National Initiatives for Open Science in Europe

NI4OS-Europe national dissemination event in North Macedonia

30th March 2022

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Overview of the presentation

☐ Southeast Europe area

☐ National Open Science Initiatives (NOSCIs) in SEE

☐ Conclusions

Southeast Europe

NI4OS-Europe area characteristics

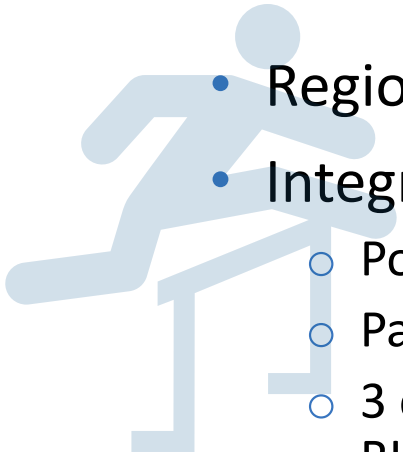□ **Diversity - different levels of maturity of:**
  □ Open Science policies & initiatives
  □ Research Infrastructures
  □ Research & Education policies

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

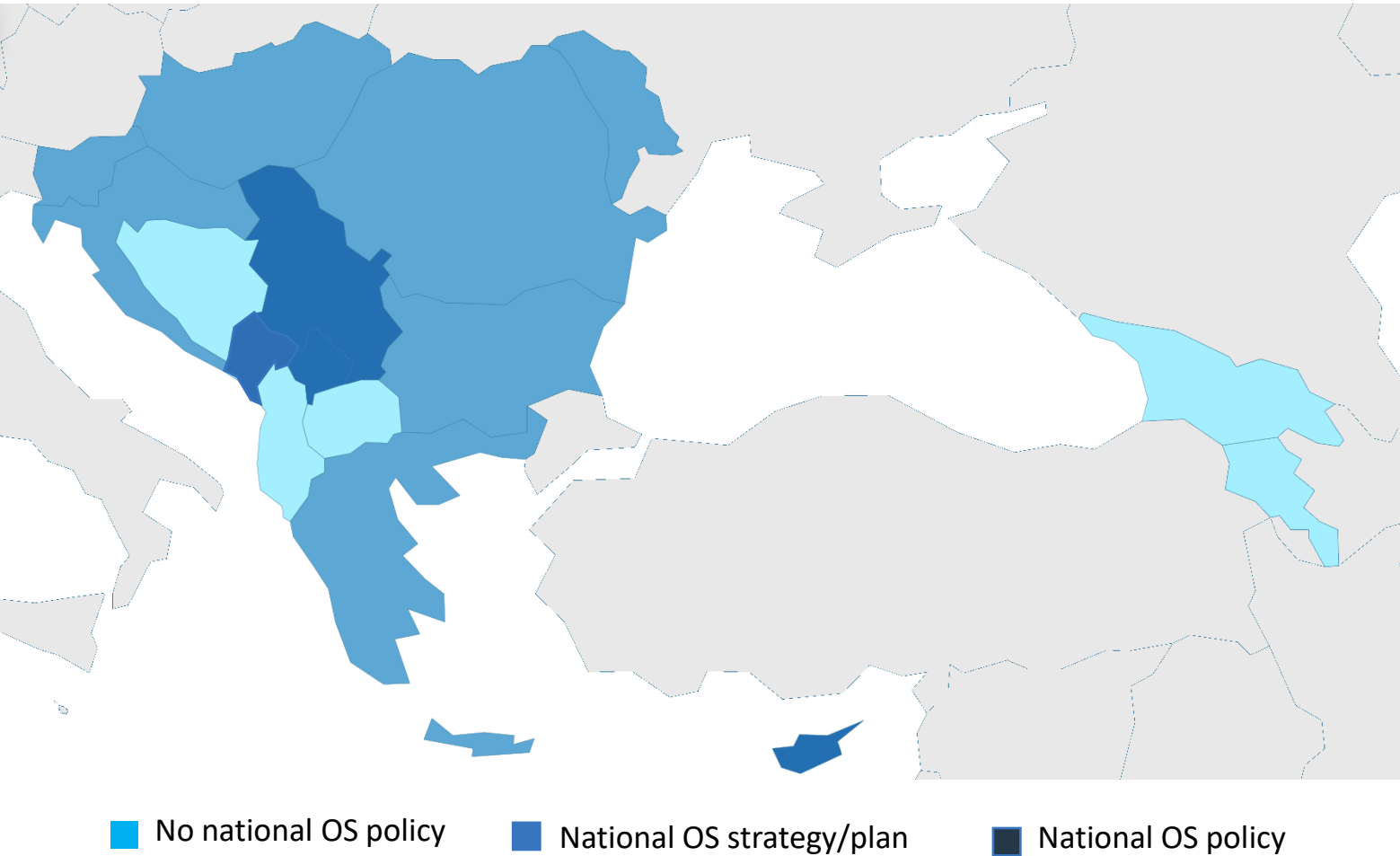□ **Science collaboration across countries the region lacks sustainable structures**

Greece	Hungary	Albania	Republic of Moldova
Cyprus	Romania	Bosnia-Herzegovina	Armenia
Bulgaria	Slovenia	North Macedonia	Georgia
Croatia	Serbia	Montenegro	

Participating countries

15 Member States and Associated Countries **|** 22 Partners

- **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
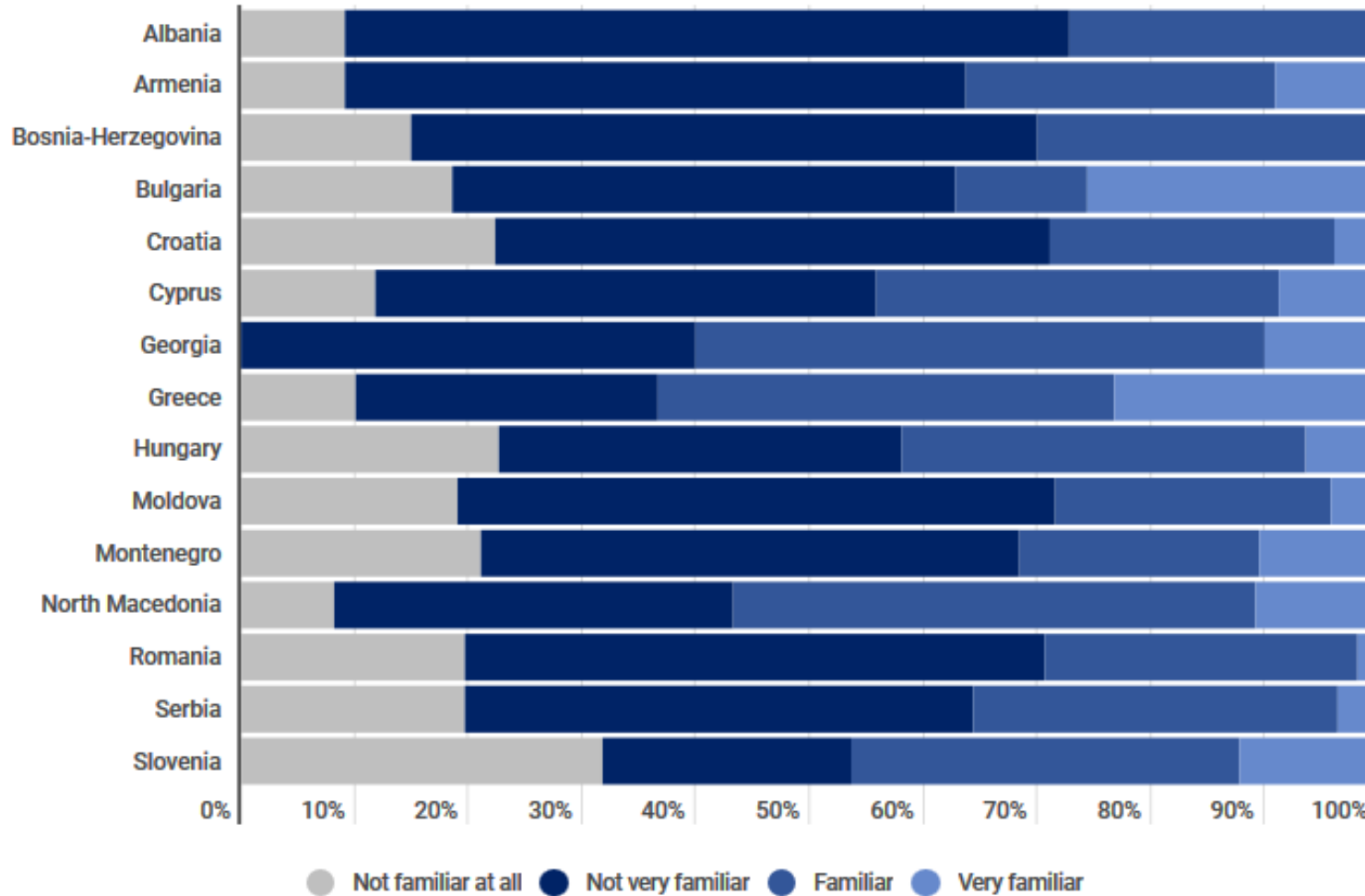
Landscaping: National Open Science policies

3 different levels in the region:

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

Legend:
- No national OS policy
- National OS strategy/plan
- National OS policy

Landscaping: Familiarity with EOSC

- Not very familiar with EOSC

- Knowledge about FAIR principles is slightly higher (in comparison to EOSC)

- OS facilitators & supporter are better informed & involved

Partustering for Open Science

Operators of services for research & technology

Open Science communities & infrastructures

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

NOSCIs in SEE

National structures supporting EOSC

National Open Science Cloud Initiatives – NOSCIs: living national OS ecosystems that support EOSC Governance and embrace diversity and OS maturity of countries
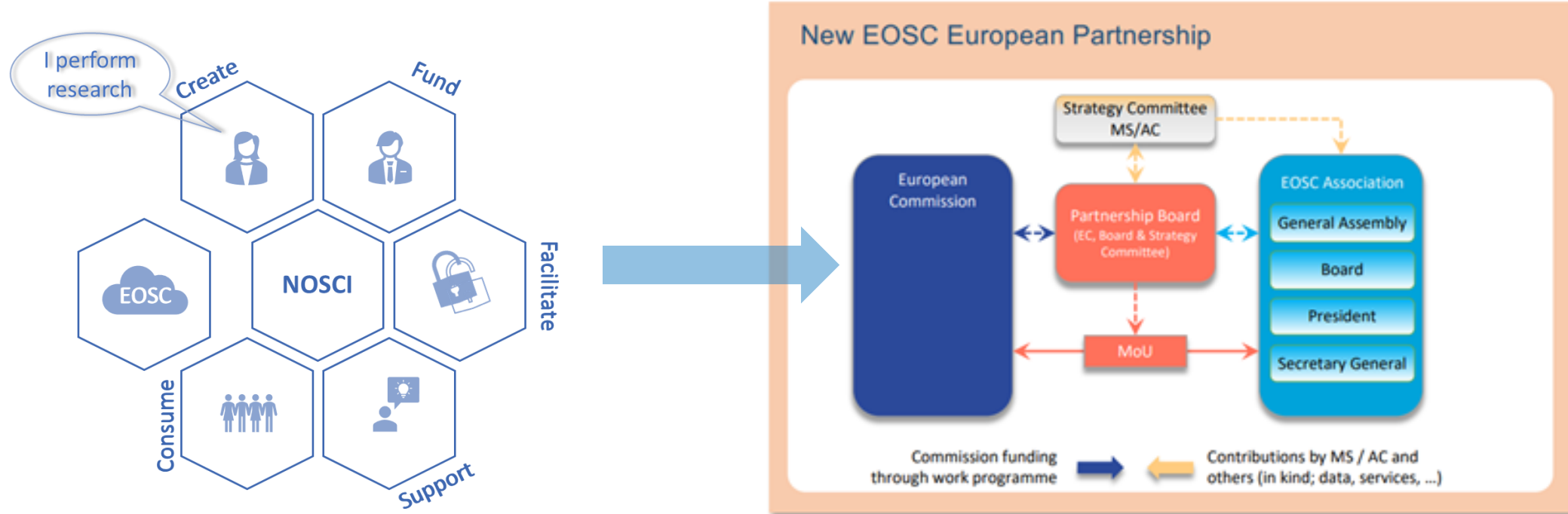
NOSCIs: tangible outcomes & EOSC-A representation

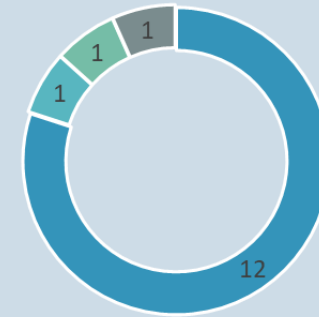## Set-up approach

Top-down

Cyprus
Slovenia

Bottom-up

Armenia, Georgia
Greece, Montenegro

Hybrid

Albania, Bosnia-Herzegovina,
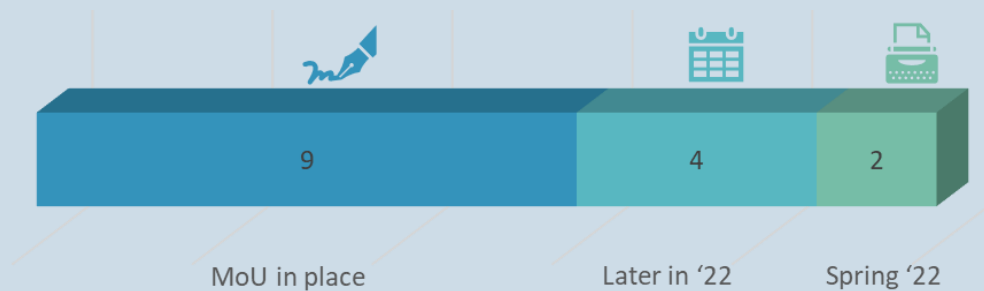Bulgaria, Croatia, Hungary, Moldova,
North Macedonia, Romania, Serbia

Governance model

1
1
1
12

- Consortium
- Single organisation
- Other
- N/A

> 150 official members (organisations)
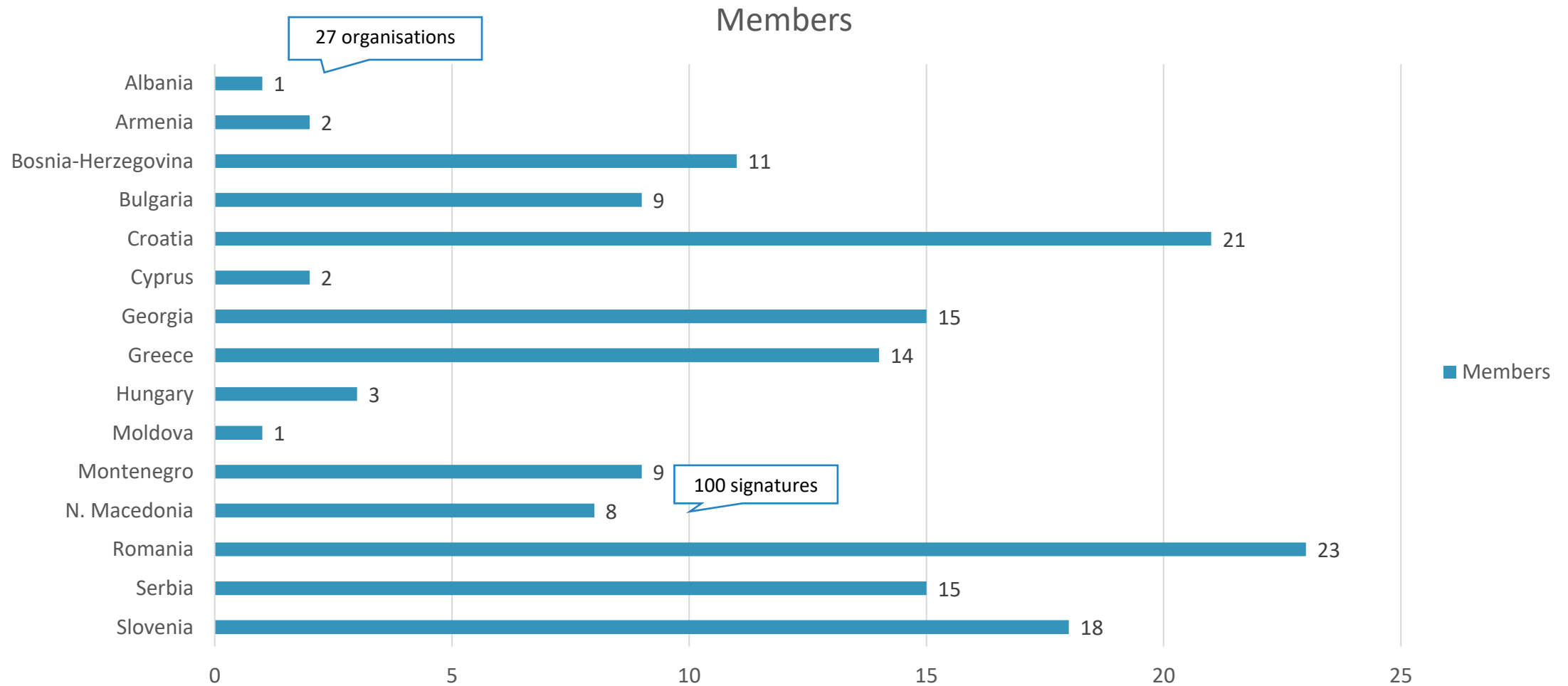
> 300 attendees in national events

MoU status

9
4
2

MoU in place
Later in '22
Spring '22

NI4OS-Europe region in EOSC-A

6   Mandated organisations
12 Members
6   Observers

NOSCI members

Members

27 organisations

Country	Members
Albania	1
Armenia	2
Bosnia-Herzegovina	11
Bulgaria	9
Croatia	21
Cyprus	2
Georgia	15
Greece	14
Hungary	3
Moldova	1
Montenegro	9
N. Macedonia	8
Romania	23
Serbia	15
Slovenia	18

100 signatures

NI4OS Toolbox for supporting NOSCIs

Setting up options

Top down
Central decision of the related ministry or national research funding organisation

Bottom up
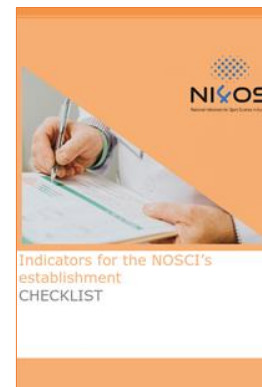Initiative by researchers, OS stakeholders and actors in the country

Hybrid
Combination of previous two, independently of who initiated it
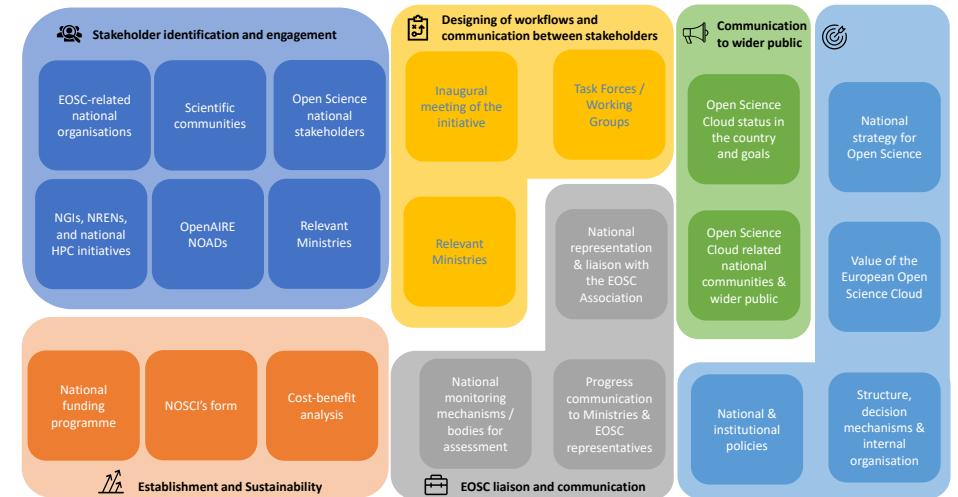
NOSCIs setup toolbox

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

Indicators for the NOSCI's establishment CHECKLIST

Workflows for setting up National Open Science Cloud initiatives CHECKLIST

National Initiatives for Open Science in Europe

Examples of workflows for setting up NOSCIs

Supporting FAIR & OS across research communities
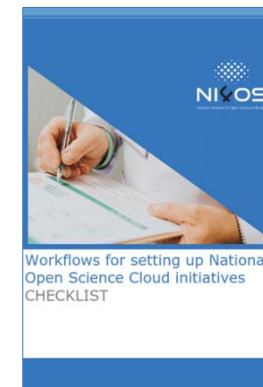
Tools

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

- 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
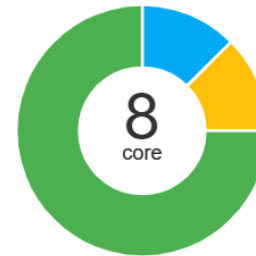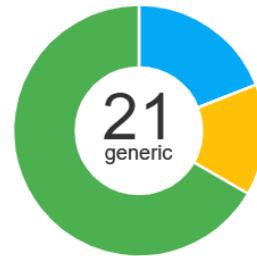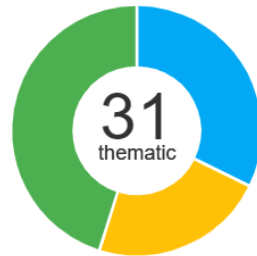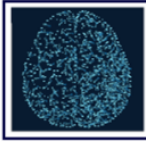
Community

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

https://catalogue.ni4os.eu/

Concluding, but not closing...

Good practices from NI4OS-Europe partners

- Close collaboration with all actors, dissemination of NOSCI work

- Work on harmonizing the views on OS policies within the NOSCI

- Catalogue of national services, single point of access for the country

- Aim at engaging from the beginning and working close with the responsible ministries

- Formalise collaboration choosing the solution that suits NOSCI stakeholders best

Observations from work up to now

- FAIR and Open Science:
  - progress is visible (e.g. national OS plans in several countries), but effort is still need needed to persuade stakeholders to embrace OS
  - Training activities have greatly contributed to it

- Inclusiveness and collaboration within the country
  - Important for the formation, representation and the sustainability
  - Poses challenges during the setting-up phase

- Funding schemes and models
  - Big discussion, as services and initiatives become more mature
  - Provision of and access to services (especially cross-border), procurement
  - What are the suitable organizational models?

- Relation to EOSC
  - EOSC Association is still in the process of defining the relation / collaboration with EOSC projects and national structures
  - NOSCIs can benefit from the participation in the EOSC-A Task Forces (→ knowledge & information sharing, plus updates on governance)
  - Active support to EOSC capacity building

Thank you for your attention!

Questions?

EOSC Association - participation

MEMBERS

N. Macedonia

Greece

Romania

Serbia

Slovenia

OBSERVERS

Armenia

Bosnia Herzegovina

Montenegro

EOSC ASSOCIATION

MANDATED ORGANIZATIONS

Albania

Croatia

Hungary

Romania

Slovenia

*NI4OS-Europe Partner Countries

NI4OS-Europe national dissemination event in North Macedonia, 31st March 2022