

Ministry of Education and Science Republic of Latvia

OPEN SCIENCE IN LATVIA

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LATVIAN OPEN SCIENCE STRATEGY TIMELINE





3 PILLAR STRUCTURE

1. Open Access	2. FAIR Data	3. Citizen Science		
Requirements & Incentives				
E-infrastructures and Tools				
Skills				
State-of-the-art				
	Monitoring			



STATE OF OPEN SCIENCE **OPEN ACCESS**

Education and Science

- Average position in EU
- > Year-on-year growth
- Huge variability depending on data source (WoS/Scopus/Scopus+Unpaywall)
- > High percentage of Gold OA publications
- > OA encouraged in many programs, not yet mandatory
- > APCs are eligible costs in state funded programs
- Self-archiving strongly encouraged in recent programs

Percentage of Open Access publications in total publications, by

country

Source: Consortium's own analysis - Reference date: 2009-2018





OPEN SCIENCE STRATEGY OPEN ACCESS

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All State funded research publications must be Green or Gold OA without an embargo period

- Increasingly centralized journal licensing, transformative agreements
- > OA guidelines for researchers, encouraging including APC costs

 Centralized hub for publication data/metadata
(integration with national CRIS system, antiplagiarism database)



STATE OF OPEN SCIENCE FAIR DATA

- Good RDM practice seen by many researchers as burden*
- > No national DMP requirements
- > No monitoring system for FAIR data
- Research data repositories slowly emerging
- Some investments in e-infrastructures via ESFRI
- Several projects incl. EOSC Nordic, OpenAIRE
- > First Data Steward vacancy at Riga Stradiņš University



OPEN SCIENCE STRATEGY FAIR DATA

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Standardized Data Management Plans (DMPs)

<u>Principles</u>: 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** <u>Commitments for Partnership</u>: 3.5M Financial; 2M in-kind

PRINCIPLES

Research data open by default



Research data, metadata, einfrastructures **as FAIR as possible**

Dataverse L[∞]

My Dashboard Create plan	🔗 Raference - Help	🕲 Language - 🕠	4
Covid interviews			
Project Details Plan overview	Write Plan Share Download		ſ
expand all collapse all	2/13		
Data Collection (2 / 2)		+	
Documentation and Metadata (0 / 1)		+	
Ethics and Legal Compliance (0 / 2)		+	
Storage and Backup (0 / 2)		+	
Selection and Preservation (0 / 2)		+	
Data Sharing (0 / 2)		+	
Responsibilities and Resour	ces (0 / 2)	+	
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PROPOSAL FOR A DATA STEWARDS PROGRAM

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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









STATE OF OPEN SCIENCE CITIZEN SCIENCE

 15+ initiatives in Latvia*
Wide range of fields of Science (natural sciences, humanities, etc)
High-level political support
Integral part of strategic communication

(researchLatvia)



Several events organized by the Ministry



Nature Data



DABAS DATI





OPEN SCIECE STRATEGY CITIZEN SCIENCE

Societal involvement in all stages of the research process

- Emphasis on co-creation; benefits must accrue to society and science
- Strategy incorporates ESCA 10 principles of Citizen Science*

Support from the Ministry: researchLatvia platform and research data infrastructures



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



JOINT SERVICES CENTER HIGHER EDUCATION AND RESEARCH

- > Modeled on CSC in Finland
- > University-led initiative
- > Objectives:
 - > Reducing the fragmentation of service providers
 - > Providing economies of scale
 - > Concentrating technical expertise
- > Co-funded between universities and the Ministry
- Client-orientation; cooperation with private-sector
- Innovation through procurement; active use of Open Source
- > Membership in intl. organizations/networks





JOINT SERVICES CENTER HIGHER EDUCATION AND RESEARCH

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Services:



Academic network / GEANT CRIS systems Dataverse network CRIS systems > eduGAIN IDP / ESCI services MikroTik Genome Data Network **Possibly HPC**



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