



EUDAT & ENES

EUDAT User Forum
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Rome
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ENES: European Network for Earth System Modelling

ENES is intended

- to help in the development and evaluation of state-of-the-art climate and earth system models
- to facilitate focused model intercomparisons in order to assess and improve these models
- to encourage exchanges of software and model results
- to help in the development of high performance computing facilities dedicated to long highresolution multi-model ensemble integrations.



Status of ENES

- Approx. 50 partners
 - Universities
 - Research Organizations
 - Industry



- international research and infrastructure projects.
- Earth System Grid Federation (ESGF) is the proven and operational data infrastructure



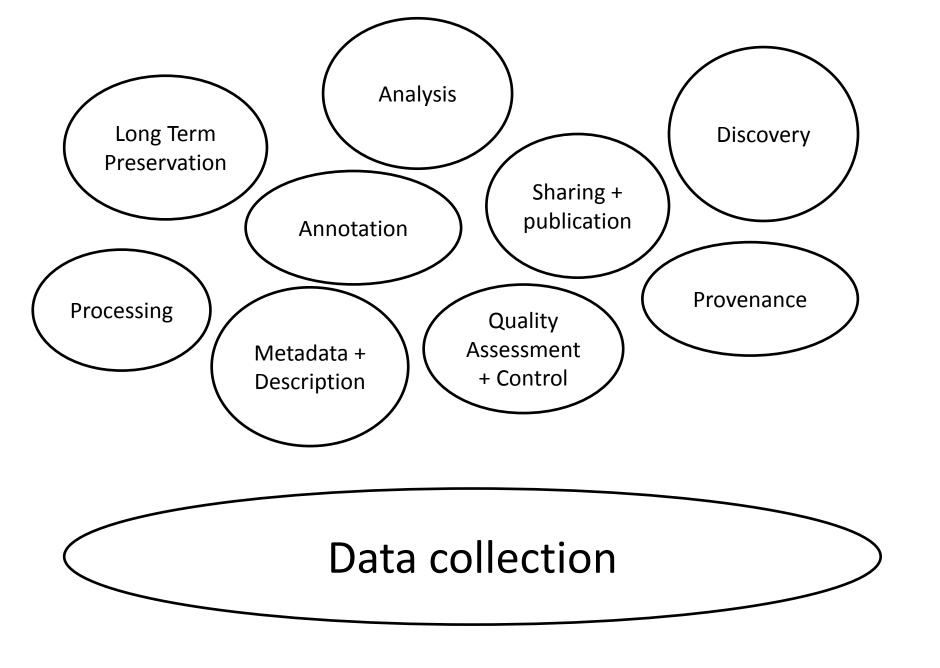
ENES & EUDAT

- ENES is one of the core communities of EUDAT
- ENES partners involved
 - Max-Planck-Institute for Meteorology
 - Centre Européen de Recherche et de Formation Avancée en Calcul Scientifique (CERFACS)
 - Deutsches Klimarechenzentrum (DKRZ)









PID services

- Introducing PID services to ENES
 - New development benefit from EUDAT experience
 - Using the same tools and software stack as EUDAT will reduce additional effort
 - Standardization effort of PID records content resonates well with similar effort for ENES

Tool support requires harmonization

- Planned ENES data information tool with PID and versioning support
 - will use B2Handle library
 - depends on standardized PID types
 - may also display provenance information

- Such tools should be interoperable!
 - Used interdisciplinary, also outside core communit

Versions

Provenance

Benefit from overarching EUDAT efforts

Data Analysis



Requirement is to perform data analysis close to the archive location.

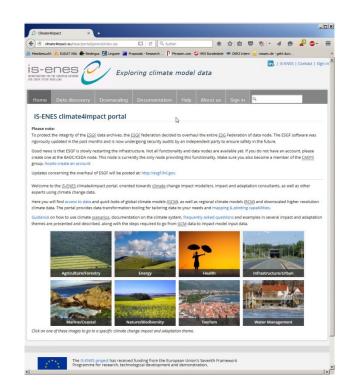
- This requirement is already adressed within the community.
- More complex data analysis are expected from the users.
- Often data from other communities are required.

Data Analysis

Requirements ask for

- Workflow services
- Federated service registry
- User workflow registry

→ How to make these accessible to users?



Long Term Data Preservation

Within ENES several partners have already established infrastructures for the long term preservation of data, especially well structured large data collections.



Not everything in ENES is Big Data!

Long Tail

- There is a need for the preservation of long tail data within ENES.
- DKRZ is interested to run a B2SHARE instance for ENES users.

This will be a service aiming at individual users but also at projects!

Certification

 DKRZ aims at DSA certification of its long tail B2SHARE repository.

Benefit from the experiences made within EUDAT2020

Trust

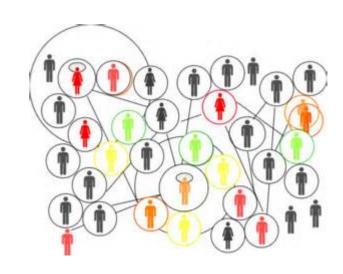
Vision of EUDAT is to enable European researchers from any discipline to preserve, find, access and process data in a trusted environment.

One important element to build trust is the certification of community repositories.

Trust is not only a question of certification.

We see a great value in the interaction with

- other EUDAT communities
- other service providers



Thank you!