

Inițiative naționale Cloud pentru știința deschisă și interacțiunea lor cu EOSC

Evenimentul Național de Diseminare
NI4OS-Europe în Moldova
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EOSC and National Open Science Cloud Initiatives

The EOSC is a federated ecosystem of research infrastructures, e-infrastructures and services that allows the scientific community to share and process publicly funded research results and data across borders and scientific domains. Research infrastructures, e-infrastructures and service providers play a vital role for the EOSC.

- EOSC initiative supports the operational framework for governance by focusing on coordination between relevant national initiatives, as well as research infrastructures, e-infrastructures and thematic services, and their federation into the EOSC.
- NI4OS-Europe project provides a model for the establishment of National Open Science Cloud Initiatives in South East Europe, which have as an ultimate goal to support the EOSC governance.

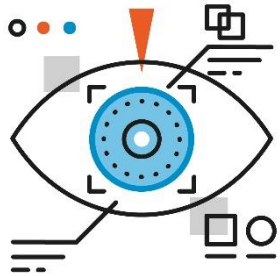
National Open Science Cloud Initiative

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A NOSCI is a coalition of national organisations that have a prominent role and interest in the European Open Science Cloud (EOSC). The main aim of NOSCI is the promotion of synergies at national level, and the optimization/articulation of their participation to European and global challenges in this field of OSC. National Initiatives are envisaged to play a prominent role in Member States and Associated Countries and facilitate EOSC governance.

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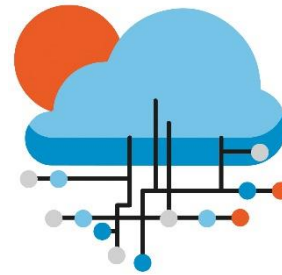
NOSCI Operational aspects - Overview



Governance &
Organization



Definition of
Strategy



Infrastructures
& Services



Sustainability

- **Sets** the framework of co-operation and **guides** activities of NOSCI members
- **Proposes** rules and recommendations in the form of commitments
- **Draws** the needs and agrees on national EOSC implementation
- **Ensures** continuation of NOSCI in the short and long term

Options for Setting up a NOSCI

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

Setting up a NOSCI

Steps for setting up a NOSCI

A. Stakeholders identification and engagement

B. Designing of workflows and communication between stakeholders

C. Communication to wider public

D. Drafting of National Roadmap

E. Establishment and Sustainability

F. EOSC liaison and communication

Setting up a NOSCI - workflow

A. Stakeholders identification & engagement

Identify national organisations that have a prominent role in EOSC.

Make contact with diverse national research scientific communities interested and active in EOSC.

Manage to get consensus towards a common strategy for OSC in the country.

Collaborate with Pan-European initiatives that could provide links with other research and e-infrastructures nationally.

Approach relevant Ministries with the proposed NOSCI MoU agreement, and try to get their support.

Setting up a NOSCI - workflow

B. Designing of workflows and communication between stakeholders

Hold an inaugural meeting of the consortium.

Hold working meetings and divide work in Task Forces / Working Groups.

Involve from the beginning the Ministries, as they might have already established Working Groups or Task Forces for Open Science.

Check whether merging of efforts is feasible.

Setting up a NOSCI - workflow

C. Communication to wider public

Communicate current Open Science Cloud status in the country and inform about the EOSC and its advancements.

Hold an official inauguration event of the NOSCI targeted at wider public, with the support from the Ministries.

D. Drafting of National Roadmap

Agree on a common roadmap for a national strategy for OSC and implementation actions.

Define and adopt in the Strategy any national and institutional level policies.

Reflect in the strategy the value of the EOSC

Use this document to define the structure of the initiative, its decision mechanisms and internal organisation.

Setting up a NOSCI - workflow

E. Establishment & Sustainability

Consider and define the form that NOSCI can have.

Perform a cost-benefit analysis, complementary to the strategy.

Seek national funding programme by proposing a national-level project.

Possible formats of the NOSCI

Legal entity

Public private partnership - cooperation

Appointed by the government / ministry – experts

Collaboration through an MoU

Setting up a NOSCI - workflow

NOSCI MoU

The description of appropriate tools and methods to establish the NOSC initiative.

The collaboration with the relevant European and international initiatives: EOSC Association, EuroHPC, OpenAIRE, PRACE, RDA, EUDAT and EGI.

The decision mechanisms and internal organization.

The initial activities and guiding actions of the agreement.

The development and implementation of the National Open Science Strategy, with reference to the national roadmap.

Setting up a NOSCI - workflow

Draft Articles MoU

1. Purpose of the Agreement and Objectives

2. Activities and guiding actions

3. Decision mechanisms and internal organization aspects

4. Entry into force, duration, changes and withdrawal

5. Public information and public relations

Setting up a NOSCI - workflow

F. EOSC liaison & communication

Communicate progress to Ministries and EOSC representatives.

Define national representation and liaison with the EOSC Association.

Link to national monitoring mechanisms / bodies.



Stakeholder identification and engagement

EOSC-related national organisations

Scientific communities

Open Science national stakeholders

NGIs, NRENs, and national HPC initiatives

OpenAIRE NOADs

Relevant Ministries



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



Establishment and Sustainability

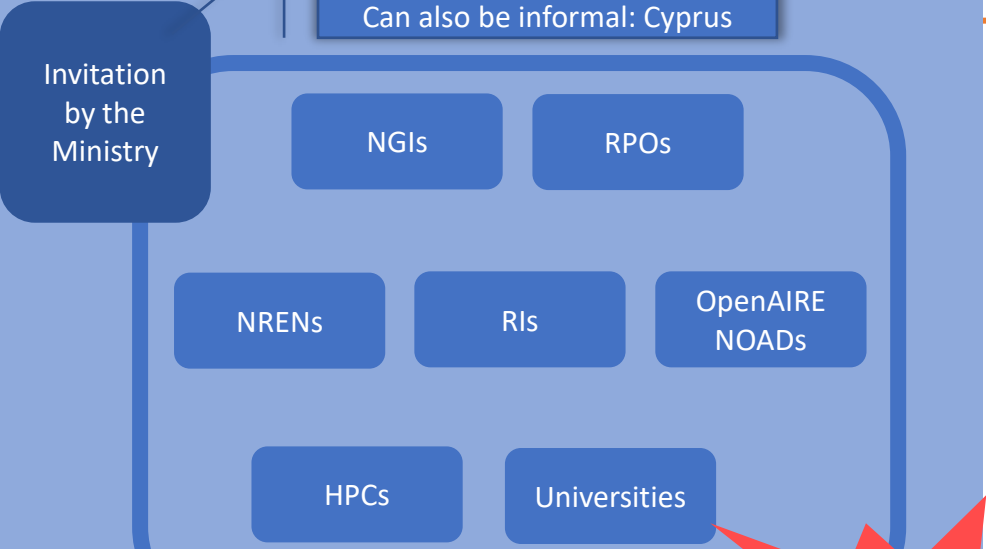
National funding programme

NOSCI's form

Cost-benefit analysis

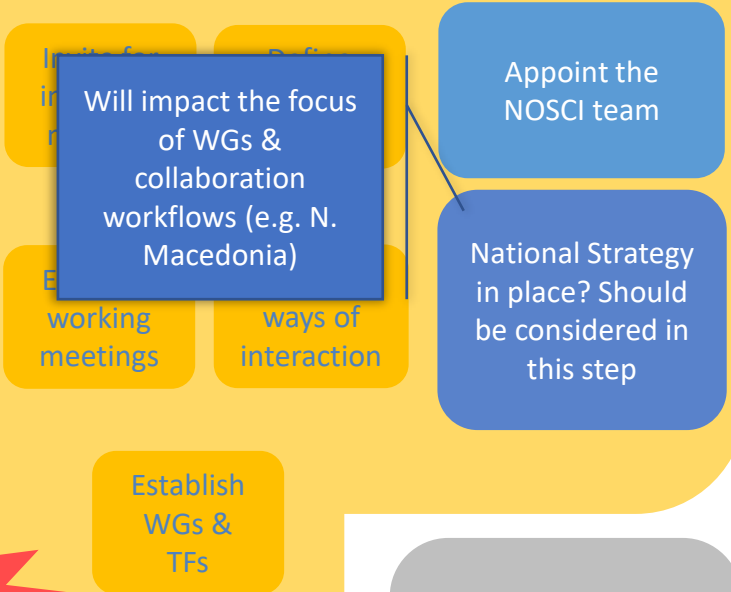
1 Stakeholder identification and engagement

Usually, a formal invitation:
Albania, Montenegro, Serbia...
Can also be informal: Cyprus



2 Designing of workflows and communication between stakeholders

Will impact the focus of WGs & collaboration workflows (e.g. N. Macedonia)



3 Communication to wider public

Exploit also any international – European collaborations (e.g. Armenia)



Drafting of National Roadmap

Mandate NOSCI to produce a National OSC Strategy

Reflect in the Strategy the value of the EOSC

Adopt national & institutional policies in the strategy

Ensure inclusiveness



4 Establishment and Sustainability

NOSCI form will be probably defined by the ministry

Establishment of NOSCI

Secure national funding programme

Perform a cost-benefit analysis



EOSC liaison and communication

Define national representation & liaison with the EOSC Association

Indicators & Monitoring: national & EOSC-related

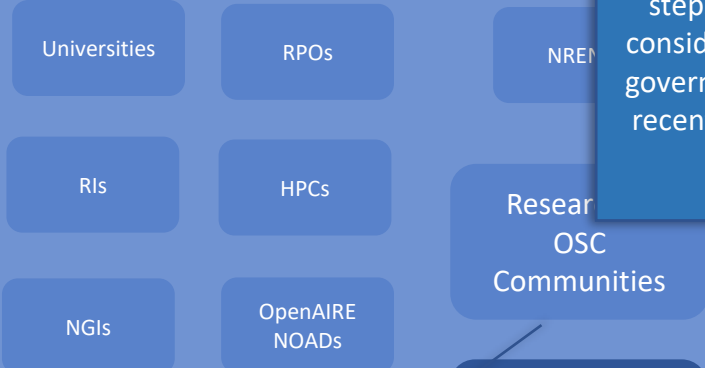
Communicate



1



Stakeholder identification and



Important to plan these steps well, especially considering complicated governance structures & recent history in Balkan countries

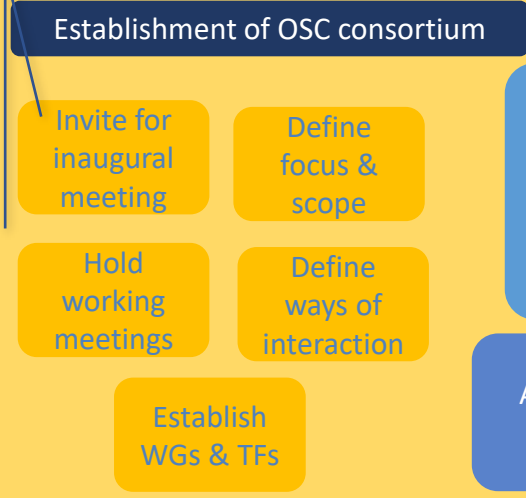
Initiative taken by OSC actors in the country: e.g. Croatia, Georgia, Greece, Bosnia-Herzegovina, Bulgaria, Romania

Ministry

2



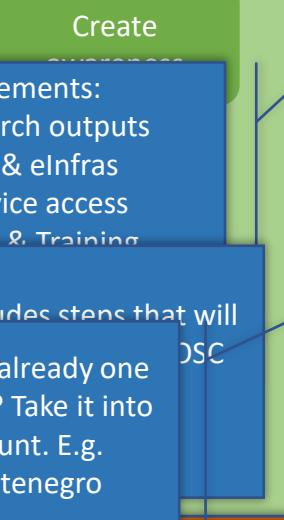
Designing of workflows and communication between stakeholders



Bottom-up



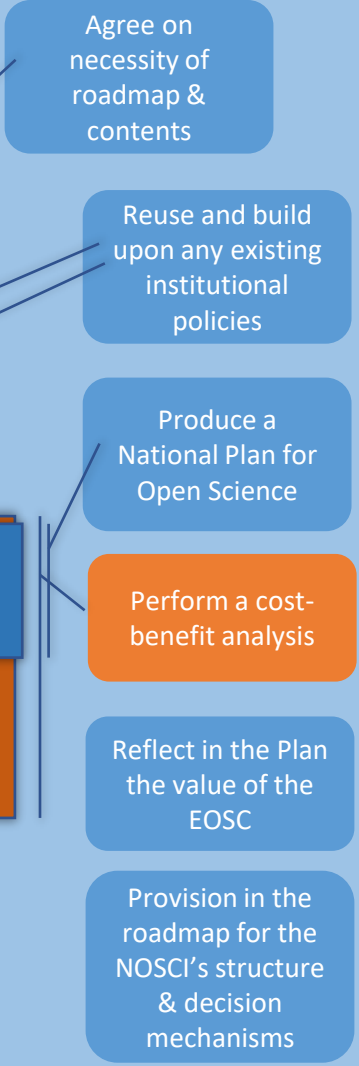
Communication to wider public



3



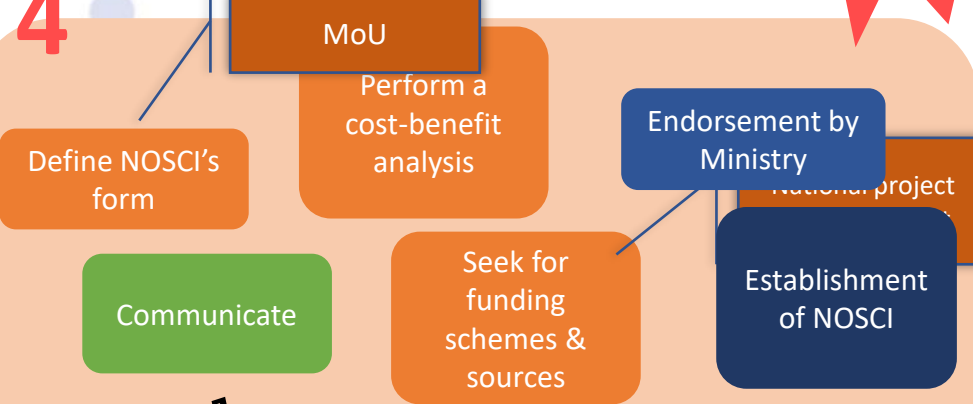
Drafting of National Roadmap



4



Establishment and Sustainability



EOSC liaison and communication



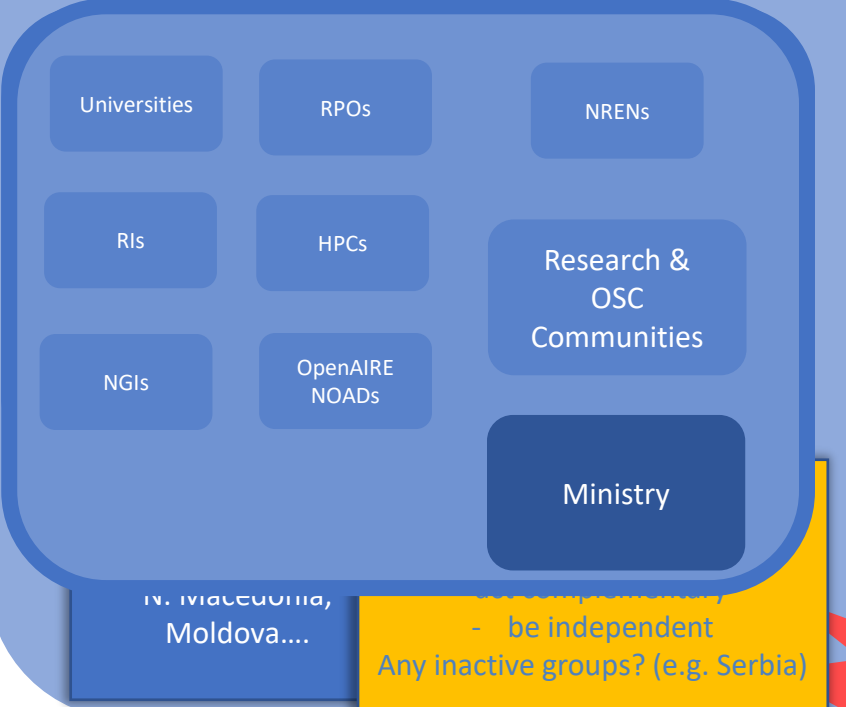
Possible forms: MoU, Legal entity, PPP

Rely on & reuse institutional policies. Make proposal to decision makers about NOSCI's form

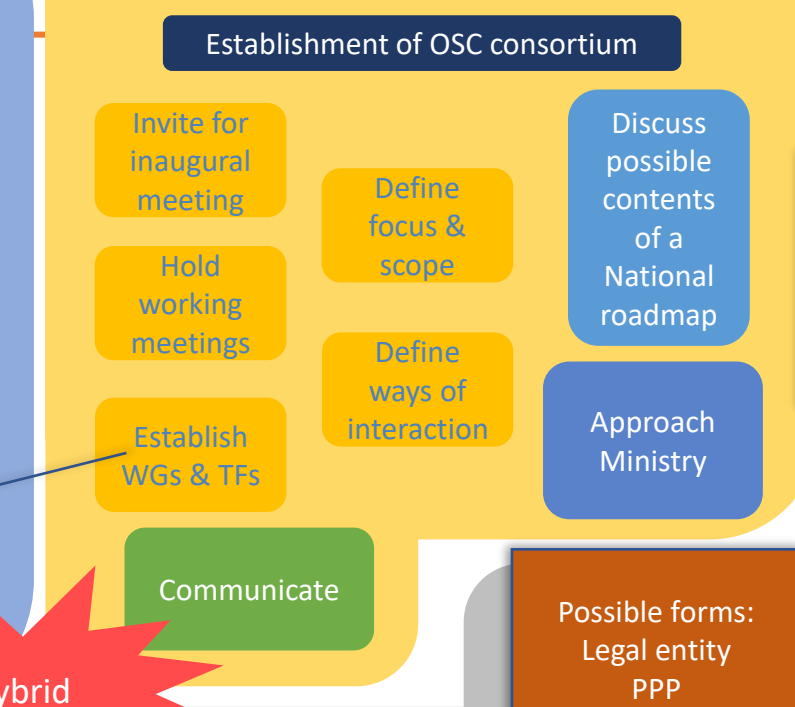
WGs & TFs

Communicate

1 Stakeholder identification and engagement



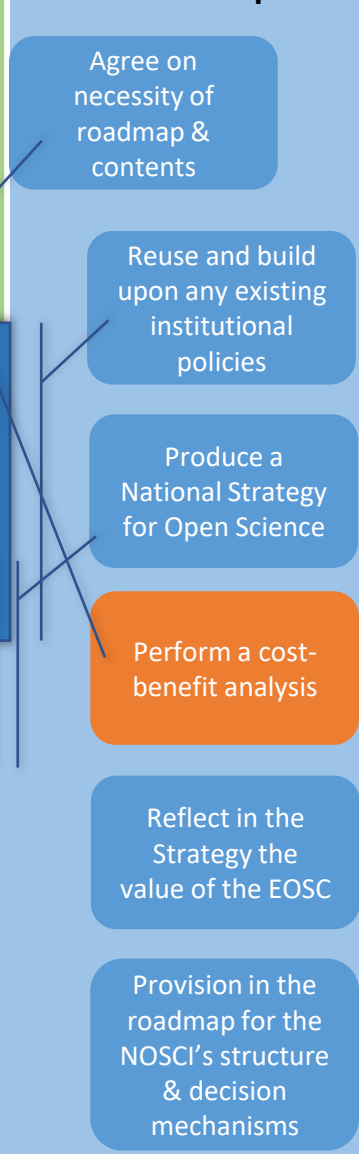
2 Designing of workflows and communication between stakeholders



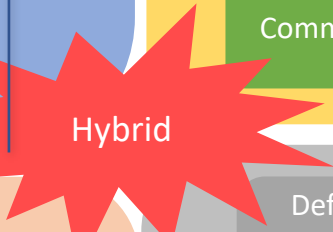
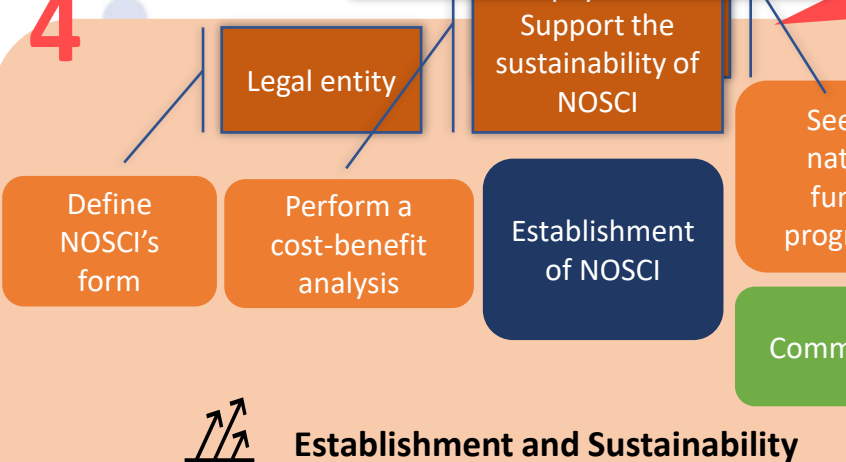
3 Communication to wider public



Drafting of National Roadmap



4 Establishment and Sustainability



EOSC liaison and communication



Important to consider

- 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
 - The NI4OS-Europe mission: the official representation in the EOSC Association goes through the NOSCI
 - NOSCI may not have the legal form to represent → MoU 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 and collaboration with EOSC

Conclusion

The proposed steps are considered as important elements that can **be combined, adapted and adjusted.**

Monitoring indicators at early stages will help the assessment of the establishment status of the NOSCI

An **efficient way of starting the establishment of a NOSCI** is through an **MoU.**

Thanks!



<https://ni4os.eu/>



National Initiatives for Open Science in Europe – H2020 Research and Innovation action – contract no. 857645

Evenimentul Național de Diseminare NI4OS-Europe în Moldova, 22 aprilie 2021, online