



**FAIR-IMPACT**

Expanding FAIR solutions across EOSC

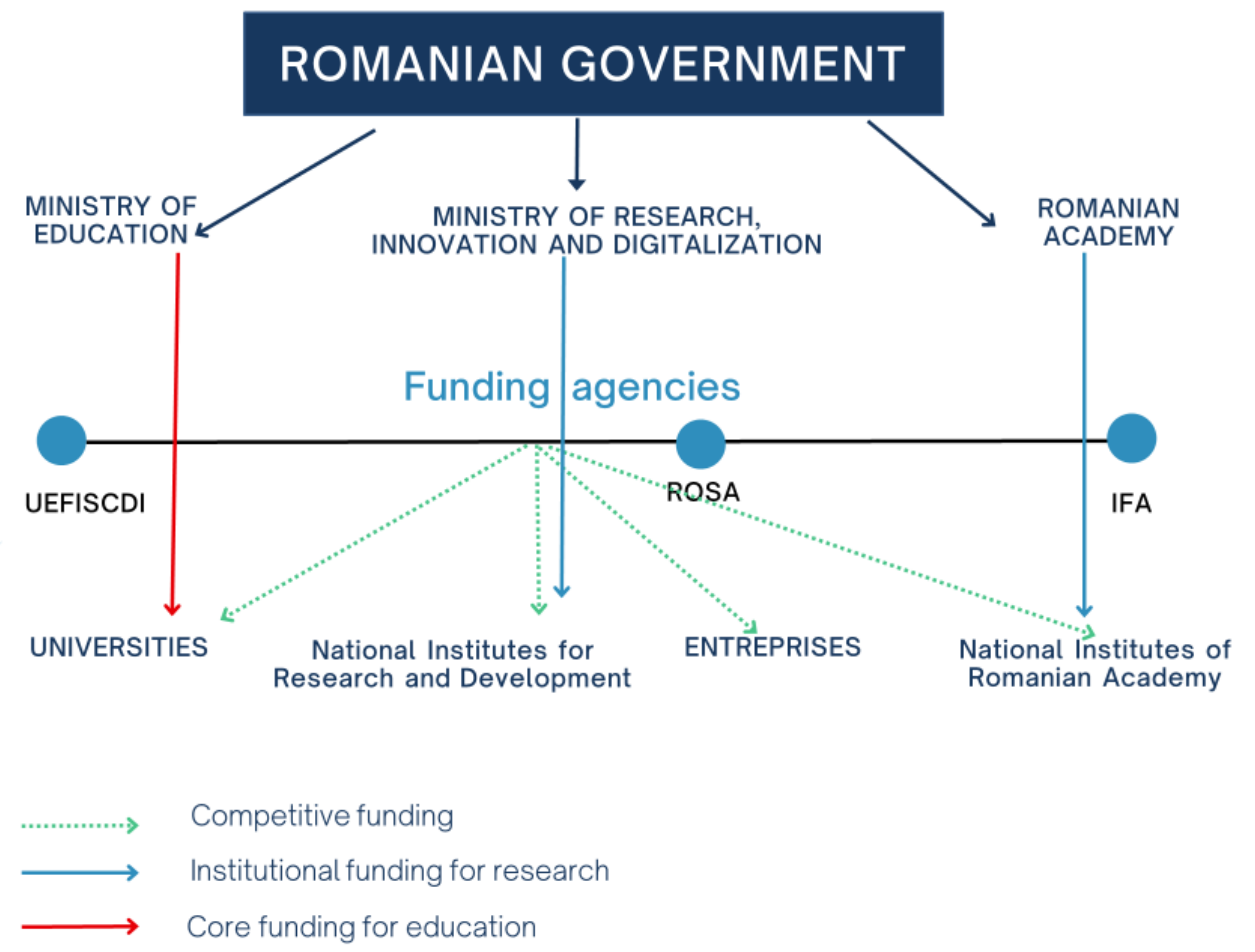
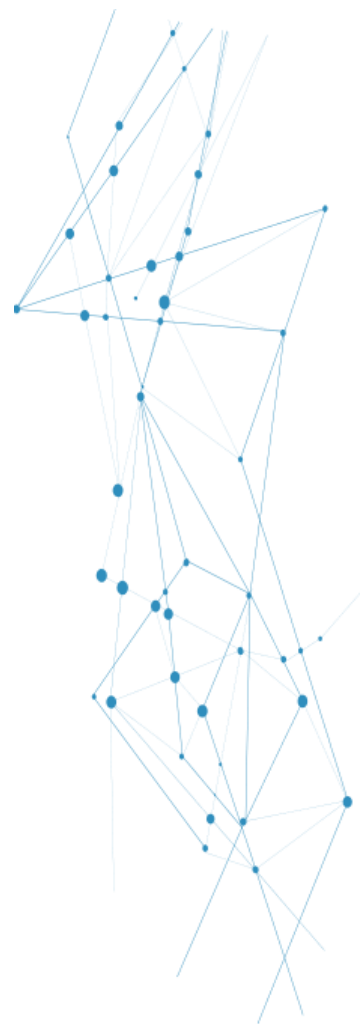
FAIR Implementation  
Workshop : FAIR national plan  
in Germany and national  
initiatives to support FAIR in  
Romania

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1.02.2024

# The Romanian research framework



research organisations

# UEFISCDI – Open Science Knowledge Hub (OSKH)

## Funder & Policy advisor

Part of:

- [CoNOSC](#) (Council for National Open Science Coordination)
- Science Europe
- [CoARA](#) (Coalition for Reforming Research Assessment) 51 early signatories
- Supporter of the [Action Plan for Diamond Open Access](#)
- DORA signatory
- EOSC Association
- Partner in EU OS projects



OPEN SCIENCE  
KNOWLEDGE HUB



# Romania's National OS Strategic Framework 2022-2027

Adoption of the [National Strategy on Research, Innovation and Smart Specialization 2022-2027](#) (Governmental Decision no. 933 of 20 July 2022)

[Green Paper for the transition to Open Science 2022-2030](#)

Adoption of the [National Plan for Research, Development and Innovation 2022-2027](#) (Governmental Decision no. 1188 of 29 September 2022)

- RDI funding programs & types of projects proposed to be financed (Open Science)
- Open Science - a principle of the National Plan

## [White Paper on the Transition to Open Science \(2023-2030\)](#)

Context:

**ESIF project:** [Increasing the capacity of the RDI system to respond to global challenges. Strengthening the anticipatory capacity to develop evidence based policies – SIPOCA592](#)

Implemented by: Executive Agency for Higher Education, Research, Development and Innovation Funding (**UEFISCDI**)

Beneficiary: Ministry of Research, Innovation and Digitalization



# National Strategy for RDI & RIS3

## 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 evaluation system
- Promotes citizen science

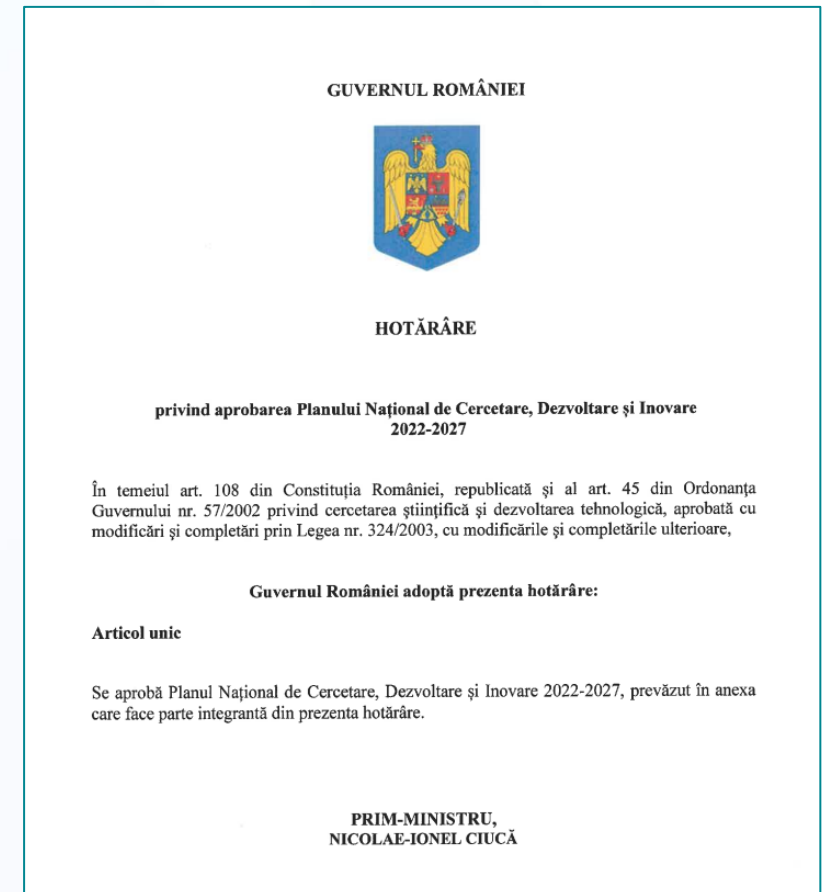


# The National Plan for RDI 2022-2027

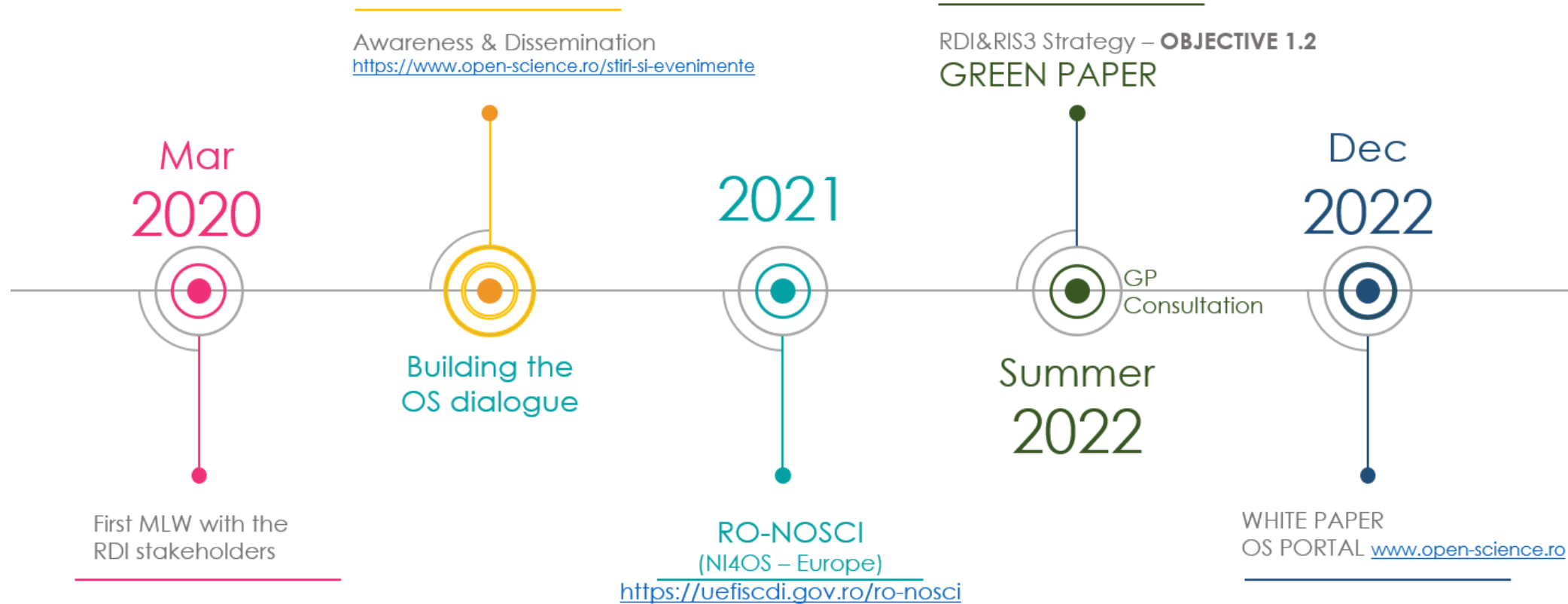
Main instrument for implementing the National RDI& RIS3 Strategy 2022-2027.

## Types of support/ projects proposed to be financed

- Awarding the Romanian journals for publishing in the open science model (Diamond OA);
- Support for OS practices (OA and FAIR data);
- Developing the institutional capacity to implement open science practices so as to ensure alignment with the European Union's recommendations and policies on open science;
- Grants for the development of skills needed to implement open science;
- Open access publication – eligible costs in all projects funded;
- Supporting the participation of Romania and the relevant infrastructure & services in/ for the development of EOSC;
- Innovative research methods involving citizen science.



# OS Strategy development PROCESS



Source: [White Paper on the Transition to Open Science 2023-2030](#)



# Results of the consultation on the Green Paper on the Transition to

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			



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-carnea-verde-a-tranzitiei-catre-stiinta-deschisa-2022-2030>



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

## 8 Strategic Objectives

1. Ensuring OA to scientific publications resulting from publicly funded research
2. Research data management and ensuring open access to research data
3. Ensuring transparency and fairness of OA publishing costs and those of access to international publications
4. Developing the infrastructure and services for open science
5. Establish a long-term governance for the transition to OS and EOSC
6. Developing the skills needed to implement open science
7. Adapting the process of research assessment and rewarding in the new context of open science
8. Citizen science



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

## Strategic objective 2. Research data management and ensuring open access to research data

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.

### ➔ Proposed actions:

- 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 repository<sup>34</sup> 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).

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

## Strategic objective 2. Research data management and ensuring open access to research data

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.

- 2.3.** 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 mechanisms<sup>35</sup>.
- 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 software<sup>36</sup>, models, algorithms, workflows, protocols, simulations, electronic lab notes, in compliance with FAIR principles and open access (as far as possible).

# UEFISCDI – Open Science Knowledge Hub (OSKH)

## EU relevant projects:

- [OpenAIRE Romania NOAD](#)
- Research Data Alliance (RDA) – ([RDA node](#))
- [FAIR-IMPACT](#)
- National Initiatives for Open Science ([NI4OS - Europe](#)) and Co-coordinator of the RO Initiative of Open Science Cloud ([RO-NOSCI](#))
- [OPUS](#) - Open Universal Science project
- [SECURE](#) - The Sustainable Careers for Researcher Empowerment project
- [GraspOS](#): next Generation Research Assessment to Promote Open Science



# National Open Science Cloud Initiative – RO-NOSCI

- RO-NOSCI was officially established (on 1<sup>st</sup> July, 2021) as part of NI4OS Europe project
- 3 coordinators: **UEFISCDI** (Member in EOSC Association, starting this year Observer),  
**ICI Bucharest** (Mandated organisation in EOSC Association),  
IFIN- HH
- Ecosystem dedicated to OS&EOSC
- Coalition of organizations at the national level without legal personality – MoU
- Membership does not imply any financial commitment



# National Open Science Cloud Initiative – RO-NOSCI

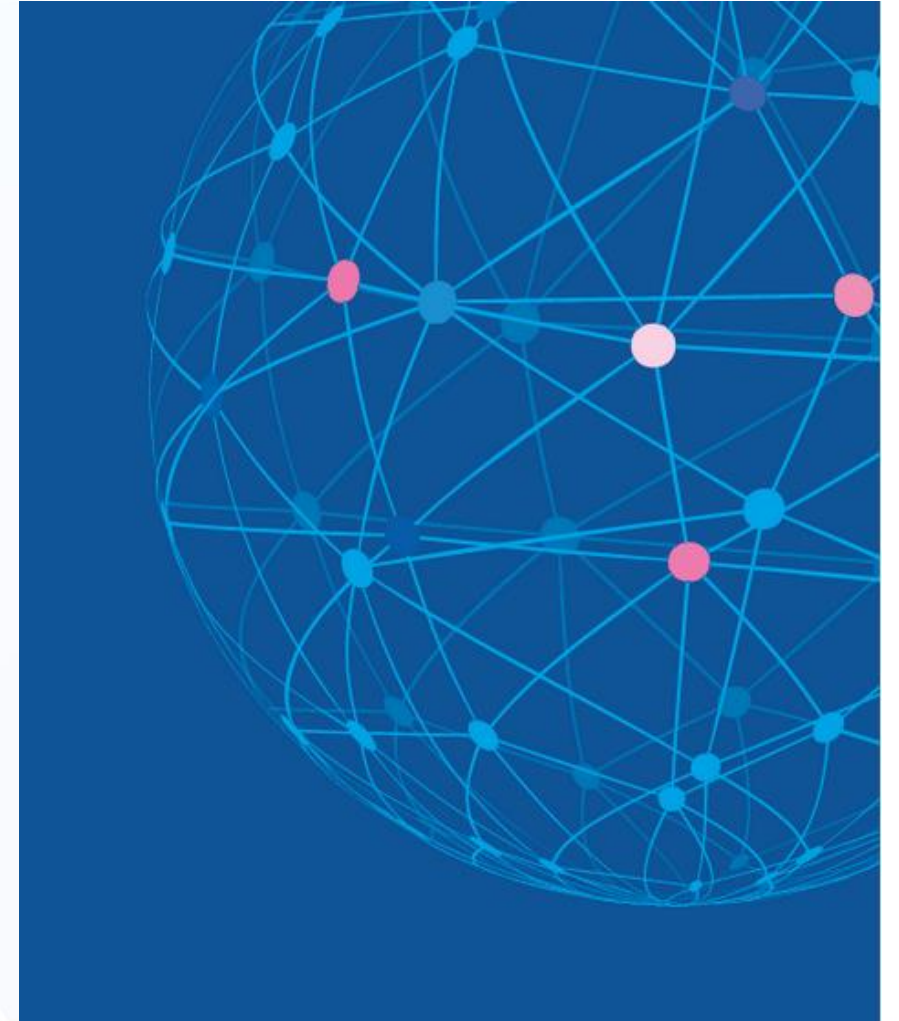
- The process of joining RO-NOSCI is open
- The adhesion form is accessible at:  
<https://uefiscdi.gov.ro/form-NOSCI>
- RO-NOSCI official webpage  
<https://www.open-science.ro/ro-nosci>  
<https://uefiscdi.gov.ro/ro-nosci>
- RO-NOSCI has currently 27 members (25 members and 2 observers)
- **RO Members of the EOSC Association are part of RO-NOSCI**

Nr. crt.	Organizația
1	Unitatea Executivă pentru Finanțarea Învățământului Superior a Cercetării Dezvoltării și Inovării - UEFISCDI
2	Institutul Național de Cercetare-Dezvoltare în Infomatică - ICI București
3	Institutul pentru Fizică și Inginerie Nucleară "Horia Hulubei"- IFIN-HH
4	Universitatea Ovidius din Constanța
5	Universitatea de Medicină și Farmacie "Iuliu Hațieganu" din Cluj Napoca
6	Universitatea Tehnică din Cluj - Napoca
7	Universitatea din București
8	Universitatea Transilvania din Brașov
9	Universitatea Politehnica București
10	Universitatea Dunărea de Jos din Galați
11	Universitatea Babeș-Bolyai Cluj-Napoca
12	Autoritatea pentru Digitalizarea României
13	Universitatea din Craiova
14	Institutul Național de Cercetare-Dezvoltare pentru Fizica Pământului
15	Institutul de Științe Spațiale – Filiala INFLPR
16	Universitatea Alexandru Ioan Cuza din Iași
17	Spitalul Clinic de Urgență Cluj Napoca
18	Institutul Național de Cercetare-Dezvoltare pentru Ecologie Industrială ECOIND
19	Institutul Național de Cercetare-Dezvoltare Chimico-Farmaceutice ICCF București
20	Universitatea Tehnică din Iași
21	Institutul Național de Cercetare-Dezvoltare GEOECOMAR
22	Institutul Național de Cercetare-Dezvoltare pentru Optoelectronică
23	Universitatea Maritimă Constanța
24	Universitatea de Vest Timișoara
25	Universitatea Politehnica Timișoara
26	Institutului Național de Cercetare Dezvoltare pentru Tehnologii Izotopice și Moleculare INCDTIM Cluj-Napoca
27	Universitatea de Medicină și Farmacie "Carol Davila" București

# National Open Science Cloud Initiative – RO-NOSCI

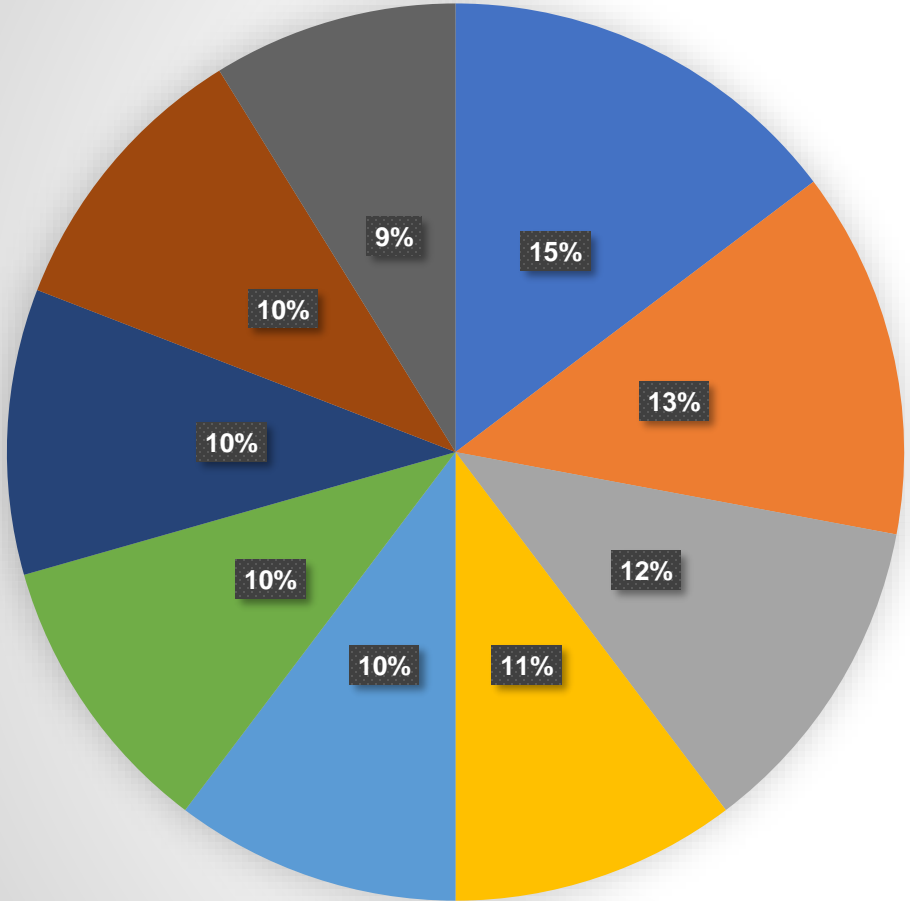
## Objectives:

- Establish and manage a national infrastructure of Open Science Cloud-specific resources and services compatible with EOSC;
- Integration of national infrastructures and services into EOSC;
- Define and implement Open Science and Open Science Cloud policies and develop Open Science specific capabilities.



# National Open Science Cloud Initiative – RO-NOSCI

Open Science Topics of interest for RO-NOSCI members



- DMP, FAIR data, implementation of FAIR principles and open access to research data
- EOSC
- Open licence
- Open access to scientific publications
- Reforming research assessment in line with international recommendations
- Use of EOSC resources
- Development of EOSC resources and their integration into EOSC
- Horizon Europe programme requirements for implementing Open Science practices
- Sitizen science



# Tools to facilitate open collaboration – OS Community



## Join Open-Science Community in BrainMap



 stay up to date  get involved  attend events

Open-Science Community  
3 active sections:

Section 1: **News**  
constant updates on the  
OS ecosystem

Section 2 - **Workspace**  
information & ideas  
sharing on key topics

Section 3 – **Events**  
Relevant events  
national & international

# Tools to facilitate open collaboration - Open Science Portal

FAIRsharing: standarde, baze de date, depozite digitale și politici

FAIRsharing: standarde, baze de date,  
depozite digitale și politici  
- Recomandări finale -  
Joint RDA-Force11 FAIRsharing Working Group

Date de cercetare identificabile, accesibile, interoperabile și reutilizabile (FAIR)



Date de cercetare identificabile, accesibile, interoperabile și reutilizabile (FAIR)

Identificarea cadrului general și dezvoltarea direcțiilor strategice privind puntea deschisă în România



Cautare in Open Science Knowledge Hub



DESPRE HUB RESURSE DEPOZITE DIGITALE PROIECTE RO-NOSCI STIRI SI EVENIMENTE

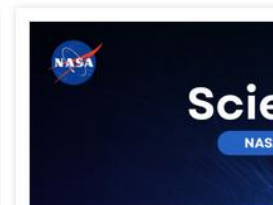
Document de sinteză,  
"Celebrarea unui deceniu de date: The RDA's 10th Anniversary Highlights"

RDA elaborat documentul de sinteză, "Celebrarea unui deceniu de date: The RDA's 10th Anniversary Highlights"

Mai multe →



## Arhiva de stiri





# Piloting DMPs in funding instruments Through the National Plan for RDI

## CoEs (expected to be launched in Spring)

- The formation of Centers of Excellence as **first-class research communities**, within research organizations with outstanding results obtained in the proposed research fields, which are already or on the verge of reaching an international level of development.
- CoEs will be established as **research units**, without **legal personality**, on the basis of a **partnership** between research teams from a minimum of 4 RPOs with a common R&I agenda and plan.



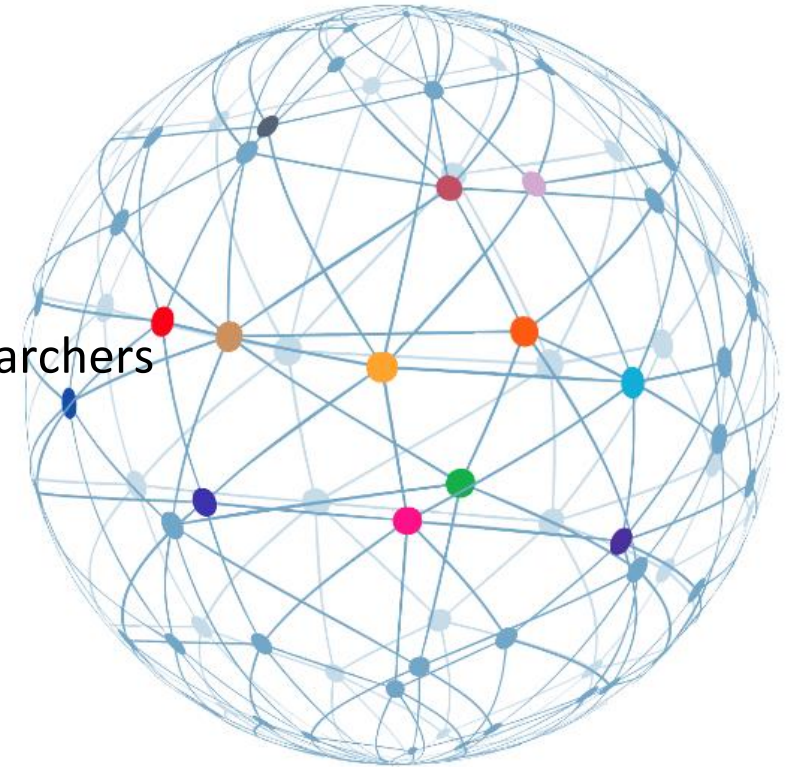
## Project proposals requirements OS practices & RDM – part of Excellence criteria

- Describe how open science practices (e.g. Open Access to publications<sup>6</sup>, research data management, citizen science, and other<sup>7</sup> 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)<sup>8</sup> 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.

# National Open Science Cloud Initiative – RO-NOSCI

## What's next:

- OS Portal development – future developments envisaged
- Promoting EOSC support and benefits through RO-NOSCI
- Further development of OS Community (linked to developing researchers profiles highlighting OS experience/ contributions)
- Implementation of RO-NOSCI's activities
- Support for raising awareness and capacity building for OS



# Thank you!



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