EOSC Liaison, Collaborations and Long Term Strategy

Period 1 Review meeting, 24/05/2022

Sergio Andreozzi
EGI Foundation: Head of Strategy, Innovation and Communications
EGI-ACE: Strategy Manager, WP2 Work Package Leader, T2.1 Task Leader

Dissemination level: Public

Disclosing Party: Project Consortium

Recipient Party: European Commission

Outline

- EOSC Liaison
    - Collaboration agreement
    - Contribution to the EOSC strategy

- Key collaborations
    - EOSC Task Forces
    - EOSC DIH
    - GAIA-X
    - Data Spaces Business Alliance

- Long-term strategy
    - Top 6 recommendations

EOSC Liaison and Collaborations

EOSC Exchange Capacity Building

Distributed Computing Services

RELIANCE (Research Lifecycle Management for Copernicus users)

Data discovery, deposition, bit preservation storage

C-SCALE (Copernicus EOSC data analytics engine)

Open scholarship services

EOSC Future

Collaboration agreement signed on 15/Oct/21:

- Technical Activities
- Uptake
- Training

Collaboration Agreement with INFRAEOSC-07 projects and EOSC-Future

Signed in October 2021

01 Technical activities
- Architecture & Technical Interoperability
- Services Provisioning
- Resources and Technical Support

02 Uptake
- Joint promotional activities
- Joint engagement activities

03 Training
- Joint training activities
- Co-development of EOSC training materials
- Promotion, hackathon, summer schools

highlights →

17 (+4) ECP services
18 (+4) Thematic services
8 (+3) external Them. services
onboarded in EOSC marketplace

EOSC-F Compute Continuum WG
initiative by EGI-ACE (link)

Tech. Spec. for compute common services
fed into EOSC Interop. Guidelines

highlights

EOSC Providers Days
speakers and supporters provided

3 EOSC-F AMA sessions on data storage, software and compute
led by EGI-ACE

highlights

+
Cross-Project Collaboration Board

Contributed data transfer, notebooks and binder
for cross-project demonstrators

2 EOSC-F Science Projects (PaNOSC and ESCAPE)
support provided

EOSC DIH
Integration support and services

Contribution to EOSC Strategy
Highlights

- EOSC Future D2.9 Co-designed Architecture Description
  - Contribution of components for the continuous delivery of an operational and impactful EOSC:
    - From EGI-ACE: **Compute Infrastructure**, **Compute Platform**, **Compute Services for Multidisciplinary Science**
  - Contributed feedback to raise the importance/value of the EOSC Compute Platform
    - Continue to guarantee free-at-the-point-of-use access to relevant EOSC-Exchange resources
    - Highlighted the importance of the automated resource allocation mechanisms, based on requests without human intervention, and technical support

- EOSC Consultation on the EOSC Multi-Annual Roadmap for 2023-2024
  - Collected inputs from the Strategy Foresight Expert Group (SFG)
  - Validated with EGI-ACE PMB
  - Submitted for consideration by EOSC-A

EOSC Portal

Top 3 services and 30% of orders from EGI-ACE

Service	Sum
EGI CLOUD COMPUTE	39
EGI NOTEBOOK	20
EGI ONLINE STORAGE	12

Other EOSC Collaborations

- Contribution to EOSC Task Forces
  - Several members of the EGI-ACE project are actively involved in EOSC TFs
  - Highlights:
    i. Interoperability guidelines contributed to the EOSC Interoperability Framework
    ii. EOSC Compute Platform use case submitted to the EOSC FinSust TF
    iii. Contribute to the EOSC AAI Architecture 2022

- Collaboration with EOSC DIH
  - EGI-ACE services also support pilots from the EOSC DIH

Other Key Collaborations

- Collaboration with GAIA-X working groups and Data Spaces Business Alliance
  - Data space business models and governance
    - Paper: '*Governance, Architectures and Business Models for Data and Cloud Federations: the EOSC and GAIA-X Case Studies*'
  - Technical collaborations on federated trust and identity management, federating services, labelling and certification and best practices for discovery of services and data
  - Research data use cases

Governance, Architectures and Business Models for Data and Cloud Federations: the EOSC and GAIA-X Case Studies[1]

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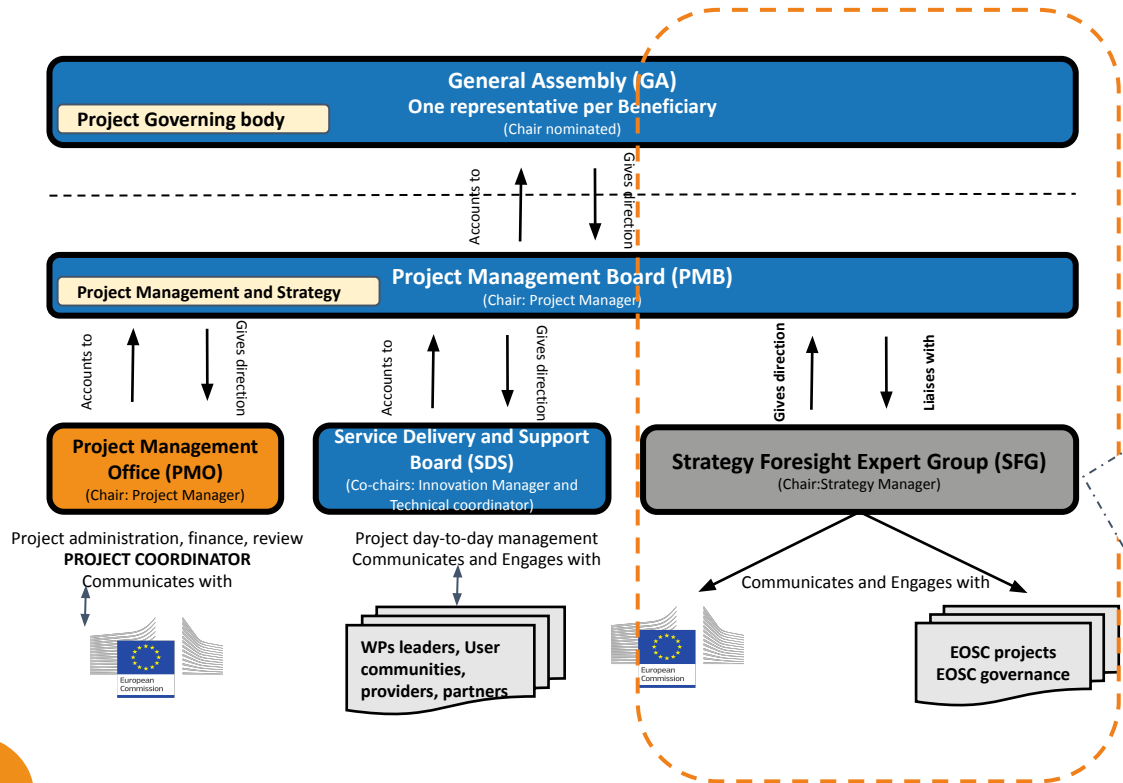
Abstract

Data and tools to realize the data value chain are enablers of digital transformation in all sectors of the economy and society, boosting economic development, increasing the ability to tackle societal challenges and excel in science. To realize this, collaboration, across business sectors, scientific domains and organizational boundaries, countries and continents, is widely seen as essential to innovation, productivity and discovery. Federation of data and services coupled with interoperability frameworks for compliance to federation-level policies, technical standards and service delivery processes, have been successfully adopted in many domains. This paper compares governance, architectures and models of federation for cloud-based data exploitation focusing on two use cases: the European Open Science Cloud and GAIA-X, the Federated Data Infrastructure for Europe.

[view on Zenodo](#)

Long Term Strategy

6 top-level recommendations

Strategic development and Governance

General Assembly (GA)
One representative per Beneficiary
(Chair nominated)

Project Governing body

Accounts to

Gives direction

Project Management and Strategy

Project Management Board (PMB)
(Chair: Project Manager)

Accounts to

Gives direction

Accounts to

Gives direction

Gives direction

Liaises with

Project Management
Office (PMO)
(Chair: Project Manager)

Service Delivery and Support
Board (SDS)
(Co-chairs: Innovation Manager and
Technical coordinator)

Strategy Foresight Expert Group (SFG)
(Chair:Strategy Manager)

Project administration, finance, review
PROJECT COORDINATOR
Communicates with

Project day-to-day management
Communicates and Engages with

European Commission

WPs leaders, User
communities,
providers, partners

European Commission

Communicates and Engages with

EOSC projects
EOSC governance

5 Role-based members
1. Project coordinator
2. Technical coordinator
3. Project manager
4. Strategy manager
5. Innovation manager

4 Elected members from GA
1. Sergio Maffioletti (ETH, CH)
2. Anabela Pacheco de Oliveira (LNEC, PT)
3. Luděk Matyska (CESNET, CZ)
4. Juan Gonzalez (IISA, ES)

Approach to define the EGI-ACE Strategic Recommendations

EGI-ACE D2.2 Table of Contents

https://doi.org/10.5281/zenodo.5745168

- Mapping EGI-ACE contribution to EOSC SRIA Objectives
- Mapping EGI-ACE activities to EOSC Task Forces

- Mapping EGI-ACE contribution to EGI Federation Strategic Goals

- Formulated in terms of:
  - Issue
  - **Recommendation**
  - Desired outcome
  - **Initiatives**
  - **Progress**

Strategic Recommendations (1/6)

Area: EOSC Compute Platforms

REC1

Promote the **value proposition** of the **EOSC Compute Platform** so that it is recognised as an official EOSC element and valued by both service providers and users.

Initiatives	Progress
1. Prepare a policy brief about the EOSC Compute Platform	EOSC-F D2.9 contribution + impact report + draft ECP flyer
2. Explain value of EOSC Compute Platform on the EGI-ACE website	New website in place with enriched info
3. Promotion of EOSC Compute Platform to relevant Horizon Europe projects	Email promotion campaign for 'AI/ML projects' and for 'Big data projects' started

Strategic Recommendations (2/6)

Area: EOSC Compute Platforms

REC2

Develop open and transparent **processes** and **procedures** for **new providers and new services to join the EOSC Compute Platform**. Also, define the relationship with the EGI Federation governance

Initiatives	Progress
1. Define open processes and procedures to join the EOSC Compute Platform	● Initial stage of work ● More focus during the second period
2. Clarify how being part of the EGI Federation relates to being part of the EOSC Compute Platform	● Initial stage of work ● More focus during the second period

Strategic Recommendations (3/6)
Area: EOSC Compute Platforms

REC3

Develop and sustain the **researcher support network** of the EOSC Compute Platform and link it with emerging EOSC user support networks

Initiatives	Progress
1. Run internal training for the supporters within the consortium and for newly joining service providers so they can become professional in serving users and providers	● Prepared shepherds' handbook ● Conducted training workshop for shepherds and use case submitters
2. Promote the value of research support networks within EOSC and link the EOSC Compute Platform network with those	● Shepherds program ● Planned training for EOSC trainers

Strategic Recommendations (4/6)

Area: EOSC Compute Platforms

REC4

Seek **support** for **sustaining and scale out** the delivery of the **EOSC Compute Platform** after the end of EGI-ACE

Initiatives	Progress
1. The EOSC Compute Platform is promoted as a scenario within the EOSC Task Force on Financial Models	● The TF started is working on scenarios across 3 sub-groups: EOSC Core, EOSC Exchange, Federation of Data ● EOSC Compute Platform use case description submitted
2. The EOSC Compute Platform is promoted towards the EOSC Partnership for support in the context of the Multi Annual Roadmap	● Submitted reply to the EOSC MAR Consultation

Strategic Recommendations (5/6)

Area: Data Spaces

REC5

Contribute to the development of a **data space reference model** and support the definition of related financial and sustainability models. Build **partnership** with **relevant data space initiatives**

Initiatives	Progress
1. Provide leadership to the research community in monitoring and responding to future calls about Data Spaces in the HE and Digital Europe programmes	Aligned the community to opportunities for proposals in the area
2. Develop a data space reference model and implementation guidelines useful for developing financial models to be submitted to the related EOSC Task Force	Planned for the second part of the project
3. Liaise with emerging and existing Data space initiatives for future collaboration and the exchange of approaches and technologies	More extensive landscape analysis towards the end of 2022, when the whole new set of Data Space projects will start in Digital Europe

Strategic Recommendations (6/6)

Area: Data Spaces

REC6

Contribute to the development of the **EOSC Interoperability Framework**, to the "**Data Spaces Technical Framework**" and to other relevant initiatives that work towards a **single European Data space**.

Initiatives	Progress
1. Capture lessons learned, best practices about Data space interoperability and bring this as input in the relevant EOSC task forces and other initiatives that work on Data spaces interoperability	Planned for the second part of the project
2. Monitor the Data spaces landscape, identify and lift into EGI-ACE solutions that help the EGI-ACE data spaces be more interoperable with each other and with the broader landscape	Planned for the second part of the project

FUTURE PLAN

Plan for the next period

- EOSC Liaison and Collaborations
    - Keep up with our active participation in the Collaboration Agreement activities
    - Ensure profitable exchange of information with EOSC Task Forces
    - Progress business model and architecture activities on data spaces in collaboration with GAIA-X and the Data Spaces Business Alliance
    - Continue technical integration work with HPC data centres of the EGI Federation preparing the grounds to a collaboration with EuroHPC

- Long term strategy
    - Implement, review and control the various initiatives towards achieving the recommendations
    - Develop post-project recommendations and suggested initiatives for the relevant EOSC stakeholders and follow up activities

Thank you!

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