



Collaborative  
Data Infrastructure



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# Challenges

1. Research data management is complex (tailored solutions are often needed)
2. Research communities are heterogeneously organised (some mature, some just starting)
3. Data management and storage services cannot easily be dissociated from computing services (but behave differently)
4. Storage services require a specific kind of commitment over a long period (typically >10 years)

- 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



Different strategies for different usage scenarios

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- For end-users and single researchers
  - Free generic services (i.e. B2DROP, B2SHARE, B2FIND)
  - Use of community services



- For data managers of communities and projects
  - Data storage, replication and transfer for computing on B2SAFE
  - 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
- For research organisations and research infrastructures
  - Contracted customised services or solutions

- NRENs can make use of services provided by EUDAT providers for their users
  - Besides the central instances, dedicated instances can be created and provided
  - Customers can be the individual universities or NREN as broker
  - Up to June 2023 all service offering (both service configuration and associated resources) is free at the point of use
    - Unique opportunity to test and pilot the services
  - Support to users is provided by EUDAT providers as part of the service offering

- NRENs can become provider of data management services for their national users
  - Deployment of EUDAT services for their users
    - EUDAT can offer support in the set-up of the services
    - Consultancy can be provided to help in understanding which are the best services fitting the NRENs needs