



PARTNERSHIP FOR ADVANCED COMPUTING IN EUROPE

Building blocks of the e- infrastructure Commons

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PARTNERSHIP FOR ADVANCED COMPUTING IN EUROPE

Partnership for Advanced Computing in Europe

PRACE is an international not-for-profit association under Belgian law, with its seat in Brussels.

PRACE counts 25 members and 2 observers.

The **PRACE** Hosting Members are France, Germany, Italy and Spain.

PRACE is governed by the **PRACE** Council in which each member has a seat. The daily management of the association is delegated to the Board of Directors.

PRACE is funded by its members as well as through a series of implementation projects supported by the European Commission.





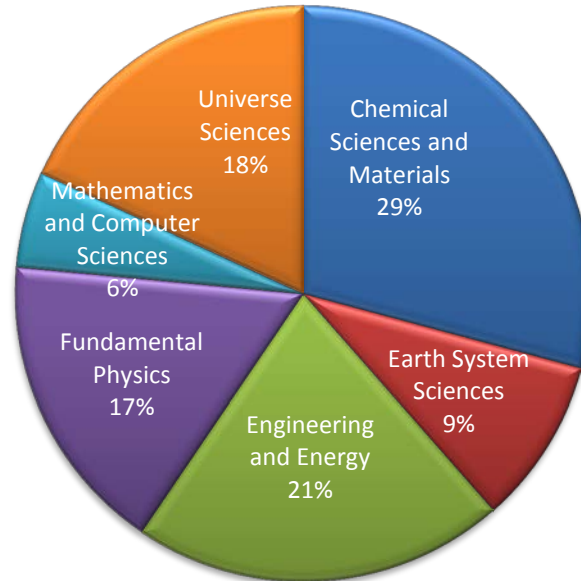
PARTNERSHIP FOR ADVANCED COMPUTING IN EUROPE

4 Hosting Members offering core hours on 6 world-class machines



MareNostrum: IBM
BSC, Barcelona, Spain

6 world-class machines



JUQUEEN: IBM
BlueGene/Q
GAUSS/FZJ
Jülich, Germany



SuperMUC: IBM
GAUSS/LRZ
Garching, Germany

Hazel Hen: Cray
GAUSS/HLRS,
Stuttgart, Germany




CURIE: Bull Bullx
GENCI/CEA
Bruyères-le-Châtel, France

FERMI: IBM BlueGene/Q
CINECA, Bologna, Italy






PARTNERSHIP FOR ADVANCED COMPUTING IN EUROPE


 **412** scientific projects **enabled**

 **10.7 thousand million** core hours awarded since 2010 with peer review, main criterion is **scientific excellence**. **Open R&D** access for **industrial users** with **>50 companies** supported

 **>5000** people trained by **6 PRACE Advanced Training Centers** and others events

 **18 Pflop/s** of peak performance on **6 world-class systems**

 **530 M€** of funding for **2010-2015**, access **free for projects that have been selected**

 **25 members**, including **4 Hosting Members** (France, Germany, Italy, Spain)



**Criterion:
Scientific
Excellence**

Access through PRACE Peer Review



Free-of-charge required to publish results at the end of the award period
Open to **international** projects



Project Access (*every 6 months*) **award period 1 to 3 years**
Individual researchers and groups
No restriction on nationality for both researcher and centre
Required to demonstrate technical feasibility of project



Preparatory Access (*cut-off date every 3 months*)
Optional support from PRACE experts
Prepare proposals for Project Access

User oriented service approach for the HPC ecosystem





e-IRG Recommendations

- Outreach to and involvement of user communities
 - PRACE is prepared to join forces in outreach and involvement of user communities; already in place:
 - Networking session with EGI and EUDAT at ICT
 - PRACE Scientific Steering Committee and User Forum
- Services registry, discovery and provisioning
 - PRACE is prepared to work on joint services to simplify usage of resources across infrastructures
 - The work should be based on real-life use-cases
 - Examples: Pilot Call for joint Tier-0 access and data storage services and resources, joint training events, Security for Collaborating Infrastructures
- Financial, legal, business development and procurement issues
 - PRACE has a well defined, unique business and funding model
 - Exchange of experience is possible