



P-GRADE Portal hands-on

Miklos Kozlovsky

Varenna, 15. May, 2007.



The GILDA training VO

<https://gilda.ct.infn.it>



- **gLite 3** middleware
- Third party tools including a P-GRADE Portal installation
- **ANYBODY** can join GILDA VO and get an account on the GILDA P-GRADE Portal
- To provide environment for trainers, students and grid application developers



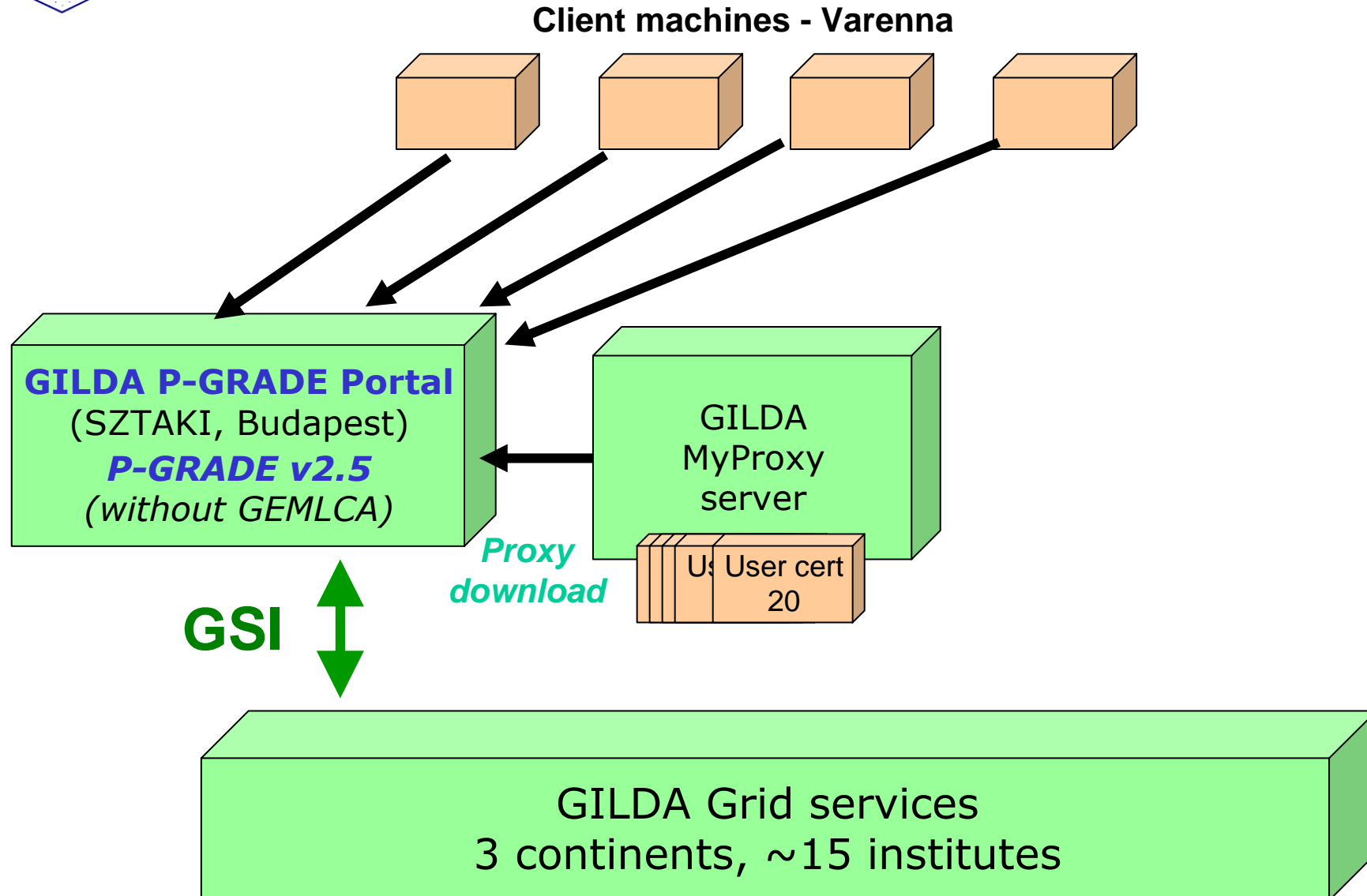
Situation today



- Tutors obtained certificates from GILDA CA
- Tutors registered these certificates at GILDA VO
- Tutors copied these certificates onto the **glite-tutor.ct.infn.it** UI machine
- Tutors uploaded proxies from these certificates into **grid001.ct.infn.it** MyProxy server
- Tutorial starts at this point...



Infrastructure



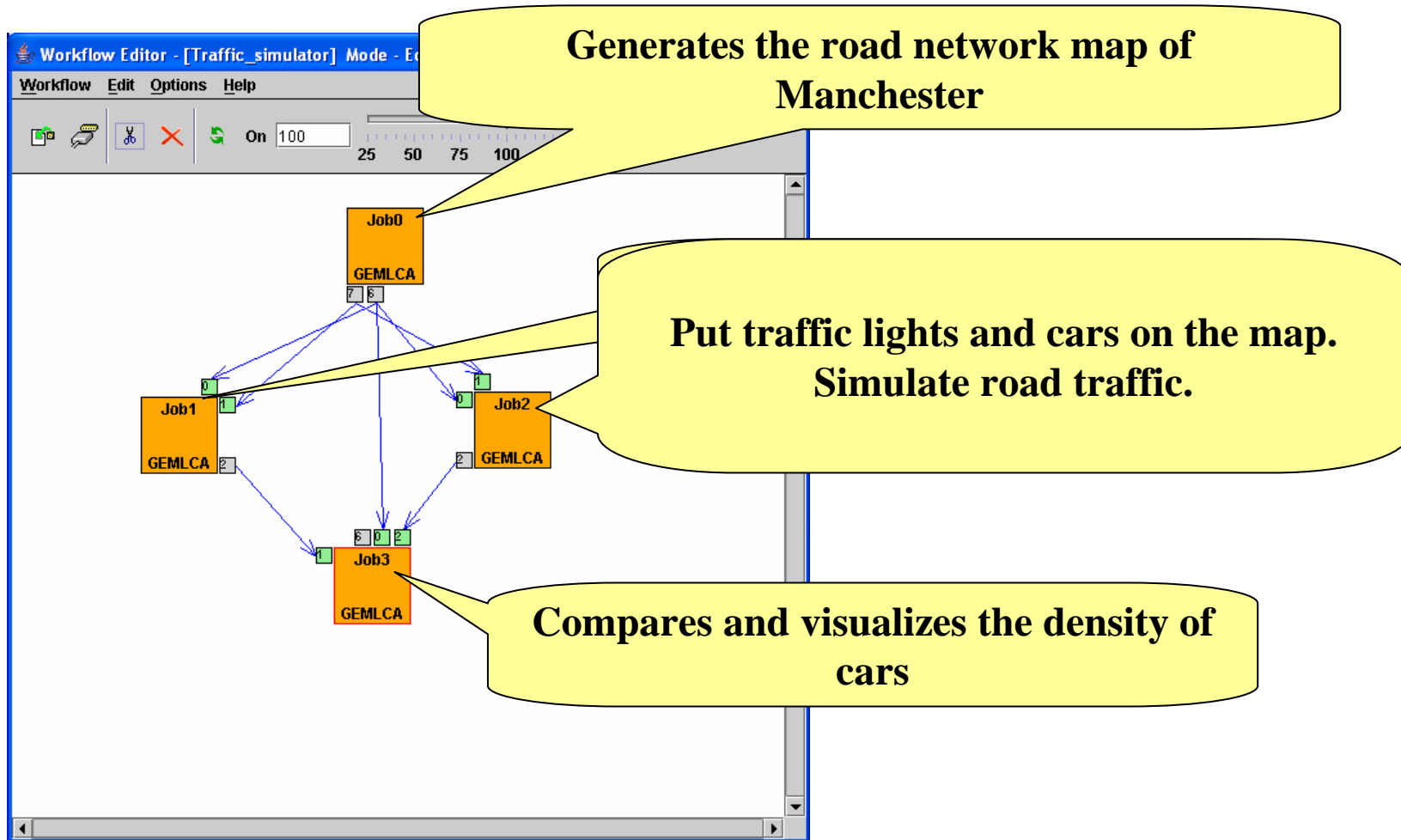


Exercise 1

Import and execute a pre-defined application



Traffic simulation





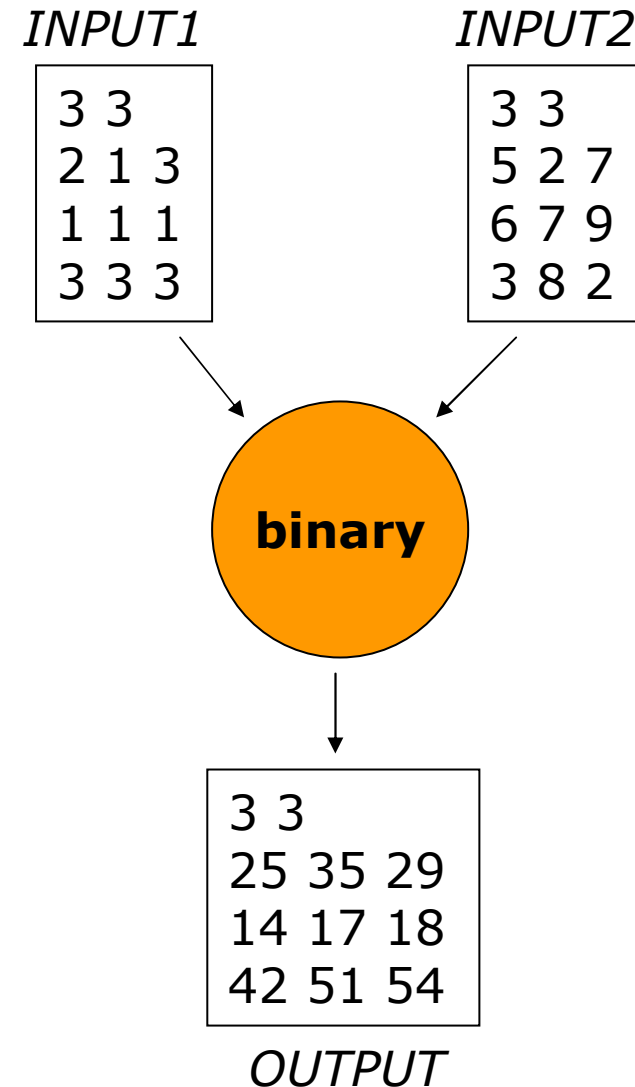
Exercise 2

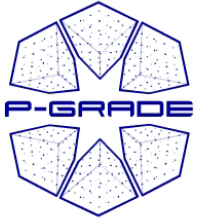
Develop a matrix multiplication workflow



Matrix operations job

- C code
- Compiled on EGEE grid
- Reads matrixes from two files called **INPUT1** and **INPUT2**
- Writes result matrix into file called **OUTPUT**
- Controllable by command line parameters
- Local execution
`./multiply M V`



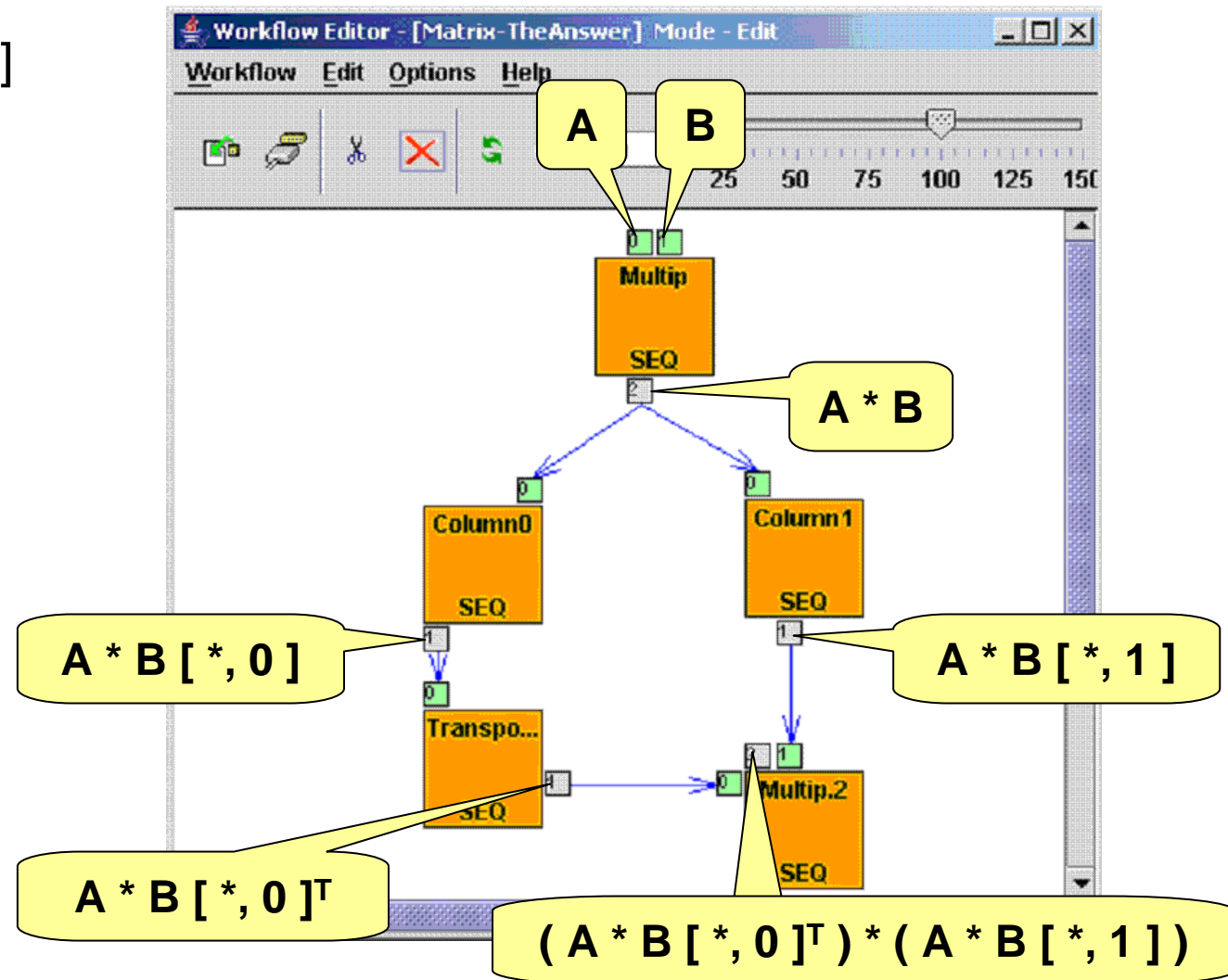


Exercise 3



Define a complex workflow using the MatrixOperations job

- $AB[* , 0]^T * AB[* , 1]$





Tips and tricks



- Exclude an erroneous site from the brokering process:

1. Open the JDL editor of the job
2. Write

```
other.GlueCEInfoHostname != "hostname"
```

into the "Ranks & requirements" window

- Automatic job resubmission:
 1. Open the JDL editor of the job
 2. Set **Retry count** to a higher value