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National Tripartite Event Italy
The EOSC Association and the Horizon Europe EOSC Partnership

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EOSC Association

16 May 2023 by EOSC-A

Today's Topics

- A Web of Scientific Insight

- The EOSC Association

- Its role in the Horizon Europe co-programmed EOSC Partnership

23 March 2023 by EOSC-A

EOSC - "A Web of Scientific Insight"

- Web of FAIR Data and related Services

- Federation of relevant existing and future data sources

- Virtual space where science producers and consumers come together

- An open-ended range of content and services

- Based on the FAIR principles

- Meeting all European data requirements

- In interaction with other regions of the world
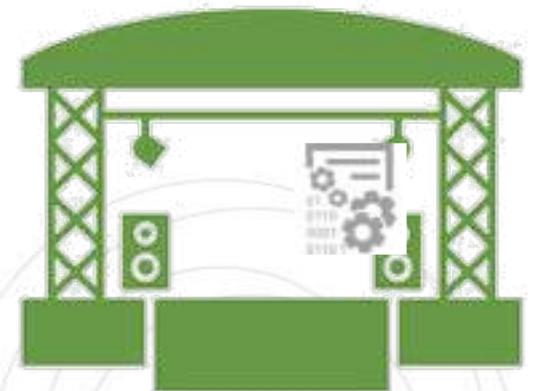
What do we concretely aim for?

- Researchers performing publicly funded research make relevant results available, as openly as possible;

- Professional data stewards are available in research-performing organisations in Europe to support RDM for Open Science;

- Research data produced by publicly funded research in Europe is FAIR (by design);

- The EOSC Interoperability Framework supports a wide range of FAIR digital objects including data, software and other research artefacts;

- EOSC Federation is populated with a valuable corpus of interoperable data;

- EOSC (version x) is operational and provides a stable infrastructure, supporting the research process and helping to address societal challenges;

- The scope of EOSC is widened to serve the public and private sectors;

- EOSC is a valuable and valued resource to a wide range of users from the research and education, public and private sectors (including for-profit).

Where do we stand?

- After an initial period of many projects without much convergence (2015-2020) we have to see that we get our aims sufficiently developed in the present period of convergence (2021-2026).

- For this it is essential that we get a Minimal Viable EOSC (MVE / EOSC-EU-node) operational asap and as good as possible aligned with work done by all the relevant communities (European, National and Institutional).

The EOSC Association - The Voice of the Community

The Purpose of the EOSC Association

Incorporation, 29 July 2020

(1) to provide a single voice for the advocacy and representation of the broader EOSC stakeholder community;

(2) to promote the alignment of European Union research policy and priorities with activities coordinated by the Association;

(3) to enable seamless access to data through interoperable services that address the entire research data life cycle.
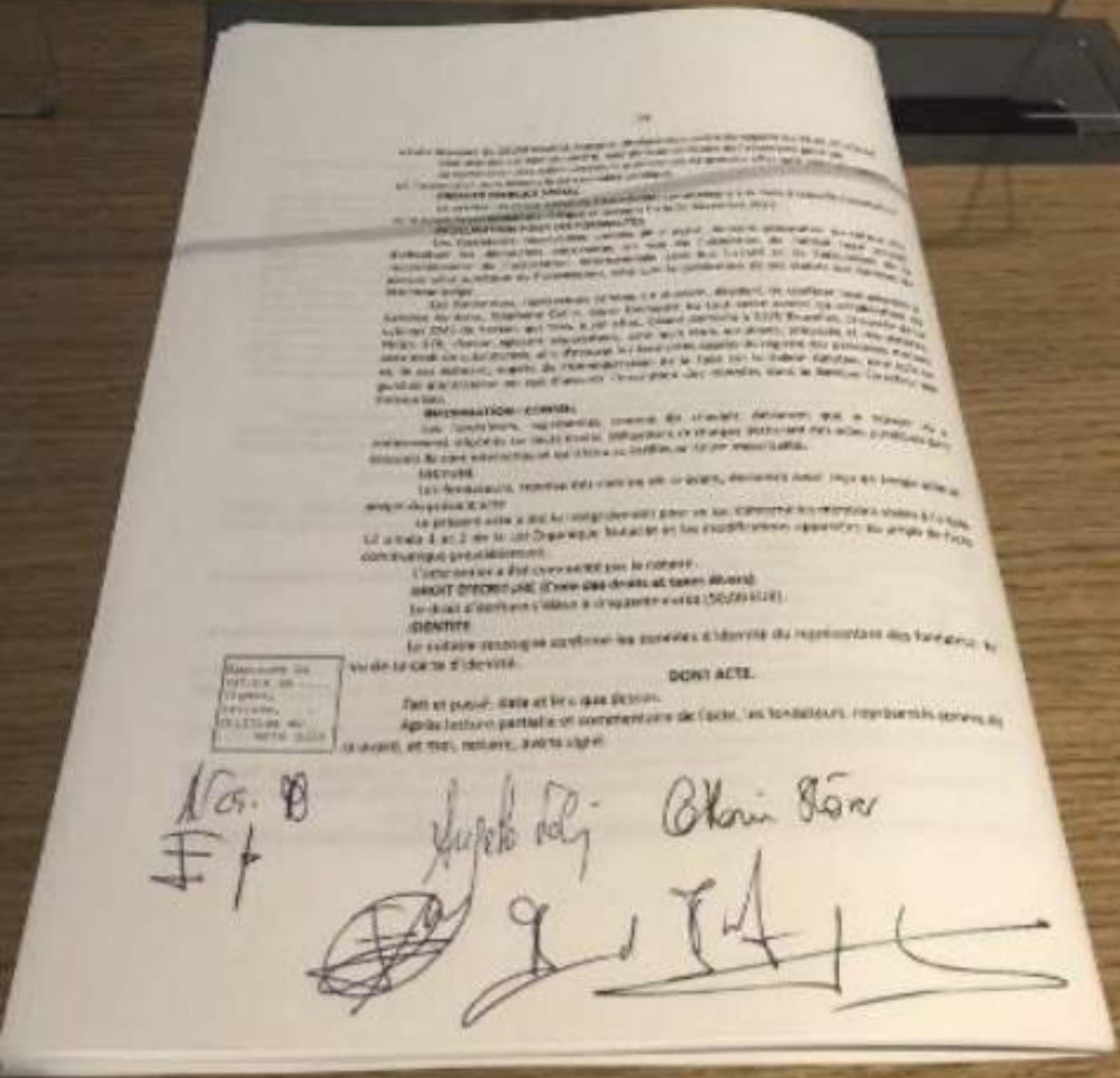
The Benefits of being a Member

- Actively **shape the strategic development** of the European Open Science Cloud by contributing to the Partnership's [Strategic Research and Innovation Agenda](#) and its [Multi-Annual Roadmaps](#);

- Actively **guide the strategy** for the EOSC implementation phase by contributing to EOSC-A's [Advisory Groups, Task Forces and Working Groups](#);

- **Participate** in General Assembly meetings with voting rights;

- **Gain a voice** in relevant policy dialogues and access to policy makers at the European and national levels;

- **Showcase** the contributions and impact of your organisation;

- **Network** with like-minded people and become an ambassador within your organisation's peer group.

167 Members and 84 Observers

A strong memberbase

Other organisation
6,7%

Research funding
7,7%

Service providing
34,0%

Research performing
51,6%

23
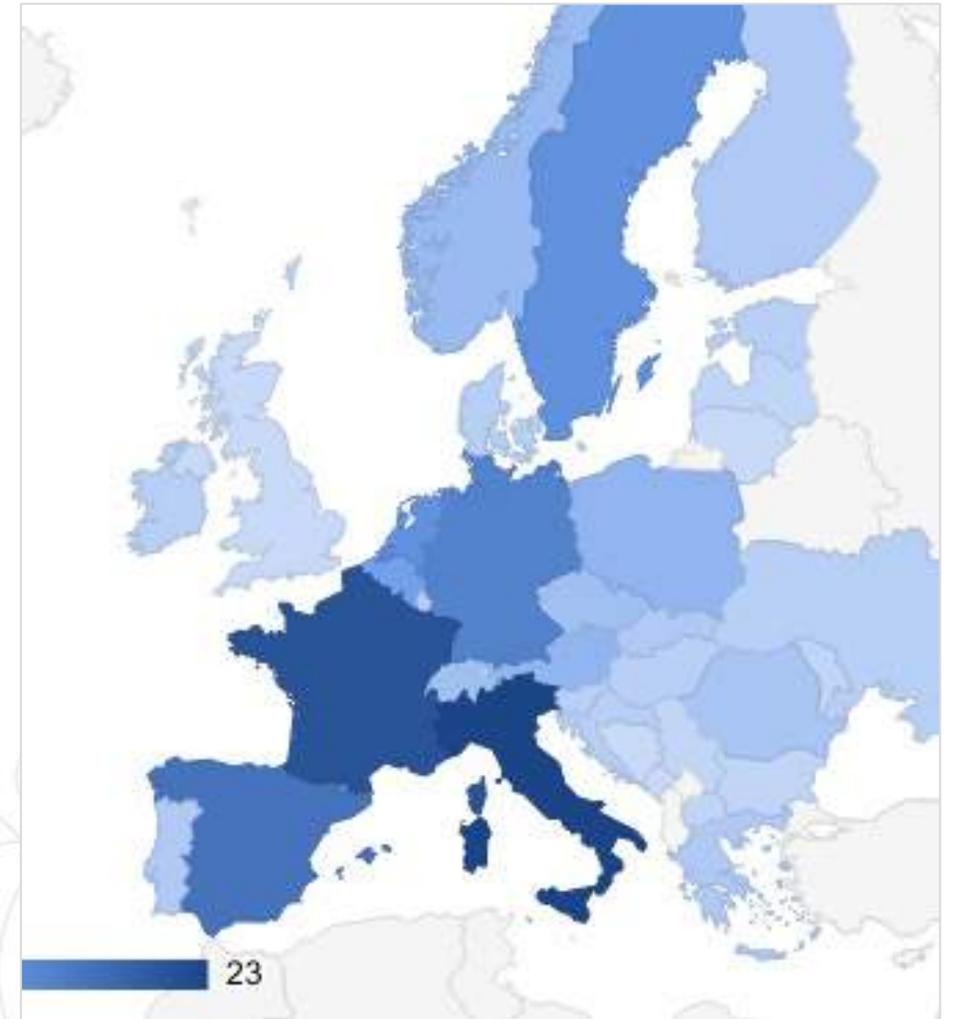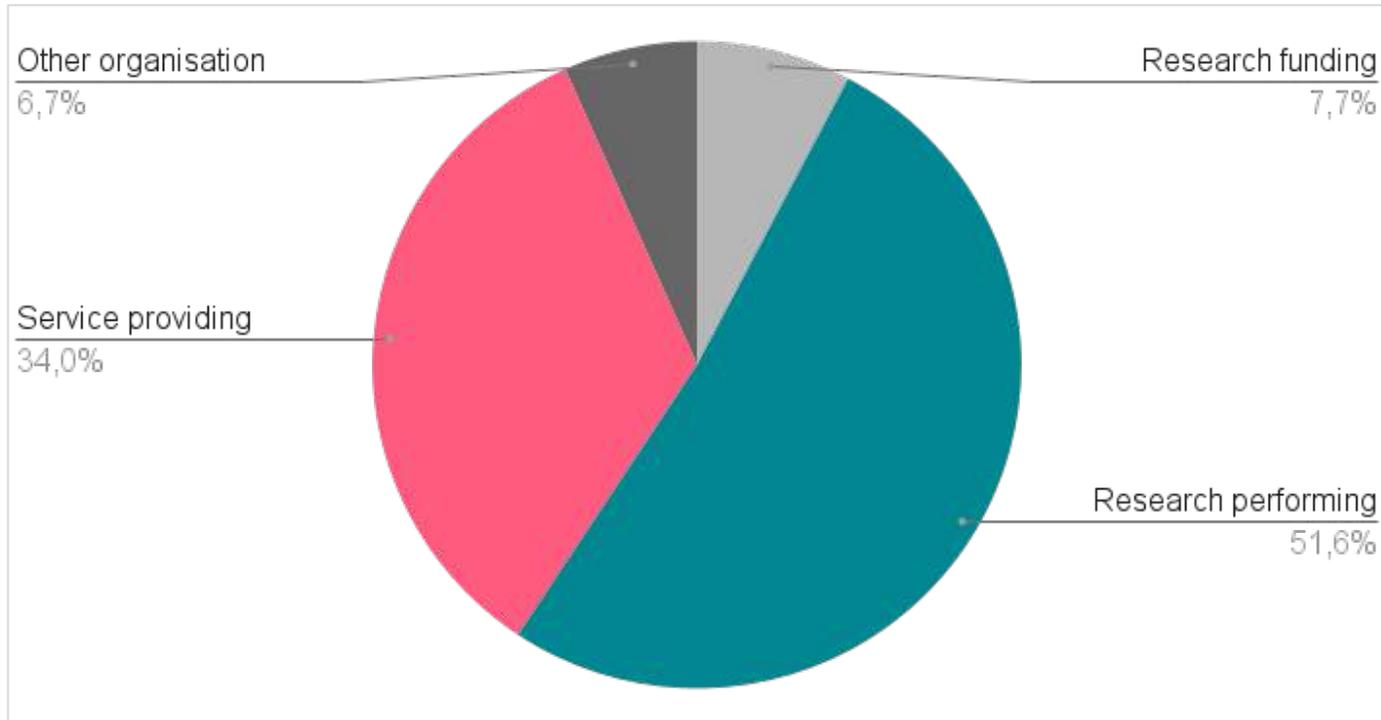
Italian Members & Observers

26 Organisations (1 Mandated Organisation, 22 Members, and 4 Observers)

Italians in EOSC-A

A Strong Community Voice

The EOSC Association Brain-Pool

13 Task Forces with over 400 volunteers

Implementation of EOSC

- Rules of Participation compliance monitoring
- PID policy and implementation
- Researcher engagement and adoption

Technical challenges on EOSC

- Technical interoperability of data and services
- Infrastructure for quality research software
- AAI Architecture

Metadata and data quality

- Semantic interoperability
- FAIR metrics and data quality

Research careers and curricula

- Data stewardship curricula and career paths
- Research careers, recognition and credit
- Upskilling countries to engage in EOSC

Sustaining EOSC

- Financial sustainability
- Long-term data preservation

564 members in the EOSC-A TF

| Research careers and curricula | Technical challenges | Sustaining EOSC |

48 people from 20 different italian organizations are members of the EOSC-A TF (8,50%)

8,50%

91,50%
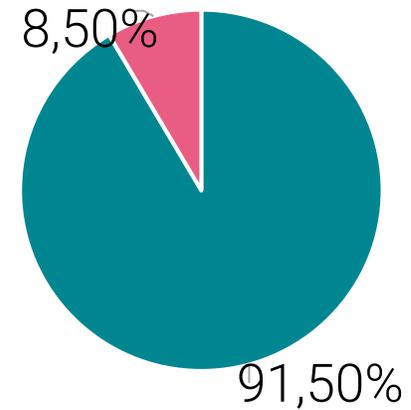
■ Other organizations   ■ Italian organizations

Horizon Europe co-programmed EOSC Partnership

Launched June 2021

One billion euros commitment by the European Union and the EOSC Association

16 May 2023 by EOSC-A

SRIA and MAR

Strategic Research and Innovation Agenda

Open Science practices and skills are rewarded and taught, becoming the 'new normal'

Standards, tools and services allow researchers to find, access, reuse and combine results

Sustainable and federated infrastructures enable open sharing of scientific results

Multi-annual roadmap sets priority activities and outcomes grouped by three implementation levels – European, National, Institutional

Three phases of MAR:

1. 2021-2022: development towards a functional federation of infrastructure
2. 2023-2024: expansion to production that generates added value
3. 2025-2027: expansion to develop impact from Open Science

Memorandum of Understanding (2021-2030)

Commitments

The MoU is established between the Partners
The EU represented by the Commission
The EOSC Association ("Partners other than the Union"), including its constituent entities (members)

The MoU is a contractual arrangement, not legally binding

Scope & objectives
To contribute to the objectives defined in the SRIA incl. the KPIs to measure progress
Expected financial and in-kind commitments by the partners (490 MEUR + 500 MEUR)

Governance: Partnership Board
Composition: Representatives appointed by the Partners other than the Union, Commission officials and Representatives of the Steering Board

Commitments of the EC
To duly take into account the input and advice from EOSC-A when defining call topics relative to the scope and objectives of the SRIA

Commitments of EOSC-A
In-kind contributions
Monitoring and Reporting

Commitments of the European Commission   Commitments of the EOSC Association

Demonstrating Added Value by 2025 – EOSC-A

Additional Activities of EOSC-A Members

AAP 2021 (Pilot)
EUR 309.005.000
Eligibility of all months unclear

AAP 2022
EUR 312.453.697
1468 FTEs
Demonstrators: EUR 64M

AAP 2023
EUR 383.929.296
2105 FTEs
Demonstrators: EUR 94M

EOSC Partnership KPIs

Monitoring Framework KPI Baseline

|	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
OO1_01 MVE Core functions											
OO1_02 EOSC-A member types & geographic spread											
OO2_01 monitoring system											
OO3_01 upskilling in Open Science											
OO4_01 EOSC Task Force recommendations											
OO5_01 operational technical components supporting FAIR											
OO6_01 FAIR assessment tools											
OO7_01 description of source code & of its management in DMPs											
OO7_03 pan-European infrastructures for research software											
OO8_01 initiatives or fora on rewards for FAIR and open data practices											
OO8_02 open science activities in research career assessments											
OO9_01 RoP Board to monitor and report on compliance with the RoP											
OO10_01 AAI frameworks											
OO11_01 PID allocation											
OO12_01 EOSC-A members with policies & fora for metadata standards											
OO12_02 (meta)datasets discoverable through EOSC											
OO13_01 EOSC stakeholder fora											
OO13_02 EOSC-A Task Forces											
OO14_01 models for availability & costing of transnational services											
SO1_01 immediate OA publications											
SO2_01 national recognition of curricula for data stewards				*analysis in progress*							
SO2_02 Supported by data stewards?											
SO3_01 RFOs requiring data sharing and incentivising data re-use											
SO4_01 run a certified repository											
SO4_02 adoption of standards and protocols for data sharing and re-use											
SO4_03 policies on FAIR in DMPs											
SO4_04 deposited FAIR & open data-sets in repositories											
SO5_01 adopted EIF for federated data into EOSC											
SO6_01 cross-disciplinary use cases on data sharing practices via EOSC											
SO7_01 data and services indexed through EOSC											
SO8_01 Services dedicated to end users available via EOSC											
SO8_03 European data spaces providing FAIR data into the EOSC											
SO9_01 EOSC-A observers outside EU MS/AC											
SO9_02 Connections EOSC & non-EU cloud and commons initiatives											

Delivering EOSC − the Process

The critical role of the INFRAEOSC Projects

MoU

DGs RTD & CNECT

EOSC Association

Negotiations with MS/AC

Multi-Annual Roadmap

Horizon Europe Work Programme

Vademecum

European Commission / REA

INFRAEOSC projects (EUR 490M)

EOSC Association / EOSC Focus

Community Consultation
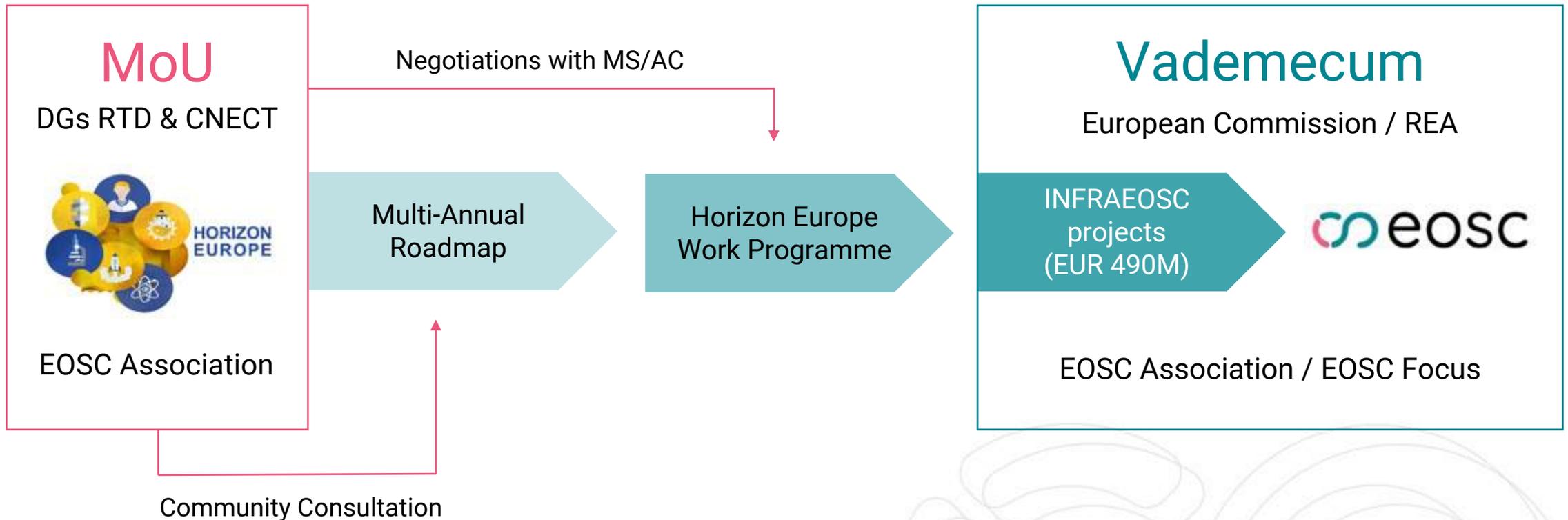
Collaboration INFRAEOSC Projects

eosc | FAIR-EASE

eosc | RAISE

eosc | cancer

eosc | FAIRCORE4EOSC

eosc | FAIR-IMPACT

eosc | EuroScienceGateway

eosc | Focus

AI4 | eosc

Skills 4 eosc

Horizon Europe INFRAEOSC Projects / 2022

Tracking & visualising the EOSC implementation

The Macroroadmap of the HE INFRAEOSC projects

- A new tool that will be made available for the EOSC stakeholders to:
  - Understand how the different HE INFRAEOSC projects contribute to the EOSC Implementation
  - Map the results of the HE INFRAEOSC projects on the EOSC roadmap timeline / SRIA implementation actions
  - Identify potential gaps in terms of EOSC implementation priorities

- The macroroadamp will be accessible via the eosc.eu website

- The macroroadmap is produced by EOSC Focus in collaboration with ALL the HE INFRAEOSC projects (*EOSC Focus is currently organising interviews with all the projects to gather the relevant information*)

- Iterative process
  - A first "macroroadmap" of results will be available by the EOSC Symposium 2023
  - The EOSC-A, via EOSC Focus, will keep the macroroadmap updated

Tripartite Collaboration

16 May 2023 by EOSC-A

Tripartite Collaboration - EOSC Partnership
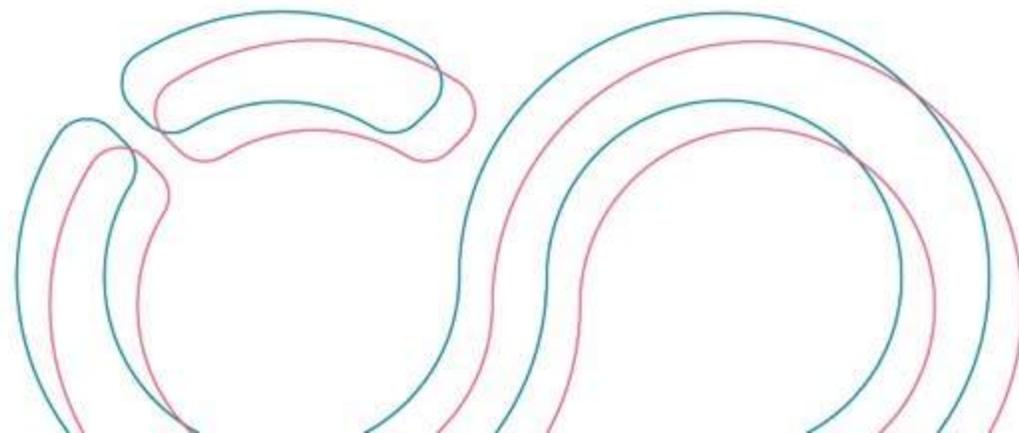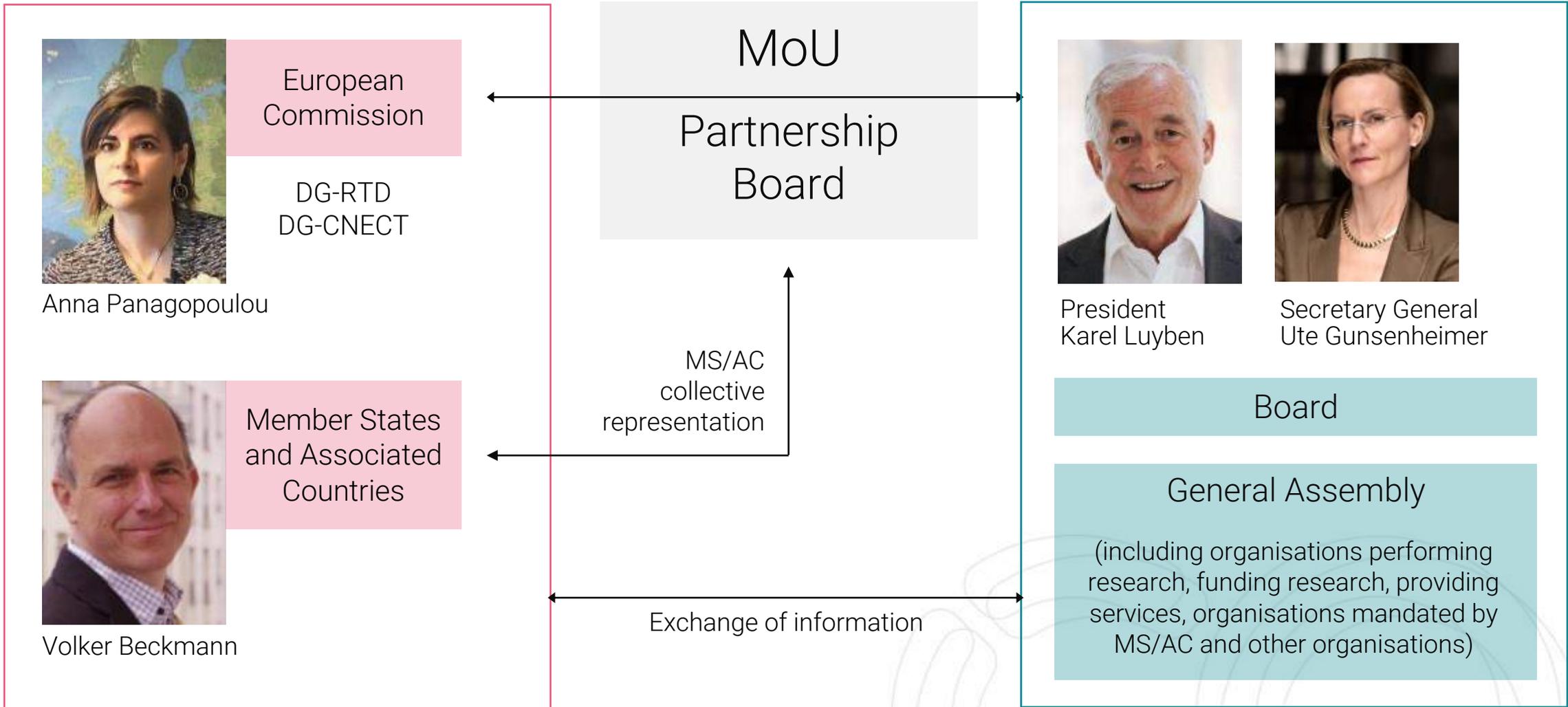
European Commission

DG-RTD
DG-CNECT

Anna Panagopoulou
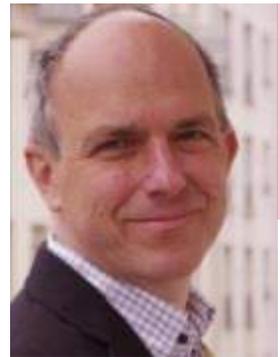
Member States
and Associated
Countries

Volker Beckmann

MoU

Partnership
Board

MS/AC
collective
representation

Exchange of information

President
Karel Luyben

Secretary General
Ute Gunsenheimer

Board

General Assembly

(including organisations performing
research, funding research, providing
services, organisations mandated by
MS/AC and other organisations)

EOSC Steering Board

EOSC Association

16 May 2023 by EOSC-A

National Tripartite Events

MAIN RESULTS:

- **21 countries targeted in NTE** (July 2022-April 2023)
- **1683 participants in National and NTE** (July 2022-April 2023)
- **+ 30 preparatory meetings**
- **29 country pages**
- **13 Articles**
- **6 Post event reports**
- **Social media coverage**

COUNTRY PAGES - SECTIONS:
- EOSC representatives
- OS in the country
- Coordination structures
- Policies
- Practices & Use Cases

2022

1293 Participants

177 Speakers & moderators

16 Countries targeted

March & April 2023

390 Participants

85 Speakers & moderators

5 Countries targeted

UPCOMING TRIPARTITE EVENTS (*May - September 2023*)

Tasks on the way to create EOSC

Operational and development tasks in discussion with the EC

1. Deploying and operating the EOSC EU node
   (Core, Exchange, FAIR Data Federation)
2. Maintaining and updating the EOSC EU node and expanding the EOSC federation
   (with elements that are close to the 'market')

3. Enabling a 'web of FAIR data and services' for science
4. Develop, prototype and test new elements supporting the evolution of the EOSC Core and Exchange and the tools enabling the federation
   (focus on elements that can be made ready for the 'market')
5. Enabling Open Science policies and the uptake of Open Science practices

Getting ahead of the curve and advancing to the next level, means:

- Take advantage of ongoing EU and national policy making

- Understand the evolving objectives of the funders of this transition

- Realise that FAIR is the most important requirement;

- Educate staff and 'train the trainer';

- Create 'Data/Digital Competence Centres';

- Connect to other relevant initiatives at domain-specific levels as well as on the national level

- Join this powerful movement to make Open Science the new normal