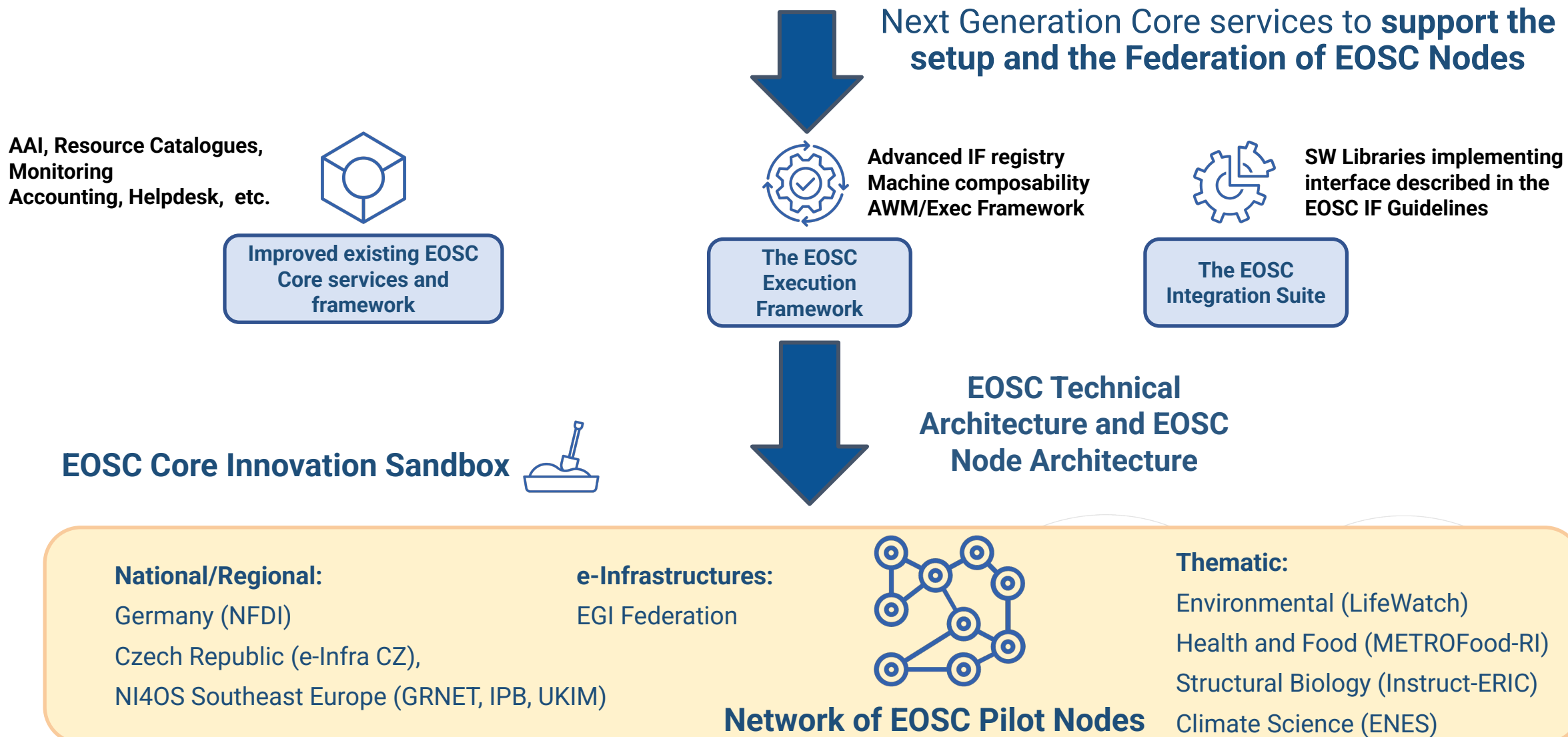


EOSC Beyond

Building Blocks to Create EOSC Nodes



eosc | BEYOND» The EOSC Beyond Project



eosc | BEYOND» 18 Months of Progress

Contribution to the definition of
EOSC Technical Architecture

EOSC Federation: Architecture and Federating Capabilities

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

Innovation Sandbox Open

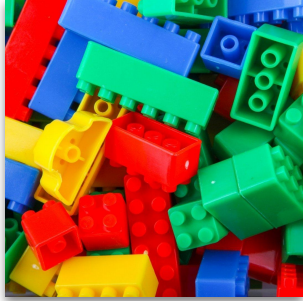
Explore the Sandbox
sandbox.eosc-beyond.eu

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

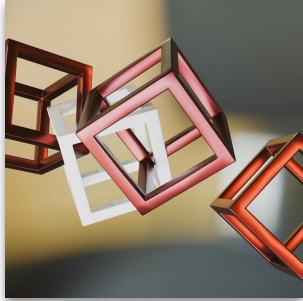
Pilot Nodes in Testing

Check out user stories and
factsheets!

www.eosc-beyond.eu/pilots



Core Services Offered as Building Blocks to create Nodes



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

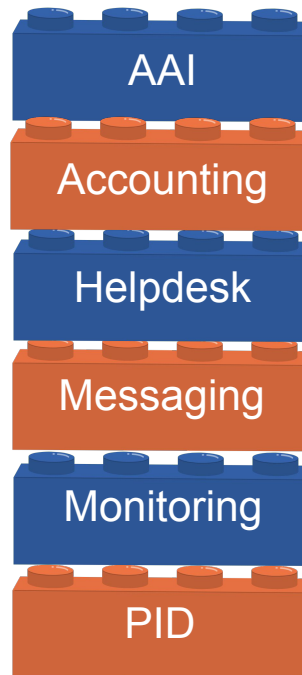


A Test Environment to Develop and Validate Your Node

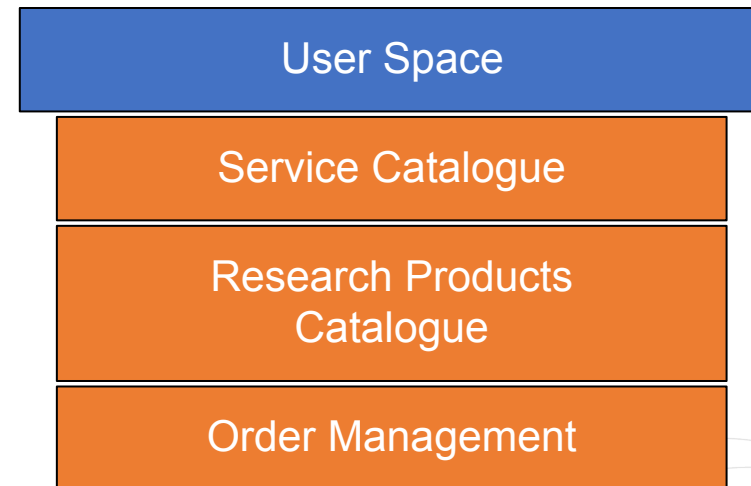
eosc | BEYOND» Core Services offered as Building Blocks

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

**Services for
EOSC Node
Operations**



Infra Services



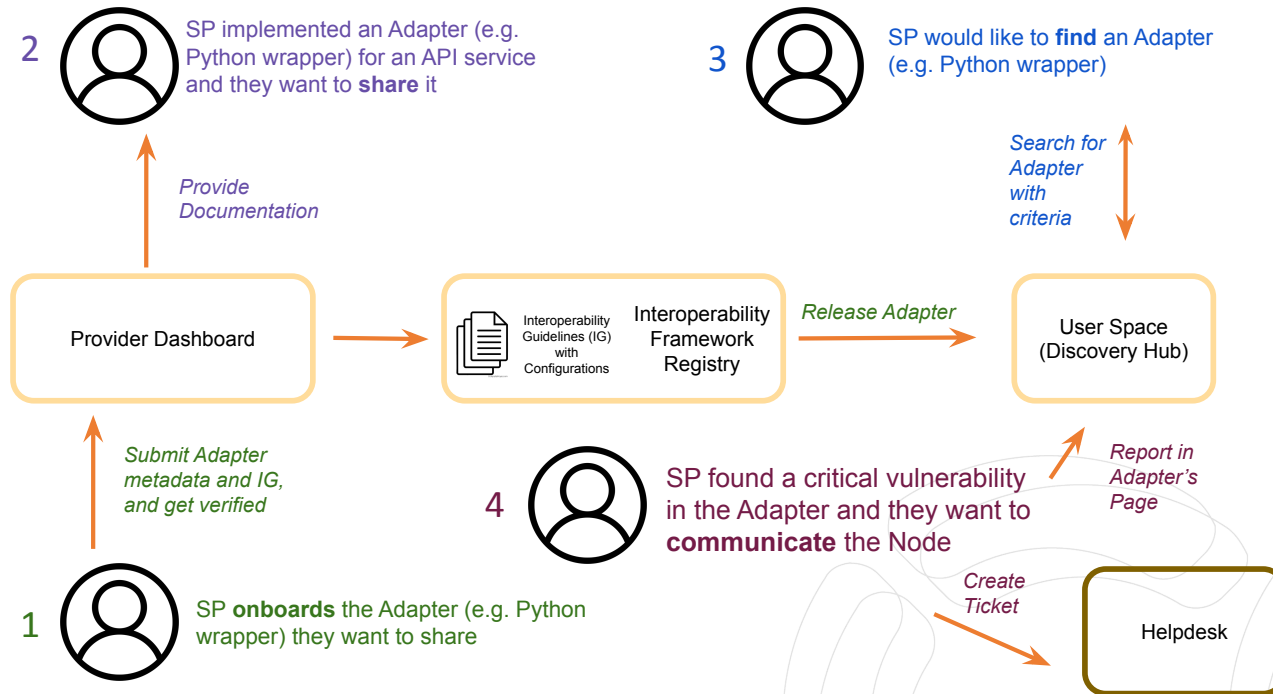
**Discovery and Access
Services**

[Documentation Hub](#)

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

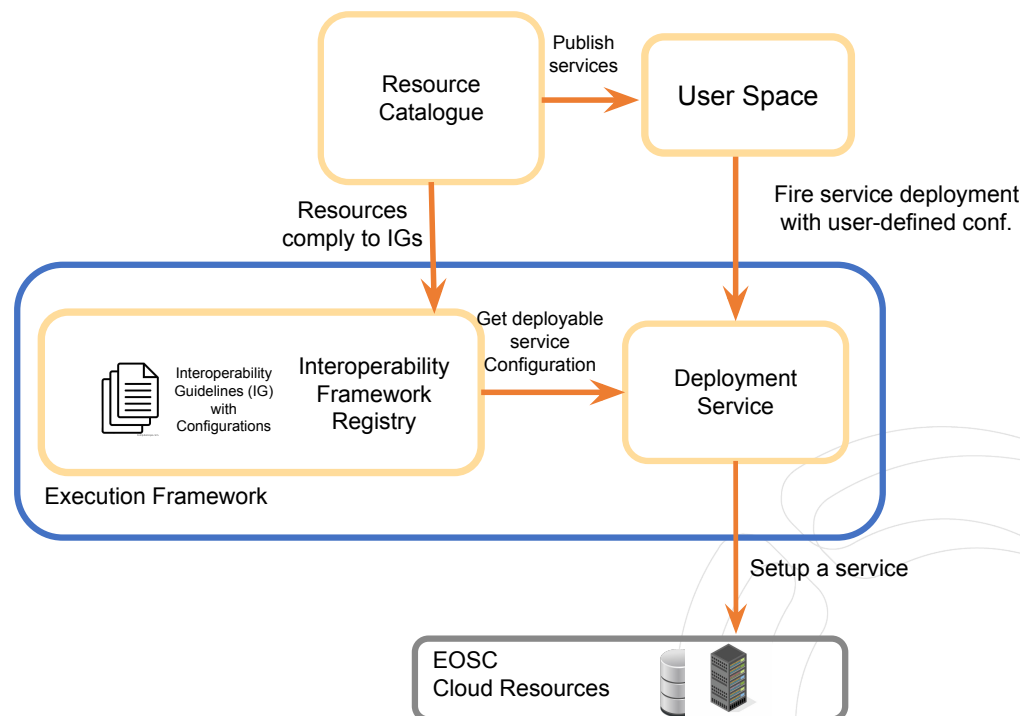
Integration Suite - Make services work together

- 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

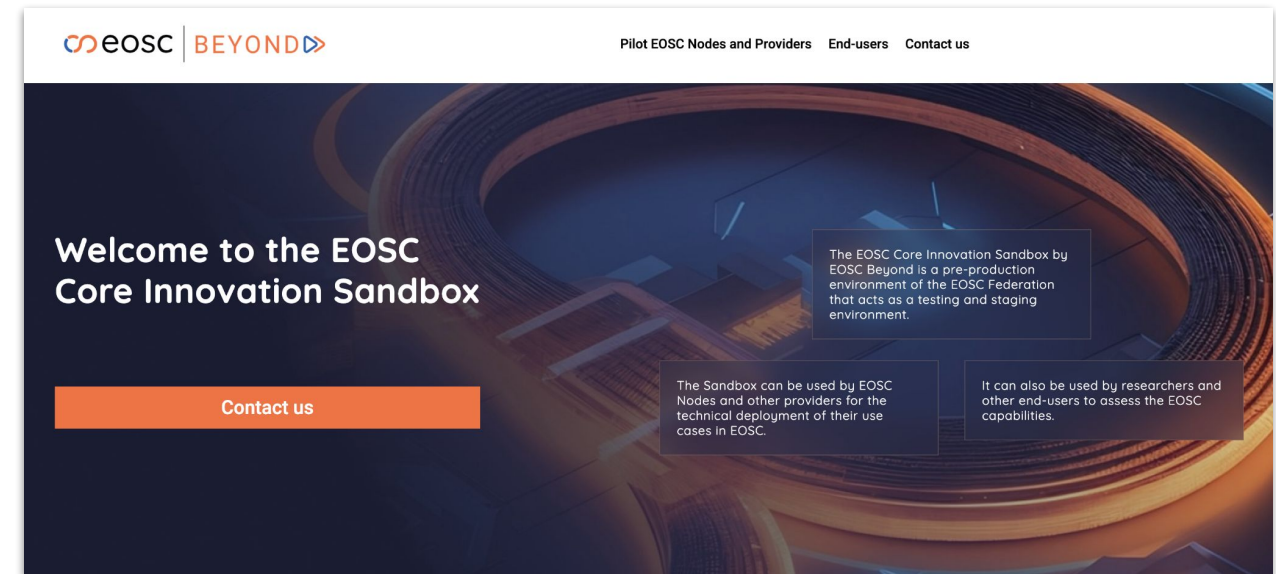


A **Test Environment** to develop and validate your Node before joining the EOSC Federation



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



sandbox.eosc-beyond.eu/

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

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
- **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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