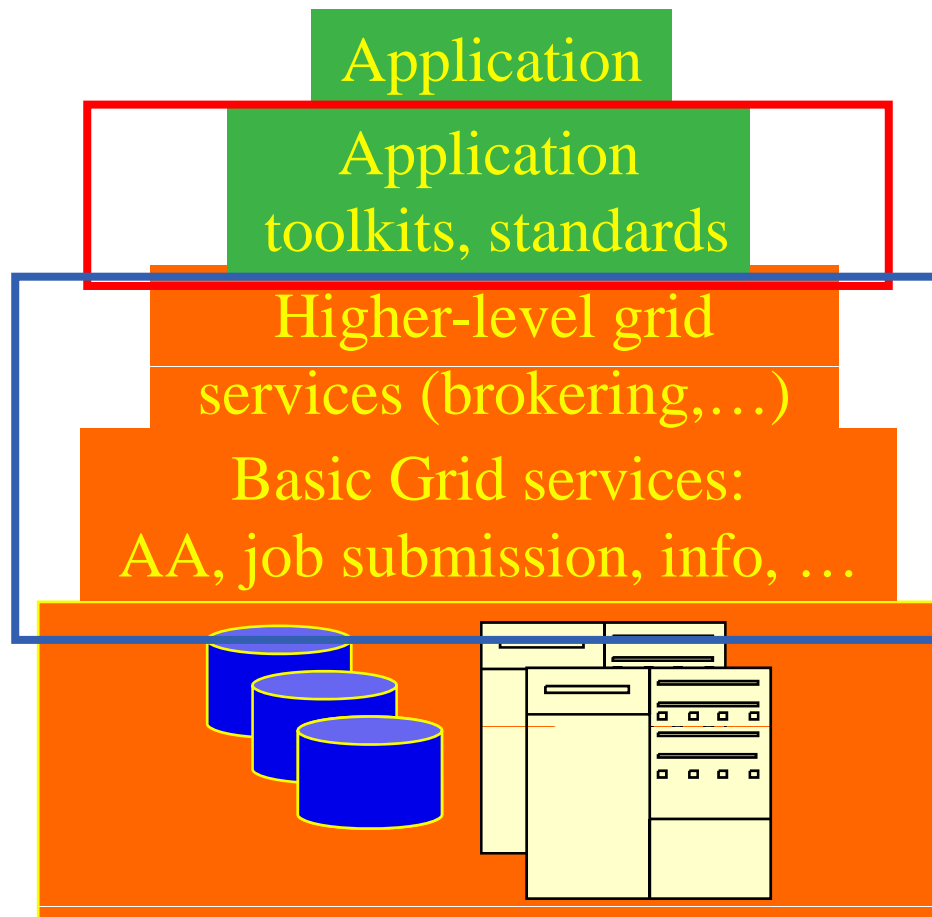


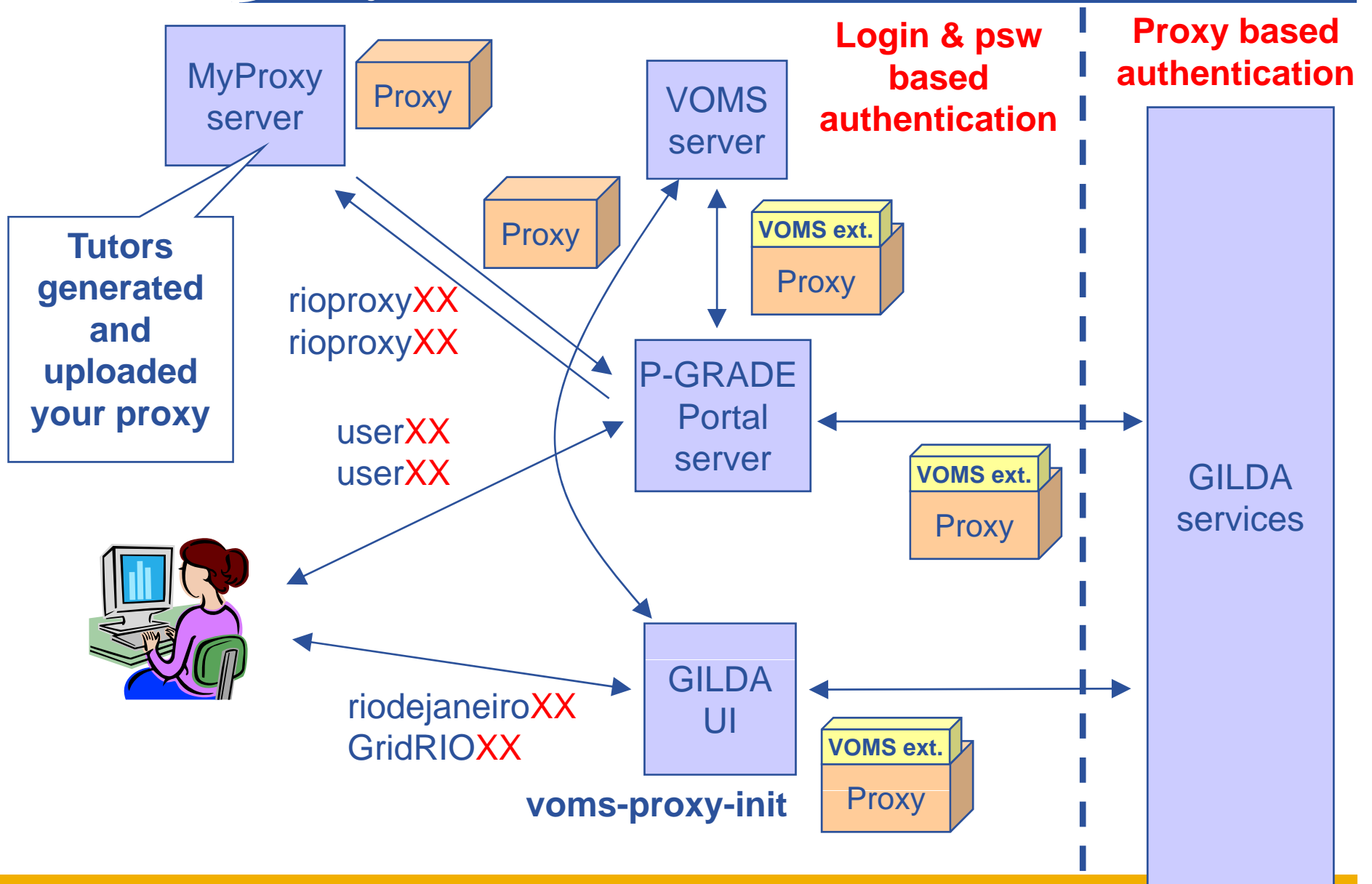
Summary of Day 2

- **Grid file concept: Write-once, read-many**
- **Storage element: physical location of files**
- **File catalog: logical hierarchy of grid files**
- **Logical file name (→ GUID → SURL → TURL)**
- **File replicas:**
 - Keep computation close to data
- **File manager tools:**
 - **lfc-*** command line clients → catalog manipulation
 - **lcg-*** command line clients → storage + catalog manipulation
 - **GFAL API** → access remote content without creating local file

- **4 examples**
 - Writing the results of the job from the CO to the SE using lcg-* utils
 - Large files
 - Cause a job to run on a CE close to the SE that holds a named file
 - Balancing between data transfer and execution time
 - Use a script to cause multiple jobs to run and monitor
 - Parametric study at the scripting level
 - P-GRADE Portal parametric study tomorrow
 - LFC commands to control access to files
 - Collaborative work by the sharing data



- To hide the complexity of the grid middleware
- To provide application specific user interface
- To provide easier access mechanisms (web)
- To keep the user focused onto the “real problem”, solve everything else – abstract interface



Alternative interfaces, but the same grid infrastructure:

- Same set of Computing Elements
- Same set of Storage Elements
- The same Workload Management System (broker)
- The same Logical File Catalog
 - LFNs are the same

Single sign-on:

- Authenticate with name&psw once: when you generate your proxy
- Use the proxy to authenticate with the grid services

Proxy based authentication



- **Graphical support for the development and execution of**
 - Data driven workflows
 - Parameter studies (parametric studies)
 - Single Instruction Multiple Data parallelization - Tomorrow
- **Workflow: Put together components into larger applications**
- **Parameter study: Execute components/workflows with large number of parameters**
- **Interoperable with gLite, Globus 2, Globus 3, Globus 4 grids**
- **Make your code accessible to a wider community: GEMMLCA specific P-GRADE Portal**

- Visit www.portal.p-grade.hu
(*manuals, slide shows, installation procedure, etc.*)
 - **Get an account on one of its production installations:**
 - portal.p-grade.hu/index.php?m=5&s=0
 - **GILDA P-GRADE Portal**
 - Not only for training events!
 - Get your certificate from GILDA CA
 - Join the GILDA VO
 - Get an account on GILDA P-GRADE Portal
 - **If your grid / VO does not have P-GRADE Portal yet, contact SZTAKI and ask for an installation!**

Morning:

- Parameter study development with P-GRADE
- AMGA Metadata catalog: what happens if you have to work with hundreds of files?

Afternoon

- Additional tools for EGEE users:
 - GANGA, GridWay, Programming APIs
- Support for EGEE users
- Grid projects and efforts in South America