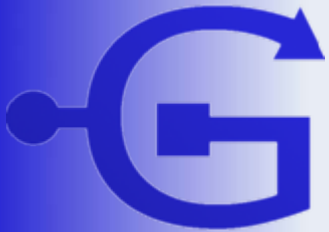


The GRAIL tool in real situations



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Used authoring tools

- Reload LD editor:
 - All the specification covered
 - Hard to use
 - Requires deep knowledge of specification
- Collage
 - Pattern based
 - Designed for collaborative learning flows
 - Nothing to do out of pattern

The design process

- Is the theatre metaphore valid?
- How difficult is to capture a course?



– Most of issues in a real course can be mapped to IMS-LD



– But it requires a deep specification knowledge






– The theatre metaphore does not cover a lot of scenarios



– Interaction with other tools is poorly defined

The deploy process

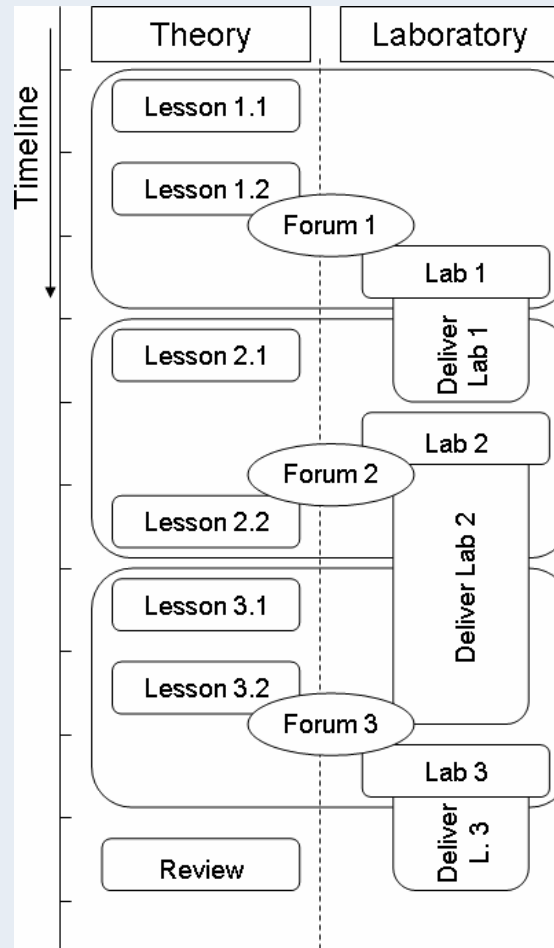
- How difficult is to deploy a course?
 - If it is a well-done design, the deployment has almost no work 
 - Better with LMS support
 -  – Deployment is not enough. Management is also required
 -  – Better with LMS support



First example: Computer architecture subject

- Regular course part of a degree
- Synchronism difficulties
 - Theory and practice run in parallel, but not synchronized.
 - The theatre metaphore does not apply
- Properties to finish activities
 - Harder to use, but allow to manage all from a monitor
- Conditional contents with css
 - The key feature to conditionally deliver contents

First example: Computer architecture subject





Working experience: Grid Computing

- Experience in collaborative pedagogical models
- Three Spanish universities involved
 - UVA, Carlos III and UOC
 - Four members per university
 - PhD students involved in the course
- Synchronous experience
 - Requires collaboration between partners
 - Collaborative tools, communication tools
 - High use of external tools

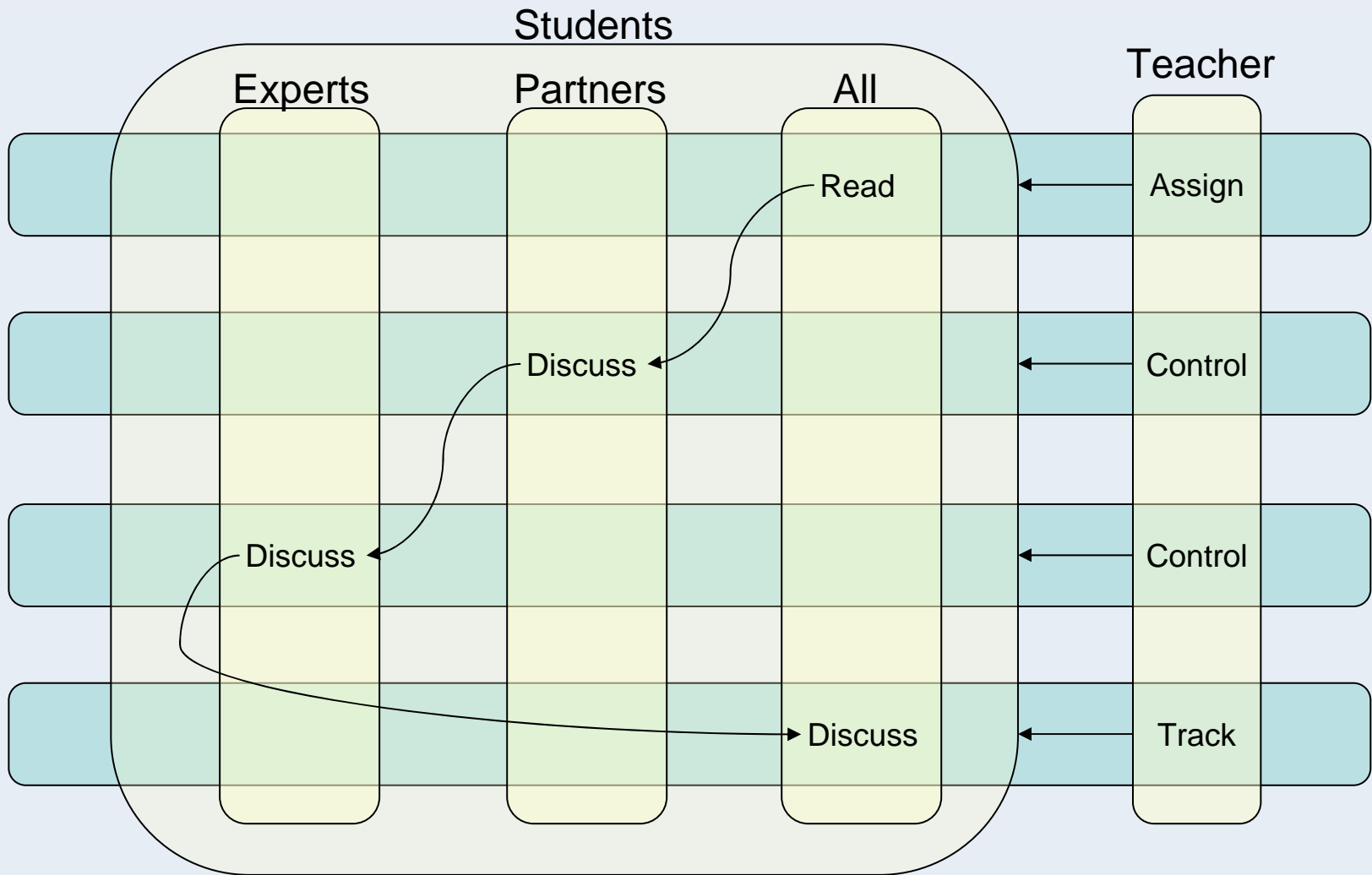


Working experience: Grid Computing

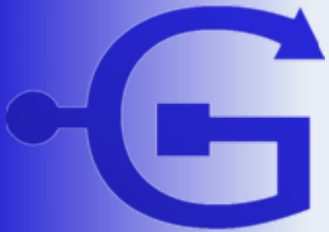
- File properties
 - Can be used to exchange documents between users
- Properties for grouping purposes
 - As an alternative for using roles
 - Role grouping is not well defined.
 - Management requisites increases
- .LRN integration from the user point of view
 - All tools and resources in the same platform
 - But not from the administrator point of view



Demo



Future developments for GRAIL

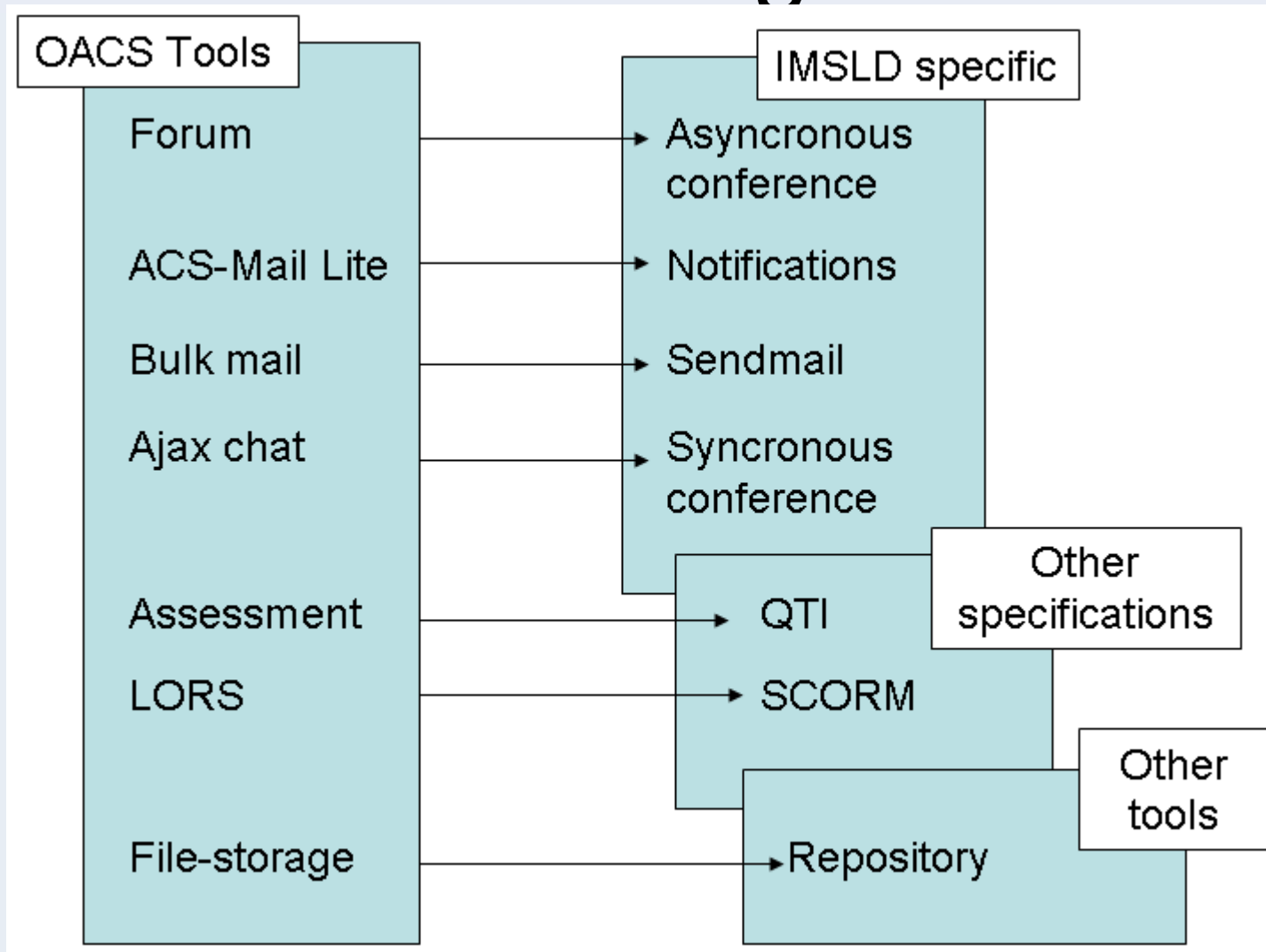


Possible improvements, derived
from real experiences

Main current problems

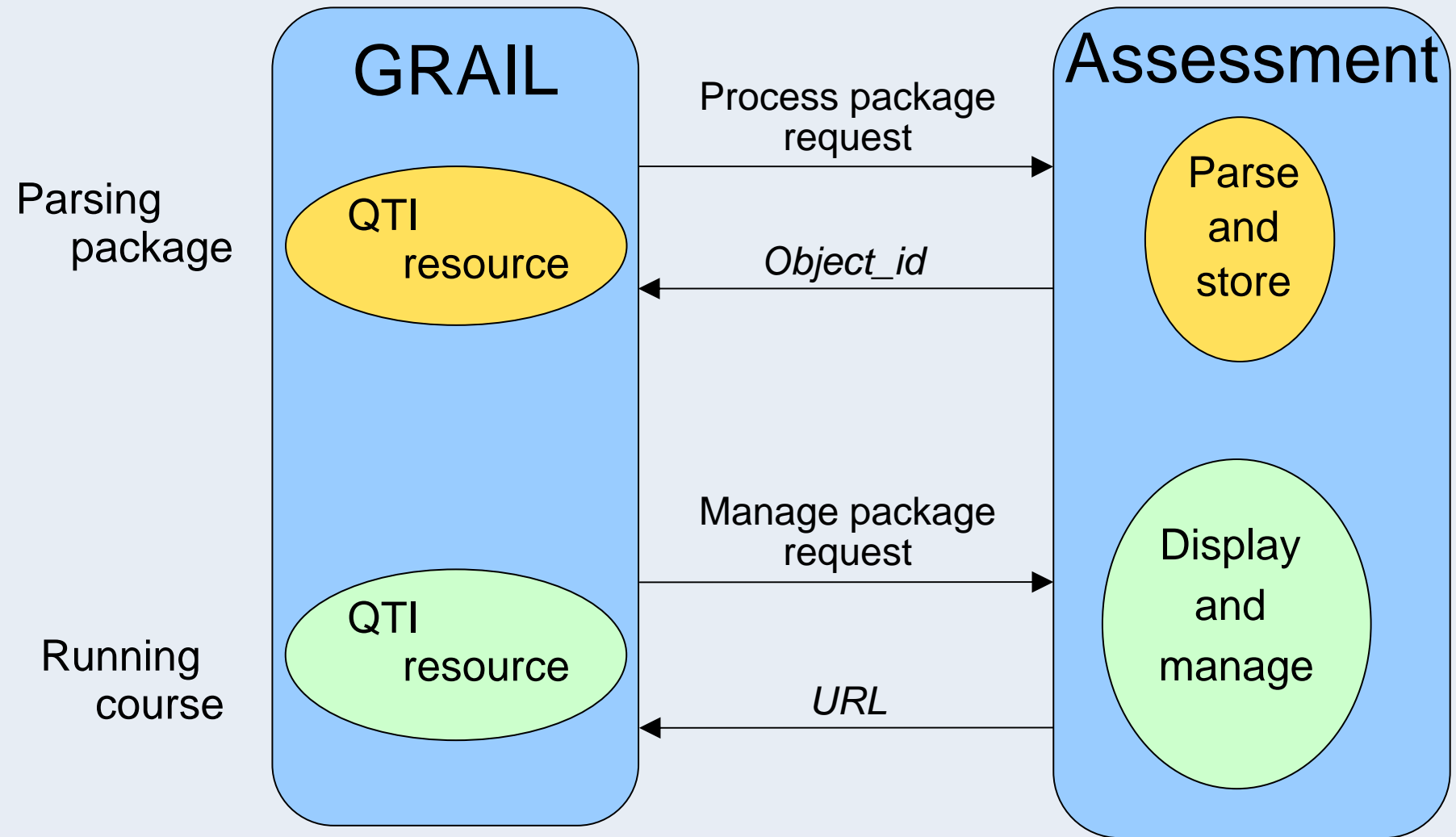
- Authoring problems
 - Not easy to design a course
 - High knowledge of the specification required
 - Re-design of a course
 - Changes in contents
 - Structural changes
- Integration with tools
 - Not easy to use in conjunction with other tools
 - Integration with specifications poorly defined

Current integration



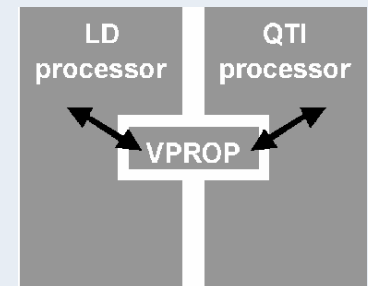


Current Integration



Standards Integration

- QTI
 - Useful for conditionally sequence contents depending on test results.
 - Specified at IMSGlobal
- SCORM
 - Allow reuse of already done Learning Objects
 - Not defined yet



Integration with other tools

- .LRN features able to be integrated:
 - Calendar
 - IMSLD events and timing properties can be published as calendar events.
 - Evaluation
 - Like QTI results, evaluation data can be mapped as IMS-LD properties
 - File-Storage
 - all packaged files stored in the file-storage
 - Names are not clear, so it's not really useful



Integration with other tools

- Information taken from social networks
 - Track info from other users
 - Results, attempts, time expended
 - Contents rating
 - How other users consider resources
 - Awareness in LD
 - Where are other users?
 - What other users are doing?