

Enabling Open Science Discussing NREN Research Data Management Needs

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- The EUDAT Collaborative Data Infrastructure (EUDAT CDI) is one the major e-infrastructures supporting research in Europe
- EUDAT is a membership organisation supported by EUDAT Ltd., a not-for-profit company
- It is a growing network of over 20 European organizations

EUDAT's vision: Data is shared and preserved across borders and disciplines







According to the vision, EUDAT provides:

- a trusted environment for European researchers from any research discipline to preserve, find, and access data
- a set of interoperable data management services that support European researchers in different steps of the research data life cycle and the process of making their data FAIR
- essential infrastructure services such as storage and long-term preservation to support the capacity scaling of research infrastructures
- consultancy and training services to support organisations in their endeavour to build reliable, trustworthy and FAIR enabling data infrastructures

EUDAT service suite





EUDAT service suite

B2FIND

Find Research Data

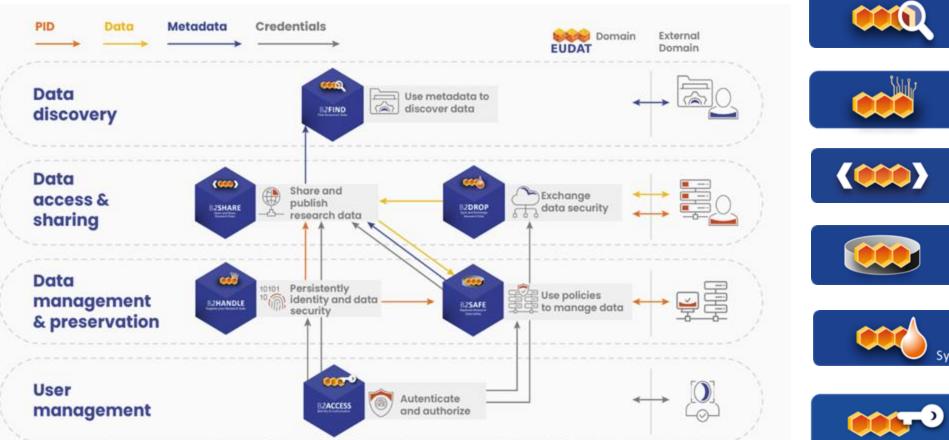
B2HANDLE

Register your Research Data

B2SHARE

Store and Share Research Data

B2SAFE Replicate Research Data Safely

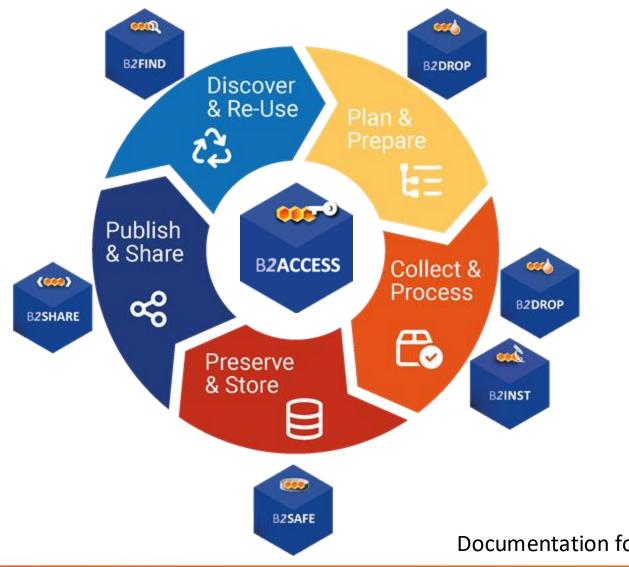


B2DROP Sync and Exchange Research Data

Documentation for all services available at: <u>https://docs.eudat.eu</u>



What EUDAT offers





Documentation for all services available at: <u>https://docs.eudat.eu</u>

TNC 2025



Providing services to NRENs

Storage service for active data a HEAnet testimony

Robert Sabatino





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EUDAT engagement model



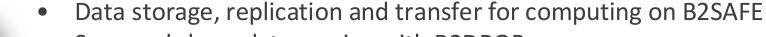
- EUDAT services are designed and implemented to be generic and be used in any scientific domain
 - We currently serve users from 17 different scientific domains
- Services can be used individually or in combination
- Services can be integrated in communities workflows





Different strategies for different usage scenarios

- For end-users and single researchers
 - Access to generic services (i.e. B2DROP, B2SHARE, B2FIND)
- For data managers of communities and projects



- Sync and share data service with B2DROP
- Registration of prefixes and hosting of PIDs with B2HANDLE
- Community specific metadata and collections in B2SHARE
- Harvesting of community repositories in B2FIND
- Dedicated instances can be created and provided
- For research organisations and research infrastructures
 - Contracted customised services or solutions
 - Make use of our expertise

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Free access

Pay per use

Pay per use



- NRENs can make use of services provided by EUDAT for their users
 - Besides the central instances, dedicated instances can be deployed and provided
 - Dedicated solutions can also be discusses and configured to meet specific requirements
 - Customers can be the individual universities or NREN as broker
 - Support to users is provided by EUDAT providers as part of the service offering

 Collaboration with NRENs can also be achieved via joint participation to EU funded projects



Any organisation can join as a service provider (CDI Nodes), as long as it satisfies a set of technical requirements. A service provider can join as an interoperable or integrated node

Process

- 1. Apply @ eudat-cdi-secretariat@postit.csc.fi
- 2. Membership evaluation and approval by CDI Council
- 3. Sign CDI Collaboration Agreement
- 4. Agree to comply with EUDAT Service Management Framework (SMF) and the EUDAT CDI Model



Generic Service Providers have regional, organizational or national mandates to support scientific research, usually from different disciplines.

Thematic Service Providers are discipline-specific organisations mandated to support a well-defined scientific community or group of customers and users.

Interoperable CDI node

- Must (or plan to) have a data repository
- Commitment to provide in kind contribution on some of EUDAT activities

Integrated CDI node via one of the following

- provide services through EUDAT Ltd, and sign the service distribution agreement for the relevant services;
- run a central EUDAT service or service component as part of the EUDAT CDI infrastructure, and sign the relevant OLA
- run an EUDAT service or service component, on behalf of EUDAT CDI, as part of a collaboration project or initiative (e.g. EC project), and sign the relevant OLA





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The future of EUDAT: Becoming one of the main building block of the EOSC Federation

EUDAT



- European Open Science Cloud (EOSC) aims to provide researchers and innovators in Europe with an open and trusted multi-disciplinary environment where they can publish, find and reuse data, tools and services for research and innovation.
- Steps are being taken to realise the objective to establish EOSC as a federated system of systems for sharing of research data and digital resources across Europe.
- The EOSC EU Node, procured by the EC, was launched in October 2024.
 - It is the first node of the EOSC Federation, providing a set of data, tools and services to researchers across Europe.
 - It serves as reference node and facilitates the interconnection of other nodes in the EOSC Federation.



- Engagement and inclusion of other nodes is currently being pursued to expand the EOSC Federation for the benefit of researchers.
- 13 candidate nodes have been selected to be part of the first build-up phase





- Involved in structuring EOSC since in inception via projects either directly or indirectly through its members: EOSC Pilot, EOSC-Hub, EOSC-Enhance, EOSC-Future, DICE, EOSC Beyond, EOSC Entrust, FAIRCORE4EOSC, FAIR IMPACT
- Involved in EOSC related WGs: EOSC Architecture WG, EOSC Interoperability TFs, EOSC PID TF, EOSC Opportunity Areas
- EUDAT ambition: propose a transnational collaborative FAIR enabling data management space connected with domain specific services

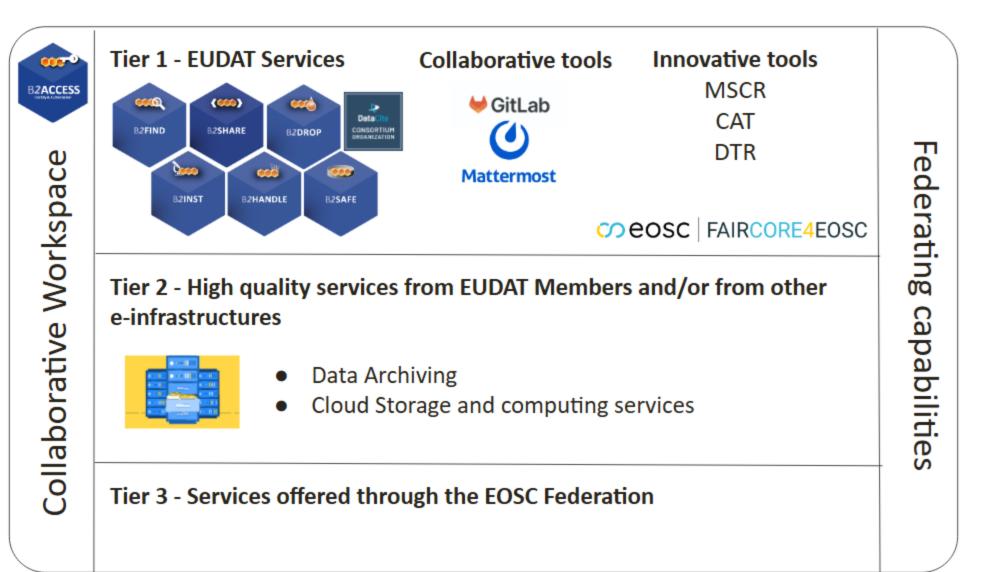




Connecting services to create a unique collaborative environment



- → Access
- → Order
- → Provision
- → Monitor
- → Share
- → Support





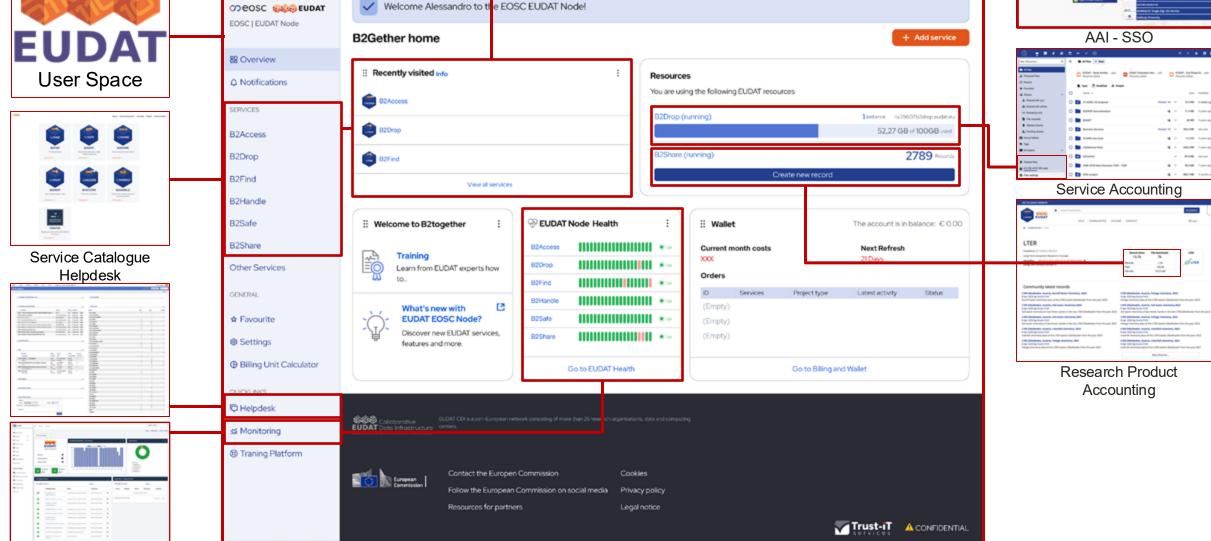
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EUDAT Node Platform - User Space

🚍 B2Access 🚔 B2Drop 🚔 B2Find 🚔 B2Handle 🚔 B2Safe 🚔 B2Share



🕐 😨 Hello Alessandro Petrocelli 🔻



Monitoring

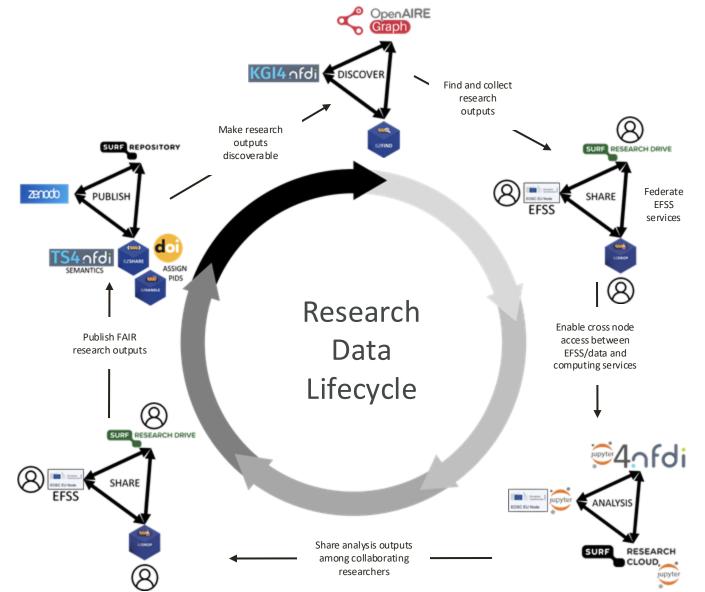


EUDAT Node Platform - User Space

		CO EOSC EUDAT Node	B2Access B2Drop SetFind B2Hande B2Sate B2Sate B2Share Image: B2Access Info Image: B2Access Info										
ſ		88 Overview											
		Q Notifications	s	Info	м	Info	L	Info	XL	Info			
	Order	SERVICES	Available Storage:	500 GB	Available Storage:	1 TB	Available Storage:	2 TB	Available Storage:	4 TB		Resource	
	Management	B2Access	Users: Domain:	20 <x>.mydomain.com</x>	Users: Domain: <y></y>	50 .mydomain.com	Users: Domain:	100 <z>.mydomain.com</z>	Users: Domain:	unlimited <z>.mydomain.com</z>		Provisioning	
	Process	B2Drop	Subdomains: Backups: 1per	1 day for the last 15 days	Subdomains: Backups: Daily backups for	3 the last 20 days	Subdomains:	5 dups for the last 60 days	Subdomains: Backups: Weekly backup	unlimited		TTOVISIONING	
		B2Find	_						_				
		B2Handle	Order	€O	Order	€O	Order	€O	Order	€O			
		B2Safe B2Share Other Services © © B2Find info SCHERAL © © B2Handle info © © B2Find info 							:				
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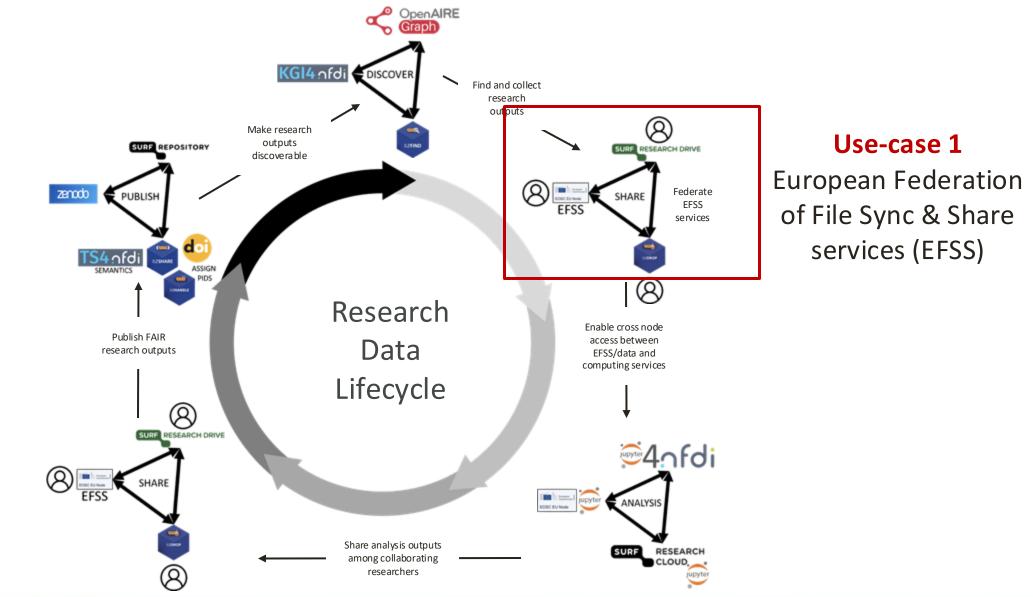


EUDAT Node use cases: support the full research data lifecycle

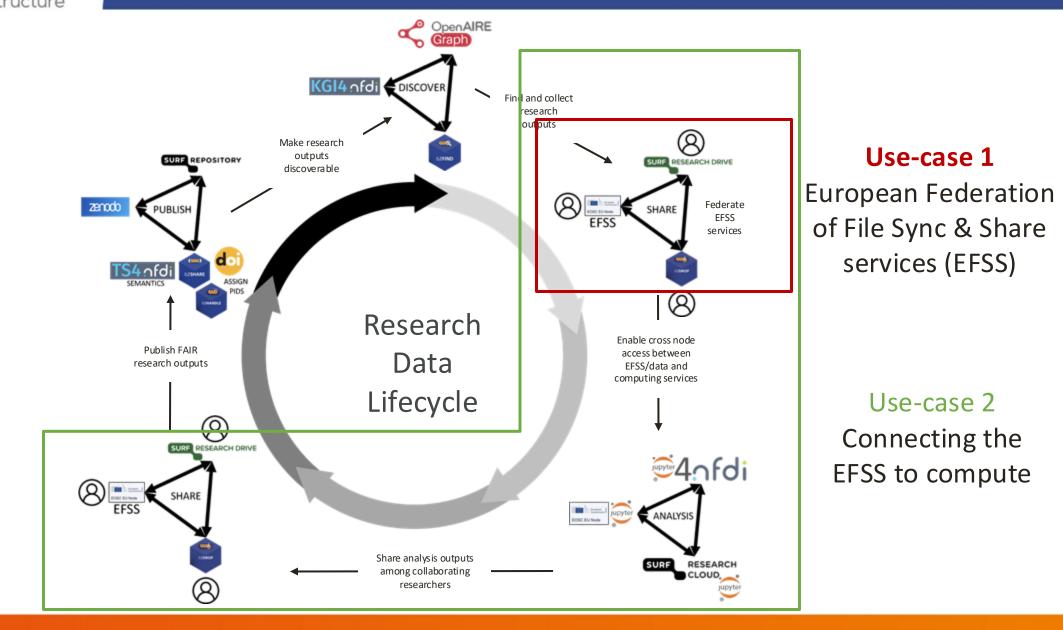




EUDAT Node use cases: support the full research data lifecycle



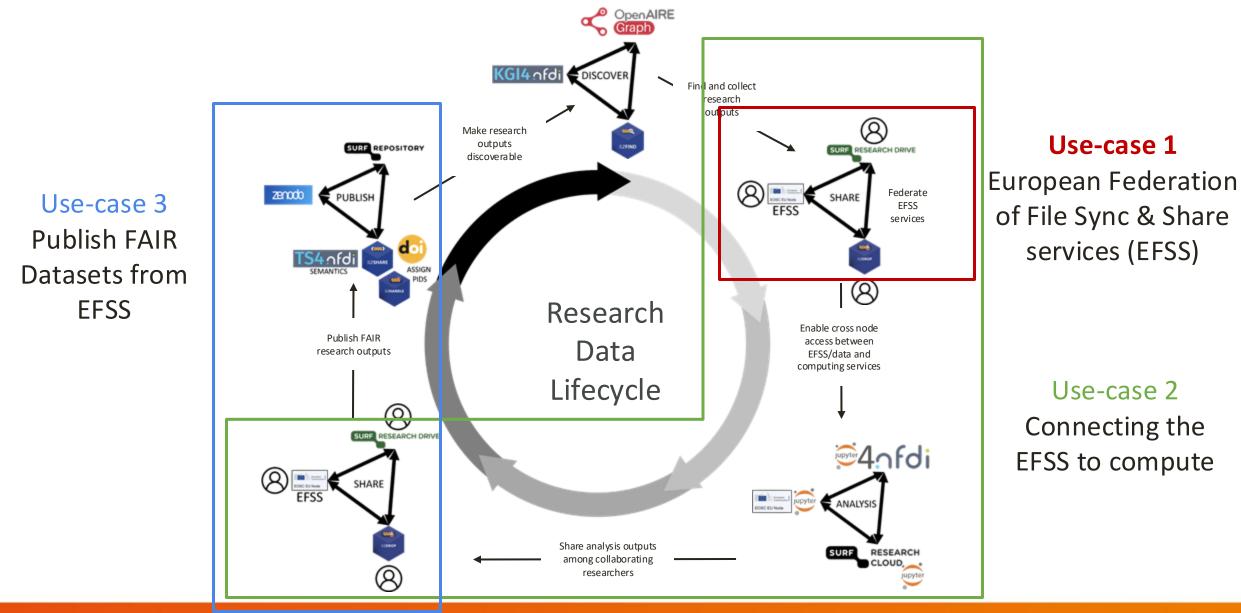
Collaborative EUDAT Node use cases: support the full research data lifecycle



EGI Conference 2025



EUDAT Node use cases: support the full research data lifecycle







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