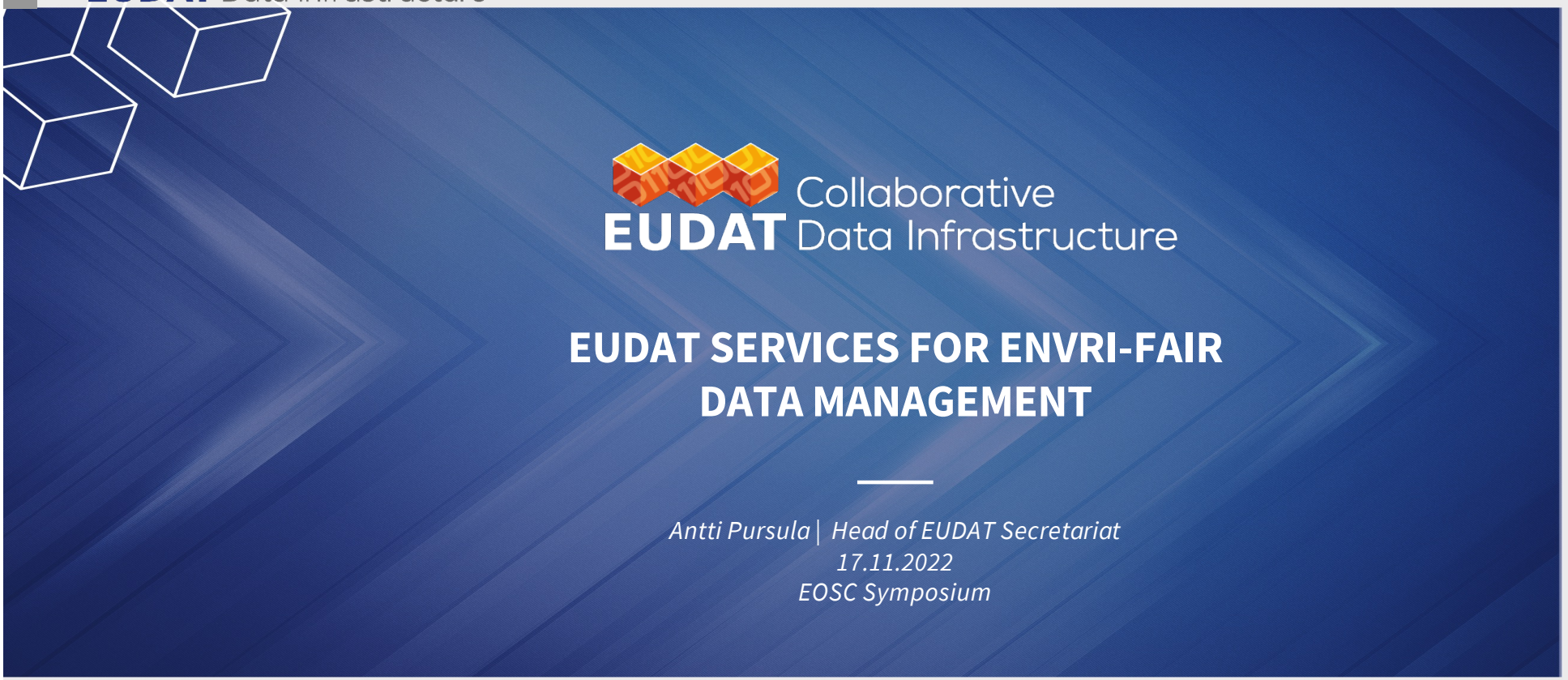
Collaborative
EUDAT Data Infrastructure



EUDAT SERVICES FOR ENVRI-FAIR DATA MANAGEMENT

Antti Pursula | Head of EUDAT Secretariat
17.11.2022
EOSC Symposium

EUDAT CDI in a nutshell

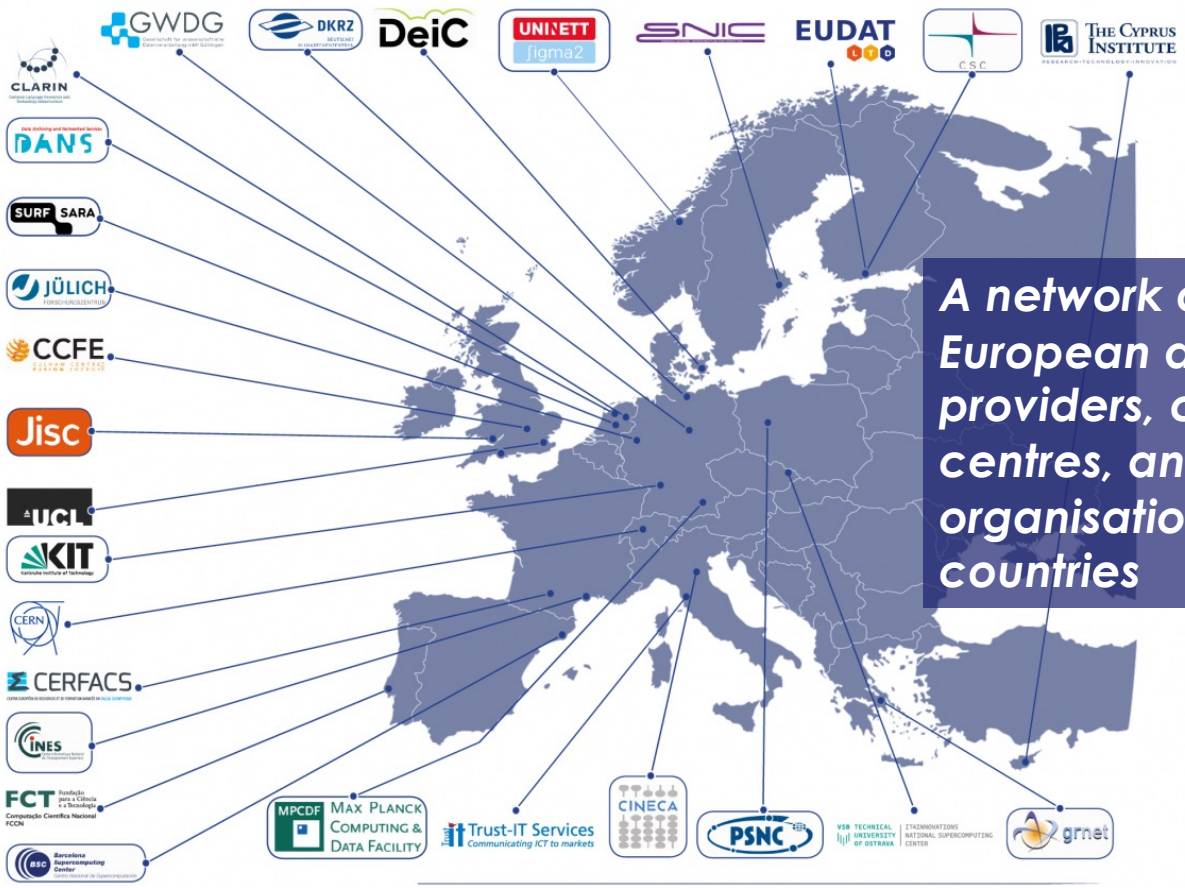
- The EUDAT Collaborative Data Infrastructure (EUDAT CDI) is one the major European e-infrastructure, focusing on **research data management services**
- EUDAT's vision:

Data is shared and preserved across borders and disciplines

- In line with the vision EUDAT operates a set of interoperable services that support European researchers in different steps of the research data life cycle.

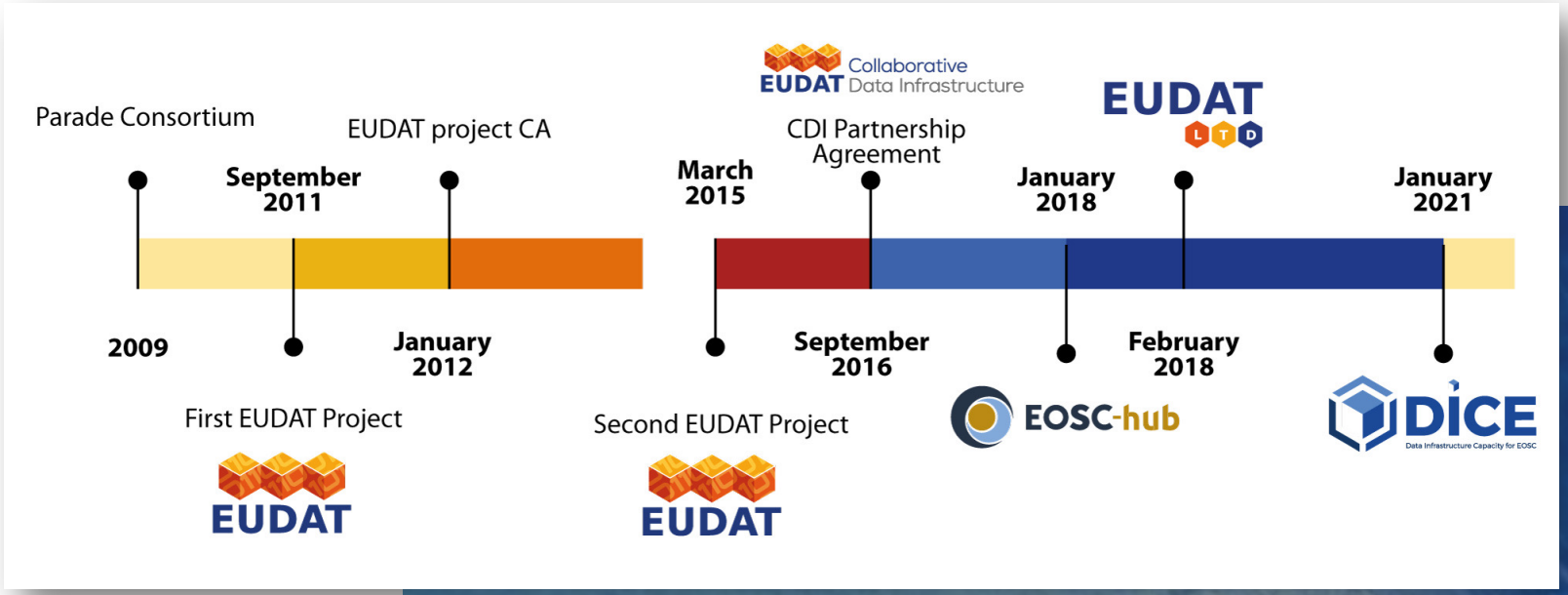
EUDAT Collaborative Data Infrastructure

The EUDAT CDI members

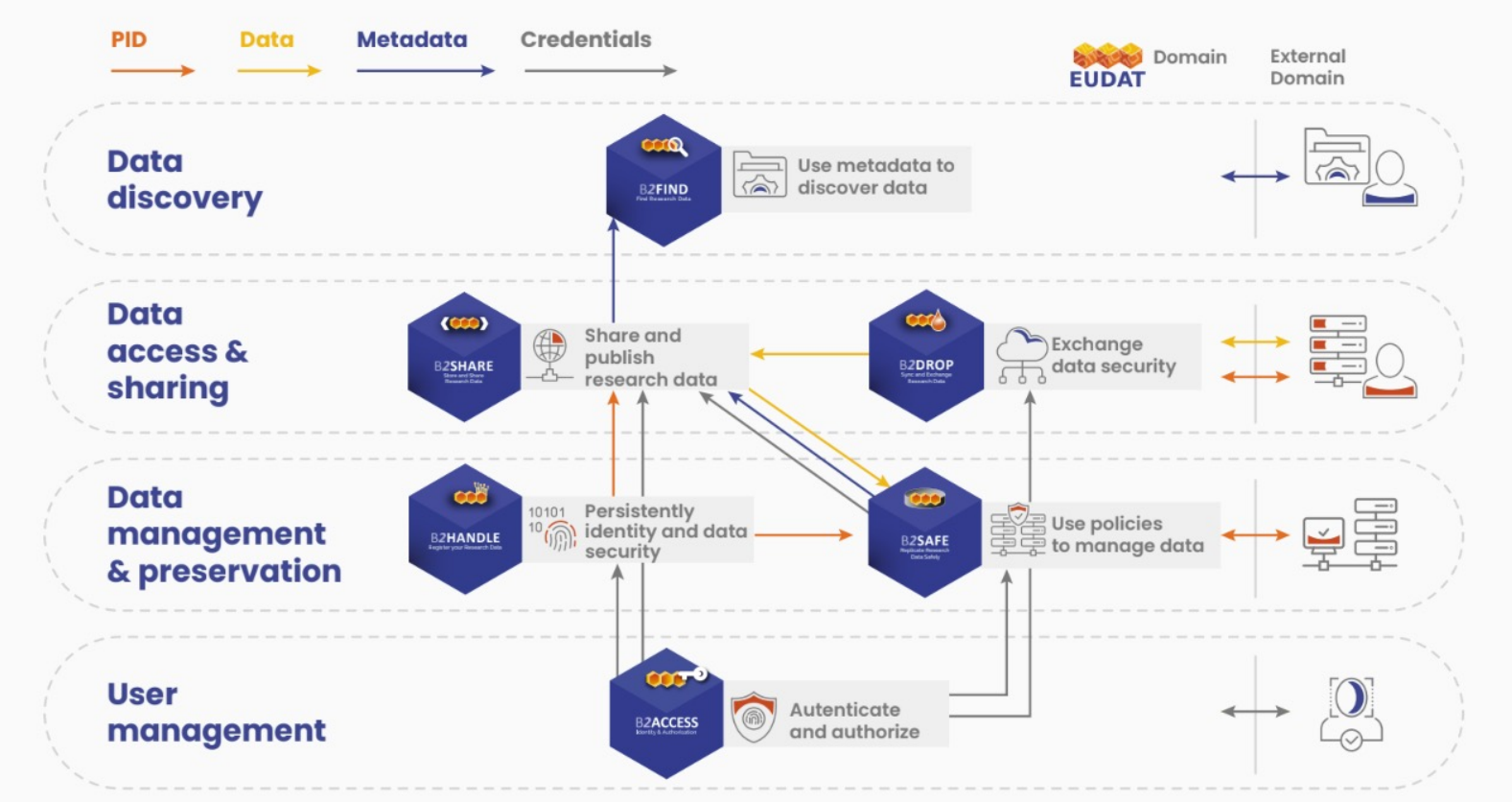


A network of 27 European data services providers, computing centres, and research organisations from 17 countries

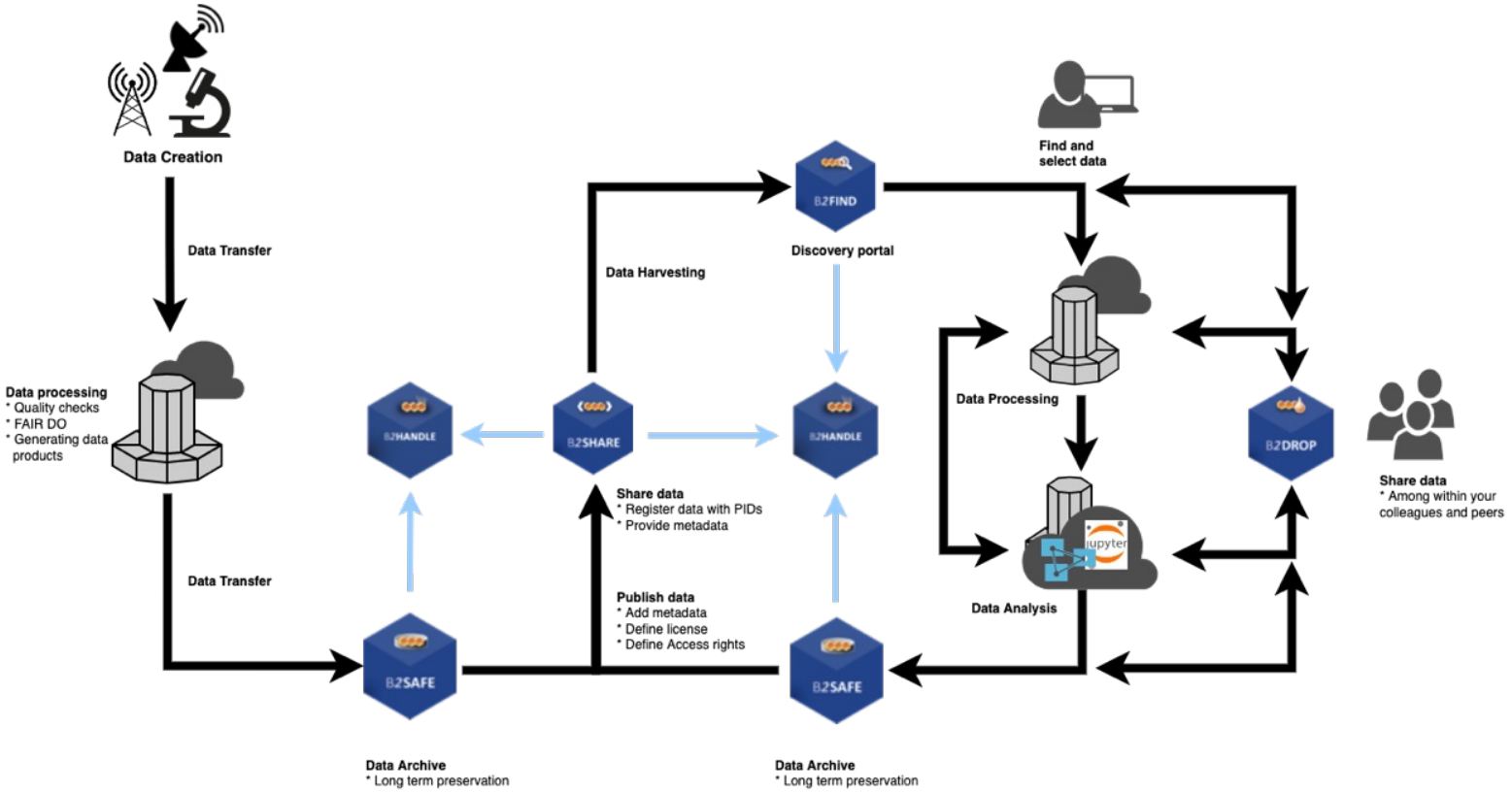
History of EUDAT



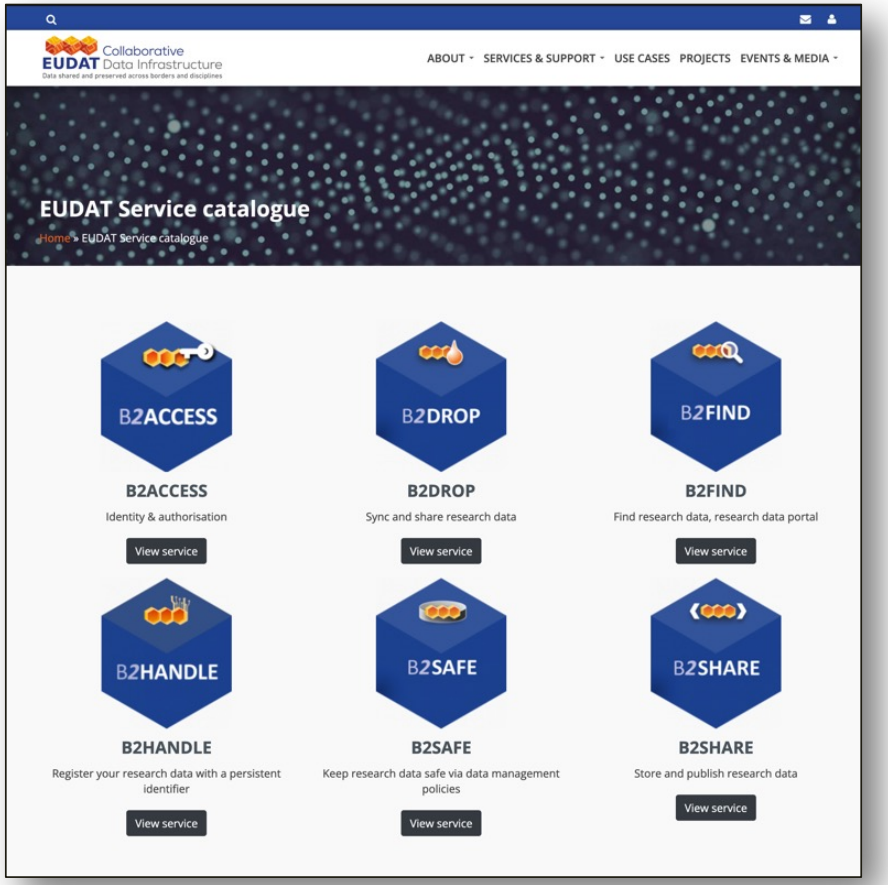
The EUDAT Service Suite



Research Data Life Cycle

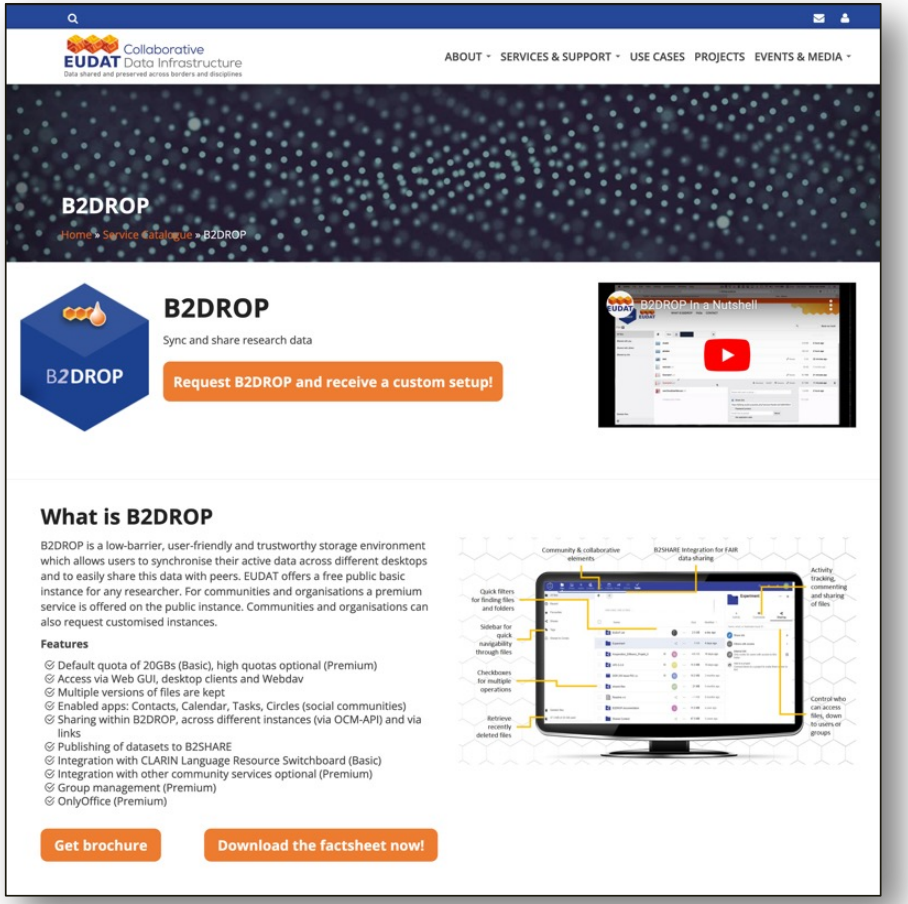


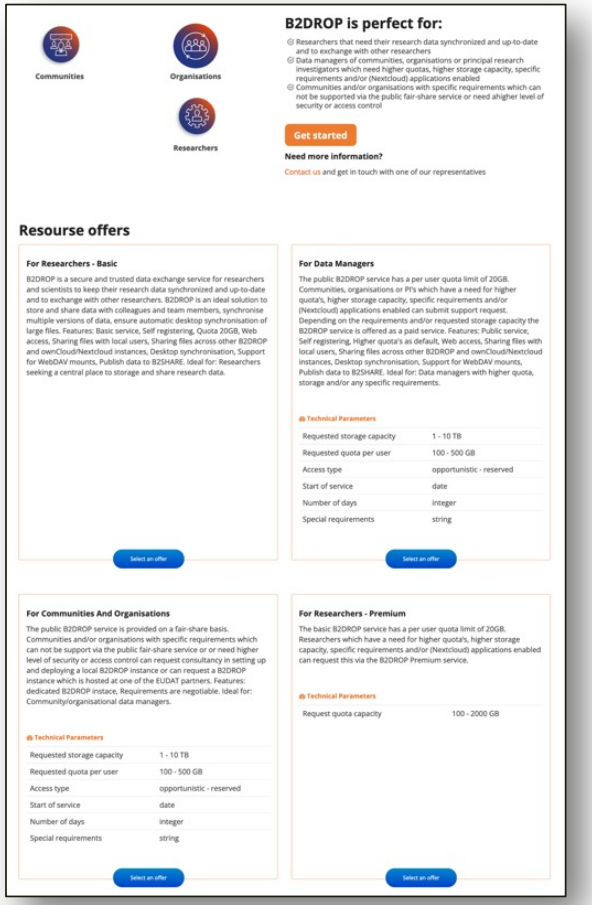
EUDAT Service Catalogue



https://eudat.eu/catalogue

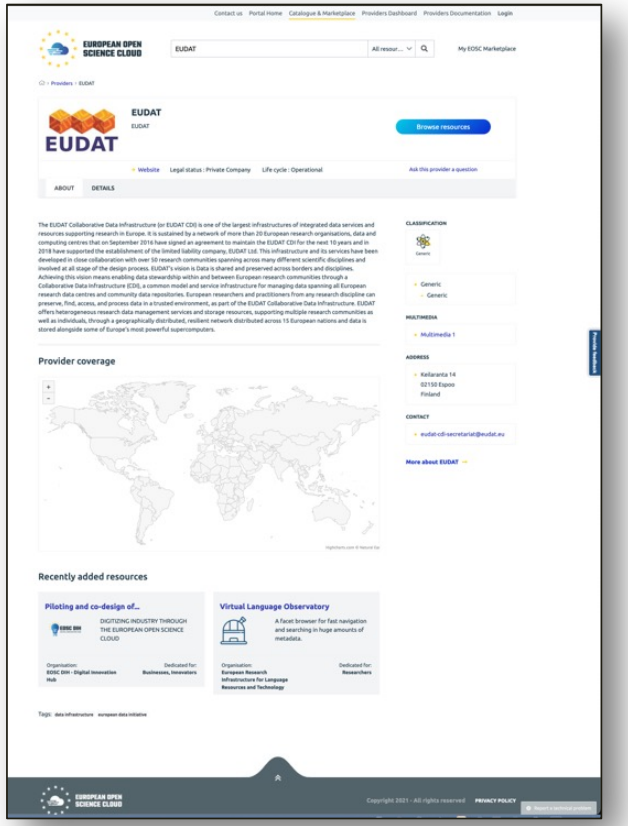
EUDAT Service Catalogue detailed view



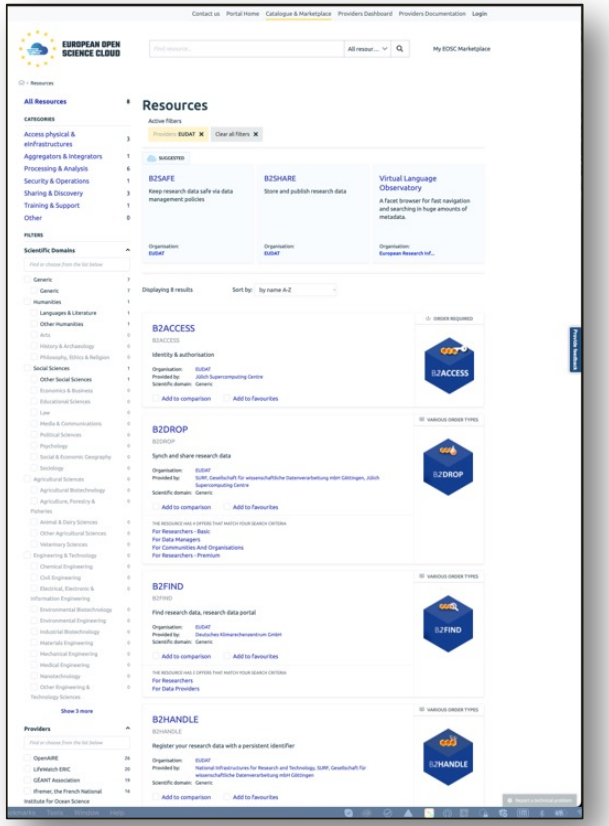


https://eudat.eu/catalogue/b2drop

EUDAT services in EOSC marketplace



https://marketplace.eosc-portal.eu/providers/eudat?q=EUDAT



https://marketplace.eosc-portal.eu/services?providers=2

Use case of ICOS RI

- Safe storage of ICOS data at B2SAFE
- Replication and staging to computing
- Publication of datasets resulting from data analysis

Summary

Consortium: 24 Partners
Coordinator: CINECA

Grant Agreement: 101017207
Call: INFRAEOSC-07-2020

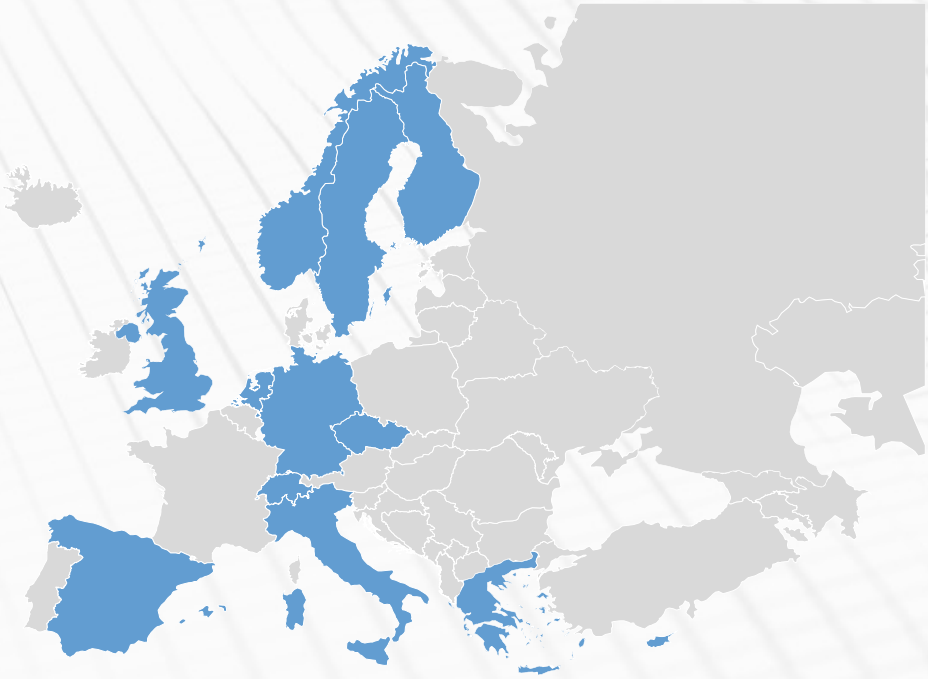
30 months
(1 Jan 2021 – 30 Jun 2023)

Enable a European storage
and data management infrastructure for EOSC
Provide generic services to store, find, access,
and process data in a consistent and persistent way

Budget: € 6.997.706,66

18 providers from 11 European countries are offering
14 state-of-the-art data management services
together with more than 50 PB of storage capacity

Consortium



Service providers

CINECA
JÜLICH Forschungszentrum
CSC
BSC Barcelona Supercomputing Center Centro Nacional de Supercomputación
MPCDF Max Planck Computing & Data Facility
grnet
KIT Karlsruhe Institute of Technology
DKRZ Deutsches Klimarechenzentrum
ETH zürich CSCS Centro Svizzero di Calcolo Scientifico Swiss National Supercomputing Centre
SURF
INFN Istituto Nazionale di Fisica Nucleare
KNAW
DataCite FIND, ACCESS, AND REUSE DATA
SNIC
The Cyprus Institute Research · Technology · Innovation
GWDG Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen
VŠB Technická univerzita Ostrava | IT4Innovations Národní superpočítačové centrum
cesnet
UNINETT
Sigma2

Users' communities

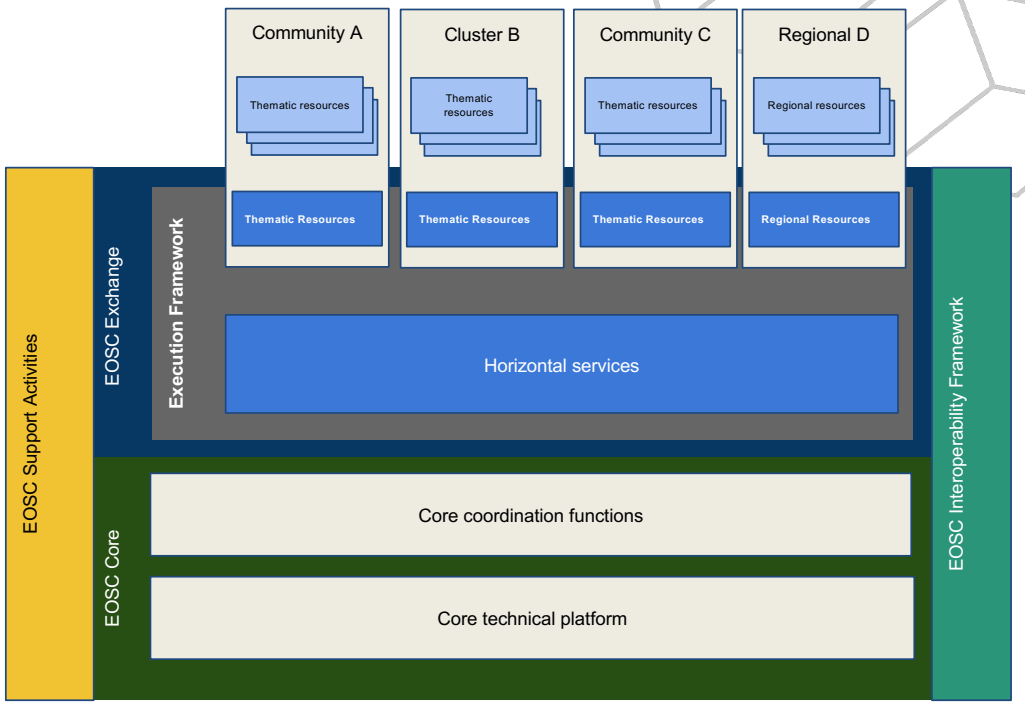
ASTRON
ICOS Carbon Portal
UCL

Outreach & sustainability

Trust-IT Services Communicating ICT to markets
EUDAT

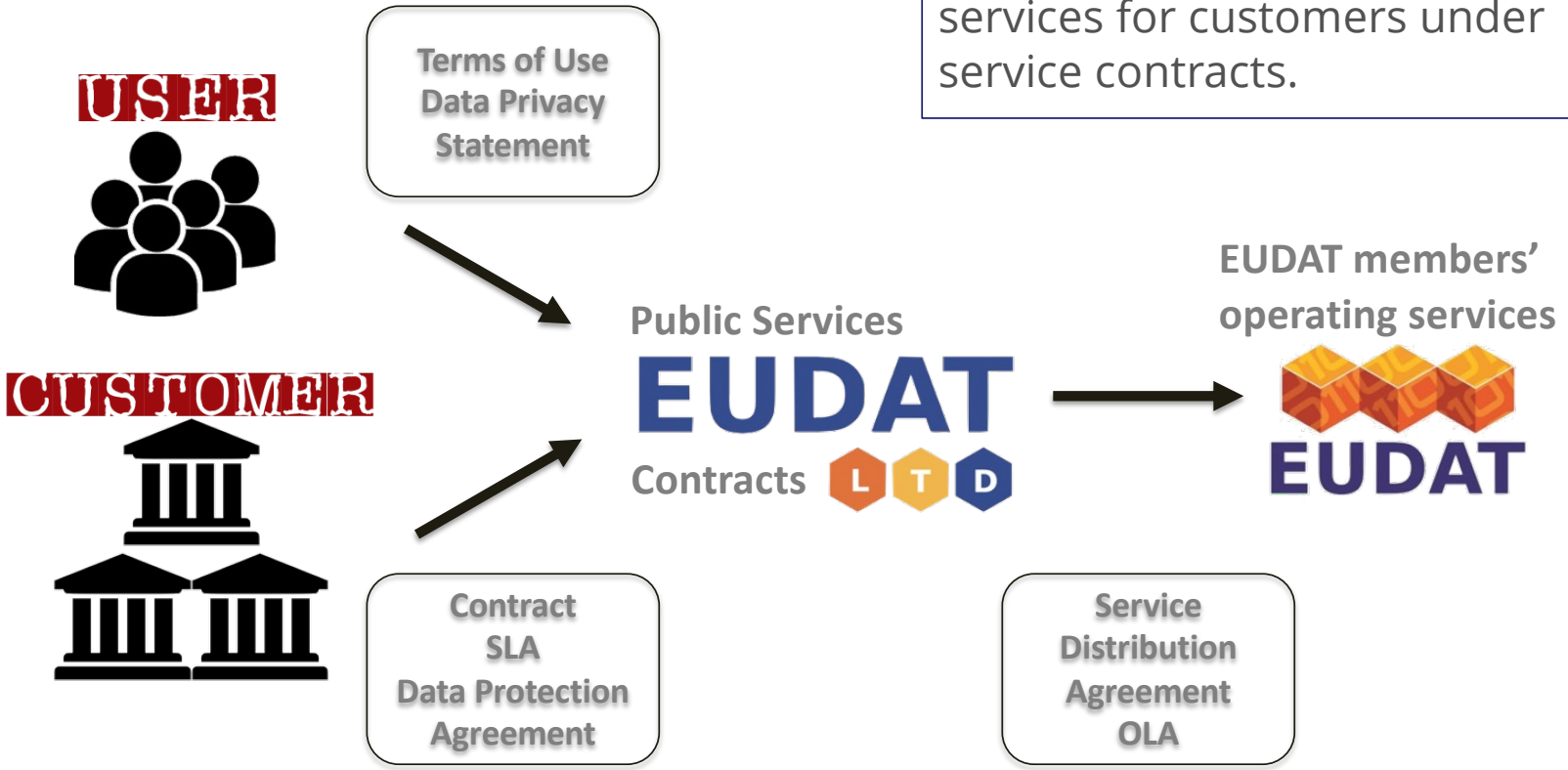
EUDAT and EOSC

- The EUDAT CDI supports the vision of the EOSC in offering open and seamless services for storage, management, analysis and re-use of research data, across borders and scientific disciplines.
- EUDAT provides Horizontal services



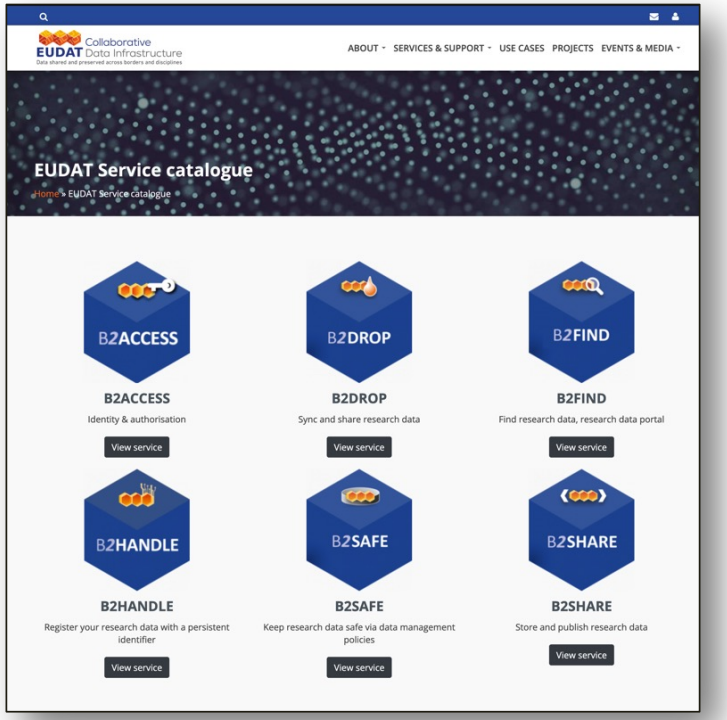
EUDAT service agreements structure

EUDAT provides data management services for customers under service contracts.



Summary

1. EUDAT CDI is sustained and operational e-infrastructure
2. EUDAT provides a service suite that enables FAIR data
3. EUDAT services are part of EOSC Exchange
4. Services can be used standalone, bundled or combined with external platforms
5. Ongoing DICE project facilitates service usage free at the point of use
6. EUDAT offers service contracts for professional data services



Collaborative
EUDAT Data Infrastructure

THANK YOU

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