The EU DataGrid Project Tutorial

**The European
DataGrid Project Team**

http://www.eu-datagrid.org

Introduction

- The tutorials are aimed at users wishing to learn how to use EDG Grid tools and are organized over 2 full consecutive days as follows:

  - Mornings - presentations on general Grid concepts, user interface commands, grid components, future directions.

  - Afternoons - hands-on exercises covering user interface operations with job submission, aspects of data management and job monitoring

- Pre-requisites for participants:

  - No prior knowledge is required for the presentations.

  - Basic knowledge of Linux user environment (shells, editor, etc.) is necessary to complete the exercises.

- Participants must be pre-registered for the afternoon hands-on sessions since security certificates need to be issued to use the EDG testbed.

Schedule

DAY1

- Tutorial introduction
  Heinz Stockinger

- Introduction to Grid computing and overview of the DataGrid project
  Heinz Stockinger

- Security
  Heinz Stockinger

Coffee

- Testbed overview
  Flavia Donno

- Job Submission
  Flavia Donno

Lunch

- hands-on exercises: job submission

DAY2

- Data Management
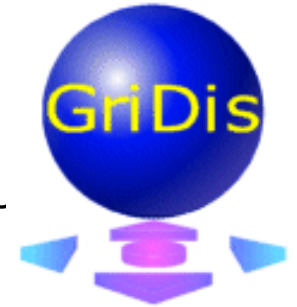 **Heinz Stockinger**

- Information systems
  Flavia Donno

Coffee

- EDG Software Installation/Configuration
  Flavia Donno

- Applications and Use cases
  Heinz Stockinger
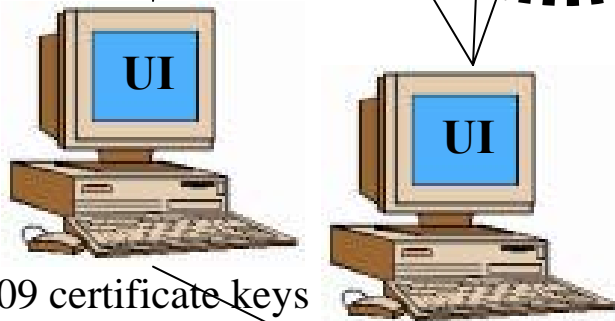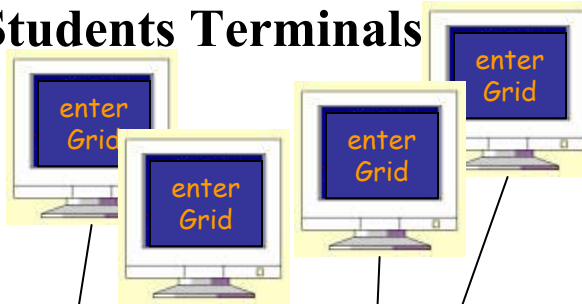
- Future Directions
  Heinz Stockinger

Lunch

- hands-on exercises: data mgmt & info systems

Hands-on Exercises
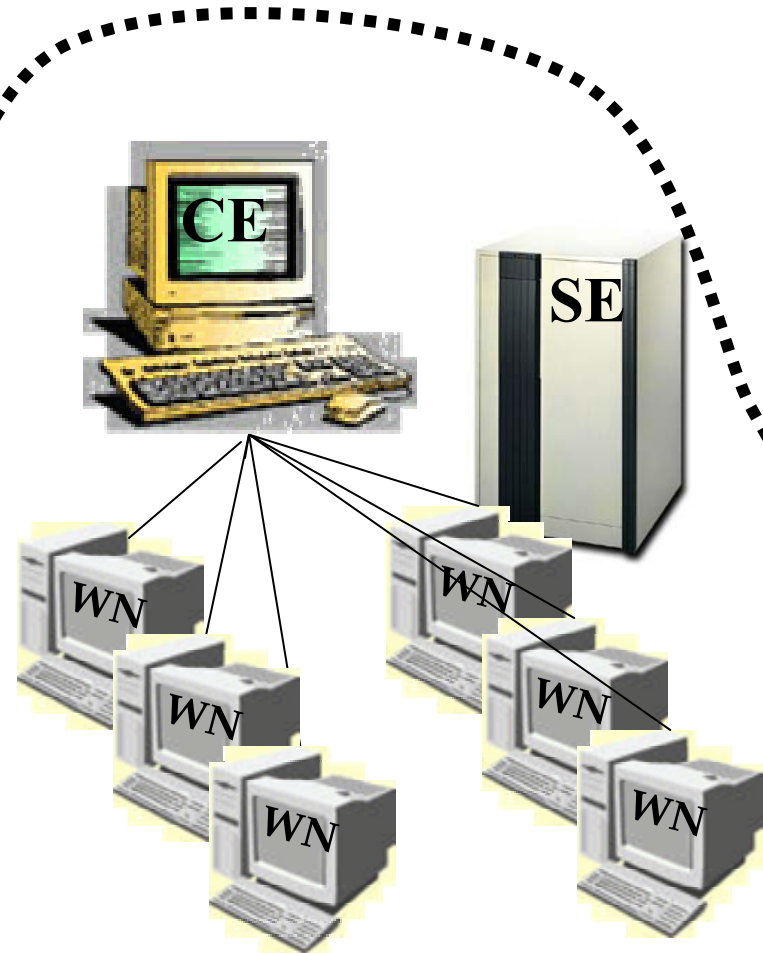
- ◆ Working on Linux machines, you will connect to the
  - NCP LCG-1 Testbed (running EDG-2--)
  - This requires a security certificate and a user account on the User Interface machine

- ◆ You will receive an exercise handout containing all the details of the exercises
  - Succession of increasingly sophisticated exercises exploring the different facilities of the EDG software
  - You work at your own pace
  - tutors are around in case you have questions or run into problem

- ◆ Required tools:
  - Acccess to testbed via secure shell (or equivalent)
    - E.g. teraterm for Windows
  - Web browser

Students Terminals

enter Grid

enter Grid

enter Grid

enter Grid

CE

SE

UI

UI

WN

WN

WN

WN

WN

WN

- PKI X.509 certificate keys
- JDL files

RB/II

We want your feedback

- Your feedback is actively sought

  - Please tell us of mistakes in the presentations

  - Similarly for the exercises

  - Please fill in feedback-form

- Thanks to:

  - all the many people from the EDG cooperation who contributed to the development of the tutorials over the past year.