



EUROCC SPAIN



OBJECTIVE

The establishment of the **NCC in Spain**, which is part of a larger network comprising **32 participating states**. This NCC network collaboratively works to enhance expertise and support in the fields of Supercomputing, Big Data, and Artificial Intelligence across Europe.

OUTCOME

The creation of EuroCC Spain project establishes a **National Competence Center (NCC)** in Spain capable of offering a wide range of services in **Supercomputing, Big Data, and Artificial Intelligence**. These services aim to fulfill the requirements of various sectors such as **industry, academia, and public administration** within Spain.



ACADEMIA

For the advancement of strategic research.



INDUSTRY

For the development of innovative solutions, cost reduction and process optimization.



PUBLIC ADMINISTRATION

For better data management analysis and visualization.

TRAININGS



INTRODUCTION TO SUPERCOMPUTING COURSE

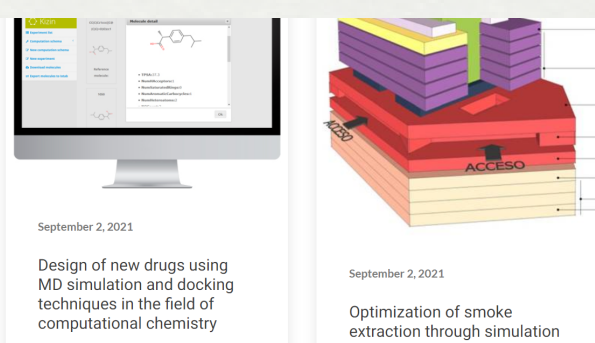
Aimed at **companies** that are not regular users of supercomputing but can benefit from it.



ADVANCED USER COURSES

Aimed at sharing knowledge for more expert users and **academia**

SERVICES AND COMPETENCES



Supercomputing Success Stories



CONSULTANCY

Check your innovation potential, we advice you on Supercomputing adoption

ACCESS TO RESOURCES



EUROCC SPAIN TESTBED ACCESS SUPERCOMPUTING RESOURCES

Up to 50K hours of computing and 40 hours of personalized attention per activity for 3 months.

+ Supercomputing resources at:



RED ESPAÑOLA DE SUPERCOMPUTACIÓN

ACHIEVEMENTS EUROCC2 SPAIN

- Launch of the Introduction to Programming GPUs course for industrial users, also available alongside the Introduction to Supercomputing course on the EuroCC Spain website.
- Training activities and workshops organized within the NCC framework.
- Analysis of knowledge gaps among both basic and advanced users.
- Surveys conducted with entities to assess competencies.
- NCC Spain delivered a total of 14 training courses.
- Supported 9 testbed applicants from the public and private sectors in accessing HPC resources.
- A first version of the competence search engine and several success stories were delivered in 2024.
- Collaborated with over 10 NCCs, co-organized major events, and expanded European partnerships.



EUROCC1

2020-2022

EUROCC2

2023-2025

The Spanish Supercomputing Network (**RES**), is a Unique Scientific and Technical Infrastructure (ICTS) distributed throughout Spain, composed of 14 nodes interconnected with high-speed networks.

The RES mission is to offer computing, data management and artificial intelligence services and resources to support the development of top-quality, cutting-edge and highly-innovative research projects, made available to the scientific community through competitive calls based on the scientific excellence of the proposals received.

HPC SERVICES

Request computing hours on all machines within the RES and access high-performance computing resources.

DATA EXPLOITATION SERVICES

Create a Data Management Plan (DPM), indicating the preferred network node to store your project's data.



RES in numbers (2024 forecast)

Combined computing capacity above 320 PFlop/s
Combined storage capacity above 180 PBytes
Nearly 2.000 million core hours to distribute
High-speed network (RedIRIS)
Periodic competitive calls for access

RES production (2023)

~400 activities/experiments enabled
~240 scientific papers acknowledging RES
More than 1.000 regular users



EuroHPC
Joint Undertaking

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