

# Supporting EOSC on regional level: National Open Science Cloud Initiatives and policy support

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## NI4OS-Europe meets the EOSC GB country delegates

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NI4OS-Europe aims to be a **core contributor to EOSC service portfolio**, commit to **EOSC governance** and ensure **inclusiveness** on the European level for **enabling global Open Science**.

# Mission & Contribution to EOSC federation



**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



**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 (OSC) Initiatives & enabling them to support the overall EOSC governance and the related EOSC coordination structure
- **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
- **Develop** technical, organizational and legal guidelines, tools & mechanisms, to support implementation of ORDM and FAIR
- **Ensure** the engagement of the targeted communities and validate the onboarding solutions

# WP2 Objectives

- Perform a **stakeholder analysis**, taking into consideration their role, needs and requirements.
- Map the existing **landscape at the national level** on OSC initiatives, policies and topics (procurement practices, infrastructures, services, FAIR data implementation, data privacy, etc.).
- **Set up national OSC initiatives** to bring all relevant stakeholders to the table to support the building of the pan-European EOSC governance scheme.
- Provide **support and interface** to other EOSC-relevant bodies
- **Reduce fragmentation** and promote federation on national level
- Pave the way for **on-boarding** of national services to EOSC.

# National Open Science Cloud initiatives in NI4OS-Europe

## The set up of national EOSC initiatives as a key activity of NI4OS-Europe

- Provide the interface for establishing a two-way communication with the EOSC
- Contribute to EOSC Governance and EOSC sustainability plans
- Reduce fragmentation and promote EOSC uptake through federation at national level
- Streamline advice to policy making and funding authorities concerning the EOSC
- Achieve a sustainable support to EOSC governance
- Pilot and establish future (co)funding strategies and business/usage models

# The process

## Landscaping

- The most extensive attempt to capture OS in the region
- Survey in 22 NI4OS-Europe partner countries, for 3 months at the end of 2019
- More than 1000 stakeholders approached, 575 responses received (57% response rate)

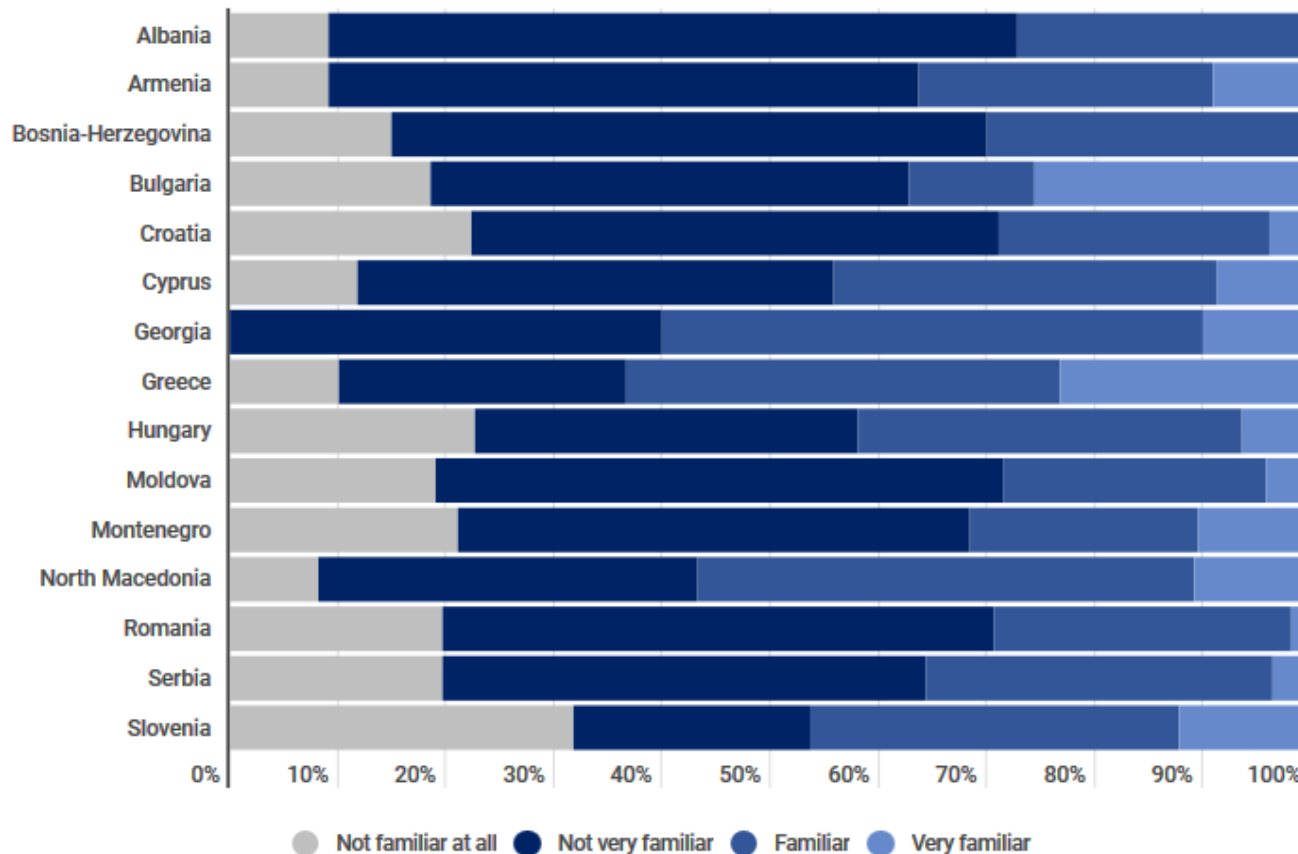
## Modelling

- Drafting of a Blueprint for Open Science in SEE
- Assisting the drafting of national OS plans
- Relying on existing expertise and knowledge (OpenAIRE NOADs, National Grid Initiatives)

## Setting up

- 15 Letters of Support by all science-related ministries in the region
- 15 national OSC initiatives in partners' countries

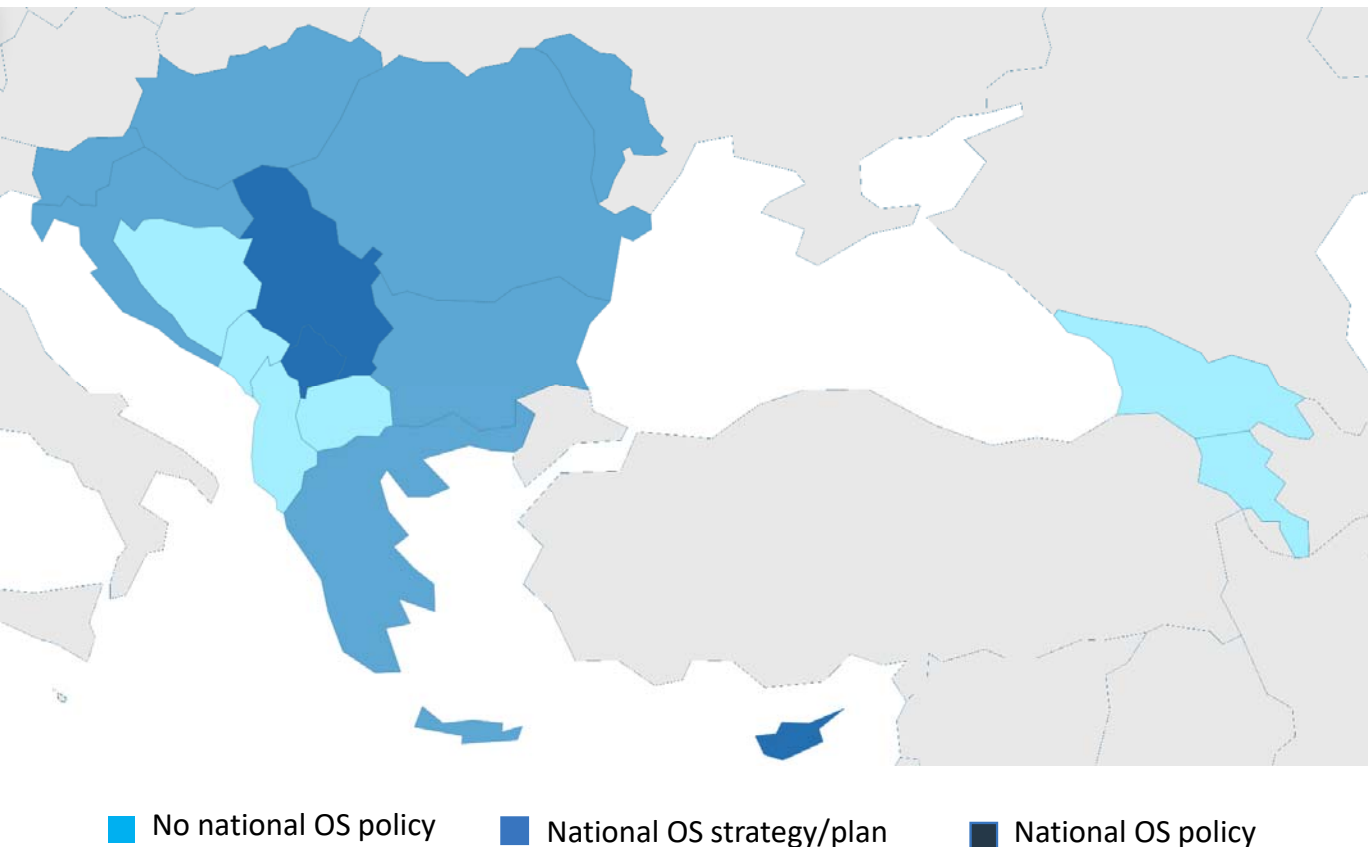
# Landscaping: Familiarity with EOOSC



Our starting point and work assumptions

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

# Landscaping: Current state of National Open Science policies

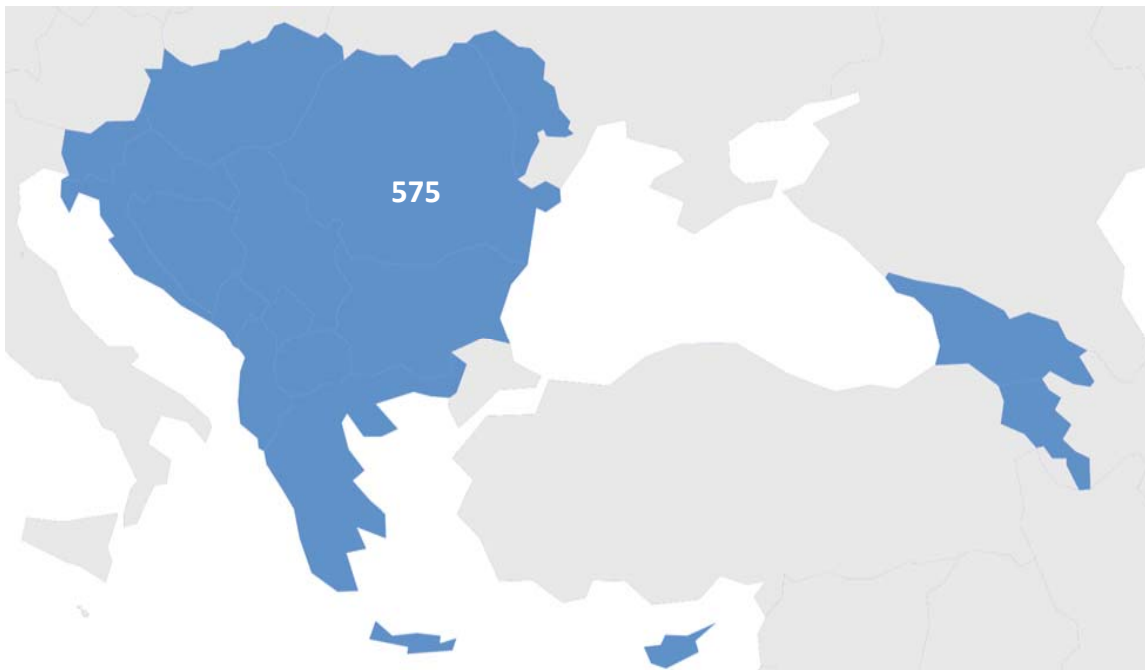


3 different levels in the region:

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



# Landscape: FAIR-available results



Number of stakeholders in partners' country

- First set of data deposited in Zenodo under an open license:  
[10.5281/zenodo.3722929](https://doi.org/10.5281/zenodo.3722929)
- Stakeholder data are visualised with the help of an online map [at NI4OS portal](#)

# Modelling: process

The role of models in OS

Models and EOSC

Existing OS models across Europe

OpenAIRE policy checklists

OpenAIRE

National Grid Initiatives

Consultations with partners

Related NI4OS-Europe survey results

The Blueprint for an OS model

Generic model

Country-specific iterations

# Modelling: important aspects

- Understand the exact state of play of OS in each country
- Categorise maturity levels: under formulation, early, mature
- Embed existing organizational & governance models, if appropriate
- Engage national stakeholders early on
- Alignment to relevant efforts in ERA, not all countries being part of it
- Identify collaborators and potential synergies
  - Formal collaborations (at ministries level)
  - As part of the EOSC governance
  - Research collaborations (e.g. e-Infras)

# 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

# Setting up: the Greek Model for Open Science

- Bottom-up effort which resulted in a strategy paper about Open Science in Greece, with the aim to trigger the establishment of a National Open Science Strategy in Greece
- Goals, policies, commitments and actions for the adoption of Open Science in Greece and the inclusive national participation in the European Open Science Cloud (EOSC)
  - a. Open Access to Scientific Publications
  - b. Research Data Management and Sharing
  - c. Research Software Development and Management
  - d. Reinforcing the National Research Ecosystem
  - e. Open Science through National Research Infrastructures and Digital Services for Research
  - f. Integration or Alignment with the European Open Science and Innovation Ecosystem

# Setting up: important aspects

- Inclusiveness and collaboration within the country
- Timeline: relation to the EOSC roadmap
- Business models: procurement, funding, service acquisition
- Funding schemes and models
- Sustainability (services, funding, organizational)
- Balance: country's priorities & needs <-> EOSC coordinated efforts

# Where do we stand now: project-intern

## Three processes in parallel

- Online questionnaire for NI4OS-Europe partners and individual discussions. Important to gather:
  - accurate understanding of current status
  - Partners' views and "feeling" of trends
- Meta-analysis of survey results



**Blueprint for OSC models**

Consultations with partners

Related NI4OS-Europe survey results

The Blueprint for an OS model

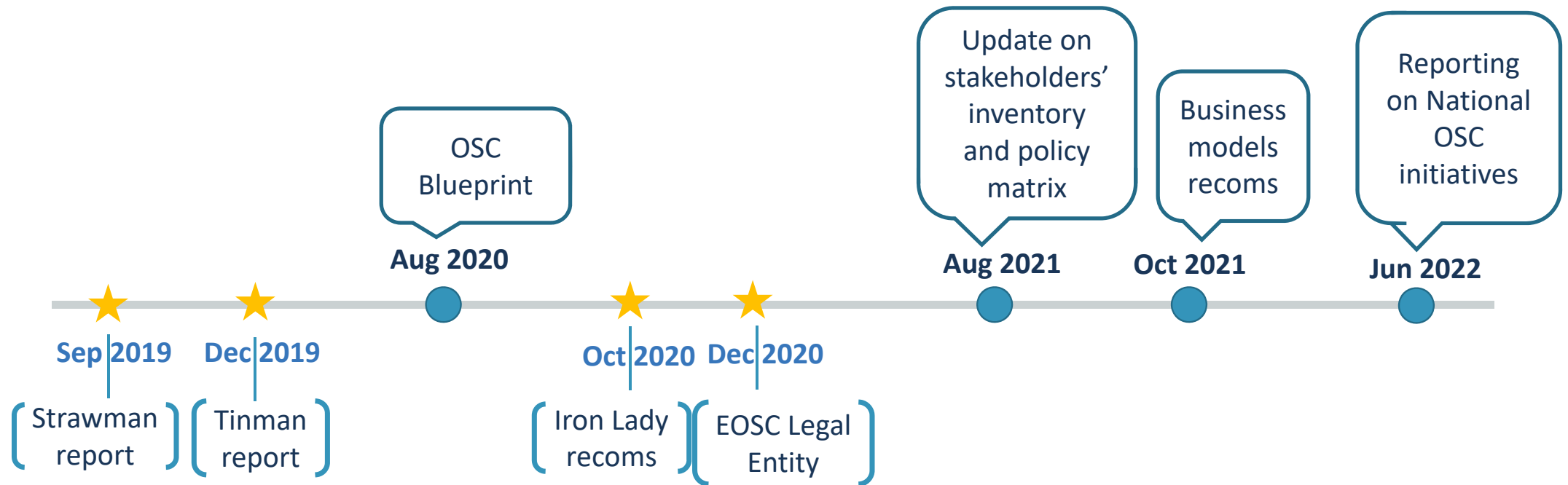
- Active support to EOSC capacity building
  - Training
  - EOSC Promoters
  - Translation officers

**Ongoing support**

- Development of recommendations related to funding schemes, procurement, funding, service acquisition
- Sustainability (services, funding, organizational)

**EOSC-ready Business models**

# Where do we stand now: NI4OS-Europe & EOOSC timeline





# Setting up – next steps: EOSC readiness indicators

- Ongoing work
  - Landscape TF
  - Joint session @EOSChubWeek 2020
- Monitoring of “EOSC-progress” in each member state
  - Yes or no
  - Indicators or alternative methods
- Definition of responsibilities: drafting, tracking, accessing
- Measurement categories:
  - Working Groups level (Architecture, Infrastructures, Organisations & Governance, Policies, Training)
  - More detailed categorisation
- Access to and use of evaluation results

THANK YOU!

