

# swissuniversities

Swiss Research Data Day 2020, October 22

## National Open Research Data Strategy

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On behalf of the ORD Project group

## Composition of the ORD Project Group

- Silke Bellanger (UNIBAS)
- *Isabel Bolliger (SNF) – co-lead*
- Christine Choirat (EFL/SDSC)
- *Martin Jaekel (ZHAW) – co-lead*
- Christian Lovis (UNIGE)
- Henry Lütcke (ETHZ)
- Mark Robinson (UZH)

With the support of Sari Amstutz (swissuniversities)

## ORD Convention with the SERI

- Elaboration of a National ORD Strategy following the Open Access Strategy (2017)
- Elaboration of an ORD Action Plan and the ORD phase of the «Open Science program» of swissuniversities
- Elaboration of a «basic report» concerning the ORD infrastructures and costs in the current swiss ERI system
- Process driven by the Delegation Open Science of swissuniversities. An «accompanying group» formed by the signatories of the Convention (SERI, swissuniversities, SNF and the two ETHs) is acting as «political» group.
- The elaboration of the Strategy, Action Plan and basic report is done by a project groupe composed by the Delegation Open Science

May 22, 2019

Report Open Access

# Open Research Data: Landscape and cost analysis of data repositories currently used by the Swiss research community, and requirements for the future

 von der Heyde, Markus

The study was jointly commissioned by the SNSF and swissuniversities in 2018.

In light of the SNSF's decision to make sharing data from funded projects mandatory in 2016, this study examined the sharing and reuse behaviour of researchers in the Swiss community in 2018. Since it was to be conducted across all disciplines throughout Switzerland, the range of the questions was very broadly designed and questions from earlier international studies were used for comparability. Additionally, a second questionnaire addressed international repositories in order to learn about their perspectives and plans for future development. The results were analyzed using statistical methods and can be regarded as representative.

Generally, the motivation and concerns for sharing data and reuse in the Swiss community are not different from other scientific communities. Differences in sharing and reuse behaviour are found according to the disciplines of the researchers, which were assessed using the bepres taxonomy. Different methods used by the researchers did not result in different sharing behaviour, but in where the data was shared. While the sharing is done equally in general repositories and smaller disciplinary repositories, of which a great number exist, the researchers prefer to use disciplinary repositories if they want to reuse data.

Overall, about a third of the Swiss research community share data in repositories. The main reason for not sharing was researchers' plans to publish their results first. Also, many participants claimed to have a different concept of data; while we tried to define terms carefully, apparently there is a need for more discipline-specific information and discussion on the topic. Future requirements for services from the Swiss community are not yet met by the international repositories' plans. Several recommendations on the future SNSF governance on data sharing are proposed to conclude the study.

## Contact

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<https://zenodo.org/record/2643460#.X5FfFpJxf19>



## Open Science National Strategy 2021-2028

**OPEN ACCESS**  
Strategy & Action Plan  
2018-2024

**OPEN RESEARCH DATA**  
Governance Strategy  
2021-2028

### *Open Science National Action Plan 2021-2024*

*Program Open Science*

*Sustainable Funding (for FORS, DASCH, SPHN)*

*Open Science National Action Plan 2025-2028*

## Project milestones

**2020 July-November:** Stakeholder consultation on the national ORD strategy

**October:** Communication of the background report

**December:** Validation of the national ORD strategy by the Open Science delegation

**2021 January:** Validation of the national ORD strategy by the Higher Education Council

**January-April:** Stakeholder consultation on the national ORD action plan

**May:** Validation of the ORD action plan by the Open Science delegation

**November:** Validation of the ORD action plan by the Higher Education Council

<https://www.swissuniversities.ch/en/topics/digitalisation/open-science>

## Process

- Expert interviews
- Questionnaires to stakeholders
- Working groups
- Panels sessions
  - What is the recent landscape of RD management?
  - What are the best practices, valuable infrastructures and services heavily used?
  - What is not used, not needed?
  - What are the biggest challenges, needs and gaps?
  - What would be the ideal ORD landscape in Switzerland?
  - FAIR and/or Open Research Data – what should we aim at?  
What is best addressed by whom - on an individual, disciplinary/academy, institutional or national level?
  - What investments would be the most promising? Infrastructure, quality of data, education, research support? Generic, discipline specific?

Berne, 20 septembre 2019  
Chambre des hautes écoles universitaires  
Consultation sur la stratégie Open Science: réponses des hautes écoles universitaires

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**Consultation sur la stratégie Open Science: réponses des hautes écoles universitaires**

La Chambre des hautes écoles universitaires remercie la coordination du projet pour la possibilité de prendre position sur le projet de Stratégie Open Science. Vous trouverez ci-dessous les réponses que nous avons obtenues de la part de 9 HEU ainsi que de 2 établissements de recherche du domaine des EPF (PSI et WSL).



## Proposal – National ORD Strategy (I)

### Vision

“By facilitating the access and reuse of the scientific material, Open Research Data enables better science for the whole society. Therefore, the swiss scientific community is committed to adopt the international practices regarding the Open and FAIR principles.”

### What is Open Research Data

- Open data has defined by EU
- FAIR Data has defined by FAIR principles
- Metadata catalogues

## Proposal – National ORD Strategy (II)

### Guiding principles

- FAIR
- Reproducible Research / Transparency
- As open as possible and as protected as necessary
- Awareness/protection of the value of the data
- Disciplinary diversity / different speeds / collaborations
- Connected to national and international ecosystem

## Proposal – National ORD Strategy (III)

### Objectives

- Open Research Data practices and skills are rewarded and taught, becoming the ‘new normal’
- Standards, tools and services allow researchers to find, access, reuse and combine datasets
- Sustainable and federated infrastructures enable open sharing of scientific datasets
- The connectivity to national and international level is assured

## Proposal – National ORD Strategy (IV)

### Action fields

- National coordination/governance
- Efficient and long-term funding
- Alignment to international standards and action
- Communication, education and awareness raising
- Enabling communities to manage data publication and curation
- Incentives and rewards
- Ethical and legal aspects

## Main results of the ORD Survey (I)

<b>Policies and Monitoring : Basic Policies</b>	
Pol-Umbrella	Majority of institutions do not have it or have planned it (63%)
Pol-OA	The large majority of institutions have it or have planned it (79%)
Pol-ORD	The large majority of institutions have it or have planned it (67%)

<b>Policies and Monitoring : Additional Policies</b>	
Pol-RDMP	Majority of institutions have it or have planned it (63%)
Pol-Longterm	The large majority of institutions have it or have planned it (65%)
Pol-FAIR	Majority of institutions have it or have planned it (61%)

<b>Policies and Monitoring : Monitoring OS</b>	
Mon-OA	The large majority of institutions have it or have planned it (73%)
Mon-RDM	Majority of institutions have it or have planned it (56%)

## Main results of the ORD Survey (II)

<b>Infratstructures : Current e-Infrastructures</b>	
Storage	The large majority of institutions have it (74%)
Publications	The large majority of institutions have it (67%)
HPC	Almost half of institutions have it (47%)
Repositories	The large majority of institutions have it (72%)

<b>Infratstructures : Planned e-Infrastructures</b>	
Storage	Majority of institutions have planned it (53%)
Publications	Almost half of institutions have planned it (49%)
HPC	One third of institutions have planned it (33%)
Repositories	Majority of institutions have planned it (51%)

<b>Services</b>	
DMP	The large majority of institutions are offering or have planned some (74%)
Publications	The large majority of institutions are offering or have planned some (72%)
RDM	Majority of institutions are offering or have planned some (59%)
HPC	Almost half of institutions are offering or have planned some (49%)

## Main results of the ORD Survey (III)

- The ORD topic is in continuous evolution, according to the needs of users and the demands of the institutions
- Expenses in terms of infrastructure and human resources are important and must be taken into account in the national ORD strategy. Available resources can sometimes be limited
- Closer collaboration between institutions on Open Science services is encouraged.
- A centralized Swiss platform on Open Science could be useful for exchanging information and experiences.
- Legal issues related to the ORD must be taken into account; a clear regulatory framework must be given to the institutions.
- Some areas of research work with data that are not easily anonymized in relation to other data (e.g. videographed interactive data of natural persons). These areas should not be negatively impacted by ORD efforts.
- National data infrastructures should be driven by research disciplines, by researchers

## Next steps

- Finalization of the Strategy by the end of the year
- Consultation of the community in early 2021
- Adoption of the Strategy in Spring 2021

### *In parallel*

- Elaboration of the “basic report”
- Elaboration of the Action Plan



## Questions?

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