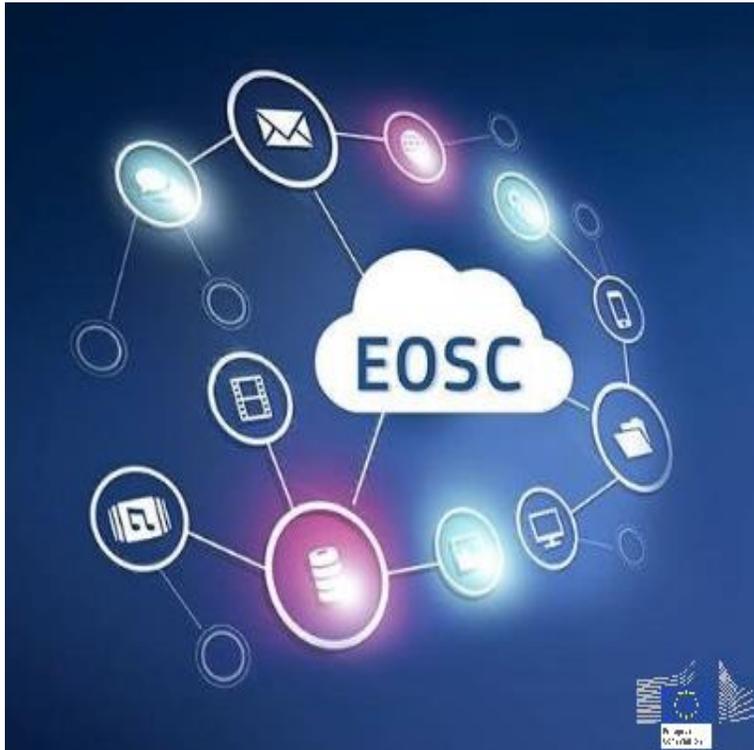# European Open Science Cloud
&
National Initiatives for Open Science in EUrope

Dragoș Cătălin BARBU
UEFISCDI – Romanian OS Strategy
Bucharest, 10 March 2020

EUROPEAN OPEN SCIENCE CLOUD

EOSC - Vision

The European Open Science Cloud (EOSC) initiative has been proposed in 2016 by the European Commission as part of the European Cloud Initiative to build a competitive data and knowledge economy in Europe

- 2016-2017 - extensive consultation with scientific and institutional stakeholders

- 26 October 2017 - engagement process was initiated with a first EOSC Summit – EOSC Declaration

- March 2018 - European Commission – EOSC implementation roadmap

EOSC

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EOSC – Action Lines

Architecture	Architecture of the federated infrastructures as the solution to the current fragmentation in research data infrastructures which are insufficiently interoperable.
Data	FAIR data management and tools. A common data language to ensure data stewardship across borders/disciplines based on FAIR principles.
Services	Available services from a user perspective. A rich environment offering a wide range of services covering the needs of the users.
Access & Interface	Mechanisms/interfaces for accessing EOSC. A simple way to deal with open data obligations, or to access research data across different disciplines.
Rules	Rules of participation for different EOSC actors. An opportunity to comply with existing legal and technical frameworks and increase legal certainty & trust.
Governance	Governance of the EOSC, aiming at ensuring EU leadership in data-driven science but requiring new governance frameworks.

EOSC implementation roadmap describes six action lines for the implementation with specific examples and related milestones

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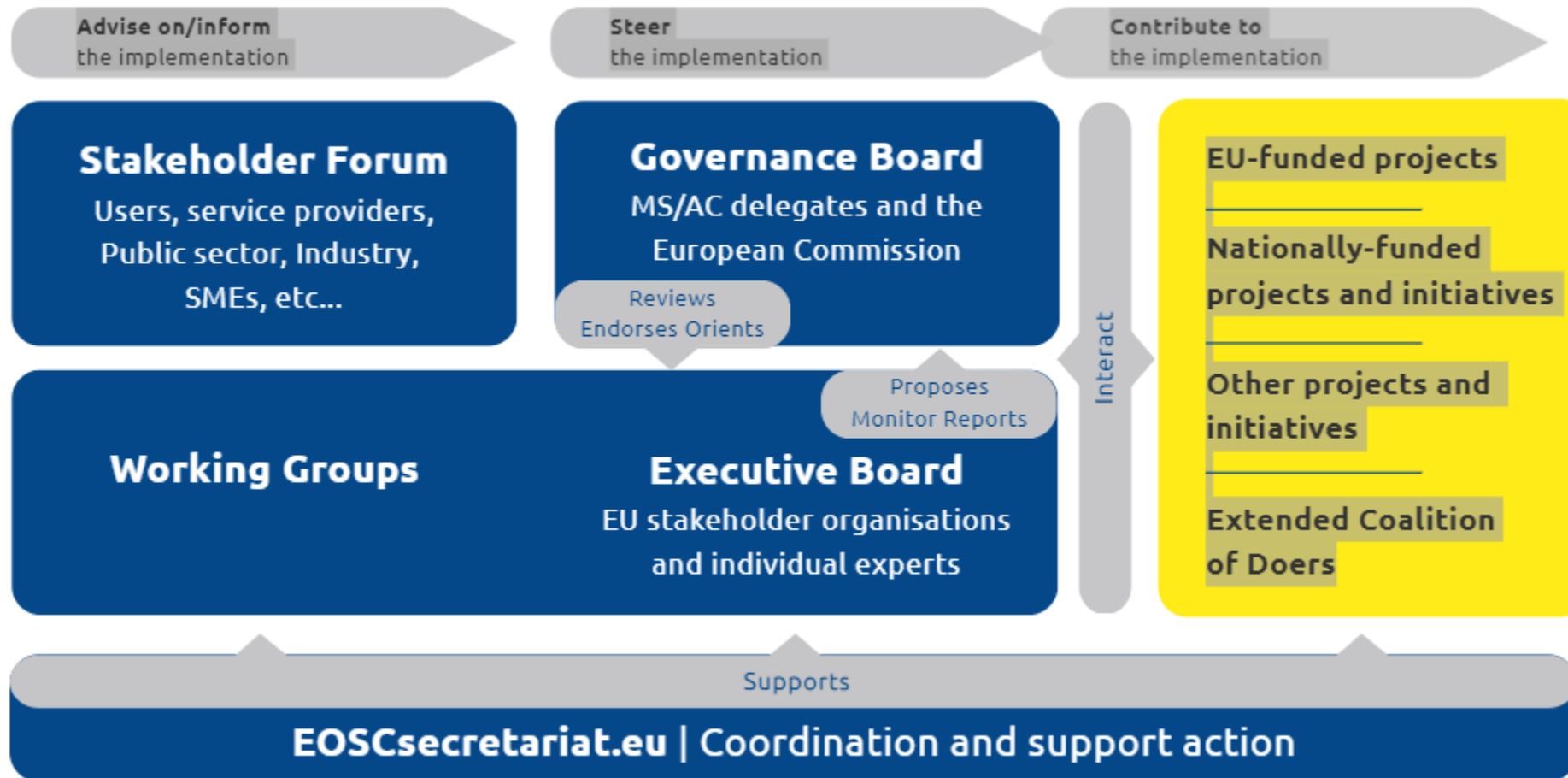
EOSC – First stage

- 1st stage of EOSC: 2018-2020

 - The European Commission is providing financial support to implement the EOSC by means of projects under the EU Framework Programme for Research and Innovation (Horizon 2020) - ca. €600 million

- Current EOSC governance tasks
    - steer initial implementation
    - involve all R&I stakeholders
    - transition to 2nd stage 2020+
- Activities Update
    - 30+ active EOSC projects
    - EOSC SIP published
    - EOSC Workplan drafted
    - EOSC Concertation Days
    - EOSC @ RDA Event – Oct.
    - EOSC Symposium – Nov.

EOSCsecretariat

EUROPEAN OPEN SCIENCE CLOUD

The EOSC Governance 2019-2020

Boundary Conditions for EOSC

- Core funding for EOSC from EU
- Inclusiveness of all stakeholders
- Core follows subsidiarity principle
- Providers with a shared purpose
- Countries have different structures
- Self-inclusivity as much as possible
- Hardware agnostic infrastructure
- Focus on FAIR data and services

EUROPEAN OPEN SCIENCE CLOUD

NI4OS Mission

National **I**nitiatives for **O**pen **S**cience in Europe – **NI4OS Europe**, aims to be a core contributor to the European Open Science Cloud (EOSC) service portfolio, commit to EOSC governance and ensure inclusiveness on the European level for enabling global Open Science
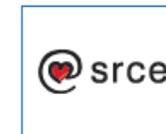
Lines of action
- Support the development and inclusion of the national Open Science Cloud initiatives in 15 Member States and Associated Countries in the EOSC governance
- Instill within the community the EOSC philosophy and FAIR principles for data Findability, Accessibility, Interoperability and Reusability
- Provide technical and policy support for on-boarding of service providers into EOSC, including generic services (compute, data storage, data management), thematic services, repositories and data sets
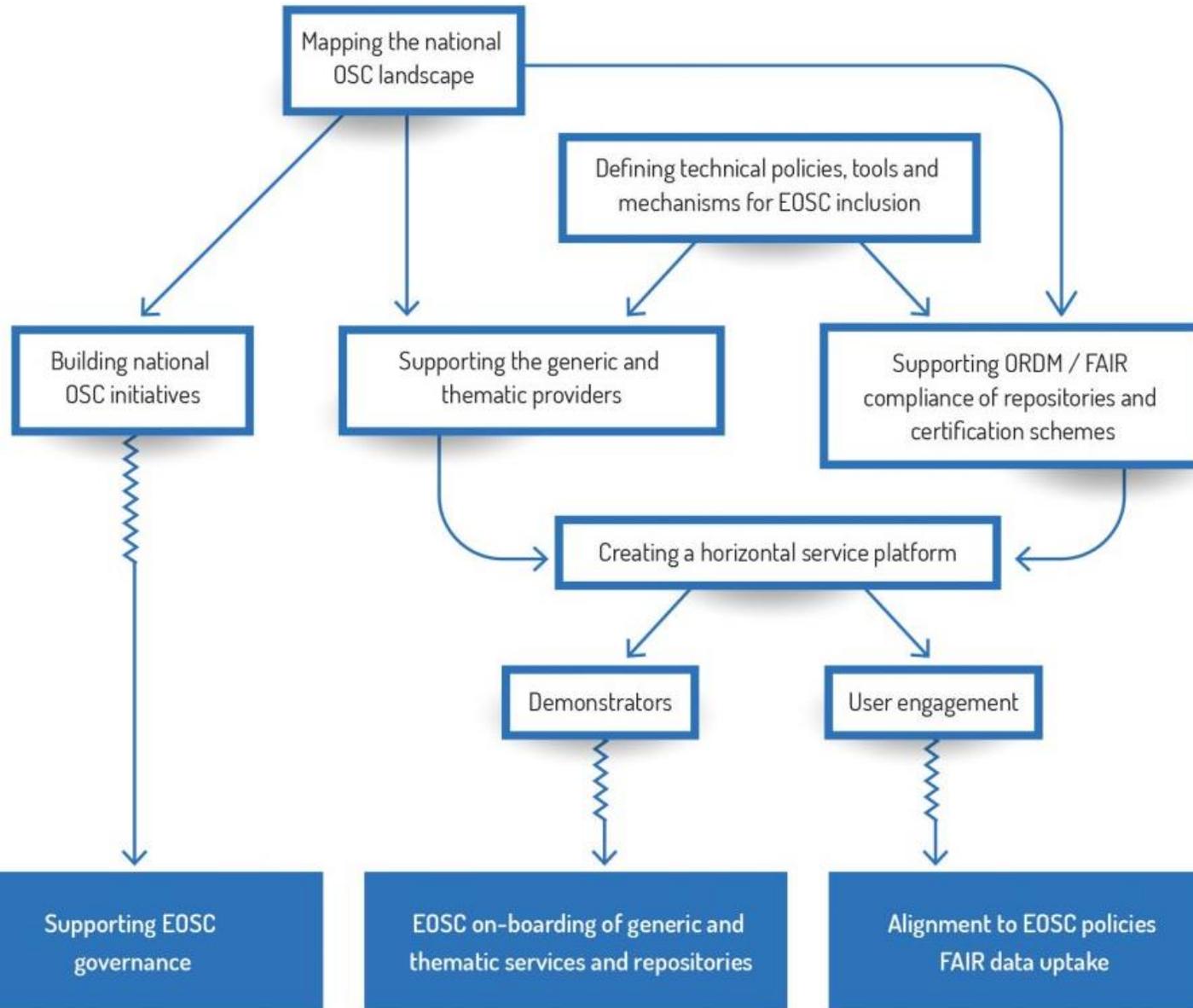
NI4OS Partnership

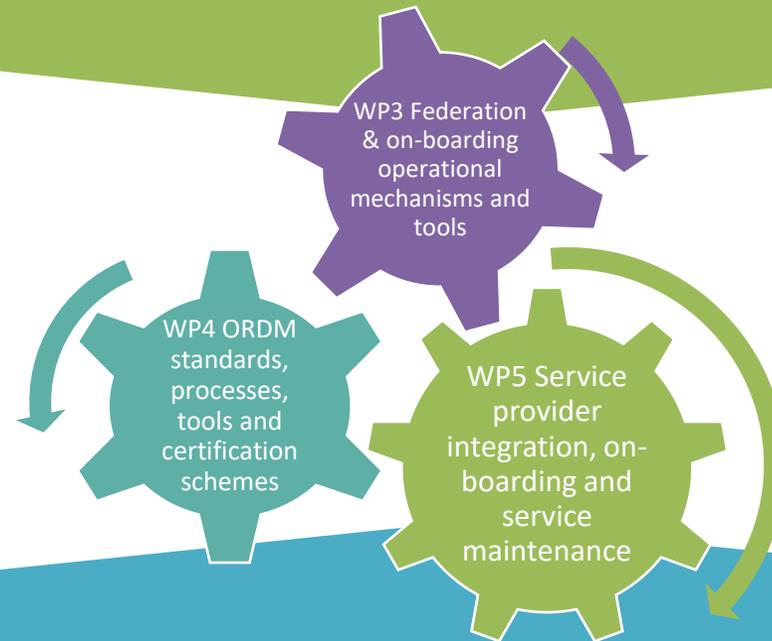| 1	Ethniko Diktyo Erevnas Technologias AE	GRNET	Greece
2	ATHINA-Erevnitiko Kentro Kainotomias stis Technologies tis Pliroforias, ton Epikoinonion kai tis Gnosis	ATHENA	Greece
3	The Cyprus Institute	CYI	Cyprus
4	University of Cyprus	UCY	Cyprus
5	Institute of Information and Communication Technologies	IICT	Bulgaria
6	Sveuciliste u Zagreb - Sveucilisni Racunski Centar	SRCE	Croatia
7	Ruđer Bošković Institute	RBI	Croatia
8	Kormanyzati Informatikai Fejlesztesi Ugynokseg	KIFU	Hungary
9	Debreceni Egyetem	UD	Hungary
10	Institutul National de Cercerate-Dezvoltare in Informatica – ICI Bucuresti	ICI	Romania
11	Unitatea Executiva pentru Finantarea Invatamantului Superior, a Cercetarii, Dezvoltarii si Inovarii	UEFISCDI	Romania
12	Akademska raziskovalna mreza Slovenije	ARNES	Slovenia
13	Univerza v Mariboru, Univerzitetna knjiznica Maribor	UMUKM	Slovenia
14	Institut za fiziku	IPB	Serbia
15	Univerzitet u Beogradu	UOB	Serbia
16	Qendra Nderuniversitare e Sherbimeve Dhe Rrjetit Telematik	RASH	Albania
17	Univerzitet u Banjoj Luci	UNI BL	Bosnia-Herzegovina
18	Ss. Cyril and Methodius University in Skopje	UKIM	Northern Macedonia
19	Javna Ustanova Univerzitet Crne Gore Podgorica	UOM	Montenegro
20	Research and Educational Networking Association of Moldova	RENAM	Republic of Moldova
21	Institute for Informatics and Automation of the Academy of Sciences of Armenia	IIAP	Armenia
22	Georgian Research and Educational Networking Association	GRENA	Georgia

NI4OS Methodolgy

NI4OS-Europe will collaborate with the other EOSC-related initiatives to contribute to the common EOSC platform including a set of policies, rules and principles for managing services and research data across the EOSC ecosystem.

NI4OS Organization

WP1 Management

WP2 EOSC national initiatives and policy support

WP3 Federation & on-boarding operational mechanisms and tools

WP4 ORDM standards, processes, tools and certification schemes

WP5 Service provider integration, on-boarding and service maintenance

WP6 User engagement, training and demonstrators

WP7 Communication, marketing, sustainability and innovation

Thank you!

EOSC Secretariat - https://www.eoscsecretariat.eu/
EOSC Portal - https://eosc-portal.eu/

NI4OS web - https://ni4os.eu/
- https://www.facebook.com/NI4OS/