Technical Infrastructure and Demos

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Resources and Platforms

- Inquiry Learning Spaces (ILSs) constructed, shared and personalized as Open Educational Resources (OER)
  - Embedding an inquiry structure, cloud content, support apps, online labs, and learning analytics
Resources and Platforms

- Portal relying on **six** loosely-coupled platforms

  - Repository: [www.golabz.eu](http://www.golabz.eu)
  - Construction and Personalization: [graasp.eu](http://graasp.eu)
  - Bartering Platform: [tutoring.golabz.eu](http://tutoring.golabz.eu)
  - Helping: [helping.golabz.eu](http://helping.golabz.eu)
  - Federation: [gateway.golabz.eu](http://gateway.golabz.eu)
  - Translation and Personalization: [trans.composer.golabz.eu](http://trans.composer.golabz.eu)
  - Learning Analytics: [workbench.collide.info](http://workbench.collide.info)
Core Technical Design Principles

- Inquiry Learning Spaces are exploited in the classroom
- Resources are selected and exploited by the teachers
- Nothing needs to be installed by schools (cloud only)
- Resources just require a modern browser on computers or tablets to be exploited (responsive design)
- Privacy and anonymity are enforced by design (AngeLA: Learning Analytics guardian angel, secret URL, nickname)
- Solutions are developed using open Web standards: HTML5, WebSockets, OpenSocial, Activity Streams, Creative Commons

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Co-funded by EU (7th Framework Programme)
Demonstrations - Initial Releases

- Go-Lab Repository, Labs, Apps and ILSs

- ILS and ILS construction and personalization and support apps, integrating Learning Analytics

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Smart Device

- Enabling easy plug of remote labs by lab owners

- Standardization in the IEEE P1876 working group on Standard for Networked Smart Learning Objects for Online Laboratories

- Four hardware and software templates targeting desktop or embedded computers: https://github.com/go-lab/smart-device

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Upcoming

- June 1\textsuperscript{st}, 2015 at exp.at’15
  www.fe.up.pt/exp.at2015
  University of Azores
  Ponta Delgada, São Miguel Island, Azores, Portugal
  - Lab Owner workshop
  - IEEE P1876 working group