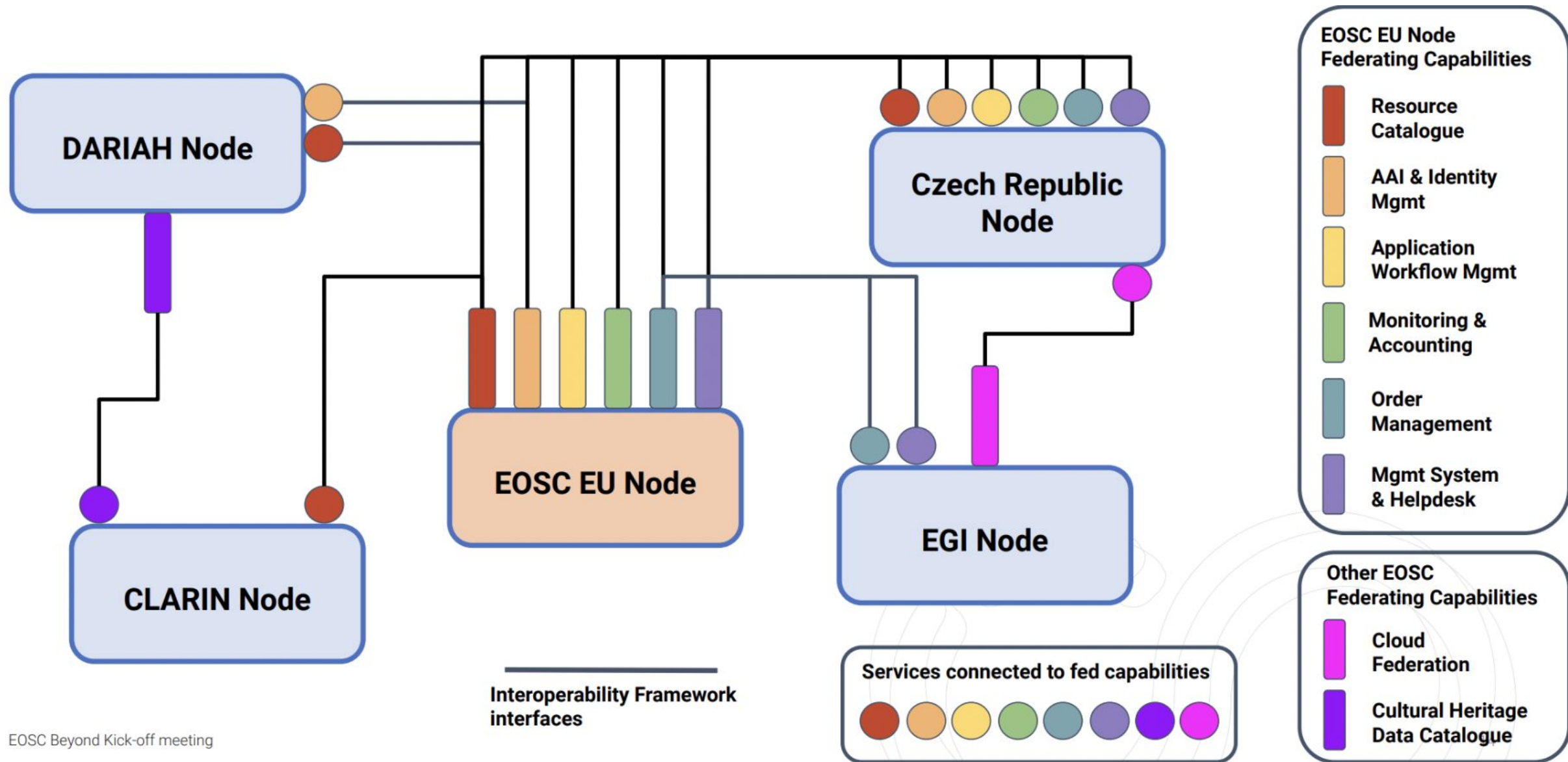


# Empowering Open Science: EGI Community's Impact on EOOSC.

## Introduction





## National & Regional

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

## Data Spaces

1. CESSDA
2. ENES Data SPace

## e-Infra

1. EGI

## Thematic

1. Environmental (LifeWatch)
2. Health and Food (METROFood-RI)
3. Structural Biology (Instruct-ERIC, CNB-CSIC)
4. Social and Human Sciences (CESSDA, CLARIN, DARIAH)



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**EOSC EU Node**







EOSC Pilot Node Technical Template	
<b>Node Name</b>	
<b>Node legal entity name</b>	
<b>Node legal representative/signing person</b>	
<b>Entity type</b> (i.e. Research Infrastructure, National infrastructure, e-Infrastructure, Data Space, etc)	
<b>Countries</b> building/delivering in the pilot Node (list the countries only)	
<b>Entities participating in the EOSC Node</b> - Institutional level list of entities (legal or non-legal)	
<b>Node type</b> (i.e. thematic, national, regional, e-infra)	
<b>Scope of the Node</b> (provide a solid description)	
<b>Scientific disciplines supported by the Node</b> <a href="https://confluence.egi.eu/display/EGI/Scientific+Disciplines?">https://confluence.egi.eu/display/EGI/Scientific+Disciplines?</a> Please use appropriate values from the standard above. In addition, list any other scientific discipline, if it's not included in the standard.	
<b>Node representative contact</b>	
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CORE SERVICE	PILOT NODE									
	EGI Pilot Node	Instruct-ERIC	LifeWatch	NI405	e-INFRA CZ	NFDI	METROFOOD-RI	CESSDA	CNB-CSIC	ENES
AAI	Pre-Integrated	Pre-Integrated	Planned	Pre-Integrated	Planned	Planned	Planned	Planned	Possibly	Planned
Service Accounting	Planned	Not applicable	Not applicable	Planned	Planned	Planned	Not applicable	Not applicable	Possibly	Planned
Service Monitoring	Pre-Integrated	Pre-Integrated	Planned	Planned	Pre-Integrated	Planned		Planned	Pre-Integrated	Planned
Research Product Accounting	Planned	Not applicable	Not applicable	Planned	Not applicable	Not applicable	Not applicable	Not applicable	Possibly	Not applicable
Resource Catalogue	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned
Order Management	Planned	Not applicable	Not applicable	Planned	Not applicable	Not applicable		Not applicable	Not applicable	Not applicable
Helpdesk	Planned	Planned	Planned	Planned	Pre-Integrated	Planned	Planned	Planned	Pre-Integrated	Not applicable
PID Service	Planned	Planned	Not applicable	Planned	No idea	Not applicable		Planned	Planned	Planned
Marketplace	Not applicable	Planned	Planned	Planned	No idea	Planned		Pre-Integrated	Planned	Not applicable
Interoperability Framework Registry	Pre-Integrated	Not applicable	Pre-Integrated		No idea	Planned		Planned		Not applicable
Messaging System	Pre-Integrated		Pre-Integrated		Not applicable	Planned		Not applicable		Not applicable



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CORE SERVICE	PILOT NODE									
	EGI Pilot Node	Instruct-ERIC	LifeWatch	N40S	e-INFRA CZ	NFDI	METROFOOD-RI	CESSDA	CNB-CSIC	ENES
AAI	Pre-Integrated	Pre-Integrated	Planned	Pre-Integrated	Planned	Planned	Planned	Planned	Possibly	Planned
Service Accounting	Planned	Not applicable	Not applicable	Planned	Planned	Planned	Not applicable	Not applicable	Possibly	Planned
Service Monitoring	Pre-Integrated	Pre-Integrated	Planned	Planned	Pre-Integrated	Planned		Planned	Pre-Integrated	Planned
Research Product Accounting	Planned	Not applicable	Not applicable	Planned	Not applicable	Not applicable	Not applicable	Not applicable	Possibly	Not applicable
Resource Catalogue	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned
Order Management	Planned	Not applicable	Not applicable	Planned	Not applicable	Not applicable		Not applicable	Not applicable	Not applicable
Helpdesk	Planned	Planned	Planned	Planned	Pre-Integrated	Planned	Planned	Planned	Pre-Integrated	Not applicable
PID Service	Planned	Planned	Not applicable	Planned	No idea	Not applicable		Planned	Planned	Planned
Marketplace	Not applicable	Planned	Planned	Planned	No idea	Planned		Pre-Integrated	Planned	Not applicable
Interoperability Framework Registry	Pre-Integrated	Not applicable	Pre-Integrated		No idea	Planned		Planned		Not applicable
Messaging System	Pre-Integrated		Pre-Integrated		Not applicable	Planned		Not applicable		Not applicable

Are you willing to share your AAI (users data) data with the other nodes?														
	EGI Pilot Node	Instruct-ERIC	LifeWatch	N40S	e-INFRA CZ	NFDI	METROFOOD-RI	CESSDA	CNB-CSIC	ENES	EU Node	ENVRI	Clarín	SSHC
EGI Pilot Node	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint
Instruct-ERIC	Under restriction		Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction
LifeWatch	Under restriction	Under restriction		Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction
N40S	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction
e-INFRA CZ	Yes	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Yes	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint
NFDI	Yes	Under restriction	Under restriction	Under restriction	Under restriction	Yes	Under restriction	Under restriction	Under restriction	Under restriction	Yes	Under restriction	Under restriction	Under restriction
METROFOOD-RI	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction		Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction	Under restriction
CESSDA	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint	Through normal processes for sharing AAI data under AARC blueprint
CNB-CSIC	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ENES	Yes	No	No	No	No	No	No	No	No		Yes	No	No	No



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EOSC EU Node						
Service/Capability	Node name	Level of integration	Use case	Comment	Timeline	Any other remarks
		<b>CESSDA</b>	<i>Describe what part of the node Exchange resources are in the scope of chosen status and forseen results from the user perspective*</i>	<i>Describe how a specific user or group of users will interact with a system or service to achieve a particular goal</i>	<i>A short explanation why the service will not be integrated (complete only if applicable)</i>	<i>Point out the month of the BEYOND project when integration becomes achievable</i>
File Sync and Share	Planned	Partial integration for organizations within a Node			M18	
Interactive Notebooks	Planned	Integrate eg. Jupyter Hub to be enable users to			M35	
Large File Transfer	Planned	Partial integration to enable secure transfer of research			M18	
Virtual Machines	Not applicable			No need.. For current services "Cloud containers"	NA	
Cloud Container Platform	Planned	Migrate current development and staging			M18	
Bulk Data Transfer	Not applicable			File sync and share and Large File Transfers should	NA	





Pilot Name	User Story of highest priority	User journey	Core Service involved	Exchange service involved
EGI Node	As a researcher I want to <b>access computing resources</b> so that I can run molecular dynamic simulations to characterise perovskite materials. My research group at the university would need to have access to the model and evaluate the results.	<ol style="list-style-type: none"> <li>1. Research scientist would need to register in the EGI node with an EGI recognised identity provider. (EGI NODE service CHECKIN)</li> <li>2. Researcher would need to request from the service catalogue and order management system the type of computational and storage resources e.g. Cloud /HPC (EU Node service order management )</li> <li>3. The order would be processed and a cloud /HPC /storage provider would be identified with the capacity requested by the user. Cloud /storage provider would (Cloud and storage federated service )</li> <li>4. A Virtual Organisation is created and members of the research scientist team are added</li> </ol>	AAI, Order Management	Storage, Compute
	As an IT administrator I want to synchronise monitoring data of services through my Node with the EU Node monitoring system so that we can control our services' SLAs fulfilment	<ol style="list-style-type: none"> <li>1. IT administrator requests monitoring schema used by the EU monitoring node.</li> <li>2. IT administrator ensures that monitoring data from the services are made available to the monitoring (e.g. service uptime)</li> <li>3. IT administrator ensures that the EGI Node is authenticated (Federated AAI) with the monitoring service of EU Node.</li> <li>4. Monitoring data (uptimes) are consumed by ARGO.</li> <li>5. EGI Node provides Service Performance Reports to Services Providers to inform them of fulfilment with SLAs</li> </ol>	Service Monitoring, AAI	
	As EGI Foundation I want to support the RI's to scale up computing capacity (providing resources, training, know-how) so that RI users can capitalise on data and compute colocation to train AI models	<ol style="list-style-type: none"> <li>1. EGI assembles "pools" of similar resources across multiple providers (e.g. certain kinds of cloud compute, storage, HPC, etc.)</li> <li>2. "Virtual Access" scheme is organized so that user access and ordering work automatically</li> <li>3. Distinct pools of resources are listed in resource catalogue, not as individual endpoints/servers, but using AWM orchestration as front end.</li> <li>4. Specific deployment recipes are designed and put into Tools Market (part of Marketplace) and linked to data analytics and AI algorithms (e.g. containers) that are also in the Marketplace.</li> <li>5. User Notes/Training is linked to algorithms in the Marketplace to guide users in how to use.</li> <li>6. Researchers must select input data, use Data Transfer services to move to File Synch and Share resources accessible to required Cloud Compute or Virtual Machine resources from the pools</li> <li>7. Containers are split into "data local" and "scale out" components. Data Local components are deployed by AWM on to compute next to storage. Scale out containers can be deployed to non-local compute.</li> <li>8. Final Analytics result is moved to Researcher's designated storage location by Data Transfer service</li> </ol>	Marketplace, Resource Catalogue	Data Transfer, File sharing
	As a researcher I want to understand what is the service offering of the EGI node so that I can concentrate on science and not on the technical set up	<ol style="list-style-type: none"> <li>1. Researcher logs into EGI node (CHeckin). Log in provides attributes</li> <li>2. Researcher accesses marketplace for EGI Node. Selects "filter by my credentials"</li> <li>3. Marketplace displays resources to which researcher has access</li> <li>4. Related training and comments/reviews(?) from other users help me assess possible resources for their suitability to my needs</li> <li>5. Researcher can "like" or otherwise keep track of resources of interest for possible future use.</li> <li>6. Liked resources are used by Marketplace to suggest similar resources, or to notify about changes to resources I have already tagged.</li> <li>7. Researcher access order management service to get access to specific resources. Details about these resources are stored in researchers "shopping cart" for ease of future use.</li> <li>8. Combinations of Ordered resources might be flagged as interoperable and "wizards" are available to get them set up and ready to use.</li> </ol>	AAI, Marketplace, Order Management	Open research data, Data sources



## Distributors/Capabilities Offered

### ENES

#### ENES

- Thematic Catalogue

#### ENES

- Provenance service

### Instruct-ERIC

#### Instruct-ERIC

- Resource Catalog

#### Instruct-ERIC

- AAI

#### Instruct-ERIC

- Order Management

## Consumers/Capabilities to Take

### ENES

#### ENES

- Resource Catalogue

#### EU Node

- Resource Catalogue

#### ENES

- AAI

#### EGI Pilot Node

- AAI

#### ENES

- Monitoring

#### EGI Pilot Node

- Monitoring

#### ENES

- Accounting

#### EGI Pilot Node

- Accounting

#### ENES

- PID Service

#### EU Node

- PID Service

#### ENES

- Orchestration Service

#### EGI Pilot Node

- Orchestration Service

#### ENES

- Cloud Federation

#### EGI Pilot Node ???

- Cloud Federation

### Instruct-ERIC

#### Instruct-ERIC

- Monitoring

#### EU Node

- Service Monitoring

#### Instruct-ERIC

- Accounting ?

#### EU Node

- Service Accounting

Maybe

#### Instruct-ERIC

- Helpdesk

#### EU Node

- Helpdesk

#### Instruct-ERIC

- Messaging ?

#### EGI Pilot Node

- Messaging System

Maybe

#### Instruct-ERIC

- PID Service

#### EU Node

- PID Service

#### Instruct-ERIC

- Storage

#### LifeWatch

- LifeBlock/storage





## EOSC Beyond's Roadmap for Data Spaces and Node Integration

Discover our deliverable D15.1, outlining integration plans for Data Spaces and Pilot EOSC Nodes, in...

[Read more](#)

August 19, 2024

Published August 1, 2024 | Version 1 Under EC Review

Project deliverable [Open](#)

### EOSC Beyond D15.1 Service integration plans of the Data Spaces and EOSC Nodes

Lechowska-Winiarz, Katarzyna; Wilk, Roksana; Gutiérrez, Marta

EOSC Beyond builds on Pilot Nodes activities to enhance and validate the EOSC Core functionalities and evolve the EOSC Federation model. This deliverable presents the outcomes of the interviews and workshops carried out with the Pilot Nodes during the early phase of the project to deliver a service integration plan driven by real, science-based user stories.

#### Files

EOSC Beyond D15.1 V1 Public Under EC Review.pdf

Page: 1 of 60 Automatic Zoom

Published August 1, 2024 | Version 1

Report [Open](#)

### EOSC Beyond D15.1 - Complementary Annex

Lechowska-Winiarz, Katarzyna; Wilk, Roksana; Gutiérrez, Marta; Dietrich, Mark; Povey, Marcus; de Jong Leung, Yvonne; Fiore, Nicola; Mishev, Anastas; Šustr, Zdeněk; Ruda, Miroslav; Wetzel, Tim; Apweiler, Sander; Bundke, Ulrich; Winkers, Marvin; Czach, Joanna; Presser, Karl; Żotyńia, Anna; Shepherdson, John; Vodopijevec, Alen; Simon, Carolina; Sanchez, Irene; Carazo, Jose Maria; Antonio, Fabrizio; Fiore, Sandro

Complementary Annex for EOSC Beyond deliverable D15.1.

#### Files

EOSC Beyond D15.1 Supplementary Annex V1 Public.pdf

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Version 1 Under EC Review Aug 1, 2024  
10.5281/zenodo.13152335

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10.5281/zenodo.12819857

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Put your name, if u want to answer one of the questions below during the session. This slide should be hidden

- 1 From the previous EOSC to the Nodes , tell us what you think about the transition (5)
- 2 Expectations from the federation (wishes, crystal ball ) , what would you bring forward , what would you leave behind (5 min)
- 3 How to go beyond target communities (is this good /bad ) , how do you serve users that don't know you. (5 min)

## Get in touch with us

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

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