

NI4OS-Europe support and tools for FAIR in practice

FAIRsFAIR National Roadshow Series
7th July 2021

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- Name: National Initiatives for Open Science in Europe
- Acronym: NI4OS-Europe (pronounced “NEEFOS”)
- Call: INFRAEOSC-05 (b) Coordination of EOSC-relevant national initiatives across Europe and support to prospective EOSC service providers – Research and Innovation Actions
- Grant number: 857645
- Amount of EC funding: 5,599,475
- 22 Partners from 15 countries



Project overview and achievements, 1st Periodic Review Meeting, Online, 10th June 2021, Eleni Toli, Project Director, ATHENA RC

Partnership

1	National Infrastructures for Research and Technology SA	GRNET	Greece				
2	Athena Research & Innovation Center	ATHENA	Greece				
3	The Cyprus Institute	CYI	Cyprus				
4	University of Cyprus	UCY	Cyprus				
5	Institute of Information and Communication Technologies	IICT	Bulgaria				
6	SRCE – University of Zagreb, University Computing Centre	SRCE	Croatia				
7	Ruđer Bošković Institute	RBI	Croatia				
8	Governmental Agency for IT Development	KIFU	Hungary				
9	University of Debrecen	UD	Hungary				
10	National Institute for Research and Development	ICI	Romania				
11	Executive Agency for Higher Education, Research, Development & Innovation Funding	UEFISCDI	Romania				
12	Academic and Research Network of Slovenia	ARNES	Slovenia				
13	University of Maribor Library	UMUKM	Slovenia				
14	Institute of Physics Belgrade	IPB	Serbia				
15	University of Belgrade	UOB	Serbia				
16	Albanian Academic Network – Interinstitutional ICT Research Centre	RASH	Albania				
17	University of Banja Luka	UNI BL	Bosnia-Herzegovina				
18	Ss. Cyril and Methodius University in Skopje	UKIM	North Macedonia				
19	University of Montenegro, Faculty of Electrical Engineering	UOM	Montenegro				
20	Research and Educational Networking Association of Moldova	RENAM	Republic of Moldova				
21	Institute for Informatics and Automation of the Academy of Sciences of Armenia	IIAP	Armenia				
22	Georgian Research and Educational Networking Association	GRENA	Georgia				

Commit to **EOSC governance**

Be a core contributor to the **EOSC service portfolio**

Ensure **inclusiveness** on the European level



Support the **development and inclusion** of the NOSCI in 15 Member States and Associated Countries in the overall scheme of EOSC governance



Spread the **EOSC and FAIR principles** in the community and train it

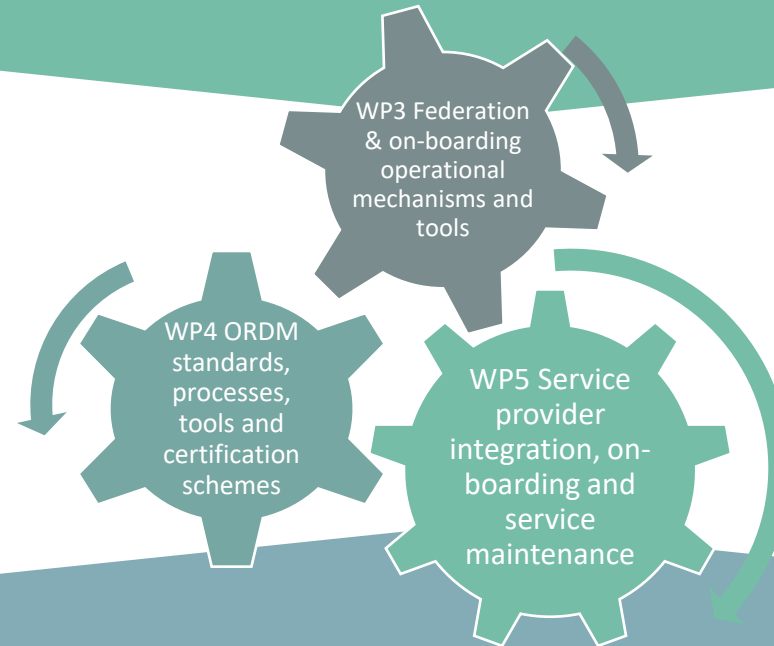


Provide **technical and policy support** in on-boarding of the existing and future service providers into EOSC

- **Build** 15 National Open Science Cloud Initiatives (NOSCI) & enable them to support the overall EOSC governance and the related EOSC coordination structure
- **Develop** technical, organisational and legal guidelines, tools & mechanisms, to support implementation of ORDM and FAIR
- **Ensure** the engagement of the targeted communities and validate the on-boarding solutions
- **Facilitate** the on-boarding to EOSC of existing infrastructures and state-of-the-art services
- **Enable** the EOSC-relevant, non-commercial services to be accessed through the EOSC portal

WP1 Management

WP2 EOSC national initiatives and policy support



WP6 User engagement, training and demonstrators

WP7 Communication, marketing, sustainability and innovation

- Recommendations & guidelines
 - Identification and analysis of existing guidelines
- Incentives
 - Analysis of current state, best practices and benefits
 - Categorisation of: rewards and incentives & key actions & key actors
 - Creation of supporting material (brochure) in English, Croatian, Serbian...
- Mapping of legal, technical and procedural tools
 - Analysis and categorization of contemporary tools supporting FAIR and ORDM



https://ni4os-europe.eu/wp-content/uploads/2021/06/NI4OS_RI_ORDM_web_EN_single_pages.pdf

Develop tools
that
enhance
RDM
ecosystems
and facilitate
EOSC
workflows

LCT – License Clearance Tool

➤ <https://lct.ni4os.eu/>

RePol – Repository Policy Generator

➤ <https://repol.ni4os.eu/>

RoLECT – EOSC RoP Legal & Ethics Compliance

➤ <https://rolect.ni4os.eu/>



LCT
License Clearance Tool



- Support Open & FAIR data in practice
- Contribute to the related EOSC offer and complement available services
- Provide technical solutions to address legal and policy aspects in FAIR and ORDM
- Web-applications with documentation, policies, manuals and individual branding

☐ Why do repository policies matter?

- ☐ Many repositories lack them but the users are increasingly relying on them
- ☐ Aggregators require technical standards to be met, but policies are not machine-readable
- ☐ Requirements and expectations for policy documents grow
- ☐ OpenDOAR provides two simple (fixed) templates, but
 - ☐ No recent updates of content
 - ☐ No guided customisation
 - ☐ RePol covers several additional topics (CTS, CORE, +privacy)

☐ Managing the policy is a serious problem for any repository manager!

- ☐ Many topics need to be covered
- ☐ A policy should be concise and understandable
- ☐ It needs to be regularly updated



➤ <https://repol.ni4os.eu/>

Wiki:

<https://wiki.ni4os.eu/index.php/RePol>

Source:

<https://github.com/RestlessDevil/RePol/>

License: [EUPL \(European Union Public License 1.2+\)](#)


Video:

<https://www.youtube.com/watch?v=WdTFRA3arHI>

RePol – Repository Policy Generator



Repository Policy Generator

 Upload

 Select

 Enter Data

 Get Results

Data Download/Upload

If you wish to edit an existing policy generated using RePol, upload the previously generated document or standalone XML

 Choose

 Upload

 Cancel



Clear Data



RePol – Repository Policy Generator



Upload Select Enter Data Get Results

Document Creation Forms

<input checked="" type="radio"/>	Repository Policy Creation of customised repository policies	0 field(s) set out of 2 mandatory 37 field(s) set out of 37 relevant
<input type="radio"/>	Privacy Policy Generic service Privacy Policy (Beta)	

Repository Policy:

General Information

- ☐ Repository name
- ☐ Repository URL
- ☐ User manual URL
- ☐ Owning organization(s)
- ☐ Institutional Open Access/Science policy URL
- ☐ Policy renewal interval in years
- ☐ Include preamble
- ☐ Preferred OpenDOAR policy flavour
- ☐ Include Creative Commons licenses explainer
- ☐ Date of policy document

Metadata

- Restricted access to some metadata
- Flavour of the metadata license
- Mention repository owner in re-used metadata

Data/Content Access

- Restricted access to some items
- Flavour of the content license
- Commercial use of items allowed

Content

- Repository type
- Repository subjects
- Principal languages

Submission

Versioning

Privacy

Harvesting

Curation

Preservation

How does RePol support EOSC?

Provides an easy to use but flexible tool for repository policies.

- Well-explained choice-based creation of policies
- Policies can be updated to reflect new needs and choices
- Minimise users' privacy concerns
- Create several documents using the same data
- Allow policy choices and options to be saved in JSON or XML

A valuable addition to the EOSC portfolio: no other similar tools!

Can be applied to other “policy needs” (e.g., new Privacy Policy template).

Contributes to the development of machine-readable policies.

- ❑ LCT comes as a response to the increased demand for providing technical solutions to address legal aspects in FAIR and ORDM.
- ❑ Addresses the complexity of legal interoperability in scenarios where available IPR options need to be examined for derivative works.
- ❑ Helps to address legal uncertainty about usage rights and high costs in the clearance of licensing issues.
- ❑ Bundles the technical process with the legal aspects, supporting the science community, mainly focusing on technical aspects, to address both.

LCT
License Clearance Tool



➤ <https://lct.ni4os.eu/>

Wiki:

https://wiki.ni4os.eu/index.php/License_Clearance_Tool_-_Description_and_Documentation

Source: <https://github.com/ni4os-europe/license-clearance-application>

License: [EUPL \(European Union Public License 1.2+\)](#)

How does LCT support EOSC?

Open-source tool to facilitate and automate the clearance of research outputs' copyright.

Supports researchers in publishing in FAIR and open modes.

Allows data managers to compete against untidy, messy and not well-defined data, maximising re-use of derivative works.

Automates the clearance of rights (copyright) for datasets, media, software, effectively reducing time to publicly release properly licensed content.

Adds to available services/tools in the EOSC service catalogue.

- ❑ Facilitates a self-assessment for compliance to legal and ethical aspects of the EOSC Rules of Participation.
- ❑ Legal and ethics are two important aspects in the RoP.
- ❑ These aspects require particular focus due to their nature and the difficulties associated (specialised knowledge, experience, etc.)
- ❑ Not yet been addressed adequately from other FAIR-related tools.
- ❑ RoLECT integrates several existing modelled procedures.
- ❑ Structured flow providing logic steps for testing a potential EOSC service/dataset against current RoP.



➤ <https://rolect.ni4os.eu/>

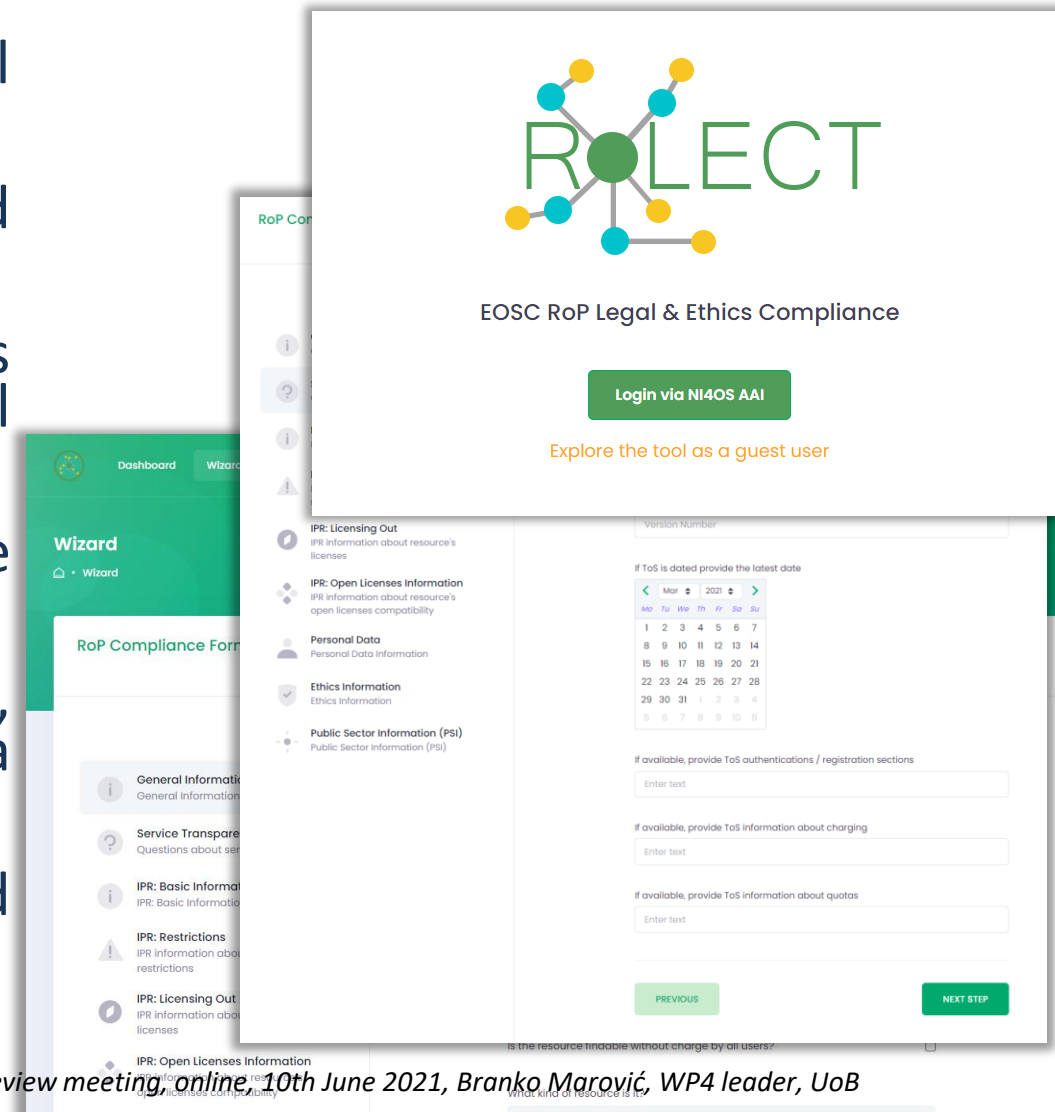
Wiki:

https://wiki.ni4os.eu/index.php/EOSC_RoP_Legal_%26_Ethics_Compliance_-_Description_and_Documentation

Source: <https://githubco/ni4os-europe/rolect-application>

License: [EUPL \(European Union Public License 1.2+\)](#)

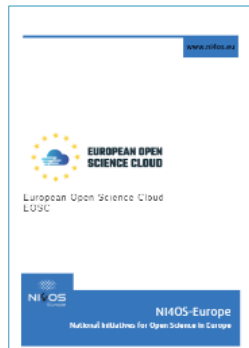
- ❑ Guided compliance self-assessment for legal and ethics EOSC RoP.
- ❑ Targets service providers, researchers and research organisations.
- ❑ Mitigates legal uncertainty and ensures compliance with the key legal and ethical aspects.
- ❑ Successfully reduces the time for compliance evaluations.
- ❑ Mainstreams EOSC RoP compliance procedure, tracking changes, identifying and constructing a series of legal and ethical rules.
- ❑ Will evolve aiming to become a standard assessment for EOSC RoP.



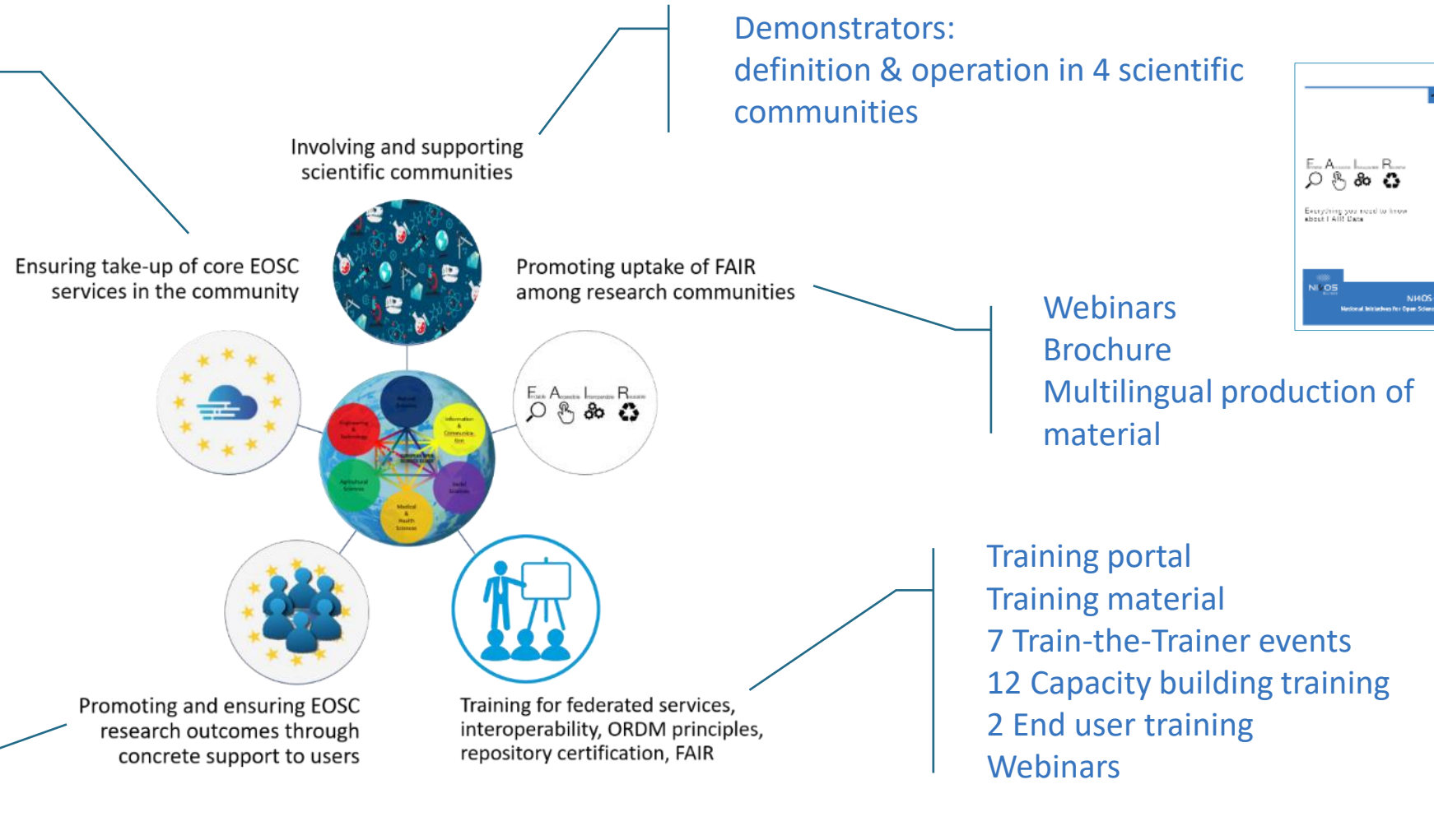
WP4: Open research data management standards, processes, tools and certification schemes, 1st Periodic review meeting online 10th June 2021, Branko Marović, WP4 leader, UoB

EOSC promoters in all countries
Webinars
Brochure

Multilingual production of material



15 Translation Officers
Multilingual production
of material
Incentives list for
supporting EOSC



T6.3 – Support to EOSC service uptake and FAIR uptake in communities

translation officers and their actions

Everything you need to know about FAIR Data



European Open Science Cloud



NI4OS-Europe video



<https://www.youtube.com/watch?v=M8LnIP3INbo>

RO



Romania - România



Tot ce trebuie să știi despre datele FAIR



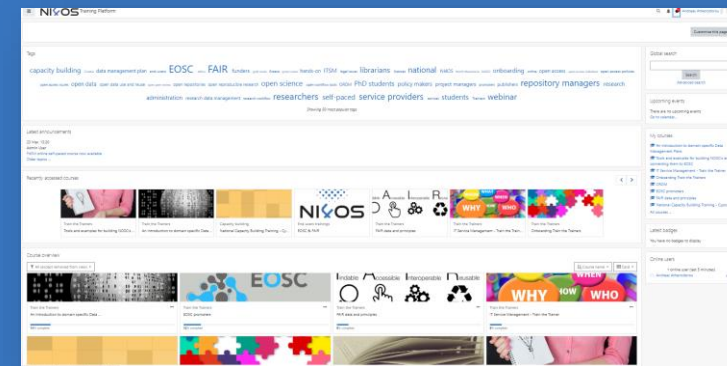
Cloud European pentru Știință Deschisă - EOSC

<https://training.ni4os.eu/course/view.php?id=52>

- ❑ Access to training material through the training portal
- ❑ Each country organises 2 training events
 - ❑ Capacity building
 - ❑ End users'
- ❑ 7 train-the-trainer events
 - ❑ FAIR data principles
 - ❑ National EOSC promotion
 - ❑ ORDM
 - ❑ Onboarding
 - ❑ How to host a successful virtual event
 - ❑ IT service management
 - ❑ An introduction to domain specific DMPs

In a number of events we collaborated with OpenAIRE, EOSC-hub, EOSC-Synergy, EOSC-Pillar, EOSC-Secretariat, FAIRsFAIR and EGI

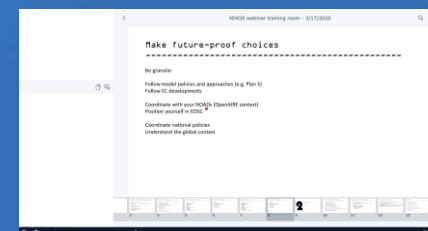
Training portal: <https://training.ni4os.eu>



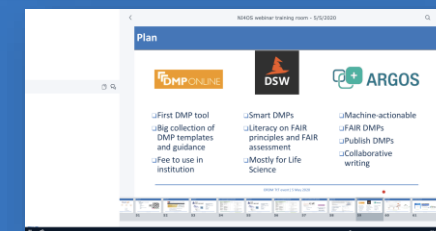
FAIR data and principles



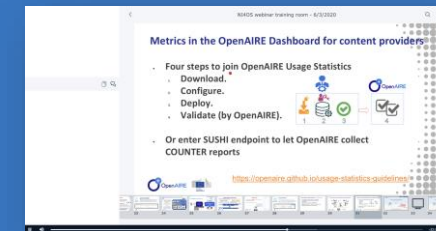
ORDM



National EOSC promotion



On-boarding



WP6: User engagement, 1st Periodic review meeting, online, 10th June 2021, Dr. Andreas Athenodorou, WP6 leader, The Cyprus Institute

- ❑ D4.1 Incentives for supporting ORDM and FAIR
- ❑ D4.2 Data repository integration and ORDM/FAIR compliance guidelines
- ❑ D4.3 Mapping of legal, technical and procedural tools

- ❑ Deliverable D6.1 EOSC service and FAIR uptake strategy
- ❑ Deliverable D6.2 Training plan
- ❑ Deliverable D6.3 User Communities' test-cases
- ❑ Deliverable D6.4 Service evaluation by user communities

Important line of action



Support the development and inclusion of the National Open Science Cloud Initiatives in 15 Member States and Associated Countries in the overall scheme of EOSC governance

National Open Science Cloud Initiatives

Coordinators: UEFISCDI, ICI and IFIN-HH



Noutăți Open Science

RO-NOSCI

Data sharing COVID-19

Open Science Knowledge Hub Romania projects:

- OpenAIRE Advancing Open Scholarship
- National Initiatives for Open Science (NI4OS)
- Research Data Alliance (RDA) Node
- Dezvoltarea cadrului strategic pentru Open Science în România

<https://youtu.be/M8LnIP3INbo>

National OS Portal – under development

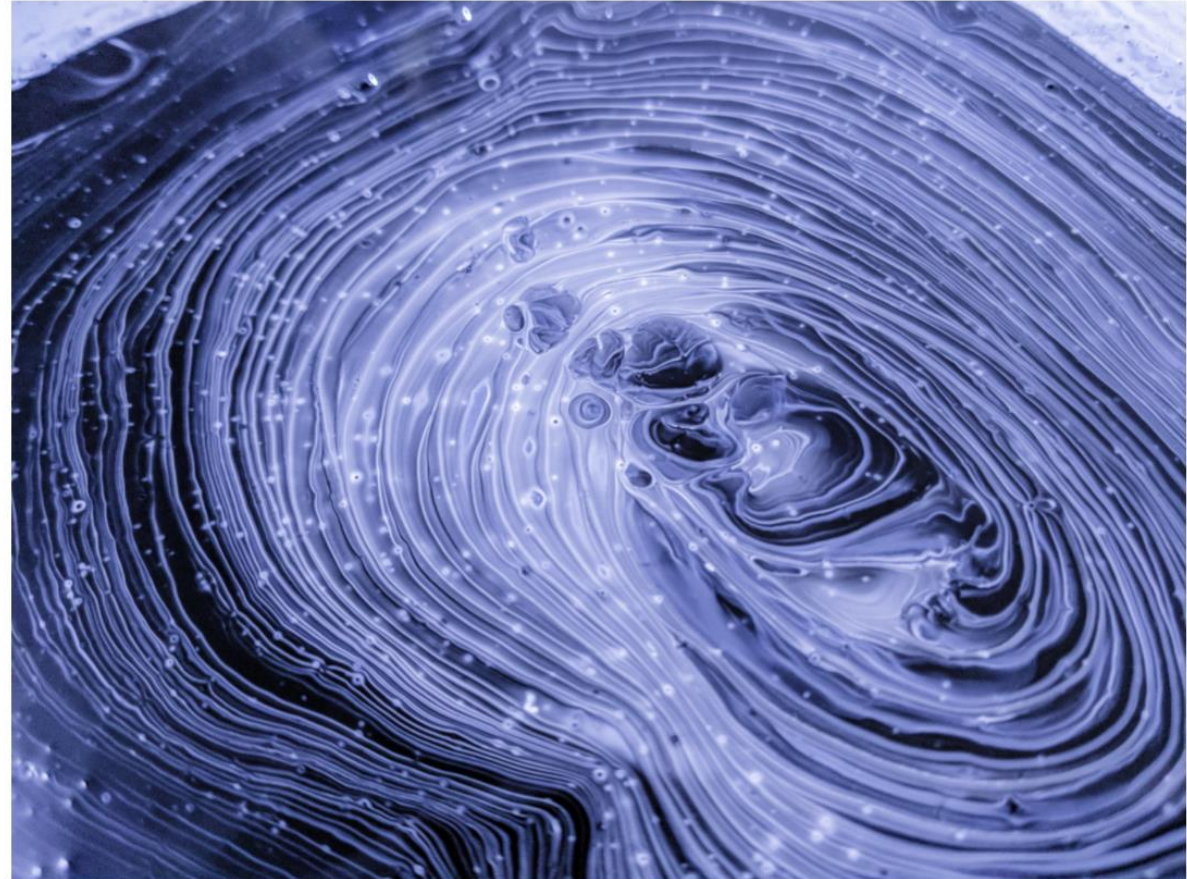
WELCOME TO OPEN SCIENCE

Join the Open Science movement

Join, Listen, Share and Collaborate.
Be part of the transition on how
researchers collaborate and science
is made.

[Learn more](#)

[Membership](#)



National OS Portal – under development



OPEN SCIENCE

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Repositories

Projects

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CAREFULLY CURATED

Open science resources

While there are thousands of open resources online, our teams do their best to provide coherency and pragmatism when recommending a resource.

See our resources



MINAREA REZULTATELOR CERCETĂRII

Depozitarea în arhive digitale („repository”) cu acces liber

O arhivă digitală cu acces liber vă permite diseminarea lucrării științifice indiferent dacă a fost publicată sau nu. Depozitarea într-o arhivă cu acces liber nu substituie însă procesul de publicare într-o revistă. O astfel de arhivă garantează păstrarea pe termen lung și o accesibilitate pe scară largă, ceea ce nu este valabil în cazul rețelelor sociale academice precum ResearchGate sau Academia. Nu se limitează doar la articole - puteți, de asemenea, să depozitați o teză, un capitol de carte, un poster, un set de date, un raport, o prelegere, o lucrare prezentată în cadrul unei con-

ferințe, teză de doctorat sau un raport. Arhivele cu acces liber pot fi pe discipline, instituționale sau naționale. Dacă nu ați primit recomandări specifice, puteți apela la biblioteca instituției dumneavoastră pentru a fi îndrumați în scopul alegerii celui mai potrivit depozit digital.

www.biorxiv.org

bioRxiv este o arhivă pentru preprint-uri în domeniul biologiei, care se bazează pe modelul arXiv

www.arxiv.org

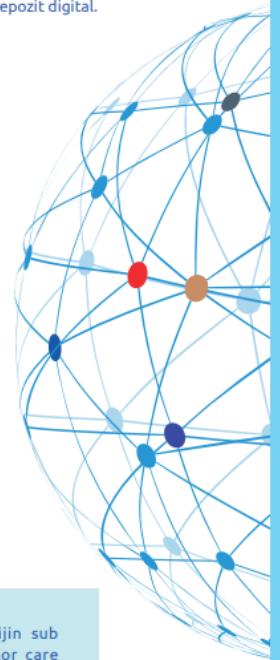
arXiv
(matematică, fizică și astronomie);

www.v2.sherpa.ac.uk/opensoar/

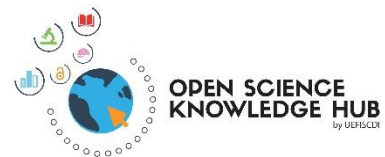
OpenDOAR este registrul internațional al depozitelor online cu acces liber.

De reținut

Arhivele cu acces liber asigură în general sprijin sub forma de ghiduri online sau tutoriale video celor care depozitează lucrări științifice.

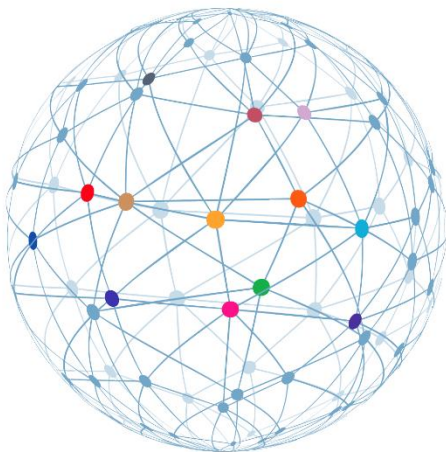


Thank you!



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<https://uefiscdi.gov.ro/open-science-hub>



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