



PARTNERSHIP FOR ADVANCED COMPUTING IN EUROPE

PRACE's open R&D Model

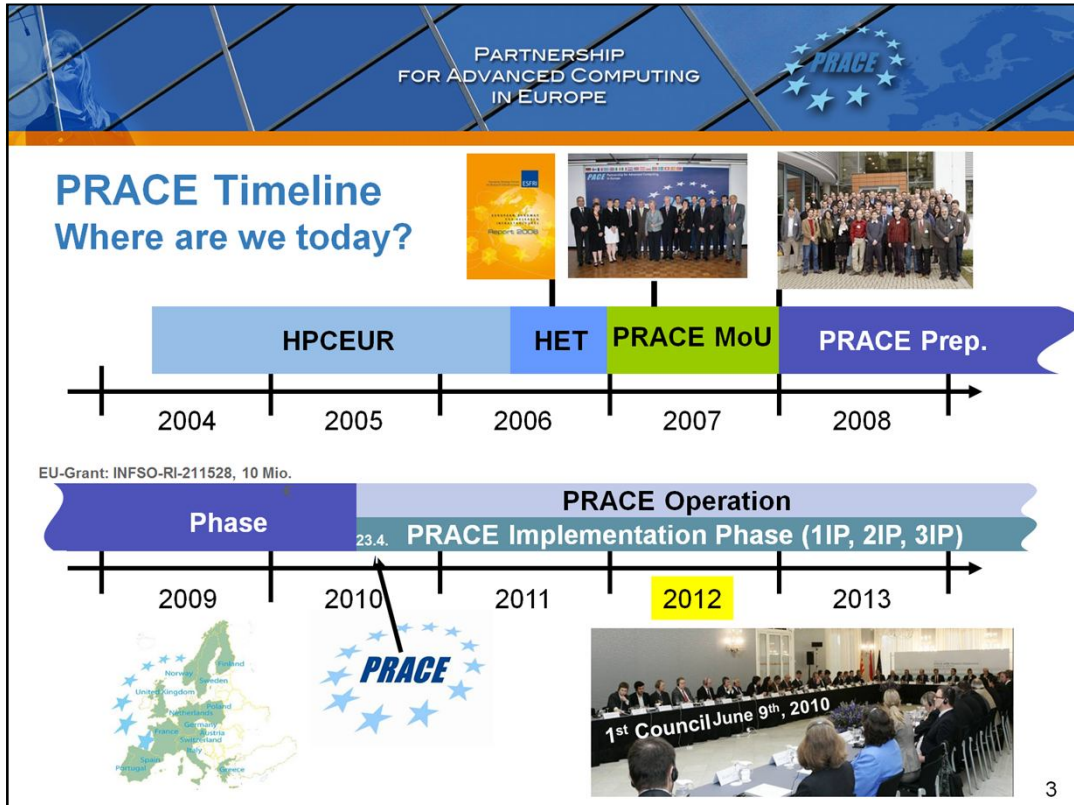
Dr. Maria Ramalho, Chair of the BoD, PRACE
Industrial Seminar, April 16-17, 2012, Bologna



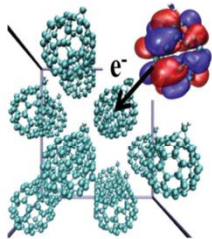


PRACE – our mission

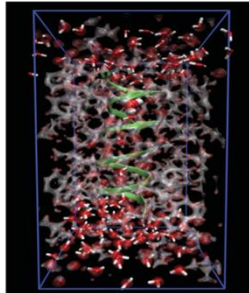
- To be a persistent pan-European Research Infrastructure providing worldwide leading HPC services
- PRACE resources are available for open R&D research
- We enable world-class science and engineering for European academia and industry
- Our aim: Make EU the World-Leader in High-Performance Computing



PRACE early access call: Science !



*Electron transport in
organic solar cell materials,*
J. Blumberger, UCL



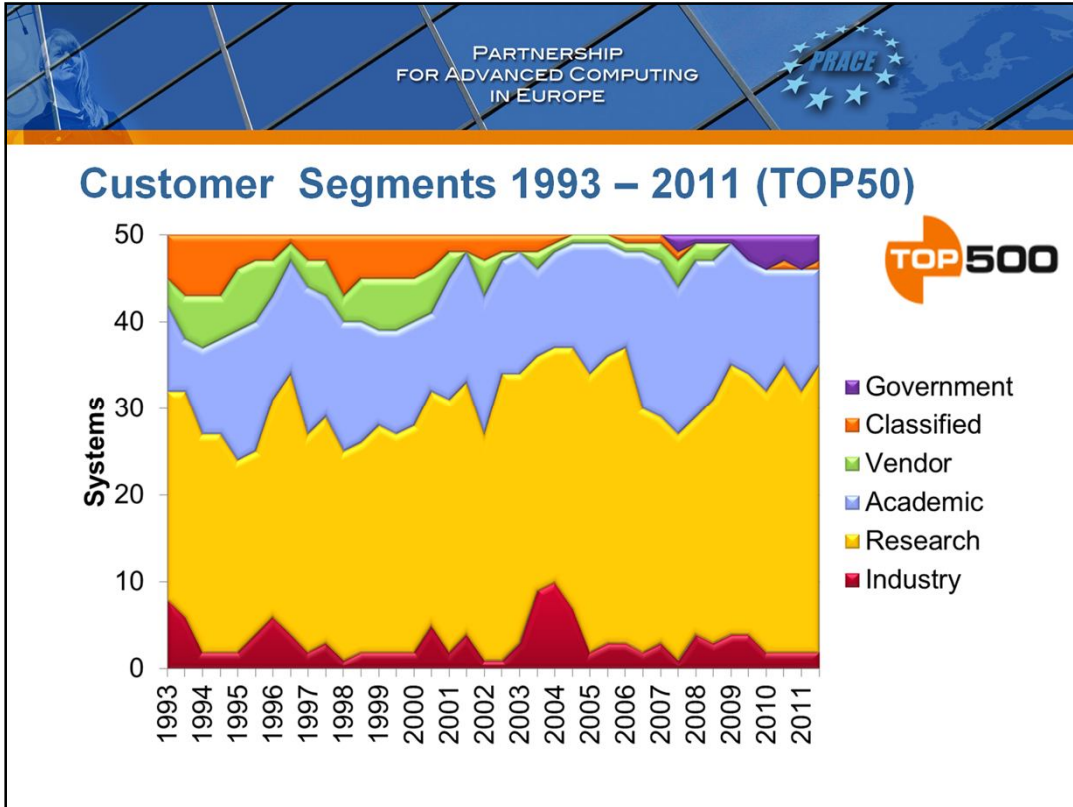
Excess proton at water/hydrophobic interfaces
Paolo Carloni, Jülich



Weather & Climate,
H. Jonker, Delft University



genie.rzg.mpg.de
Fusion-ITER, F. Jenko (MP-IPP)

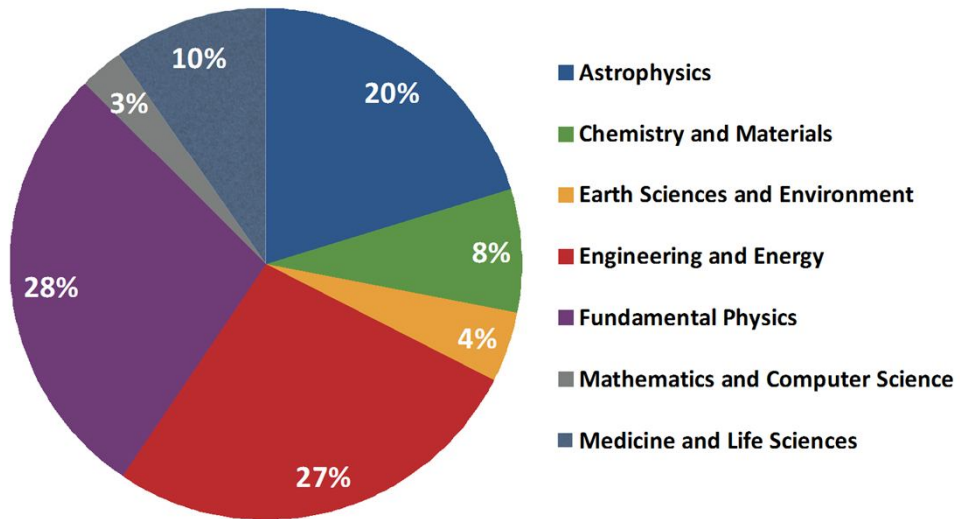


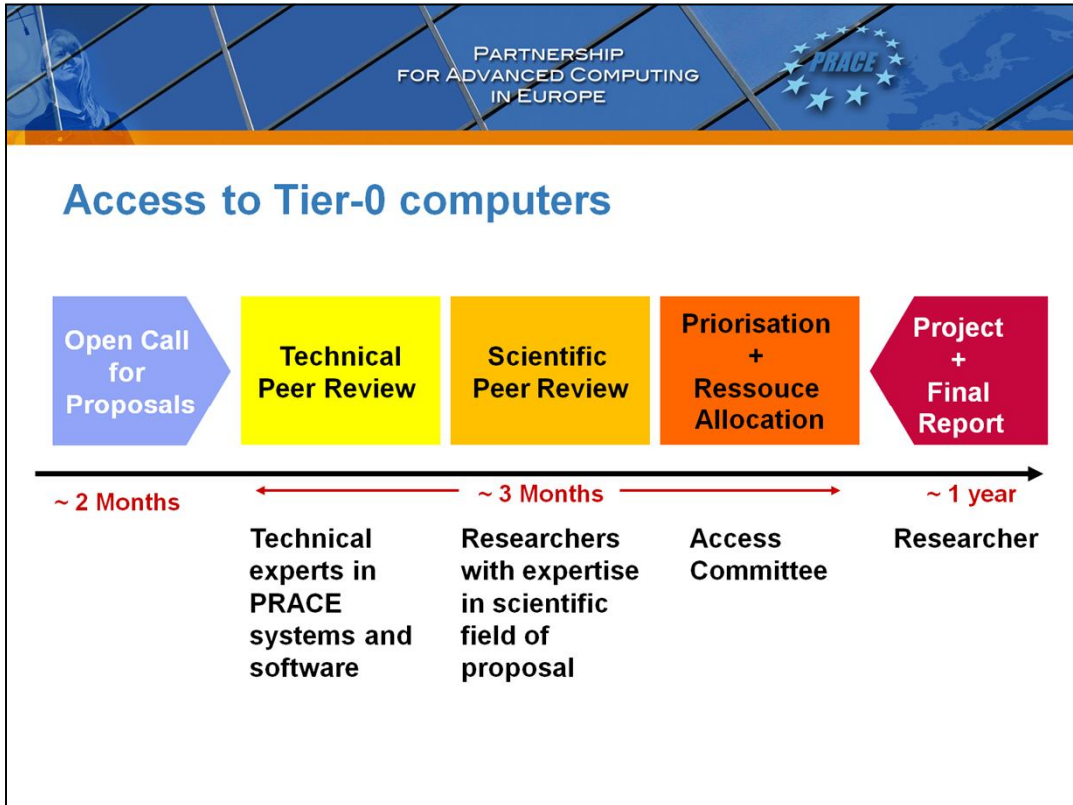
Past project access calls for proposals

Call	Requested Hours (million core hours)	Requested Projects	Awarded Hours (million core hours)	Awarded projects
Early Access	1870	68	324	10
1st	2900	59	362	9
2nd	1250	47	393	16
3rd	1700	53	721	24
total	7720	227	1800	59

Ø = 30,51 Mio core hours/proposal

Distribution of resources







Eligibility for Tier-0 resources

Access is awarded solely for open R&D purposes

Project leader = senior researcher employed in a research organization. His employment contract with the research organization must be valid to at least 3 months after the end of the allocation period.

Access is free of charge; Project leader must commit to provide within stipulated period the **final report** and a **qualitative feedback** on the use of the Tier-0 resources. Otherwise, sanctions can be incurred.

Industry: Head office or substantial R&D in Europe

Industry may apply **on its own** (max. 5% total resources available) or **in collaboration with academia**

Access will be free of charge. Prior to being awarded access, project leader should commit to publish the results obtained in publicly available journals.



Types of access

- **Preparatory Access**
 - Intended for preliminary resource use required to prepare proposals for Project Access
 - Technical review
- **Project Access**
 - Intended for individual researchers and research groups including multi-national research groups
 - Technical and Scientific review
- **Multi-year Access**
 - Available to major European projects or infrastructures that can benefit from PRACE resources
 - Planned for 2 years allocation
 - Test call; renewed based on evaluation



Call 5 - features

- **Project and multi-year access (Tier – 0)**
 - Opens tomorrow 17th April; closes 30th May 2012 12:00 CET
 - Request for comments: 10-17th Sept
 - Notification of awards: 25th Oct
 - Allocation from 1st of November for 1 or 2 years
 - Multi-year access projects cannot exceed 20% of the total resources
- **DECI call (Tier1)**
 - Opens tomorrow 17th April; closes 30th May 2012 12:00 CET
 - Request for comments on admin check: May 31st – June 3rd
 - Confirmation of successful submission: June 5th
 - Review results: third week October 2012
 - The peer review is NOT under the PRACE AISBL responsibility



Call 5 – Tier-0 code scalability

- JUQUEEN: at least 8k compute cores
- CURIE:
 - Thin nodes: 2048 cores
 - Fat nodes: 512 cores
- HERMIT: 2048 cores
- FERMI: 2048 cores
- MareNostrum: 2048 cores
- Proposals requesting continuation of access **MUST** present the final report of previous allocation at call submission



**Thank you very much
for your attention!**

Please contact:

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