Research assessment in the transition to OS national and funder perspective

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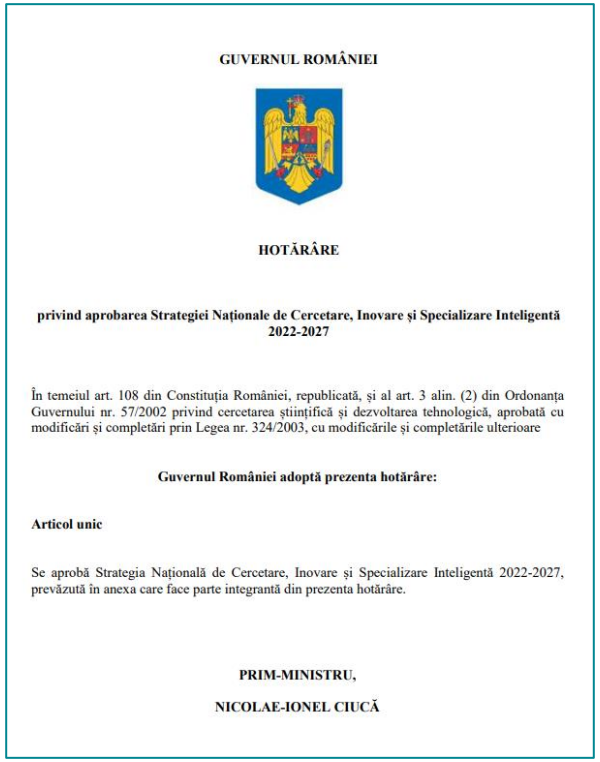
Executive Agency for Higher Education, Research, Development and Innovation Funding

CC BY

- National strategic framework on Open Science
- First step in implementation – Research funding

National strategic framework for Open Science

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



GUVERNUL ROMÂNIEI

HOTĂRÂRE

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

În temeiul art. 108 din Constituția României, republicată, și al art. 3 alin. (2) din Ordonanța Guvernului 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:

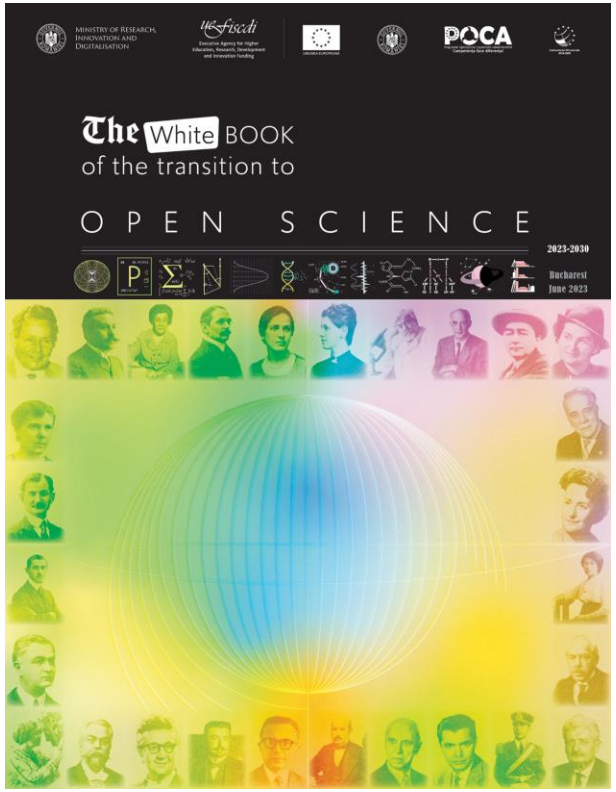
Articol unic

Se aprobă Strategia Națională de Cercetare, Inovare și Specializare Inteligentă 2022-2027, prevăzută în anexa care face parte integrantă din prezenta hotărâre.

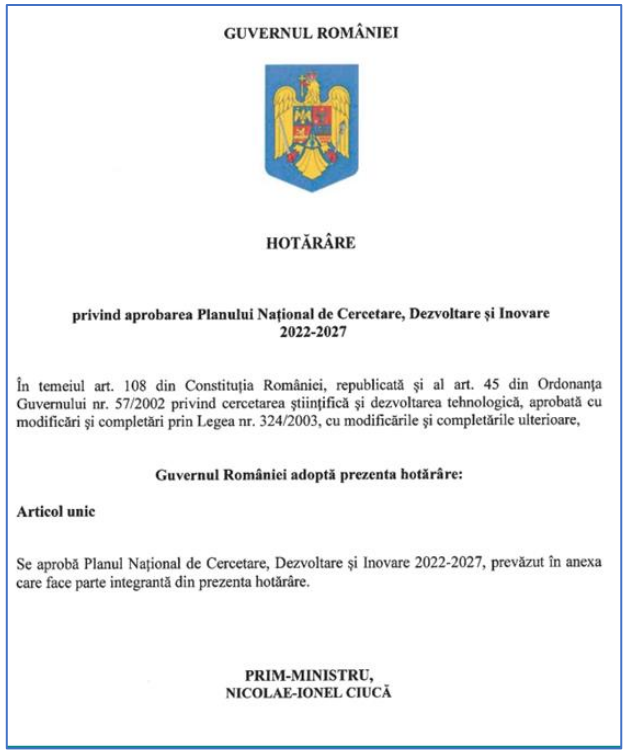
PRIM-MINISTRU,

NICOLAE-IONEL CIUCĂ

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)



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 Guvernului nr. 57/2002 privind cercetarea științifică și dezvoltarea tehnologică, aprobată cu modificări și completări prin Legea nr. 324/2003, cu modificările și completările ulterioare,

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PRIM-MINISTRU,
NICOLAE-IONEL CIUCĂ

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

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PRIM-MINISTRU,

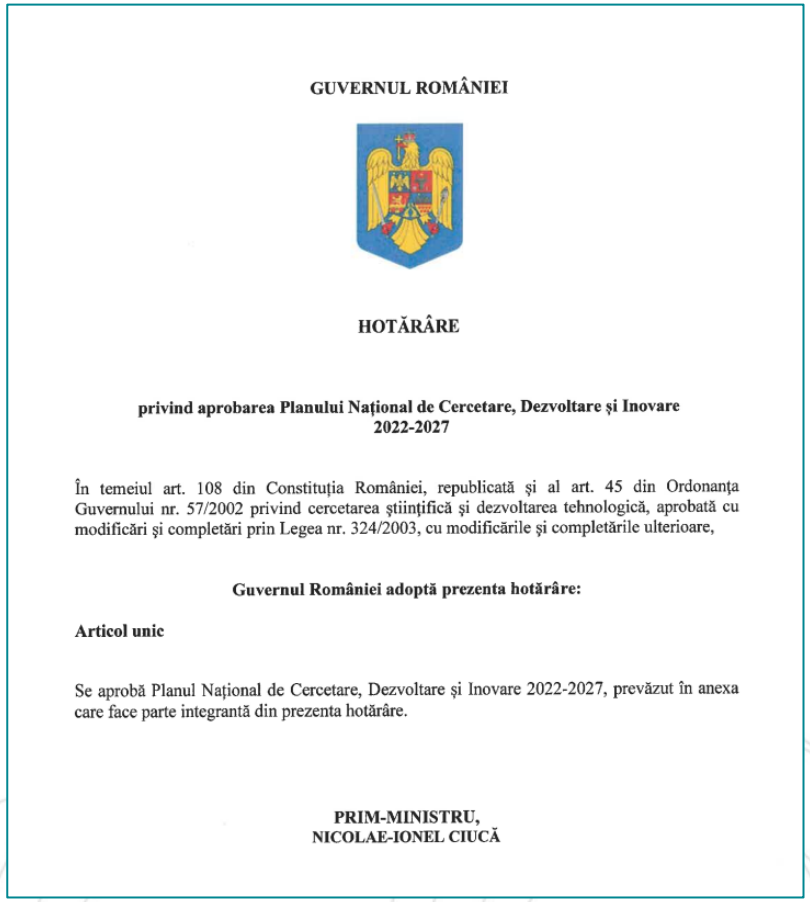
NICOLAE-IONEL CIUCĂ

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

- 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 – 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**;
- Awarding the Romanian journals for publishing in the open science model (Diamond OA);
- Grants of support for implementation - OS practices (OA and FAIR data);



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PRIM-MINISTRU,
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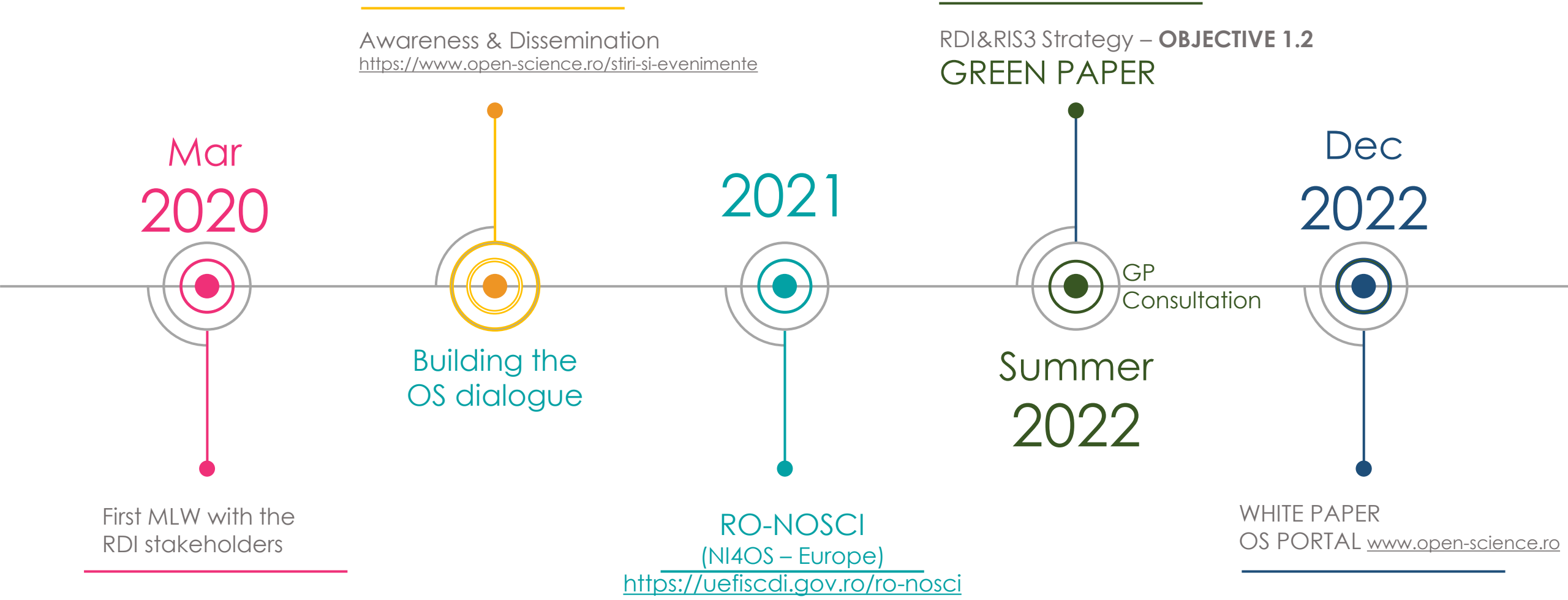
Governmental Decision no.1188/ 29 September 2022

https://www.research.gov.ro/uploads/programe-nationale/pc-cdi-iv/hg-aprobare-pncdi-iv.pdf

OS Strategy development PROCESS



Source: White Paper on the Transition to Open Science 2023-2030

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. **FAIR Research data management** and open research data

3. Ensuring **transparency and equity of APCs** and those of access to international publications

4. Developing the **infrastructure and services** for open science

5. Establishing a long-term **governance** for the transition to OS

6. **Capacity building** to implement open science

7.Adapting the process of **research assessment and rewarding** in the new context of open science

8. **Citizen science**

https://www.open-science.ro/cartea-alba-a-tranzitiei-catre-stiinta-deschisa-2023-2030

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 infra**structure 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

Table Weight of responses per recommendation according to relevance

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".

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.

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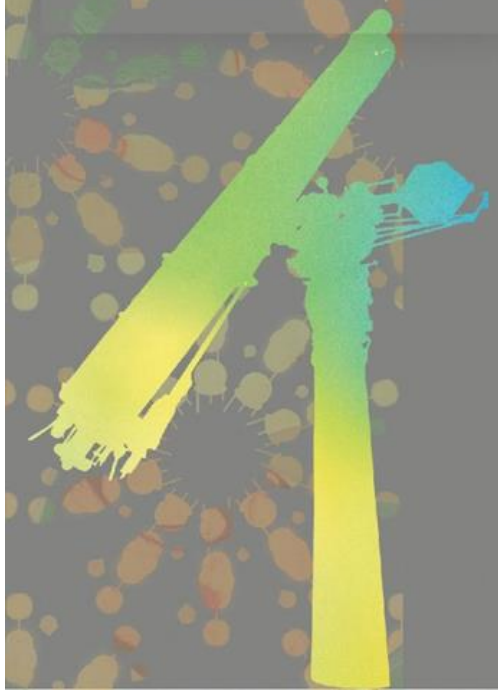
MAPPING the actions

What are the proposed actions about?
to whom are they addressed?
what is the expected participation level?

AN OVERVIEW of anticipation



expected PARTICIPATION level

- getting **actively** involved in the transformation
  Which means the action is expected (from)
- getting **proactively** involved in the transformation
  Which means a push is desirable (from)
- **aligning** with the transformation
  Which means reform constraints (on)

immediate action responsibility of the state 8
safeguarding/ support responsibility of the state 6

targeted ACTORS

- research organisations 28
- state 26
- researchers 21
- publishers & platforms 3
- *community 3
  of the OS national ecosystem

TOPICS of the proposed actions

anticipate

1
- a1.1 OA
- a1.2 hybrid journals
- a1.3 licensing
- a1.4 publications metadata
- a1.5 digital repositories
- a1.6 identifiers
- a1.7 OA as a condition for funding
- a1.8 article processing charges
- a1.9 challenges and opportunities
- a1.10 institutional policies for OA
- a1.11 OA practices of journals
- a1.12 access to scientific literature

2
- a2.1 data management plans
- a2.2 existing stored data
- a2.3 metadata
- a2.4 FAIR research data
- a2.5 research data management
- a2.6 other research products

3
- a3.1 international initiatives
- a3.2 transformative agreements
- a3.3 publishing models

4
- a4.1 OS initiatives
- a4.2 international cooperation
- a4.3 collaborative platforms

5
- a5.1 Open Science Council
- a5.2 National Reference Point
- a5.3 national framework

6
- a6.1 competency framework
- a6.2 upskilling policies
- a6.3 OS educational programmes
- a6.4 advanced educational programmes
- a6.5 OS capacities
- a6.6 digital learning resources & tools

7
- a7.1 research evaluation
- a7.2 new evaluation practices
- a7.3 monitoring and revising evaluation
- a7.4 communicating
- a7.5 supportive actions - dialogue
- a7.6 supportive actions - guidelines

8
- a8.1 citizen participation
- a8.2 citizen involvement in evaluations
- a8.3 innovative methodologies & tools
- a8.4 citizen science-related skills
- a8.5 citizen science in research evaluation
- a8.6 national network for citizen science
- a8.7 citizen science exercises in education

POLICY LEARNING AREA

- governance & policy/ funding design 16
- enforcing legal provisions 3
- strengthening key resources 4
- institutional change and capacities 11
- knowledge consolidation 2
- skills consolidation 3
- research practice/ conduct 4
- work technicalities 3

Governance & policy/ funding design-proposed actions are about ensuring transformative coherence.

Enforcing legal provisions, including EC recommendations, is a question of systemic consistency.

Strengthening key resources is about the consolidation/ provision (by the state but also by others) of key resources for the actors in the system to continue the transformation.

Institutional change and capacities also encompasses community transactions and the resolution of systemic tensions.

Knowledge consolidation is about further substantiating and directing the transformation.

Skills consolidation refers to the skills required for a meaningful transition to open science.

Research practice/ conduct is about steering the way in which research is conducted and concluded.

Work technicalities is about operational accuracy, i.e., actions that provide more detailed reference points for achieving the transformation.

Index of shortened proposed actions

- a1.1 ensuring OA to scientific publications
- a1.2 publishing in hybrid journals - transformative agreements
- a1.3 CC BY licensing
- a1.4 ensuring OA to publications metadata
- a1.5 using trusted OA digital repositories
- a1.6 using unique and persistent identifiers
- a1.7 introducing OA as a condition for public funding of research
- a1.8 maintaining the eligibility of article processing charges
- a1.9 understand challenges and opportunities of OA
- a1.10 developing and aligning institutional policies for OA
- a1.11 supporting OA practices of Romanian journals
- a1.12 continuing to ensure access to scientific literature
- a2.1 introducing mandatory data management plans
- a2.2 ensuring OA to existing stored data
- a2.3 providing OA to metadata (CC0)
- a2.4 "FAIR-ing" research data
- a2.5 funding research data management
- a2.6 expanding open access to other research products
- a3.1 participating in international initiatives for OA publishing
- a3.2 initiating transformative negotiations/ agreements
- a3.3 supporting non-commercial and collaborative publishing models
- a4.1 promoting and supporting OS initiatives
- a4.2 increasing international cooperation in OS
- a4.3 supporting collaborative platforms for science
- a5.1 establishment of the Open Science Council
- a5.2 operationalise the National Reference Point for Romania
- a5.3 designing and implementing a national framework for the transition to OS
- a6.1 creating a competency framework for OS-related emerging professions
- a6.2 developing/ adapting upskilling policies for OS
- a6.3 including OS educational programmes in higher education
- a6.4 designing advanced educational programmes for new professions
- a6.5 building relevant OS capacities of organisations
- a6.6 developing digital learning resources, tools, and solutions for OS
- a7.1 reviewing current research evaluation processes to incentivise OS
- a7.2 co-creating and piloting new evaluation practices to reward OS
- a7.3 monitoring and revising the evaluation processes
- a7.4 communicating on the evaluation processes
- a7.5 supportive actions - dialogue for the review of evaluation processes
- a7.6 supportive actions - guidelines for the review of evaluation processes
- a8.1 supporting projects that encourage citizen participation
- a8.2 piloting forms of citizen involvement in evaluations
- a8.3 developing innovative methodologies and tools for citizen science
- a8.4 developing citizen science-related skills of researchers
- a8.5 including citizen science criteria in research evaluation processes
- a8.6 developing a national network for citizen science
- a8.7 piloting citizen science exercises in ISCED 1-6 education institutions

Objective 7. Adapting the Research Evaluation and Rewarding Process to the New Context of Open Science

For open science to become a reality, it is necessary to change how research is evaluated and rewarded. In this regard, the evaluation system for research (researchers, projects, and research organizations) needs to be revised and updated to reward the implementation of open science practices, such as early sharing of research results, open collaboration, open access to research findings, and involvement of societal actors wherever possible. Moreover, such a process must be accompanied by a transformation of the evaluation system to recognize a broader range of research outcomes and activities.

7.1. Reviewing current research evaluation processes (researchers, projects, and research organizations) to identify the extent to which they take into account and incentivise open science practices and identifying possible measures required for this purpose.

7.2. Developing existing or new evaluation practices, methods, tools, and criteria, in collaboration with research communities (through co-creation exercises and pilot projects), to recognize and reward open science practices, as well as a broader range of research outcomes and activities. This includes updating and complementing the indicators and criteria used in research evaluation processes to include those that stimulate and reward the adoption of open science practices, such as early sharing of research results and data, open collaboration, open access to research results, and engagement with relevant societal stakeholders (where relevant and feasible). It also involves the dissemination of research results to the general public and dedicated indicators that allow for the recognition and reward of a greater diversity of research outcomes and activities.

7.3. Monitoring and periodically reviewing the implemented evaluation processes to draw conclusions about their efficiency and effectiveness.

7.4. Maintaining continuous and transparent communication of information regarding the evaluation process, methodologies, tools, and criteria, and involving all relevant stakeholders in their review. Public research and research funding organizations have the duty to make information about the methods, tools, and criteria used in the evaluation of researchers, projects, and research organizations publicly available and easily accessible.

7.5. Implementing supportive actions, such as creating working groups to facilitate the dialogue and consultation process with members of the scientific communities and other relevant societal stakeholders on topics related to the review and update of research evaluation processes for recognizing and rewarding open science practices, as well as a broader range of research outcomes and activities. This also includes organizing dedicated events for this purpose.

7.6. Implementing supportive actions, such as creating guidelines aimed at research organizations and others, to guide them in the process of reviewing and updating evaluation processes and implementing recognition and reward systems for open science practices.

Centres of Excellence (CoE) funding call

Purpose

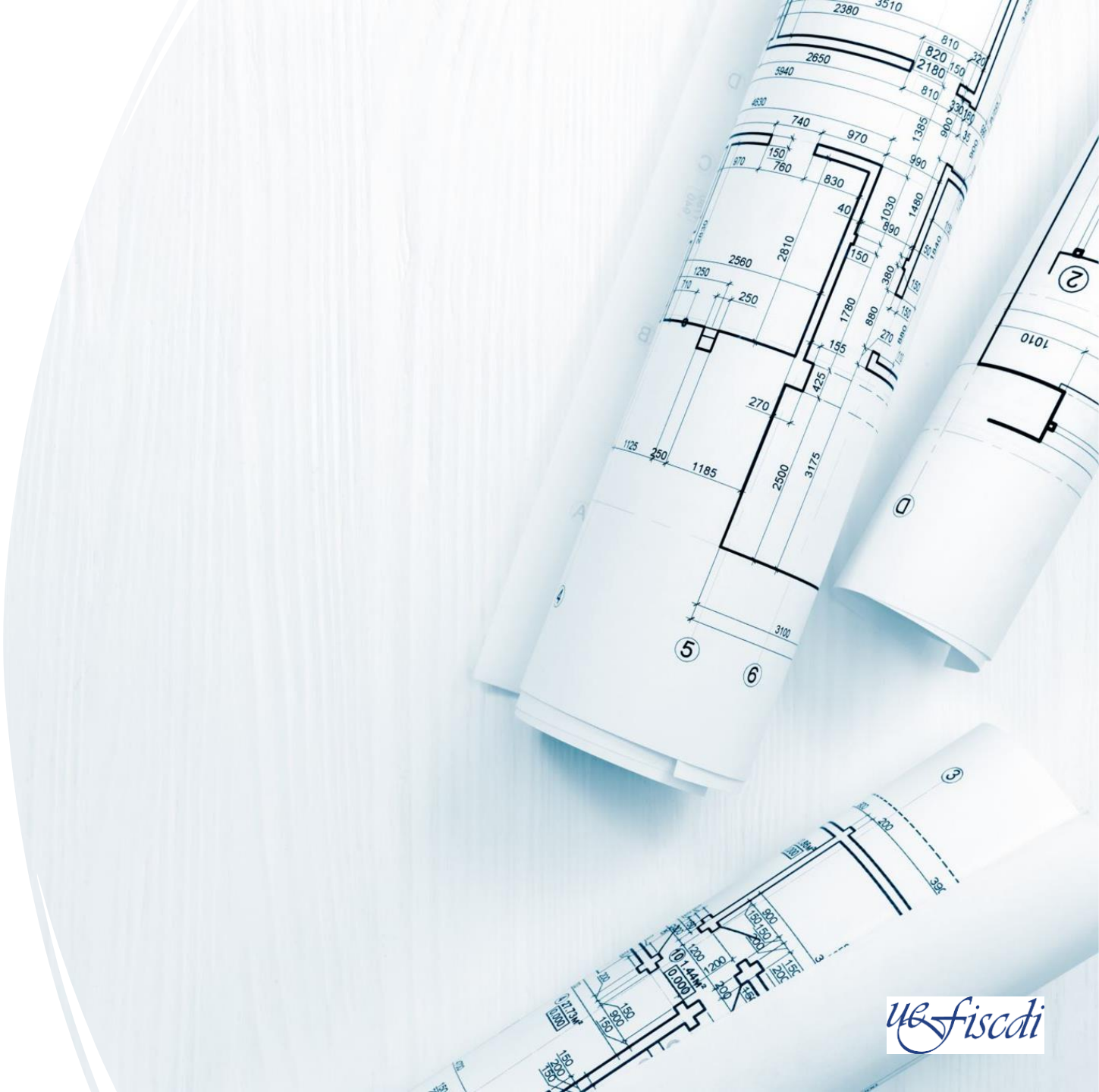
- Consolidation of Romanian scientific research by establishing **partnerships** in areas of demonstrated scientific excellence of research organizations, in order to form a **critical mass of researchers** and the **interdisciplinarity** needed to address some challenges from the Strategic Research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

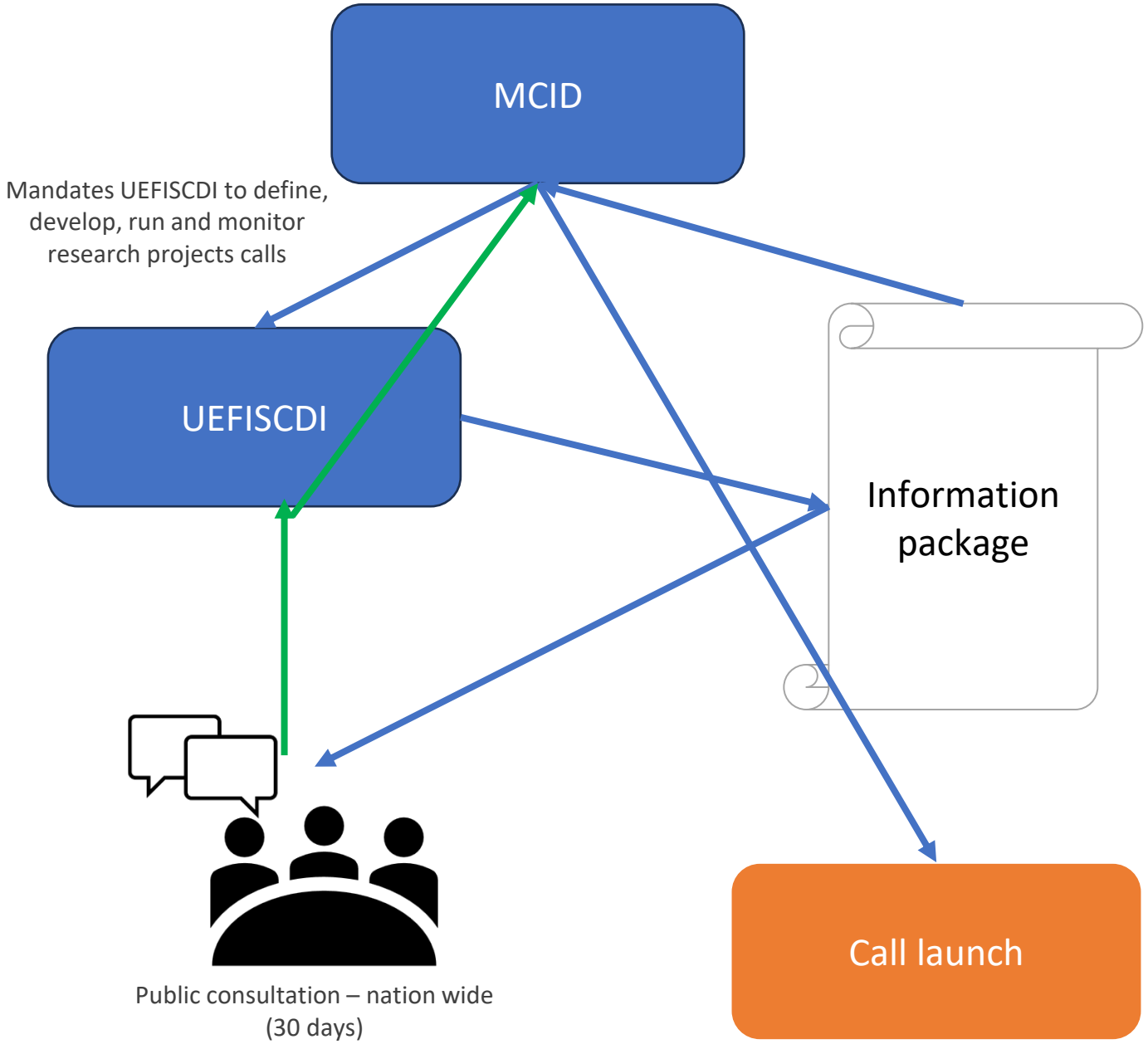
What CoEs are all about?

- 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.

Process

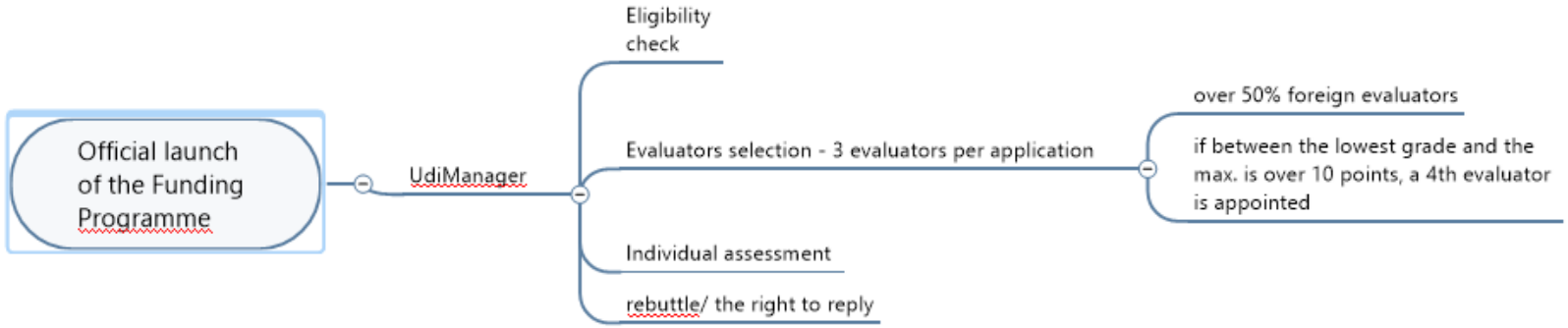
- Preparing the information package
- Assessment of project proposals




MCID
Mandates UEFISCDI to define, develop, run and monitor research projects calls
UEFISCDI
Information package
Public consultation – nation wide (30 days)
Call launch

Review & evaluation process – steps

1. Submission of projects
2. Eligibility check
3. Individual evaluation
4. Establishing consensus
5. Rebuttal
6. Consensus report
7. Panel evaluation
8. Publishing final results



https://uefiscdi-direct.ro

OS practices & RDM – part of Excellence criteria

- Describe how open science practices (e.g. Open Access to publications[6], research data management, citizen science, and other[7] 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

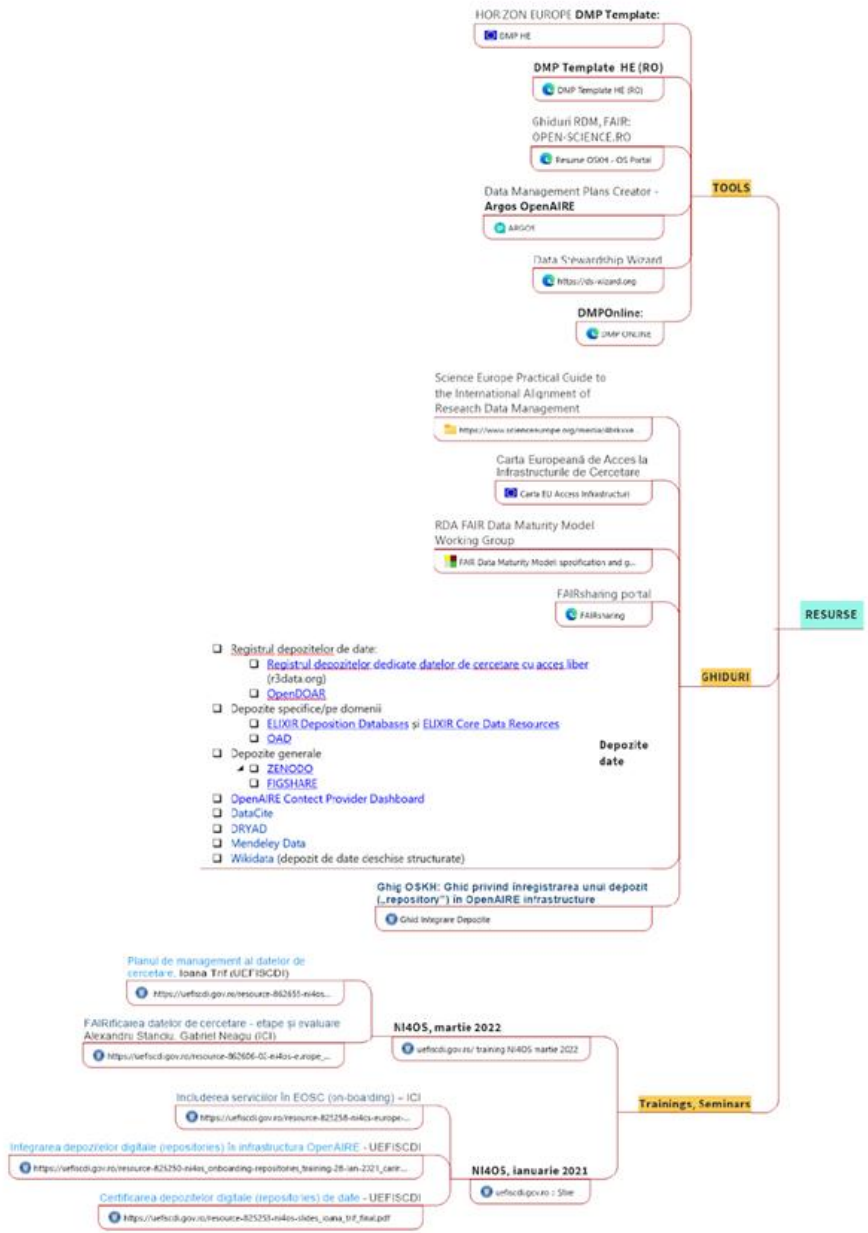
Evaluation Criteria for Centers of Excellence

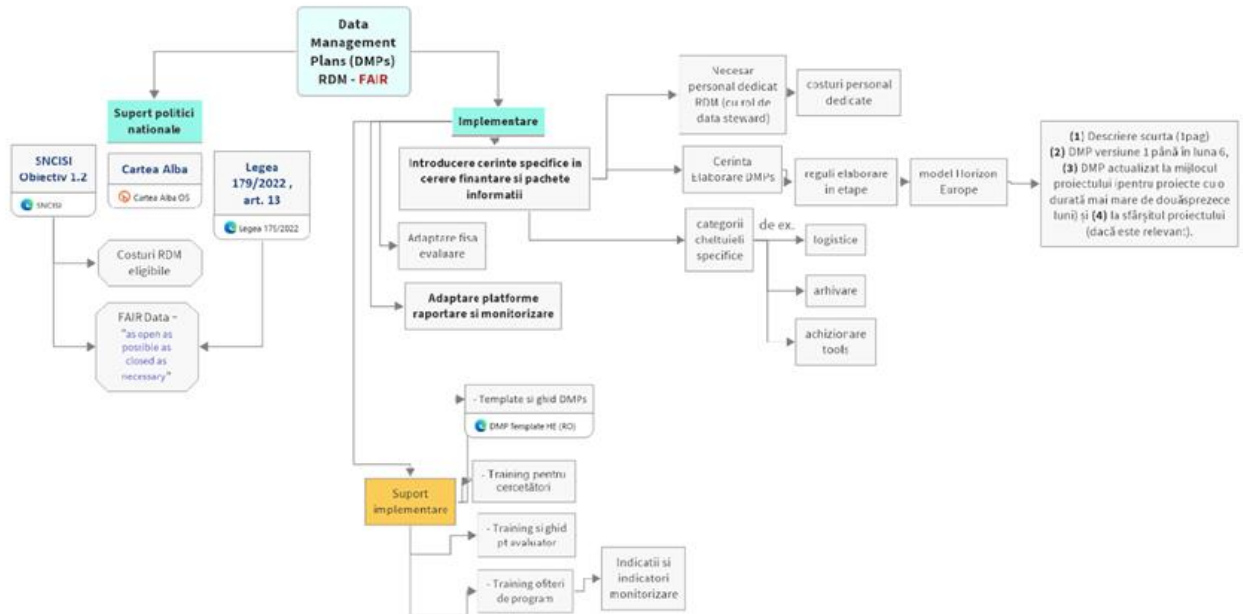
(CoE 2023)

Criterion 1: Excellence	***(40%)***

To what extent:

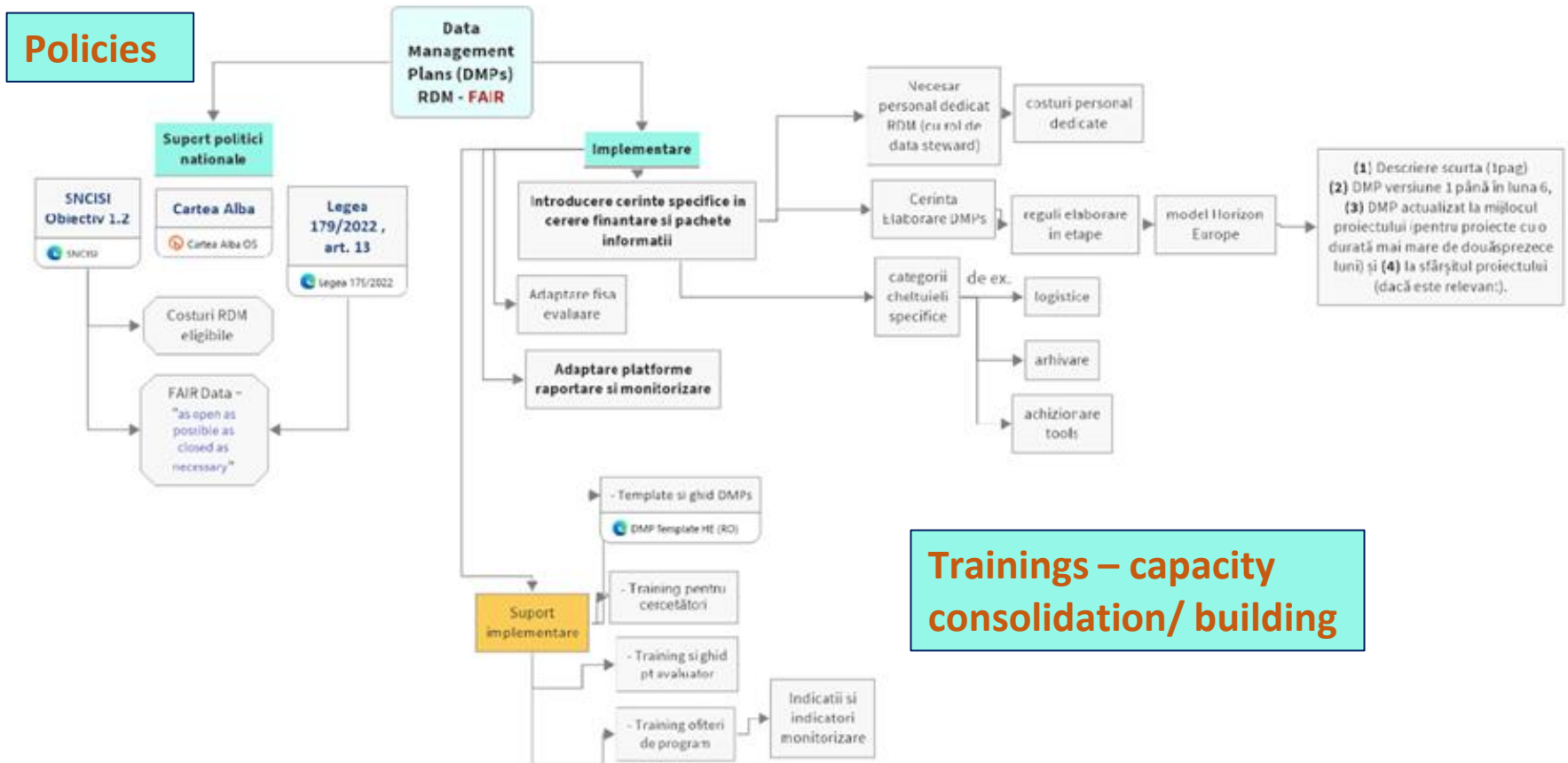
- *the proposed research addresses important research challenges that will have great impact on international/national research themes and/or research methods;*
- *the objectives are ambitious and beyond the state-of-the-art (e.g. novel concepts and approaches, development of novel methodology or development between or across disciplines); they are clear, realistic, and measurable;*
- *the proposed research has the potential to achieve ground-breaking results;*
- *the outlined scientific approach is feasible;*
- *the proposed research methodologies are appropriate to achieve the scientific goals of the center by the end of the project;*
- *the combination of scientific elements put forward in the proposal is crucial to address the scope and complexity of the research question;*
- *the proposed strategy and research methodology are interdisciplinary;*
- *the Open Science practices are well demonstrated;*
- *the research data management is convincing in compliance with the FAIR principles.*


RESURSE
TOOLS
HORIZON EUROPE DMP Template:
DMP HE
DMP Template HE (RO)
DMP Template HE (RO)
Ghiduri RDM, FAIR:
OPEN-SCIENCE.RO
Resurse OS04 - OS Portal
Data Management Plans Creator - Argos OpenAIRE
ARGOS
Data Stewardship Wizard
https://ds-wizard.org
DMPOnline:
DMP ONLINE
GHIDURI
Science Europe Practical Guide to the International Alignment of Research Data Management
Carta Europeană de Acces la Infrastructurile de Cercetare
Carta EU Access Infrastructuri
RDA FAIR Data Maturity Model Working Group
FAIR Data Maturity Model: specification and g...
FAIRsharing portal
FAIRsharing
Registrul depozitelor de date:
Registrul depozitelor dedicate datelor de cercetare cu acces liber (r3data.org)
OpenDOAR
Depozite specifice/pe domenii
ELIXIR Deposition Databases și ELIXIR Core Data Resources
OAD
Depozite generale
ZENODO
FIGSHARE
OpenAIRE Contect Provider Dashboard
DataCite
DRYAD
Mendeley Data
Wikidata (depozit de date deschise structurate)
Depozite date
Ghid OSKH: Ghic privind înregistrarea unui depozit („repository") în OpenAIRE infrastructure
Ghid Integrare Depozite
Trainings, Seminars
Planul de management al datelor de cercetare, Ioana Trif (UEFISCDI)
https://uefiscdi.gov.ro/resource-862655-ni4os...
FAIRificaiea datelor de cercetare - etape și evaluare Alexandru Stanciu, Gabriel Neagu (ICI)
https://uefiscdi.gov.ro/resource-862606-01-ni4os-europe_...
NI4OS, martie 2022
uefiscdi.gov.ro/ training NI4OS martie 2022
Includerea serviciilor în EOSC (on-boarding) – ICI
https://uefiscdi.gov.ro/resource-821258-ni4cs-europe-...
Integrarea depozitelor digitale (repositories) în infrastructura OpenAIRE - UEFISCDI
https://uefiscdi.gov.ro/resource-825250-ni4os_onboarding-repositories_training-28-ian-2021_catir...
Certificarea depozitelor digitale (repositories) de date - UEFISCDI
https://uefiscdi.gov.ro/resource-825253-ni4os-slides_ioana_trif_final.pdf
NI4OS, ianuarie 2021
uefiscdi.gov.ro : Stire


Data Management Plans (DMPs) RDM - FAIR
Suport 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
Necesar personal dedicat RDM (cu rol de data steward)
costuri personal dedicate
Cerinta Elaborare DMPs
reguli elaborare in etape
model Horizon Europe
(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).
categorii cheltuieli specifice
de ex.
logistice
arhivare
achiziorare tools
Adaptare fisa evaluare
Adaptare platforme raportare si monitorizare
Suport implementare
- Template si ghid DMPs
DMP Template HE (RO)
- Training pentru cercetători
- Training si ghid pt evaluator
- Training oferi de program
Indicatii si indicatori monitorizare

Implementation steps

Policies



Trainings – capacity consolidation/ building

HORIZON EUROPE **DMP Template:**

DMP HE

DMP Template HE (RO)

DMP Template HE (RO)

Ghiduri RDM, FAIR: OPEN-SCIENCE.RO

Resurse OSKH - OS Portal

Data Management Plans Creator - **Argos OpenAIRE**

ARGOS

Data Stewardship Wizard

https://ds-wizard.org

DMPOnline:

DMP ONLINE

TOOLS

Science Europe Practical Guide to the International Alignment of Research Data Management

https://www.scienceeurope.org/media/4bkcxe...

Carta Europeană de Acces la Infrastructurile de Cercetare

Carta EU Access Infrastructuri

RDA FAIR Data Maturity Model Working Group

FAIR Data Maturity Model: specification and g...

FAIRsharing portal

FAIRsharing

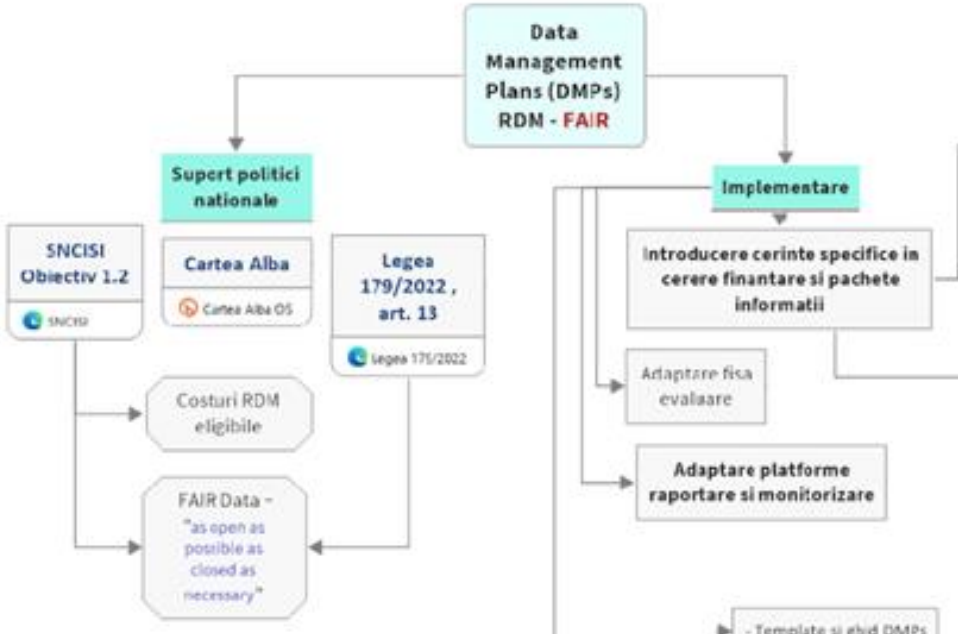
- Registrul depozitelor de date:
  - Registrul depozitelor dedicate datelor de cercetare cu acces liber (r3data.org)
  - OpenDOAR
- Depozite specifice/pe domenii
  - ELIXIR Deposition Databases și ELIXIR Core Data Resources
  - OAD
- Depozite generale
  - ZENODO
  - FIGSHARE
- OpenAIRE Contect Provider Dashboard
- DataCite
- DRYAD
- Mendeley Data
- Wikidata (depozit de date deschise structurate)

Depozite date

GHIDURI

RESURSE

Ghig OSKH: Ghid privind înregistrarea unui depozit



Relevant WGs & initiatives we are part of

OS & Research Assessment

UEFISCDI

51 early signatories of CoARA

- **WG: Improving practices in the assessment of research proposals (Europen 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

Relevant WGs & initiatives we are part of

Open Access Diamond Plan signatory

Citizen Science and R&I Foresight: Part of the Policy Support Facility Challenge - Mutual Learning Exercise

Collaboration with Research Data Alliance (RDA) – support for open reseach data & EOSC (OSKH is RDA node)

Support for infrastructure & services for open science OpenAIRE NOAD Romania

EOSC related

Member of the EOSC Association (TFs Upskilling countries to engage in EOSC, Researcher engagement and adoption & Research careers, recognition and credit)

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

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

Currently - 779 members

OPEN SCIENCE
KNOWLEDGE HUB

brainmap

Join Open-Science Community in BrainMap

stay up to date get involved attend events

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

The BrainMap platform brings together the majority of researchers and entrepreneurs from the innovation ecosystem and provides access to the expertise and results of the RDI activity in Romania.

Open Science Knowledge Hub Romania – OSKH UEFISCDI, awareness raising, dissemination, support in policy implementation

brainmap

uefiscdi

OPEN SCIENCE
KNOWLEDGE HUB

Open-Science Community

A community dedicated to open science that will provide the necessary space to share news and relevant information

https://www.brainmap.ro

Open-Science Community
3 active sections:

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

Open Access

Citizen Science

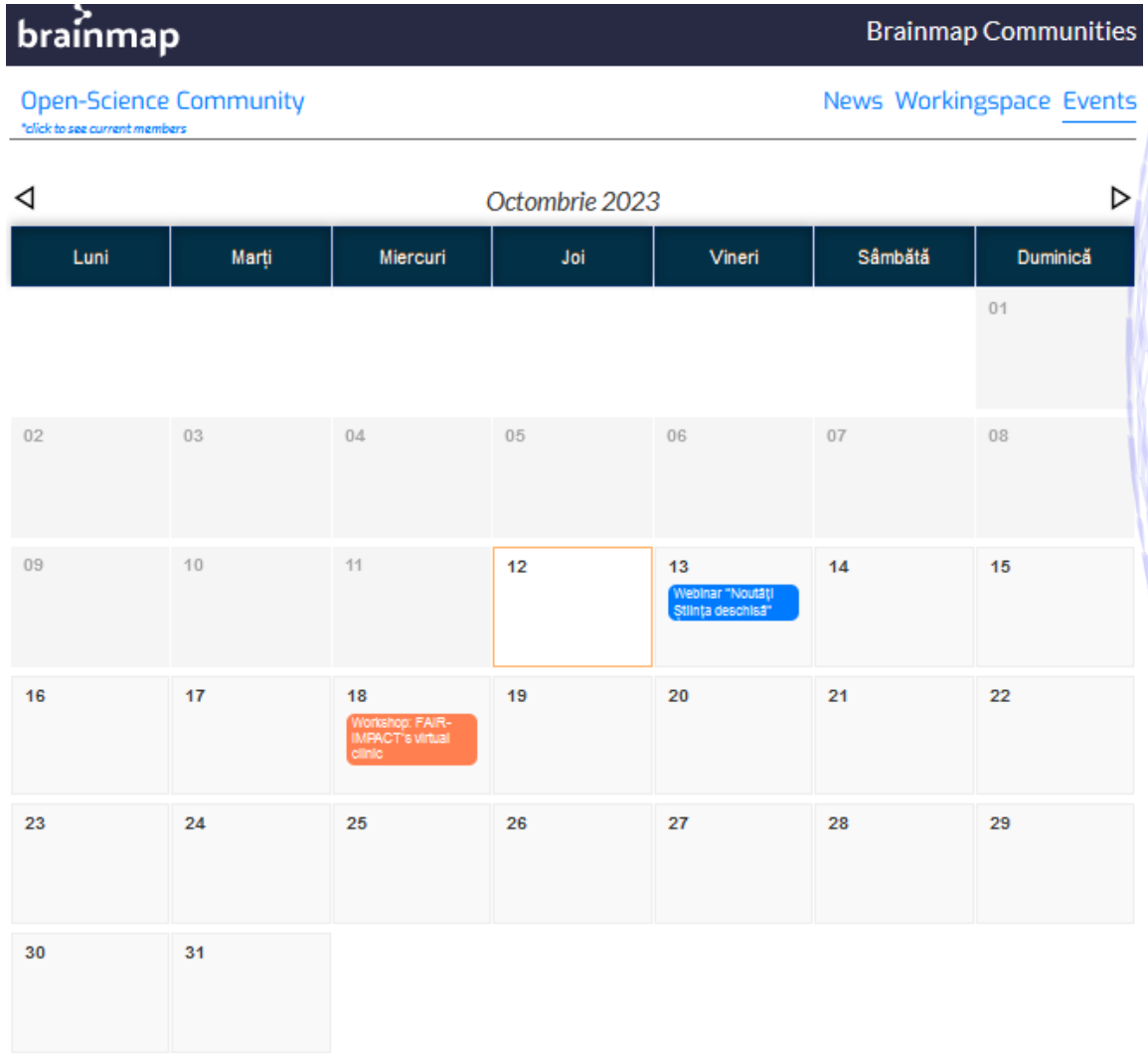
FAIR Data

OS & Research Assessment

Rights Retention

.....

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



Section 3 – **Events**

Relevant events

national & international

Questions/ Discussion

Thank you!

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