Ways to Open Science
Open Research Infrastructures
and the role of repositories

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WAYS TO OPEN SCIENCE

OPEN RESEARCH INFRASTRUCTURES
AND THE ROLE OF REPOSITORIES

OPEN LICENCES

Open licences allow the reuse of research without any restrictions.

OPEN PEER REVIEW

Authors and referees are no longer anonymous; their identities and the exchanged views are open.

OPEN METHODS

OPEN DESCRIPTION OF PROCESSES

Open methods should be described, compared, reproducible and reusable.

OPEN ACCESS POLICIES

Open Access Policies are required to ensure that research publications are available in open access repositories and are citable and downloadable.

OPEN DATA

Open data are freely usable, modifiable and shared by anyone for any purpose. In order to use them, open licences are required.

OPEN FORMATS AND OPEN THESAURUSES

Open formats are defined by a public specification and are reproducible in their use. They are readily usable by open-source software. Open thesauruses can freely be shared for all purposes as long as they are cited and licences are included.

OPEN METADATA

Open metadata should be transparent and based on standards.
Properties of an Open Access Repository

- Open Source
- Open Access to the Repository
- Open to all formats
- Open for all disciplines
OPEN ACCESS POLICIES

• Guidelines from academic institutions
• Support for researchers
• Scientific results are more visible and accessible
• Help for researchers to publish in OA-Journals
• Give them the possibility to archive their research data in repositories
Can be freely used, modified and shared by anyone for any purpose

Open Licences are required
Metadata is an information about information, that helps to find the data, to describe them and make them accessible.

Open metadata should be:
• based on standards
• structured and
• free of all restrictions
Open Formats are
• used by open source software
• not restricted in their use
• defined by a published specification

Open Thesauruses are
• Freely accessible for everyone
• Without costs and
• With a free licence
Open Processes should be

• documented
• transparent
• repeatable
• reusable

Open Descriptions should be accessible for everybody
Authors and reviewer are not anonymous

The whole process and the decision letters are open
Open licences are the basics of Open Science. The reuse of any work or data is allowed – without any restrictions.
OPEN SCIENCE

• Open Data
• Open Source
• Open Methodology
• Open Peer Review
• Open Access
• Open Educational Resources
• Open Repositories