



# Access to HPC resources in Italy and Europe

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[www.hpc.cineca.it](http://www.hpc.cineca.it)

# Access to HPC resources: CINECA aims and basic principles

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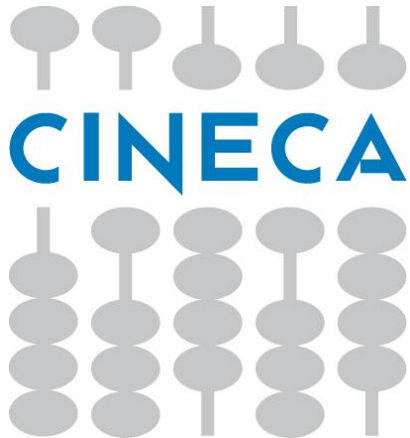


## Our objectives:

- ✓ Providing Italian and European researchers with an advanced computational environment
- ✓ Supporting Italian researcher for increasing their competitiveness
- ✓ Following Italian researchers in their path towards Tier 0
- ✓ Soliciting large-scale and computationally intensive projects

## Basic principles:

- ✓ Transparency
  - ✓ Fairness
  - ✓ Conflict of Interest management
  - ✓ Confidentiality
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Italy

Europe



# L'offerta HPC in Italia

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Italy



# HPC offer in Italy: ISCRA

## Italian SuperComputing Resource Allocation

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The aim of ISCRA is to ensure adequate support to Italian scientists and engineers.

The allocation is of 200M core hours per year on

- FERMI

The access is by

- Online submission of proposals
- Peer-review process by an international panel

The proposal are scientifically evaluated by international reviewers and technically evaluated by Cineca experts.

Applications and codes are evaluated on the basis of their computational readiness.

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**Class B:** Standard Projects; two calls / year  
1M < core hours < 10M  
typical request 5M core hours  
duration: 12 months

**Next call is foreseen in summer 2014.**

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- Class C:** Small Projects  
continuous submission, 2 selection per year  
>50.000 core hours  
typical request 1M on FERMI – **Temporarily suspended**  
typical request 50.000 on EURORA  
only one C project approved per year  
duration: 9 months
- Trial:** on demand
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## Call for Projects B

- Next deadline September 2014

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## Call for Projects C

- continuously open, evaluation every month
- next evaluation on 15 April 2014

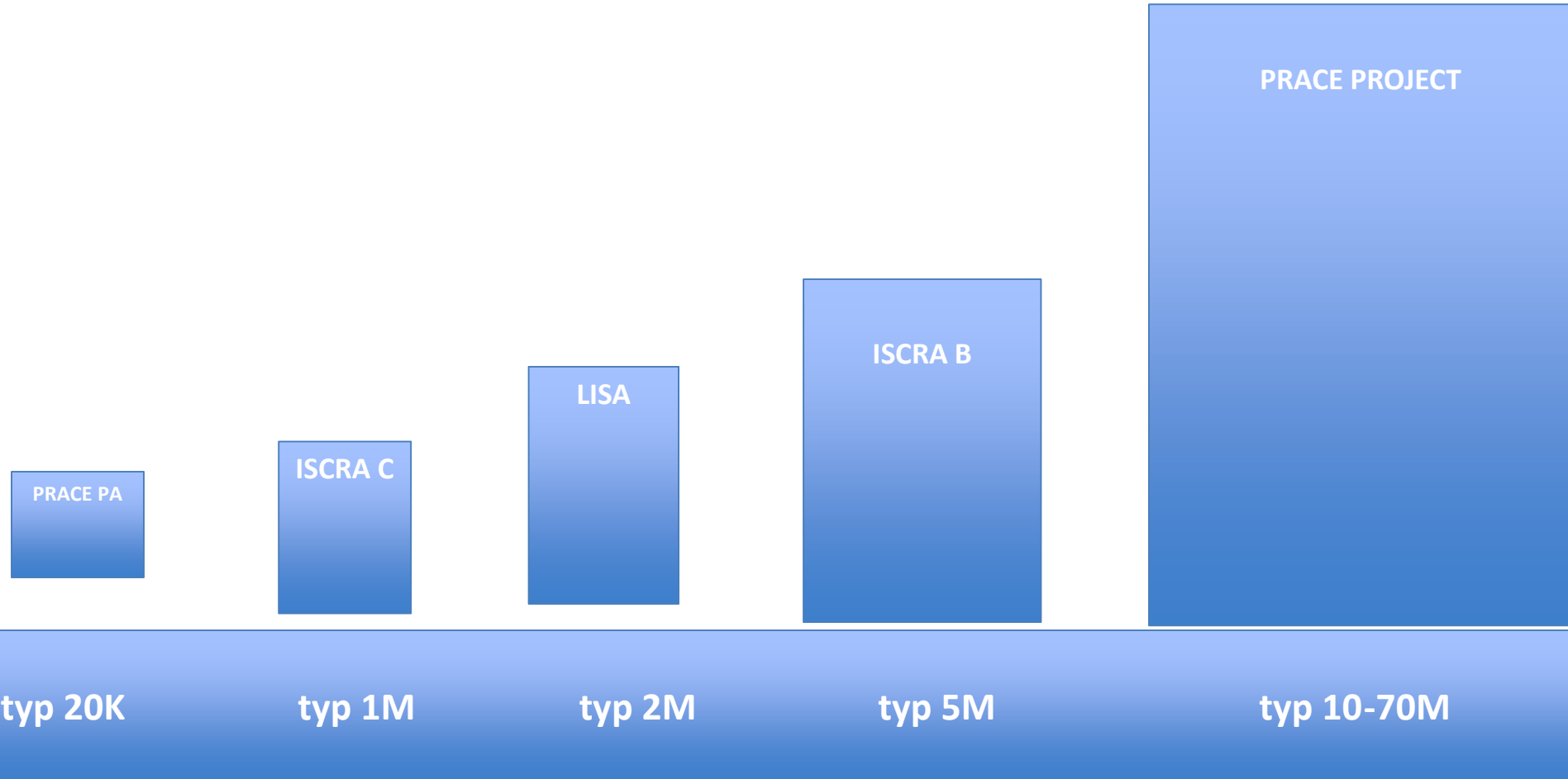
## LISA

Next call June 2014 only for Lombardiaregion,  
development projects

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## Projects dimension



# L'offerta HPC in Europa: PRACE

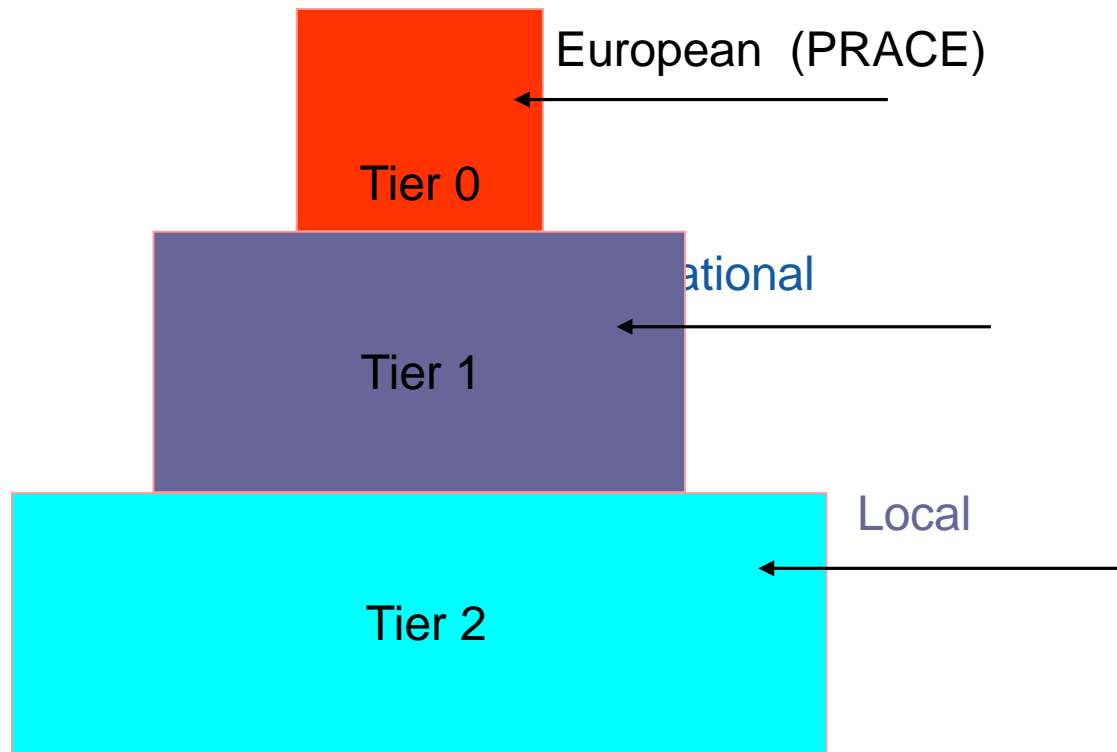
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Europe



# Computing provisioning pyramid



PRACE offers access to Tier 0 (and Tier 1) systems

## 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
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# PRACE Tier 0 Access: CURRENT CALL

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- Applications accepted on call
  - For projects which use codes that have been previously tested and must have demonstrated high scalability and optimisation
  - Next call
    - Closing: March 25th, 2014, 12:00 CEST – Just CLOSED**
    - Access starting date: September, 2014
  - Final report mandatory after the end of the access
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## Call for Proposals for 9<sup>o</sup> PRACE Project Access (Tier-0)

- “FERMI” (CINECA, Italy) IBM Blue Gene/Q
- “JUQUEEN” (GCS@Jülich, Germany) IBM Blue Gene/Q
- “CURIE” (GENCI@CEA, France) Bull x
- “HERMIT” (GCS@HLRS, Germany) Cray X6E
- “SuperMUC” (GCS@LRZ, Germany) IBM System x iDataPlex
- “MareNostrum” (BSC, Spain) IBM System X iDataplex

About 1.300M core hours available

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- <http://www.prace-project.eu/>
  - <http://www.prace-project.eu/PRACE-Project-Access?lang=en>
  - [http://www.prace-project.eu/IMG/pdf/prace\\_call9\\_terms\\_of\\_reference\\_final.pdf](http://www.prace-project.eu/IMG/pdf/prace_call9_terms_of_reference_final.pdf)
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- ISCRA: <http://www.hpc.cineca.it/services/iscra>
  - PRACE: [www.prace-ri.eu/hpc-access?lang=en](http://www.prace-ri.eu/hpc-access?lang=en)
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