

The transition to Open Science A Research Assessment Perspective

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Structure

- **Strategic framework**
- **From policy to practice**
- **Broadening perspectives & Future steps**

National strategic framework for Open Science

The White Paper of the Transition to Open Science (2023-2030)

GUVERNUL ROMÂNIEI



HOTĂRÂRE

privind aprobarea Strategiei Naționale de Cercetare, Inovare și Specializare 2022-2027

În temeiul art. 108 din Constituția României, republicată, și al art. 3 alin. (2) din Guvernului nr. 57/2002 privind cercetarea științifică și dezvoltarea tehnologică, modificări și completări prin Legea nr. 324/2003, cu modificările și completările ulterioare,

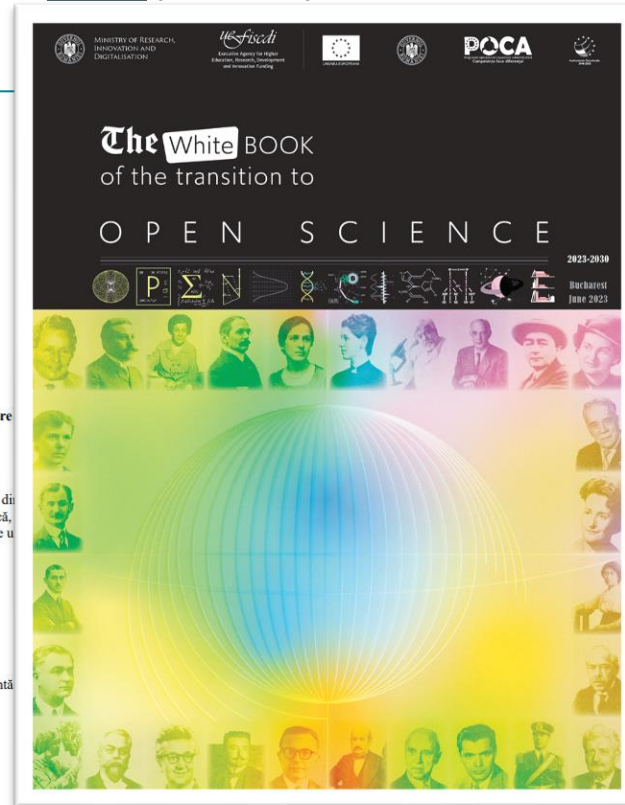
Guvernul României adoptă prezenta hotărâre:

Articol unic


Se aprobă Strategia Națională de Cercetare, Inovare și Specializare Inteligentă prevăzută în anexa care face parte integrantă din prezenta hotărâre.

**PRIM-MINISTRU,
NICOLAE-IONEL CIUCĂ**

The National Strategy for RDI and RIS3 2022-2027(20 July 2022)



GUVERNUL ROMÂNIEI



HOTĂRÂRE

privind aprobarea Planului Național de Cercetare, Dezvoltare și Inovare 2022-2027

În temeiul art. 108 din Constituția României, republicată și al art. 45 din Ordonanța nr. 57/2002 privind cercetarea științifică și dezvoltarea tehnologică, aprobată cu modificări și completări prin Legea nr. 324/2003, cu modificările și completările ulterioare,

Guvernul României adoptă prezenta hotărâre:

Se aprobă Planul Național de Cercetare, Dezvoltare și Inovare 2022-2027, prevăzut în anexa care face parte integrantă din prezenta hotărâre.

**PRIM-MINISTRU,
NICOLAE-IONEL CIUCĂ**

The National Plan for Research, Development and Innovation 2022-2027 (Sep. 2022)

Results of the consultation on the Green Paper on the Transition to Open Science 2022-2030

Recommendations	High and very high relevance (%)	Medium relevance (%)	Low and very low relevance (%)
1. Ensuring OA to scientific publications resulting from publicly funded research	89	8	3
2. FAIR Research data management and ensuring open access to research data	84	12	4
3. Ensuring transparency, equity of OA publishing costs (APCs) and of the costs of accessing international scientific databases	89	6	5
4. Developing the infrastructure and services for OS&EOSC	88	7	5
5. Establishing a long-term governance for the transition to OS	80	13	7
6. Capacity building to implement open science	87	8	5
7. Adapting the process of research assessment and rewarding in the new context of open science	88	8	4
8. Citizen science	66	23	11

Source: Report on the results of the consultation on the Green Paper on the Transition to Open Science 2022-2030: <https://www.open-science.ro/resurse/raport-al-rezultatelor-consultarii-privind-cartea-verde-a-tranzitiei-catre-stiinta-deschisa-2022-2030>

VISION

Supporting a systemic transformation towards open science is necessary and aligns with European policies stemming from digitalisation and technological changes that have influenced the conduct and organization of scientific research, as well as the participatory role of society in knowledge production.

By 2030, the research culture will undergo a transformative process towards openness, reusability, and replicability of research results, enhancing transparency, quality, and the efficiency of research. This transformation will enrich knowledge, accelerate innovation, and provide solutions to major societal challenges.

In 2030:

Open access to scientific publications resulting from research funded by national public funds becomes a common practice applied by researchers.

The scientific publishing system becomes more efficient and dynamic, benefiting from a transparent and equitable framework for the costs of open access publishing and access to international publications.

Research data management in accordance with FAIR principles is a standard for publicly funded research, and open data access is ensured while respecting the principle "as open as possible, as closed as necessary".

This transformation will enrich knowledge, accelerate innovation, and provide solutions to major societal challenges.

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Digital infrastructures, services, and repositories for open science are developed to enable free access, visibility, sharing, reuse, and long-term preservation of research results in digital format.

The evaluation of researchers' careers, research projects, and research institutions adapts to consider open science practices. The adoption of open science practices is not only encouraged and assessed but also professionally recognized and rewarded.

Citizens have access to scientific results and participate in various stages of the research process, such as data collection (citizen science), strengthening the relevance of research in addressing societal challenges and society's trust in science and innovation.

Research Assessment and Open Science

<https://zenodo.org/records/>



Country

Romania

Organisation

Executive Agency for Higher Education, Research, Development, and Innovation Funding (UEFISCDI)

Key facts

- Increase recognition of more diverse range of Open Science-specific research activities and results
- 20 organisations from Romania have committed to the Agreement on Reforming Research Assessment, abandoning single dimension metrics like the Journal Impact Factor
- Increase the capacity of cloud infrastructures through synergies between national research and innovation funds and structural development funds: <https://www.pocresearch.gov.ro/uploads/competitii/rezultate-competitii/actiunea-1-1-2/2020/rezultate-finale-selectie-poc-398.pdf>

Website

<https://www.open-science.ro>
<https://uefiscdi.gov.ro/ro/rosci>
<https://www.open-science.ro/resurse/the->

White Book of the Transition to Open Science (Objective 7)

Objective 7 of the Strategic Document on the Framework for Open Science Development in Romania addresses the research assessment process. The objective requests revising the current evaluation system to incentivise open science practices, such as early sharing of research findings, collaborative efforts, and free access to research results. The goal is to update the evaluation criteria to encompass a broader spectrum of research activities and outcomes.

This initiative targets researchers, research organisations, and funding bodies with the aim of nurturing a research environment which values and promotes Open Science principles. The strategy outcome aims for a more inclusive evaluation system by 2026 that recognises and rewards a diverse range of Open Science-specific research activities and results. In addition, acknowledging a wider array of research outputs and activities further promotes inclusivity and diversity in academic contributions.

For researchers, this objective offers opportunities to enhance the visibility and impact of their work through transparent and collaborative research approaches.

Source:

Brochure of Use Cases on EOSC and Open Science

Objective 7 – White Book on OS

- **Reviewing current** research assessment processes (researchers, projects, and research organizations)
- **Developing existing or new evaluation practices, methods, tools, and criteria**, in collaboration with research communities (through **co-creation exercises and pilot projects**)
- **Monitoring and periodically reviewing** the implemented evaluation processes
- Maintaining **continuous & transparent** communication of information regarding the evaluation process, methodologies, tools, and criteria, and **involving all relevant stakeholders** in their review.
- Implementing supportive actions
(national TFs/ WGs to facilitate the dialogue and consultation process, clear guidelines)

From policy to practice

- Piloting OPUS RAF
- In a specific funding instrument
“Centers of Excellence”

OS practices & RDM

- Describe how open science practices (e.g. Open Access to publications⁶, research data management, citizen science, and other⁷) are implemented and show how their implementation is adapted to the nature of work, therefore increasing the chances of the project delivering on its objectives. *If proposers believe that none of the open science practices apply to their project, please provide a justification.*
- Describe the practices for research data management (RDM)⁸ used in the project in line with FAIR principles (Findable, Accessible, Interoperable and Reusable). Should the proposal be funded, a plan for data management (DMP - Data Management Plan) will be developed in the consortium within the first 6 months of implementation.

Application form

OS practices & RDM –
Implementation Criteria

Work plan and schedule

- *the expertise level of researchers nominated in the project team is good and well-correlated with their contribution in the project;*
- *the proposed activities, deliverables and milestones are well structured and ensure the achievement of the proposed objectives and expected results, with adequate means of verification and contingency plans;*
- *the responsibilities of the people involved are adequately described, including new necessary staff positions;*
- *the Gantt diagram is realistic;*
- *the research agenda is updated based on public consultation with industry, NGOs, citizens and public authorities as potential users of the research results;*
- *the Open Science practices are well demonstrated;*
- *the research data management is convincing and in compliance with the FAIR principles;*
- *throughout the project implementation, gender equality, inclusion and diversity are ensured by all organisations involved in the consortium;*
- *the ethical issues are appropriately addressed (if applicable).*

Evaluation criteria

Challenges/ lessons learnt (so far)

Cultural & procedural

Takes time! Plan, testing, feedback, improve/ mitigate

Additional staff effort

- What to do?
- With what resources?

Need for awareness on multiple levels

Need for capacity building (literacy) on multiple levels

- Program managers – program officers
- Researchers
- Ensuring coherence of institutional changes and make them easy to understand

Who is responsible, can deliver trainings?

- make the capacity building support coherent & easy to understand



**Currently – over 1000
members**



Join Open-Science Community in BrainMap



 stay up to date

 get involved

 attend events

The online community of researchers, innovators, technicians and entrepreneurs

56.265 accounts



<https://www.brainmap.ro>

Brainmap Communities

Open-Science Community



Mrs. Alina IRIMIA

PhD



UEFISCDI ID (UEF-ID):

U-2300-070A-3192

Romania

SKILL TAG

SKILL MAP

RESEARCH OUTPUTS



Community updates

Latest Open-Science events

[Rethinking Research Assessment Conference](#)

[Romania National Roadshow](#)

[Adunarea Generală RO-NOSCI](#)

Latest Open-Science topics

[Citizen Science](#)

[Open Access \(OA\)](#)

[Data Management Plan \(DMP\)](#)

Data Management Plan (DMP)

This has 6 resources

Open Access (OA)

This has 8 resources

Research data management (RDM)

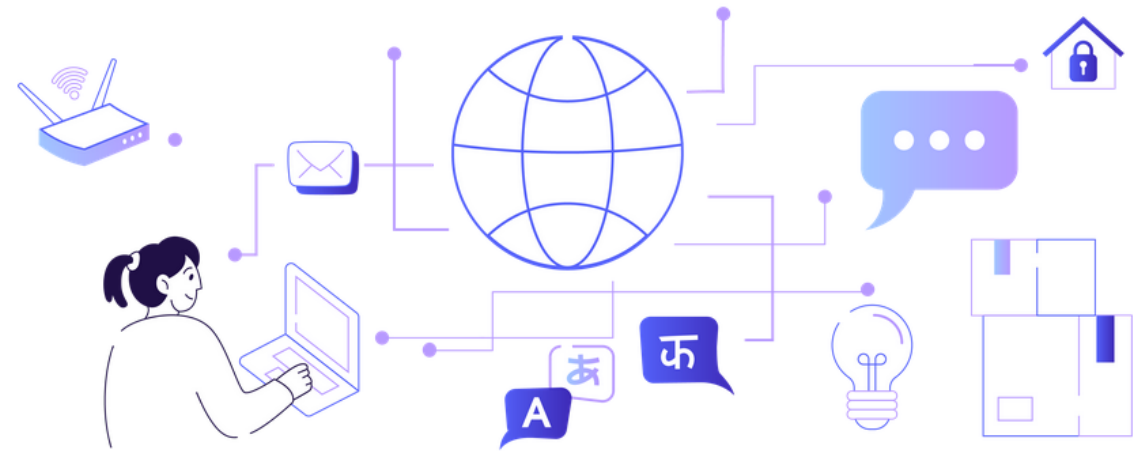
This has 2 resources

Citizen Science

This has 9 resources

Research Assessment

This has 3 resources



This section provides a selection of the most relevant topics related to Open Science. Community members may contribute to this section, by adding comments, insights or links to relevant materials associated to each topic.

Brainmap Communities

Open-Science Community

OS national portal

<https://www.open-science.ro>

- Resources
- <https://www.open-science.ro/resurse-open-science>

OPEN SCIENCE KNOWLEDGE HUB

Biblioteca Open Science

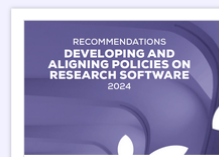
Secțiunea pune la dispoziție o selecție de documente de referință, revizuite și actualizate în funcție de dinamica internațională și documente suport elaborate de către Open Science Knowledge Hub



Mai multe ↓

Categorii documente

- [Știința deschisă în Orizont Europa](#)
- [Rapoarte Comisia Europeană](#)
- [Initiative strategice relevante](#)
- [Documente OSKH RO](#)
- [Regulamente europene](#)
- [Recomandări strategice și politici](#)
- [Studii și analize](#)
- [Directive europene](#)
- [Articole și cărți](#)
- [Rapoarte europene și internaționale](#)
- [Declarații și manifeste](#)
- [Ghiduri și documente informative](#)



Elaborarea și alinierea politicilor privind software-ul de cercetare: Recomandări pentru finanțarea cercetării și organizațiile care desfășoară activități de cercetare



The White Book of the Transition to Open Science



Ghid pentru implementarea strategiei de păstrare a drepturilor de autor pentru publicațiile științifice



Broader framework & future steps

- Action Plan CoARA
 - Taking stock + Identifying direction
- Research assessment @institutional level
- Piloting new Researcher profile + Openness profile

Action Plan of UEFISCDI for implementing the commitments of the Agreement on Reforming Research Assessment

- Work in progress
- Taking stock
- Complex internal process for consultation



Exploring performance-based research funding mechanisms for universities in Romania

- Looking outside
- Looking inside
- Consultation & co-creation
- Critical mass for driving a transformation process



Testing new Researcher profile incl. Openness section

- Use of OPUS RAF
- Narrative CV elements
- Broader list of contributions to (Open) Science
- Mock-up to be tested with Researchers (incl. Openness profile)



Mr. [Redacted]
PhD., Habil.

Professor - UNIVERSITATEA NAȚIONALĂ DE [Redacted]

Other affiliations

Scientific researcher 1st degree - INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE IN [Redacted] (Romania)

Researcher | Teaching staff | Scientific reviewer | Entrepreneur

>20 years

Web of Science ResearcherID: B-5687-2011

Personal public profile link. Curriculum Vitae (21/03/2023)

Summary: e.g. Molecular biologist with over 10 years of research experience in genetic engineering, protein expression, and cellular signaling pathways. Skilled in advanced laboratory techniques, including CRISPR-Cas9, qPCR, and next-generation sequencing. Proven track record of published peer-reviewed articles and successful grant applications. Dedicated to advancing scientific knowledge and fostering collaborative research initiatives. Holds a PhD in Molecular Biology from [University Name]. Passionate about mentoring the next generation.

Main achievements:

Contributions brought such as: major research contributions, e.g. contributions to new theories, knowledge and tools under different formats (different types of research results); impact on the field - how research has influenced professional practices, policies, or industry standards and to the broader society; mentorship and teaching; leadership and collaboration; patents and commercialization

Expertise & keywords

- Big data
- Distributed systems
- Distributed computing
- Distributed and parallel computing
- Internet of things
- Numerical methods
- Numerical algorithms
- Numerical estimation
- Experimental and numerical modelling
- Optimization
- Computational physics
- Numerical modelling
- Quantum mechanics

Projects

Research

Openness profile

Education

Leadership

Innovation

Communication & Engagement

Entrepreneurship

Marketplace for technology transfer of R&I data, software and results

Call name: P 3 - SP 3.5 - Proiecte EUREKA Tradițional (Network), EUREKA-Cluster, Eurostars

[Reviewer section](#)

PN-III-P3-3.5-EUK-2019-0241 2021 - 2024

Role in this project: Key expert

Coordinating institution: _____

Project partners:

Affiliation:

Questions/ Discussion

Thank you!



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