

OS-FAIR support at national level

FAIR-IMPACT Roadshow Romania
Collaborative FAIR Data Practices & Tools
October 8th, 2024

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Open Science Projects coordinator, UEFISCDI

NATIONAL

CONTEXT

INTERNATIONAL



OS-FAIR support at national level

- OS strategic framework
- From policy to practice
- OS community

NATIONAL

CONTEXT

INTERNATIONAL



National strategic framework for Open Science

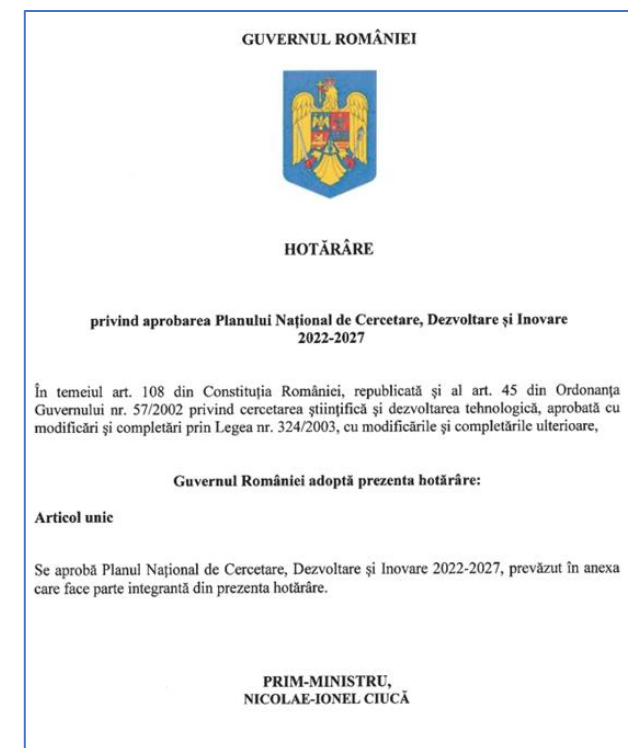
The National Strategy for RDI and RIS3 2022-2027(Governmental Decision no. 933 of 20 July 2022)



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



The National Plan for Research, Development and Innovation 2022-2027(Governmental Decision no. 1188 of 29 Sept. 2022)



National Strategy for RDI & RIS3 2022-2027

Objective 1.2. Ensuring the transition to open science and facilitating the road towards excellence in scientific research

Core strategic actions

- Mandatory OA to the scientific publications resulting from publicly funded research
- DMPs (Mandatory)
- RDM costs – eligible
- Data: FAIR & “as open as possible, as closed as necessary
- Infrastructure & services -> EOSC
- Rethinking the research assessment system
- Promotes citizen science



Law 179/2022 on open data and the reuse of information from the public sector

DIRECTIVE (UE) 2019/1024 of the European Parliament and of the Council of 20 June 2019 on open data and the re-use of public sector information

Article 13 (1)

“open access policies respect the ‘open by default’ principle and are **compatible with FAIR principles**: Findable, accessible, interoperable, and reusable, in accordance with the Marrakech Agreement establishing the World Trade Organization, ratified by Romania through Law no. 133/1994”

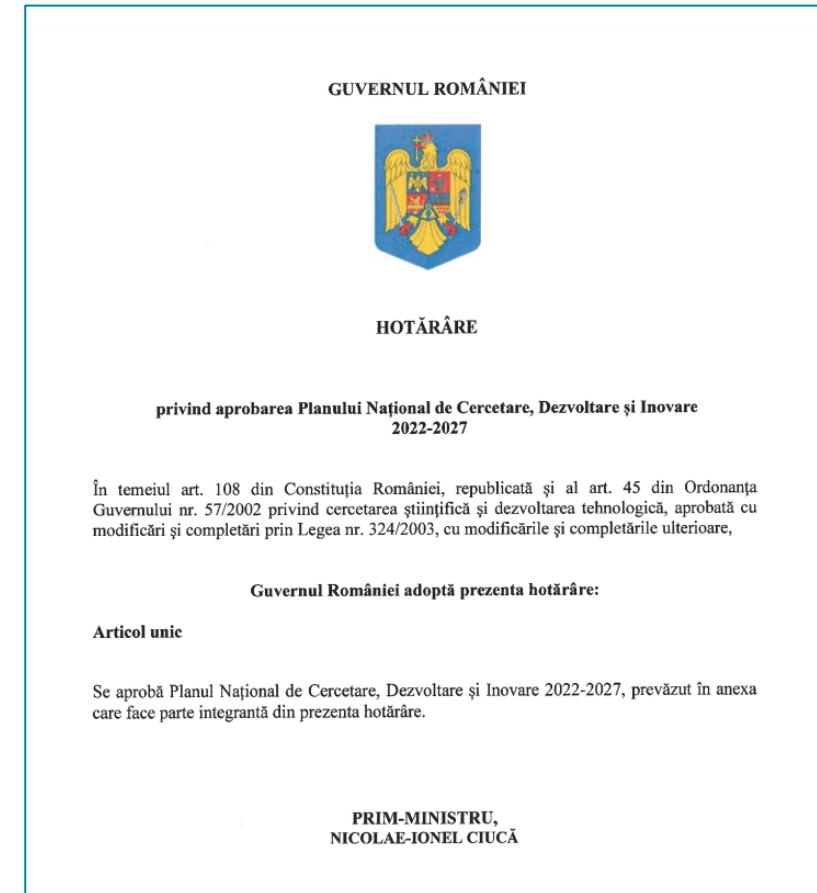
<https://www.open-science.ro/resurse/legea-179-2022-privind-datele-deschise-si-reutilizarea-informatiilor-din-sectorul-public>

The National Plan for RDI 2022-2027

Main instrument for implementing the [National RDI& RIS3 Strategy 2022-2027](#).

Types of support/ projects proposed to be funded

- Developing the **institutional capacity** to implement open science practices - ensure alignment with the European Union's recommendations and policies on OS;
- Grants for the **development of skills** needed to implement open science;
- **APCs & RDM costs- eligible** in all projects funded;
- Supporting the participation of Romania and the relevant infrastructure & services in/ for the development of **EOSC**;
- Grants of support for implementation - OS practices (OA and **FAIR data**);



Governmental Decision no.1188/ 29 September 2022

Other types of support

The FDI (Institutional Development Fund) aims to support institutional development projects at public universities in Romania, funded from the Ministry of Education's budget, with the purpose of increasing institutional capacity and improving the quality of the national higher education system.

Domain 6: Development of institutional capacity for research in higher education institutions.

OG 6.6. Support for activities carried out by higher education institutions for the development of university research:

- Support for universities aimed at developing institutional capacity for the implementation of open science practices.

FDI



<https://www.cnfis.ro/finantare/dezvoltare-institutionala/competitia-fdi-2024/>

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".

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.



MINISTRY OF RESEARCH,
INNOVATION AND
DIGITALISATION

U&Fiscali

Executive Agency for Higher
Education, Research, Development
and Innovation Funding



UNIONA EUROPEANA



ROMANIA

POCA

Programul Național de Cercetare Științifică și Inovatoare

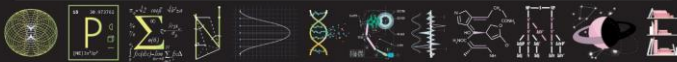


ROMANIA

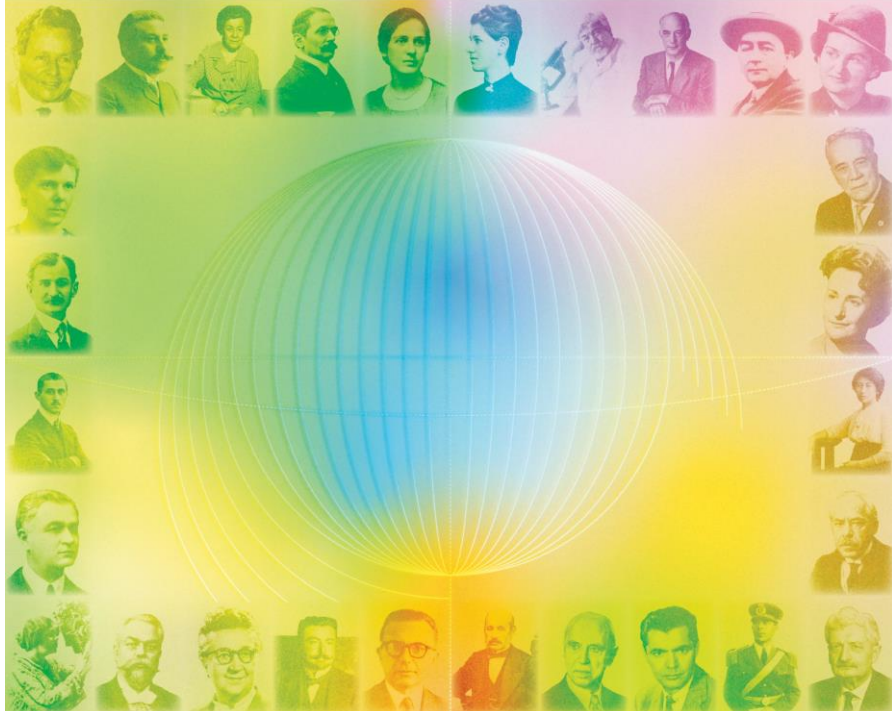
The White BOOK
of the transition to

O P E N S C I E N C E

2023-2030



Bucharest
June 2023



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

Objective 2. Managing Research Data and Ensuring Open Data Access

Research data management should become a standard scientific practice during the research process when generating, collecting, or reusing data. Data management and responsible data handling should be based on a data management plan, ensuring compliance with FAIR principles, and open access should be provided while respecting the “as open as possible, as closed as necessary” principle.



2.1. The introduction of the mandatory development and continuous updating of data management plans, in compliance with FAIR principles and open access to data, starting with the new funding cycle, for all research projects that generate, collect, or reuse publicly funded data, and monitoring compliance with these requirements. It is recommended that the data management plan be openly accessible, except when legitimate reasons exist for keeping it confidential. If made public, it is recommended to apply the CC BY license to allow broad reuse.

2.2. Ensuring open access to stored data as soon as possible and within the deadlines set in the plan - through a digital repository³⁴ and applying the most recent available version (preferably) of the “Creative Commons Attribution International Public License” (CC BY or CC0) or an equivalent license. According to the provisions of Article 13 (1) of Law 179/2022 on open data and the reuse of information from the public sector, “open access policies respect the ‘open by default’ principle and are compatible with FAIR principles: findable, accessible, interoperable, and reusable, in accordance with the Marrakech Agreement establishing the World Trade Organization, ratified by Romania through Law no. 133/1994”. “Ensuring open access to data is done in accordance with the principle of ‘as open as possible, but as closed as necessary,’ taking into account intellectual property rights, personal data protection, privacy, security, and legitimate commercial interests.” This means that, as an exception, beneficiaries can or must keep certain data closed for justified reasons (explicitly stated in the data management plan).

2.3. Metadata related to stored data should be openly accessible under the “Creative Common Public Domain Dedication (CC0)” license or an equivalent, following FAIR principles (especially to make them “machine-actionable”).

2.4. Research data should adhere to FAIR principles and be easily identifiable through persistent and unique identifiers - PID (most commonly using DOI - Digital Object Identifier) and should be linkable to other datasets and publications through appropriate mechanisms³⁵.

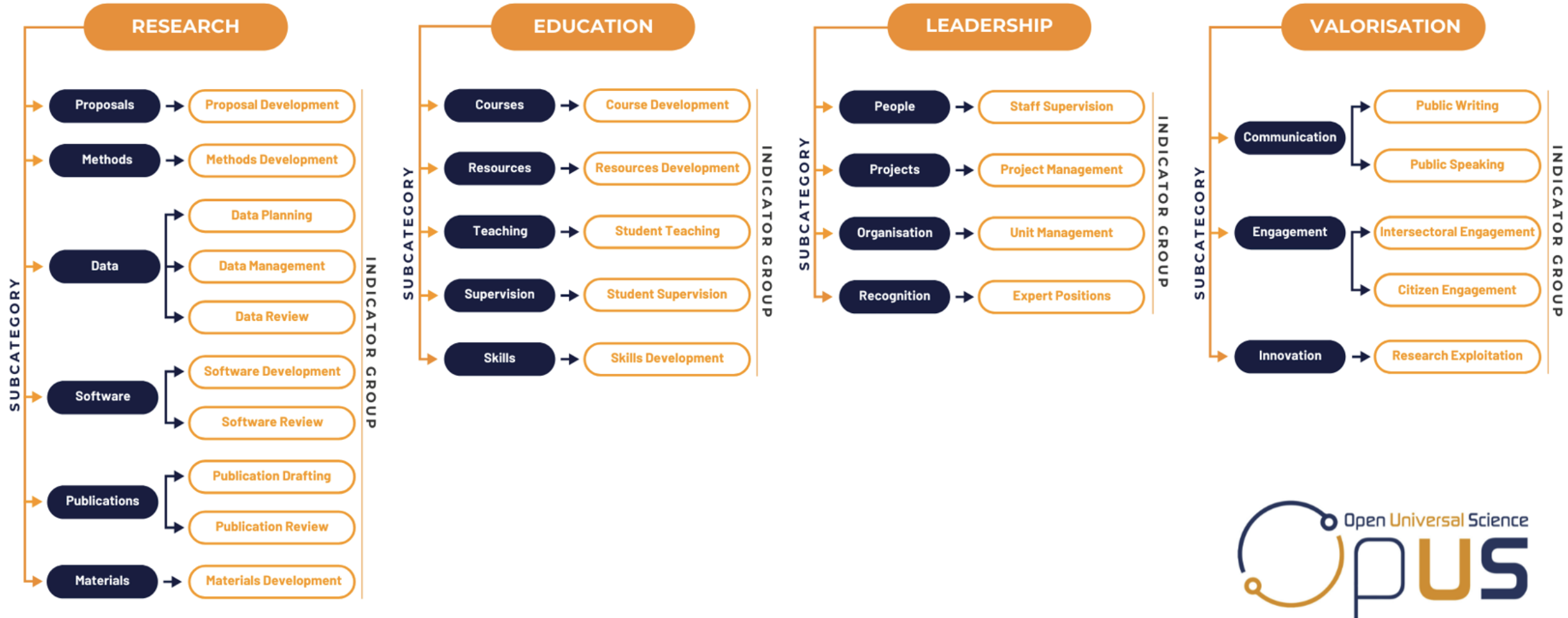
2.5. Costs associated with the management of research data should be eligible in the funding contracts for publicly funded research projects.

2.6. It is recommended to manage and provide open access to other research outcomes besides research data, such as software³⁶, models, algorithms, workflows, protocols, simulations, electronic lab notes, in compliance with FAIR principles and open access (as far as possible).

From policy to practice

- DMPs requirements & RDM evaluation criteria – **PILOT** ([OPUS Project](#))
- Rethinking research assessment – national discussion
- Data interoperability in health – Veles Project
- Defining recommendation for Curricula & training to develop the OS (related) skills

OPUS Researcher Assessment Framework



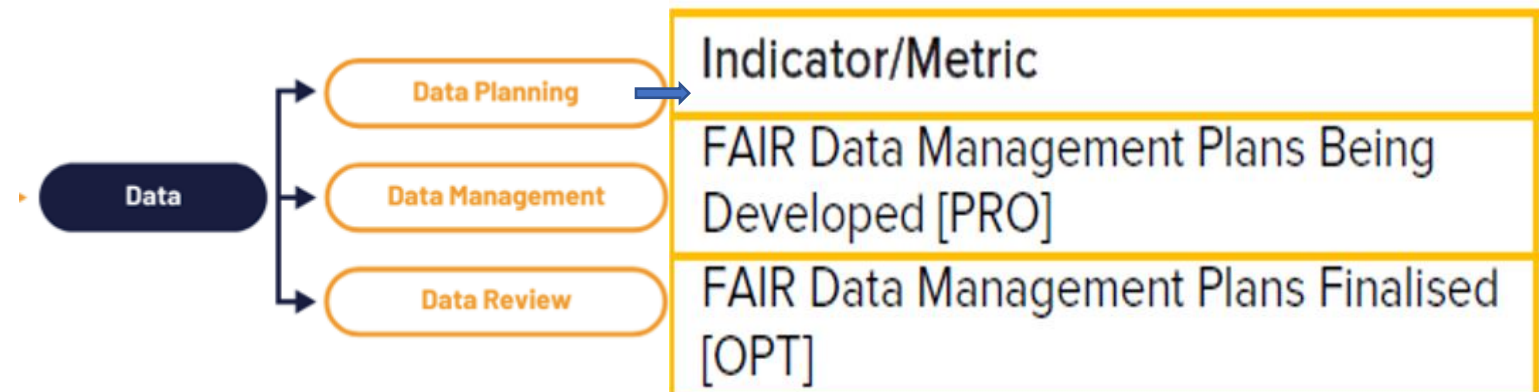
Broader aim

- Support implementation of FAIR & OS at national level according to the national OS strategic framework
- Introduce OS & FAIR requirements in publicly funded research projects.

Scope of OPUS pilot

The pilot at UEFISCDI is embedded in the **National Research, Development, and Innovation Funding Programme on 'Centres of Excellence'**

Pilot duration: 18 months – starting Jan. 2024





Centres of Excellence (CoE) funding call

230 mil. Euro budget

The programme is expected to fund up to 20 projects

Purpose

- Consolidation of Romanian scientific research by establishing **partnerships** in areas of demonstrated scientific excellence of research organizations, in order to form a **critical mass of researchers** and the **interdisciplinarity** needed to address some challenges from the Strategic Research Agenda.

OS practices & RDM – part of Implementation requirements

Funding Application - PN-IV-PRO-CoEx-2024-1

<https://uefiscdi.gov.ro/resource-867720-Section-BCoEx.docx>

- 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.

Evaluation sheet

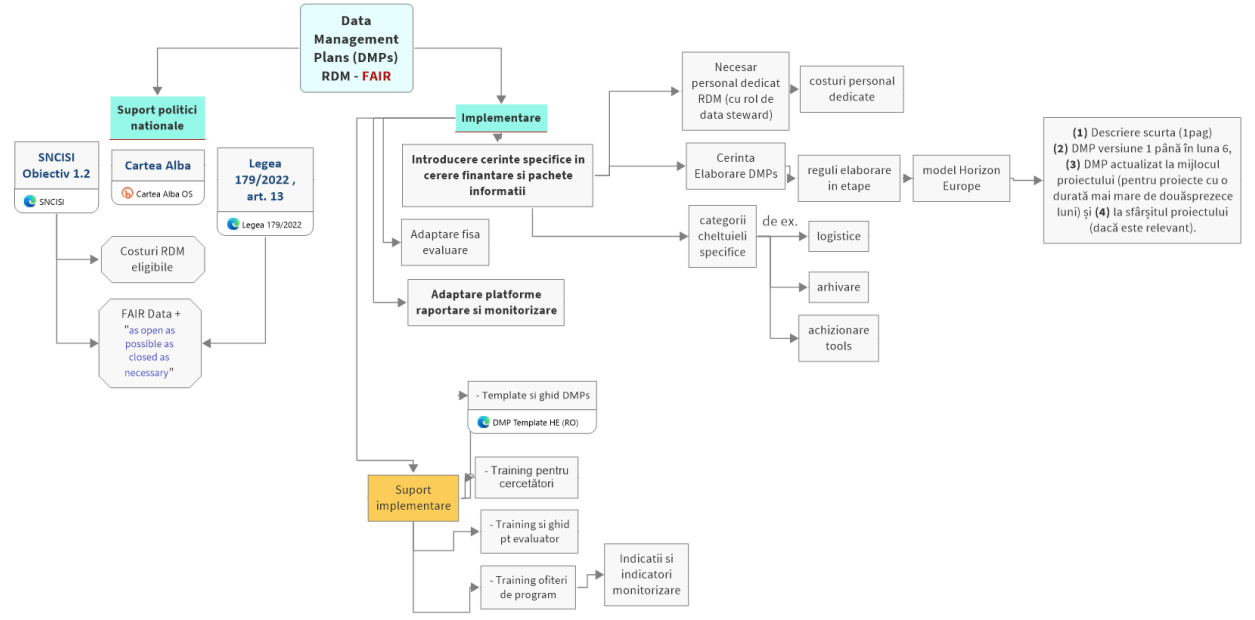
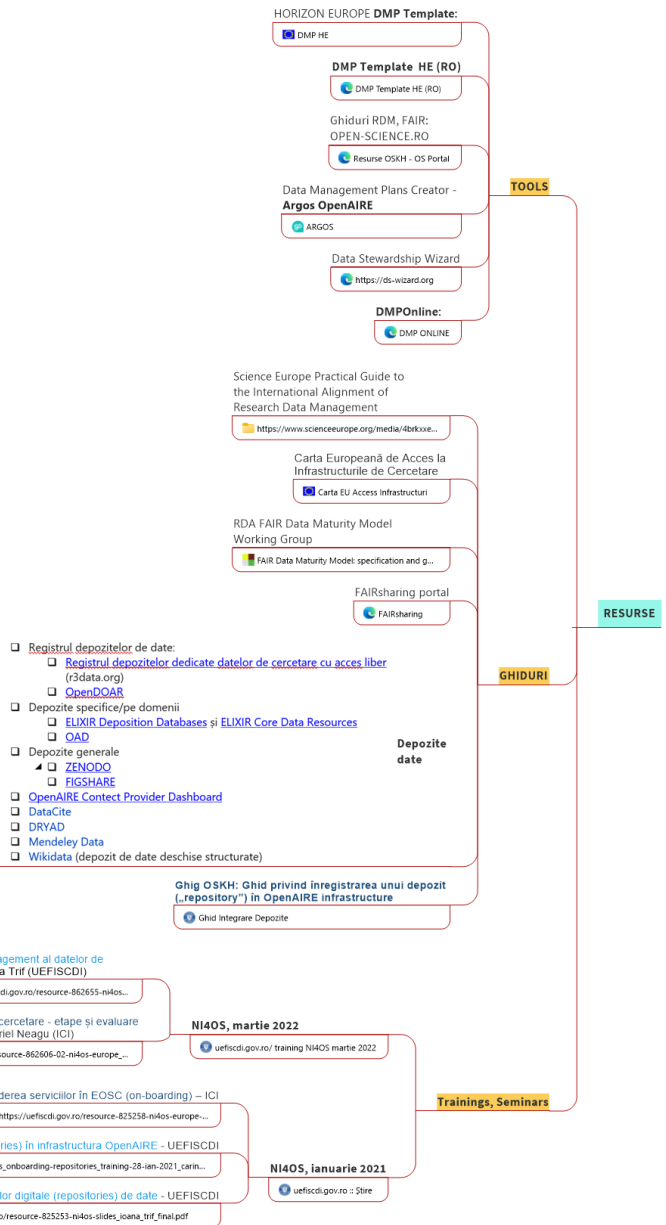
<https://uefiscdi.gov.ro/resource-867381-Fisa-evaluareCoEx.pdf>

Criterion 3: Implementation

(20%)

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).*



Implementation steps

Policies

Data Management Plans (DMPs)
RDM - FAIR

Support politici nationale

SNCISI
Obiectiv 1.2
SNCISI

Cartea Alba
Cartea Alba OS

Legea 179/2022, art. 13
Legea 179/2022

Costuri RDM eligibile

FAIR Data +
"as open as possible as closed as necessary"

Implementare

Introducere cerinte specifice in cerere finantare si pachete informatii

Adaptare fisa evaluare

Adaptare platforme raportare si monitorizare

Support implementare

- Template si ghid DMPs
DMP Template HE (RO)

- Training pentru cercetatori

- Training si ghid pt evaluator

- Training ofiteri de program

Indicatii si indicatori monitorizare

Necesar personal dedicat RDM (cu rol de data steward)

costuri personal dedicate

Cerinta Elaborare DMPs

reguli elaborare in etape

model Horizon Europe

categoriile cheltuieli specifice

de ex.

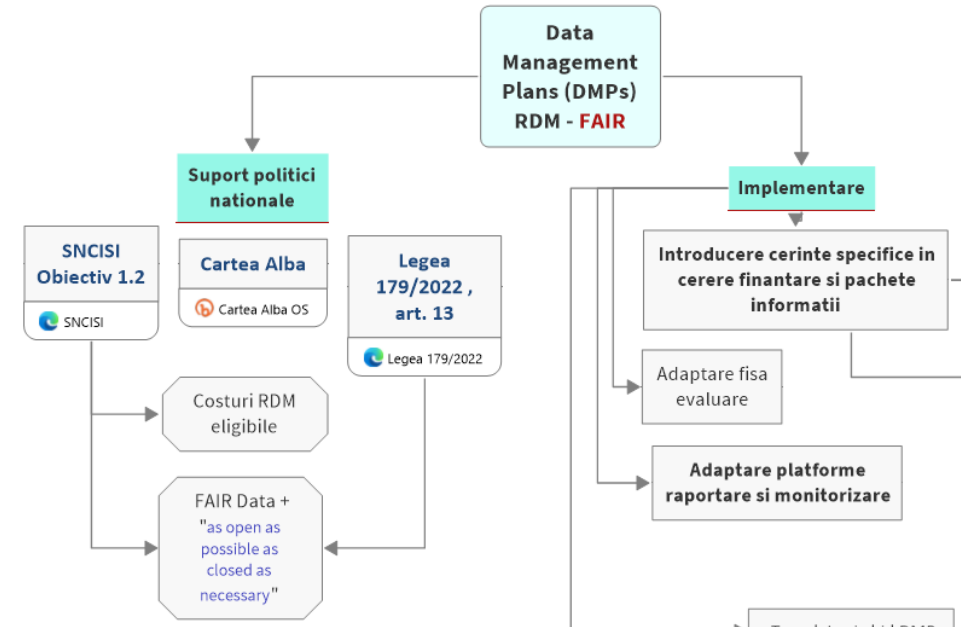
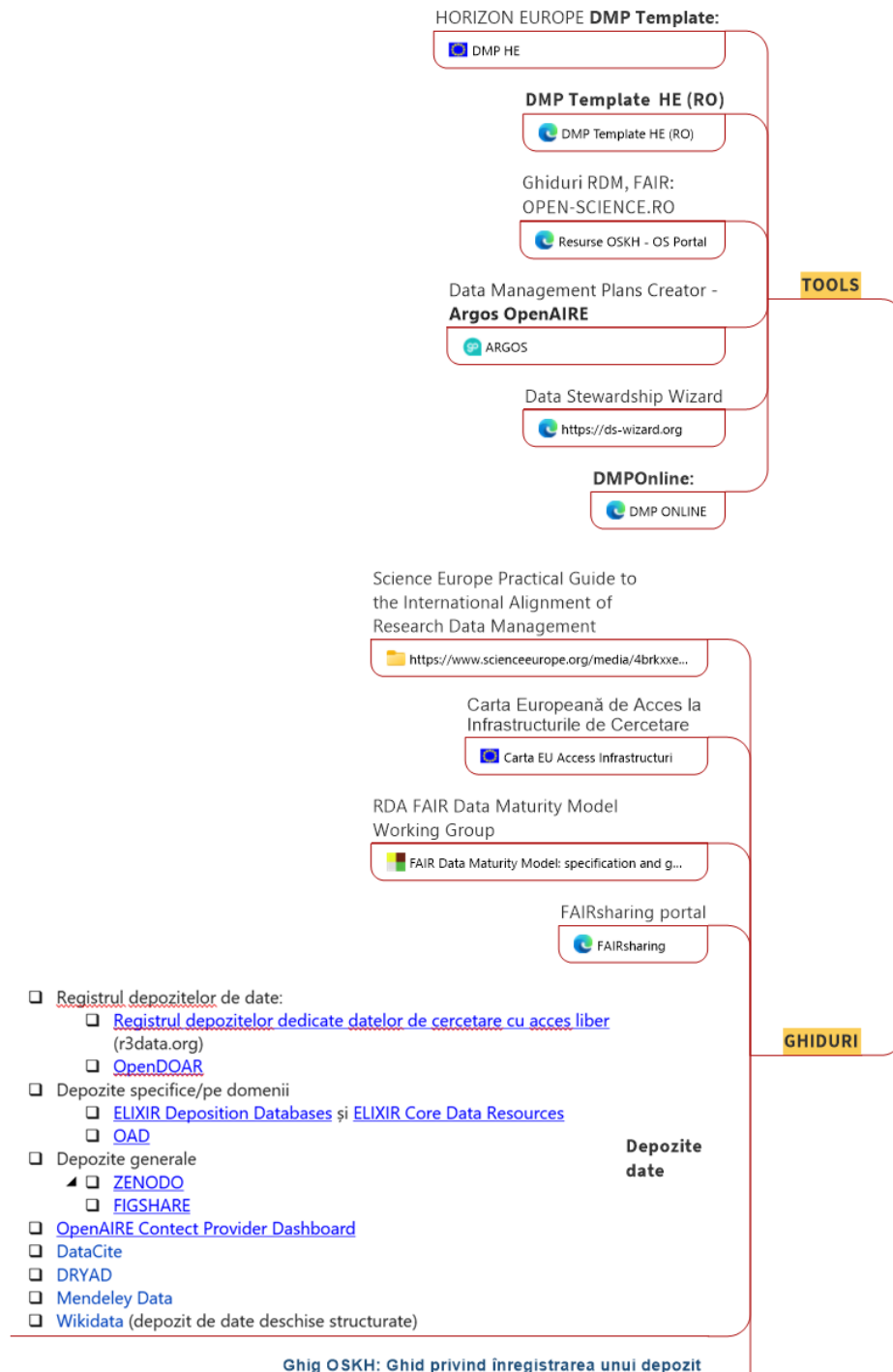
logistice

arhivare

achizionare tools

(1) Descriere scurta (1pag)
(2) DMP versiune 1 până în luna 6,
(3) DMP actualizat la mijlocul proiectului (pentru proiecte cu o durată mai mare de douăsprezece luni) și (4) la sfârșitul proiectului (dacă este relevant).

Trainings – capacity consolidation/ building



- Template si ghid DMPs

Future steps

Rethinking Research Assessment Conference



November 14, 2024



Bucharest, Romania

uefiscdi

Open University of Science
OpUS

SCIENCE
EUROPE
Shaping the future of research

CoARA

Logo of the Ministry of National Education and Research

Rethinking Research Assessment Conference

14 Nov 2024

<https://uefiscdi.gov.ro/rethinking-research-assessment-conference>

Future steps

- FAIR DMPs guides (beginning of 2025)
- DMP template & guides – consultation with researchers (march 2025)
- Training session with researchers (spring 2025)
- Hands-on workshop with staff
- Awareness raising session

[HE Data Management Plan Template](#)

[Science Europe Practical Guide to the International Alignment of Research Data Management](#)

DMP feedback/ co-creation?

Piloting a new researcher profile – Openess Profile

graspos
open research assessment dataspaces

INSIDE STORIES FROM THE PILOT STUDIES

Rethinking Research Assessment - a comprehensive Researcher profile for a broader and more personalised representation of researchers' contributions to science



UE fisca

Executive Agency for Higher
Education, Research, Development
and Innovation Funding

<https://graspos.eu/rethinking-research-assessment-a-comprehensive-researcher-profile>

VELES Excellence Hub

Strengthening the South-East Europe Smart Health Regional Excellence and Boosting the Innovation Potential

On a Mission to Transform the Smart Health Landscape in South-East Europe

We're pioneering the European Health Data Space by building the first Regional Smart Health Data Space.

FIND OUT MORE

<https://veleshub.eu>



Defining recommendation for Curricula & training

Education and Employment Program (PEO) Increasing the relevance of education and training systems for the labor market, in the context of the use and development of digital and entrepreneurial skills and the promotion of a stimulating environment for lifelong learning.

PROJECT : Adapting the educational offer to labor market demands through evidence-based policy making.

Research on the development of emerging skills, competencies, and professional profiles necessary for open science (A4.4, 18 months).

1) Analysis of policies and practices (both nationally and internationally) regarding the development of skills and competencies necessary for open science: **managing FAIR scientific information**, open access to research results, the use of specific standards and protocols, management of open educational resources, etc.;

2) Analysis of the current state of skills and existing educational and training offerings at the national level relevant for training specialists—such as IT experts in data-intensive computing, technicians, engineers, and data administrators (data stewards, data curators, etc.);

3) Co-creation of recommendations for a competency framework needed for open science: building the skills & capacities for students, researchers, academic and research institution staff, and other relevant actors in the private and public sectors, as well as civil society, to implement open science
[alignment with international provisions and SNCISI 01.2, "The White Paper on the Transition to Open Science"].



**Currently – over 1000
members**



 stay up to date  get involved  attend events

@Andreea Popa, UEFISCDI, OS Community presentation, October 13, online

Join Open-Science Community in BrainMap



The online community of researchers, innovators, technicians and entrepreneurs

62.526 accounts



We connect your expertise to Romania,
for your voice to matter

brokermap

Romanian language

Explore by Skills



Research Outputs Registry



Requires authentication, Romanian language

Explore by Map





Mrs. Alina IRIMIA

PhD



UEFISCDI ID (UEF-ID):

U-2300-070A-3192

Romania

SKILL TAG

SKILL MAP

RESEARCH OUTPUTS

Brainmap Communities

Open-Science Community

Join Diaspora Community



Community updates

Latest Open-Science events

[Rethinking Research Assessment Conference](#)

[Romania National Roadshow](#)

[Adunarea Generală RO-NOSCI](#)

Latest Open-Science topics

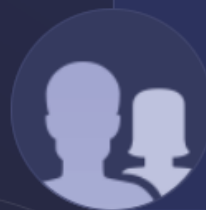
[Citizen Science](#)

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

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

Account Information

Customize your account information by adding yo





This section provides a selection of the most relevant news or reference documents related to Open Science, thus facilitating the access to information and knowledge on the subject.



Pilot Romania - GraspOS

GraspOS prezintă constant informații despre ce reprezintă activitățile pilot desfășurate în cadrul proiectului și despre modul în care acestea urmăresc să aducă împreună știința deschisă și evaluarea cercetării.

Poveștile din interior oferă o perspectivă asupra studiilor pilot



e-Infrastructurile europene anunță o colaborare în vederea consolidării sprijinului pentru cercetare

Principalele organizații europene de e-infrastructură, inclusiv EGI, EUDAT, GÉANT, OpenAIRE și PRACE, au semnat în data de 3 octombrie 2024 - un memorandum de înțelegere (MoU) în cadrul conferinței EGI 2024, înființând Adunarea europeană a e-infrastructurilor. Această colaborare urmărește să consolideze



Eveniment de lansare tehnică a nodului UE EOOSC

Direcția Generală Cercetare și Inovare (DG RTD) și Direcția Generală Rețele de comunicații, conținut și tehnologie (DG CNECT) ale Comisiei Europene organizează un eveniment de lansare tehnică a nodului EOOSC EU, online, în data de 10 octombrie 2024, între orele 9.30 - 13.15 CEST.

Evenimentul de lansare online se va axa pe o demonstrație tehnică a nodului EOOSC EU.

Informații suplimentare pot fi accesate [aici](#).

[Read more](#)

PATTERN Pilot training for OPEN ACCESS

Program pilot de formare pentru Open Access

Proiectul [PATTERN](#) va organiza în perioada 28-30 Octombrie 2024, un program de formare (online) privind cercetarea și inovarea deschisă și responsabilă (RRI).

Participanții la acest program vor învăța despre:

- Publicarea cu acces liber: modalități de depășire a provocărilor.
- Cum se pot păstra drepturile de autor și cum se poate maximiza impactul în cadrul publicării cu acces liber.

· Publicarea cu acces liber pentru a răspunde așteptărilor

[Read more](#)



Join the PATTERN Pilot Training Program for FAIR RDM

11-15 November 2024

Program pilot de formare pentru gestionarea FAIR a datelor de cercetare (RDM)

Proiectul PATTERN va organiza în perioada 11-15 Noiembrie 2024, programul de formare cu privire la gestionarea FAIR a datelor de cercetare (RDM).

Participanții la acest program vor învăța despre:

- Principiile fundamentale ale FAIR RDM și de ce sunt esențiale pentru o cercetare cu impact.
- Cum să dezvolți planuri solide de gestionare a datelor (DMP) pentru planificarea practicilor FAIR.

[Read more](#)



Science Europe "Developing and Aligning Policies on Research Software"

Science Europe a publicat recent documentul "Developing and Aligning Policies on Research Software: Recommendations for Research Funding and Research Performing Organisations".

Obiectivul acestor recomandări este de a contribui la un cadru politic mai solid pentru software-ul de cercetare.

Raportul integral poate fi accesat [aici](#).

[Read more](#)



Open Access

Citizen Science

FAIR Data

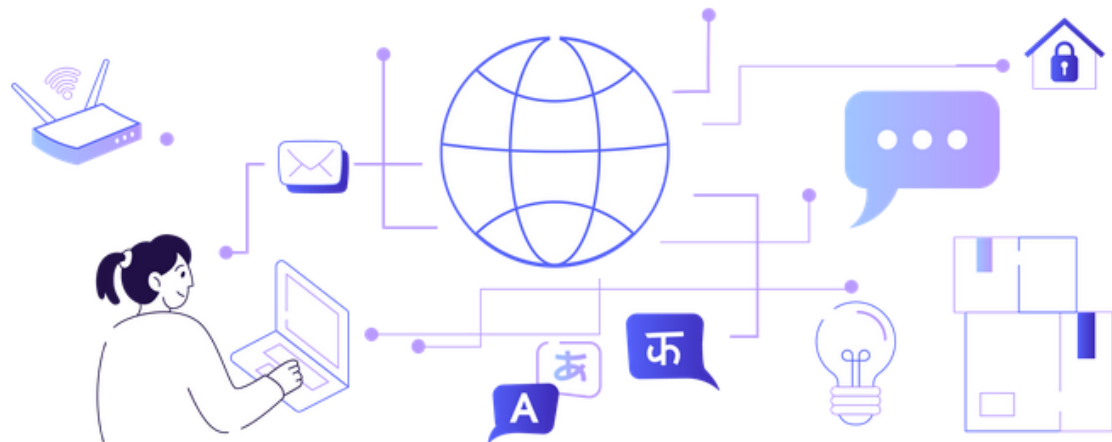
brainmap

Brainmap Communities

Open-Science Community

[*click to see current members](#)

[News](#) [Workspace](#) [Events](#)



OS & Research Assessment

Rights Retention

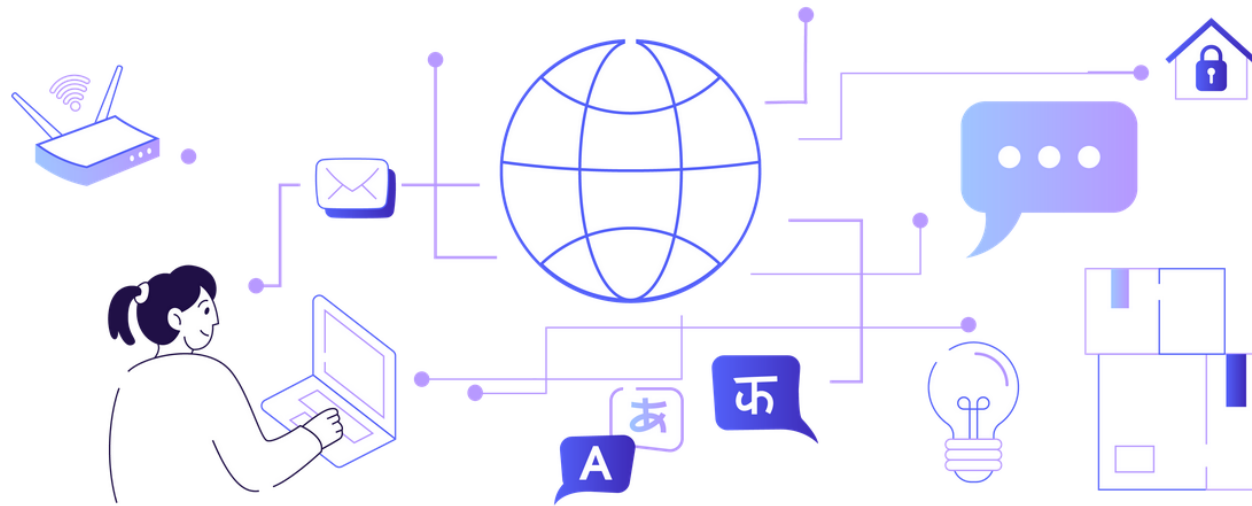
.....

Open-Science Community

[*click to see current members](#)

[News](#) [Workspace](#) [Events](#)

[Admin news](#) [Admin workspace](#) [Admin events](#)



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.

Data Management Plan (DMP)

This has 6 resources

[See resources and discussion](#)

Open Access (OA)

This has 8 resources

[See resources and discussion](#)

Research data management (RDM)

This has 2 resources

[See resources and discussion](#)

Citizen Science

This has 9 resources

[See resources and discussion](#)

Research Assessment

Octombrie 2024						
Luni	Marți	Miercuri	Joi	Vineri	Sâmbătă	Duminică
	01	02	03	04	05	06
07	08 Romania National Roadshow	09	10	11	12	13
14	15	16	17	18	19	20
21	22	23 2024 International Conference Advanced Scientific Computing - ICASC	24 2024 International Conference Advanced Scientific Computing - ICASC	25 2024 International Conference Advanced Scientific Computing - ICASC	26	27
28	29	30	31			

This section provides a selection of the most relevant events related to Open Science.

Upcoming events

UEFISCDI Conference 2024 Rethinking Research Assessment – 14 November 2024

The Executive Agency for Higher Education, Research, Development and Innovation Funding ([UEFISCDI](#)), together with the Open and Universal Science project ([OPUS](#)), [Science Europe](#), Coalition for Advancing Research Assessment ([CoARA](#)) and the [UNESCO Chair on Science and Innovation Policies](#) – SNSPA, organizes the international Conference 'Rethinking Research Assessment', which will take place in **Bucharest, Romania, on November 14, 2024.**

The event aims to address the pressing need for innovation in research assessment, and to approach the latter topic from a three-dimensional perspective - policies for research assessment, researchers on research assessment and last but not least, organizations' perspectives on research assessment.

Events

Relevant events national & international

National portal for OS transition support

The screenshot shows the homepage of the National Portal for OS Transition Support. At the top, there is a logo for 'UEFISCDI network' and a search bar. Below the search bar, there is a navigation menu with links for 'ABOUT HUB', 'RESOURCES', 'DIGITAL STORES', 'PROJECTS', 'RO-NOSCI', and 'NEWS AND EVENTS'. The main content area features a large heading: 'Support in the transition to open science at the national level'. Below this heading, there is a paragraph: 'Connecting the national and international community to facilitate openness, collaboration and correlation with transformative best practices towards open science.' At the bottom of this section, there is a 'More' button with a downward arrow. To the right of the text, there is an illustration of three people interacting with a computer screen and a document.

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

The screenshot shows the homepage of the Open Science Knowledge Hub. At the top, there is a logo for 'OPEN SCIENCE KNOWLEDGE HUB' and a search bar. Below the search bar, there is a navigation menu with links for 'DESPRE HUB', 'RESURSE', 'DEPOZITE DIGITALE', 'PROIECTE', 'RO-NOSCI', and 'STIRI SI EVENIMENTE'. The main content area features a large heading: 'Biblioteca Open Science'. Below this heading, there is a paragraph: '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'. At the bottom of this section, there is a 'Mai multe' button with a downward arrow. To the right of the text, there is an illustration of three people interacting with a computer screen and a document.

Categorii documente

- [Știința deschisă în Orizont Europa](#)
- [Rapoarte Comisia Europeană](#)
- [Inițiative 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](#)

RECOMMENDATIONS DEVELOPING AND ALIGNING POLICIES ON RESEARCH SOFTWARE 2024

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

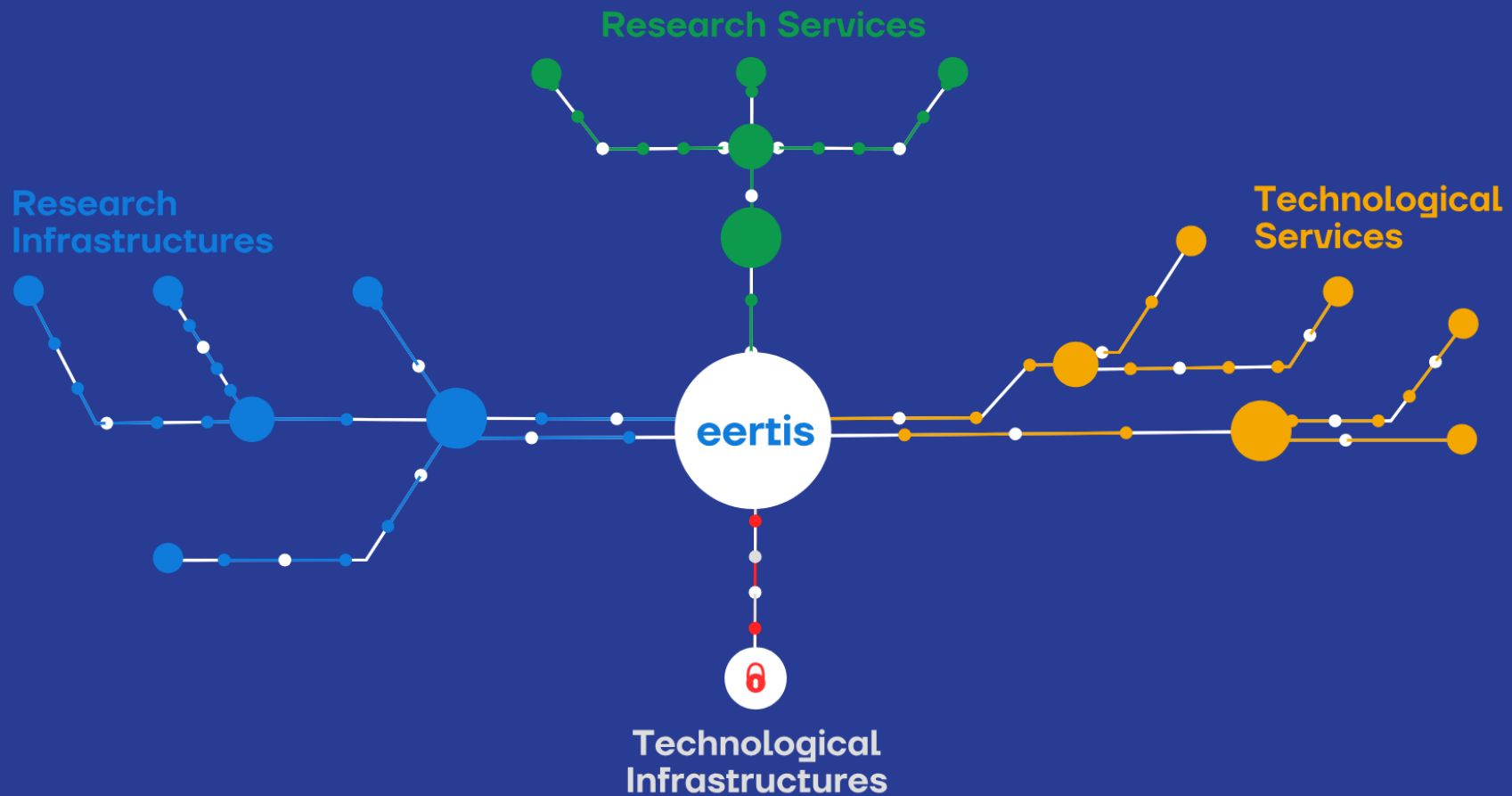
NATIONAL STRATEGY FOR OPEN SCIENCE

Ouvrir la science! What direct support is available for

Implementing the rights retention strategy for scientific publications GUIDE FOR RESEARCHERS



Engage in the European Research and Technology Infrastructures System





A WORLD OF POSSIBILITIES

Explore eertis

Explore what the Research and Technology Infrastructures have to offer. Their resources are one click away.

<https://eertis.eu/>

<https://eertis.eu>

Statistics



Research Infrastructures

2.909



Research Services

7.291



Technology Services

481



Equipment

27.391

International collaboration Relevant WGs & initiatives

FAIR & EOSC related

Part of the [FAIR-IMPACT](#) project (support for FAIR Implementation)

Observer in the EOSC Association

Co-coordinator of the Romanian Open Science Cloud Initiative ([RO-NOSCI](#)) ([NI4OS](#) – Europe project)

Collaboration with [Research Data Alliance \(RDA\)](#) – support for open research data & EOSC (OSKH is [RDA node](#))

Support for infrastructure & services for open science [OpenAIRE](#)
[NOAD Romania](#)



International collaboration Relevant WGs & initiatives



OS & Research Assessment

UEFISCDI

51 early signatories of [CoARA](#)

WG: Improving practices in the assessment of research proposals (European Commission)

WG: Towards Open Infrastructures for Responsible Research Assessment (OpenAIRE)

[DORA](#) signatory

[Science Europe](#) (WG on OS, WG Research Culture, TF on Recognition Systems, TF on Open Research Software; TF on EOSC)

[OPUS](#) (Open Universal Science) project

[GraspOS](#) project: next Generation Research Assessment to Promote Open Science



[IAU WG on OS](#)



Questions/ Discussion

Thank you!

 Alina.Irimia@uefiscdi.ro

 www.linkedin.com/in/alina-irimia

