



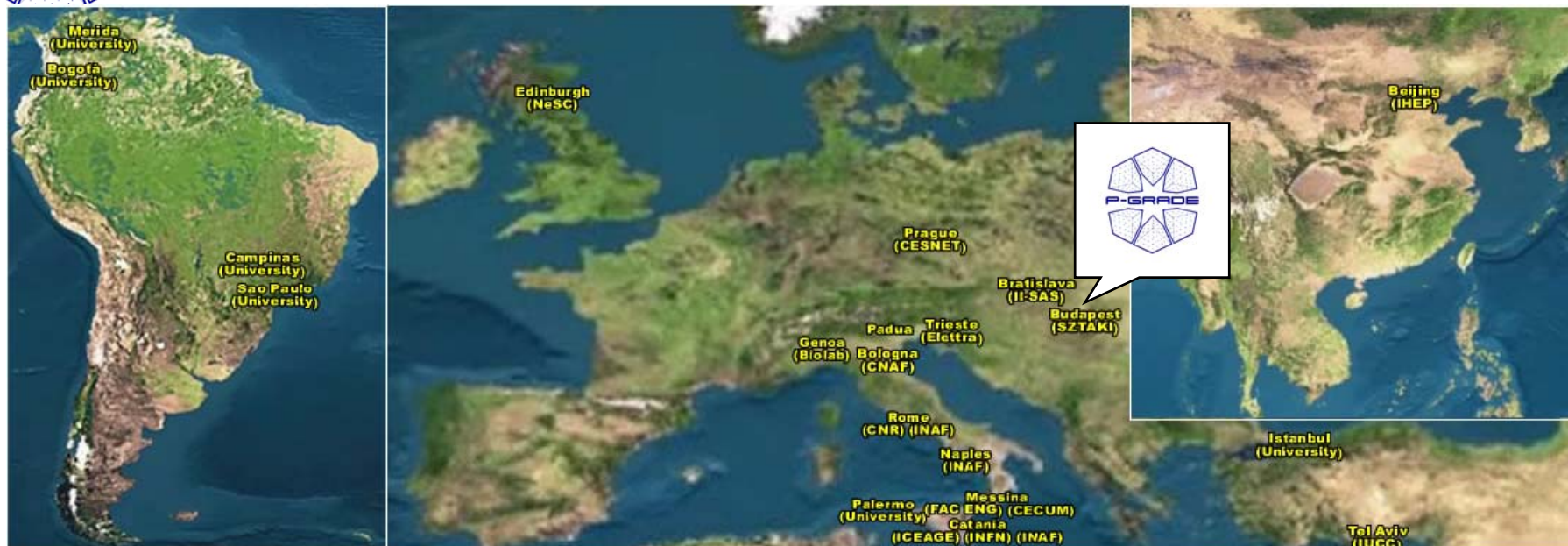
# ***P-GRADE Portal hands-on***

Manchester, 13. 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



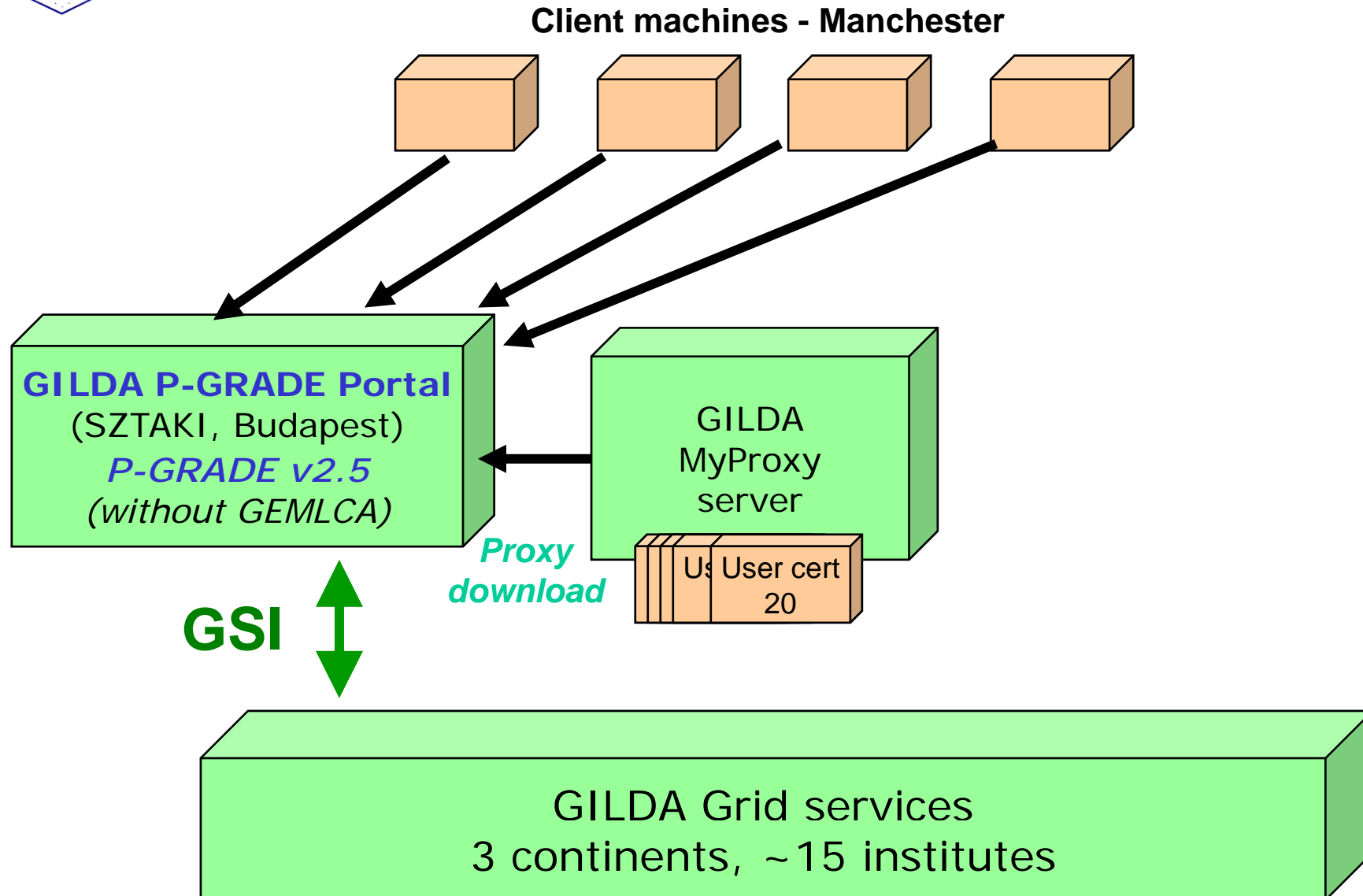
## *Situation today*



- 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

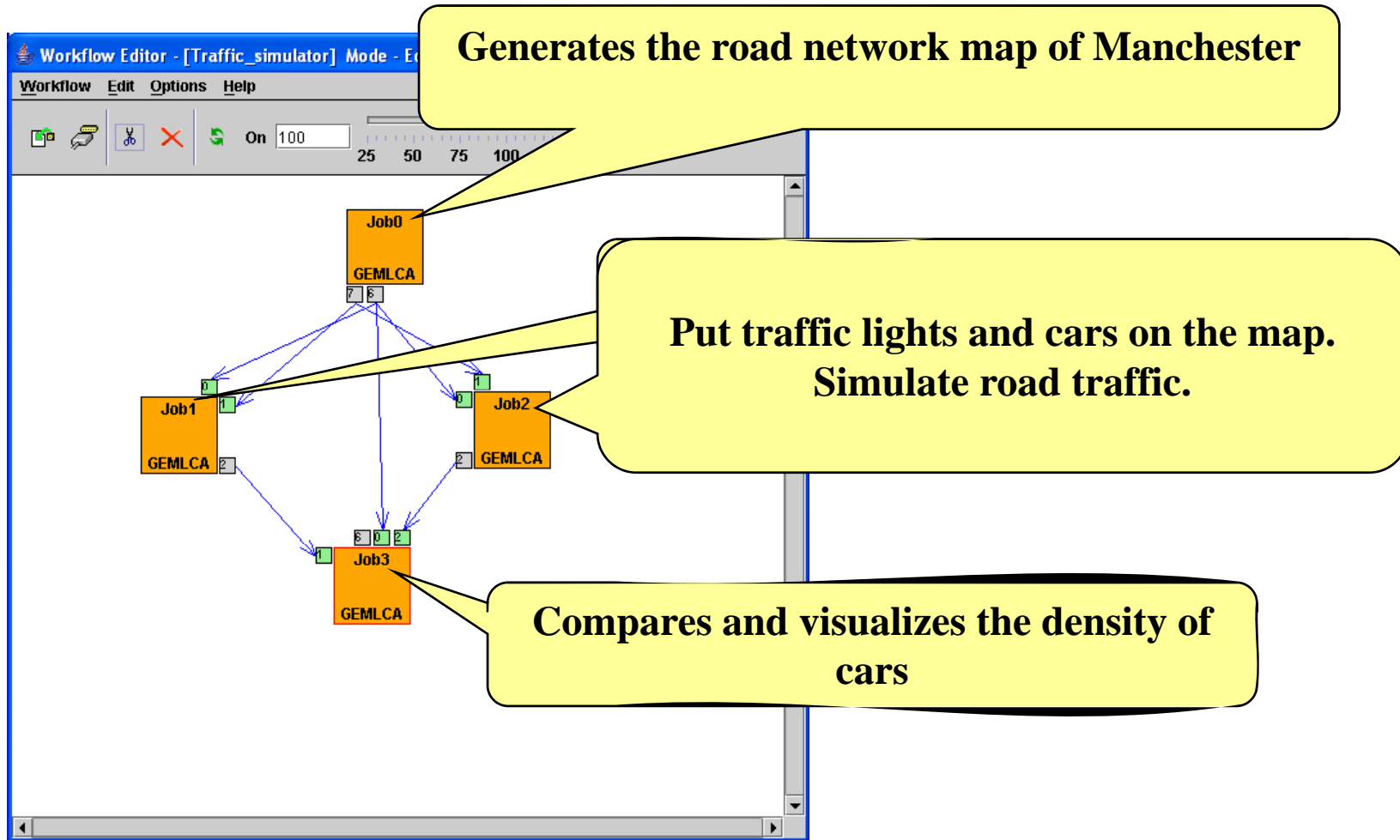




# Exercise 1

## Import and execute a pre-defined application

### Traffic simulation





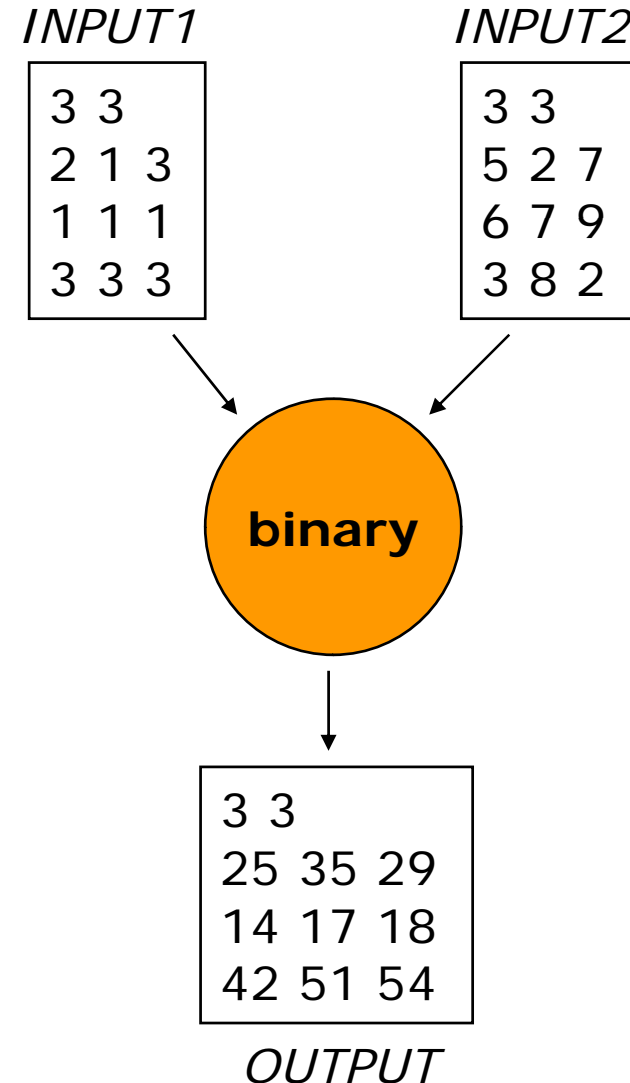
## Exercise 2

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`





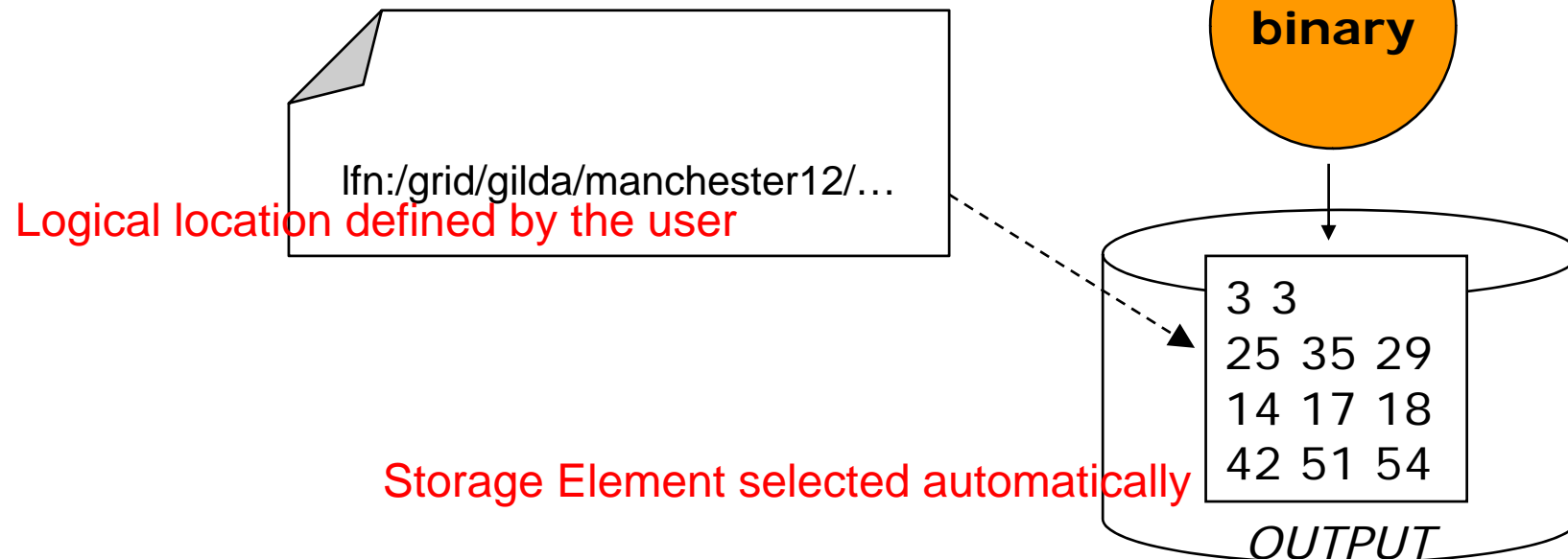
# Exercise 3

## Save the multiplication on a SE



- Modify output file type from “Local” to “Remote”
- Specify a logical file name as target location:

`lfn:/grid/gilda/. . .`



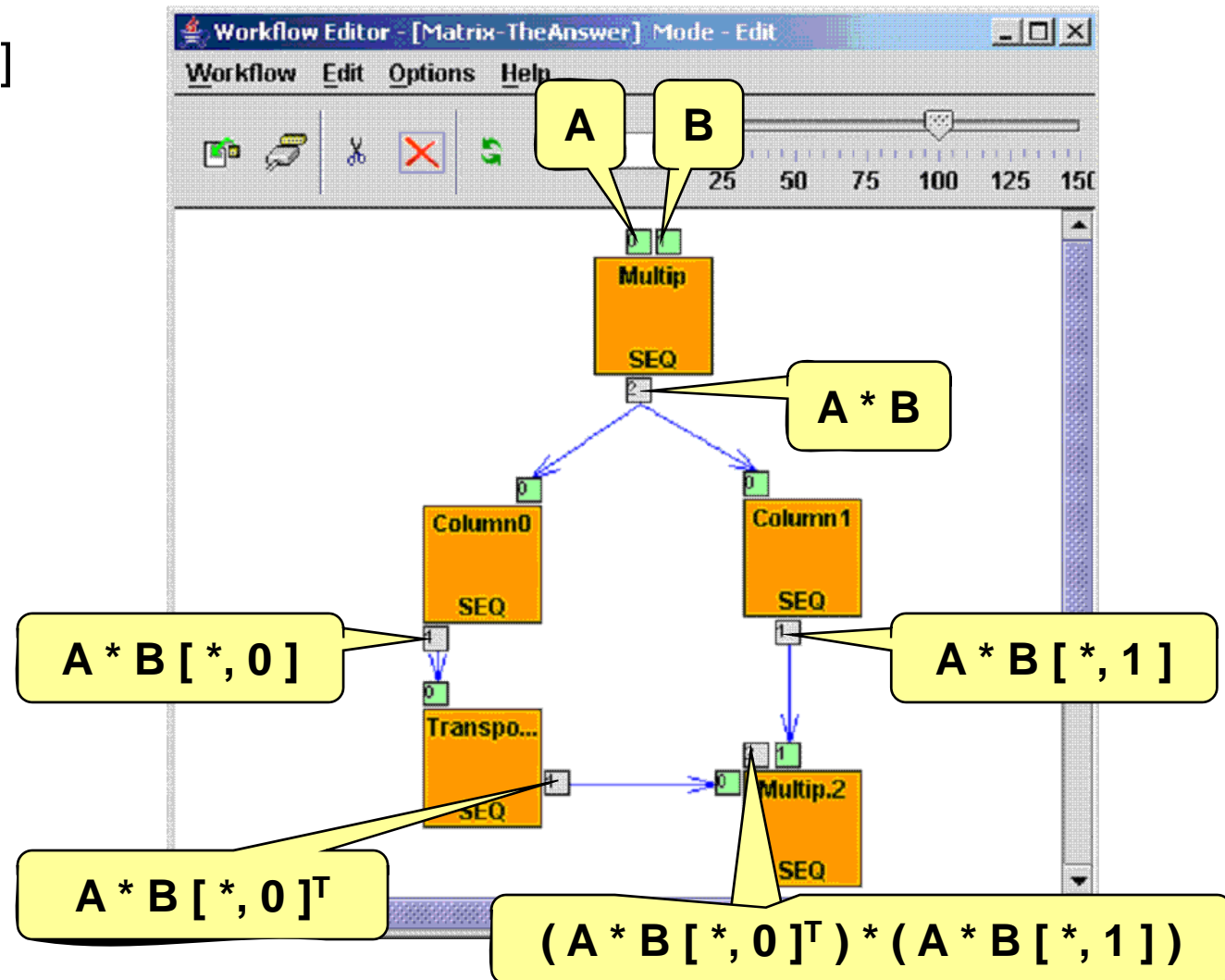


# Exercise 4



## 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