

Personas and learning paths for digitized research, non-computer scientists

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Knowledge for Tomorrow



What is digitized research?

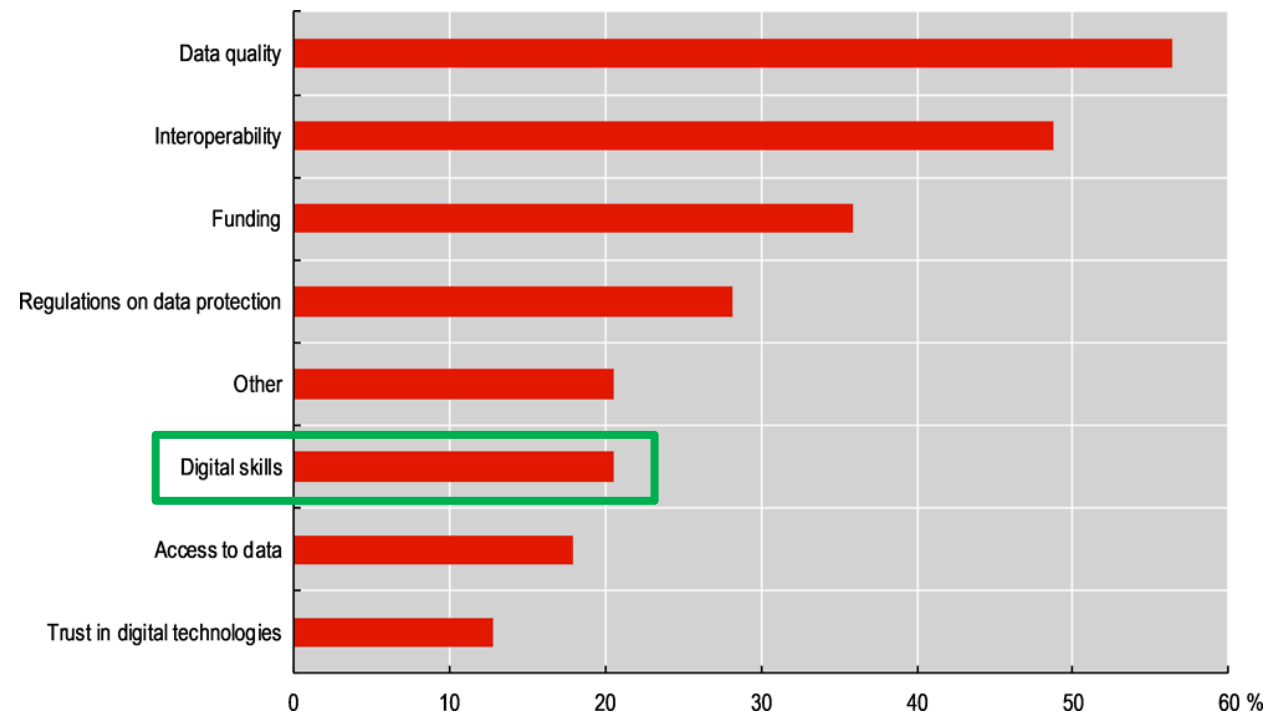


What's the problem?

“As scientific research and innovation increasingly leave a digital “footprint”, datasets are becoming ever larger, more complex and available at higher speed. At the same time, technological advances – in machine learning (ML) and natural language processing, for example – are opening new analytical possibilities.”

- OECD [The Digitalisation of Science, Technology and Innovation](#), 11 Feb 2020

- Lacking „Digital Skills“ is ranked „only“ 6th on OECD challenges (even after „Other“)
- But: Digital Skills also contribute considerably to:
 - data quality
 - interoperability
 - access to data
 - and also fostering „trust in digital technologies“



Main challenges facing DSIP (digital science and innovation policy) initiatives

Source: OECD survey of administrators of 39 DSIP systems in OECD countries and partner economies.

The takeaway

- **The challenge:**

- How to harness the “power of digitalization”?
 - Including how to keep up with these developments?
 - Including how to TEACH (domain experts) the foundations for these new methods?

- **The state of the art:**

- Unfortunately there is a **lack of structured learning paths** (besides rather inefficient “learning by doing”)
- As necessary (applicable) skills are **not** universal → necessary to identify “personas”
- These “personas” need learning paths designed for their **specific** needs



Our approach



The **aim** of this workshop is to adress the **first two** steps:



- Identify up to **5 most relevant groups in research** (e.g. researchers, research software-engineers, data scientists, or other), **in need for digital skills** and focusing on challenges like traceability, sustainability, method-knowhow, and many more and **generalize to typical personas** in these groups
- Define necessary **skillsets** for these personas



Workshop Agenda 1:30 – 5:00 pm

1:30 pm Check-In, Organizer Intro, Workshop Introduction

Identify personas

Coffee break

Detail personas & identify skillsets

Coffee break

First perspectives on learning paths

5:00 pm Summary & Feedback



Back-up



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Workshop Agenda

Time	Duration	
13:30	10	Check-In
13:40	10	Motivation and Introduction to Workshop
13:50	5	Workshop Agenda and Method
14:05	15	Group Work: Identifying personas
14:20	10	Consolidation of personas → Selection of interesting personas
14:30	15	Coffee break
14:45	60	Group Work: Detailed description of personas (30m), Identification of necessary skills (30m)
15:45	15	Coffee break
16:00	15	Presentation of selected personas
16:15	20	First perspectives on learning paths
16:35	20	Workshop Summary & Feedback
16:55	5	Farewell

