





Finnish perspective and developments regarding EOSC

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CSC – Suomalainen tutkimuksen, koulutuksen, kulttuurin ja julkishallinnon ICT-osaamiskeskus

EOSC Declaration

Conclusion of EOSC Summit

12 June

- A Declaration and more than 30 statements about
 - \circ Data Culture and FAIR Data
 - Research Data Services and Architecture
 - EOSC Governance and Funding

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EUROPEAN COMMISSION DIRECTORATE-GENERAL FOR RESEARCH & INNOVATION

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Brussels, 10 July 2017

EOSC Declaration

RECOGNISING the challenges of data driven research in pursuing excellent science;

he Director General

GRANTING that the vision of European Open Science is that of a research data commons, widely inclusive of all disciplines and Member States, sustainable in the long-term,

CONFIRMING that the implementation of the EOSC is a process, not a project, by its nature iterative and based on constant learning and mutual alignment;

UPHOLDING that the EOSC Summit marked the beginning and not the end of this process, one based on continuous engagement with scientific stakeholders, the European Commission,

<u>PROPOSES</u> that all EOSC stakeholders consider sharing the following intents and will actively support their implementation in the respective capacities:

Data culture and FAIR data

- [Data culture] European science must be grounded in a common culture of data stewardship, so that research data is recognised as a significant output of research and is appropriately curated throughout and after the period conducting the research. Only a considerable cultural change will enable long-term reuse for science and for innovation of data created by research activities: no disciplines, institutions or countries must be left behind.
- [Open access by-default] All researchers in Europe must enjoy access to an open-by-default, efficient and cross-disciplinary research data environment supported by FAIR data principles. Open access must be the default setting for all results of publicly funded research in Europe, allowing for proportionate limitations only in duly justified cases of personal data protection, confidentiality, IPR concerns, national security or similar (e.g. 'as open as possible and as closed as necessary').
- Skills The necessary skills and education in research data management, data stewardship and data science should be provided throughout the EU as part of higher education, the training system and on-the-job best practice in the industry. University associations, research organisations, research ibraries and other educational brokers play an important role but they need substantial support from the European Commission and the Member States.
- [Data stewardship] Researchers need the support of adequately trained data stewards. The European Commission and Member States should invest in the education of data stewards via career programmes delivered by universities, research institutions and other trans-European agents.
- [Rewards and incentives] Rewarding research data sharing is essential. Researchers who make research data open and FAIR for reuse and/or reuse and reproduce data should be rewarded, both

The European Open Science Cloud for Research pilot project is funded by the European Commission, DG Research & Innovation under contract no. 739563







DCC

An Analysis of Open Data and Open Science Policies in Europe, May 2017

> SPARC and DCC find seven countries in Europe with national open data/science policies

Overview table: countries with national policies in place

MEMBER STATE / COUNTRY	TYPE OF POLICY (STATUTE, GOVERNMENT MINISTRY, FUNDER POLICY)	YEAR POLICY CAME INTO EFFECT	SPONSORING ORGANISATION (MINISTRY, FUNDER, ETC)	SCOPE / COVERAGE BEYOND DATA	LINKED TO OA / OPEN SCIENCE POLICY?	SOFT/ HARD ³	COVERAGE OF SKILLS OR TRAINING?	MONITORING AND/ OR COMPLIANCE ⁴	
EU									
BE	Code of Ethics	2009	Learned Societies, supported by Federal Government	Protocols	No	Hard	No	No	
СҮ	Joint policy of Government and Funder	2016	Working group involving government ministry, funder and universities	Publications	Yes	Soft	No	No	
DK	National Plan	2015	Steering group involving universities, libraries and national ICT infrastructure provider	Software, protocols	No	Hard	Yes	No	
EE	National Plan	2016	Research Council	Publications, code, methodologies	Yes	Hard	Yes	No	
FI	National Plan	2014	Ministry	Publications, tools, methodologies	Yes	Hard	Yes	Yes	
FR	Law	2016	Parliament	Covers data alongside many other ICT related issues, including OA	Yes	Hard	No	No	
DE	Funder Policy	2010	Research Council	Software, methods	No	Hard	No	No	
LT	Law / Funder Policy	2016	Research Council / Parliament	Publications	Yes	Hard	No	Yes	
NL	National Plan / Concordat	2017	Ministry	Publications	Yes	Soft	Yes	Yes	
РТ	Funder Policy	2014	Research Council	Samples, software, models	No	Soft	No	No	
ик	Funder Policy / Concordat	2015/2016	Funding Council, Research Councils, Universities, Private Funder	Software (in the FAQs and Concordat)	No	Hard	Yes	No	
NON EU									
NO	Funder Policy	2014	Research Council	Only data	No	Soft	Yes	No	
СН	White Paper	2014	Universities	Covers data alongside many other ICT related issues, including OA	Yes	Hard	Yes	Yes	

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http://sparceurope.org/new-sparc-europe-report-analyses-open-data-open-science-policies-europe/

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Finland: Preliminary views on the EOSC Declaration

- Finland welcomes the EOSC declaration and sees the huge potential in it.
- Finland has been working with open science, open data and research clouds for a few years now. To continue our work we recently started a development program to advance data management and scientific computing. Our development program has many of the same elements as presented in the declaration (i.e. FAIR principles, DMP, skills & training, interoperability, long term preservation and HPC).
- For EOSC the right stakeholders need to be involved. Especially member states need to be involved and informed better. We propose that the EOSC governance will be as simple, flexible and clear as possible. There are already plenty of forums and groups involved in research infra, including e-infra, and the creation of new ones should be thought very carefully.
- There is existing funding for certain EOSC platforms but apparently no funding for the operational level and for the governance level."
- Enough attention should be paid on legal interoperability, which sits on top of all the other interoperability layers.
- There is already similar work done within the Inspire and PSI world and these should be reused, such as the new interoperability framework (EIF).

So where is Finland in terms of implementation with the EOSC declaration?



Topic in the EOSC declaration	Finland Open Science and Research Initiative	for export
Data Culture	 Evaluation of the openness of the operational culture of Finnish research organisations and research funding organisations The Open Science and Research Roadmap 2014-2017 Handbook for open science and research (in Finnish only) Services for open science supporting the openness of research and research outputs. 	 <u>http://openscience.fi/openculture</u> <u>http://openscience.fi/open-science-and-research-roadmap-2014-2017</u> <u>http://openscience.fi/services</u>
OA by default	 National data policy recommends CCBY4.0 for all research output, which is also echoed in the roadmap Public Administration Recommendation (JHS 189) proposes either CCBY4.0 or even CC0 when there is no need to single out the data or to mention the producer of the data. 	
Skills	 Extensive series of training on Open Science for research management in 2015 – 2016 On-line open introductory course into the practices of Open Science Webinars and seminars Handbook for open science and research 	 http://openscience.fi/open-science- expert-training
Rewards	• CV model for the researcher: Rewards, incentives and recognition for researchers practicing Open Science	
FAIR, standards	 IOW – Interoperability workbench Developed for the Ministry of Finance but could be applied for research as well The method ensures that shared definitions are applied in a systematic way and the semantics are passed to every implementation that re-uses the interoperability descriptions. DCAT application profile for research data 	• iow.csc.fi (beta)
Data Management Plans	 DMPTuuli (based on DMPonline) in use and adjusted to the requirements of research organizations and research funders. The major research funding organizations in Finland (Academy of Finland and Tekes) require the usage of DMPs for their research grant applications and recommend to use DMPTuuli. In Autumn 2016 over 70% of proposals used DMPTuuli 	<u>http://openscience.fi/tuuli</u>
Legal	 Metadata related to IPR – study (in Finnish) Study on the on the needs for legislative amendment to promote parallel publishing (in Finnish) 	• <u>http://www.doria.fi/handle/10024/1</u> <u>33690</u>
EOSC architecture	 The framework for Open Science and Research gives an overview of how various actors' open science and research processes as well as supporting services will form an interoperable system This target architecture will guide the national principles of openness that govern the data and services used in science and research, the exchange of information, and the development of services that support openness. 	 http://openscience.fi/framework-for- open-science
Implementation	Finland favors the usage of open interfaces	
User needs	Sharing and exchange of use cases and experiences, user profiles and insight interviews	