The Missing Data - The Relationship Between Legal Requirements and Open Research Data

Methodology

Researchers have to deal with many questions and doubts when it comes to the publication of research data. In particular regarding the presumed conflict between handling of research data and the issues of data privacy. The research presented here aims to investigate this conflict and to identify and test solutions, talking into account both differences between disciplines and between cultural perspectives. The poster provides an overview of the various barriers to the publication of research data collected through guided interviews with researchers with different levels of scientific experience. To consider differences between disciplines, researchers in learning analytics, medicine and climate impact research were interviewed. The different legal regulations and cultural factors are compared between Germany, Peru, India and China.

Step 1

Qualitative research

- Conduct guided interviews
- Analyze with Grounded Theory method
- Construct hypotheses

Step 2

Quantitative research

- Design of an online survey regarding the hypothesis
- Collect data using the online survey
- Evaluate data

Step 3

Implement findings

- Develop guidelines, recommendations and best practices
- Test best practices with a focus group



GERMANY

I would at least secure that some kind of information can be gained from the data. If that is not the case, you have to ask yourself why you even work on it.

Senior Scientist



There's really no such practice Senior Scientist



So I'm not confident publishing that to the repositories, because I'm not sure of the quality that it has.

Senior Scientist



I cannot take the risk of explosion [sic exposure] some data of others. Senior Scientist



So that the benefit was simply not clear.

Senior Scientist

So, our area is extremely competitive, and above all because the pharmaceutical industry is on top of it to find a drug in a publication that can be marketed and swell the bank accounts of its big capitalists, unfortunately.

Senior Scientist

[...] and I exactly don't know the current policy in India

Senior Scientist



Climate **Impact** Research

Until recently, it was not really a topic there [in the community] and there was no discussion about it. [...] and now that people are talking about it, some people are worried to give away their treasure.

Senior Scientist

Because otherwise there would be a lack of ethical principles which I believe - What happens is that there is a lot of mistrust in that sense

Senior Scientist

One of the main reasons is if you don't have a culture of publishing

Junior Scientist

So... you need to buy a storage space. And you need pay money. Senior Scientist

Table 1:

Excerpts from the guided interviews with the corresponding codes.

The results from Peru, India and China are currently being evaluated.

Findings

The emerged codes from the guided interviews with scientist in learning analytics in Germany indicate, that the EU General Data Protection Regulation (GDPR) from May 2018 may be a factor that intensifies the conflict between sharing research data on the one hand and data privacy on the other. In comparison, the GDPR does not seem to have muchinfluenceonthedatapublicationbehaviourinmedicineorclimateimpactresearch in Germany. The concerns here are mostly competition and no visible added value.

	Learning Analytics	Medicine	Climate Impact Research
No. of junior scientists	2	3	1
No. of senior scientists	10	7	8
No. of institutions	8	6	7
Total no. of Interviews	12	10	9

Table 2:

Sampling for the guided interviews.

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