Info Sheet What is Open Science?

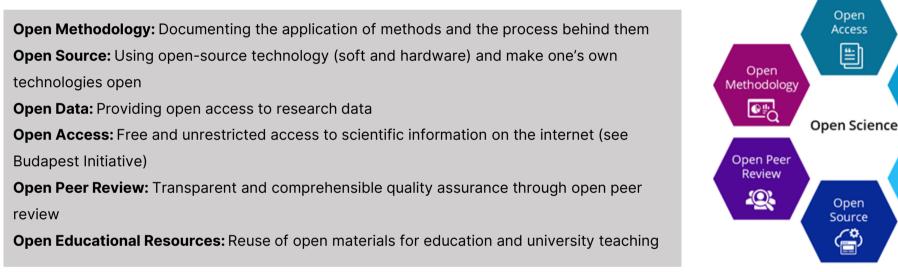
1. What is Open Science?

Open Science aims to make the entire scientific process from the initial idea to the final publication as comprehensible and re-usable as possible for everyone. It stands for:

- a holistic approach to open practices in research
- ensuring transparency, accessibility, and interoperability at all stages of the research process
- providing access to research results as openly as possible
- facilitating participation and accessibility for a broader audience to research data, methods, software tools, and other resources of scientific practice

2. Six Principles of Open Science

Open Science is based on six principles to make scientific processes more open and transparent (openscienceASAP, o. J.):



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Open

Educational

Resources

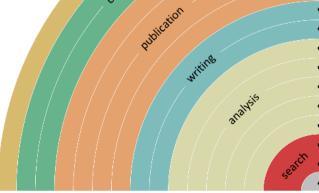
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3. Practices in Open Science: You can make your workflow more open by...

assessment .

adding alternative evaluation, e.g. with altmetrics communicating through social media, e.g. Twitter sharing posters & presentations, e.g. at FigShare using open licenses, e.g. CC0 or CC-BY publishing open access, 'green' or 'gold' using open peer review, e.g. at journals or PubPeer sharing preprints, e.g. at OSF, arXiv or bioRxiv using actionable formats, e.g. with Jupyter or CoCalc open XML-drafting, e.g. at Overleaf or Authorea sharing protocols & workfl., e.g. at Protocols.io sharing notebooks, e.g. at OpenNotebookScience sharing code, e.g. at GitHub with GNU/MIT license sharing data, e.g. at Dryad, Zenodo or Dataverse pre-registering, e.g. at OSF or AsPredicted commenting openly, e.g. with Hypothes.is using shared reference libraries, e.g. with Zotero sharing (grant) proposals, e.g. at RIO







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Literatur:

openscienceASAP. (o. J.). Was ist Open Science? openscienceASAP. Abgerufen 18. Februar 2025, von https://openscienceasap.org/open-science/ open-access.network. (2024). Open Science. open-access.network. https://open-access.network/informieren/open-access-grundlagen/was-bedeutet-open-access#c7179