



DATA INFRASTRUCTURE CAPACITY FOR EOSC

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Project coordinator



The DICE project has received funding from the European Union's Horizon 2020 project call H2020-INFRAEOSC-2018-2020 under Grant Agreement no. 101017207

Summary



Consortium: 24 Partners
Coordinator: CINECA



Grant Agreement: 101017207
Call: INFRAEOSC-07-2020



30 months
(1 Jan 2021 – 30 Jun 2023)



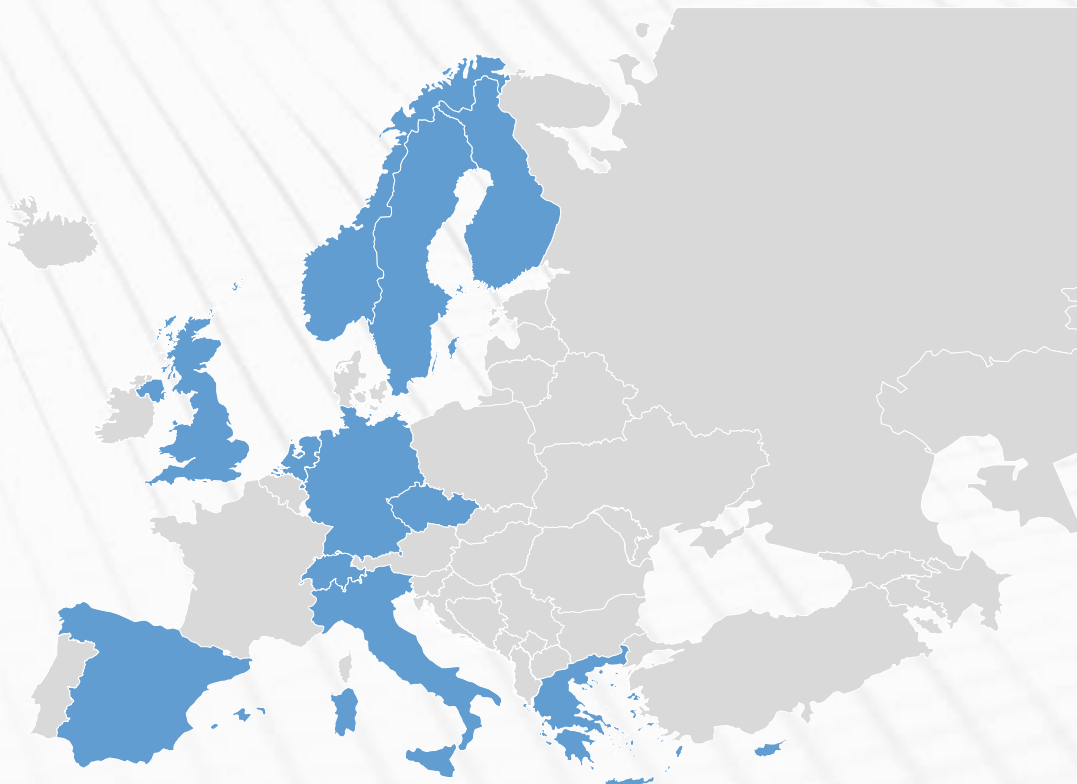
Enable a European storage and data management infrastructure for EOSC
Provide generic services to store, find, access, and process data in a consistent and persistent way



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



Service providers



Users' communities

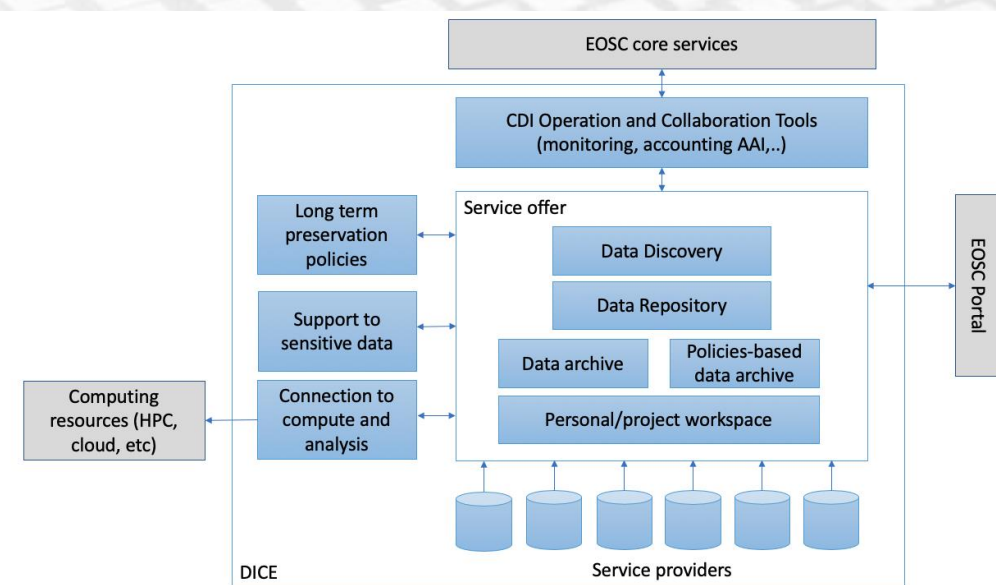


Outreach & sustainability

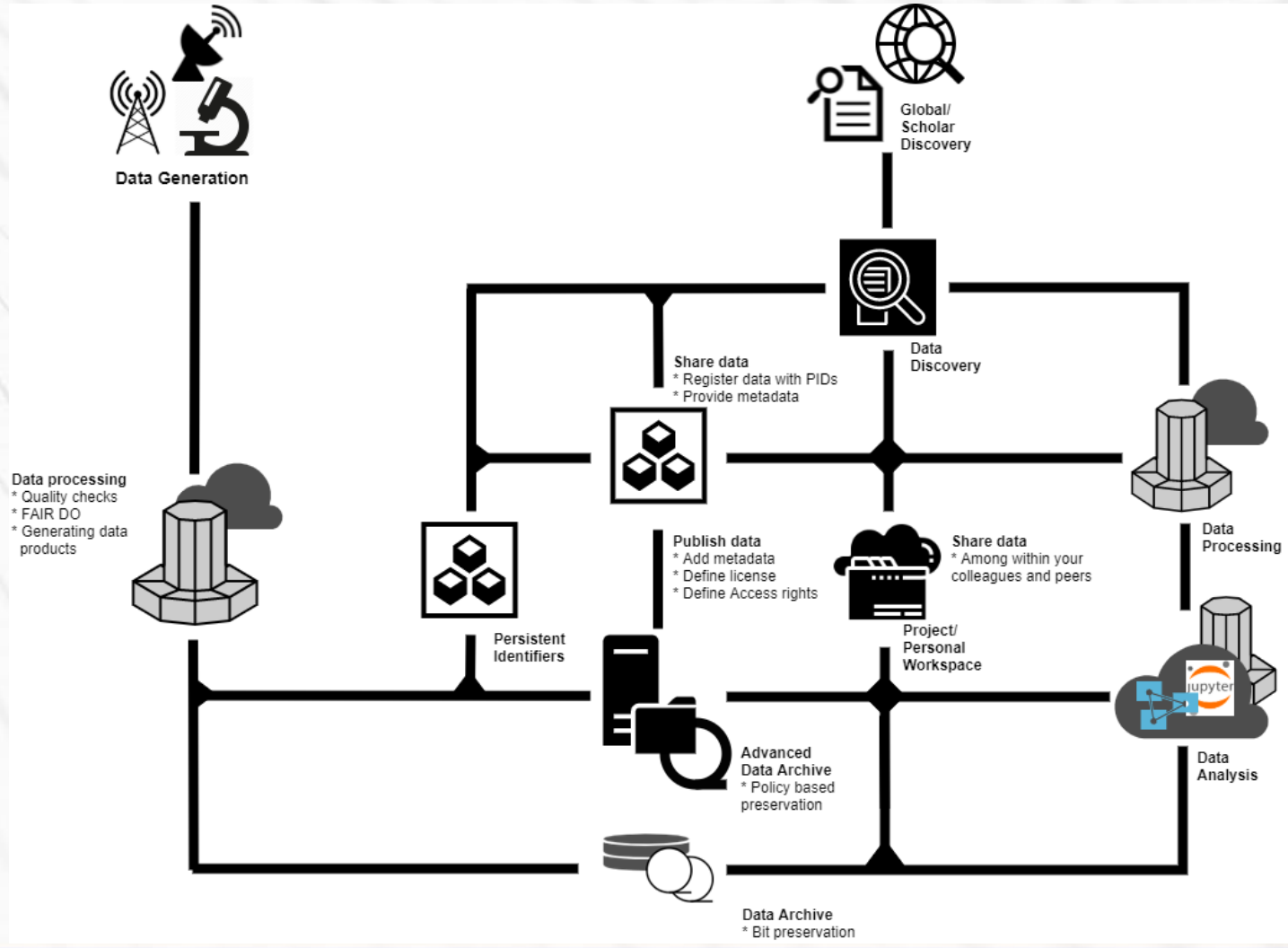


Objectives

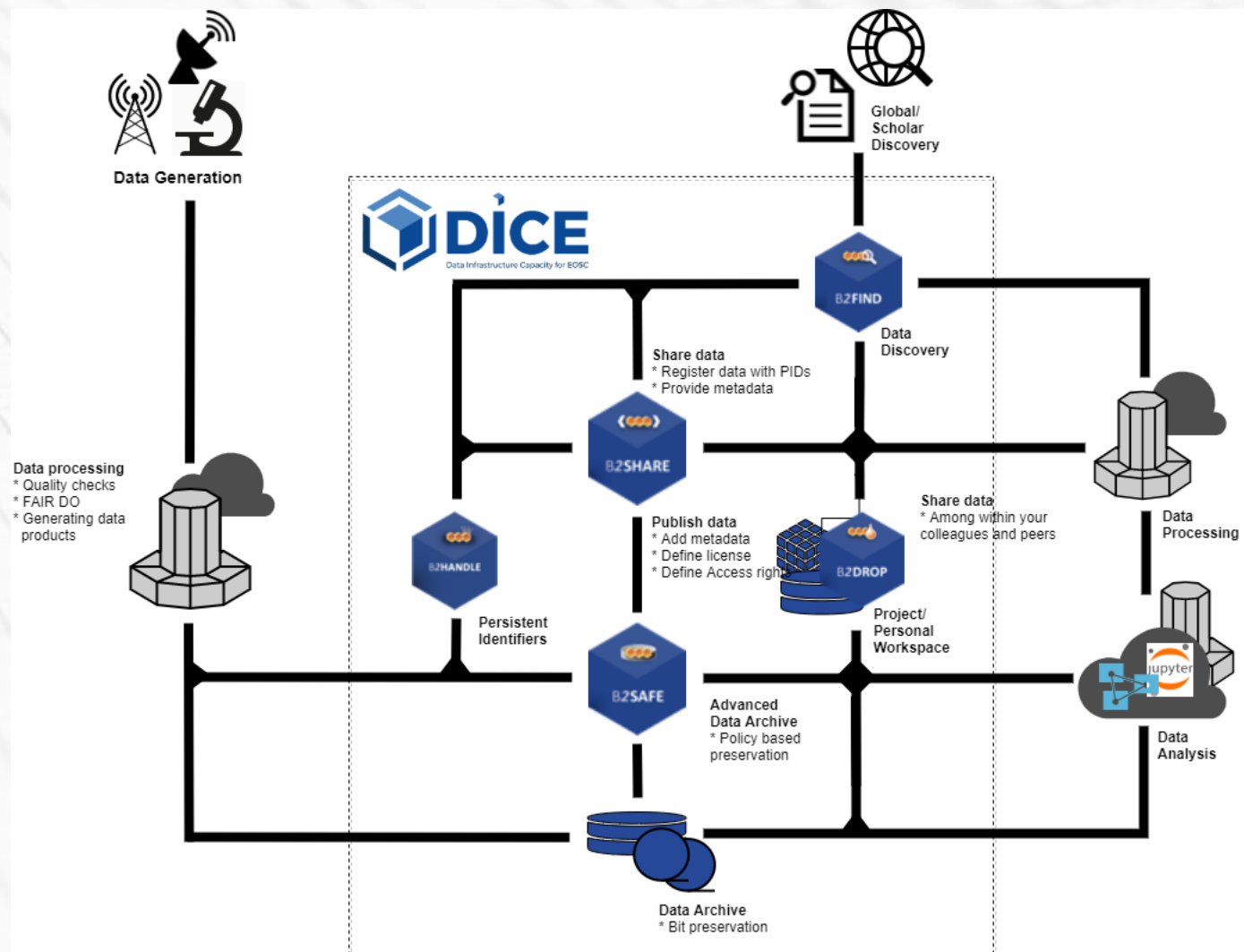
- ▶ Enable a European storage and data management infrastructure for EOSC
- ▶ Provide generic services to store, find, access, and process data in a consistent and persistent way
- ▶ Enrich the available data management services to better support: sensitive data, long-term preservation, connection with compute
- ▶ Provide resources under VA mechanism for each service



Research data workflow



Research data workflow - DICE



DICE offering



Data Discovery

Making research data findable
Data source harvestable and to make data widely discoverable



Data Repository

Long-term data resources preservation and sharing
To store non-active FAIR data



Policies based Data Archive

Mid-long term data resources, accessible from computing facilities to store non-active research data
Value-added services (integrity checks, replications, ..) for long-term, stable data archives.



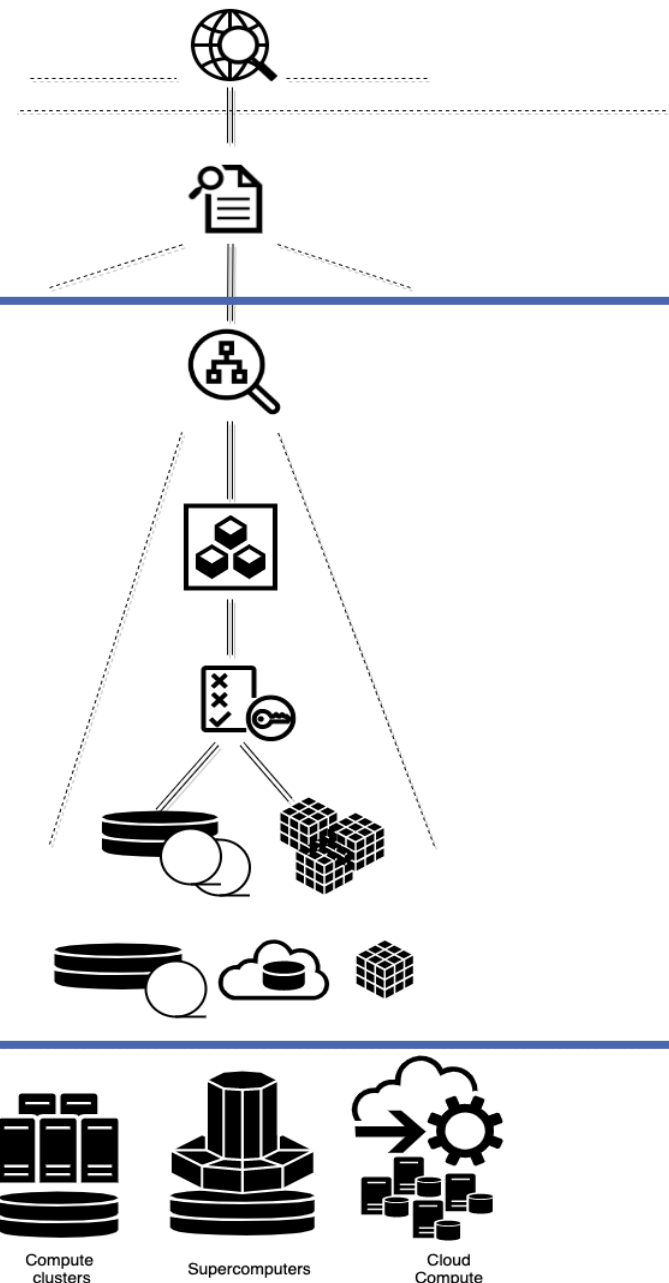
Data Archive

Mid term storage resources after/between projects,
Accessible from computing facilities to store non-active research data, bitwise preservation

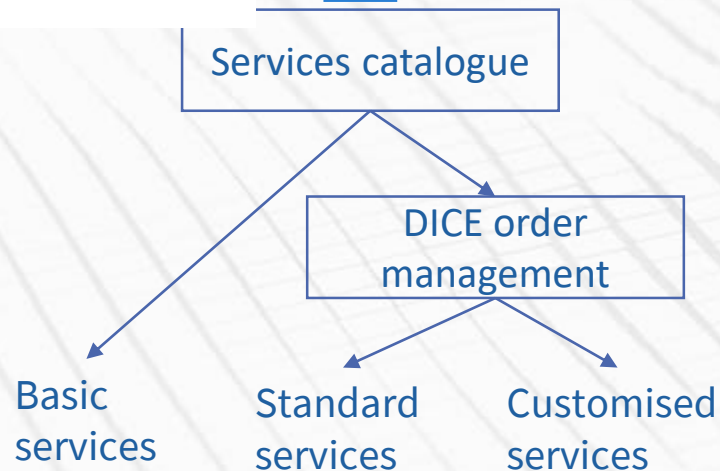


Personal and/or Project workspace

Mid-term storage during project,
Good connection to computing facilities,
To store active resource data

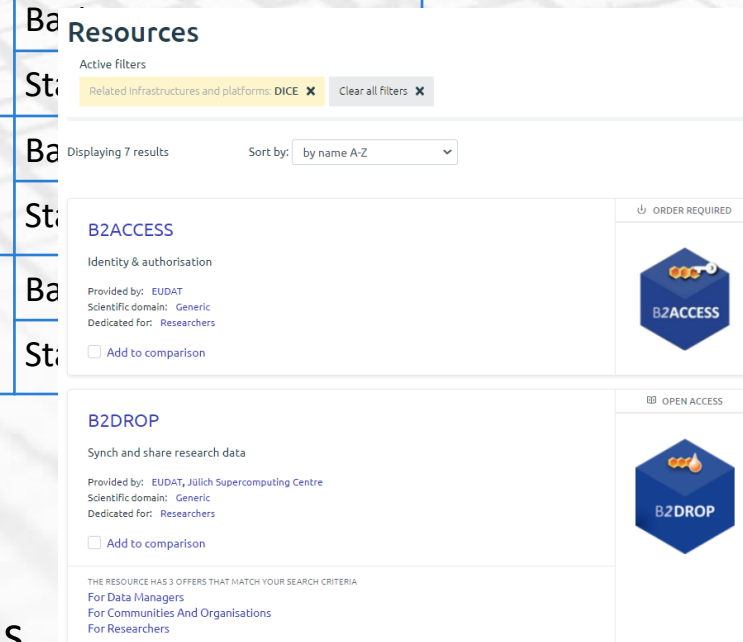


DICE offering



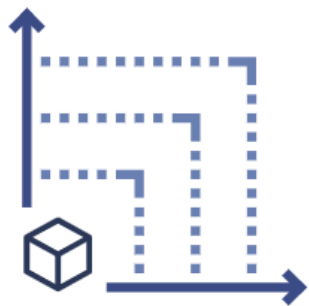
- 14 services offered via > 40 installations
- >50 PB of storage offered with the services
- For most categories, services are already onboarded in the EOSC marketplace
- More services/installations will be made available in the next few months

Service type	Service offer	Total capacity offered
Data discovery	Basic	---
	Standard/Customised	75 prefixes > 50 organisations
Data repository	Basic	150 TB
	Standard/Customised	7'750 TB
Policy based Data Archive	Basic	---
Data archive	Basic	---
Personal/project workspace	Basic	---



The screenshot shows search results for 'B2ACCESS' and 'B2DROP' in the EOSC marketplace. The 'B2ACCESS' entry is marked as 'ORDER REQUIRED' and provides details on identity and authorization. The 'B2DROP' entry is marked as 'OPEN ACCESS' and describes a service for synchronizing and sharing research data. Both entries include 'Add to comparison' buttons and a note that the resource has 3 offers matching search criteria.

Expected impacts



Scale up the EOSC Portal



Provide scientific communities across Europe with state-of-the-art services



Facilitate Open Science practices across the research community



Foster synergies between pan-European e-infrastructures operator



Support the collaboration in data provision and exchange across infrastructures



Incentivise institutional and public actors to open up their services and resources to researchers

Collaborations

- ▶ DICE plans to actively collaborate with other EU initiatives
- ▶ In particular, we will look for synergies and collaborations with the other 07 projects and the 03 project
- ▶ Strong connection with users' communities will be built
 - ▶ Communities part of the project and part of the external advisory board
 - ▶ Strong users' engagement activities



Thank you!

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DICEosc



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