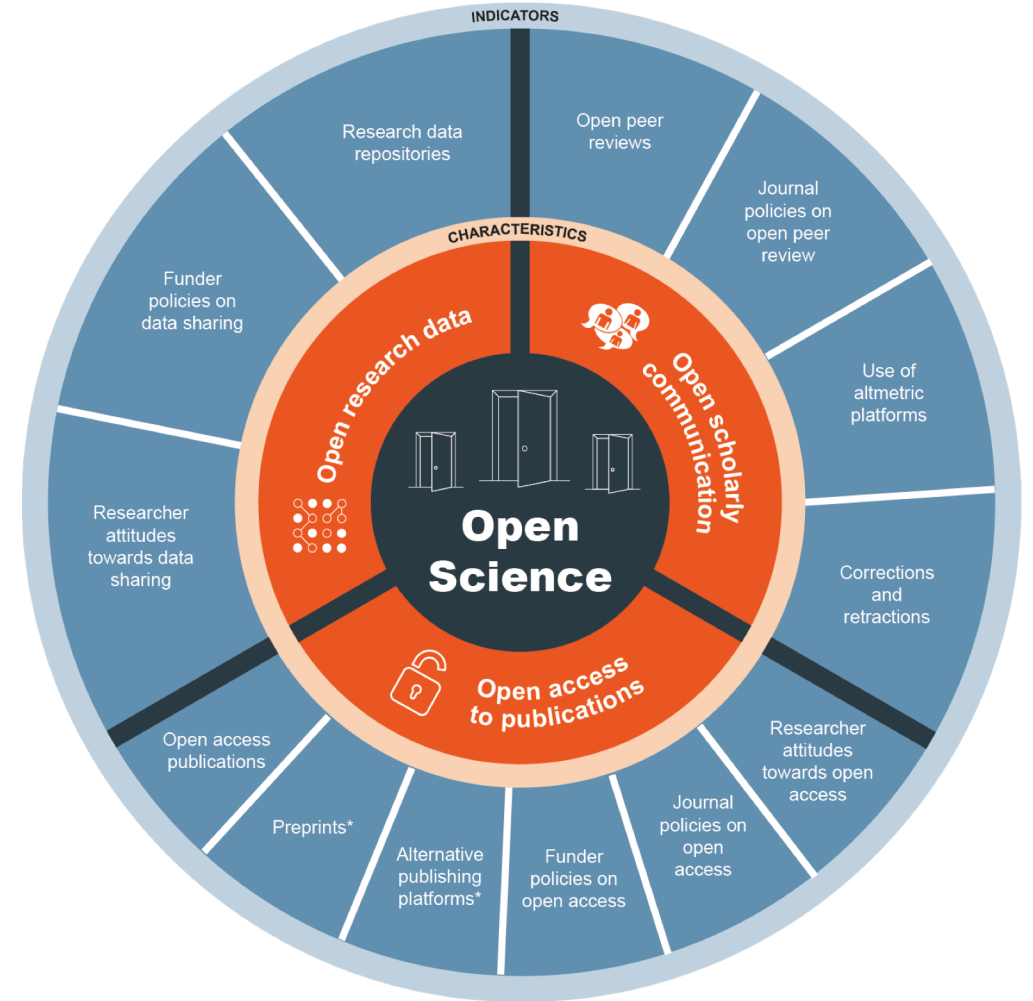# Open Access & Open Research Data at SNSF

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Open Science and Science Culture

«**Open science** is about the way researchers **work**, **collaborate**, **interact, share resources and disseminate results**. A systemic change towards open science is driven by new technologies and data, the increasing demand in society to address the societal challenges of our times and the readiness of citizens to participate in research.»

Amsterdam Call for Action, p. 4.

EU Open Science Monitor

Open Access: National Context

Swiss National Open Access Strategy

- 100% of all scholarly publication activity in Switzerland OA by 2024

- 100% scholarly publications funded by public money must be freely accessible on the internet.

- Landscape with a mix of OA models

EU objectives as a benchmark

- 100% of scholarly publications OA by **2020**

SNSF OA policy today

- **General requirement:** self-archiving of publication in an institutional or discipline-specific repository after publication by a publisher, embargo period max. 6 months

- **Specific requirement:** up to CHF 3'000 (APC) for articles in peer-reviewed gold-OA-journals as eligible cost

	Okt 2013 – Aug 2015	Sept 2015 – Jan 2017
Number APC / year	21	82
Sum APC / year	CHF 29'000.-	CHF 145'000.-
average APC	CHF 1'350.-	CHF 1'771.-

SNSF OA Strategy 2020

As decided by the Presiding Board of the National Research Council in March 2017

all (100%) publications out of SNSF-funded projects **Open Access** available by **2020**

- ➢ **unrestricted access** and **free of charge**

- ➢ Goals in line with Open Access strategy of **European Union (2020)**

- ➢ Goals more ambitious than Swiss **National Open Access Strategy (2024)**

Open Research Data

Die Grundsätze des SNF und seine Massnahmen

SNSF policy on Open Research Data: background & aims

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.

Funding Regulations Article 47b

«data collected with the aid of an SNSF grant must be made available to other researchers and integrated into recognized scientific data pools»

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Open Research Data@SNSF: 3 enabling measures

Starting with project funding as of October 1st, 2017

- Submission of data management plans
- Cost contributions
- Best-practice workshops

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Knowledge is the key to the future

Data Management Plan –
part of project submission

- A Data Management Plan (DMP) is integral part of the submitted proposal, starting at submission date October 2017.

    → DMP is a formal requirement

- DMPs are not part of the review process (no access for external reviewers).

- At project submission, DMPs are considered as drafts.

Data Management Plan –
flexible and open to arguments

- The questions of the DMP are broad enough to capture the needs of different research communities. The SNSF only defines minimal standards for its structure and contents.

- Applicants can justify in the DMP, if data cannot be shared or an embargo period is needed

  → ethical, legal, copyright, confidentiality or other clauses
  → some examples: privacy issues, field specific needs or
     intellectual property issues

- Applicants can also explain in the DMP, if there are any other issues linked to data sharing.

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Data Management Plan: structure

1 Data collection and documentation

    1.1 What data will you collect, observe, generate or reuse?

    1.2 How will the data be collected, observed or generated?

    1.3 What documentation and metadata will you provide with the data?

2 Ethics, legal and security issues

    2.1 How will ethical issues be addressed and handled?

    2.2 How will data access and security be managed?

    2.3 How will you handle copyright and Intellectual Property Rights issues?

3 Data storage and preservation

    3.1 How will your data be stored and backed-up during the research?

    3.2 What is your data preservation plan?

4 Data sharing and reuse

    4.1 How and where will the data be shared?

    4.2 Are there any necessary limitations to protect sensitive data?

    4.3 I will choose digital repositories that are conform to the FAIR Data Principles. [CHECK BOX]

    4.4 I will choose digital repositories maintained by a non-profit organisation. [RADIO BUTTON yes/no]

    → If the answer is no: "Explain why you cannot share your data on a non-commercial digital repository."

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Data Management Plan – Life cycle

- A plausible DMP is a condition for the release of the funds.

- DMPs are editable: Researchers have the possibility to update the content of their DMP at any time during the funding period of the research project.

- Once SNSF funding has ended and the final scientific report has been approved, the DMP cannot be modified anymore.

- The DMP is shared on P3 (SNSF's public database) at the end of a project.

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Data sharing on FAIR repositories

- SNSF requests <u>data underlying a publication</u> to be shared. They need to be shared as soon as possible, but at the latest at the time of publication of the respective scientific output

- Additional data can be shared if the researcher wishes to do so.

- Repositories need to be conform to the FAIR data principles.

  FAIR data principles : Standards ensuring that data sets are

  Findable, **A**ccessible, **I**nteroperable and **R**eusable.

- SNSF provides guidelines for assessing the suitability of repositories and examples of suitable repositories.

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Data sharing – cost contributions

SNSF contributes to data preparation effort/services and data uploading costs. Service or repository providers have to be non commercial entities.

- A max cost contribution of CHF 10'000 per grant is installed for

    - ❑ data uploading (incl. validating, indexing) and

    - ❑ related data preparation costs (prior to and for upload only).

- Limit can be exceeded, if justified.

- Cost contributions for data related to research funded by the SNSF

- No cost contributions to data downloading and to commercial repositories

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Open Research Data: learning together

- Workshops for best-practice exchange on open research data sharing will be supported within the scientific exchanges instrument.

- Continuously updated information on SNSF website

Contact: **ord@snf.ch**

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