



National coordination of open access to research data

FOCUS ON OPEN SCIENCE

CHAPTER XXXII: STOCKHOLM

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2021-06-18

Vetenskapsrådet

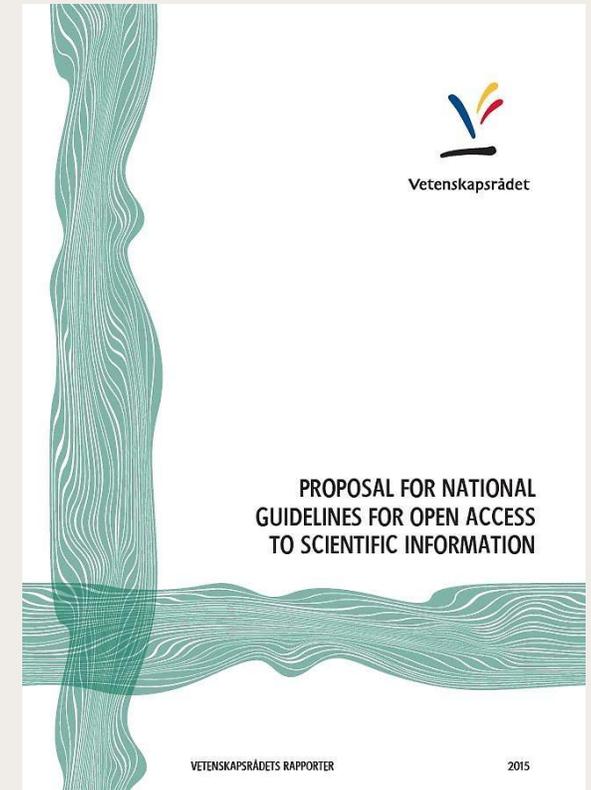


National coordination from a EU perspective

- Since 2017, the Swedish Research Council has had the task of coordinating the national work of introducing open access to research data.
- In 2021, the assignment was updated and extended. The SRC should also **promote** and **assess** the national work with open access to research data.
- The goal is that the transition to open access to research data should be achieved by latest 2026

EU perspective:

- Directive 2019/1024 of the European Parliament and of the Council of 20 June 2019 on open data and the re-use of public sector information (PSI)
- The European Open Science Cloud (EOSC - an open and virtual environment with services for storage, management, analysis and re-use of research data)





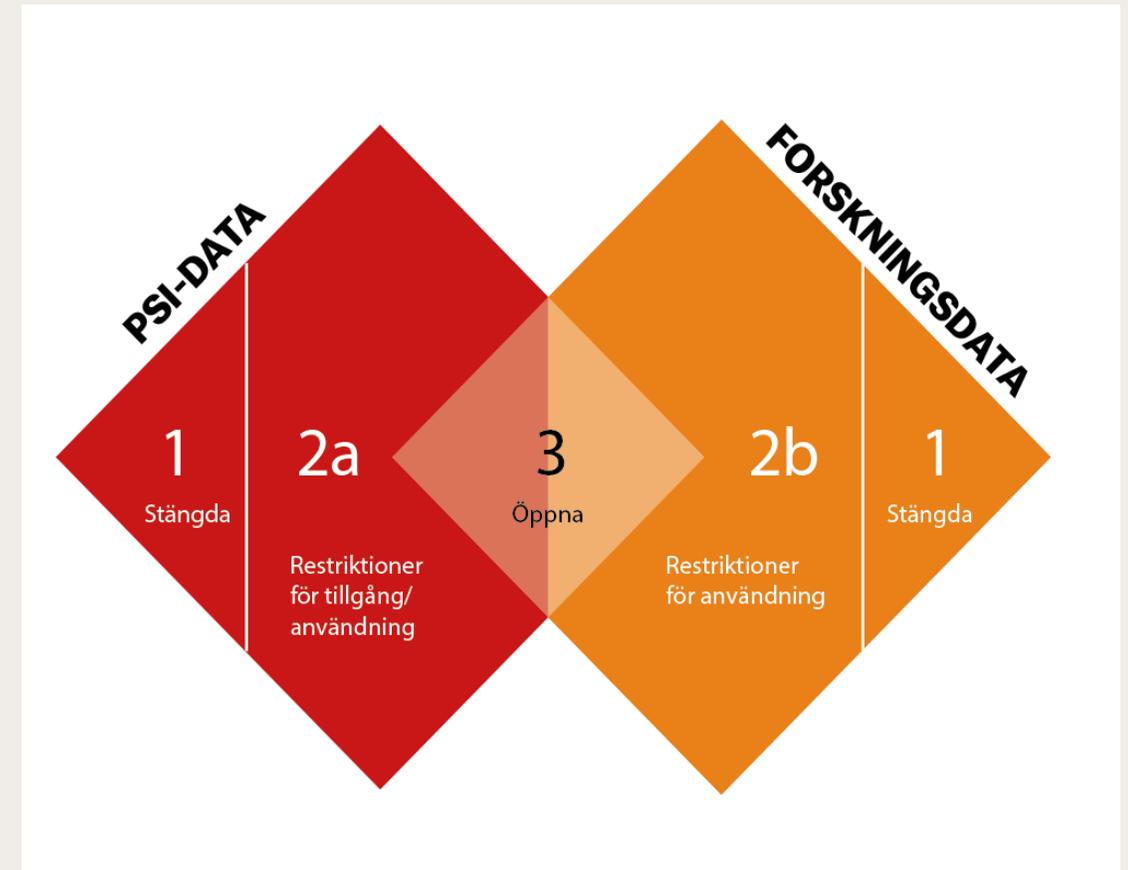
(Research) data

- Science is continuously becoming more data-dependent
- The amount and complexity of data is growing “exponentially”
- Research data is any information that has been collected and/or created to validate original research findings
 - Observational data
 - Experimental data
 - Simulation data
 - Derived or compiled data
- Although usually digital, research data also includes non-digital formats such as laboratory notebooks and diaries



Open access to data

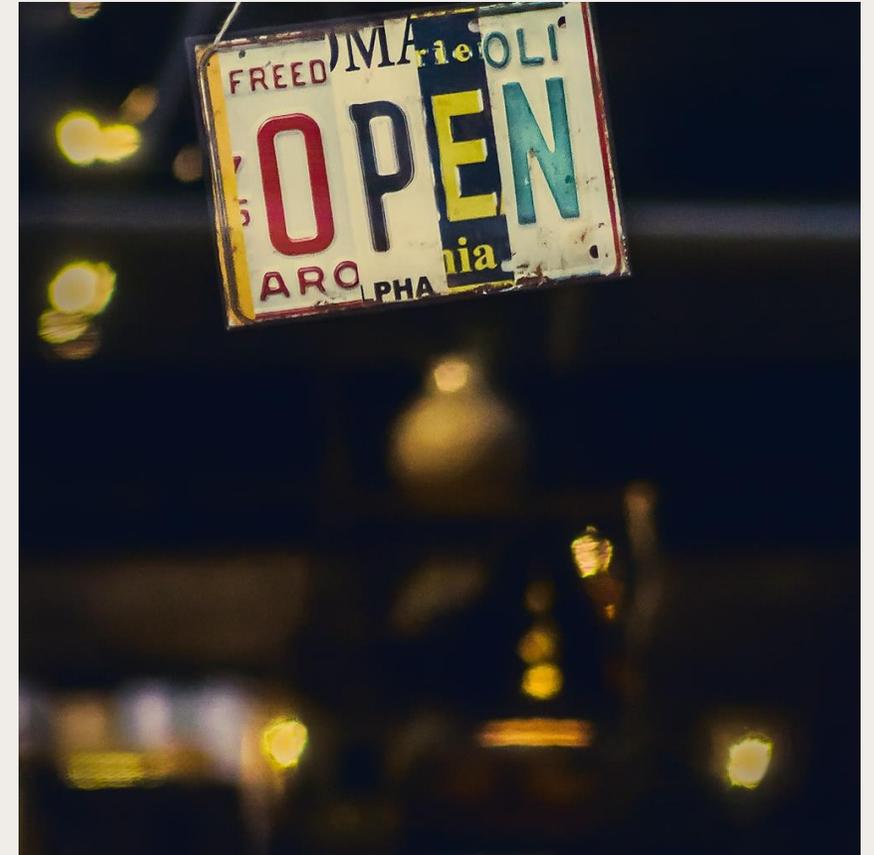
- Information technology makes it possible to store and make data available to researchers across the world
- Open access to research data means that data collected and/or created during the course of research shall be published (under the FAIR principles) with free access via the internet without any other restriction than to cite the data source
- Other data than research data (such as PSI-data) is also an important source of information in the research process





Why open access to (research) data?

- Open research data facilitate the reproducibility and transparency of scientific results and thus the quality of science
- Open research data gives the opportunity to effectivise research by building on existing data to generate new knowledge and innovation
- Open research data facilitates their citability and thus enhances the scientific reputation of the authors





How to achieve open access – good data management

Good data management helps ensure that researchers share their data in a FAIR way (findable, accessible, interoperable, and re-useable)

Core requirements for good data management

1. Description of data — reuse of existing data and/or production of new data
2. Documentation and data quality
3. Storage and backup
4. Legal and ethical aspects
5. Accessibility and long-term storage
6. Responsibility and resources





The European Open Science Cloud

The European Open Science Cloud (EOSC) is an initiative from the European Commission for a joint, open and virtual environment for FAIR and open research data. EOSC activities include:

- **Developing** joint frameworks, standards, tools, and infrastructural services for collaboration and sharing FAIR research data
- **Federating** existing infrastructures, so that research data can be linked together, shared and used across disciplines and national borders
- **Normalizing** Open Science practices by ensuring that practices and skills are rewarded and taught



**EUROPEAN OPEN
SCIENCE CLOUD**



The European Open Science Cloud, cont.

The Swedish Research Council is a member of the EOSC Association, and has been appointed the 'mandated organisation' by the Swedish Government. We focus on:

- **Representing** national interests and stakeholders in the EOSC Association
- Increased **coordination** on issues of open access and FAIR
- Formulating **recommendations** and principles for open access to research data, anchoring and coordinating work on interoperability
- Contribute to **developing** standards and sharing information about best practice at the national level





What have we achieved so far

- Recommendations on open access
- Criteria for FAIR research data
- Data management plans
 - Introduction of a template
 - Ensuring access to a digital tool for DMPs
 - Requirements for data management plans for projects funded by SRC
- EOSC
 - Establishment of a national reference group.
 - Engagement in EOSC Governance and Advisory Groups



Open access to research data

Open access to research data means that data collected and/or created during the course of research shall be published with free access via internet. The Swedish Research Council is coordinating Sweden's work on introducing open access to research data.

- [The Swedish Research Council's recommendation](#) →
- [European Open Science Cloud - EOSC](#) →
- [Progress in the work of implementing open access to research data](#) →
- [FAQ on open access to research data](#) →

The purpose of open access to research data is to ensure that data that has been collected and/or created during the course of the research can be shared and reused.



In focus 2021

- Driving policy issues and developing guidelines
- Promote cultural change and increase knowledge
- Data management and infrastructural conditions
- Provide information about laws and regulations
- Incentives for and effects of open access
- International perspectives

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