European Open Science Cloud – EOSC
Current status and future activities

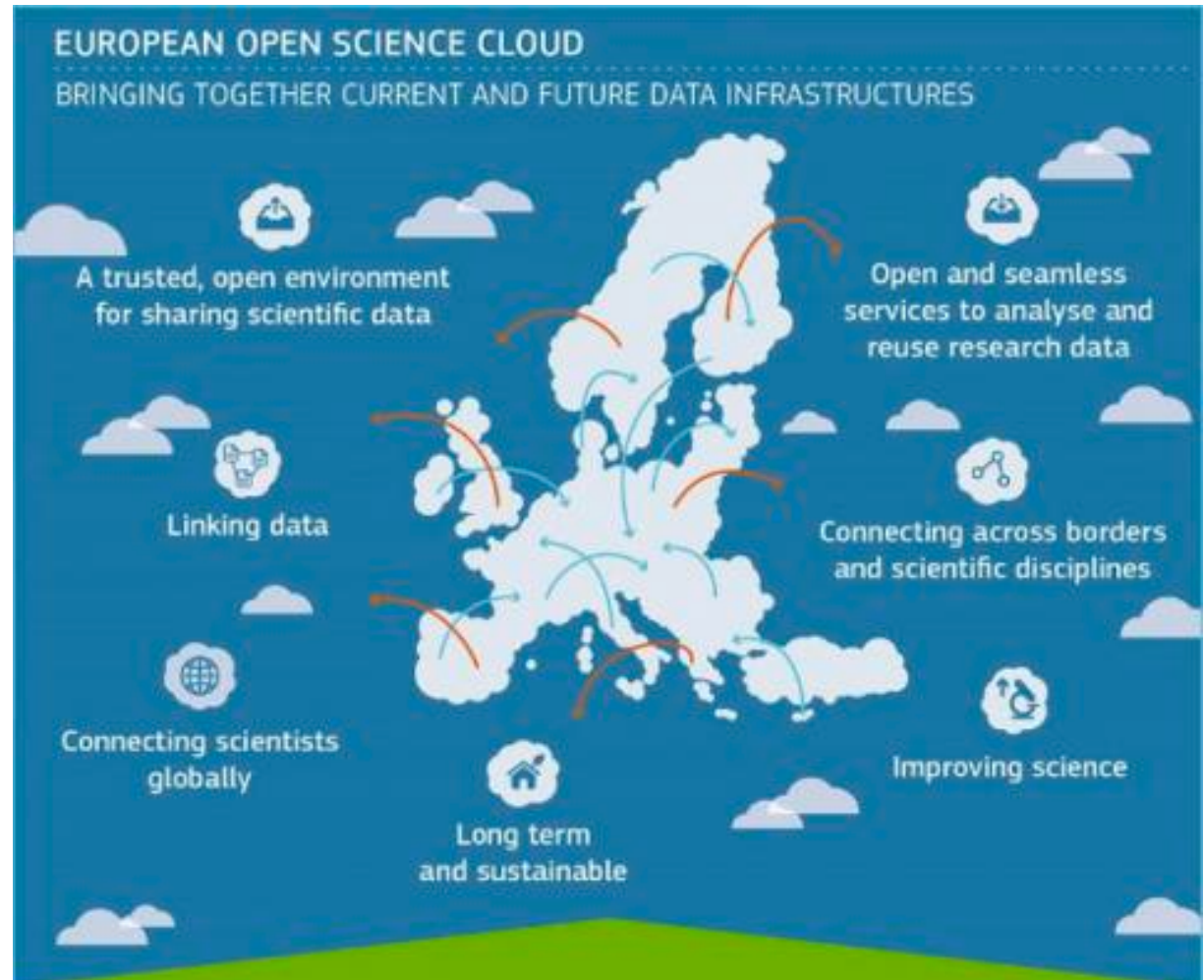National dissemination event, 31 March 2022

Prof. Sonja Filiposka

Faculty of Computer Science and Engineering,
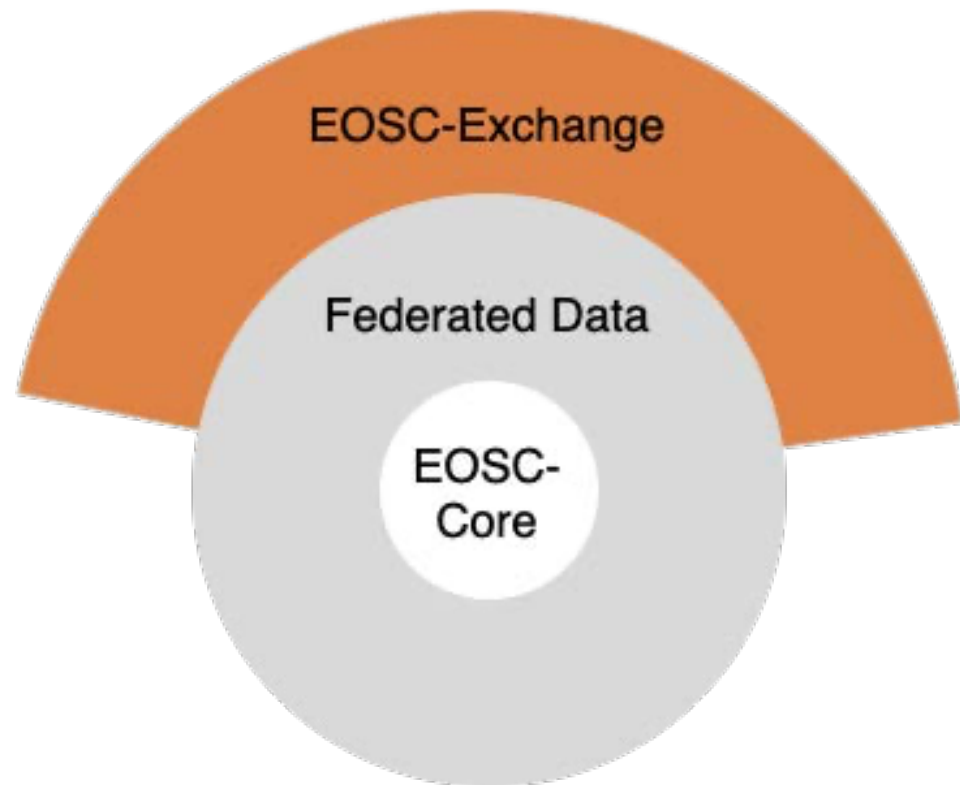Ss. Cyril and Methodius University, North Macedonia

EOSC

- ❑ European Open Science Cloud
- ❑ Aims to build infrastructures to provide seamless access to FAIR data and interoperable services for the scientific community

EUROPEAN OPEN SCIENCE CLOUD
BRINGING TOGETHER CURRENT AND FUTURE DATA INFRASTRUCTURES

A trusted, open environment for sharing scientific data

Open and seamless services to analyse and reuse research data

Linking data

Connecting across borders and scientific disciplines

Connecting scientists globally

Improving science

Long term and sustainable

EOSC

❑ Part of the European Cloud Initiative

    ❑ 'Building a competitive data and knowledge economy in Europe'

❑ Aims to provide European science, industry and public authorities with:

    ❑ a world-class data infrastructure to store and manage data;

    ❑ high-speed connectivity to transport data;

    ❑ powerful high performance computers to process data.

❑ Horizon 2020, for the 2014-2020 period, €600 million was allocated to support EOSC

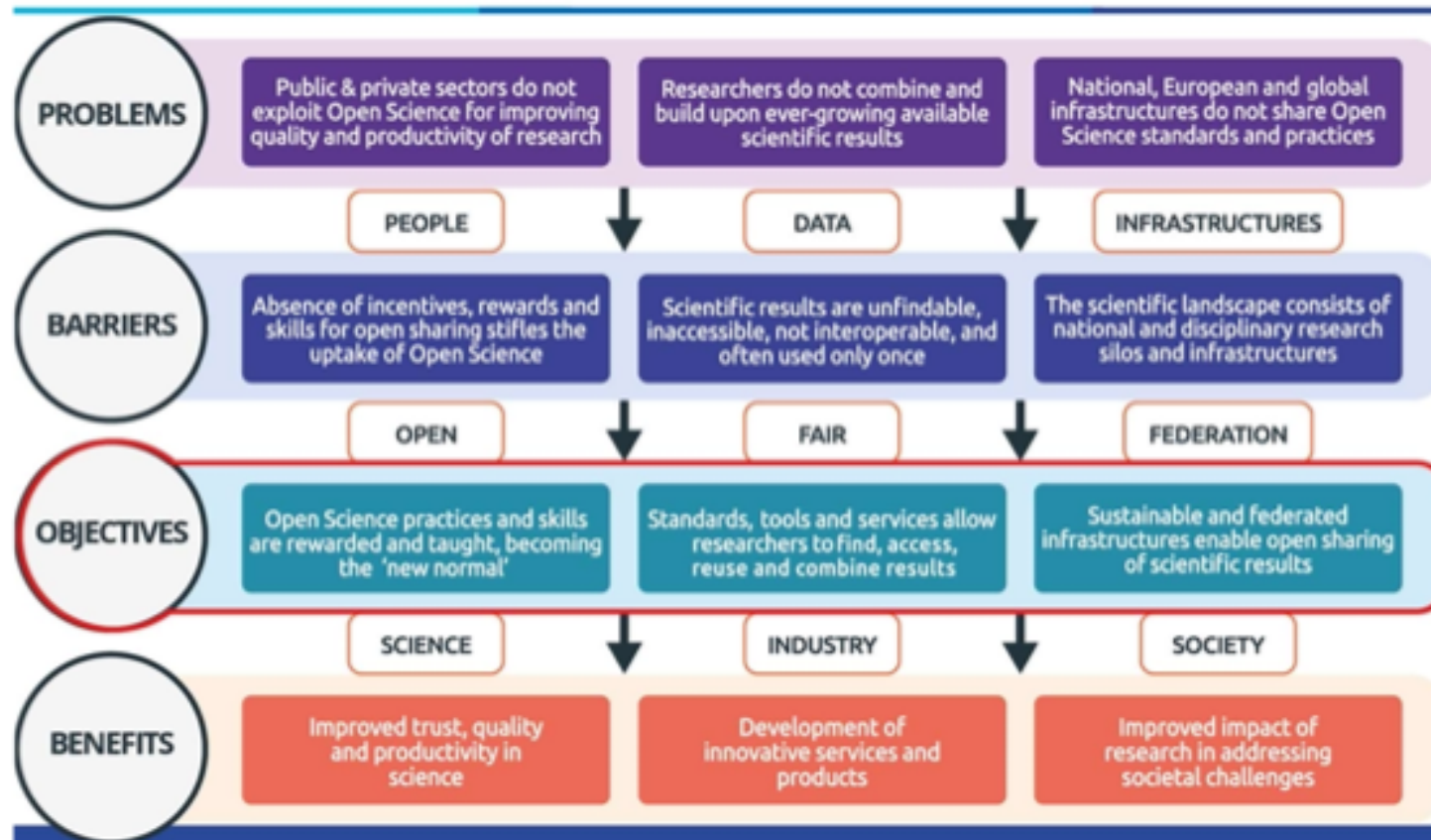❑ Support for EOSC continues from the Horizon Europe programme

EOSC Platform

- ❑ A web of FAIR data and services

- ❑ Federation of eInfra and Research Infrastructures (RIs)

- ❑ Environment in which data can be brought together with services to perform analyses and address societal challenges
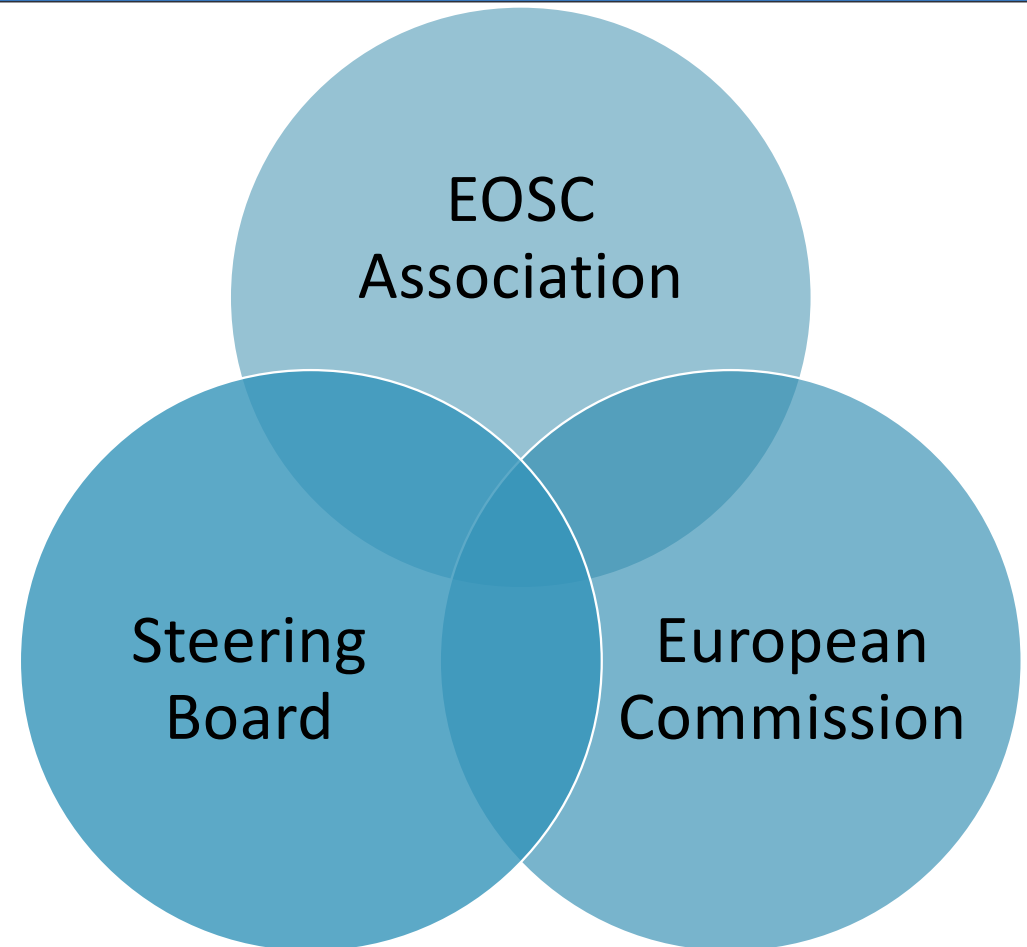
EOSC-Exchange

Federated Data

EOSC-Core

EOSC Strategic Research Implementation Agenda

European Open Science Cloud Objectives Tree

EOSC Governance model 2021-27

- Three-party collaboration
- Partnership MOU between EC and EOSC Association
- Representation of Member States & Associated Countries involved in Horizon Europe in Steering Board
- EOSC Association represents stakeholder community at large via its membership

EOSC Association

Steering Board

European Commission

Core functions for ESOC Association 2020+

Develop and govern the federating core

Manage the compliance framework

Manage trusted certification
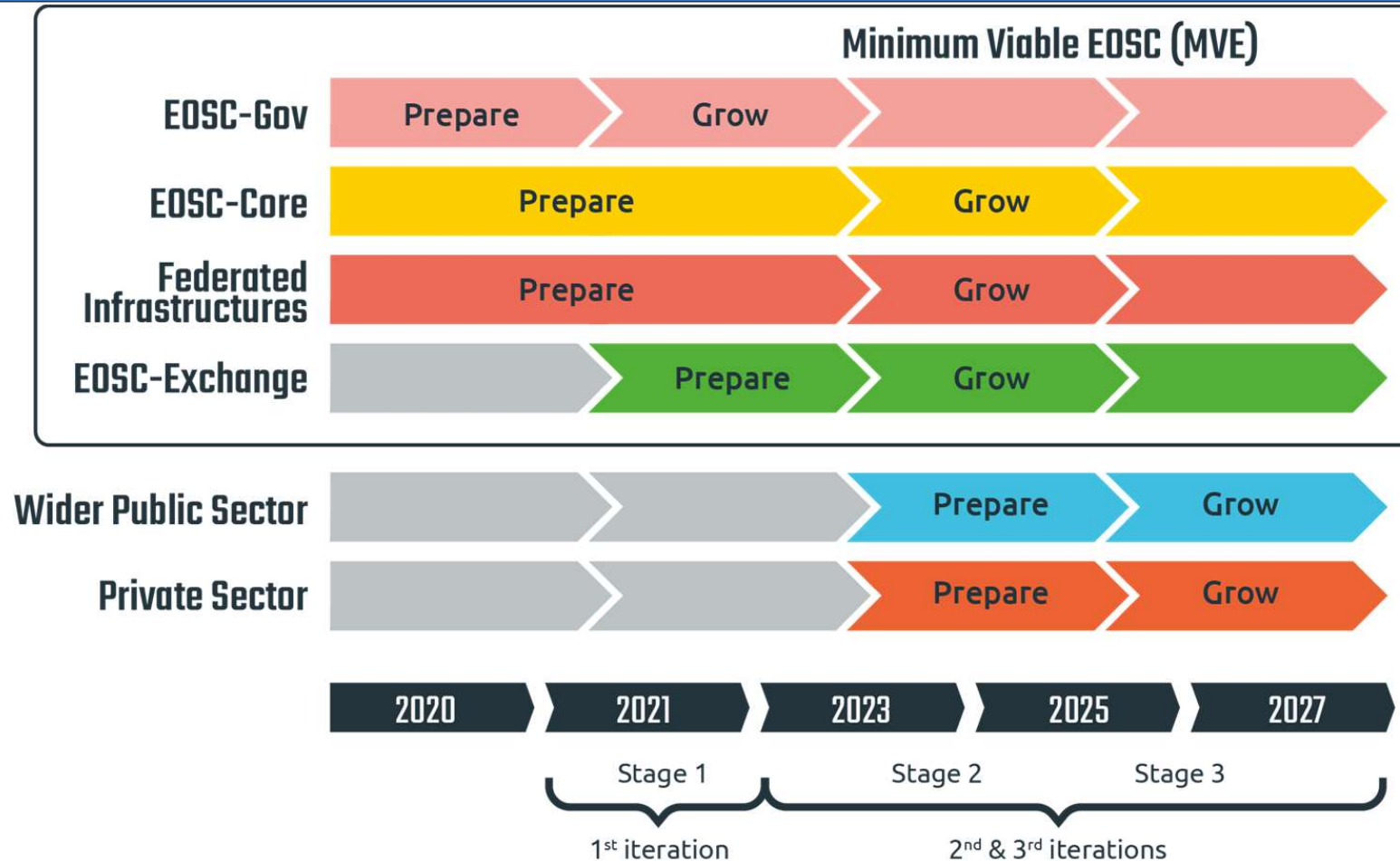
Manage the AAI

Manage PID policies

Outreach to stakeholders

Monitor services and transactions

Manage 'EOSC' trademark

Contribute to Horizon EU policy

Timeline of EOSC iterations towards a MVE

Minimum Viable EOSC (MVE)

	2020	2021	2023	2025	2027
EOSC-Gov	Prepare	Grow			
EOSC-Core	Prepare		Grow		
Federated Infrastructures	Prepare		Grow		
EOSC-Exchange		Prepare	Grow		
Wider Public Sector			Prepare	Grow	
Private Sector			Prepare	Grow	

Stage 1 — 1st iteration
Stage 2, Stage 3 — 2nd & 3rd iterations

Setting priorities for the 2023/24 period of EOSC

❑ The EOSC Association is currently updating the Multi-Annual Roadmap (MAR) to devise a set of priority actions and outcomes for the 2023/24 period.

    ❑ First draft released for **public consultation in March**

    ❑ To be finalised in April

❑ The MAR forms part of the Strategic Research and Innovation Agenda (SRIA), which defines the general framework for future research, development and innovation activities in relation to the EOSC.

❑ Three levels for implementation:

    ❑ European

    ❑ National

    ❑ Institutional

EOSC Portal

- A gateway to information and resources in EOSC
  - https://eosc-portal.eu
  - Includes a virtual tour for new users
- Catalogue and marketplace is how you discover, access and compose resources
  - Search by scientific domains or categories of services
- Finding research data
  - Currently via community repositories and catalogues
  - These are being aggregated to offer a cross-search in EOSC...
- In the future
  - Improved cross-catalogue discovery

EOSC Platform Early Adopter Programme

❑Access EOSC recourses that span the entire research life cycle

❑Receive constant support from EOSC experts on how to use EOSC resources

❑Access e-infrastructures to solve research challenges or

❑Make their services available to the research community at large

❑'Early Adopter Projects' will have a duration of 3, 6 or 12 months

❑A cut-off date for the 1st round of Early Adopter Projects is set for **15 May 2022**

EOSC projects

❑All projects funded by the European Union's Horizon 2020 research and innovation programme contributing to the establishment of the European Open Science Cloud.

❑https://eosc-portal.eu/about/eosc-projects

❑Currently 53

Building the Future of EOSC

❑ Horizon Europe Work Programme 2021-2022 - Research infrastructures

  ❑ DESTINATION – DEVELOPING, CONSOLIDATING AND OPTIMISING THE EUROPEAN RESEARCH INFRASTRUCTURES LANDSCAPE, MAINTAINING GLOBAL LEADERSHIP (INFRADEV)

  ❑ **DESTINATION – ENABLING AN OPERATIONAL, OPEN AND FAIR EOSC ECOSYSTEM (INFRAEOSC)**

    ❑ aiming at delivering a "Web of FAIR Data and Services" for Science: a trusted virtual environment supporting Open Science, based on key horizontal core functions, with their corresponding e-infrastructures, and service layers accessible to researchers across disciplines throughout Europe (~90 mil EUR)

  ❑ DESTINATION – RESEARCH INFRASTRUCTURE SERVICES TO SUPPORT HEALTH RESEARCH, ACCELERATE THE GREEN AND DIGITAL TRANSFORMATION, AND ADVANCE FRONTIER KNOWLEDGE (INFRASERV)

  ❑ DESTINATION – NEXT GENERATION OF SCIENTIFIC INSTRUMENTATION, TOOLS AND METHODS AND ADVANCED DIGITAL SOLUTIONS (INFRATECH)

  ❑ DESTINATION – NETWORK CONNECTIVITY IN RESEARCH AND EDUCATION - ENABLING COLLABORATION WITHOUT BOUNDARIES (INFRANET)

EOSC Symposium 2022

❑ The next EOSC Symposium will be held from 14 to 17 November, in Prague and online.

❑ It will bring updates from across the EOSC ecosystem.

Thank you!

for OPEN SCIENCE Cloud

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