

The Challenge

- How can an educational application support, integrate within, and measure the total state?
- How can the learner maintain his/her identity and integrity from environment to environment?

- 1. Three Trends
- 2. Interoperability
- 3. Moodle Roadmap
- 4. Modern Learning
- 5. Extending Moodle

Three Trends

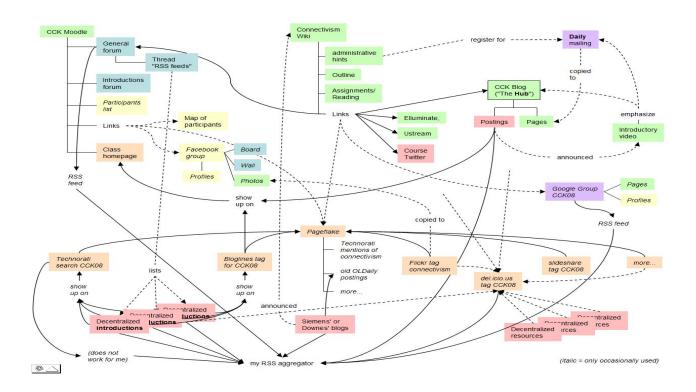
- MOOCs
- Learning Analytics
- Personalized Learning

MOOCs

- Massive
- Online

• Open

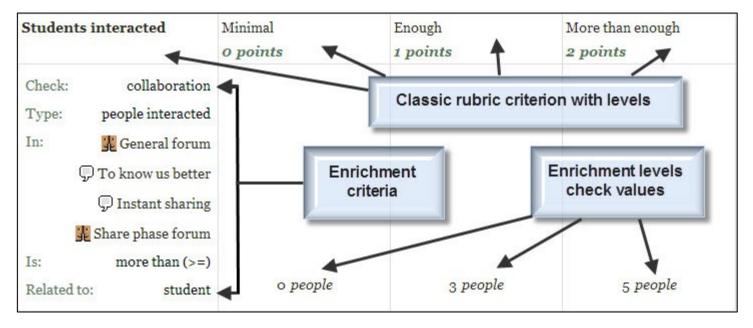
Course



Learning Analytics

- Predictive Analytics
- Recognition Tasks





Personalized Learning

- Rules-Based Events (like notifications)
- User Models
- Adaptive Learning

Recognition Networks The "what" of learning Strategic Networks
The "how" of learning

Affective Networks The "why" of learning





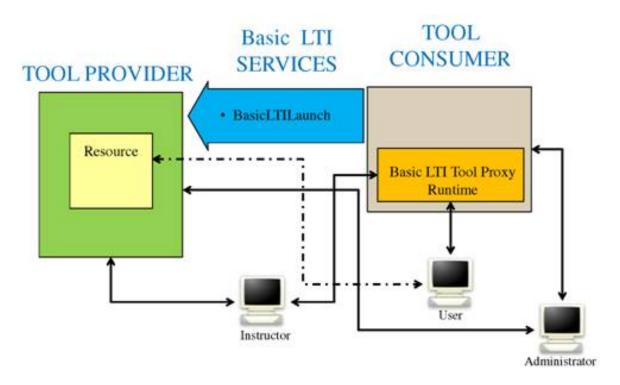


Interoperability

- Learning Tools
- Cloud Storage
- Authentication

Learning Tools

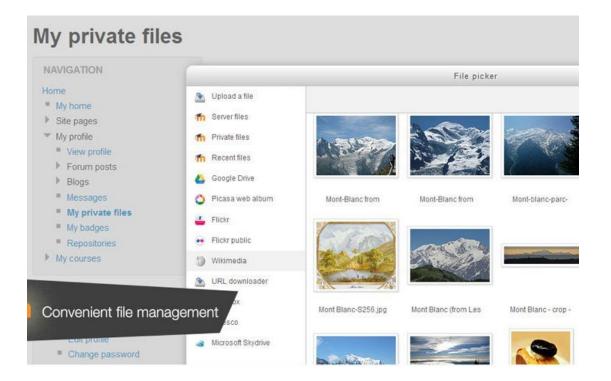
- LTI Producer provides features
- LTI Consumer connects to features



https://www.imsglobal.org/specs/ltiv1p0/implementation-guide

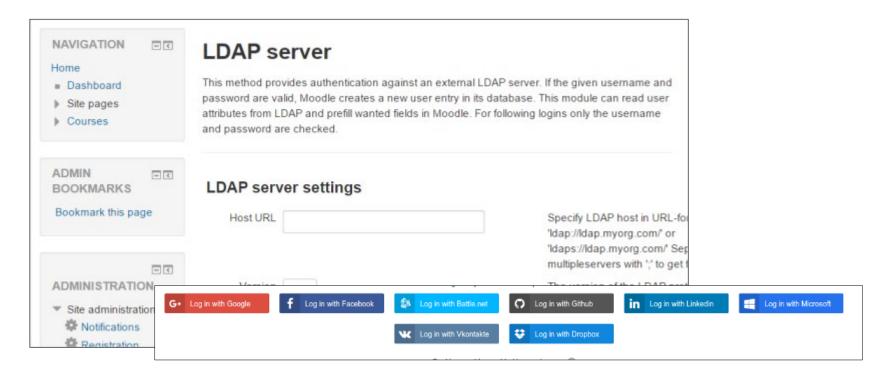
Cloud Storage

- Cloud hosting of Moodle
- File management



Authentication

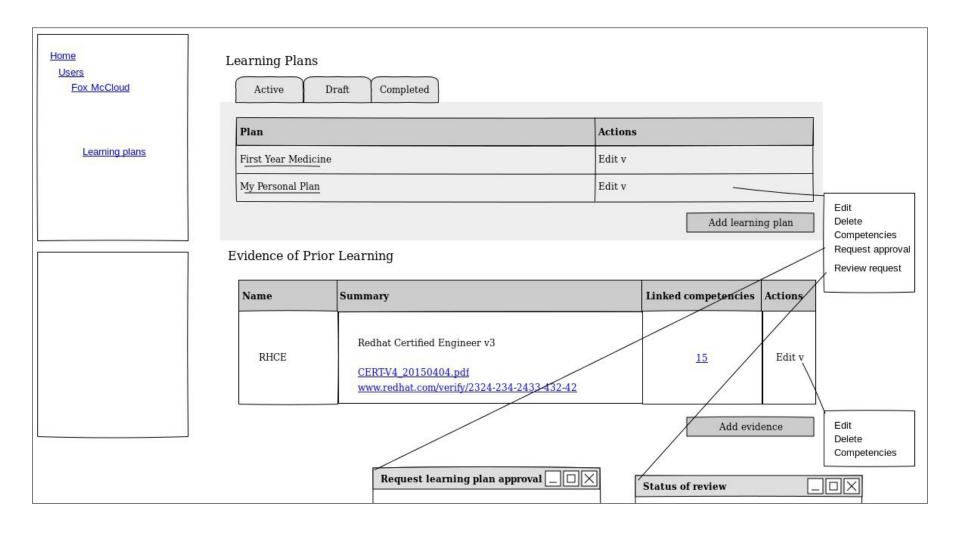
- Basic Moodle Authentication / Moodle Network
- Authentication APIs / LDAP
- Social Network Authentication



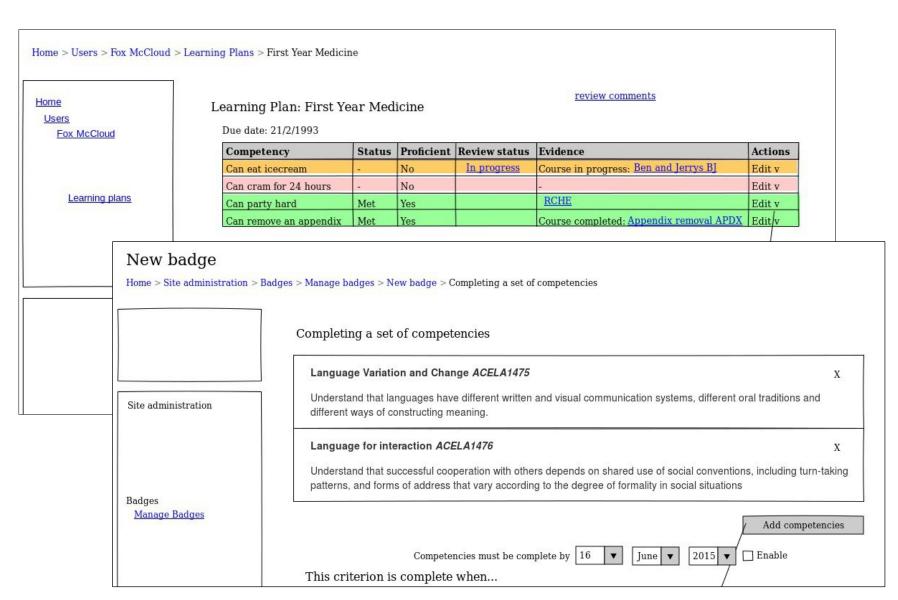
Moodle Roadmap

- Outcomes and competencies
- Learning plans
- Learning processes
- Content and OER

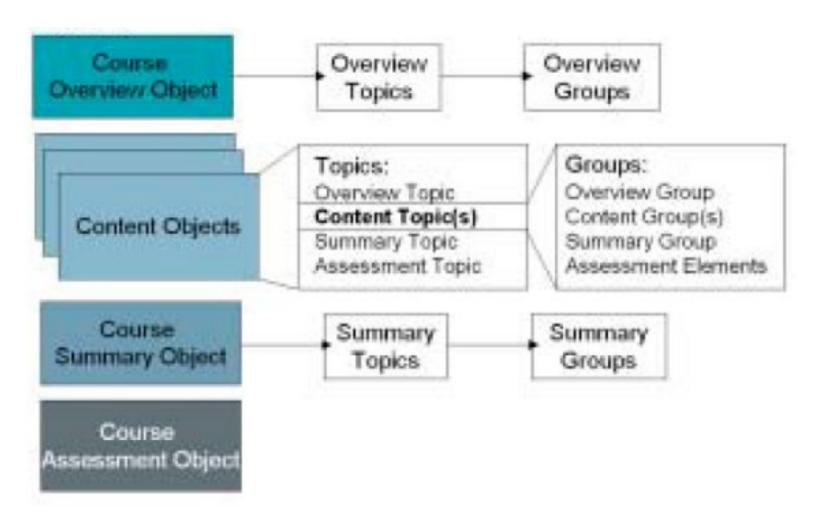
Outcomes and Competencies



Learning Plans



Learning Processes



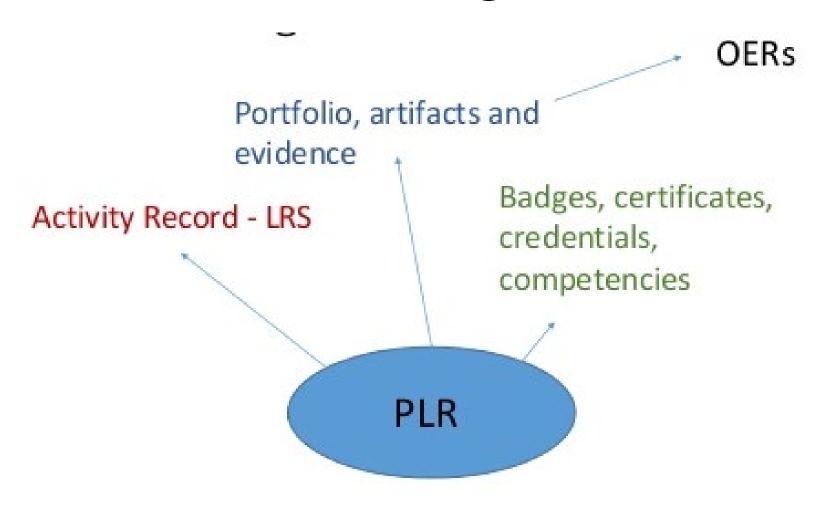
Content and OER



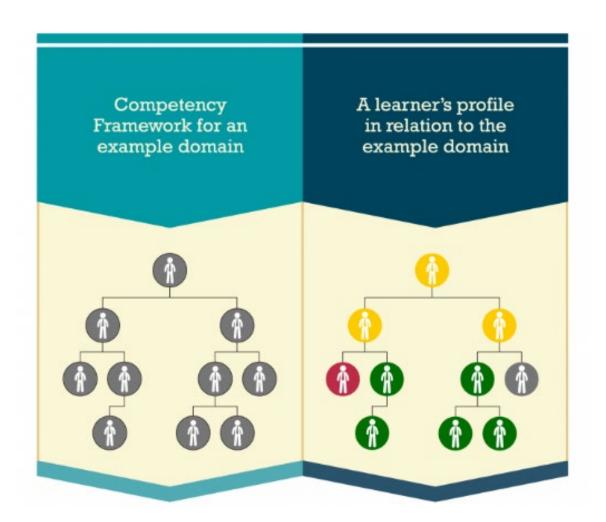
Modern Learning

- Personal Learning Records
- CASS
- Docker

Personal Learning Records



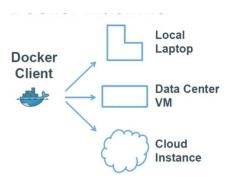
CASS

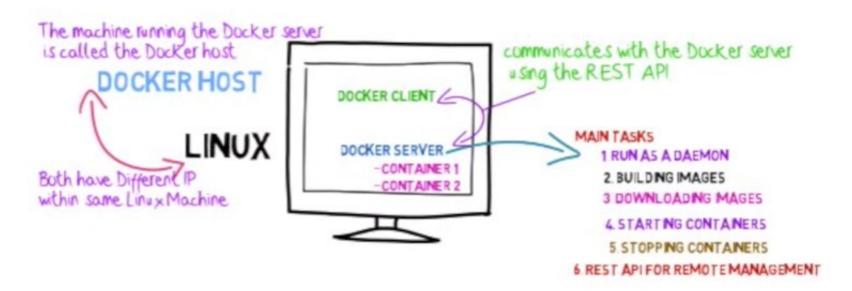




Competency and Skills
System

Docker





Extending Moodle

- Simulations and Work Environments
- Employment and Work Opportunities
- Personal Learning Environment (PLE)

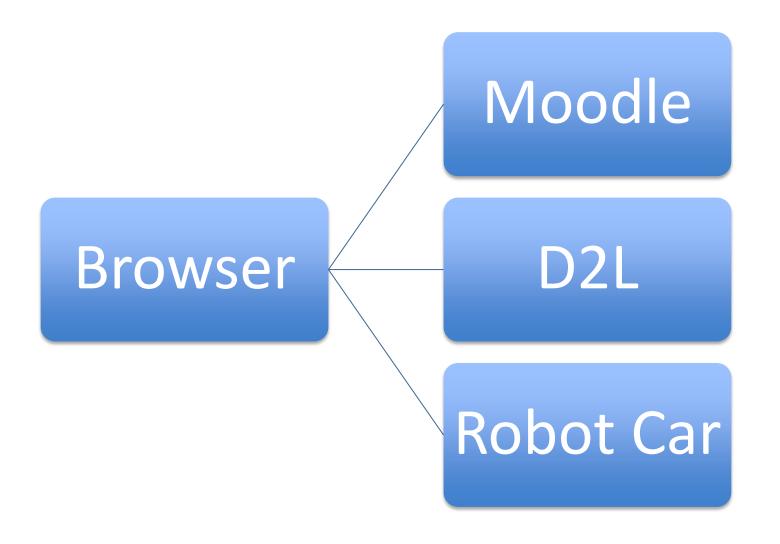
Sims and Work Environments



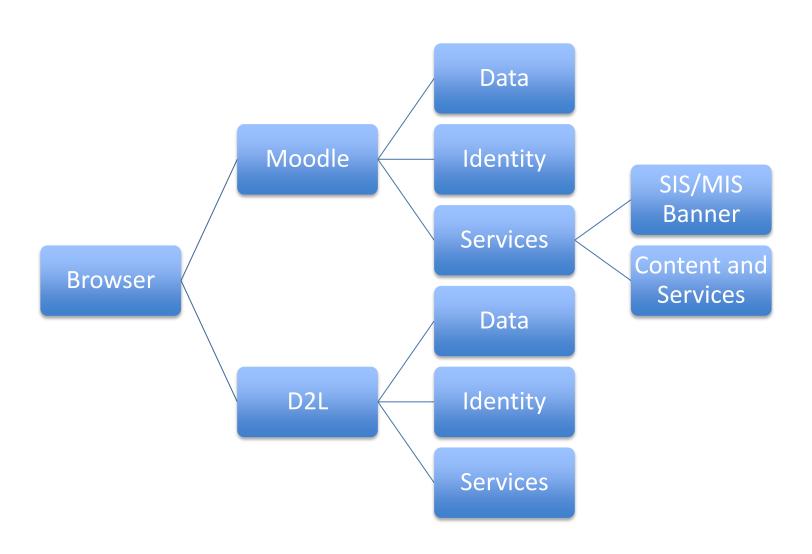
Employment and Opportunities



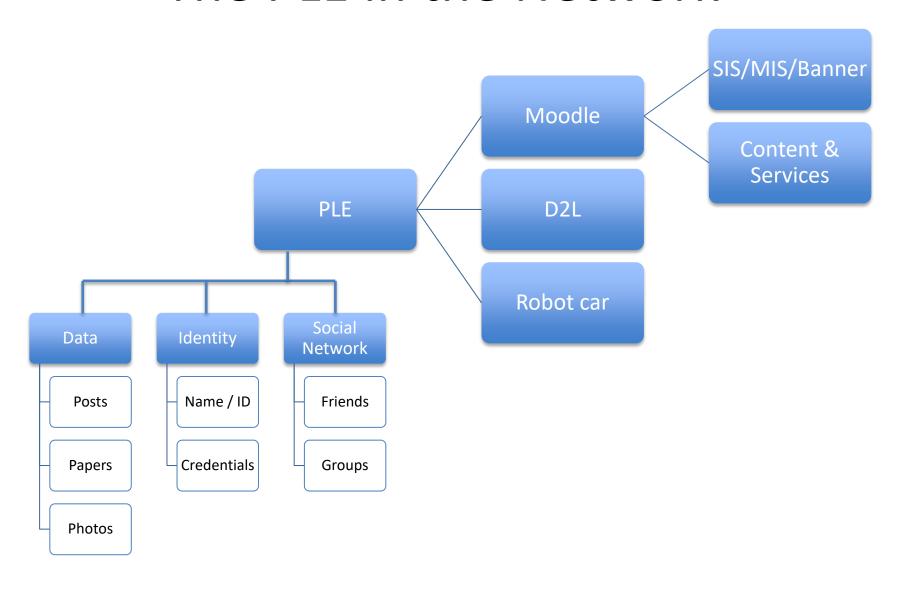
The Network in the LMS



The Network in the LMS



The PLE in the Network





http://www.youtube.com/watch?v=X0iI0pgTUx0

http://www.downes.ca

Stephen Downes