2nd Annual Meeting of EUROfusion HPC ACHs, Barcelona, Spain 27-27 November 2024

Welcome

Mervi Mantsinen[1]

on behalf of the CIEMAT-BSC ACH team

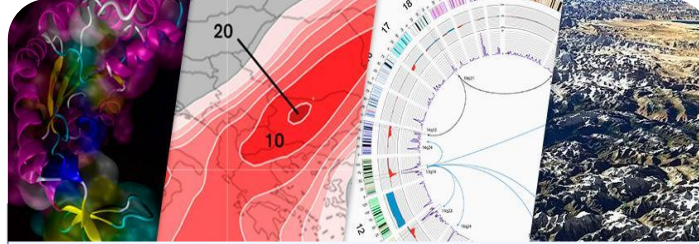[1]CIEMAT-BSC ACH PI, ICREA Research Professor and Fusion Group Leader at BSC

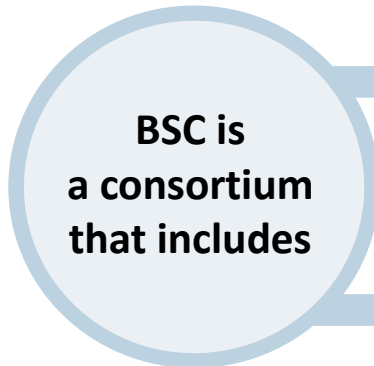# Barcelona Supercomputing Center (BSC)

Objectives

Supercomputing services
to Spanish and EU researchers

R&D in Computer, Life, Earth,
Engineering and Social Sciences

PhD programme, technology
transfer, public engagement

**BSC is
a consortium
that includes**

Spanish Government	**60%**	
Catalan Government	**30%**	
Univ. Politècnica de Catalunya (UPC)	**10%**	

Created in 2005. In **2023:**
- **976 people**
- **budget 71.2 M€** of which 61.6 M€ competitive funding (15% company contracts)

BSC hosts the MareNostrum series of supercomputers

MareNostrum4 (2017-2024)

Total peak performance:
13,74 PFlop/s

Investment:
50M in 5 years

MareNostrum5 (2024-)

Total peak performance:
314 PFlop/s
+600 Pbytes

Investment:
+200M in 5 years

Access: prace-ri.eu/hpc_acces
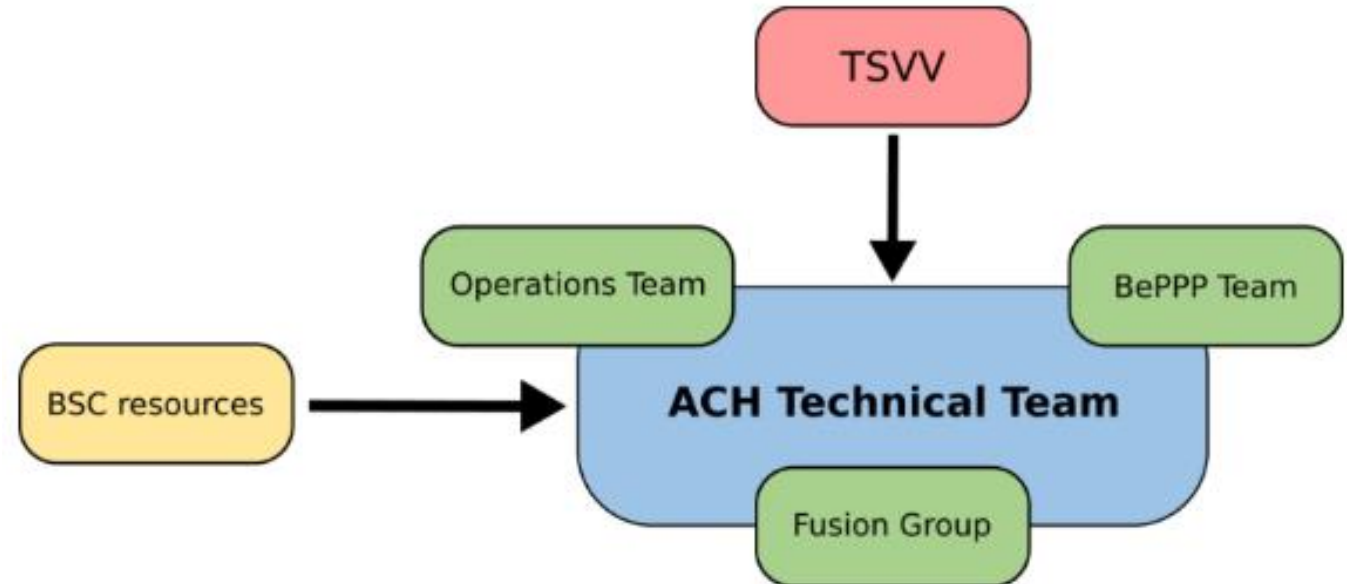
Access: bsc.es/res-intranet

ACH at CIEMAT / Barcelona Supercomputing Center (BSC), Spain

- BSC, affiliated to EUROfusion via CIEMAT, hosts one of ACHs in HPC

- Recently described in [Saez PPCF 2024].

- Involves **three groups** at BSC:
  - Fusion Group
  - Operations
  - Best Practices for Performance and Programmability (BePPP)

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PRACTICAL INFORMATION

9 RESTAURANTS TO GO NEAR BSC
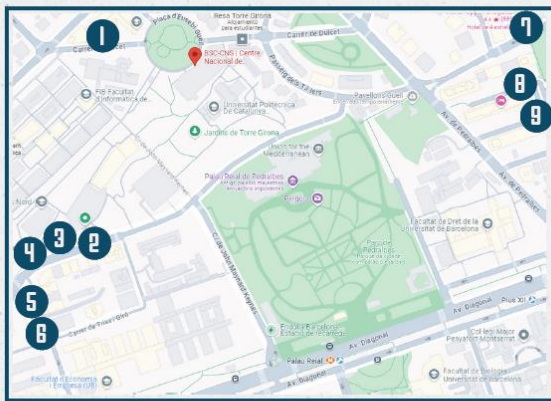
1. Restaurant Vèrtex
2. Falafel Pedralbes
3. Bite The Health Poke
4. AltaglioBCN
5. Mayopan
6. Heymei - Oriental Slow Food
7. Upper Lounge Bar
8. Central Park - Barcelo Restaurant
9. Santa Clara

Barcelona Supercomputing Center
Centro Nacional de Supercomputación

Logistics Information

Wi-Fi Access
Username: guest100084
Password: 8a0%PZI1

Social Dinner

Date: Wednesday

Time: 8:00 PM

Venue: Citrus Restaurant & Sushi Bar
- Pg. de Gràcia, 44, L'Eixample

Facilities

Restroom: First door behind this auditorium

Water Filter: Located in the same area

More practical info sent yesterday by Aerton Guimarães, aerton.guimaraes@bsc.es