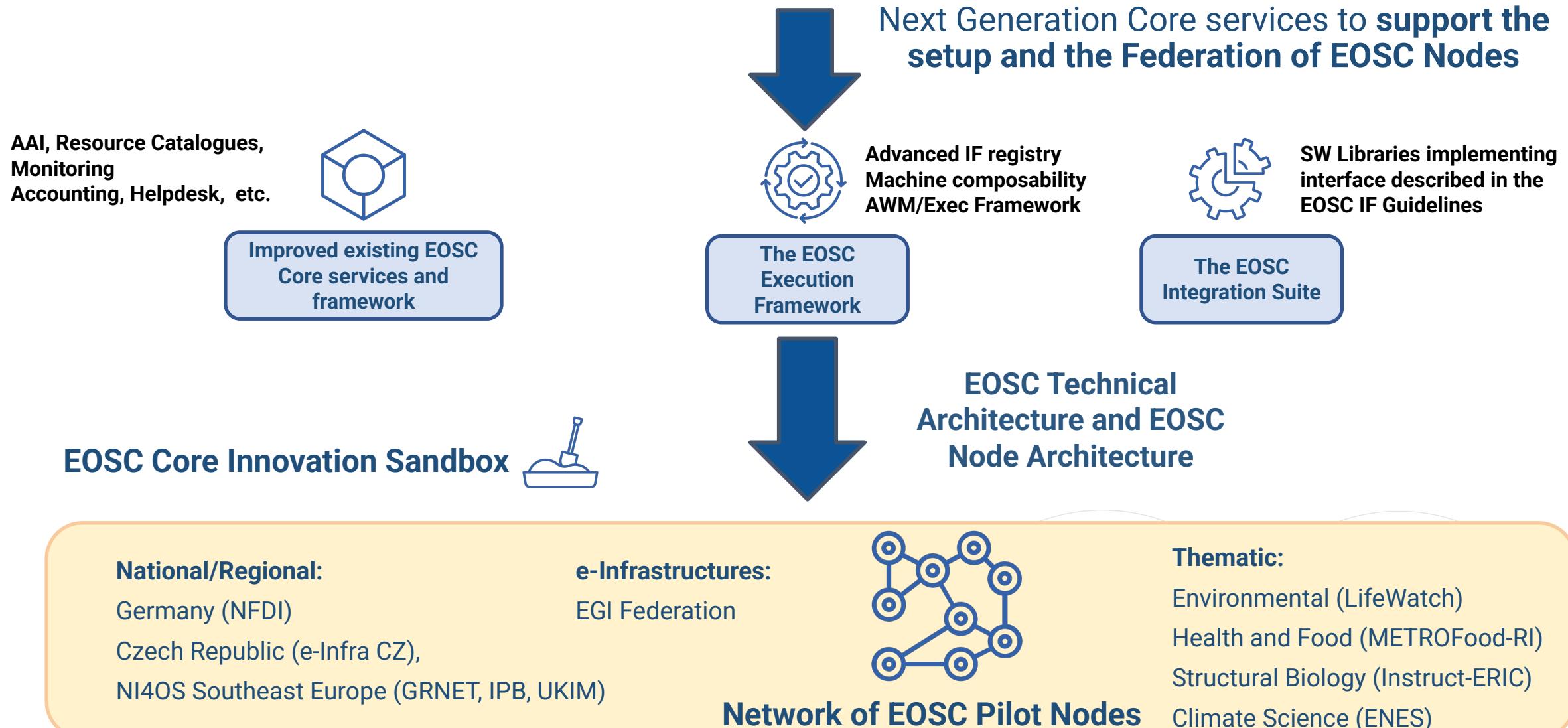


# EOSC Beyond

## Building Blocks to Create EOSC Nodes





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

EOSC Architecture described in the Handbook based on the EOSC Beyond work

Advanced Version of Core Services available

Ready to be used by **EOSC Nodes**

Release of New Core Services:  
Integration Suite and Execution Framework

<https://www.eosc-beyond.eu/event/webinar-new-integration-execution-services-eosc-beyond>

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)

Innovation Sandbox Open

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

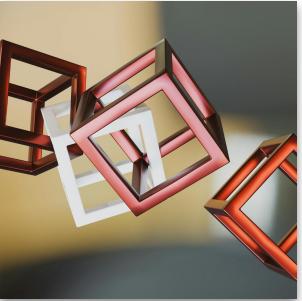
All project deliverables on website and Zenodo  
<https://www.eosc-beyond.eu/project-deliverables>

Pilot Nodes in Testing

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



**Core Services Offered as Building Blocks to create Nodes**

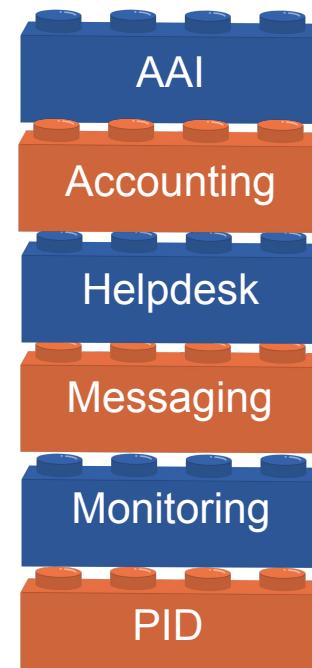
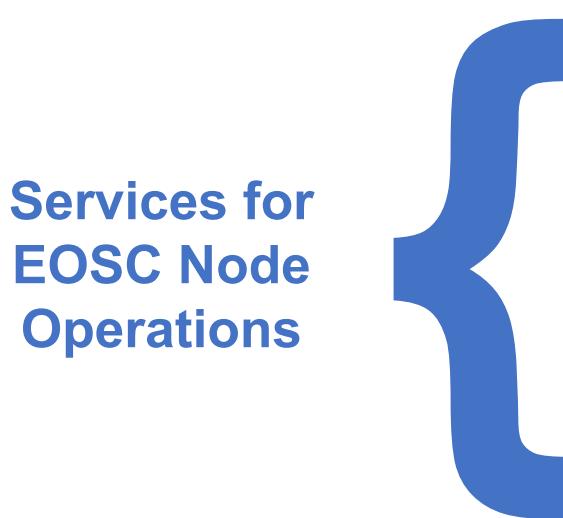


**Innovative Core Services to Empower Eosc Nodes:  
Integration Suite & Execution Framework**



**A Test Environment to Develop and Validate Your Node**

**Ready to use technologies to develop all the Core Services of the EOSC Node Architecture (see [EOSC Federation Handbook](#))**



**Infra Services**



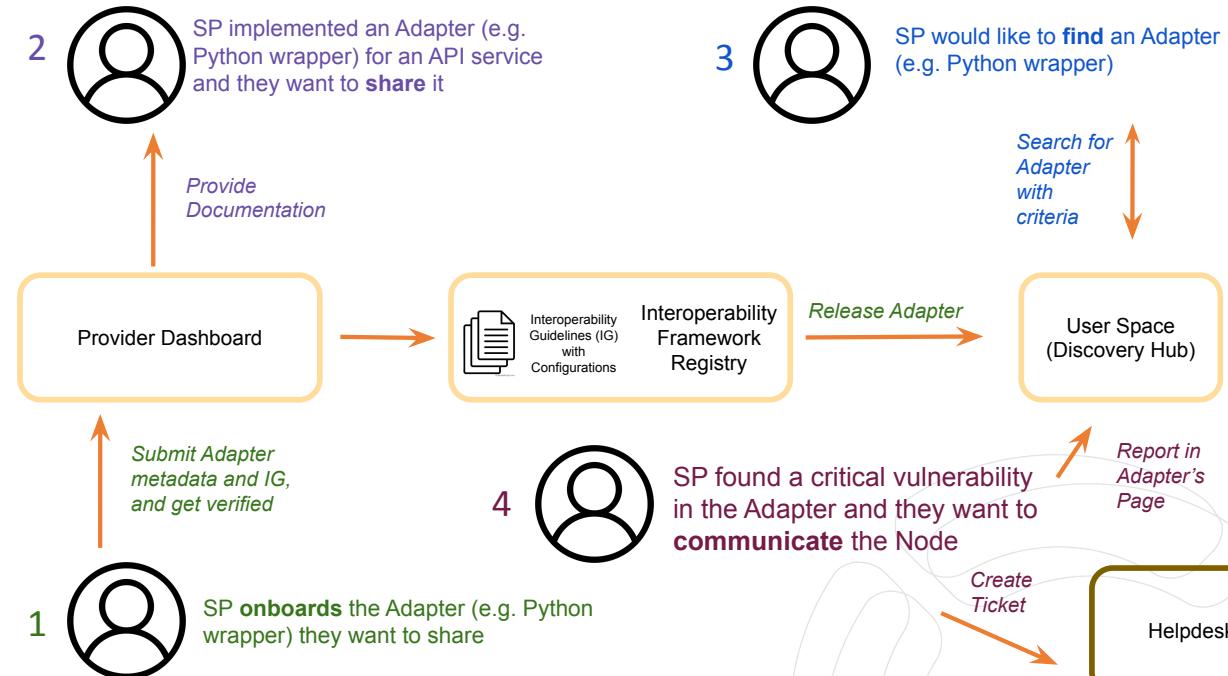
**Discovery and Access Services**

[Documentation Hub](#)

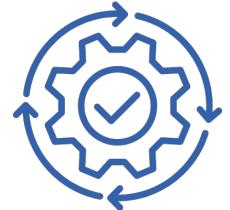
If you are interested please [Contact Us](#)

## Integration Suite - Make services work together

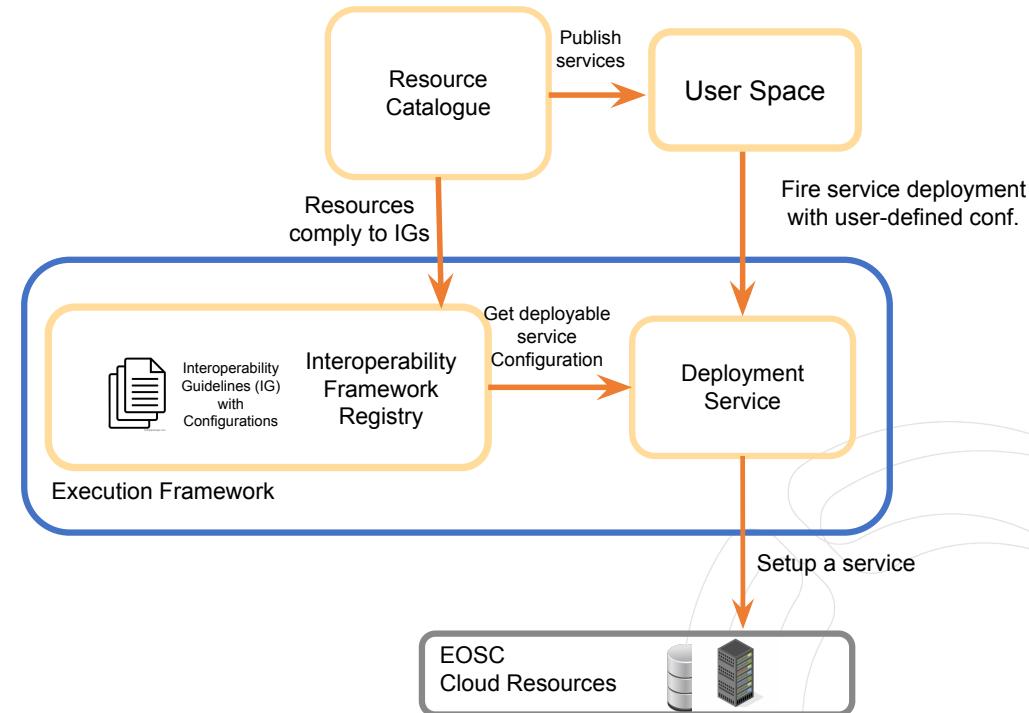
- Addresses fragmentation across EOSC services
- Facilitate cross-disciplines research and data integration



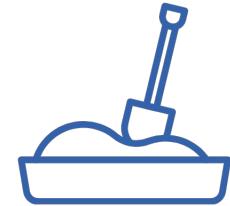
## Execution Framework – Run scientific applications



- Enables automated execution of complex workflows on EOSC NODES
- Supports distributed execution over multiple infrastructures and NODES
- Enable automated scalability and increased reliability

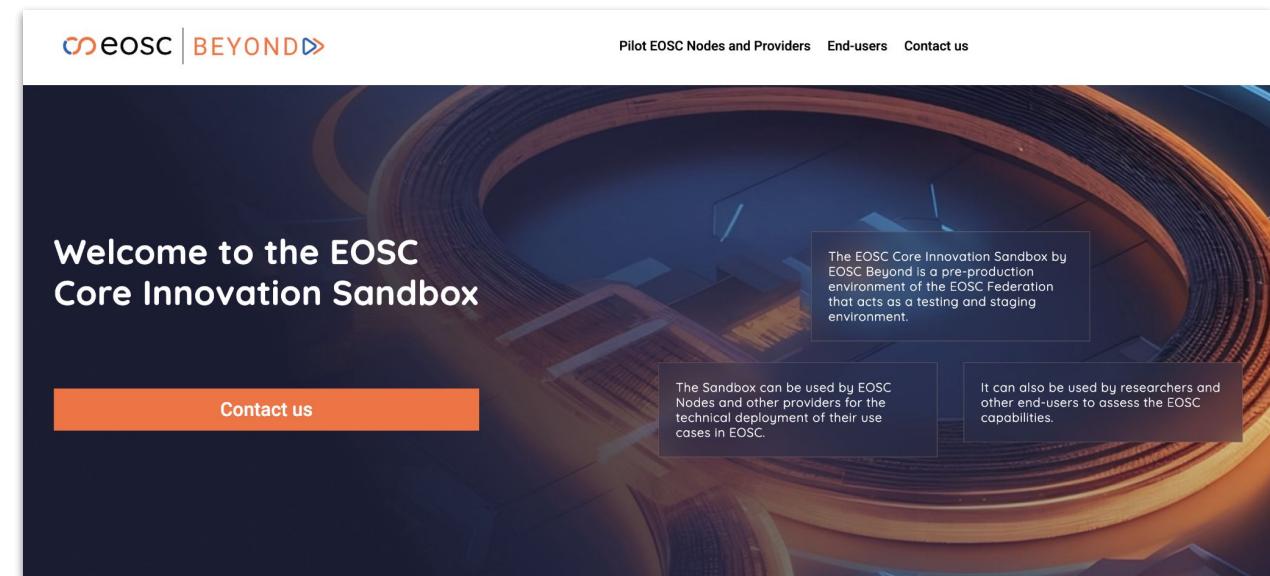


**A Test Environment to develop and validate your Node before joining the EOSC Federation**



## Main features

- Test the integration with mandatory and optional Federating Capabilities (AAI, Helpdesk, Monitoring, etc.)
- Technical support from EOSC Core services experts
- Develop pilots and showcase new services in EOSC



## With EOSC Beyond you can:

- Fill in your technological gaps reusing **EOSC Beyond Core services** technologies to implement your Core Services
- Enhance your Node Integrating data, compute and services seamlessly with the **Integration Suite** and the **Execution Framework**
- Develop and test your Node on our testbed, the **EOSC Core Innovation Sandbox**
- Get **technical support** to build your Node from experts



👉 **Contact us** [sandbox.eosc-beyond.eu/#contact](mailto:sandbox.eosc-beyond.eu/#contact)

# Project Factsheet



## Call topic:

HORIZON-INFRA-2023-EOSC-01-04

Next generation services for operational and sustainable EOSC Core Infrastructure

## Project Officer:

Flavius Alexandru PANA  
European Research Executive Agency  
Unit REA.C.4

**Budget:** 10.000.000€

**Start:** 01/04/2024

**Duration:** 36 months

16

Work packages

39

Deliverables

33

Milestones

**Consortium:** 33

- **E-Infrastructures:** EGI, OpenAIRE, EUDAT, GEANT, CYFRONET, DANS, FZJ, GRNET, GWDG, IISAS, INFN, IPB, KIT, LIP, UPV, SRCE, UKIM, UPV
- **Technology providers:** ATHENA, CERN, CESNET, CYFRONET, DANS, FZJ, GRNET, GWDG, IISAS, INFN, IPB, KIT, LIP, UPV, SRCE, UKIM, UPV
- **Research communities:** CNB-CSIC, CESSDA (EKKE, TARKI), CMCC, DESY, ENEA, INSTRUCT-ERIC, LifeWatch, NFDI, Premotec, UNITN

**Coordinator:** EGI Foundation



# Thank you!

## Get in touch with us

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