

National Initiatives for Open Science in Europe



Developing agile models for
setting up national OSC initiatives

Eleni Toli, Project Director, ATHENA RC
Ilias Papastamatiou, GRNET

NI4OS-Europe target area

- OS networks (OpenAIRE) & NRENs / Service providers (GEANT, EGI, EUDAT)
- Diversity - different levels of maturity of:
 - Open Science policies & initiatives
 - Infrastructure
 - Education policies
- 14 different languages
- Political instability affecting also introduction & implementation of OS policies

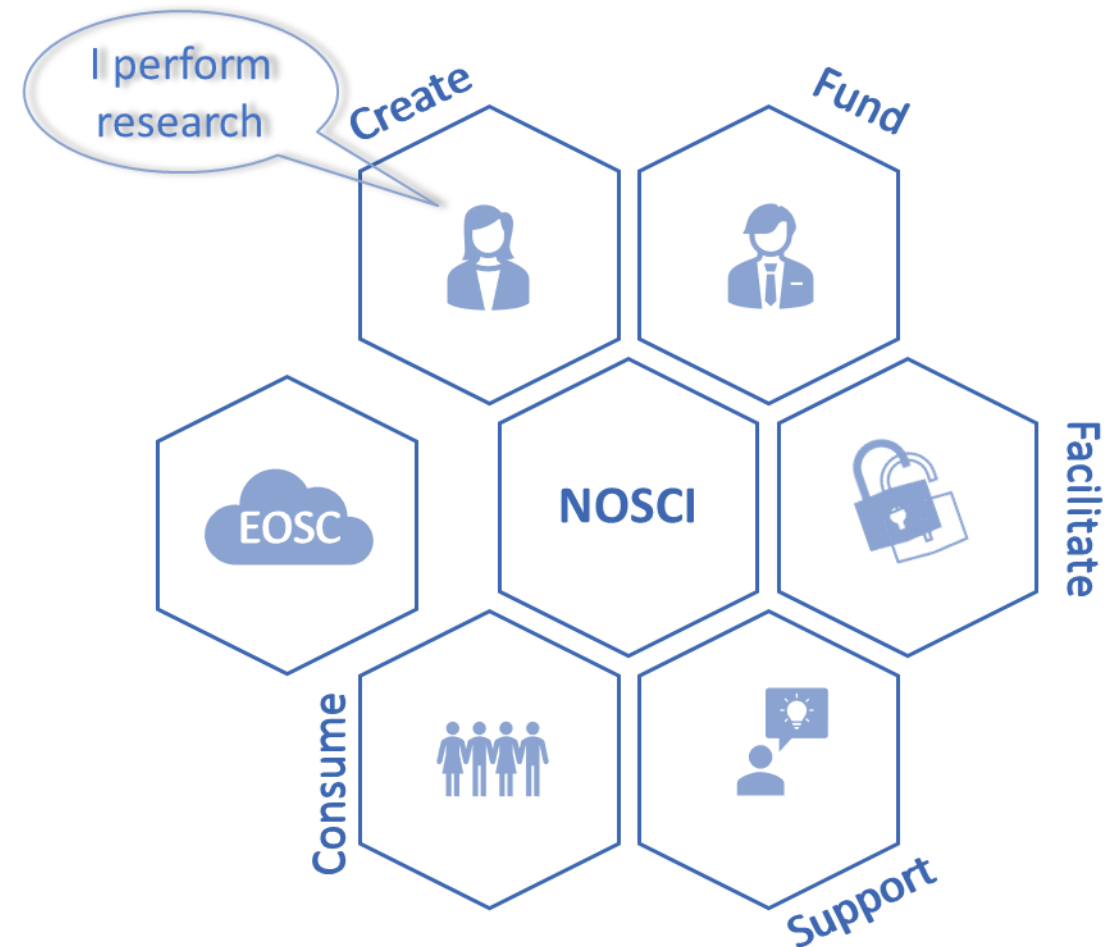
→ **Need for a modular solution that can be further customized**

15 Member States and Associated Countries | 22 Partners



National Open Science Cloud Initiatives

- NOSCI are living national OS ecosystems that support with the EOSC Governance
- NOSCI recognize diversity and OS maturity of countries, and their modelling can be adjusted to fit the needs of each country
- NOSCI keep national stakeholders up to date with EOSC developments and spread awareness



Modelling activity - the blueprint

Indicators

- Assessment of establishment progress
- Monitoring status, progress and performance within MS / AC
- Identification of opportunities and areas of improvement
- Categories: Organisation of NOSCI, Infrastructure & Services, Training & Skills, Sustainability & Collaboration



Workflows

- Modular approach
- Country- or community-specific considerations
- Combination, adaptation, adjustment



Operational aspects

- Governance & Organisation
- Definition of strategy (including approach to research outputs!!)
- Infrastructure & Services
- Sustainability

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



Stakeholder identification and engagement

EOSC-related national organisations

Scientific communities

Open Science national stakeholders

NGIs, NRENS, and national HPC initiatives

OpenAIRE NOADs

Relevant Ministries

National funding programme

NOSCI's form

Cost-benefit analysis



Establishment and Sustainability



Designing of workflows and communication between stakeholders

Inaugural meeting of the initiative

Task Forces / Working Groups

Relevant Ministries

National representation & liaison with the EOSC Association

National monitoring mechanisms / bodies for assessment

Progress communication to Ministries & EOSC representatives



EOSC liaison and communication



Communication to wider public

Open Science Cloud status in the country and goals

Open Science Cloud related national communities & wider public

National & institutional policies



Drafting of National Roadmap

National strategy for Open Science

Value of the European Open Science Cloud

Structure, decision mechanisms & internal organisation

Current status in NI4OS-Europe countries

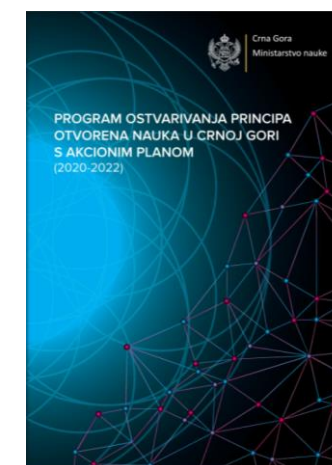
- ✓ Identification of & Engagement with National Stakeholders
- ✓ EOOSC liaison



| Country | Workflows & internal communication | Communication to the wider public | Drafting a national roadmap | Establishment & sustainability |
|--------------------|--|---|---|--------------------------------|
| Greece | WG meetings for MoU & National Plan for Open Science | Webinar to inform synergies | National Plan for Open Science Digital Strategy Gov: https://digitalstrategy.gov.gr/ | Drafted MoU |
| Cyprus | Establishment of a National OS committee | National dissemination event | | Discussions for MoU |
| Bulgaria | Working meetings | National dissemination event OS portal: bpos.bg | OS plan exists for 2021-2025 | MoU in progress |
| Croatia | Working meetings | National dissemination event | | Drafted MoU |
| Hungary | Working meetings | Established the OS website: https://openscience.hu/ | | MoU in progress |
| Romania | Working meetings | Dissemination events on the NOSCI concept & EOOSC | | Drafted MoU |
| Slovenia | A WG for OS policy and action plan established | Slovenian portal for NOSCI & mailing list National dissemination event | Working on OS policy and Action Plan initiated by the Ministry of Education, Science and Sport | Drafted MoU |
| Serbia | Reconstruction of TONus Working meetings | Revived the OS Portal (in Serbian): http://open.ac.rs/ National dissemination event | Preparing Open Science plan | MoU in progress |
| Albania | | Official website: ni4os.rash.al | | Plans for MoU |
| Bosnia-Herzegovina | | National dissemination event Preparation of nauka.link portal | | MoU in progress |
| N. Macedonia | Working meetings | Official website: nosci.mk National dissemination event | Declaration for national OSC (in MK, AL, EN) | Cost-benefit analysis |
| Montenegro | | Events for EOOSC & OS National dissemination event | National OS strategic document exists | MoU in progress |
| Moldova | Working meetings | National dissemination events | NOSCI Establishment Roadmap OS declaration exists since 2018 | Discussions for MoU |
| Armenia | Working meetings | Events for EOOSC & OS | Preparing NOSCI establishment roadmap | MoU in progress |
| Georgia | Working meetings | National dissemination event | | Drafted MoU |

Set-up of National OSC initiatives in SEE in numbers

- 13 partner countries in the process of setting up a NOSCI
- 17 organisations from the region applied to join EOSC Association as members
- 4 organisations from the region applied to join EOSC Association as observers
- 5 NOSCI/OS websites (Albania, N. Macedonia, Bulgaria, Hungary, Serbia)
- 5 MoU drafted (Greece, Slovenia, Croatia, Romania, Georgia)
- 6 MoU under development (Bulgaria, Serbia, Bosnia and Herzegovina, Hungary, Montenegro)
- 2 contributions to national strategic documents (Greece, Montenegro)

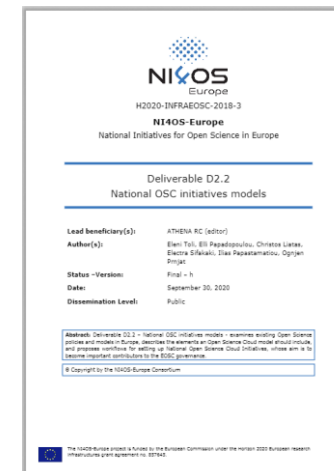


First findings & conclusions

- Inclusiveness at national level
- Bottom-up approach includes a much higher degree of uncertainty
- Relation between NOSCI and National OSC Strategy
 - Strategy can impose the setting up of a NOSCI
 - NOSCI supports the development of Strategy
- Relation between NOSCI and Mandated Organisation
 - NOSCI may not have the legal form to represent → MoU is an option
 - Mandated organization may already have been appointed, before the existence of NOSCI
 - Does this make the setting up of NOSCI obsolete? No! Important for implementation & expansion
 - Country decides not to mandate an organization
 - The existence of NOSCI even more important for supporting inclusion

Thanks!

- National OSC initiatives models:
https://zenodo.org/record/4061801#_YM_YamL7itPb
- Checklist: Indicators for the NOSCI's establishment
https://zenodo.org/record/4646837#_YM_Ya-b7itPY
- Checklist: Workflows for setting up National Open Science Cloud initiatives
https://zenodo.org/record/4662573#_YM_YbIb7itPY
- Examples of workflows for setting up NOSCI's (video)
<https://youtu.be/1zBK6PyMAOI>



<https://ni4os.eu/>