



Enabling Grids for E-science

# Fusion Session: Envisaged Fusion Activities within EGEE - III

*F. Castejón (CIEMAT)*

*Fusion Cluster Leader*

*francisco.castejon@ciemat.es*

*Egee08, Istanbul (Turkey)*

*22 - 26 September 2008*

[www.eu-egee.org](http://www.eu-egee.org)



Information Society  
and Media



- **Three main lines of activity:**
  - Application Porting (Leadership CIEMAT).
  - Data Management (Leadership Kurchatov).
  - Workflows (Leadership CEA). Unfunded under EGEE, Funded by EUFORIA Project.
- **Long time for discussion on these three lines is allocated in this session.**
- **We need to reach a consensus on what to do.**

**- 14:05 – 14:30 Application porting.**

**Francisco Castejón (15 min. Talk + 10 min. discussion)**

**- 14:30 – 15:00 Data Management.**

**Nikolay Marusov (15 min. Talk + 15 min. discussion)**

**- 15:00 – 15:30 Workflows.**

**Pierrick Micout (15 min. Talk + 15 min. discussion)**

## **EUFORIA: EU fusion for ITER Application**

- **Described in detail in Pierrick Micout's talk.**
- **Provide a work & infrastructure frame for fusion simulation, linking fusion, grid and supercomputing communities.**
- **Improve the modelization capacities for ITER through the adaptation, optimization, and integration of a set of applications that can explain and join the core-edge transport.**
- **Bridge among fusion, HPC, and grid communities.**
- **ISSUE: Relation between EGEE and EUFORIA**

# **EUFORIA: EU fusion for ITER Application**

Joint Research Activities:

**JRA1: Adaptation of codes and tools for Grid infrastructure**

*JRA2: Adaptation of codes and tools for HPC infrastructure*

**JRA3: Physics integration/Workflows orchestration tools**

*JRA4: Visualization*

Service activities/Infrastructure deployment and Operation

**SA1: Grid Infrastructure**

*SA2: HPC infrastructure*

*SA3: User Support for HPC and Grid activities*

Networking activities:

**NA1: Management**

**NA2: User Document and Training**

**NA3: Dissemination**

# **EUFORIA: EU fusion for ITER Application**

- **Special attention to**
  - **Grid applications (JRA1): Which application gridified under which project (not to be paid twice for the same work).**
  - **SA1: The role of EUFORIA test bed.**
  - **JRA3: the use of Kepler as workflow engine EUFORIA and EGEE.**