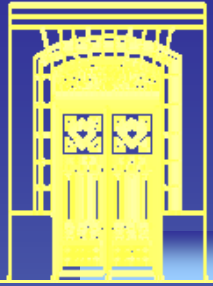


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ROUND TABLE

GRID Computing Today and Tomorrow

23-10-2006



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Jesús Marco

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23-10-2006



e-Science key: **COLLABORATION**

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MARCO

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● An increasing problem: fragmentation of knowledge

- ▣ Too many fields
- ▣ Large information
- ▣ Complex modeling

● Why collaboration is so important?

- ▣ Projects: big success in Industry and in Science
- ▣ Add Globalization...

● Why collaboration is so difficult?

- ▣ Who were Newton collaborators?
- ▣ What do you understand by “collaboration” today?
- ▣ How can we support collaboration in the (post)-Internet era?



Where do we **WANT** to go (in Science)?

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➊ Keep advancing in “classical way”

➋ New Challenges

- ▣ Whole Universe Model
- ▣ Simulate a Complete Cell
- ▣ Real Simulation of the Human Body
- ▣ New, complex, proposals, not limited by capacities
 - Understanding better the Brain

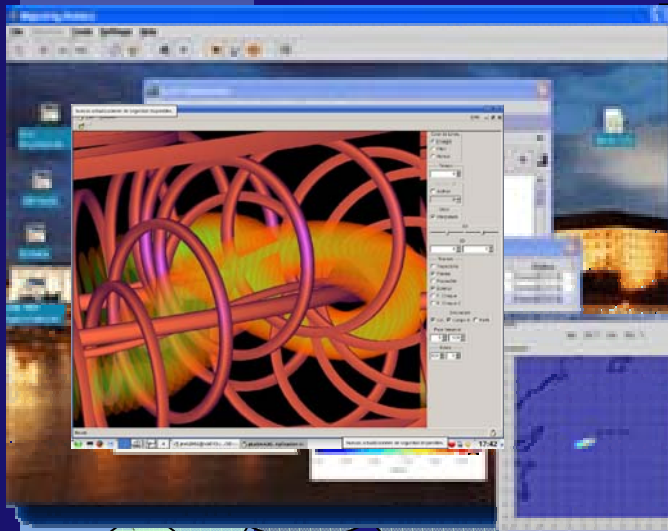
➌ Related topics

- ▣ Digital Curation
- ▣ Knowledge Extraction
- ▣ Interactive Collaboration
- ▣ Integration of Instrumentation

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Model for **Collaboration** for all actors
(centers, developers, researchers)
based on **Grid technology**

LCG Broker

LCG CE

VOMS

Resource Center A

CrossBroker

VO: Applications, Users

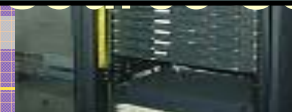
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www.interactive-grid.eu

-if you are a Researcher who needs HPC for a **challenging project** with colleagues around the world
 -if you represent a Resource Center and want to offer HPC to first class researchers
 -or if simply you just like the idea!
Collaborate with us!

SE SRM





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