

Fusion SSC

F. Castejón

Asociación Euratom/CIEMAT para Fusión

francisco.castejon@ciemat.es

Athens, May 5th-6th, 2009

Create a Fusion SSC:

Russia: Kurchatov.

Poland: Poznan Supercomputing and Networking Center.

Germany: FZK, FJK.

Spain: CIEMAT, BIFI-UZ, IFCA.

OTHERS: TBD

Moscow State Universty, MEPHI, MPTI, Trinita,

UCM(?), ENEA (?), CEA (?),

NIFS-Japan (?), GA-PPPL-ORNL-USA (?),

CBPF-Sao Paolo-Brazil (?)

Is it possible to integrate non-EU Partners?

What is the relation with ITER?

Relation with other projects:

EDGES

EUFORIA

...

NGIs: Spain, Poland, Germany, ... More?

The European community well integrated in their NGIs

Representatives of the involved NGIs invited to the Steering Committee.

- **Give support to ITER**
- **Exploit e-infrastructures for Fusion research.**
- **Give support for the remainder of Fusion Community.**
- **Develop services useful for Fusion research (and other activities).**
- **Relations of Fusion Community with EGI.**
- **Relations with NGIs.**

- **Application Porting & Exploitation: 3 FTE**
 - Selection of suitable codes.
 - Porting of the codes.
 - Contact with code owners for exploitation
- **Services development: 2.5 FTE**
 - Middleware and portals for friendly running applications.
 - Connection with NGIs.
- **Workflows: 2.5 FTE**
 - Maintenance of workflow engines.
 - Plugging applications to the workflows.
- **Data Management: 2 FTE**
 - Multi-machine data works.
 - Multi-access to a single machine data.
- **PRELIMINARY ESTIMATE: 10 FTEs**

- **Leader**
- **Steering Committee: composed by Task Force Leaders + Representative of NGIs**
- **Task Forces.**
- **All-hands meeting.**

- **CONTACTS WITH OTHER SSCs:**
 - The SC is in charge of the relations.
 - Sharing developments with other SSCs (e. g. HEP)

- **Funding from EU expected.**
- **NGIs guarantee the infrastructure sustainability.**
- **Middleware: In principle the same solution as for NGIs.**
- **Funding from National Programmes**

- **Web Page.**
- **Grid Computing Conferences & Publications.**
- **Fusion conferences: EPS, IAEA, SW, ...**
- **Fusion Journals.**
- **Other communities?**
- **Volunteer computing as a tool for General Public dissemination.**

- **First talks in Catania UF.**
- **Mail contacts during this time.**
- **Composition by September.**
- **Ready for September call.**
- **Meeting during EGEE09.**
- **READY TO GO IN THE END OF 2009.**
- **Kick off Meeting in the beginning of 2010.**