Practical information for the GEMLCA / P-GRADE hands-on

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www.portal.p-grade.hu
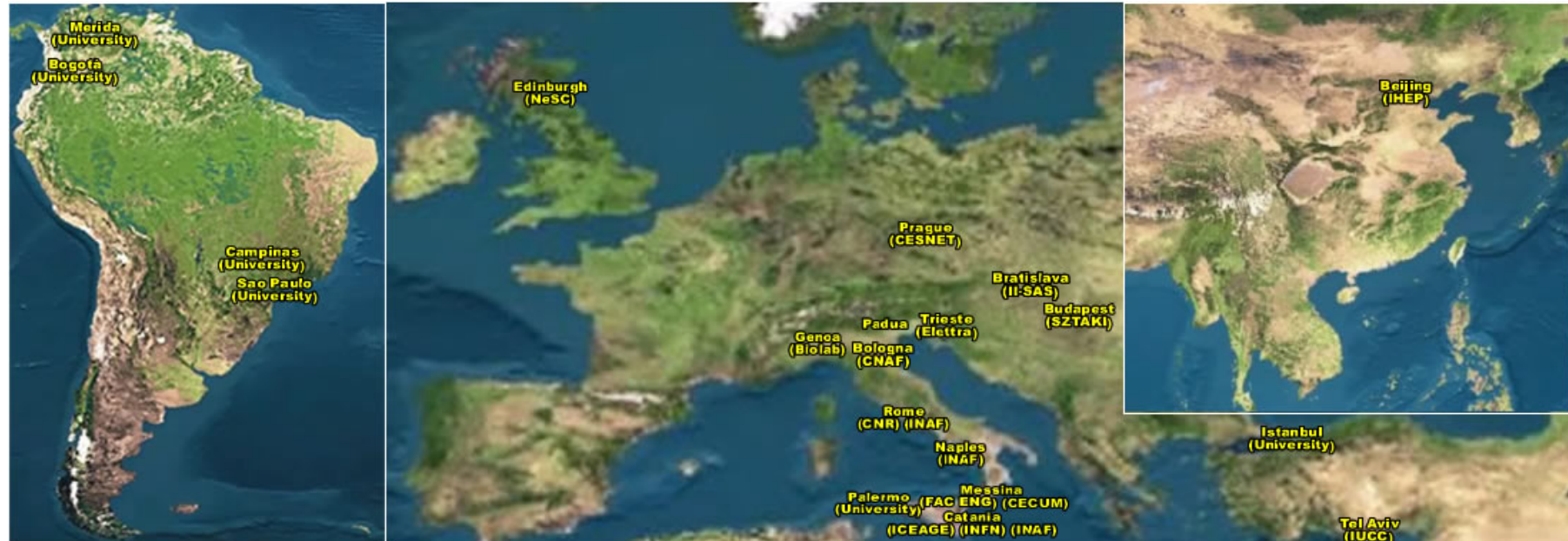**www.cpc.wmin.ac.uk/gemlca**

Introduction

- Aim is to learn the usage of the NGS GEMLCA P-GRADE Portal

- Understand the difference between job and service components in a workflow

- Go through the typical application development cycle

- Grids to be used: NGS and EGEE GILDA

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
- **Has its own CA, issues renewable certificates with 2 weeks lifetime**
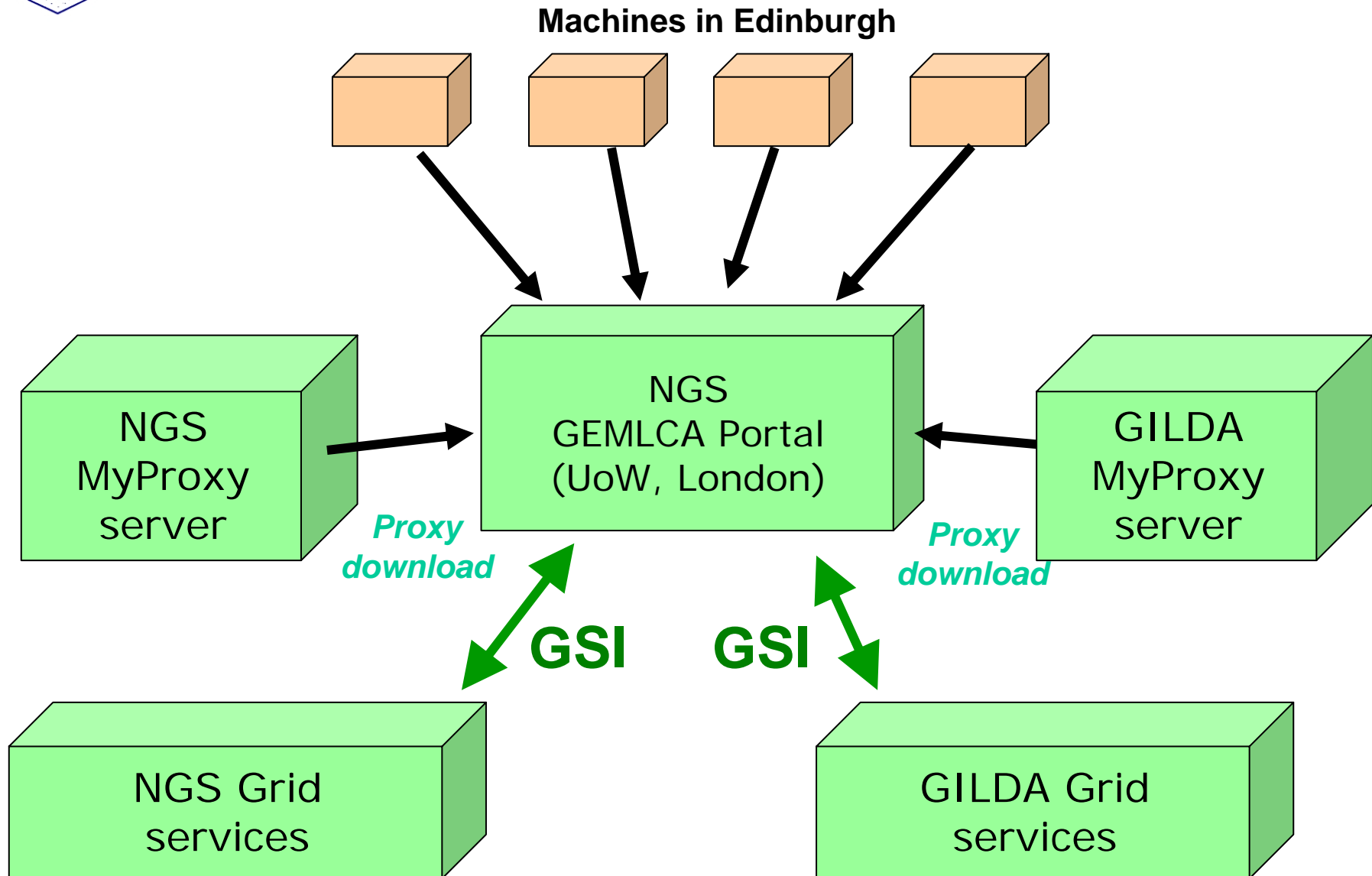- **Primary role is to provide infrastructure for grid training events**

Situation today

- Tutors obtained certificates from GILDA CA and NeSC CA

- Tutors registered these certificates at GILDA VO and NGS VO

- A proxy from the NeSC certificate was uploaded by you into NGS MyProxy yesterday

- Tutors uploaded proxies from GILDA certificates into GILDA MyProxy

- Tutorial starts at this point...
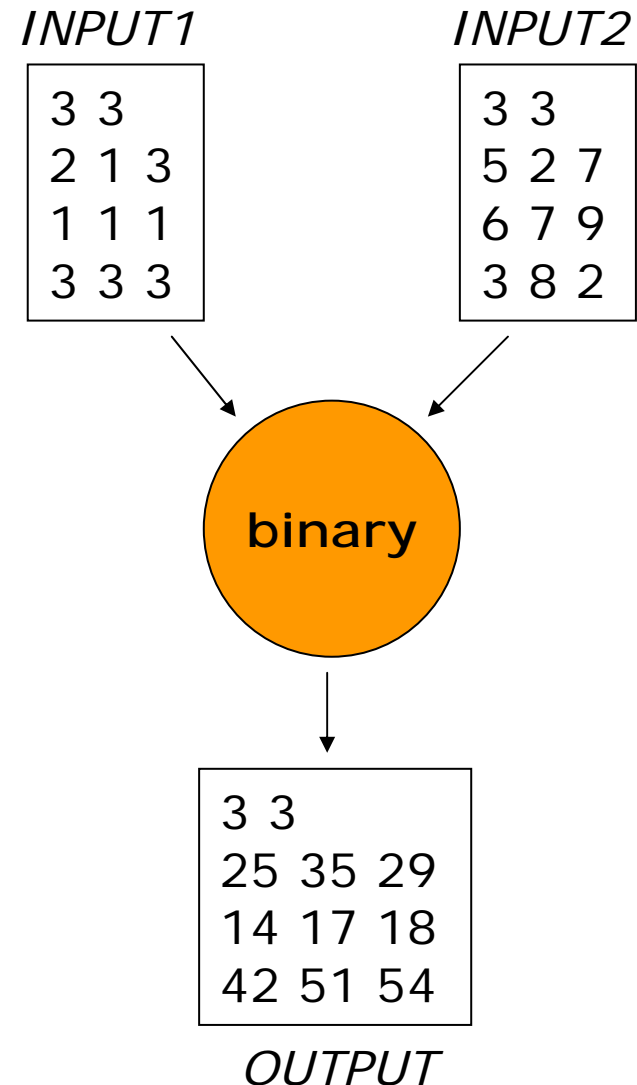
Infrastructure for the hands-on

Machines in Edinburgh

NGS
GEMLCA Portal
(UoW, London)

NGS
MyProxy
server

GILDA
MyProxy
server

Proxy download

Proxy download

GSI

GSI

NGS Grid
services

GILDA Grid
services

Open the hands-on material

Matrix multiplication job

- C code

- Binary compatible with Westfocus

- Reads matrixes from INPUT1 and INPUT2 files

- Writes result matrix to OUTPUT file

- Command line parameters: M V

- ./multiply M V

INPUT1

```
3 3
2 1 3
1 1 1
3 3 3
```

INPUT2

```
3 3
5 2 7
6 7 9
3 8 2
```

binary

OUTPUT

```
3 3
25 35 29
14 17 18
42 51 54
```

Future steps and roadmap