

Open Research Data @SNSF

The SNSF policy on ORD

Future Perspectives



SWISS NATIONAL SCIENCE FOUNDATION



The Impact of Open Research Data

- Accelerate scientific discovery
- Improve reproducibility
- Speed up innovation
- Improve citizen engagement in research
- More comparative and transnational research; access in developing countries

The SNSF Open Research Data Policy (1)



The SNSF values research data sharing as a fundamental contribution to the **impact**, **transparency** and **reproducibility** of scientific research. In addition to being carefully curated and stored, the SNSF believes research data should be shared as openly as possible.

For information: http://www.snf.ch/en/theSNSF/research-policies/open_research_data/



The SNSF Open Research Data Policy (2)

- **Data Management Plans** (DMP) are a **formal requirement** at project submission.
 - *applicants need to give thought to management of their data*
- DMPs are shared on **P3** (SNSF's **public database**) once the project has ended
 - *Open DMPs at end of funding period: community exposure and control*
- SNSF expects **published data** to be shared on **public repositories**: as soon as possible, but at the latest at the time of publication of the respective scientific output.
 - *publicly funded data are open to public*

Ethical, confidentiality, legal or technical issues can be mentioned in the DMP; the SNSF takes these comments into account

The SNSF Open Research Data Policy (3)



- Repositories need to be digital and conform to the **FAIR data principles**: data sets are **F**indable, **A**ccessible, **I**nteroperable and **R**eusable.

→ selection criteria for repositories

- SNSF contributes with **CHF 10'000/grant** to data preparation efforts/services and data uploading costs. Service or repository providers have to be **non commercial entities**.

→ SNSF always pays costs of data preparation

→ no other payments if the repository is commercial

- SNSF values data sharing when assessing the scientific output of researchers (**DORA**)

The FAIR Data Principles



FAIR principles: data sets are prepared so that they are

Findable: _Attribution of Persistent Identifiers (e.g. DOI)
 _Provide metadata
 _Data set indexed in a searchable resource

Accessible: _Data access and location is clearly described and defined
 _Metadata accessible even when data access is restricted

Interoperable: _Use of standard/controlled vocabularies
 _Qualified references to other data present

Reusable: _Metadata is richly described
 _Data usage license is defined
 _Domain-specific community standards used?

non-exhaustive list; for more information see: FAIR Principles: [Wilkinson et al., 2016. Scientific Data](#)

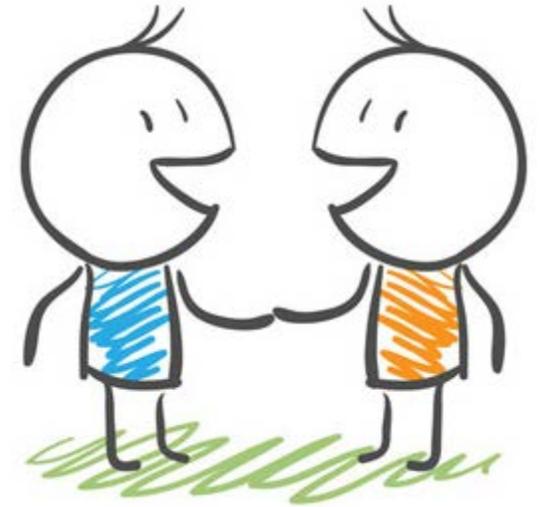
ORD – open questions and challenges

- University-based, local repositories / national repositories / international bodies for repositories?
- “One type fits all” repositories or thematically oriented domain repositories?
- Coordination of repositories; European Open Science Cloud
- Long-term funding of these infrastructures
- Today’s realities: significant increase of costs for building capacities and infrastructures (data stewardship, open lab books, data life cycle)



Next steps @SNSF

- Introduce requirement of DMP in all instruments of the SNSF
- First evaluation of DMPs of proposals funded in Div I-III
- Collaboration with Science Europe
- Collaboration with the EOSC initiative
- Collaboration with swissuniversities: concept for repositories in CH
- Multi-annual plan SNSF: concept on SNSF actions for fostering repositories



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Thank you for your attention

