Welcome

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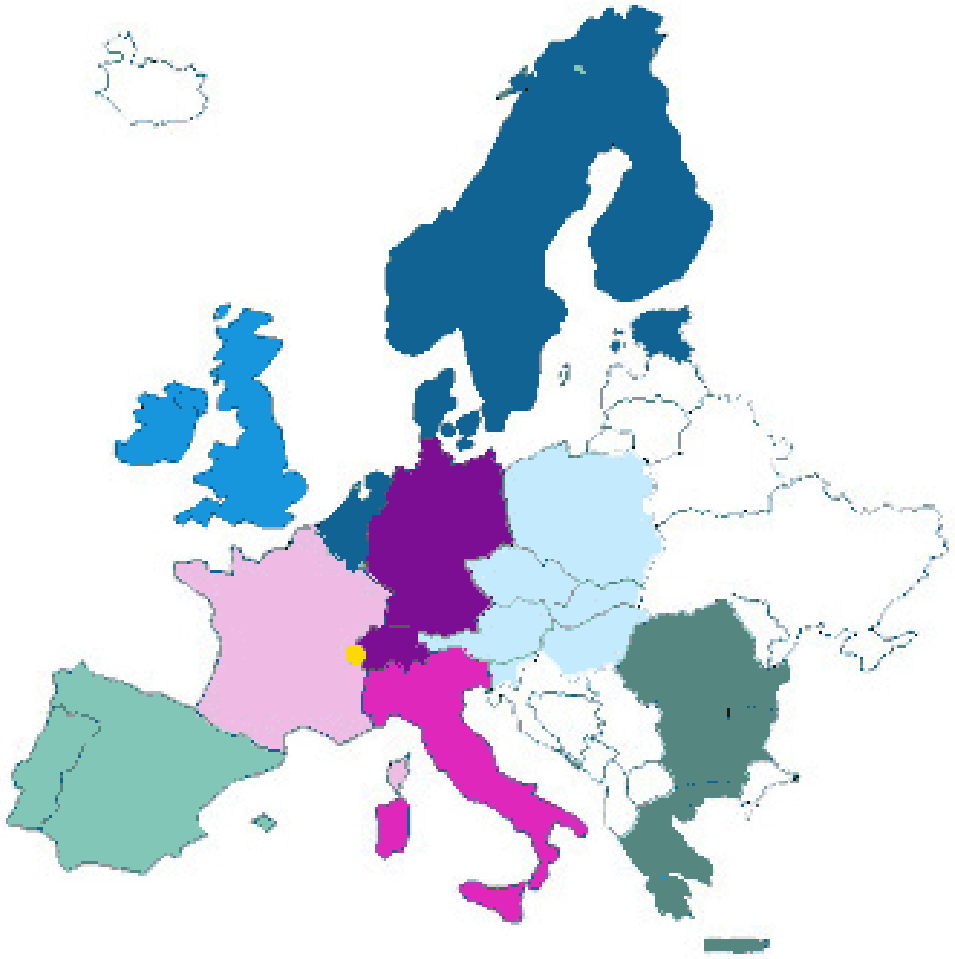
First gLite tutorial on GILDA, Catania, 13-15.06.2005

Outline

- **Short introduction**
  - EGEE
  - LCG
  - gLite
- **Agenda**
- **Useful information**
- **Tutorial layout**
- **Services layout**

The EGEE Project (2004-'06) (http://www.eu-egee.org)

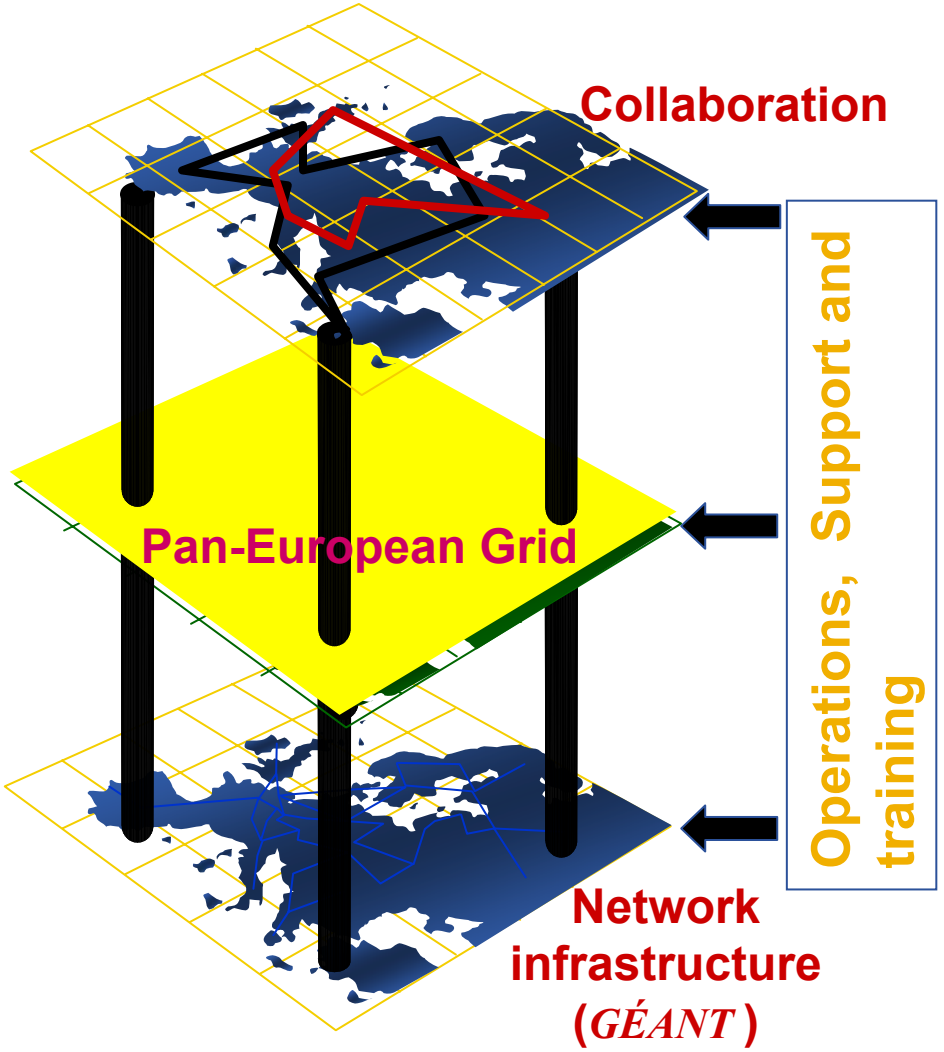


- CERN
- Central Europe (Austria, Czech Republic, Hungary, Poland, Slovakia, Slovenia)
- France
- Germany and Switzerland
- Ireland and UK
- Italy
- Northern Europe (Belgium, Denmark, Estonia, Finland, The Netherlands, Norway, Sweden)
- South-East Europe (Bulgaria, Cyprus, Greece, Israel, Romania)
- South-West Europe (Portugal, Spain)

All work in EGEE will be organised on the basis of regionally based federations.

Build a large-scale production grid service to:

- **Underpin European science and technology**
- **Link with and build on national, regional and international initiatives**
- **Foster international cooperation both in the creation and the use of the e-infrastructure**



Contractual Details

- I^3 Project
- The project start date is April 1st 2004
- The project duration is 24 months
- The total project budget is 46,109,200 Euros
- The EU financial contribution for the project is a total of 31,867,000 Euro
- There are 70 partners
- There are 27 participating countries
- Arranged in 12 federations
- Estimated 600 FTE's to be deployed during the project
- Target a combined 20,000 CPUs

The EGEE Activities

32 Million Euros of EU funding over 2 years starting 1st April 2004

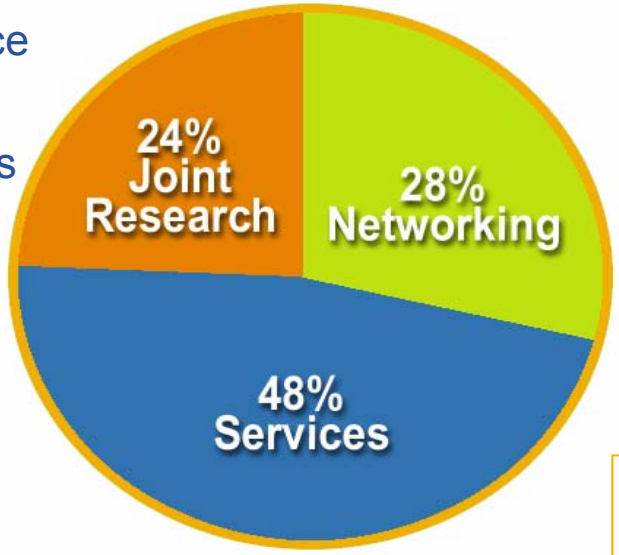
24% Joint Research

JRA1: Middleware Engineering and Integration

JRA2: Quality Assurance

JRA3: Security

JRA4: Network Services Development



28% Networking

NA1: Management

NA2: Dissemination and Outreach

NA3: User Training and Education

NA4: Application Identification and Support

NA5: Policy and International Cooperation

48% Services

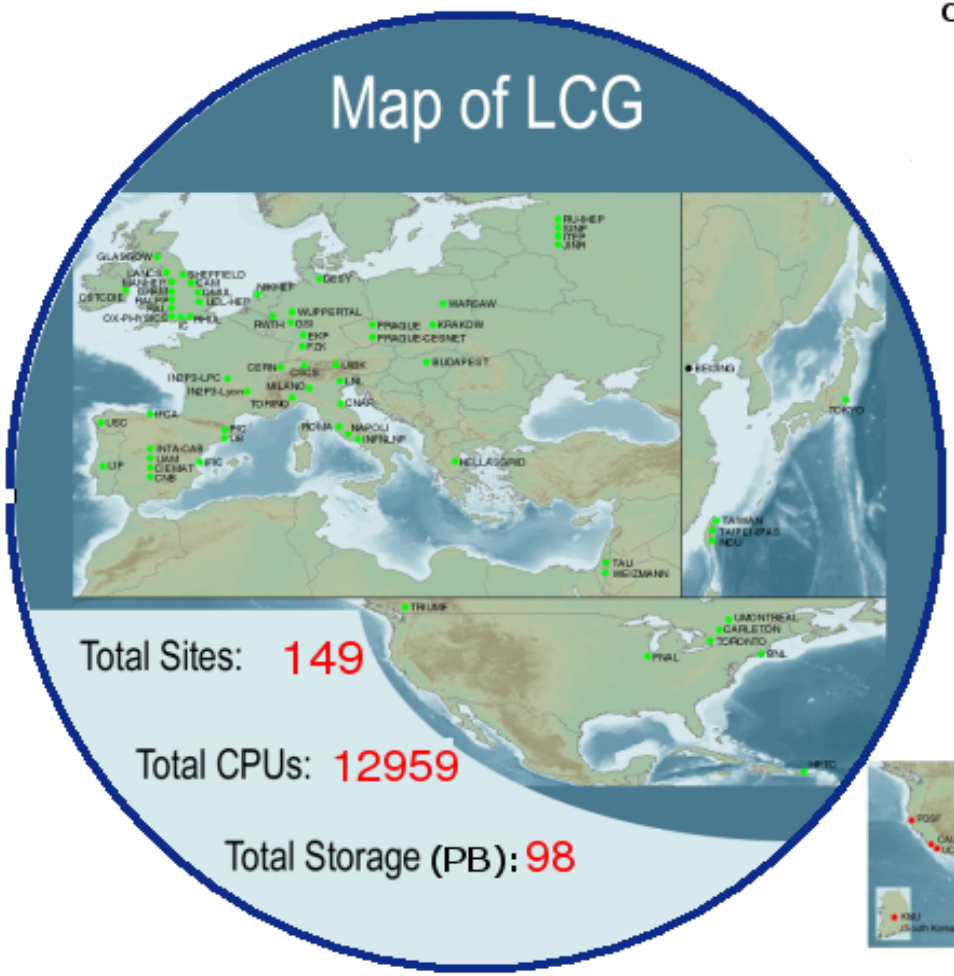
SA1: Grid Operations, Support and Management

SA2: Network Resource Provision

Emphasis in EGEE is on operating a *production Grid* and on supporting the end-users.

LCG: LHC Computing Grid (http://www.cern.ch/lcg)

LCG infrastructure (http://www.cern.ch/lcg)



Collaborating with LCG

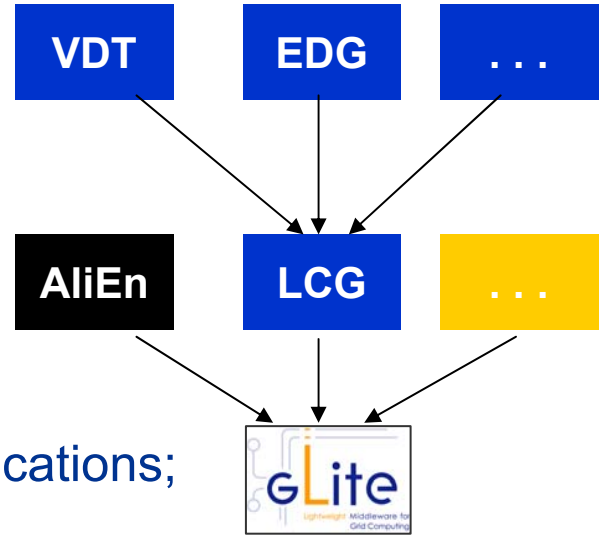
NorduGrid

Grid3

Click here to see the status now !

gLite (http://www.glite.org)

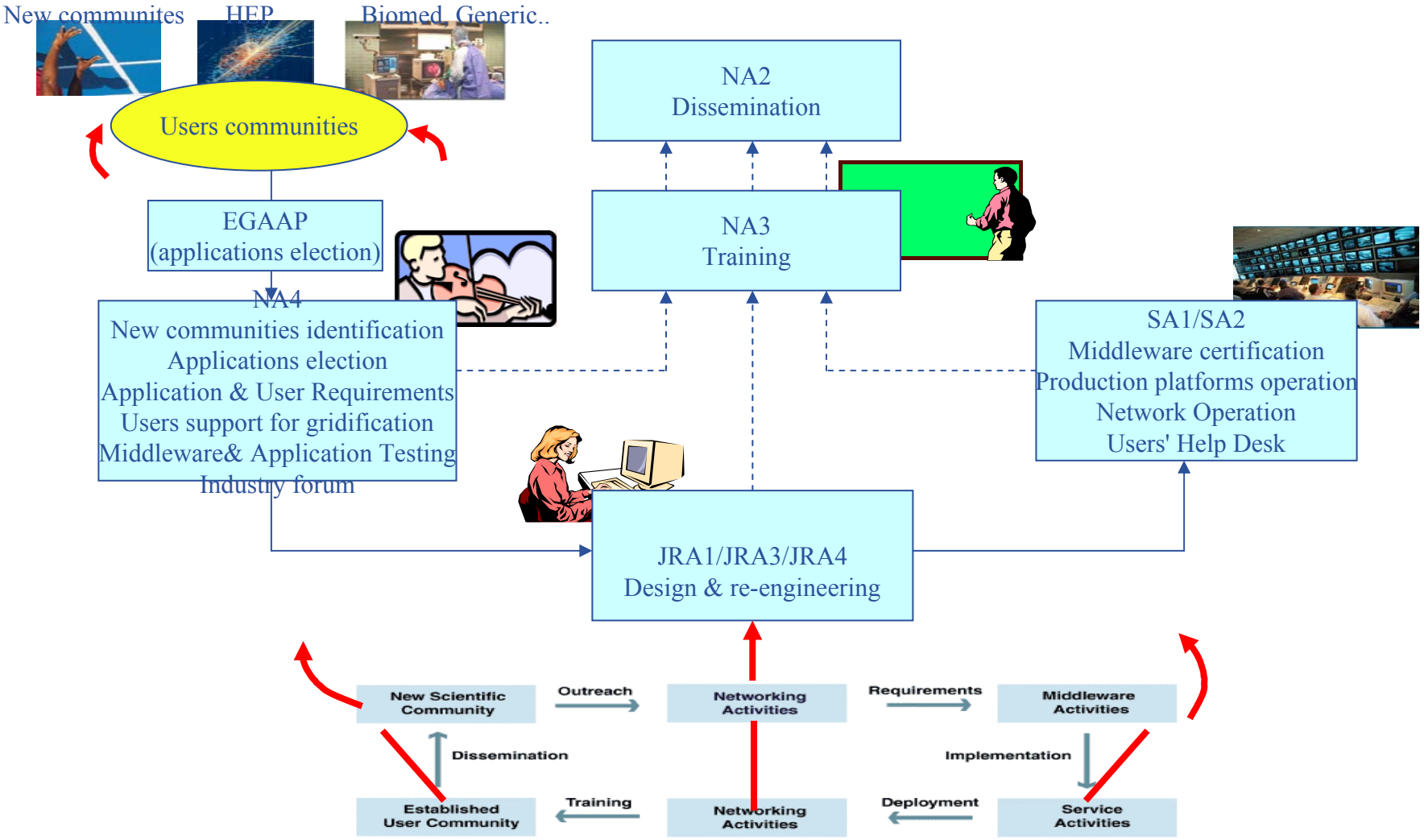
gLite (http://www.glite.org)



- **Exploit experience and components from existing projects**
  - AliEn, VDT, EDG, LCG, and others
- **Design team works out architecture and design**
  - Feedback and guidance from EGEE PTF & applications; Operations, LCG GAG & ARDA
- **Components are initially deployed on a prototype infrastructure**
  - Small scale (CERN & Univ. Wisconsin)
  - Get user feedback on service semantics and interfaces
- **After internal integration and testing, components are delivered to grid operations group and deployed on the pre-production service**

Draft Design - https://edms.cern.ch/document/487871/
PTF – Project Technical Forum (http://egee-ptf.web.cern.ch/egee-ptf/default.htm)
GAG – Grid Application Group (http://project-lcg-gag.web.cern.ch/project-lcg-gag/)
ARDA - A Realisation of Distributed Analysis for LHC (http://lcg.web.cern.ch/LCG/peb/arda/Default.htm)

The EGEE "Virtuous Cycle"



Activities mainly involved in the virtuous circle

Agenda

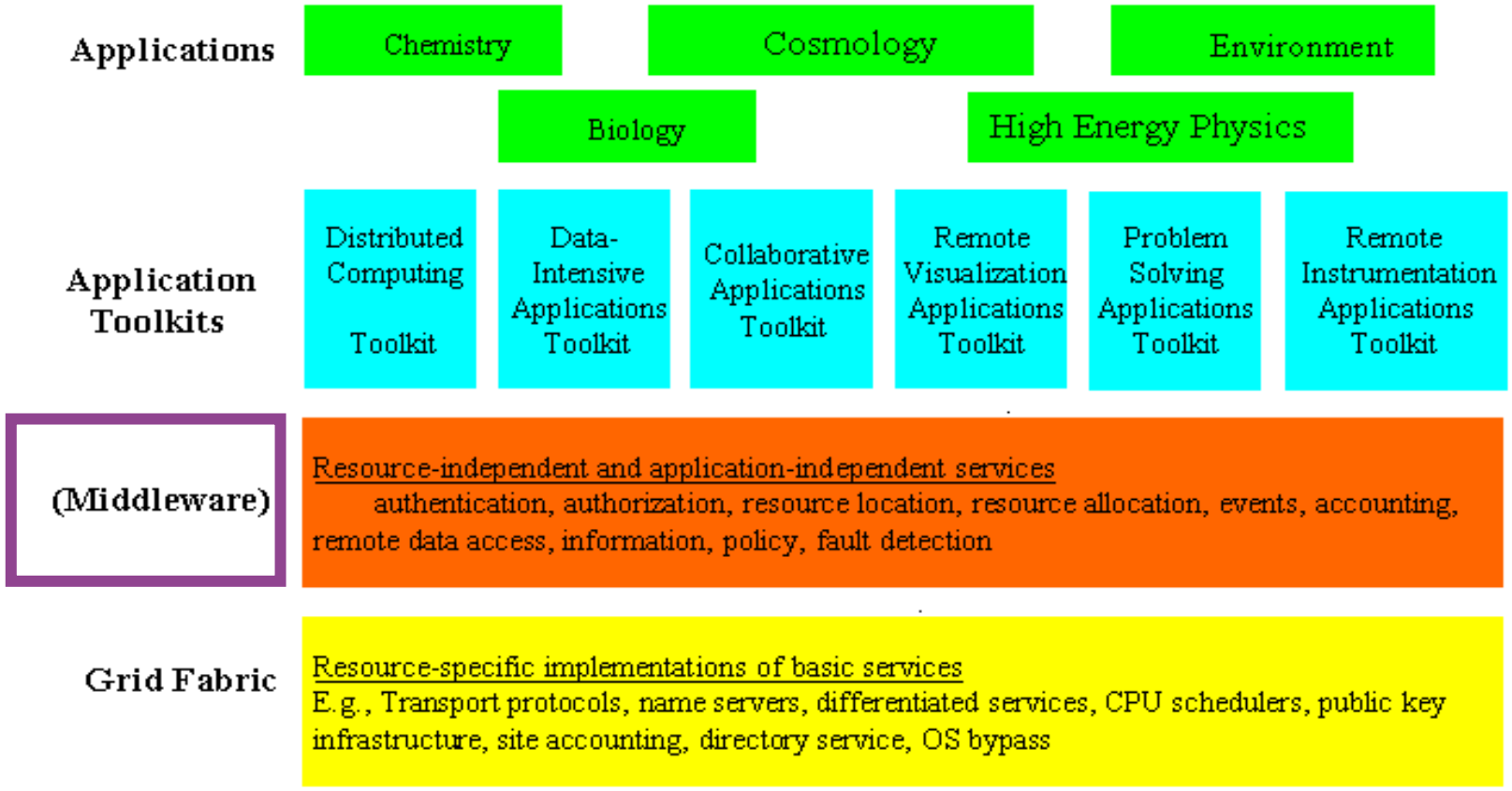
Click here to see the Agenda

Useful information

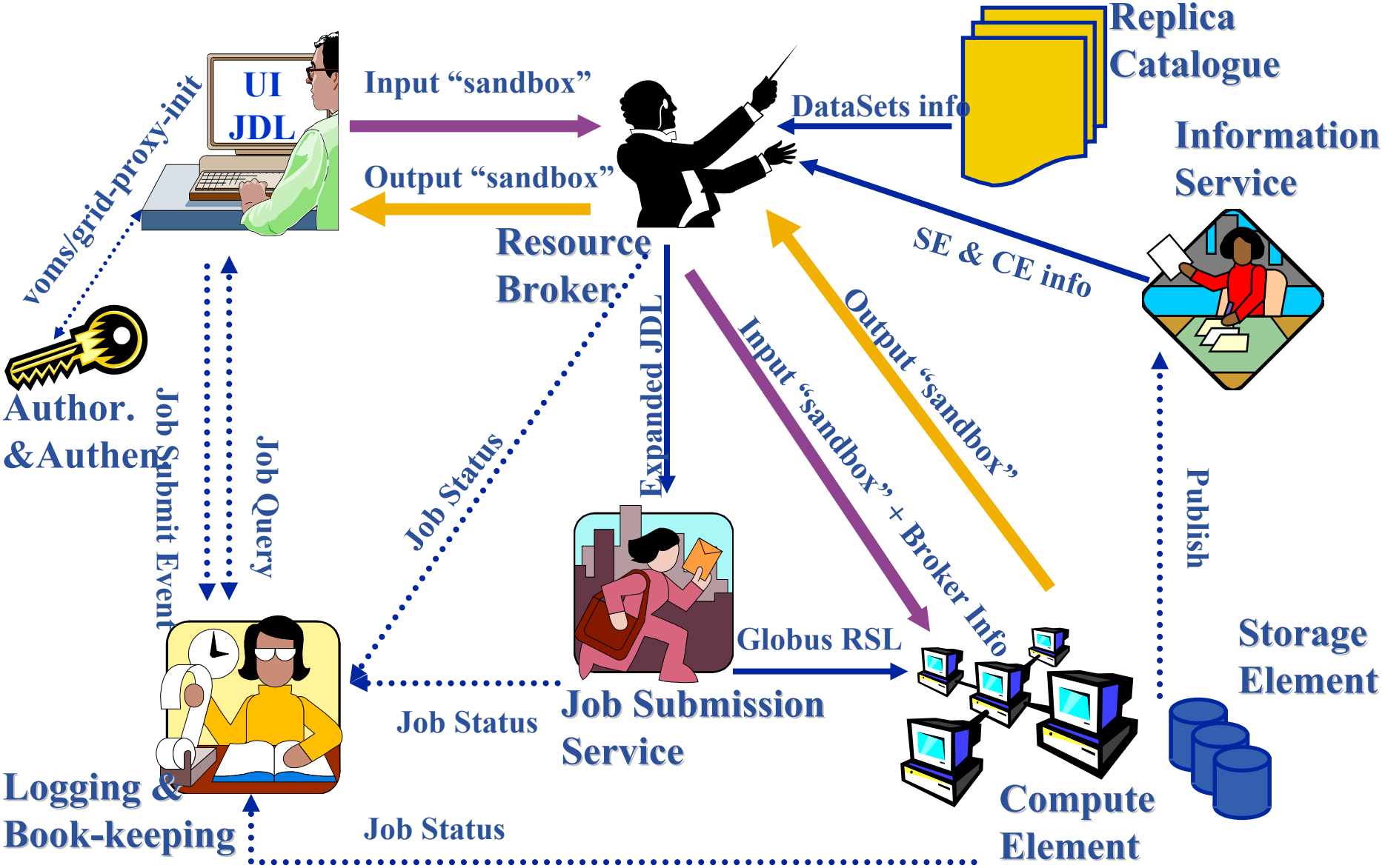
- **GILDA home page: https://gilda.ct.infn.it (see next presentation)**
- **Middlewares used: LCG 2.4.0 and gLite 1.0/1.1**
- **GILDA User Interfaces:**
  - UI PnP "combined": https://gilda.ct.infn.it/UIPnPcomb
  - Central User Interface for LCG: grid-tutor.ct.infn.it
  - Central User Interface for gLite: glite-tutor.ct.infn.it
  - GENIUS portal for LCG: https://grid-tutor.ct.infn.it
  - GENIUS portal for gLite: https://glite-tutor.ct.infn.it
- **Account names on the User Interfaces PnP:**
  - tutor01-tutor35
- **Account passwords on the User Interfaces PnP:**
  - gridct01-gridct35
- **Certificate passphrase:**
  - CATANIA

The tutorial in two slides (1/2)

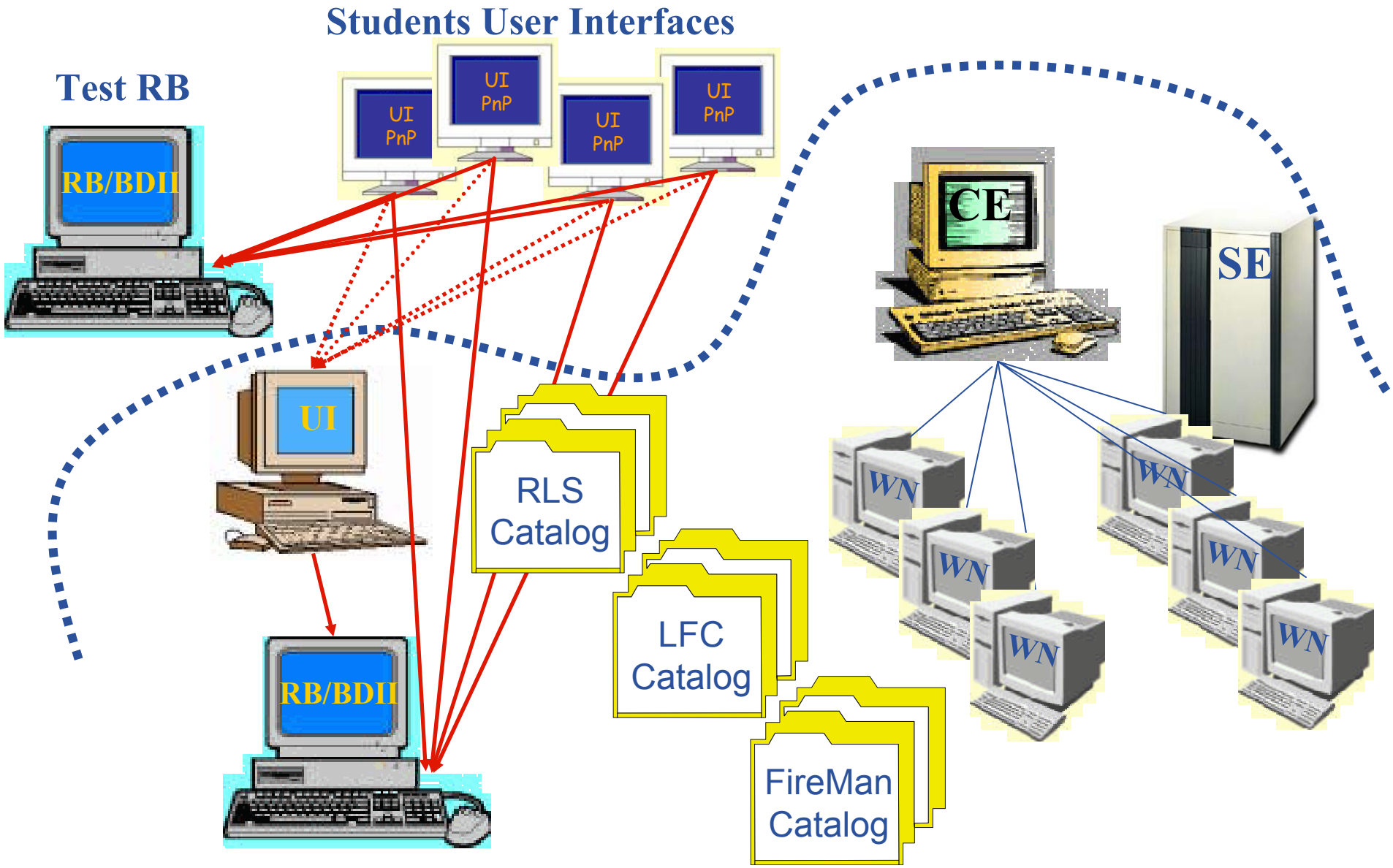
The Grid from a Services View



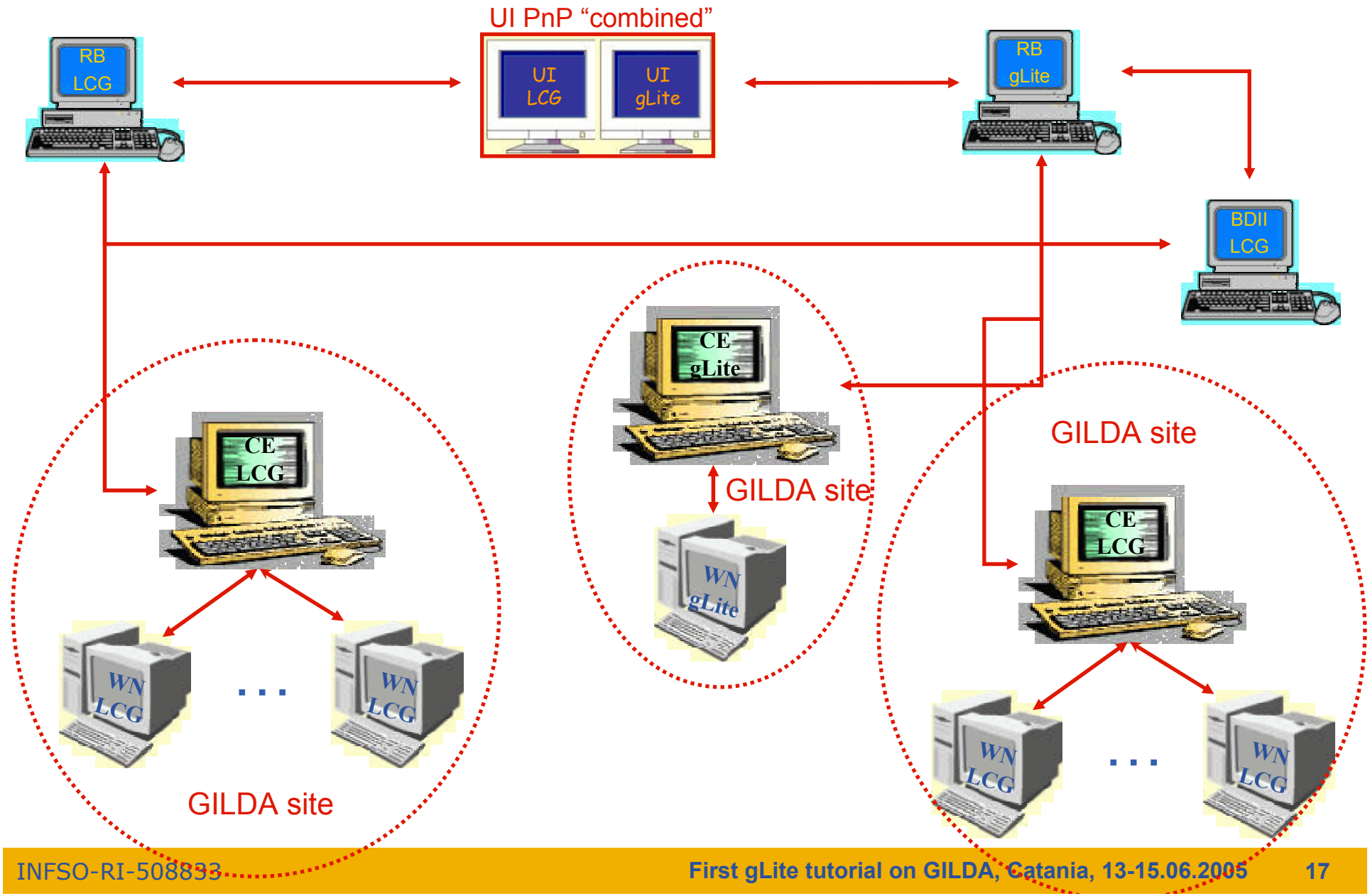
The tutorial in two slides (2/2)



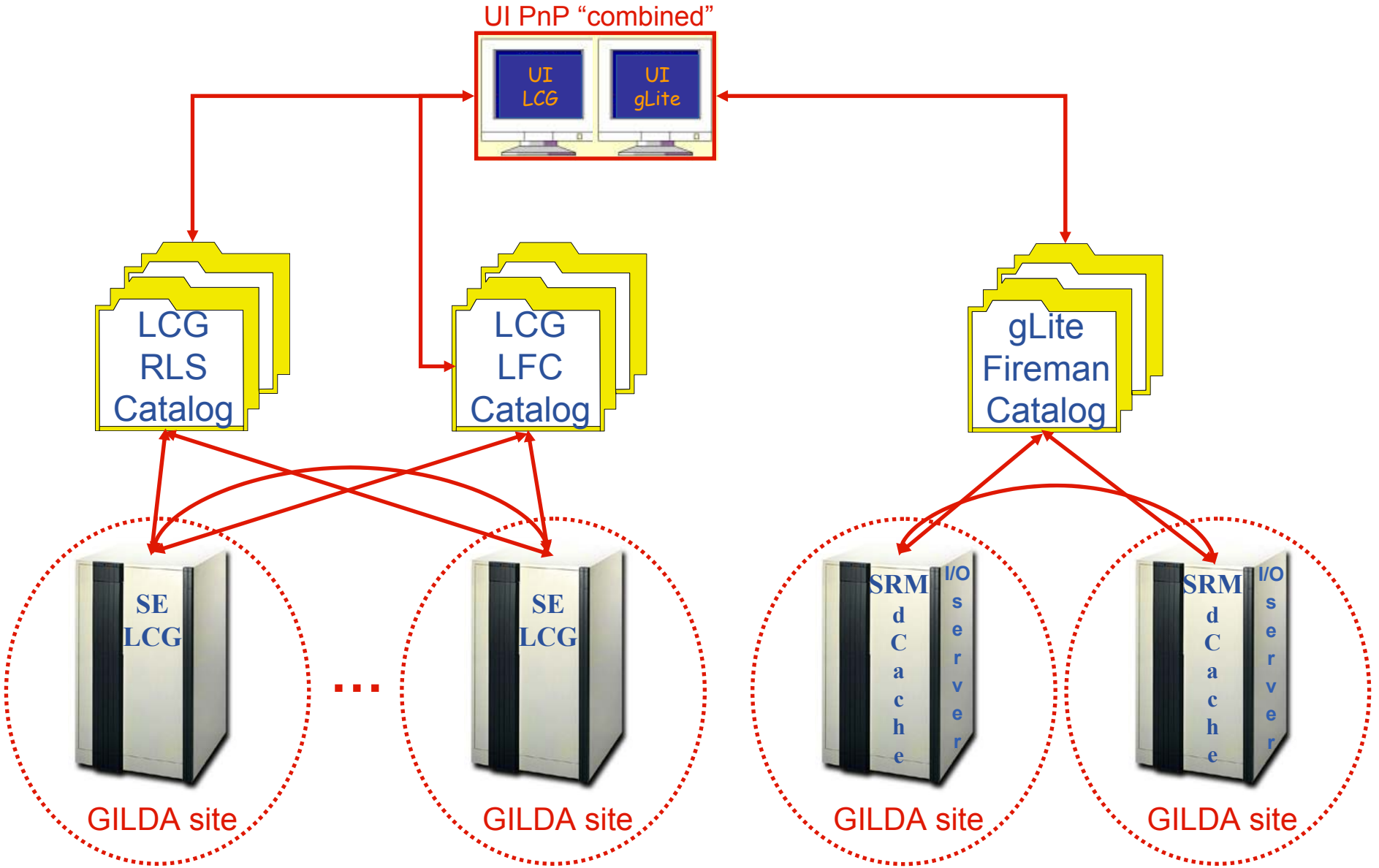
Tutorial layout and acronyms



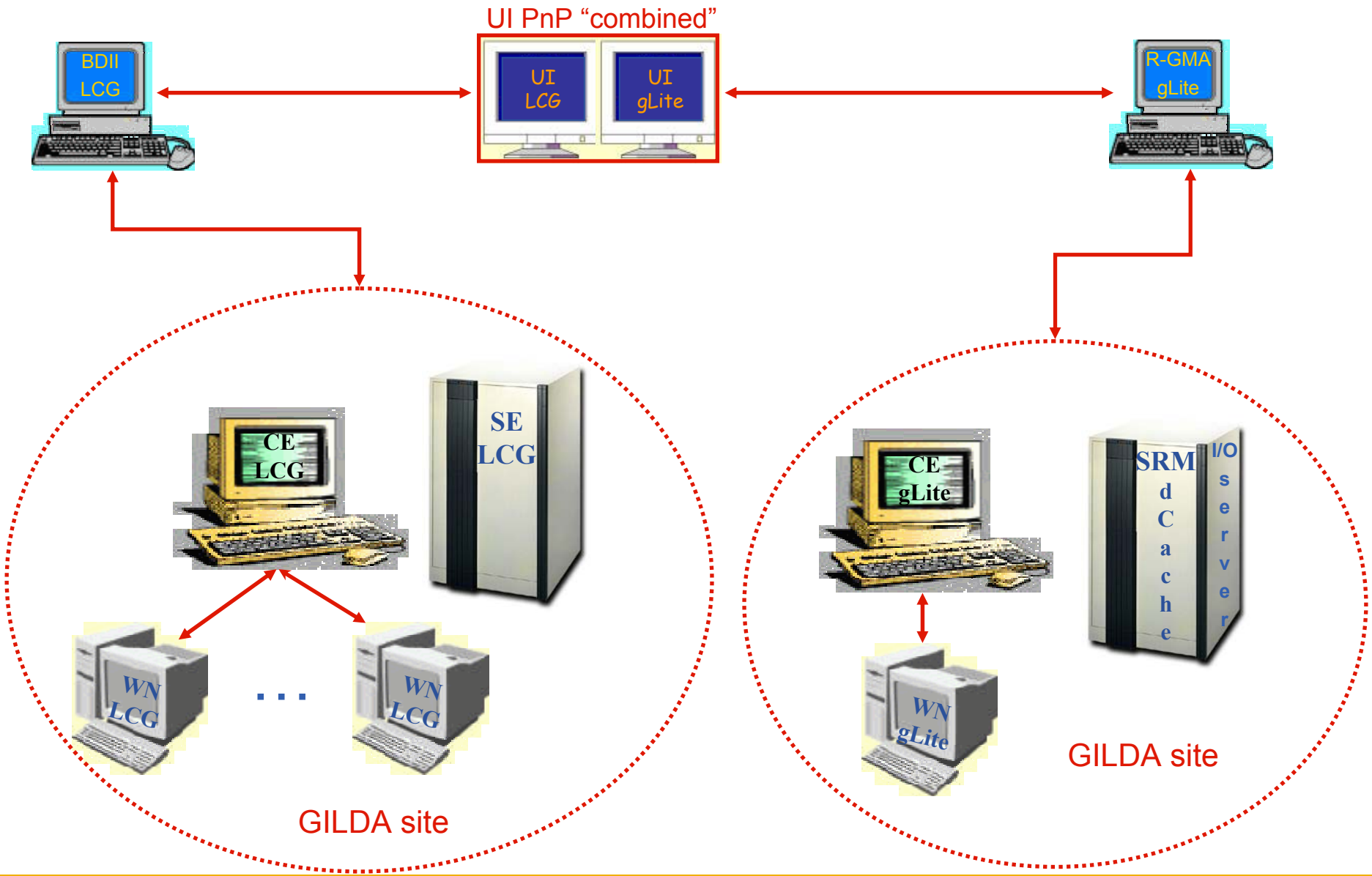
WMS layout in GILDA



DMS layout in GILDA



IS layout in GILDA



Questions ?

Any questions ?

Are you ready to start ?