

## The S.Co.P.E. Project

Wednesday 9 May 2007 17:30 (20 minutes)

**Describe the scientific/technical community and the scientific/technical activity using (planning to use) the EGEE infrastructure. A high-level description is needed (neither a detailed specialist report nor a list of references).**

The University of Naples "Federico II" is one of the great Universities of Italy and is employed in the main fields of the fundamental research, in strong collaboration with the INFN Naples Unit. More than 1000 people that include Professors, researchers, phd students and technicians work in the computational sciences for many different applications that we divided in three different areas:

- Microcosmic and Macrocosmic Sciences, Life Sciences, Matter and Environmental Sciences.

**Report on the experience (or the proposed activity). It would be very important to mention key services which are essential for the success of your activity on the EGEE infrastructure.**

We plan to implement in Metropolitan scale all the main Grid services available in gLite. In this context the Workload Management Services will be very important to facilitate the access to the Grid and the Grid monitoring to manage the system. Very important will be the choice of the best interface to simplify the access to the Grid at the new user (shell and graphical interface available). Finally the S.Co.P.E. Project promote the implementation in local scale of new services or new implementation of already existing services in a limited and simplex testbed environment in order to contribute at the Grid reserach.

**With a forward look to future evolution, discuss the issues you have encountered (or that you expect) in using the EGEE infrastructure. Wherever possible, point out the experience limitations (both in terms of existing services or missing functionality)**

I think that will be useful a metadata system based on a relational model. Currently we can add only a label for each file register in a catalog. However from the experience in data analysis in the within of the VIRGO Experiment, appare the necessity of having more fields appears in order to

execute file searches  
based on the metadata.

**Describe the added value of the Grid for the scientific/technical activity you (plan to) do on the Grid. This should include the scale of the activity and of the potential user community and the relevance for other scientific or business applications**

We plan to create a great example of Metropolitan Area Grid between all the University department's distributed in 4 big site in the City of Naples, in order to have a single interface to the heterogeneous resources. The first step are the implementation of a new computational centre in the site of M.S.Angelo and the integration with the already available and distributed resources. The goal is obtain an improvement of the scientific results by using in a more efficient way the existing hardware and promoting a grid dissemination. At first, the system will be used from all the researchers of the University "Federico II", INFN and of other local research institutes and from local industrial partners, respectively for fundamental research applications in the 3 fields of Microcosmic and Macrocosmic Sciences, Life Sciences, Matter and Environmental Sciences and for business applications.

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