

EUFORIA

EU Fusion for Iter Applications

and the role of standards



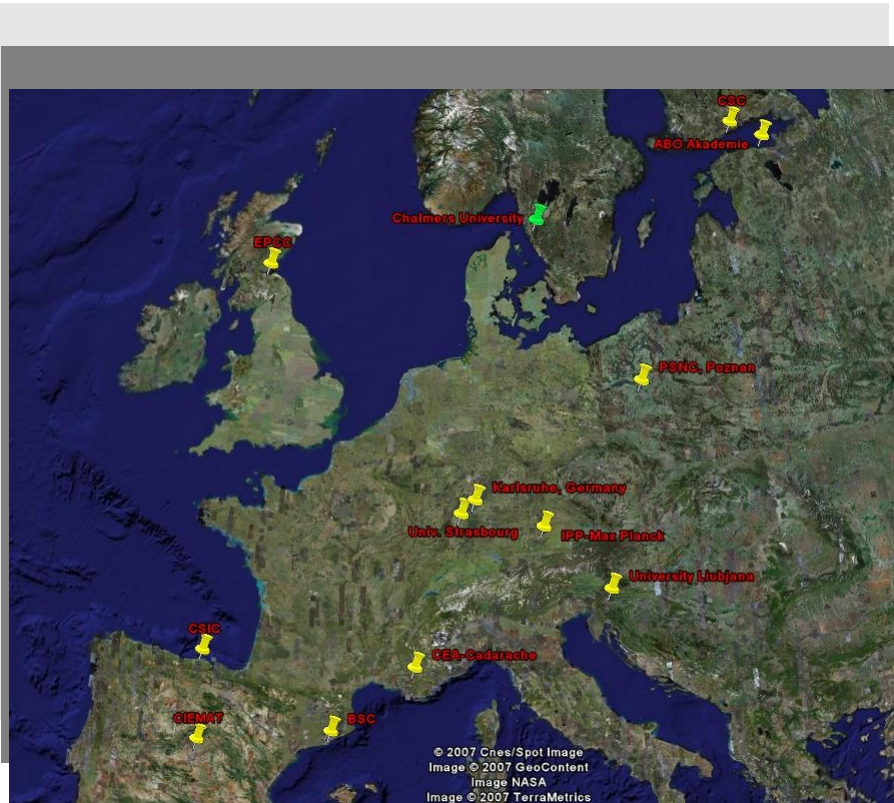
4th e-Infrastructure Concertation Event
Sophia-Antipolis, 5th-6th December 2007



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Consortium members



- Fusion Scientist
- Grid Computing Expertise
- HPC Centers

Chalmers Univ. (Goteborg, Sweden)

CSIC (Santander, Spain)

CIEMAT (Madrid, Spain)

BSC (Barcelona, Spain)

CEA (Cadarache, France)

Strasbourg Univ. (Strasbourg, France)

FZK (Karlsruhe, Germany)

IPP (Munich, Germany)

EPCC (Edinburgh, UK)

CSC (Helsinki, Finland)

ABO Akademie (Helsinki, Finland)

PSNC (Poznan, Poland)

Univ. Liubjana (Liubjana, Slovenia)

ENEA (Italy)



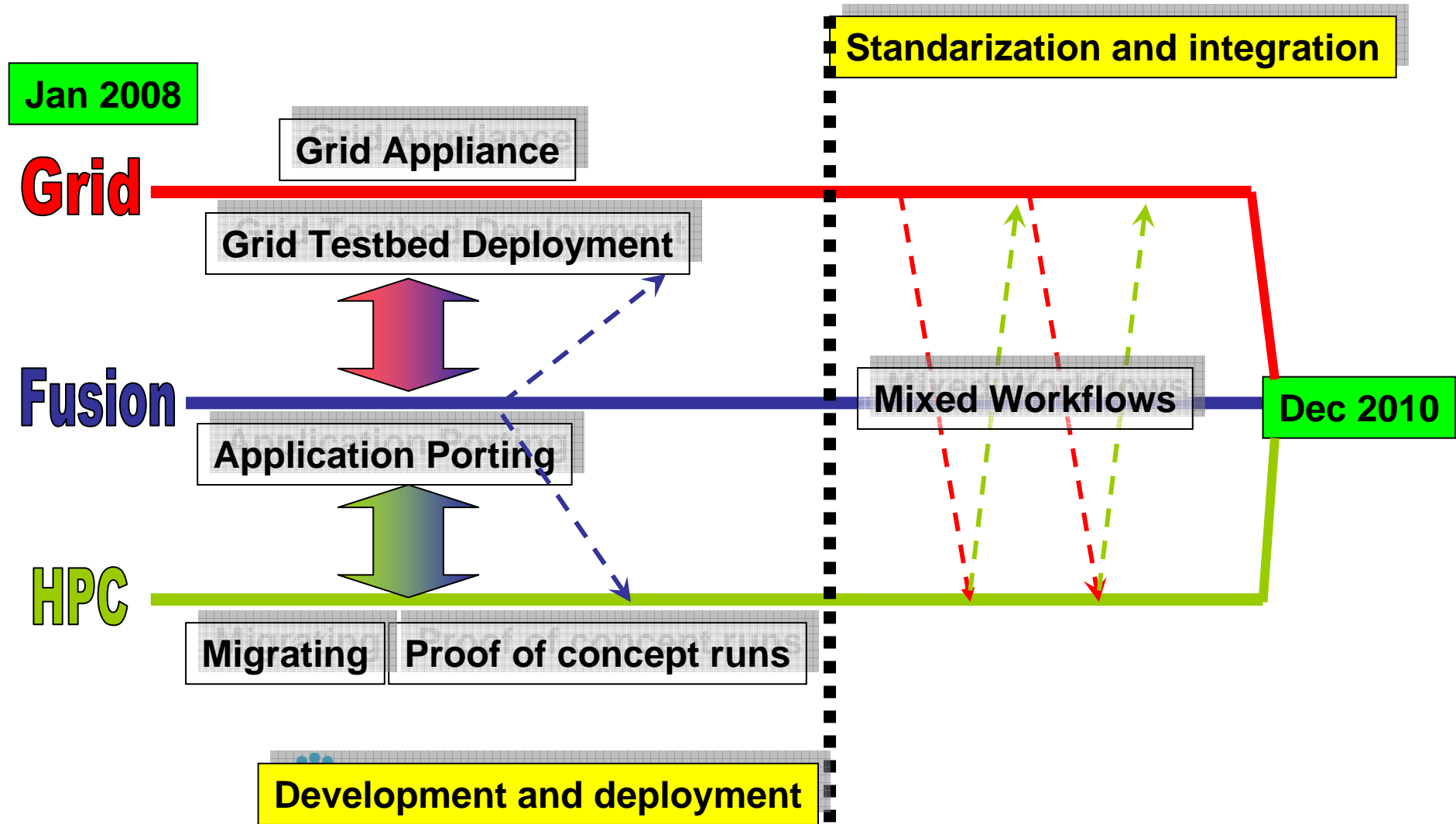
Project objectives

Bringing a comprehensive framework and e-infrastructure to the fusion modelling community oriented to the development of ITER

- Deployment of Grid and HPC infrastructure
 - What does this mean exactly
- Adaptation and Optimization of Fusion Codes
 - Platform oriented Grid and/or HPC
- Development of advanced tools for
 - Workflow management
 - Visualization tools
 - Data mining



Work plan outline



Standards related work

- **Adoption of Grid**
 - Virtualization of core services
 - Interoperation
- **User Services**
 - Data management
 - **Uniform access tools**
 - Membership handling
 - **Certified by EUGridPMA and run everywhere**
- **Complex Workflows**
 - Job submission
 - Resource Allocation
 - Data retrieval

