



Ciência e Tecnologi

Ministério da Ciência e Tecnologia

## background

- WCGA
  - since 2003 at LNCC
  - in colaboration with NCSA and RNP since 2004
- Involvement in Research Projects on Cyberenvironments (Grids) and Applications since 2002
- · National Lab on Scientific Computing
  - Graduate program on Computational Modeling
- ACM/IFIP/USINIX Workshop on Middleware for Grid Computing MGC
  - since 2003
  - proceedings with ACM digital library, since 2004
- Special Issues on Concurrency and Computation, since 2003 on selected papers from MGC
- Involvement in multiple related Grid projets in the context of RNP Gigabit experimental network
- CTWatch, International Cyberinfrastructure: Activities Around the Globe, Vol. 2(1), Feb. 2006

2 May 06

IV Workshop on Grid Computing and Applications -WCGA 2006

3



Ciência e Tecnologia

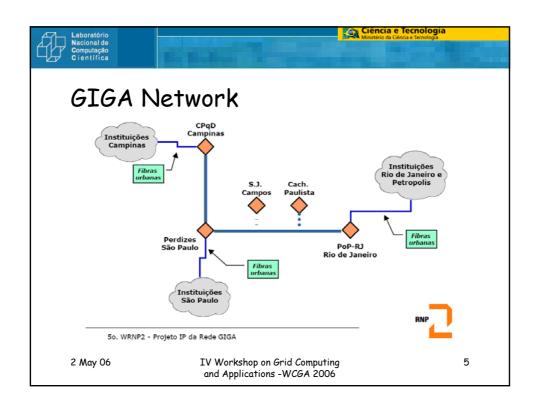
## Engagements in Cyberenvironments

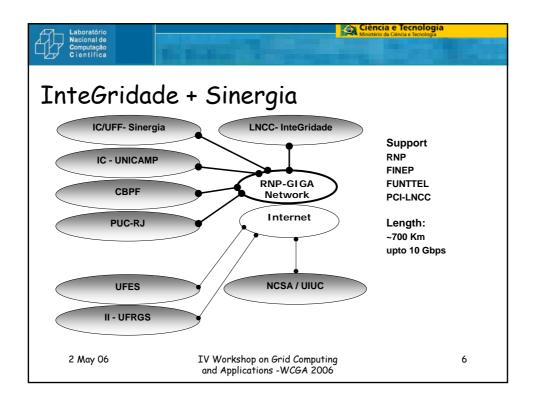
- Security Issues
- · Global Insfrastructure
- · Grid Middleware and Services
- Portals to Specific Applications
- Targeting Universities and Research Centers

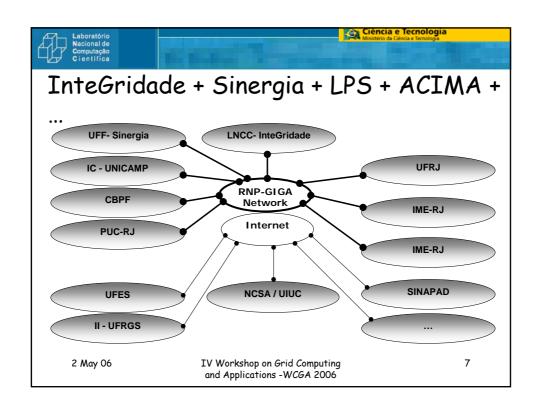
2 May 06

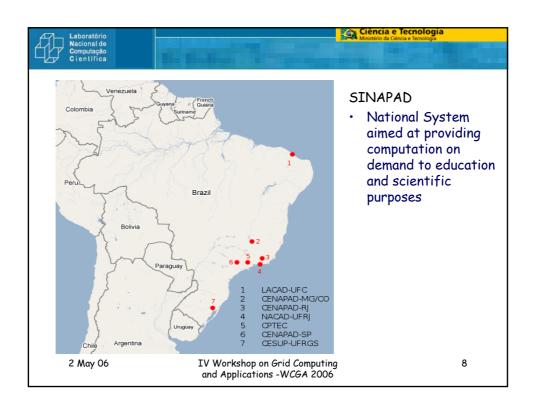
IV Workshop on Grid Computing and Applications -WCGA 2006

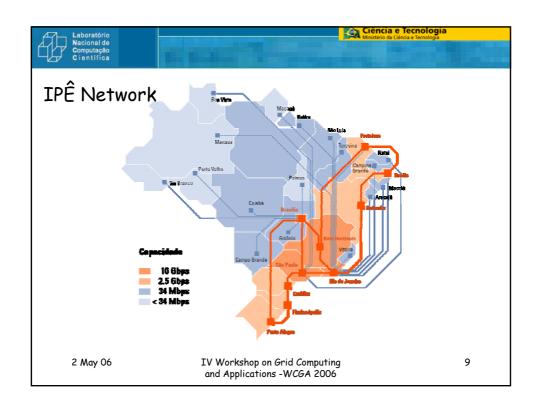
4

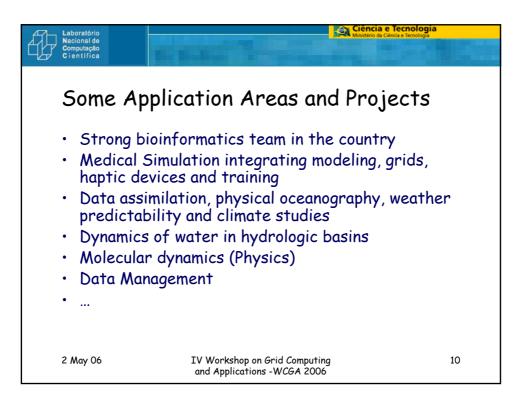


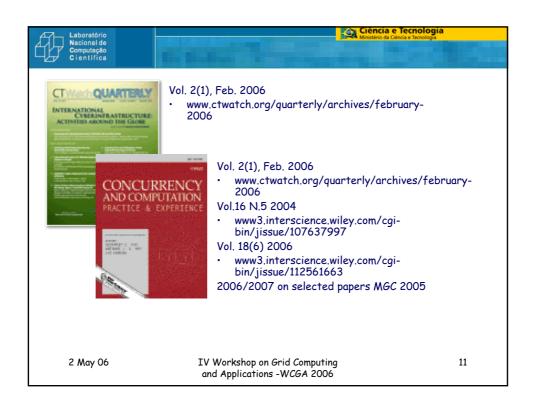


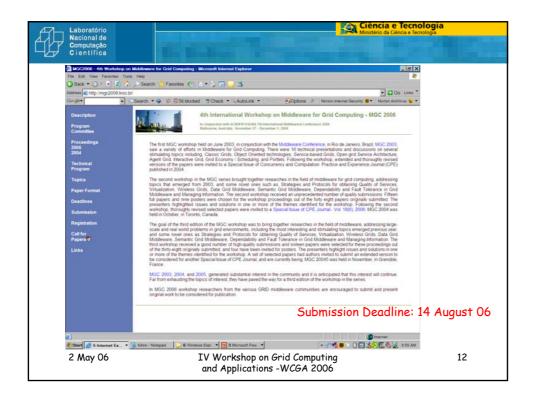


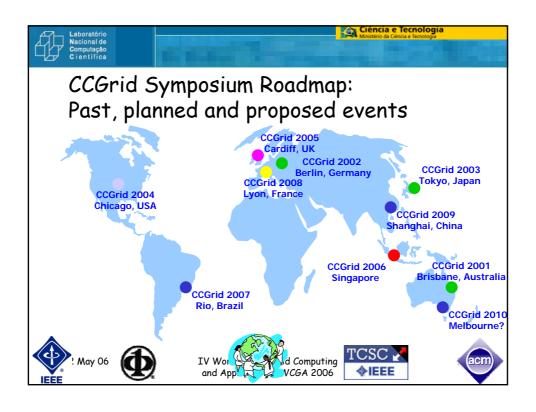


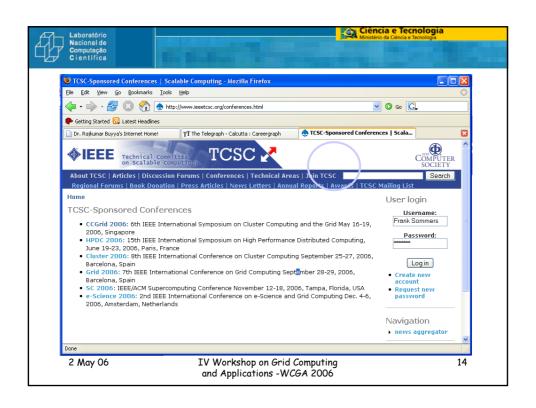




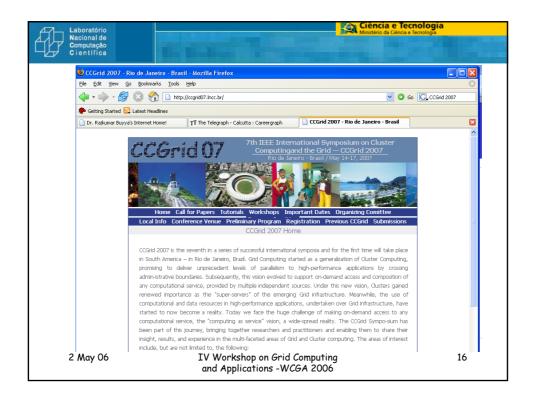














Ciência e Tecnologia

## CCGrid07: Scope

• CCGrid 2007 will be the seventh in a series of successful international symposia and for the first time will take place in South America - in Rio de Janeiro, Brazil. Grid Computing started as a generalization of Cluster Computing, promising to deliver unprecedent levels of parallelism to high-performance applications by crossing administrative boundaries. Subsequently, this vision evolved to support on-demand access and composition of any computational service, provided by multiple independent sources. Under this new vision, Clusters gained renewed importance as the "super-servers" of the emerging Grid infrastructure. Meanwhile, the use of computational and data resources in high-performance applications, undertaken over Grid infrastructure, have started to now become a reality. Today we face the huge challenge of making on-demand access to any computational service, the "computing as service" vision, a wide-spread reality. The CCGrid Symposia has been part of this journey, bringing together researchers and practitioners and enabling them to share their insight, results, and experience in the multi-faceted areas of Grid and Cluster computing.

2 May 06

IV Workshop on Grid Computing and Applications -WCGA 2006

17



Ciência e Tecnologia

## CCGrid07: Some Topics

- · Grid Architectures and Systems
- Middleware for Clusters and Grids
- · Resource Management
- Peer-to-Peer Systems
- Grid-based Problem Solving Environments
- · Grid Trust and Security
- $\cdot \quad \textit{Community networks} \\$
- Scheduling and Load Balancing
- Parallel and Wide-Area File Systems

- · Grid Economies and Service Architectures
- Programming Models, Tools, and Environments
- Performance Evaluation and Modeling
- Utility Computing Models for Clusters and Grids
- Service Composition and Orchestration
- Community and collaborative computing networks
- Scientific, Engineering, and Commercial Applications
- Support for Self-Managing/Self-Configuring Grid Infrastructure

2 May 06

IV Workshop on Grid Computing and Applications -WCGA 2006

18

