



# Practical information for the GEMMLCA / P-GRADE hands-on

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[www.portal.p-grade.hu](http://www.portal.p-grade.hu)  
[www.cpc.wmin.ac.uk/gemlca](http://www.cpc.wmin.ac.uk/gemlca)



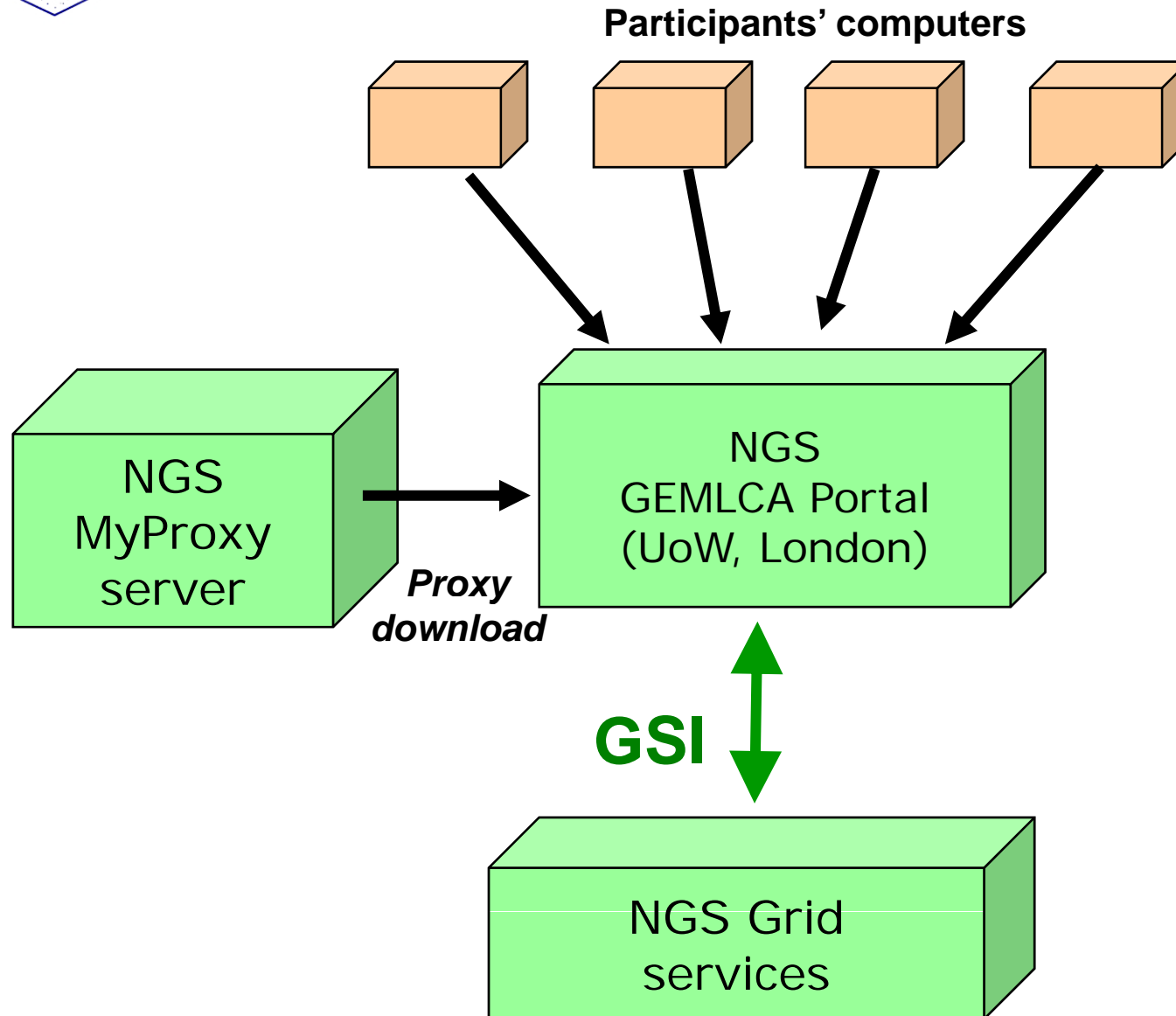
# *Introduction*



- Aim is to learn the usage of the NGS GEMMLCA P-GRADE Portal
- Understand the difference between job and service components in a workflow
- Go through the typical application development cycle
- Grid to be used: NGS (with and without the resource broker)



# Infrastructure for the hands-on





***Open the hands-on material***



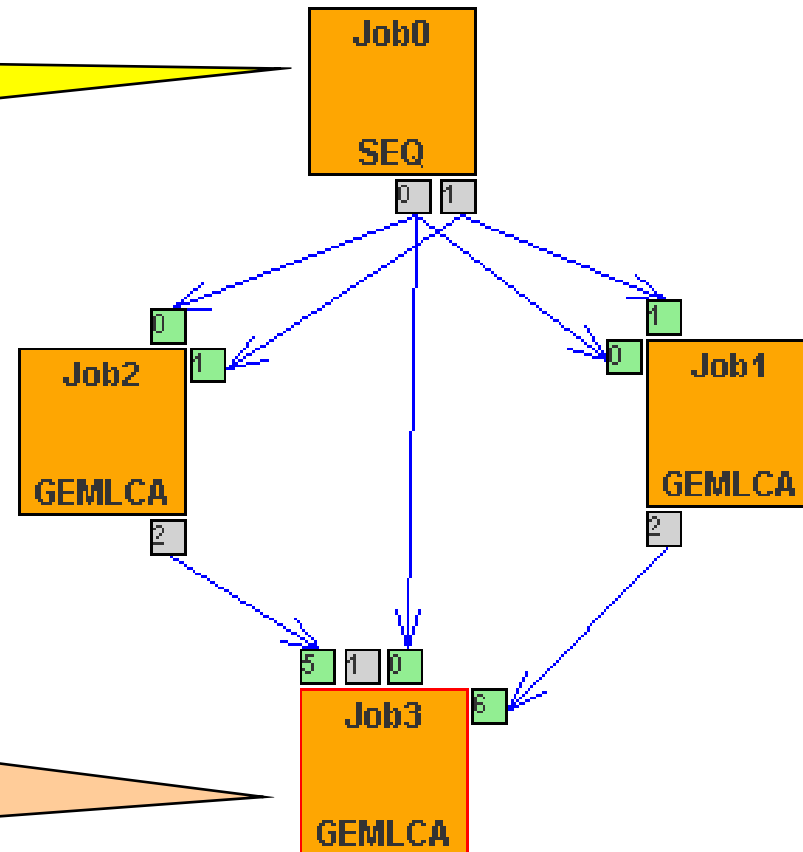
# Traffic simulation workflow



Generates inputs for the MadCity traffic simulator: a road network file and a "turn file".

Discrete-time microscopic traffic simulator.  
Two simulations using the same simulator binary but started with different parameters.

Compares the traffic congestions using the trace files received from the simulators.  
The graphical output is saved into a JPG file.

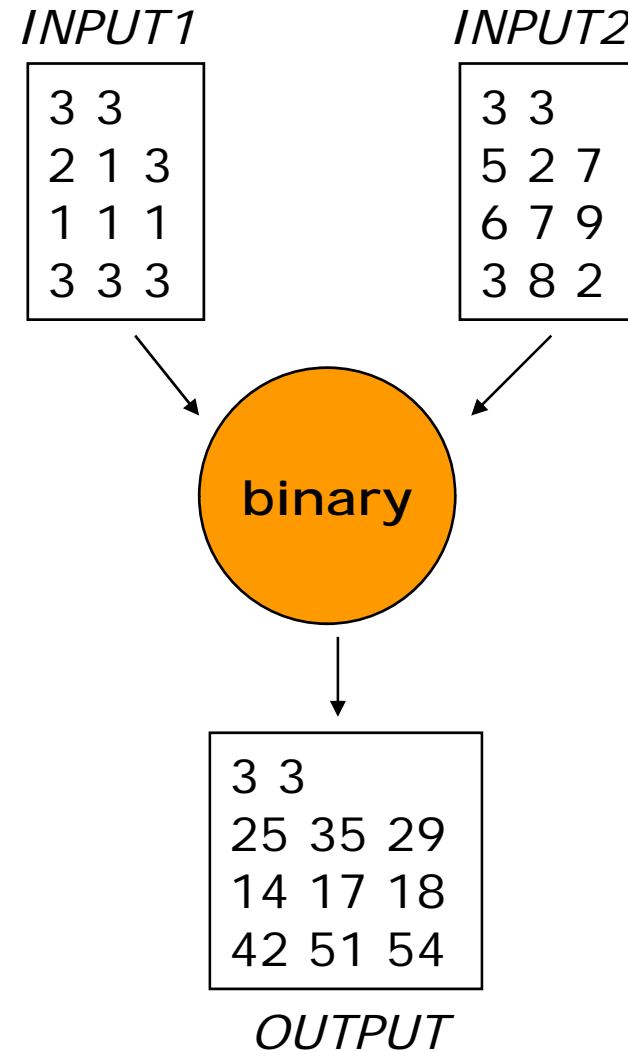




# Matrix multiplication job



- C code
- Reads matrixes from INPUT1 and INPUT2 files
- Writes result matrix to OUTPUT file
- Command line parameters: M V
- Detailed description, executable and sample inputs **HERE**



[http://portal.p-grade.hu/tutorials/induction/Matrix\\_operations\\_program\\_description.htm](http://portal.p-grade.hu/tutorials/induction/Matrix_operations_program_description.htm)



# How to learn more on P-GRADE portal and GEMMLCA?



- Take a look at
  - **P-GRADE portal: [www.portal.p-grade.hu](http://www.portal.p-grade.hu)**  
*(manuals, tutorials, service portals, installation procedure, etc.)*
  - **GEMMLCA: [www.cpc.wmin.ac.uk/gemmlca](http://www.cpc.wmin.ac.uk/gemmlca)**
- Visit or request a training event! (event list also on homepage)
  - Lectures, demos, hands-on tutorials, application development support
- **Get an account for one of the production installations:**
  - **NGS portal – University of Westminster**
  - VOCE portal - SZTAKI
  - SEEGRID portal – SZTAKI
  - GILDA portal – SZTAKI
- **If you are the administrator of a Grid/VO then contact SZTAKI/Westminster to get your own Portal installation**



**Learn once, use everywhere**  
**Develop once, execute anywhere**

***Thank you!***

**[www.portal.p-grade.hu](http://www.portal.p-grade.hu)**  
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