

# EOSC Beyond intro

Webinar: New Integration and  
Execution Services in EOSC Beyond

*27 November 2025*





Next Generation Core services to **support the setup and the Federation of EOSC Nodes**

AAI, Resource Catalogues,  
Monitoring  
Accounting, Helpdesk, etc.



**Improved existing EOSC  
Core services and  
framework**



Advanced IF registry  
Machine composability  
AWM

**The EOSC  
Execution  
Framework**



SW Libraries implementing  
interface described in the  
EOSC IF Guidelines

**The EOSC  
Integration  
Suite**



**EOSC Technical  
Architecture and EOSC  
Node Architecture**

**EOSC Core Innovation Sandbox**



**National/Regional:**

Germany (NFDI)  
Czech Republic (e-Infra CZ),  
NI4OS Southeast Europe (GRNET, IPB, UKIM)

**e-Infrastructures:**

EGI Federation



**Network of EOSC Pilot Nodes**

**Thematic:**

Environmental (LifeWatch)  
Health and Food (METROFood-RI)  
Structural Biology (Instruct-ERIC)  
Climate Science (ENES)

Contribution to the definition of EOSC  
Technical Architecture

EOSC Federation: Architecture and Federating Capabilities  
[doi.org/10.5281/zenodo.13939396](https://doi.org/10.5281/zenodo.13939396)  
~ 2k downloads on Zenodo

Innovation Sandbox Open to Externals

Explore the Sandbox  
[sandbox.eosc-beyond.eu](https://sandbox.eosc-beyond.eu)

Introduced in the first EOSC  
Beyond webinar 19 June  
2025  
[www.eosc-beyond.eu/event/  
webinar-eosc-core-innovation-sandbox](https://www.eosc-beyond.eu/event/webinar-eosc-core-innovation-sandbox)

Pilot Nodes in Testing

Check out the new user stories & factsheets!  
[www.eosc-beyond.eu/pilots](https://www.eosc-beyond.eu/pilots)

All project deliverables on website and Zenodo  
<https://www.eosc-beyond.eu/project-deliverables>

Release of New Services: Integration  
Suite and Execution Framework

**This is what we will  
discover today!**

- **Pre-production environment of the EOSC Platform**
- **Testing and staging environment**
- **Equipped with advanced automation tools**

## Main features

- **Federating capabilities**
- **Technical support**
- **Showcase new EOSC Core capabilities**



EOSC CORE INNOVATION  
SANDBOX OPEN TO  
EXTERNAL USERS



<https://sandbox.eosc-beyond.eu/>

## Welcome to the EOSC Core Innovation Sandbox

[Contact us](#)

The EOSC Core Innovation Sandbox by EOSC Beyond is a pre-production environment of the EOSC Federation that acts as a testing and staging environment.

The Sandbox can be used by EOSC Nodes and other providers for the technical deployment of their use cases in EOSC.

It can also be used by researchers and other end-users to assess the EOSC capabilities.

## EOSC Integration Suite

[www.eosc-beyond.eu/service/eosc-integration-suite](http://www.eosc-beyond.eu/service/eosc-integration-suite)

Carlos Brandt  
EGI Foundation



The EOSC Integration Suite provides a set of tools designed to share and reuse software libraries (adapters) among research communities and technology providers, addressing common patterns in scientific applications. These adapters complement the Interoperability Guidelines of the EOSC IF, implementing the interfaces and the best practices they define.

## EOSC Execution Framework

[www.eosc-beyond.eu/service/eosc-execution-framework](http://www.eosc-beyond.eu/service/eosc-execution-framework)

Alessia Bardi  
OpenAIRE / CNR-ISTI



The EOSC Execution Framework provides an extendable suite of composability-based applications designed to enhance the deployment and accessibility of services within the EOSC ecosystem.

# Thank you!

[federico.drago@egi.eu](mailto:federico.drago@egi.eu)

## Get in touch with us

Website [www.eosc-beyond.eu](http://www.eosc-beyond.eu)

LinkedIn [/company/eosc-beyond/](https://company/eosc-beyond/)

YouTube [@EOSCBeyond](https://www.youtube.com/@EOSCBeyond)

Bluesky [@eosc-beyond.bsky.social](https://bsky.social/eosc-beyond)

Email [eosc-beyond-po@mailman.egi.eu](mailto:eosc-beyond-po@mailman.egi.eu)



Funded by  
the European Union