



**Barcelona
Supercomputing
Center**
Centro Nacional de Supercomputación



Research Data Management at BSC



Nadia Tonello

Head of Data Management

nadia.tonello@bsc.es

Fira FAIR data - UB

15/06/2023

Data Management at BSC



Infraestructura nacional

- Servicios y herramienta para la gestión de datos
- Soporte a los usuarios externos en RDM, seguridad, aspectos éticos y privacidad.
- Formación

Computer Sciences

To influence the way machines are built, programmed and used: programming models, performance tools, Big Data, computer architecture, energy efficiency

Earth Sciences

To develop and implement global and regional state-of-the-art models for short-term air quality forecast and long-term climate applications

Life Sciences

To understand living organisms by means of theoretical and computational methods (molecular modeling, genomics, proteomics)

CASE

To develop scientific and engineering software to efficiently exploit super-computing capabilities (biomedical, geophysics, atmospheric, energy, social and economic simulations)

Instituto de Investigación multidisciplinar

- Adopción de guías y buenas prácticas por parte de los usuarios internos.
- Preparación de DMPs
- Participación en proyectos

Research Data Management support

Operations



- DMPs content and review
- Training on data management
- Guidelines and good practices adoption
- Data projects support (RES data and HE)
- Users support – storage
- OpenStack – VMs support
- Generic data services provision
- Infrastructure security responsibility

- (PMO) Projects deliverables management
- (PMO) Publications policy
- (PMO) Internal ethical review

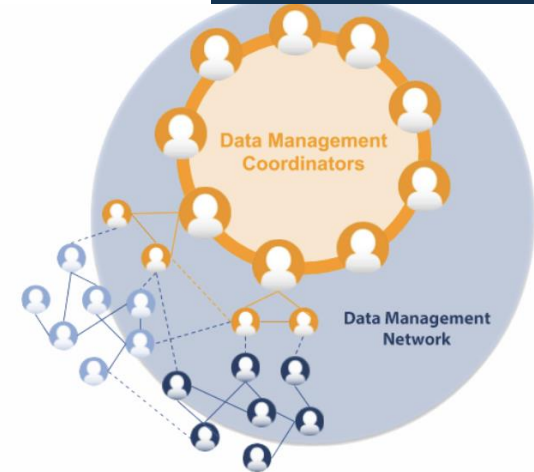
- (KTT) Licenses, patents, etc...
- (LEGAL) Personal data storage and data Exchange
- (LEGAL) Contracts and agreements

Data Management at BSC

Researcher's responsibilities

- Laptop content
- Own data security
- Proper use of infrastructure
- Follow the good practices of the scientific communities and their application at BSC
- Inform about:
 - Publication of papers and datasets (UPCommons)
 - Any doubt about data storage, services and BSC infrastructure usage in general
 - Any possible security issue

Examples



Copernicus
Europe's eyes on Earth


Climate
Change Service
climate.copernicus.eu

Quality Assurance for Multi-model Seasonal
Forecast Products - QA4Seas

Offer access and deposit, from informal data sharing to long-term archiving, both long-tail and big data, to address the full lifecycle of research data.

BSC DM-activities

Part of the EUDAT initiative from 2011
Generic service provider (level 1)
Executive Board member



B2HANDLE
Register your Research Data

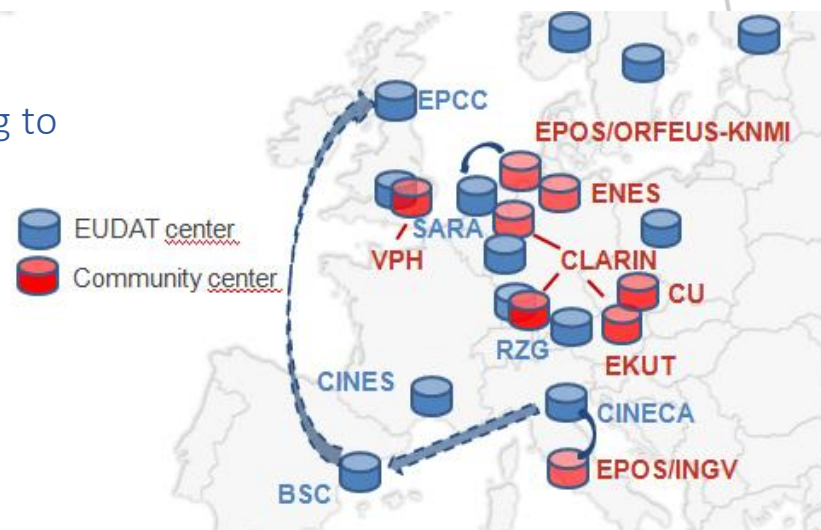
B2SAFE
Replicate Research Data Safely

Climate models
Bio-medicine



B2DROP
Sync and Exchange Research Data

Generic BSC service for
collaboration with
external users



Large dataset sharing/exploitation



ICTS: Infraestructura Científico técnica Singular
Coordinada por el BSC-CNS

Plan estratégico: desplegar y ofrecer servicios de datos
cerca de la computación.

Proyectos de datos: convocatoria abierta cada año
(Nov-Jan)



Mas info?

datamanagement@bsc.es

European Open Science Cloud

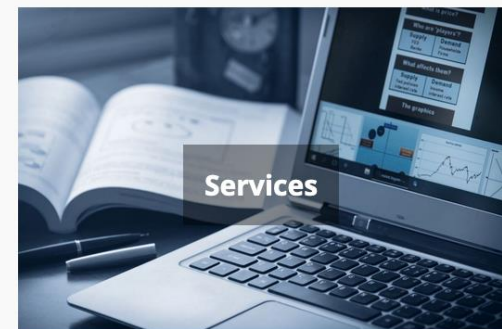
<https://eoscpilot.eu/>



<https://www.eosc-hub.eu/>



<https://eoscfuture.eu/>



European Open Science Cloud



INFRA-EOSC Projects



Other related initiatives



<https://marketplace.eosc-portal.eu/>

A screenshot of the EOSC Marketplace website. The header is dark blue with the European Open Science Cloud logo, a search bar, and 'All services' and 'My EOSC Marketplace' links. The main content area has a light blue background with a large illustration of two people looking at a screen. The text reads: 'Welcome to the EOSC Catalogue and Marketplace'. Below this is a paragraph: 'Integrated platform that allows easy access to lots of services for various research domains along with data and integrated data analytics tools. Browse by scientific domain, your current research activity or provider that you know and trust and, if you need help, we are here for you!'. Another paragraph follows: 'EOSC Marketplace has been integrated with a new joint catalogue exposing both services and research products. Please note that the search capabilities of the Marketplace, including these available from the services' entry pages, are focusing on the services only, while all EOSC Resources are findable via the new search interface.'. At the bottom, there are two call-to-action buttons: 'Find EOSC Services that suit your use case yourself' and 'Describe your use case and get support from our experts'. Below these are two more buttons: 'Discover research products and services all together' and 'Go to your projects'. A third button 'Browse through service catalogue' is also visible.



Data Management at BSC



- La política de datos del BSC sigue e impulsa la adopción de las indicaciones nacionales y Europeas en Ciencia Abierta.
- La infraestructura y servicios del BSC están disponibles para los investigadores del centro y para los proyectos externos que aplican a las calls.
- Los investigadores están obligados a respetar las normas de uso y responsabilidades de los usuarios del Centro.
- Data Management grupo de soporte a los usuarios, y conexión con iniciativas como EOSC.



**Barcelona
Supercomputing
Center**
Centro Nacional de Supercomputación



Thank you!

Contact:

datamanagement@bsc.es

Nadia Tonello

Head of Data Management

nadia.tonello@bsc.es

15/06/2023

Fira FAIR data - UB