

What kind of policies and strategies? Aligning institutional, national and European open science priorities

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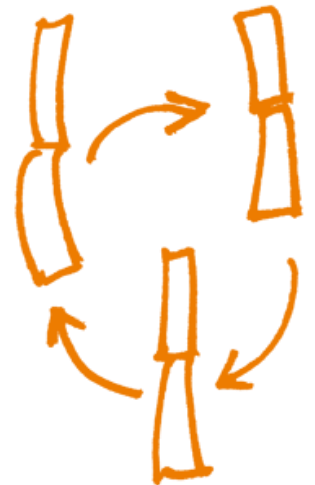


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How to design open science policies and strategies that address **local needs** and are at the same time aligned with **broader regional and European priorities?**





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SERVICES

SUPPORT

OPEN SCIENCE IN EUROPE

ABOUT



SIGN IN

The present model policy aims to assist Research Performing Organisations (RPOs) in developing policies for Open Science/ Open Access.

The proposed policy aims at aligning institutional policies with the [2012 Recommendation](#) of the European Commission on access to and preservation of scientific information and its [2018 update](#), the [Horizon 2020 Guidelines on the rules of open access to scientific publications and research data](#), the [Proposal for a Regulation of the European Parliament and the Council establishing Horizon Europe - the Framework Programme for Research and Innovation](#), laying down its rules for participation and dissemination (COM/2018/435 final) and the [Proposal for a Decision of the European Parliament and of the Council on establishing the specific programme implementing Horizon Europe - the Framework Programme for Research and Innovation](#) (COM/2018/436 final) and takes into consideration important developments at EU-level related to Open Science/ Open Access such as the [2016 European Council Conclusions on the transition towards an Open Science system](#), the “[Plan S](#)” and “[cOAlition S](#)”, the developments of the [European Open Science Cloud \(EOSC\)](#) and in particular the [EOSC Strategic Research and Innovation Agenda](#), the action lines of the [European Open Science Policy Platform](#), the Communication “[A new ERA for Research and Innovation](#)” and the [2019 EU Directive on open data and the re-use of public sector information](#), the Report “[Towards a 2030 Vision on the Future of Universities in Europe](#)”. In addition, the document also takes into consideration other related reports from university associations like [EUA’s “Perspectives on the new European Research Area from the university sector”](#) and “[Universities without walls: A vision for 2030](#)”, the [Guild of European research intensive universities “Looking to the Future: the Guild’s Vision for Europe’s Universities”](#) and other associations like the [Science Europe practical guide to the “International Alignment of Research Data Management”](#).

The model policy has been prepared as part of a toolkit for policy makers on Open Science and Open Access in the context of the EU-funded OpenAIRE Advance project that supported Open Access/ Open Data mandates in Europe. The proposed policy draws heavily on the [UNESCO Open Science policy development process](#) and [UNESCO Open Access policy development guidelines](#), the [MedOANet guidelines for Open Access](#), [PASTEUR4OA Toolkit and Policy Guidelines](#), the [RECODE project](#) policy recommendations for Open Access policies to research data, the [LEARN project](#) Model Research Data Management Policy, and the [SPARC Europe report on Open Data and Open Science policies in Europe](#).

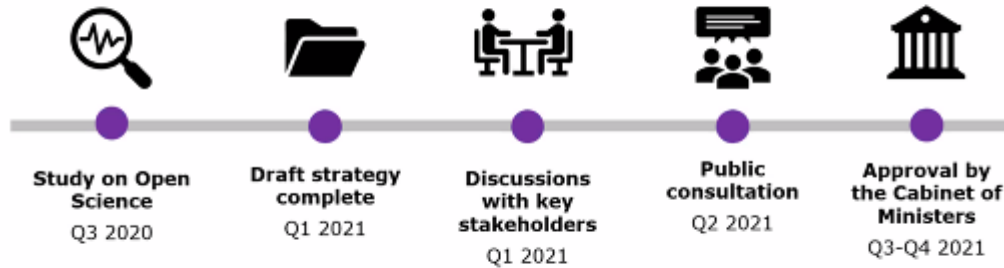
OS Policy Checklist:
for RFOs
for RPOs

Model Policy on OS:
for RFOs
for RPOs

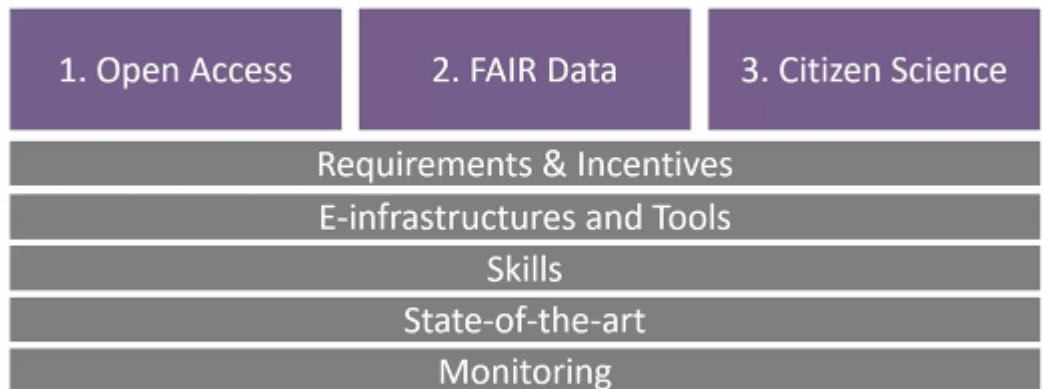
OS Policy Fact sheets:
for RFOs
for RPOs

<https://www.openaire.eu/model-policy-on-open-science-for-research-performing-organisations>

LATVIAN OPEN SCIENCE STRATEGY TIMELINE



3 PILLAR STRUCTURE



Aleksandrs Martiņš Blūms,
RIS3 Expert, Ministry of
Education and Science of the
Republic of Latvia

<https://www.eosc-nordic.eu/content/uploads/2021/03/OpenScience-in-Latvia.pdf>

Open access to publications: The [Name of RPO]:

1. Requires researchers to **deposit** in the institutional **repository**, or any other suitable infrastructure a machine-readable electronic copy of the full text (published article or final peer-reviewed manuscript), as well as the related metadata.



2. Requires the full text of all publications referred to above to be made **immediately and publicly available under a standard open license (CC-BY or equivalent, CC-BY-ND/NC for longer text formats is allowed)**. For monographs, deposit remains mandatory, but access could be closed.

Open access to publications: The [Name of RPO] (2):

4. For purposes of **individual or institutional evaluation of the research output of the institution and its members**, [Name of RPO] will only consider as publications those whose metadata and full texts are **deposited** in the institutional **repository** according to the requirements stated above.

5. **Retain ownership of copyright** and license to publishers only those rights necessary for publication.

Authors (or their organizations) must ensure Open Access to the Author Accepted Manuscripts or the Version of Record (VoR) of research articles, at the time of publication...

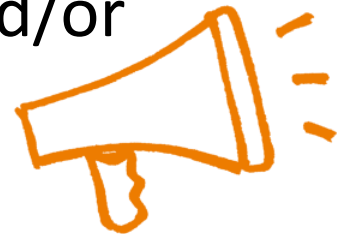


Open access to research data: The [Name of RPO]:

1. Requires researchers to **deposit** the **data** needed to validate the results presented in scientific publications in a suitable repository such as [Name of Repository].
2. Requires that data and services are handled according to **open and FAIR principles**.
3. The [Name of RPO] follows the principle “**as open as possible as closed as necessary**”. If data cannot be open due to legal, privacy or other concerns (for example sensitive data or personal data) this should be clearly explained.

Open access to research data: The [Name of RPO] (2):

4. Requires researchers to submit a **Data Management Plan (DMP)** to the appropriate service for every research activity they are involved in.
5. Requires researchers to **define usage rights through the assignment of appropriate licenses – CC BY or CC0** (or equivalent) license.
6. Requires that data are **stored for a certain period** (e.g. as defined by the respective communities and/or policies).



OPEN SCIENCE STRATEGY FAIR DATA

Standardized Data Management Plans (DMPs)

Principles: minimal burden to researchers, international templates, machine-actionable and connected to CRIS systems

DataverseLV Research Data Repository Network

Participation in the European Open Science Cloud

Commitments for Partnership: 3.5M Financial; 2M in-kind

PRINCIPLES

- Research data **open by default**
- Research data, metadata, e-infrastructures **as FAIR as possible**

DataverseLV



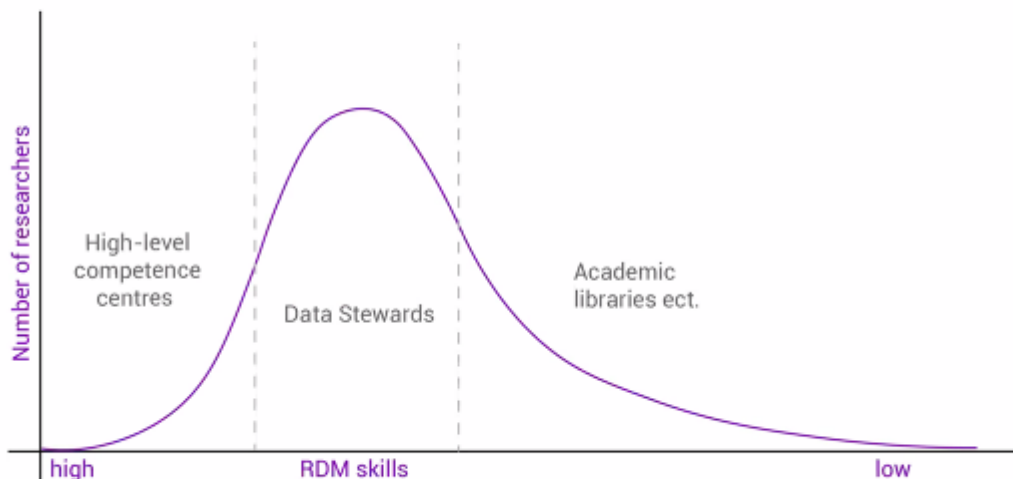
EUROPEAN OPEN
SCIENCE CLOUD

PROPOSAL FOR A DATA STEWARDS PROGRAM

- Main instrument for increasing RDM skills and encouraging use of e-infrastructures and tools
- Developing general and field-specific skills and practice
- Joint coordination and trainings
- Potential for Nordic-Baltic cooperation
- Current proposal: ~30 Data Stewards @ Postdoc salary

Aleksandrs Martiņš Blūms,
RIS3 Expert, Ministry of
Education and Science of the
Republic of Latvia

<https://www.eosc-nordic.eu/content/uploads/2021/03/OpenScience-in-Latvia.pdf>



OPEN SCIENCE STRATEGY MISCELLANEOUS

- Integration of Open Science criteria in research institution evaluation
- Nomination of National Open Science Coordinator
- Active participation in ERAC SWG OSI, CoNOSC and other groups
- Implementing a monitoring system based on OpenAIRE Monitor
- Encouraging research institutions to develop Open Science strategies
- Encouraging 1-2 Latvian organizations to join the EOSC association
- Giving national mandate to a member organization
- Long-time archiving of digital objects
- Registering researchers in ORCID, RIs in ROR
- Providing DOIs to digital object repositories
- Opening API of National CRIS system

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<https://www.eosc-nordic.eu/content/uploads/2021/03/OpenScience-in-Latvia.pdf>

Open science and Citizen science:

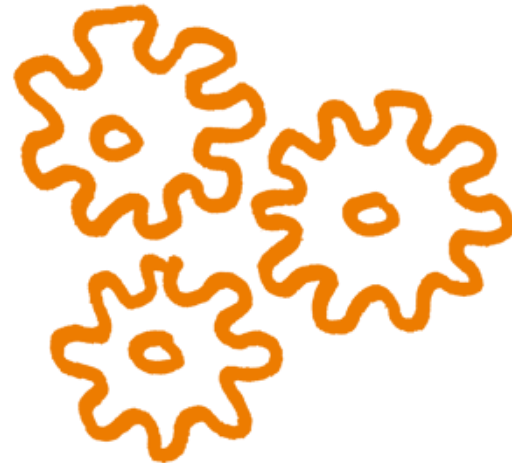
The [Name of RPO]:

Supports citizen science projects and where possible **connects students' curricula and degrees to citizen science projects** as a means to rethink the knowledge production and circulation models inside and outside the university; includes students in the design phase of such projects as an **active learning approach** and an **in person experience**; invests in **in-house training** to raise awareness and **build capacity for students' participation** in projects for society; **rewards students' performance** as participants of citizen science projects with **awards and extra academic excellence points**.



Infrastructure

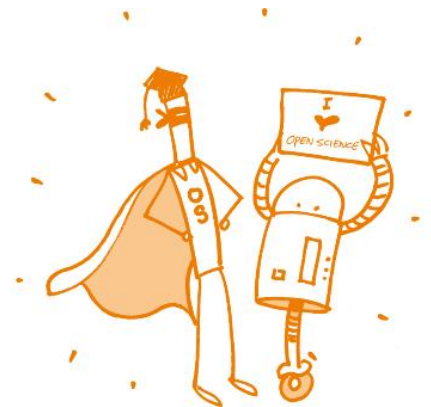
1. Ensuring that the [RPO Repository] meets **trusted quality standards** (OpenAIRE compatible, meeting FAIR principles, has a transparent repository policy) and are linked with EOSC.
2. Ensuring that the [RPO Repository] is registered in appropriate registries and is **interoperable** through the OpenAIRE Guidelines.



Research Assessment & Evaluation:

[Name of RPO] commits to:

1. Developing in cooperation with funding agencies, institutional departments and other appropriate units a framework for research assessment and evaluation that **incentivizes research quality and Open Science behaviors and practices**. Such systems should take into consideration **disciplinary differences** and their impact on **researchers at different career stages**.



Research Assessment & Evaluation:

[Name of RPO] commits to (2):

2. Setting up **reward mechanisms for researchers using Open Science practices** (e.g. sharing provisional results through open platforms, using open software and other tools, participation in open collaborative projects (citizen science), sharing data, etc.); **adopt open science metrics and ‘responsible metrics’, along with ways of rewarding the full diversity of outputs and of recording the broader social impact of research** (‘next generation metrics’).





Examples of Principle #10 in Practice

Responsible research assessment and evaluation



Before



After

	Attitudes	Competition	Collaboration
	Journals	Reputed for prestige & publisher	Reputed for fast & fair reviews
	Research	Highly selective Flashy, newsworthy	Solidly reproducible Robust
	Evaluation	Only articles matter Quantitative metrics & Impact Factor Opaque	All outputs & contributions matter Qualitative metrics & intrinsic merit Transparent

Training: The RPO library

(In cooperation with institutional departments or any other appropriate body (such as legal services, research support staff, RDM experts) commits to developing **training courses to facilitate the adoption of open science and equip researchers, librarians and other support staff with the necessary skills and expertise...** Standardized and accredited skills for open science will be provided for researchers and **required at all career levels, including among research students and supervisors.** Training should be **tailored to different disciplines** and delivered to **researchers at all career stages and should be embedded into curricula.**





Open Practices, Transparency &
Integrity for Modern Academia

Erasmus+ KA2 Project



Co-funded by the
Erasmus+ Programme
of the European Union

Open peer review platform for academic conferences

New academic courses: Open Science Practices (PhD level); Open Science in Ecology, Open Science in Information Management, Open Science in Biology, Open Science in Chemical Technology (Master level); open online course on Open Science

<https://lpnu.ua/en/optima>

Thank you!

Questions?

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