

DECLARATION FOR OPEN SCIENCE AND RESEARCH (FINLAND) 2020–2025

RESPONSIBLE RESEARCH SERIES

Responsible Research Series publishes declarations, policies, studies, recommendations and other documents relating to the openness, responsibility and accessibility of science and research. Publications also cover science communication and science-society interactions. The publication series is not a scientific peer-reviewed publication. The series is published by the Committee for Public Information (TJNK) and the Federation of Finnish Learned Societies (TSV)

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VISION

Open science and research are integrated in researchers' everyday work and support not only the effectiveness of research outputs but also the quality of research.

The Finnish research community is an international forerunner in open science and research.

MISSION

- promote openness as a fundamental value throughout the research community and its activities
- strengthen societal knowledgebase and innovation
- improve the quality of scientific and artistic research outputs and the educational resources based on them, and the fluid mobility and impact of research outputs throughout society

POLICY FOR OPEN SCHOLARSHIP

POLICY FOR
OPEN ACCESS
TO SCHOLARLY
PUBLICATIONS

POLICY FOR
OPEN ACCESS TO
RESEARCH DATA AND
METHODS

POLICY FOR THE
OPEN EDUCATION
AND EDUCATIONAL
RESOURCES



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Open Science Coordination in Finland

The Committee for Public Information (TJNK)
&
Federation of Finnish Learned Societies (TSV)

Helsinki 2020



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Open Science and Research Steering Group.

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DECLARATION FOR OPEN SCIENCE AND RESEARCH (FINLAND)

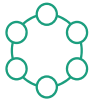
VISION FOR OPEN SCIENCE AND RESEARCH 2025

Open science and research are integrated in researchers' everyday work and support not only the effectiveness of research outputs but also the quality of research. The Finnish research community is an international forerunner in open science and research.

MISSION FOR OPEN SCIENCE AND RESEARCH IS TO

- promote openness as a fundamental value throughout the research community and its activities
- strengthen societal knowledgebase and innovation
- improve the quality of scientific and artistic research outputs and the educational resources based on them, and the fluid mobility and impact of research outputs throughout society:
 - between researchers and research teams
 - between fields of science and research
 - between research and education
 - between researchers and the private sector, the public sector and the third sector
 - between researchers and society's decision-makers and citizens.

The Finnish research community will draft policies to support the vision and the mission. The policies will be drafted for four areas:



Culture for open scholarship



Open access to scholarly publications



Open access of research data and methods



Open education and open access to educational resources

BY SIGNING THE DECLARATION FOR OPEN SCIENCE AND RESEARCH 2020–2025 ORGANISATIONS AND OTHER MEMBERS OF THE RESEARCH COMMUNITY COMMIT TO THE VISION AND MISSION:

1. by endorsing the strategic goals for open science and research defined by the research community in their own strategies and steering work, with consideration for the characteristics of their organisations
2. by supporting and encouraging the everyday work of their organisation's members to attain the objectives and goals of the policies.
3. by actively participating in the national open science and research coordination activities.

STRATEGIC GOALS FOR OPEN SCIENCE AND RESEARCH

POLICY FOR OPEN SCHOLARSHIP

Responsible openness is part of daily life in the research community and it permeates the entire research process. Research organisations have the evaluation practices, incentives and services needed to support open science and research.

POLICY FOR OPEN ACCESS TO SCHOLARLY PUBLICATIONS

All new research publications are immediately available via open access.

POLICY FOR OPEN ACCESS TO RESEARCH DATA AND METHODS

Research data and methods are as open as possible and as closed as necessary. The management of research data aspires to FAIR principles. Research methods and materials, including research data, are recognised as independent research outputs.

POLICY FOR THE OPEN EDUCATION AND EDUCATIONAL RESOURCES

Creation, use and collaborative development of open educational resources and other open educational practices are part of daily life in higher education and enable lifelong learning.

WHY OPENNESS?

Openness is a fundamental value in science and research. Open practices improve effectiveness of research in the research community and the society at large.

Open science and research practices enable wide use of research findings, data, methods and infrastructures as well as educational resources in the research community and society and increase the effectiveness and mobility of research-based knowledge. This in turn promotes societal knowledgebase and the creation of innovations. The quality of research will also improve in response to the open access to research outputs (observations, results, data, methods, and

publications) and the transparency of the research process.

By providing equal access to research-based knowledge, open science and research practices also significantly increase equality in the research community and society at large. Openness has an important role in all stages of research. Using the new opportunities provided by openness is part of a researcher's toolkit.

WHY A JOINT DECLARATION?

The aim of the declaration for openness is to support and highlight openness as a fundamental value of research and the intrinsic autonomy of research.

Clear principles and practices promoting openness provide a space, where science and research can remain independent. An independent research community is strongly connected with other areas of society,

influencing them and being influenced by them. When open practices take root throughout the research life-cycle, openness will become part of good and responsible research and scientific practice.

FINNISH RESEARCH COMMUNITY

The Finnish research community consists of:

- Individual Finnish and foreign researchers and doctoral candidates affiliated with Finnish research organisations, and researchers with personal funding affiliated with Finnish research organisations or funded by a Finnish research funder;
- Finnish research organisations such as universities, universities of applied sciences and research institutions, including their research teams and individual researchers, as defined in the Finnish legislation;
- Finnish research funders that specialise in funding research, including the Academy of Finland, Business Finland, and numerous private foundations and funds;
- Finnish service providers that develop the infrastructure of open science, including CSC;
- Learned societies in Finland;
- Academies and national scientific boards and committees in Finland;

- Research libraries and archives in Finland
- Scholarly publishers in Finland.

The declaration for open science and research will lead the way for the Finnish research community to promote openness. By adopting the declaration for open science and research, the members of the Finnish research community commit to promoting common goals in their own organisations and to participate in the national open science activity coordinated by the Federation of Finnish Learned Societies (TSV). In other words, the research community has executive responsibility while the TSV has coordinating responsibility.

In addition to the Finnish research community defined above, private companies and third-sector organisations and citizens within the framework of citizen science also engage in research. Increasing openness in this context should also be encouraged especially when research is conducted in co-operation with members of the research community.

INTERNATIONALITY

National open science and research policies and plans have been drawn up in recent years for example in the Netherlands, France and Ireland. These countries have comprehensive plans covering and joining various areas of open science and research. In addition, there are further national policies and strategies that concern specific areas such as publications and research data.

The Finnish declaration for open science and research is the Finnish research community's response to the international policies of open science that bind Finland as an EU Member State and its research community in various international contexts. Principal international policies include:

- Amsterdam call for action on open science (4.–5.4.2016)
- Dora-declaration
- EOSC Vienna declaration and FAIR principles
- European Commission recommendation on on access to and preservation of scientific information (25.4.2018)
- Leiden manifesto for research metrics
- Open Access 2020 - initiative
- OSPP-REC – Open Science Policy Platform Recommendations (22.4.2018)
- Plan S - initiative
- UNESCO Recommendation on Open Educational Resources (2019).



BACKGROUND FOR THE DECLARATION

Open science and research has been promoted in Finland for many years through diverse projects and recommendations. Systemic promotion of open science policies commenced in 2011, when the government accepted a resolution on improving the accessibility and promoting the reuse of public information resources in digital format.

In recent years open science and research has been strongly promoted in projects by the Ministry of Education and Culture including Tutkimuksen tietoaaineistot (TTA 2011–2013), Avoin tiede ja tutkimus (ATT 2014–2017) and Avoimen tieteen ja Datat hanke (ATD 2017–2018).

Thanks to these projects and other initiatives, Finland has a broad basis for co-operation in open science and research and a substantial service infrastructure that enables openness. In addition, the Academy of Finland requires open access principles for all new research infrastructure projects. These previous roadmaps and goals have contributed to the Declaration for Open Science and Research in Finland.

The Ministry of Education and Culture transferred the coordination of open science to the research community itself in 2018. The coordination responsibility was assigned to the Federation of Finnish Learned Societies. The Ministry supports the coordination work but does not steer its content.

Therefore this declaration has been drawn up collaboratively and is owned by the Finnish research community. The following National Open Science and Research Steering Group organisations have contributed to the work:

- Rectors' Conference of Finnish Universities of Applied Sciences Arene
- Finnish National Library
- Academy of Finland
- Universities Finland UNIFI
- Joint university library network FUN
- Federation of Finnish Learned Societies
- Finnish Social Science Data Archive
- National Research Consortium Tulanet

APPENDICES AND FURTHER INFORMATION

Amsterdam call for action on open science (4.-5.4.2016) <https://www.government.nl/documents/reports/2016/04/04/amsterdam-call-for-action-on-open-science>

EOSC Vienna Declaration (23.11.2018) <https://eosc-launch.eu/declaration/>

European Commission: Open Science Policy Recommendations (22.4.2018) http://ec.europa.eu/research/open-science/pdf/integrated_advice_opspp_recommendations.pdf#view=fit&pagemode=none

Euroopan komission suositus tieteellisen tiedon saataavuudesta ja säilyttämisestä (25.4.2018) <https://eur-lex.europa.eu/legal-content/FI/TXT/PDF/?uri=CELEX:32018H0790&from=EN>

France's National Plan for Open Science: <https://libereurope.eu/blog/2018/07/05/frenchopenscienceplan/>

Dora declaration <https://sfdora.org>

Kohti yllättäviä löytöjä ja luovia oivalluksia - Avoin tiede ja tutkimus -hankkeen loppuraportti https://avointiede.fi/sites/avointiede.fi/files/ATT-hankkeen%20loppuraportti%20v5_0.pdf

Leiden Manifesto for research metrics <http://www.leiden-manifesto.org/>

Open Access 2020 <https://oa2020.org>

National Plan Open Science (Dutch) <https://www.open-science.nl/en/national-platform-open-science/national-plan-open-science>

National Framework on the Transition to an Open Research Environment <http://norf-ireland.net/>

Plan S <https://www.coalition-s.org/>

UNESCO Recommendation on Open Educational Resources 2019 <https://unesdoc.unesco.org/ark:/48223/pf0000370936>

Turning FAIR into reality (26.11.2018) https://ec.europa.eu/info/publications/turning-fair-reality_en

Tutkimuksen avoimuudella yllättäviä löytöjä ja luovaa oivaltamista: Avoimen tieteen ja tutkimuksen tiekartta 2014–2017 <http://urn.fi/URN:ISBN:978-952-263-317-0>

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Open access to scholarly publications – National policy and executive plan by the research community in Finland for 2020-2025: Policy component for open access to journal and conference articles. Responsible Research Series 3:2019. Open Science Coordination in Finland. TSV & TJNK: Helsinki.



Tieteellisten seurain
valtuuskunta

tjnk  TIEDONJULKISTAMISEN NEUVOTTELUKUNTA
DELEGATIONEN FOR INFORMATIONSSPRIDNING

