Transferable skills courses and employability beyond academia

PRIDE Network Conference

Eva Hnatkova

Charles University, Prague, 6 May 2022

This talk

- Transferable skills courses
- PhD career-tracking survey
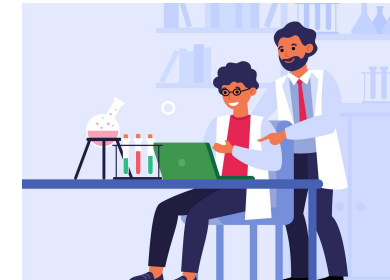
Available for FREE at the DocEnhance platform

They are designed to be easily adapted and integrated at HEIs

- Data Stewardship

- Career management & entrepreneurship

- Supervision

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DocEnhance

- EU project 2020 - 2022
- 19 partners

UiT The Arctic University of Norway

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DocEnhance

The aim

To develop and integrate **transferable skills training** into **existing PhD programmes** & increase **interaction with non-academic sector**

Broadening PhD expertise
through transferable skills

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How DocEnhance started …

The role of professionals in DE

7) Involved in projects related to doctoral training

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)

Vienna, April 2018

Shaping Doctoral Education – the Role of Professionals at Universities

PRIDE Network
ASSOCIATION FOR PROFESSIONALS IN DOCTORAL EDUCATION

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Transferable skills courses

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Design of 3 pilot courses
on transferable skills for doctoral candidates/supervisors

- **Data Stewardship**

- **Career management & entrepreneurship**

- **Supervision**

All modules include exam tests and certification

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Data stewardship

Aims of this course: to introduce PhD candidates the complexity of research data management from finding relevant data to publishing an own dataset

PhD candidates, learn:

- How to develop and use a Data Management Plan

- How to store and archive data

- How to use licenses, repositories, database platforms, data search engines, apps...

...and much more!

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Career management & entrepreneurship

Aims of this course: to acquire PhD candidates the competencies needed to advance their career and to become more entrepreneurial.

PhD candidates, learn:

- How to build a personal branding
- How to build a career plan and define personal development goals
- How to communicate and coach others effectively...

...and much more!

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PhD Supervision

Aims of this course: high-quality PhD supervision is the crucial tool that supports impactful doctoral education and prepares PhD candidates to contribute to research and society.

PhD Supervisors, learn:

- How to build a professional relationship with doctoral candidates
- How to define roles, functions and expectations through the Supervision process
- How to use Supervision models, tools, resources...
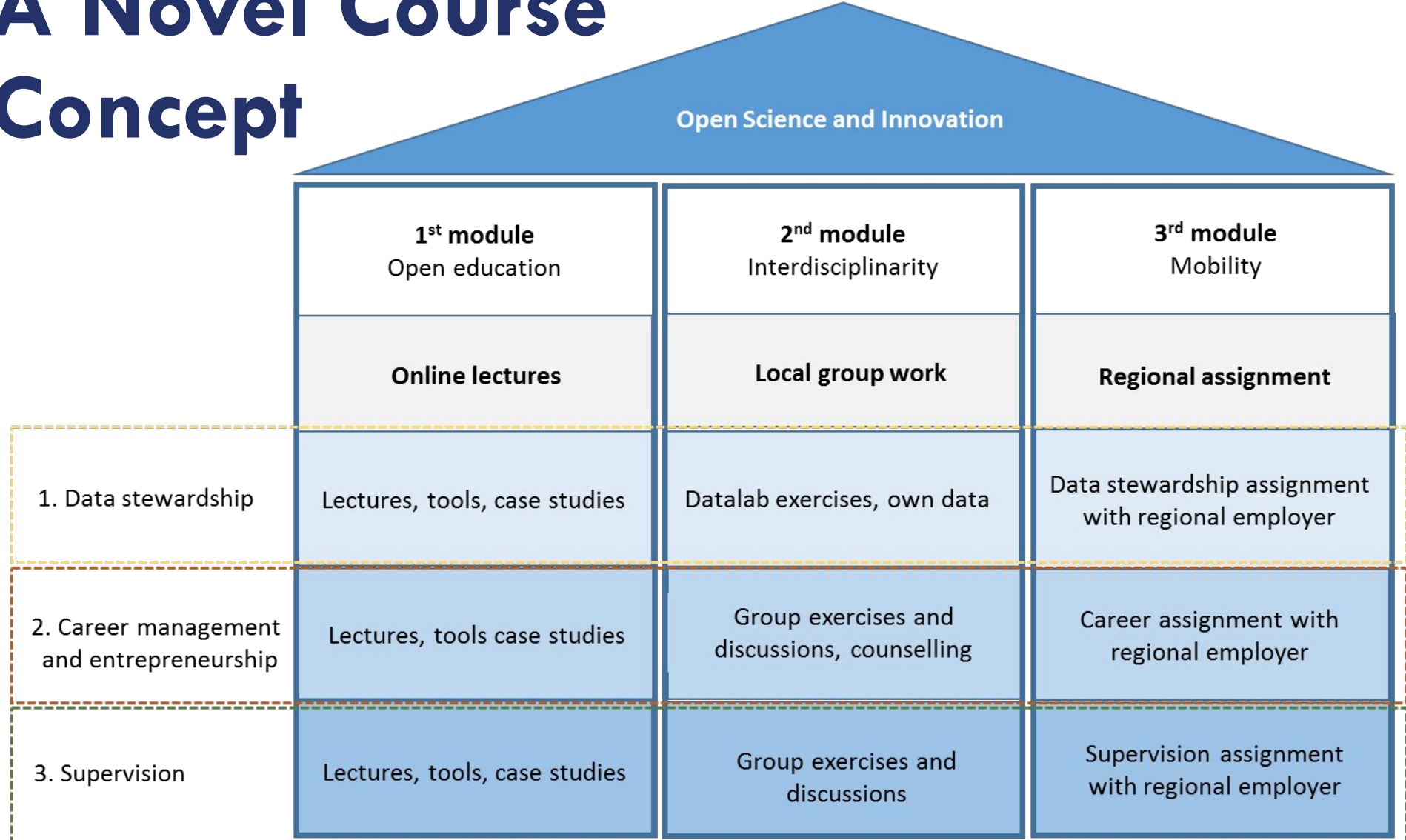
...and much more!

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A Novel Course Concept

	1st module Open education	2nd module Interdisciplinarity	3rd module Mobility
	Online lectures	**Local group work**	**Regional assignment**
1. Data stewardship	Lectures, tools, case studies	Datalab exercises, own data	Data stewardship assignment with regional employer
2. Career management and entrepreneurship	Lectures, tools case studies	Group exercises and discussions, counselling	Career assignment with regional employer
3. Supervision	Lectures, tools, case studies	Group exercises and discussions	Supervision assignment with regional employer

Open Science and Innovation

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Concept and methodology

Co-creation approach ➡ Skills intelligence ➡ Skills integration
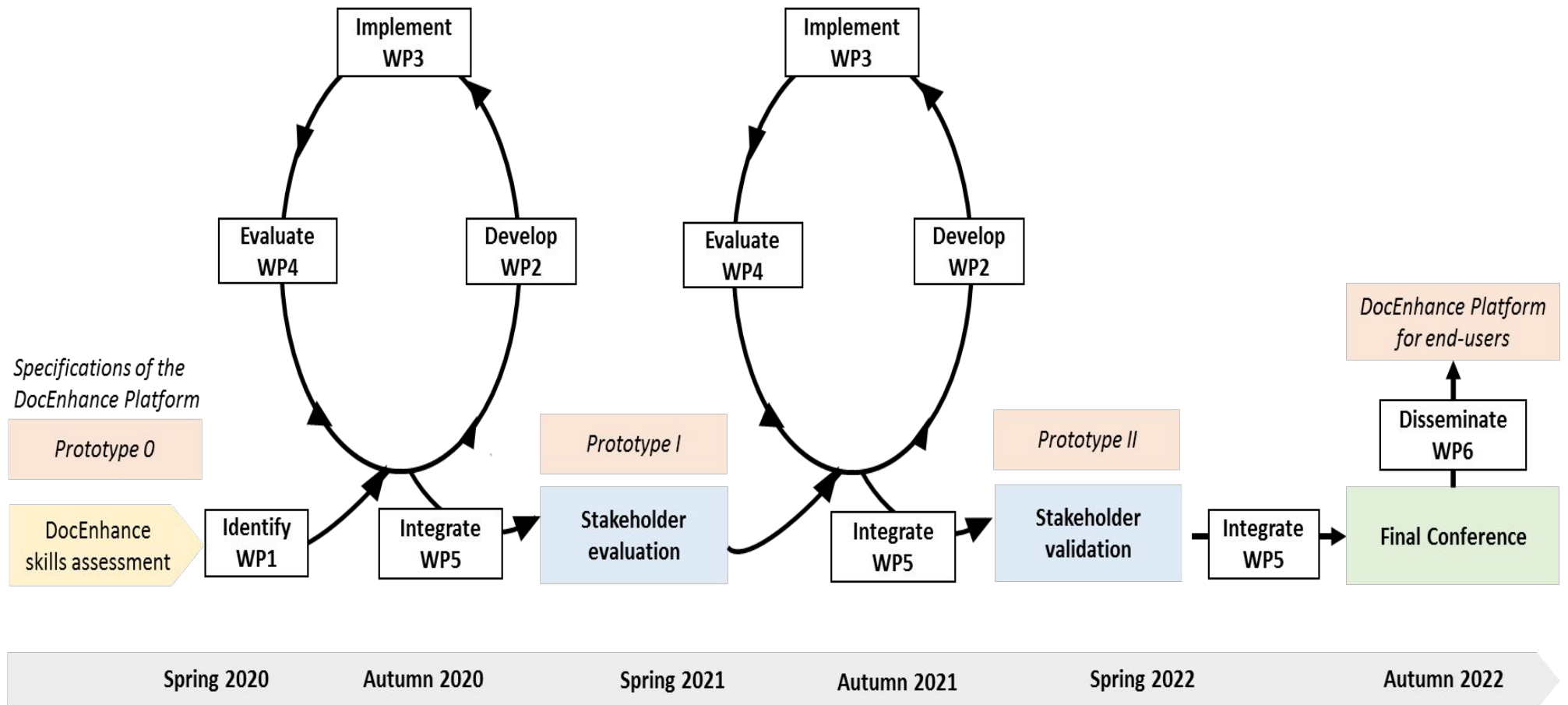
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3 pilot courses

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Data stewardship

This course was developed in 2020/2021 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](#)

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Data stewardship

Piloting course

University of Chemistry and Technology in Prague, Czechia

~ 25 PhD candidates

~ 8 teachers

Pilot - financial remuneration for active participation and subsequent feedback

Karlstad University, Sweden

~ 14 PhD candidates

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Data stewardship

MODULE 1	MODULE 2	MODULE 3
online lectures	workshops & tasks in local working teams	workshops & regional assignments with employers
• general introduction • basics of how to handle research data in a PhD thesis	• learning by doing • practical assignments • working in small groups • discussions • local resources • meet local demands **#Interdisciplinarity** **#Teamworking**	• 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 **#Inter-sectoral mobility**

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Data stewardship – Module 1

10 thematic issues

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** »

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Data stewardship – Module 1

Moodle

Data stewardship – Module 1

Exam quiz & certification

Final exam quiz
If you get 80% or 24 correct answers

⬇

Certification M1
generated by the Moodle

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Data stewardship – Module 2

Workshops & assignments

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

Description	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
Main lecturer	The Module 2 starts at 10:00 on Monday	Ivan Čmelo	Marcela Dendisová
Lecturer 2		Jan Vrba	Eva Hnatkova
	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
Main lecturer	Eva Hnatkova	P. Doleček	Radek Cibulka
Lecturer 2		Please use the following link to connect to this event:	Eva Svobodová
		https://www.techlib.cz/en/84427-czech-open-science-day	
	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
Main lecturer	Eva Hnatkova	Jiří Jirát	Prof. Pavel Matějka
Lecturer 2	Robert Pergl		

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Data stewardship – 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!!

https://phd.vscht.cz/home/pro-doktorandy/docenhance-data-stewardship-course

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Data stewardship

Feedback from participants at UCT Prague

1. The course was evaluated highly positively. All agreed that the course will benefit them in the future.

2. All PhD candidates agreed that such a course should be offered to PhD candidates at the very beginning of their PhD journey.

3. The PhD candidates most appreciated the insight within the private sector, which most of them had not encountered before.

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Career tracking survey

+ good practice guide for implementation

https://docenhance.eu/career-tracking/

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PhD Career-tracking survey

Methodology

Questionnaire: developed by ESF, 60-70 questions divided in 8 sections (doctoral education, skills, transition to first/next employment, employment & career related experience, intersectoral and geographical mobility and demographic details) launched in 2021 (4 weeks)

Participation: 9 EU universities

Target group: PhD holders who obtained PhD in the last 5 years (2016-2020). Each university identified the PhD holders over this period and established a list of individuals eligible to participate in the survey.

Responses: 2,290 PhD holders, overall response rate: 25 %

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PhD Career-tracking survey

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PhD employment by sector

37% in universities	**22%** in private sector
12% in research organisations	**10%** in health care
8% in the government	**11%** in other sectors

All findings from DocEnhance Career-tracking survey at www.docenhance.eu

PhD Career-tracking survey

Beyond academia

PhD holders work mostly as
- analysts
- specialists
- engineers
- medical positions
- teachers

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PhD Career-tracking survey

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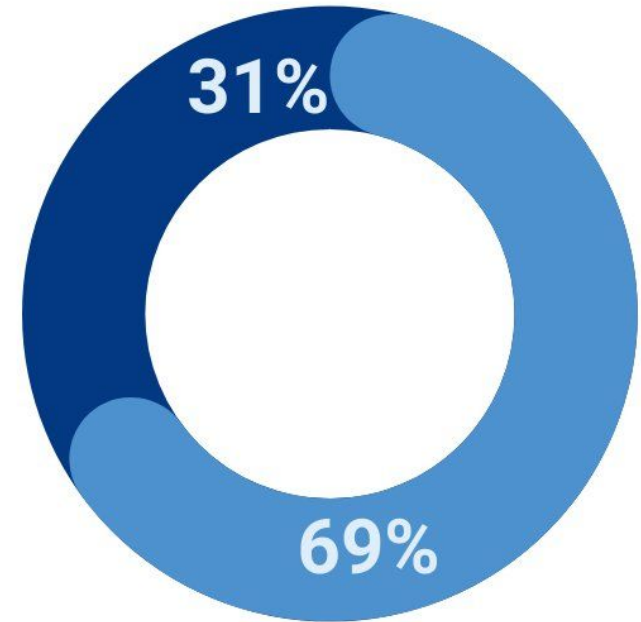## How many doctorate holders are engaged in research?

All findings from DocEnhance Career-tracking survey at www.docenhance.eu
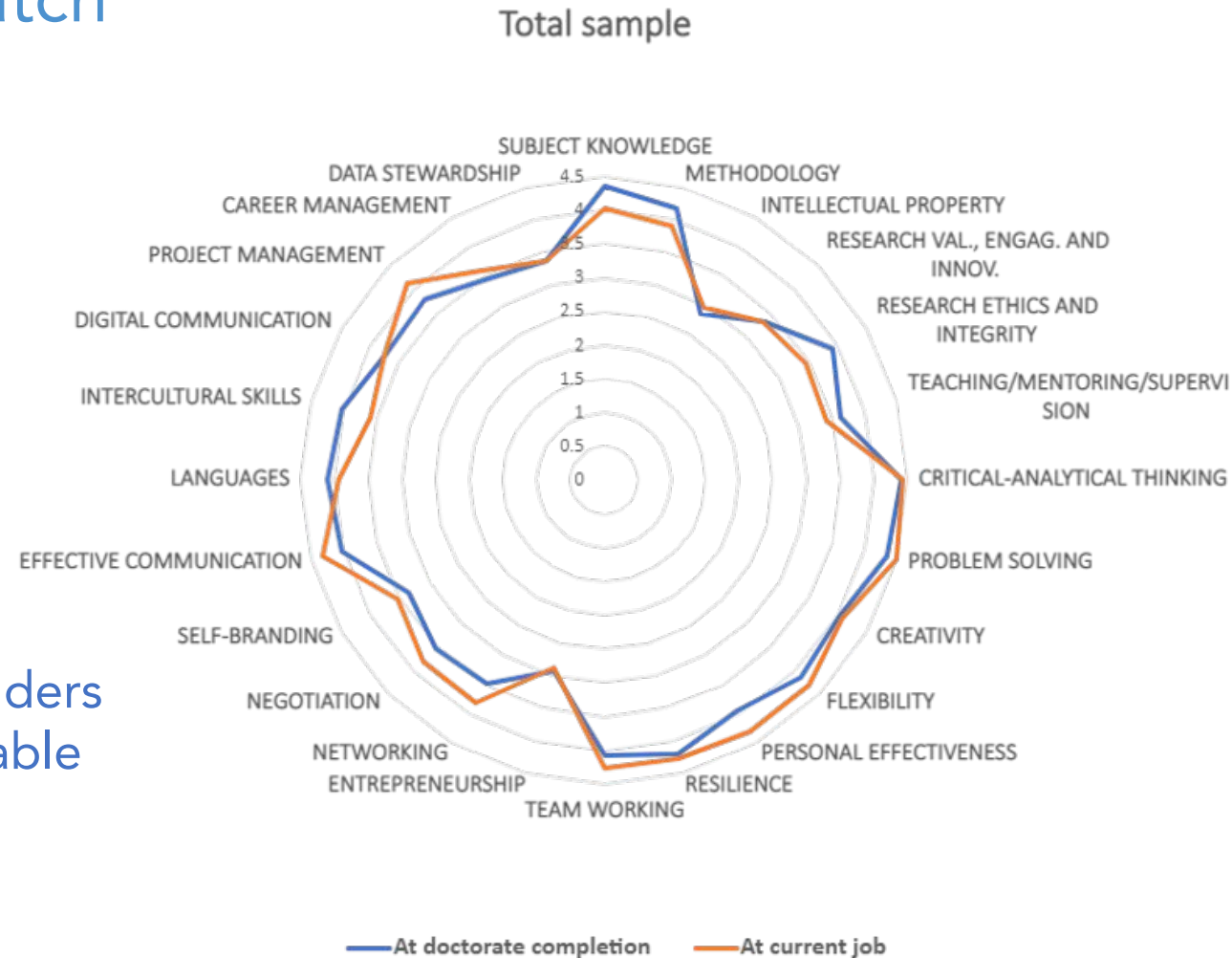
31%

69%

Work in research

Do not work in research

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Transferable skills

- ● Skills match

68% PhD holders had transferable skills training

Total sample

At doctorate completion — At current job

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The DocEnhance platform

By 📅 December 2022

- Training resources (courses, guidelines, reports, studies) developed by the project will be freely available

- Resources can be easily adapted to local needs and integrated into existing PhD programmes

- A dynamic network between academic and non-academic partners

- Based on existing platform: PhD Hub

https://phdhub.eu/

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The DocEnhance platform

The stakeholder validation workshop

- To **evaluate the DocEnhance platform and its content** by Internal and external stakeholders

- Wed **22 June 2022**, EUA-CDE Annual Meeting

- **Manchester**, UK

DocEnhance can **support** participants with **up to 750 Euro for travel/accommodation**. The formal invitation will be ready and sent out soon.

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The DocEnhance platform

Preliminary agenda: the stakeholder validation workshop

10:15-10:20	**Welcome** *Speaker tbc (EUA-CDE?)*
10:20-10:30	**The DocEnhance project** *Hanne Risan Johnsen, UiT*
10:30-11:00	**The DocEnhance Platform - a brief overview and feedback from stakeholders** *Speaker tbc (WP5)*
11:00-12:15	**Stakeholder discussions** *Break-out groups will be set up for each of the DocEnhance courses to be evaluated* *Break-out group 1: Supervision Course* *Moderators: tbc* *Break-out group 2: Data Stewardship Course* *Moderators: tbc* *Break-out group 3: Career Management and Entrepreneurship Course* *Moderators: tbc*
12:15-12:45	**Preliminary conclusions by Moderators**

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Find out more! - next steps

1. Go the **DocEnhance website** - https://docenhance.eu/

2. Subscribe to the **Newsletter** (at the bottom of webpage)

3. Follow DocEnhance on **Twitter** and **LinkedIn**

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