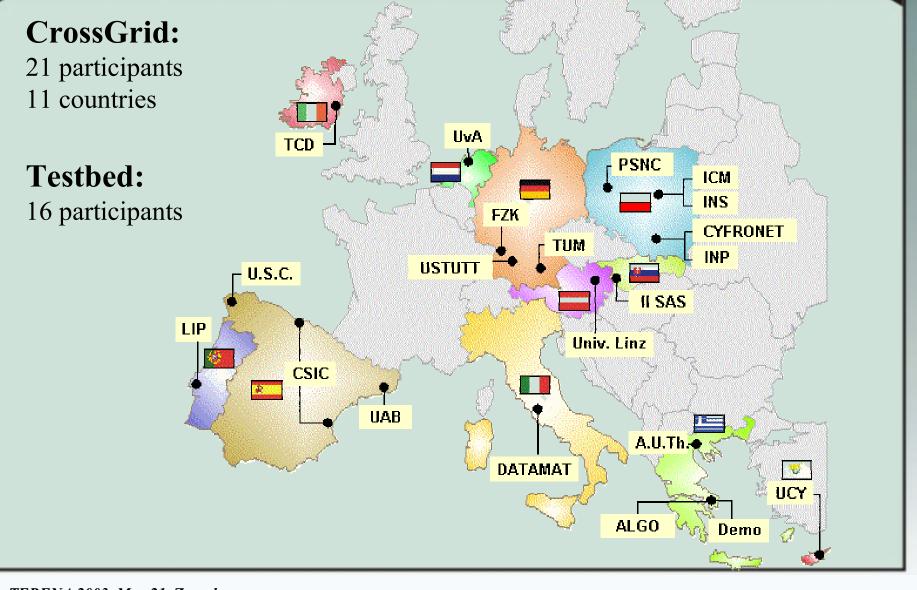
**TERENA** Networking Conference, 2003

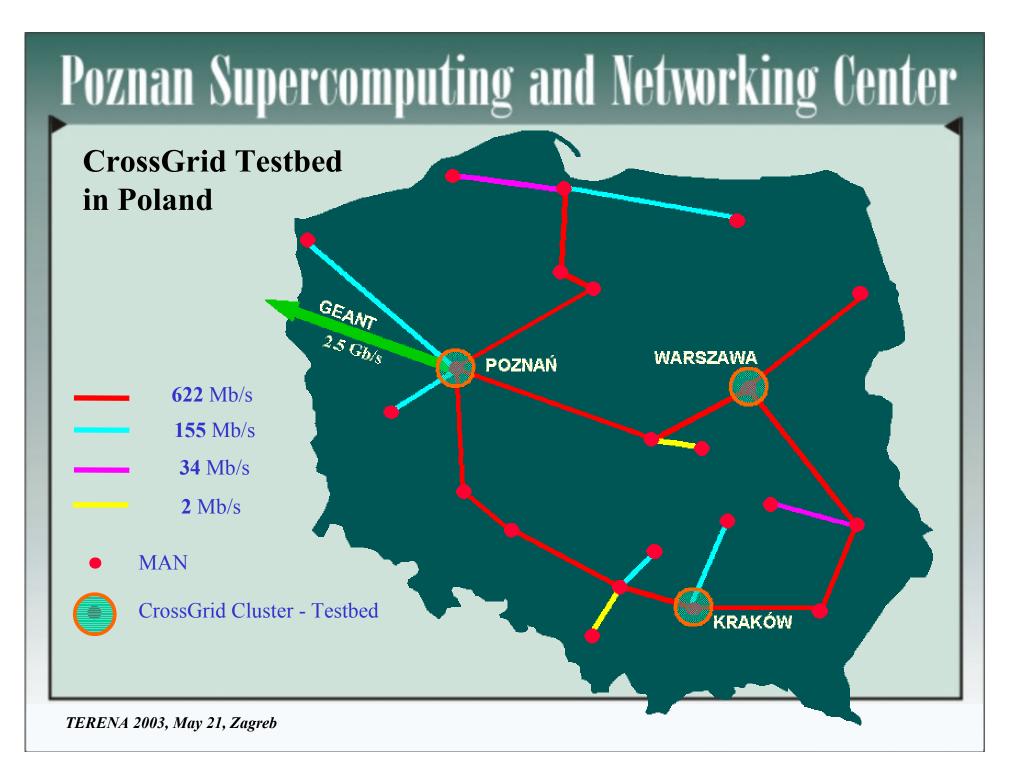


#### MOBILE WORK ENVIRONMENT FOR GRID USERS. TESTBED

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## **CrossGrid testbed resources**

Production testbed		Validation testbed	
Computing Elements	15	Computing Elements	3
Worker nodes	69	Worker nodes	4
CPUs	115	CPUs	5
Storage elements	14	Storage Elements	3
Storage capacity	2.7TB	Storage capacity	1.2TB

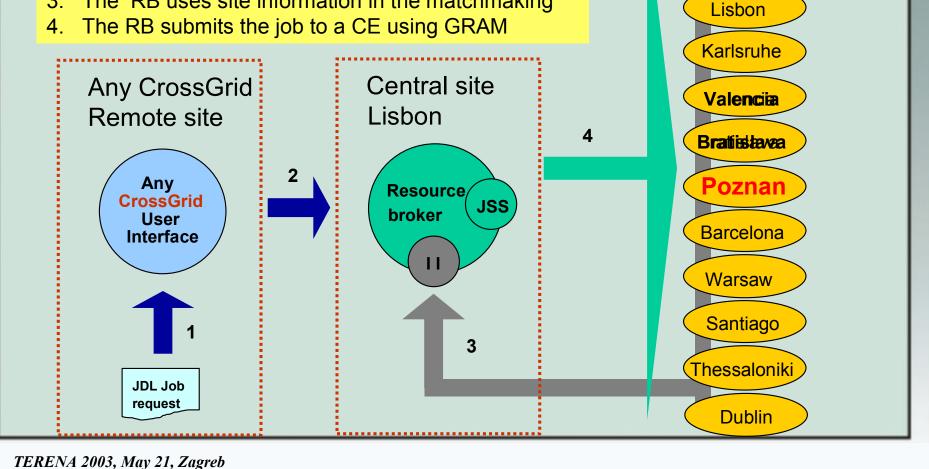
Interfaces: Fast Ethernet Gigabit Ethernet

#### **Production Resource Broker**

Athens

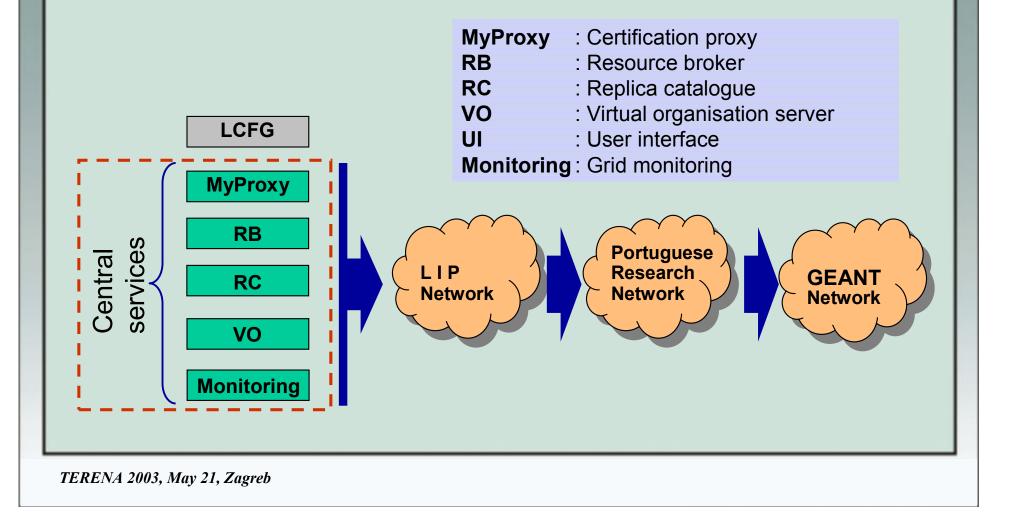
Cracow

- Job requests are submitted from remote UIs
- Jobs are sent to the RB located at LIP 2
- 3. The RB uses site information in the matchmaking



## **Production services**

The CrossGrid production central services are located in Lisbon



## **Available services**

#### Resource Broker

- Matchmaking and load balancing scheduler.
- Performs load sharing across CrossGrid sites.

#### Certificate Proxy server

- Short lived certificates for long lived processes.
- Used by the applications portal and by the RB.

#### Virtual Organizations server

- Database for user authentication.
- Is used to build the authorization databases of all CrossGrid sites.

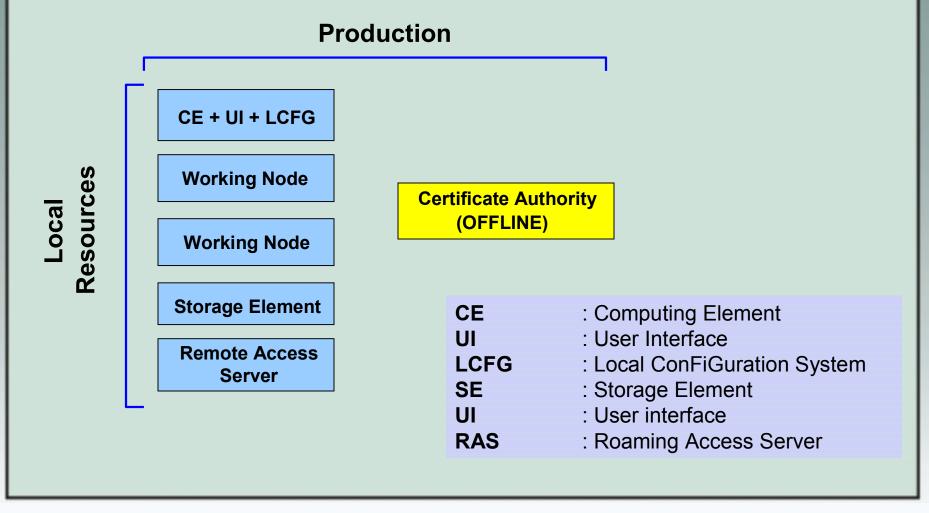
#### Replica Catalogue

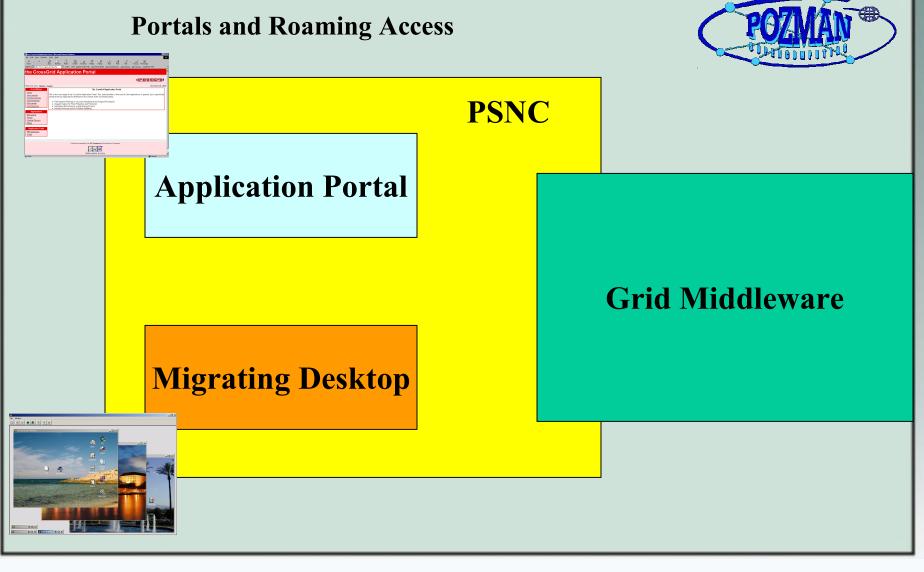
- Database for physical replica file location.
- Central service to find the location of files in SEs.

#### Network and Grid Monitoring

- Early detection of problems in the CrossGrid testbed.

### **Production systems hosted at PSNC**





#### **Crossgrid Graphical User Interfaces**

#### **Portal (CrossGrid Application Portal):**

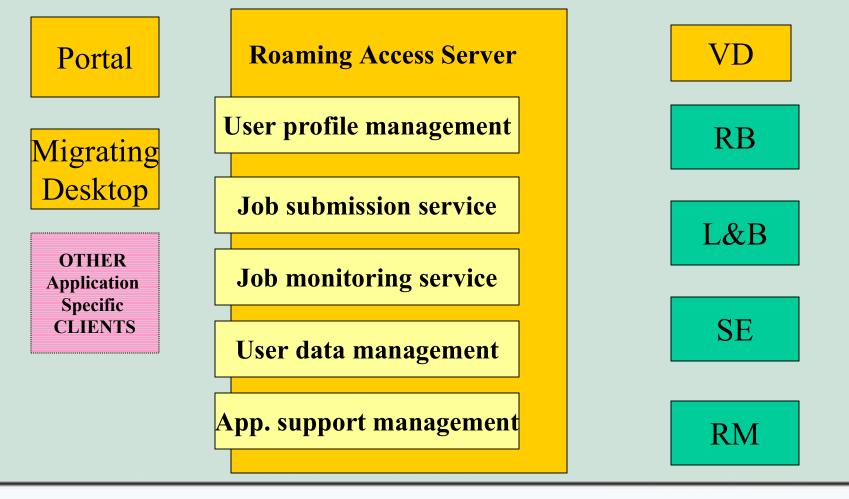
- Specific application oriented GUI
- Only basic GUI functionality (html,php)
- \* Usage: system without java eg. internet cafe, airport
- \* Thin client

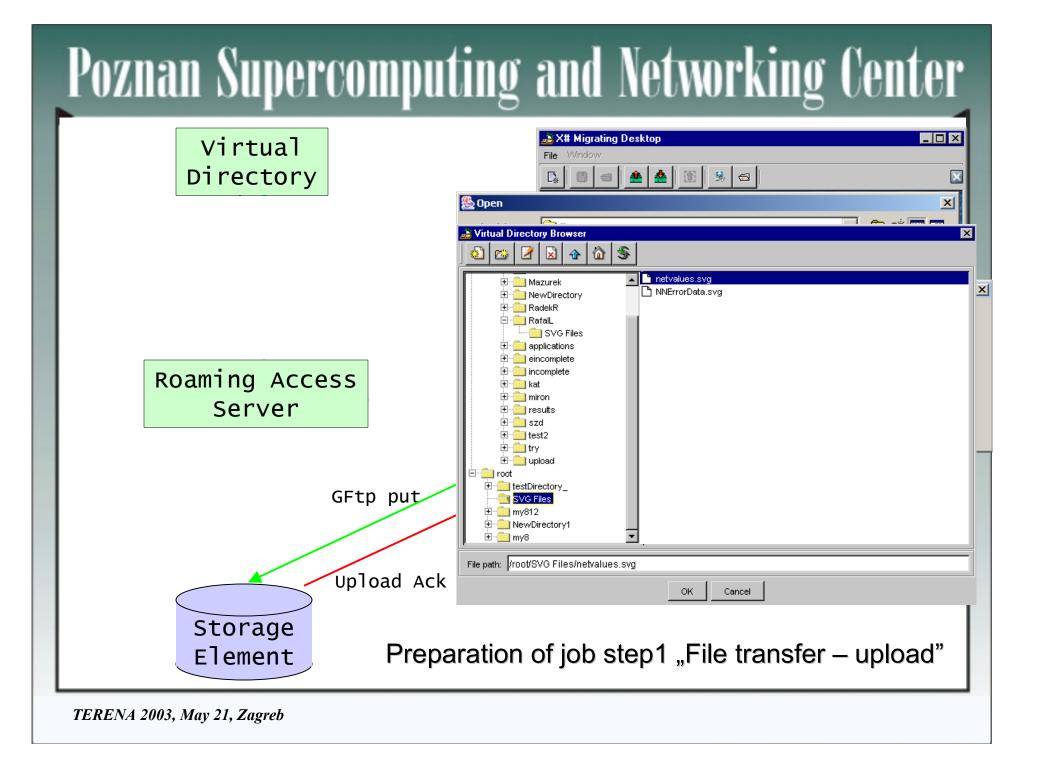
#### Migrating desktop:

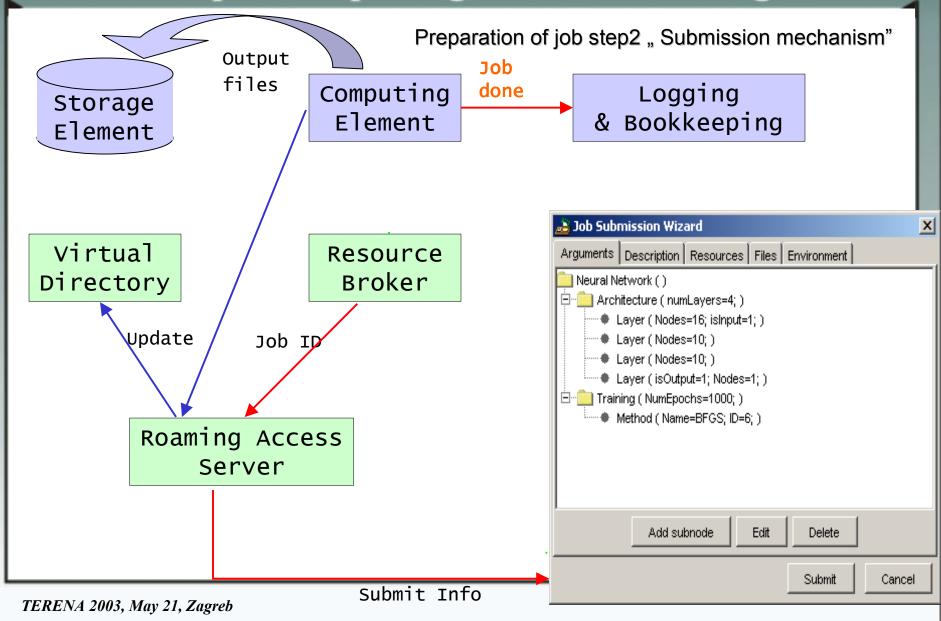
- \* More sophisticated user friendly Java based GUI
- \* Whole environement for grid user (CrossGrid user)
- \* Possibility of working with many grids at once
- Integration of many crossgrid tools
- \* Local and grid application support
- \* Local and grid file management

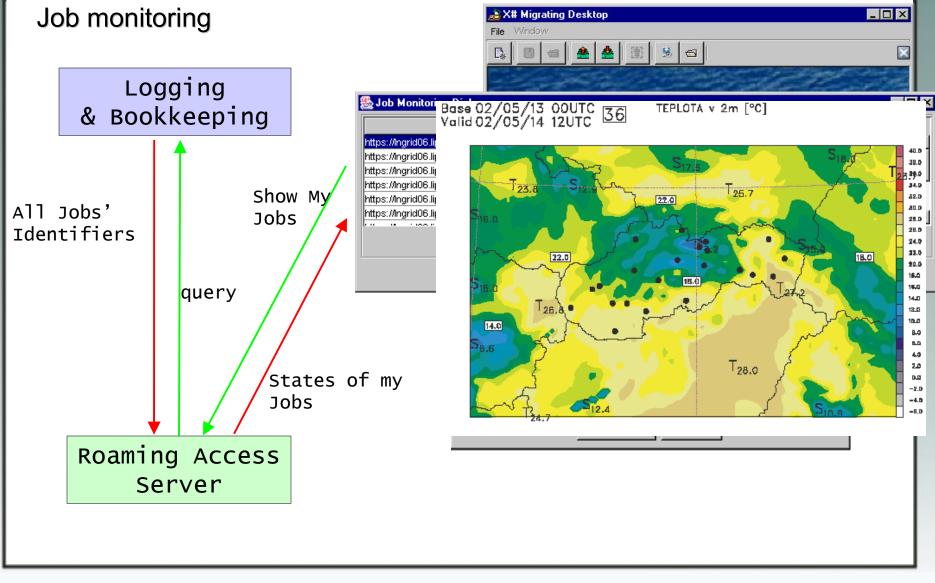
LDAP











## Summary...

- We offer the new service for open network environment.
- It allows the restoring the user environment on every java enabled workstation.
- Support for grid applications.
- The project is co-funded by EU: IST-2001-32243

