

Draft of FP7 proposal : on the interoperability between Online Labs and LMS/LCMS.

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What we had yesterday

Online Labs.

Virtual lab #i
(Germany)

Remote lab #1
(France)

Hybrid lab #a
(Austria)

Remote lab #2
(Italy)

Hybrid lab #b
(Portugal)

Hybrid lab #ii
(Spain)

.....

LMS

moodle

ganesha

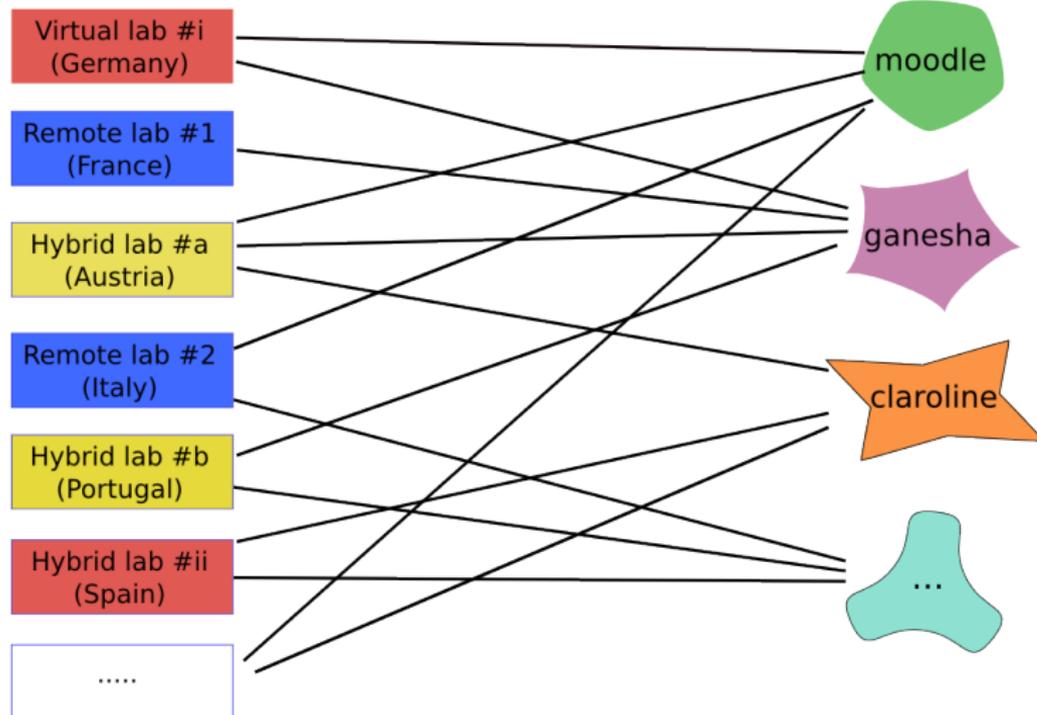
claroline

...

What we are doing (trying to do?) today

Online Labs.

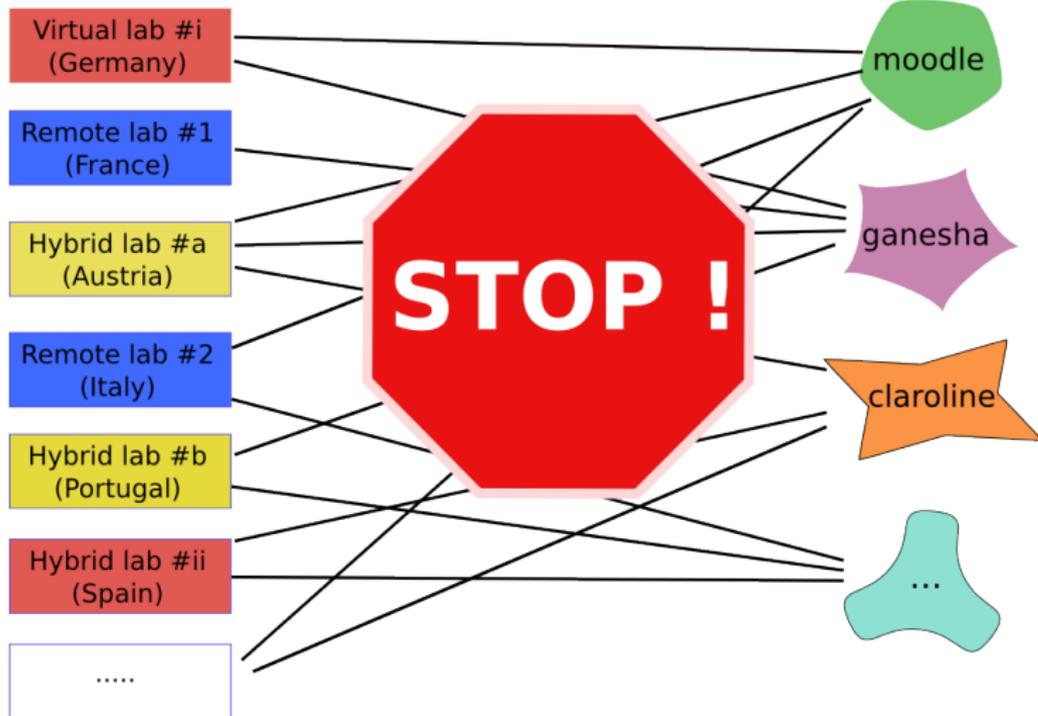
LMS



Which is not the most formalized and (re)usable way of doing things...

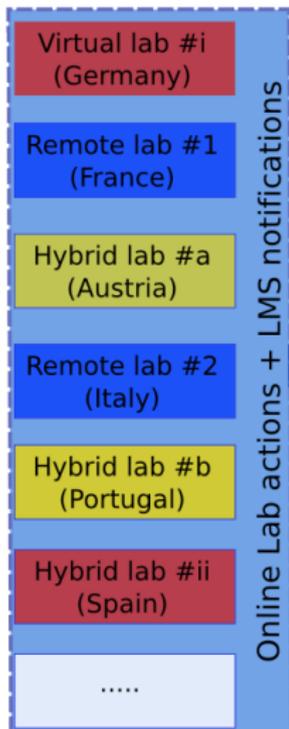
Online Labs.

LMS



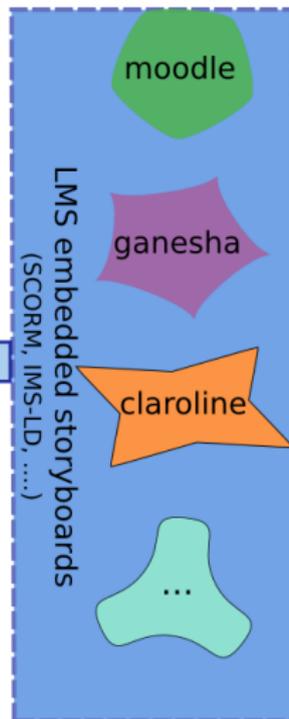
What we could do tomorrow

Online Labs.



Shared formalization
at the european level

LMS



Why is it interesting?

- ▶ Ease Online Lab integration within LMS/LCMS
 - ▶ Once someone made the bindings for one LMS/LCMS, the LMS/LCMS is reachable by any Online Lab using the shared formalism ! (Software reusability among the community),
 - ▶ In other words: once your Online Lab uses the bindings, it can be used in any LMS/LCMS which are using the bindings (LMS independancy for Online labs.)
- ▶ Semantic commitement at the european level
 - ▶ Settle the minimal semantic commitement for a bridge between LMS storyboards and actions conduted on Online Lab. platforms (When should we consider (a sequence of) actions as an event for the learning scenario, and how to map them together?).
- ▶ At implementation time, delegate interoperability to the middleware and not online lab. business methods (« Middleware is everywhere, can you see it? »).

Who can join ?

- ▶ We can bring some skills in Collaborative Remote Labs, Semantic Web, Middleware, Distributed Systems, HCI, Interoperability.(<http://diom.istase.fr/satin/einst>)
- ▶ We are therefore looking for :
 - ▶ scientists with knowledge in Learning Management Systems,
 - ▶ scientists in field of Remote, Virtual and Hybrid labs (because the project aims at a commitment !),
 - ▶ scientists in the social aspects of distance learning (to participate to the formalization),
 - ▶ and teachers who are willing to offer use case situations (integration of online labs in their LMS) ...
- ▶ ... as long as you share the idea of a commitment at the european level for a better follow up of students in LMS during their remote hands-on approaches !

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IEEE 2nd Workshop on Remote control of Device (WoRD) in London in November. Paper submission in the first week of July at <http://word.istase.fr>

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