

OPEN SCIENCE: IMPLEMENTATION AND DEVELOPMENT IN MOLDOVA

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Building knowledge and competence, train-the-trainers' session:
Research Integrity and Open Science

Linköping University

THE POLICY OF THE REPUBLIC OF MOLDOVA IN THE FIELD OF OPEN SCIENCE

The Code on Science and Innovation of the Republic of Moldova

(ratified by Law nr. 259 of 15.07.2004) *has provisions on access to scientific information. The State, in accordance with the legislation in force, guarantees: support by ensuring access to information by disseminating it (Art. 63); information support of the science and innovation actors (Art. 66); the right to free and non-discriminatory access to the scientific and technological information resources (Art. 116).*

Under the Association Agreement between RM and the EU

(ratified by Law nr. 112 of 02.07.2014), chapter 18, art. 99 (c) provides for "encouraging and promoting the implementation of ICT tools for better governance, e-learning and research, digitization of cultural heritage, development of digital content".

Association with Horizon 2020 –

Moldova became an associated country in 2014 (Law nr. 142 of 17.07.2014), aligning its research activities with EU standards.

. Horizon Europe Participation –

Moldova continues to take part in the successor program, Horizon Europe (2021–2027), fostering international cooperation in science and innovation.

The National Roadmap for the Integration of the RM into the European Research Area (ERA) for the years 2019–2021

(Gov. of the RM, 2018) *defines among its priority objectives the "Optimal circulation, access, and transfer of knowledge." It emphasizes the importance of "Open Innovations," and ensuring Open Access to scientific results and services.*

Open Science in the Republic of Moldova



OPEN ACCESS

National R&D Strategy 2020



all national research journals
are in OA till 2017

Instrumentul Bibliometric
Național



www.ibn.idsi.md

biggest national database
of research publications
in OA

JOURNALS registered in IBN

104
registered journals

65
accredited journals

16
journals in



over
51000
articles
registered in IBN

DOAJ DIRECTORY OF
OPEN ACCESS
JOURNALS

✓ OA Week

- organised annually since 2009
- leader – *Electronic Resources for Moldova Consortium (REM Moldova)*

✓ OA policies

- adopted by 7 institutions (2012, ASEM)
- 8 OA policies included in [ROARMAP](#)

✓ Institutional Repositories

- established in 8 universities & 1 research organisation
- 7 repositories registered in [OpenDOAR](#)
- 8 repositories registered in [ROAR](#)



Coalition for **Open Educational Resources in Moldova**
established in 2016
(14 member-organisations)
<http://red.prodidactica.md>

RENAM
RESEARCH & EDUCATIONAL
NETWORKING ASSOCIATION
OF MOLDOVA



25TH
ANNIVERSARY
1999-2024

- 11 national research journals have been in open access since 2017 and remain open.
- The IBN platform hosts over 51,000 articles from 104 journals, with 16 included in Directory of Open Access Journals. (DOAJ)
- Eight open access policies have been adopted by institutions since 2012 and are listed in ROARMAP.
- Institutional repositories exist in eight universities and one research institute.
- Open Access Week has been organized annually since 2009, coordinated by REM Moldova.
- The Open Educational Resources Coalition was established in 2016, involving 14 organizations.

Open Access Week

organised annually since
2009

leader – Electronic
Resources for Moldova
Consortium (**REM** Moldova)

URL:

[https://www.eifl.net/country/
moldova](https://www.eifl.net/country/moldova)



- **Open Access policies** adopted by 7 institutions

- 8 Open Access policies included in **Registry of Open Access Repositories Mandatory Archiving Policies (ROARMAP)**

URL: <https://roarmap.eprints.org/1060/>



ROARMAP
Registry of Open Access Repository Mandates and Policies

Home About Browse Help Data Visualisations
Login | Create Account Search

Browse by Country

Up a level
Export as: EP3 XML Export

- Countries (UN Geoscheme) (12)
 - Europe (12)
 - Eastern Europe (12)
 - Republic of Moldova (12)

Number of items at this level: 12.

Policies Adopted by Quarter

15
12.5

Research organisation

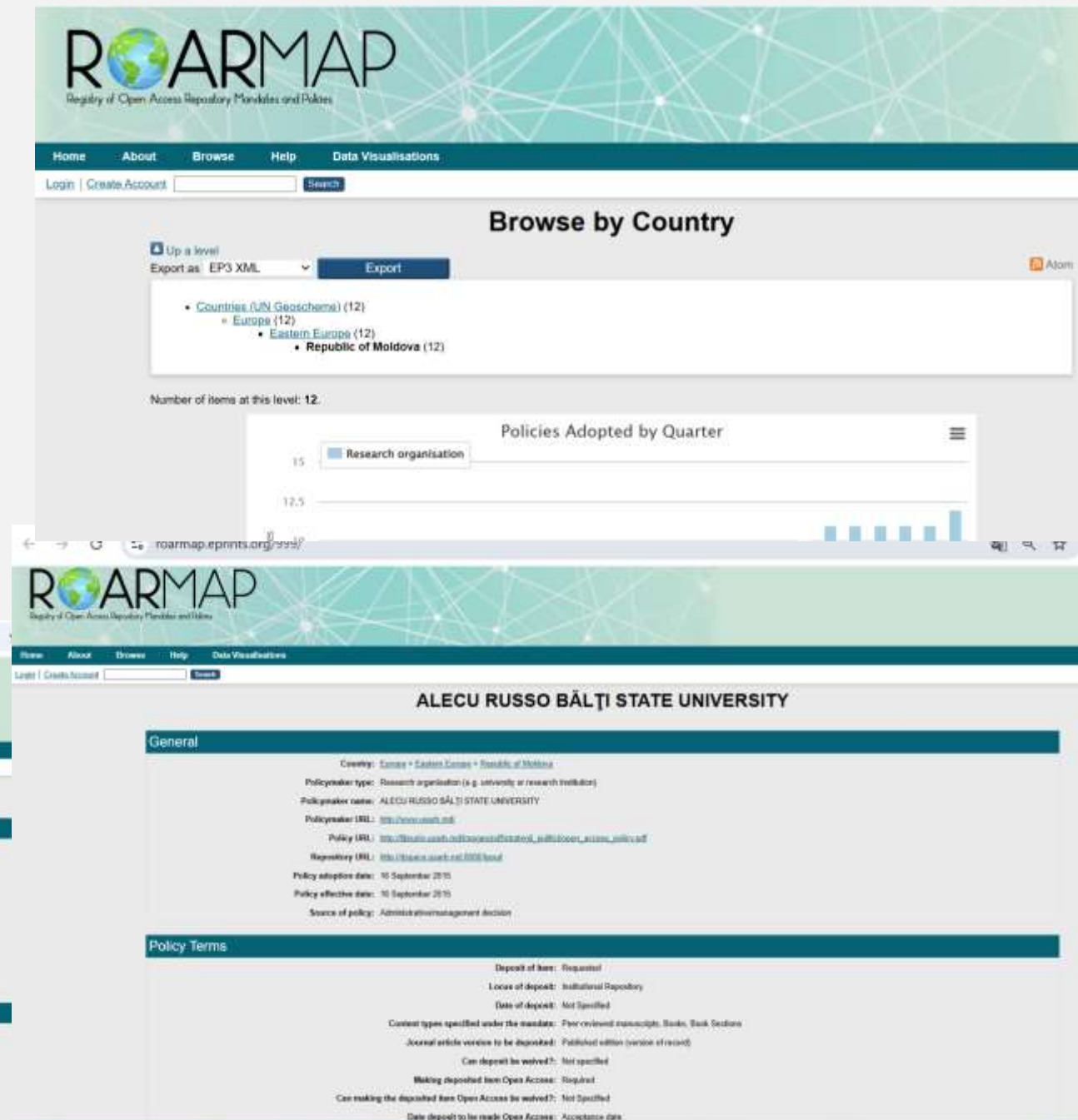
Academy of Economic Studies of Moldova

General

Country: Europe > Eastern Europe > Republic of Moldova
 Policymaker type: Research organisation (e.g. university or research institution)
 Policymaker name: Academy of Economic Studies of Moldova
 Policymaker URL: <http://aes.md>
 Policy URL: http://aes.md/files/publications/academic_repository_policy.pdf
 Repository URL: <http://aes.md/repo/>
 Policy adoption date: 24 December 2012
 Policy effective date: 24 December 2012
 Source of policy: Administrative management decision

Policy Terms

Deposit of item: Required
 Location of deposit: Institutional Repository
 Date of deposit: Not Specified
 Content types specified under the mandate: Peer-reviewed manuscript, Books, Book Sections, Data, Other
 Journal article version to be deposited: Published version (version of record)
 Can deposit be waived?: Not specified
 Making deposited item Open Access: Required
 Can making the deposited item Open Access be waived?: Not Specified



ROARMAP
Registry of Open Access Repository Mandates and Policies

Home About Browse Help Data Visualisations
Login | Create Account Search

Browse by Country

Up a level
Export as: EP3 XML Export

- Countries (UN Geoscheme) (12)
 - Europe (12)
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 - Republic of Moldova (12)

Number of items at this level: 12.

Policies Adopted by Quarter

15
12.5

Research organisation

ALECU RUSSO BĂLȚI STATE UNIVERSITY

General

Country: Europe > Eastern Europe > Republic of Moldova
 Policymaker type: Research organisation (e.g. university or research institution)
 Policymaker name: ALECU RUSSO BĂLȚI STATE UNIVERSITY
 Policymaker URL: <http://www.aib.md>
 Policy URL: http://aib.md/files/publications/academic_repository_policy.pdf
 Repository URL: <http://aib.md/repo/>
 Policy adoption date: 10 September 2015
 Policy effective date: 10 September 2015
 Source of policy: Administrative management decision

Policy Terms

Deposit of item: Required
 Location of deposit: Institutional Repository
 Date of deposit: Not Specified
 Content types specified under the mandate: Peer-reviewed manuscript, Books, Book Sections
 Journal article version to be deposited: Published version (version of record)
 Can deposit be waived?: Not specified
 Making deposited item Open Access: Required
 Can making the deposited item Open Access be waived?: Not Specified
 Date deposited to be made Open Access: Acceptance date

- Institutional Repositories

established in 8 universities & 1 research organisation

- 7 repositories registered in **global Directory of Open Access Repositories (OpenDOAR)**

- 8 repositories registered in **Registry of Open Access Repositories (ROAR)**

Registry of Open Access Repositories

Home About Search Browse

Login | New Entry | Create Account

Browse by Country

Up a level

Export as: Map

Graphical analysis Search Content

- Geoname Location (17)
 - Europe (17)
 - Moldova (17)

Group by: Repository Type | No Grouping

Jump to: Research Institutional or Departmental | Research Multi-institution Repository | e-Journal/Publication | Other

Number of items at this level: 17

Research Institutional or Departmental

Current Research Information System of the Technical University of Moldova: Universitatea Tehnică a Moldovei - 5 August 2021 [Record Details]

OpenDOAR

About

Directory

Support

Contact

Browse by Country and Region

View: by Name | by Software | Statistics

Jump to: A | D | I | T

Number of items: 13

A

Academia de Muzică, Teatru și Arte Plastice Repozitoriu Instituțional	Type: Institutional	Software: DSpace	Country: Moldova
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D

Digital Institutional Repository of Ion Creanga Pedagogical State University	Type: Institutional	Software: DSpace	Country: Moldova
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I

Institutional Repository Open Research Archive of Alecu Russo Bălți State University	Type: Institutional	Software: DSpace	Country: Moldova
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RENAM is National Research and Educational Network of Moldova

– is focused on continuous development of communication and information infrastructure of the scientific and educational community of the Republic of Moldova.

The main goal of RENAM network consists in continuous development of a modern electronic communication infrastructure capable to connect all research, educational, medical and cultural institutions from Moldova, and to provide them with Internet access services.

NATIONAL Research And Educational Network Provider

RENAM is providing services for scientific and educational organizations, personal members of scientific – educational community of Moldova



OVERALL OBJECTIVE:

To contribute to the strengthening of
Research Management and Open Science
capacities of HEIs in Moldova and Armenia

MINERVA

2019-2022

Strengthening Research Management and
Open Science Capacities of HEIs in Moldova and Armenia

16 PROJECT PARTNERS:

MOLDOVA 5 institutions

- 3 HEIs: Academy of Economic Studies of Moldova, State University of Medicine and Pharmacy, Technical University of Moldova
- Rectors' Council (2 HEIs involved: Free International University of Moldova, State University named D. Cantemir)
- Ministry of Education, Culture and Research of the Republic of Moldova

ARMENIA 5 institutions

- 4 HEIs: Yerevan State Medical University named after M. Heratsi, Armenian State University of Economics, State University of Armenia, Yerevan Brusov State University of Languages and Social Sciences
- Ministry of Education and Science of the Republic of Armenia

EU 6 institutions

- 5 HEIs: University of Liege (BELGIUM); Guglielmo Marconi University (ITALY); University of Valencia (SPAIN); University of Cote d'Azur (France); University of Montpellier (FRANCE)
- 1 NGO: European Policy Development and Research Institute of Maribor (SLOVENIA)

RESULTS:

R1.

- Advanced national and institutional guidelines, policies, and incentives related to the research and Open Science in Republic of Moldova and Armenia.

R2.

- Established digital repositories at all PCs' partner HEIs integrated to the Open Science platforms in each country in order to foster their infrastructural development and interoperability.

R3.

- Built human research capacities in order to ensure the sustainable implementation of open science principles and enhance the social inclusiveness and accountability of publicly-funded research

Strategic documents supporting Open Science activities at Comrat State University

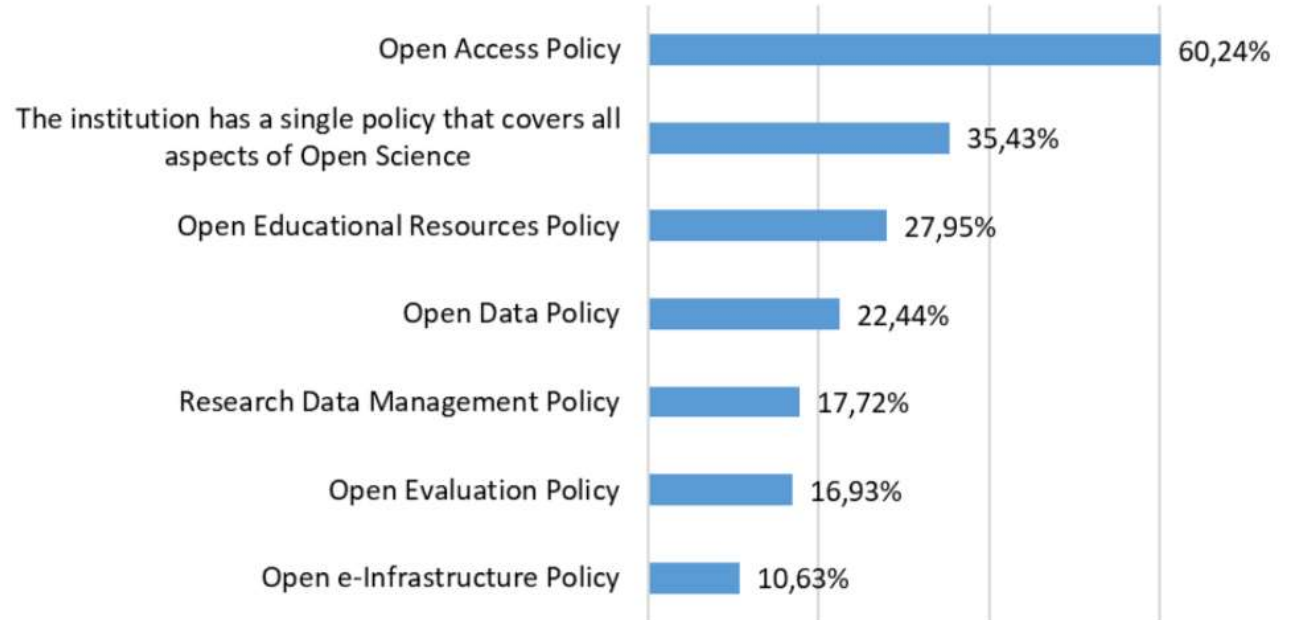
Document	Content related to Open Science
Strategic Development Program of Comrat State University 2023-2027 (Approved by the decision of the CSU Senate dated June 22, 2023)	The program includes objectives related to digitalization, the development of scientific publications, and international collaboration.
Internationalization Strategy of Comrat State University for 2020-2025 (Approved by the decision of the CSU Senate dated 07/09/2020)	Priority 3: Professional Development 3.4 Encouragement of staff for joint scientific research and publication of results in open access. 3.6 Organization of international scientific conferences and seminars, including online. 3.8 Encouragement of increased joint publications with foreign university scholars.
Regulations on the management of research activities and support of talents (Approved by the decision of the CSU Senate dated February 18, 2020)	VII. International Collaboration in Research Activities 7.1 Support for talented researchers by encouraging participation in international research projects.

Strategic documents supporting Open Science activities at Comrat State University

Document	Content related to Open Science
Guide to attracting foreign teachers and researchers to Comrat State University (Approved by the decision of the Senate of CSU dated 02/18/2020)	III. Criteria for selecting foreign specialists for research and teaching activities 3.1 The main criteria for selecting foreign specialists include a high academic reputation confirmed by publications in open, peer-reviewed journals, and collaboration with leading scientific centers. 3.2 Preference is given to specialists with partnerships with organizations promoting open science, participation in qualification programs, and a willingness to conduct innovative teaching events focusing on open science approaches.
Action plan of Comrat State University for integration in the European Research Area (ERA) (Approved by the decision of the CSU Senate dated 02/18/2020)	The plan aims to participate in European initiatives that actively support the principles of Open Science. It includes strengthening cooperation with European and international scientific institutions, contributing to the integration of open scientific practices.
Incentives policies for promoting research internationalization at Comrat State University (Approved by the decision of the CSU Senate dated 05/10/2023)	This document supports policies that promote open access, international collaboration, and the dissemination of research findings globally.

- However, Open Science in the Republic of Moldova has not yet been fully integrated into the national research and innovation ecosystem
- RESEARCH:
- Turcan, Nelly, et al. **"Readiness Toward the Implementation of Open Science Initiatives In the Republic of Moldova"** Central European Journal of Public Policy, vol. 17, no. 2, Sciendo, 2023, pp. 97-118. <https://doi.org/10.2478/cejpp-2023-0009>

What institutional policies on Open Science has your institution adopted?

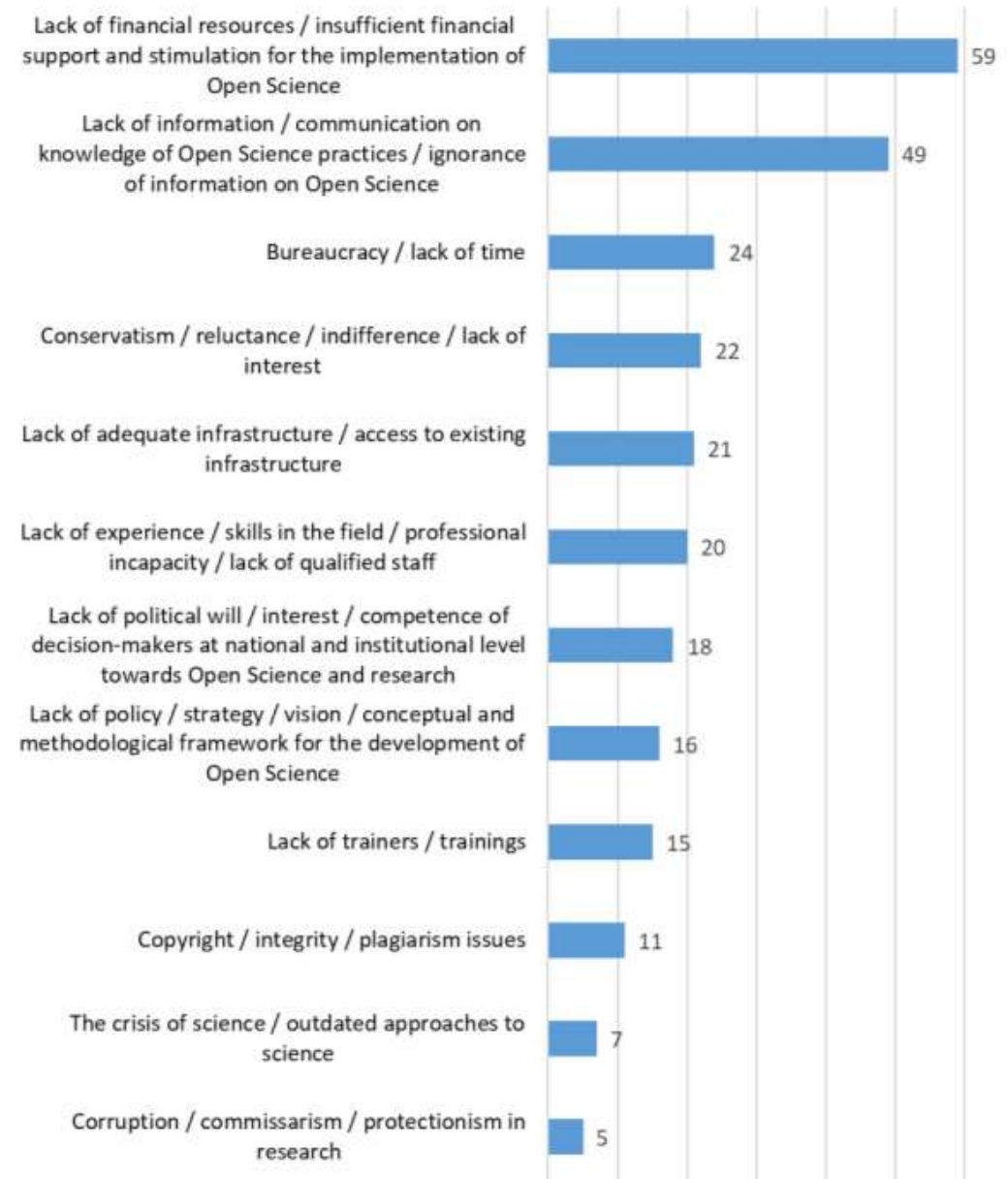


Source: Elaborated by authors based on the survey results

- The study aimed to assess the attitudes and awareness of the scientific community in the Republic of Moldova regarding Open Science practices through an online survey.
- The target population included researchers, academic and administrative staff, doctoral and postdoctoral fellows, librarians, and RDI decision-makers, with a total of 685 responses collected.

- **Barriers to Open Science transition**
- The figure shows that lack of funding is perceived as the most significant impediment to implementation of Open Science practices.
- The respondents consider it is imperative for both governments and institutions to fund and adopt better practices aimed at embedding Open Science in the research cycle in Moldova.

Fig. 7: Opinion on obstacles to the development of Open Science practices in research institutions and in the Republic of Moldova

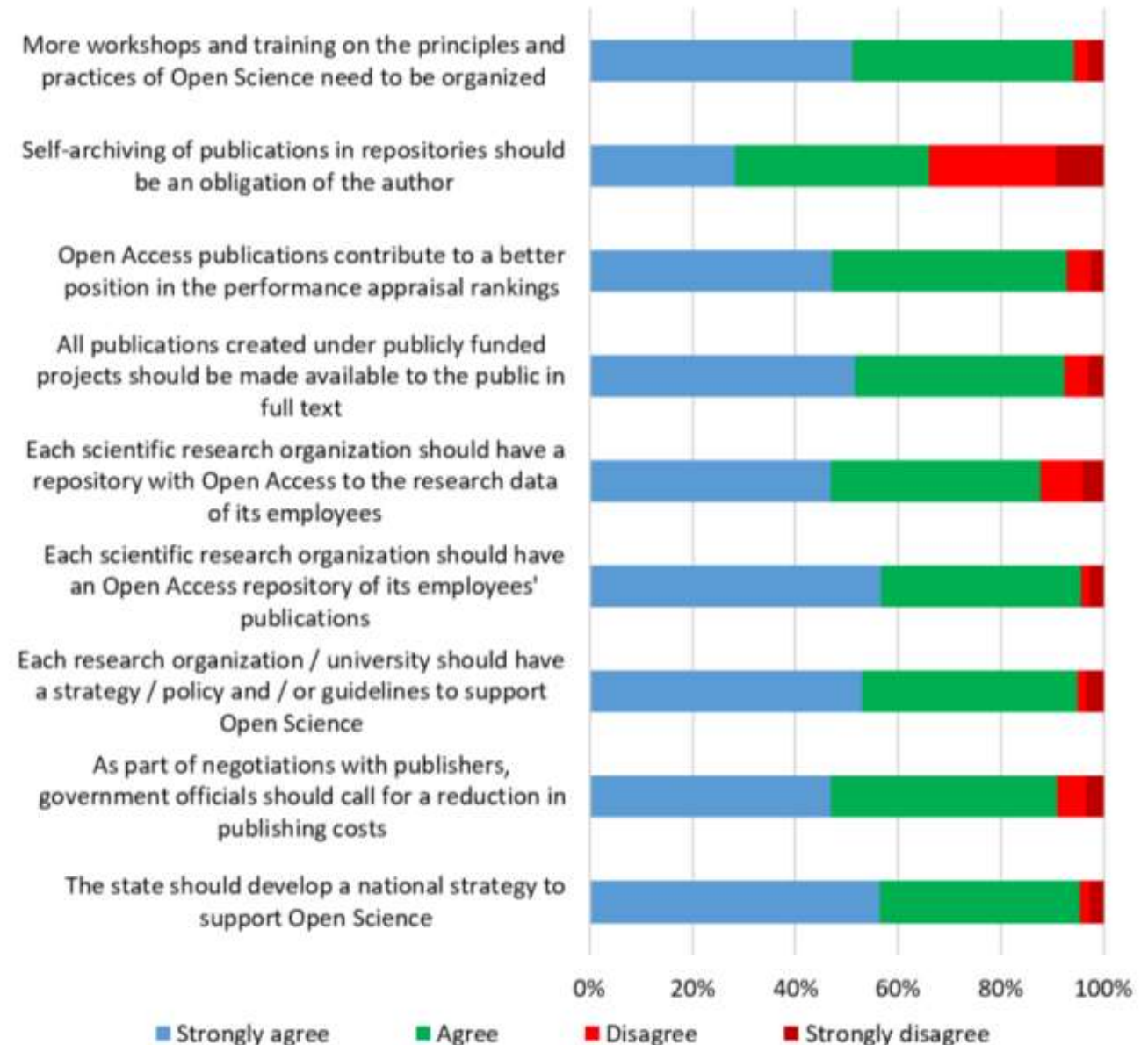


Source: Elaborated by authors based on the survey results

Opinions on the transfer of responsibility for Open Science implementation

- The study found that researchers expect state institutions, including the government, the Ministry of Education and Research, and the National Agency for Research and Development, to lead by example in adopting Open Science principles, particularly by ensuring access to research data and scientific publications from publicly funded projects.

Fig. 8: Opinions on the transfer of responsibility for Open Science implementation



Source: Elaborated by authors based on the survey results

CONCLUSIONS

- Both the opinions expressed by the representatives of the scientific community, as well by the interviewed experts from the Republic of Moldova confirm Open Science implementation as a national strategic priority could bring a series of benefits for the Republic of Moldova and contribute to research efficiency.
- *Open Access, access to educational resources, and open research data* were highlighted by researchers and academia as the top three most important Open Science components to be considered when developing a national or institutional policy or strategy.
- The interviewed key actors and decision-makers alike noted the importance of all *Open Science components*, ranking *Open Evaluation, Open Education, and Research Data Management* as top priorities.

