session 1 “Europe and Czech Republic – public sector” (11:00 – 12:30 CEST)

Topic: European, national and institutional level and their approach to administration and sharing of the research data.

Lecturers:

Gareth O'Neill (EOSC Policy & Strategy Leader, EOSC Future)



Principal consultant on Open Science at [Technopolis Group](#). Policy and strategy leader at EOSC Future. Adviser at [EOSC Association](#) for EOSC Secretariat. Ambassador for Open Access and Plan S at [cOAlition S](#). Doctoral candidate in linguistics at [Leiden University](#). Irishman between Amsterdam and Brussels.



Martin Svoboda (Director of Czech National Library of Technology in Prague – [NTK](#))

He graduated at Czech Technical University in computer engineering in 1965 and carried out research and development in text processing and information retrieval systems. As a director of NTK he negotiated “Big Deals” with key publishers for the entire Czech scholarly and R&D community, which resulted in the nation-wide [CzechELib](#) (National Centre for Electronic Resources) project and currently the “National Centre for Information Support of Research, Development, and Innovation” project. In 2020, he was nominated as a chief negotiator of transformative agreements for access to and publication of electronic information resources for Czech research. He served as a member of the [LIBER](#) Executive Board (2014-2020), currently is a representative of the Czech Republic in the [SCOAP3](#) project, a member of LIBER Architecture Group, ELAG Programme Committee and Journal of Documentation Editorial Board.



Luděk Matyska (Director, Institute of Computer Science; Head of ICS Management and Secretariat Centre CERIT-SC; Director of CERIT SC)

Session 2 “ORLEN Unipetrol” (13:00 – 14:30 CEST)

Topics:

1. DCS systems, data collection, archiving and protection
2. PI Osi Soft application - on-line visualization, collection and data mining Michal
3. Example of using operational data to evaluate the efficiency and performance parameters of catalysts
4. Discussion

Lecturers:

Tomáš Herink (ORLEN Unipetrol – Member of Board)

Michal Zbuzek (ORLEN Unipetrol)

Arnošt Křížan (ORLEN Unipetrol)



Session 3 “ZENTIVA” (14:30 – 16:00 CEST)

Topic: The third session will be devoted to a non-academic view - industrial "practice": How Zentiva works with research data, what is difference from academia, how research data management is connected with the overall concept of development and research in Zentiva.

Lecturers:

Marcela Tkadlecová

Obor fyzikální chemie na VŠCHT Praha
PhD z VŠCHT Praha
Dlouhé roky na ústavu analytické chemie v laboratoři NMR spolu s J.H.
Posledních víc než 10 let NMR ve vývoji v Zentivě a k tomu part time učení na ÚFCH.

Jaroslav Havlíček

Tomáš Pekárek



Implementation

- 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

DocEnhance platform

DocEnhance platform

A dynamic, adaptable & sustainable platform for online collaboration
(under development)

- Platform will be integrated into the existing European PhD Hub
- Training resources (courses, guidelines, reports, studies) will be freely available to all



<https://phdhub.eu/>

The aim is supporting innovative career oriented PhD training



DocEnhance

Data Stewardship

to be officially released by the end of 2022



DocEnhance



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

Horizon Europe - funding for OS



6 1 million Euros are available to fund projects that will reform #research & #innovation systems.

Check the #HorizonEU calls:

#Openscience

#Citizenscience

#Gender equality

#RRI

Submit your proposal by 23 September!
#EUResearchArea



https://rea.ec.europa.eu/news/first-horizon-europe-calls-proposals-are-now-open-2021-06-22_en