

# National Initiatives for Open Science in Europe



Use case 2:

EOSC added value from a regional project– EOSC NI4OS community tools

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# NI4OS-Europe area characteristics

- Diversity - different levels of maturity of:

- Open Science policies & initiatives
- Research Infrastructures
- Research & Education policies

- Political instability often affects introduction & implementation of OS policies at national level

- Science collaboration across countries the region lacks sustainable structures

- Regional collaboration for EOSC

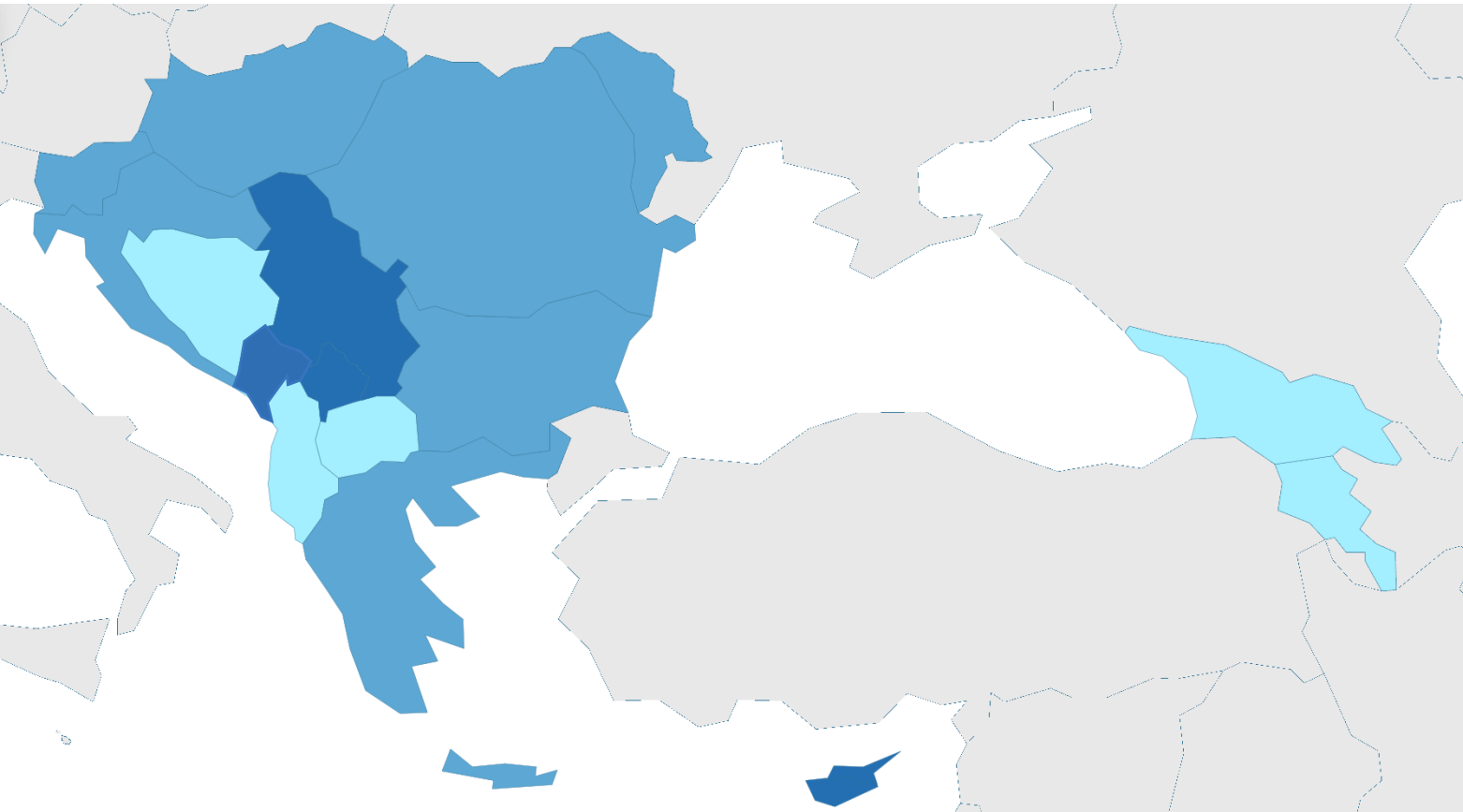
- Integration, interconnection and consolidation through ESFRI

- Political support from 12 countries in several ESFRI RIs
- Participation across all scientific domains, from various institutions from region
- 3 countries no ESFRIs (Armenia, Georgia, Montenegro) → role of EOSC in the support of RI users



15 Member States and Associated Countries | 22 Partners

# Landscaping: National Open Science policies

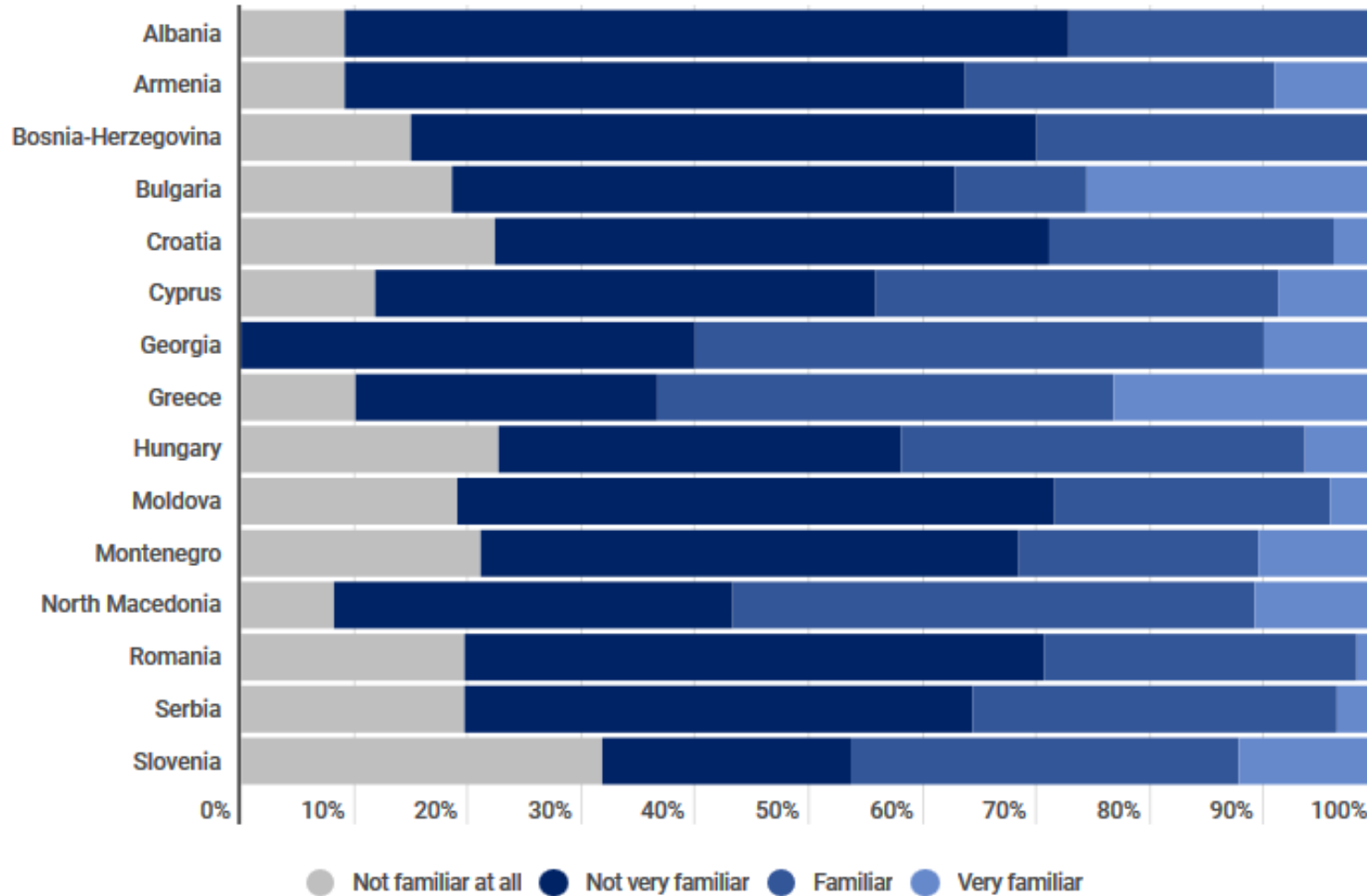


■ No national OS policy   ■ National OS strategy/plan   ■ National OS policy

3 different levels in the region:

- Initial actions within the country
- OS policy documents exist
- National OS strategy/plan or officially established initiative exists

# Landscaping: Familiarity with EOOSC



- Not very familiar with EOOSC
- Knowledge about FAIR principles is slightly higher (in comparison to EOOSC)
- OS facilitators & supporter are better informed & involved

# Lines of action

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## Policies | Governance | Inclusion

Support the development and inclusion of the national Open Science Cloud (OSC) initiatives in 15 Member States and Associated Countries in the overall scheme of EOSC governance



## Training | Research Communities Engagement | Awareness

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



## Service Development | Technical Support

Provide technical and policy support in on-boarding of the existing and future service providers into EOSC, develop services supporting ORDM and FAIR

# Supporting FAIR & OS across research communities



## Tools

*Addressing principles; focus on legal aspects and EOSC*

- LCT- License Clearance Tool  
➔ <https://lct.ni4os.eu/>
- RoLECT - EOSC RoP Legal & Ethics Compliance  
➔ <https://rolect.ni4os.eu>
- RePol – Repository Policy Generator  
➔ <https://repol.ni4os.eu>



## Training

*Promoting practices and skills – uptake*

- Network of trainers
- Network of EOSC promoters
- Resources on Open and FAIR RDM  
FAIR Maturity Model, FAIRify, ORDM training, ...
- Supporting material produced  
Translations, guidelines, incentives



## Onboarding

*Applying principles in practice – implementation*

- Pre-production environment  
AGORA, ARGO, AAI
- On-boarding support  
generic & thematic services and repositories
- Demonstrators  
4 scientific communities  
Open call for combination of thematic & generic services and repositories to simulate real-life scientific problems

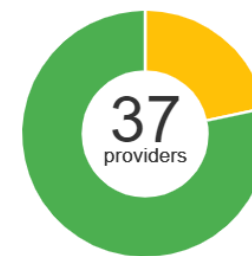
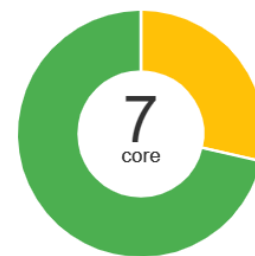
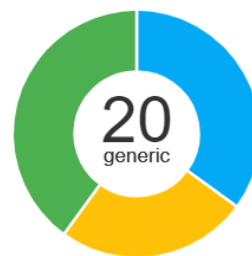
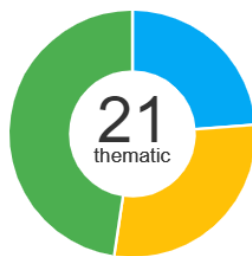


## Community







*Creating awareness; building capacity*

- NOSCIs  
OS stakeholders in each country supporting EOSC governance
- Network of EOSC promoters  
EOSC ambassadors highlighting on the ground FAIR & OS
- Network of translation officers  
Speaking FAIR and OS in national languages

# NI4OS-Europe catalogue



## Recently on-boarded resources

REPOSITORY	ON-BOARDED	REPOSITORY	ON-BOARDED	THEMATIC	ON-BOARDED	THEMATIC	ON-BOARDED	THEMATIC	ON-BOARDED	THEMATIC	ON-BOARDED
											
<b>CHERRY - CHEmistry Repository</b> — Institutional repository of the		<b>CeR - Central Repository of the Institute of Chemistry, Technology and Metallurgy</b>		<b>OpenBioMaps</b> — Open and free biological database service		<b>Reduce and Visualize Gene Ontology</b> — Web service that summarizes long and unintelligible lists of gene ontology.		<b>OMApp</b> — Cloud application for automatic image processing and		<b>Ingredio Application</b> — Enhancing the food & cosmetic OpenAIRE Research	

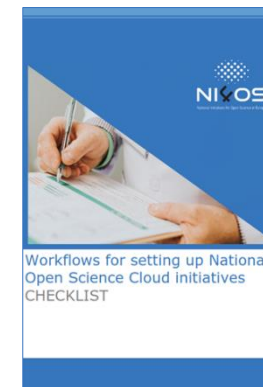
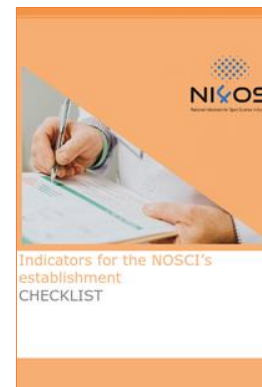
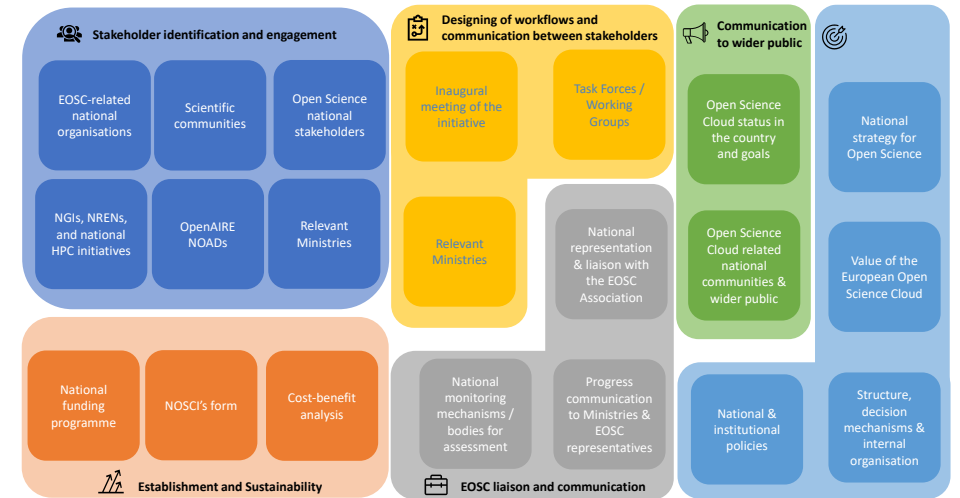
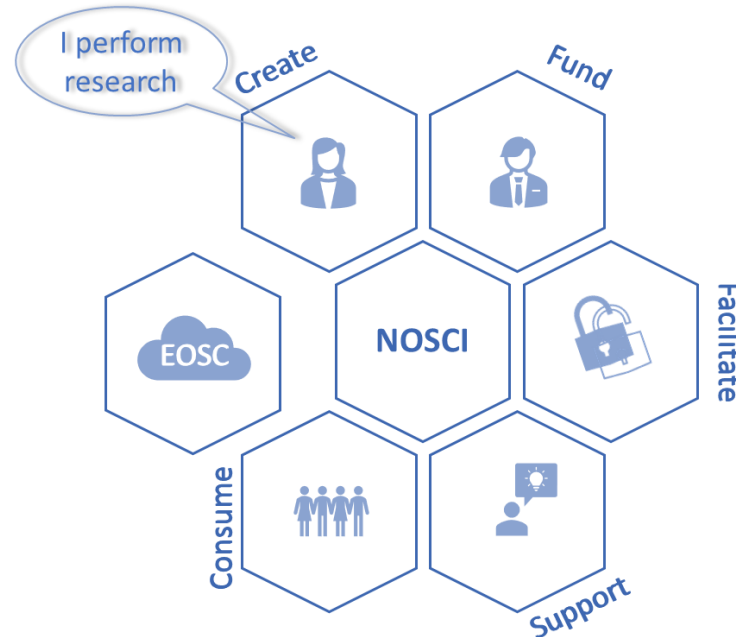
<https://catalogue.ni4os.eu/>

# Engagement at national level

**National Open Science Cloud Initiatives – NOSCI:** living national OS ecosystems that support EOSC Governance and embrace diversity and OS maturity of countries

## NOSCI setup toolbox

- Modular methodologies & workflows
- Assessment & monitoring
- Operational aspects & sustainability





# Partnering for Open Science

**Operators of  
services for  
research &  
technology**



**Open Science  
communities &  
infrastructures**

Infrastructure and services are built and used by the research communities

Delivery of EOSC services and governance rely on multiple components: national initiatives, thematic research communities, horizontal infrastructures & community tools

Federation and integration into EOSC: importance of provision of technical support to ensure FAIRness of and interoperability between national and EOSC services

Cross-fertilization between EOSC and ESFRI is important for the interdisciplinary research and FAIR data sharing

Horizontal alignment in activities concerning engagement, monitoring and assessment

# Thanks!

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