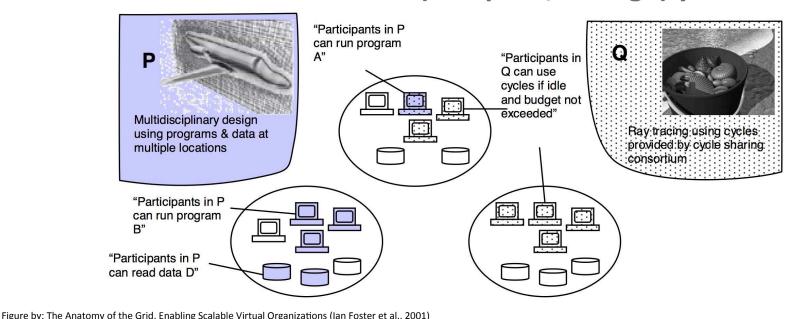# Virtual Organizations

Outline

☐ **Preparation**

$HOME/.globus/usercert.pem
$HOME/.globus/usekey.pem

☐ **What is a Virtual Organization (VO)**

☐ **Import Certificate to your browser**

☐ **Request a VO membership**

What is VO

- **Groups depending on scientific field and research interests**
  - lsgrid VO, vlemed VO, astron VO. For this course: ***tutor VO***

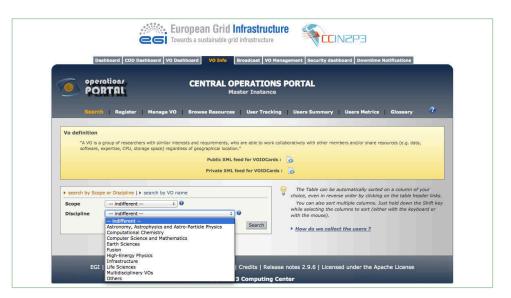- **Determines which resources (compute/storage) you can access**

P
Multidisciplinary design using programs & data at multiple locations

"Participants in P can run program A"

"Participants in Q can use cycles if idle and budget not exceeded"

Q
Ray tracing using cycles provided by cycle sharing consortium

"Participants in P can run program B"

"Participants in P can read data D"

Figure by: The Anatomy of the Grid, Enabling Scalable Virtual Organizations (Ian Foster et al., 2001)

Which VO is for me?

- ❑ **Find your VO here:**
  - ▪ http://operations-portal.egi.eu/aboutportal/map -> VO info

Astronomy
Earth Sciences
High Energy Physics
Life Sciences

...

- ❑ **Ask your local NGI for support – VO per discipline**
  - ▪ https://www.egi.eu/community/ngis/

Get a VO membership

❑ **Install certificate to your browser**

❑ **Register to your VO:**

- ▪ eg. for NL-infrastructure: https://voms.grid.sara.nl:8443/vomses

- ▪ Fill in registration form. Accept AUP.

- ▪ Confirm application

Import Certificate to browser

```
mooc@ui:~
laptop $ 
```