

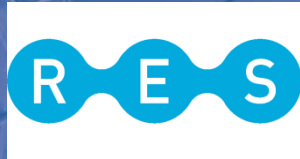
[www.bsc.es](http://www.bsc.es)



**Barcelona  
Supercomputing  
Center**

*Centro Nacional de Supercomputación*

# Spanish Supercomputing Network (RES)



Sergi Girona  
Operations Director BSC  
RES Coordinator

- « Barcelona Supercomputing Center – Centro Nacional de Supercomputación (BSC-CNS) is the Spanish National Laboratory in supercomputing.



- « The BSC mission:
  - To investigate, develop and manage technology to facilitate the advancement of science.
- « The BSC objectives:
  - To perform R&D in Computer Sciences and e-Sciences
  - To provide Supercomputing support to external research.
- « BSC is a consortium that includes:
  - the Spanish Government – 51%
  - the Catalan Government – 37%
  - the Technical University of Catalonia – 12%



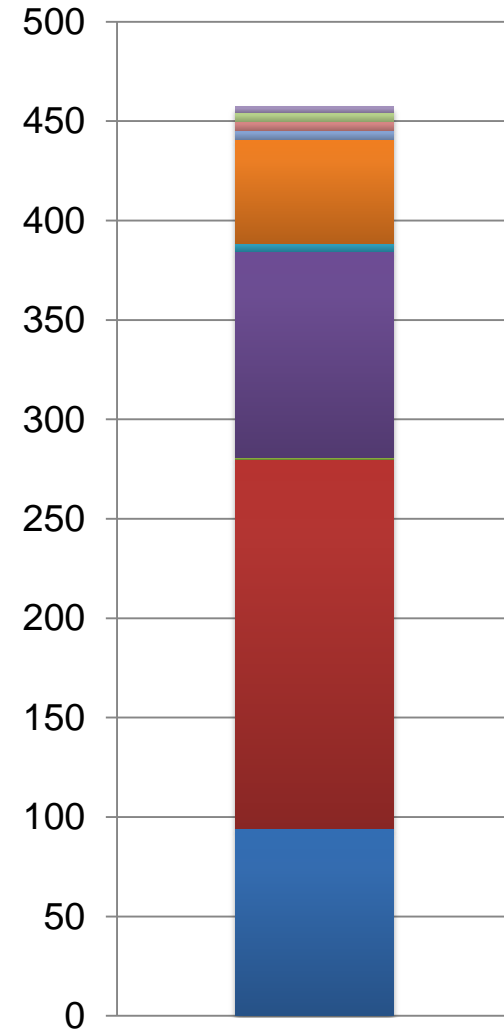
# Spanish Supercomputing Network



VNIVERSITAT  
ID VALÈNCIA



## Tflop/s





# Proyectos científicos con acceso a la RES

Astronomía, Espacio y Ciencias de la Tierra	12	17	12	16	21	14	14	11	14	12	14	11	14	18	16	$\frac{1}{2}$	16	$\frac{1}{3}$	16	14	13	288
Biomedicina y Ciencias de la Vida	20	26	18	18	26	24	20	28	24	22	23	26	29	24	19	$\frac{2}{3}$	23	$\frac{2}{0}$	15	12	12	422
Matemáticas, Física e Ingeniería	19	24	17	20	32	29	22	21	32	26	24	21	23	21	25	$\frac{1}{9}$	14	$\frac{2}{0}$	23	15	22	450
Química y Ciencia y Tecnología de los Materiales	21	27	23	18	33	32	31	26	29	26	22	22	16	23	26	$\frac{3}{3}$	34	$\frac{3}{0}$	35	38	32	556
BSC	14	19	14	14	22	29	17	17	20	17	17	16	16	17	17	$\frac{8}{8}$	17	$\frac{2}{0}$	22	21	22	370
	05	06	07	08	09	10	11	12	2078													

# PRACE Research Infrastructure

## Establishment of the legal framework

- PRACE AISBL created with seat in Brussels in April (Association Internationale Sans But Lucratif)
- 24 members representing 20 European countries
- Inauguration in Barcelona on June 9, 2010



## Funding secured for 2010 - 2015

- 400 Million € from France, Germany, Italy, Spain Provided as Tier-0 services on TCO basis
- 70+ Million € from EC FP7 for preparatory and implementation Grants INFSO-RI-211528 and 261557 Complemented by ~ 60 Million € from PRACE members




☐ **September 21<sup>st</sup>, 2012**

☐ In the context of the Third PRACE Implementation Phase Project (PRACE-3IP), which started on 1st July 2012, PRACE is considering undertaking a joint Pre-Commercial Procurement (PCP) procedure addressing the major issue of the energy efficiency of large scale supercomputers

☐ Pre-commercial procurement is one of the tool promoted by the Commission for supporting the HPC Industry and research to maintain an independent and state-of-the-art EU supply chain (2012)

☐ PCP aims to foster innovation for economic growth to ensure sustainable high quality public services in Europe.



**Workshop on the usage of Pre-Commercial Procurement (PCP) in HPC organised by PRACE**

The mission of the PRACE research infrastructure is to enable high impact European scientific discovery and engineering research and development across all disciplines to enhance European competitiveness for the benefit of society. PRACE seeks to realise this mission through world-class computing and data management resources and by providing services open to all qualifying European and International research through a peer review process.

In the context of the Third PRACE Implementation Phase Project (PRACE-3IP), which started on 1<sup>st</sup> July 2012, PRACE is considering undertaking a joint Pre-Commercial Procurement (PCP) procedure addressing the major issue of the energy efficiency of large scale supercomputers. PCP aims to foster innovation for economic growth to ensure sustainable high quality public services in Europe.

The PCP approach is new and has not yet been applied to HPC. Before launching a possible PCP procedure, PRACE wishes to initiate a technical dialogue with all potentially interested suppliers on both the technical challenges related to energy efficiency and the practical implementation of a PCP process in the context of HPC.

In order to initiate this exchange, all interested suppliers are invited to participate in a workshop that will take place in Brussels on Friday 21<sup>st</sup> September, 2012 during which both aspects will be addressed.

Companies interested in attending the workshop should send an email to [pcp-conference@prace-ri.eu](mailto:pcp-conference@prace-ri.eu) before 14<sup>th</sup> September, 2012 stating your name, contact details and email address. Space is limited at the event so early registration is recommended. Places will be allocated on a first come first served basis. Further information and practical details will be sent to all registered attendees including a detailed agenda and logistical information in early September. The event will begin at 10:00 and conclude by 16:30.

The intention of the PRACE partners involved is to closely follow the recommendations of the "COMMUNICATION FROM THE COMMISSION" on the PCP topic issued in December 2007 (see: [http://ec.europa.eu/information\\_society/itl/research/priv\\_invest/pcp/documents/pcp\\_brochure\\_en.pdf](http://ec.europa.eu/information_society/itl/research/priv_invest/pcp/documents/pcp_brochure_en.pdf)), including those regarding the location of R&D and operational activities related to the PCP.

[www.prace-ri.eu](http://www.prace-ri.eu)



Thank you

