# Is there a future for learning management systems ?

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Dokeos Users Day – Geneva – December 4 2008

# A short list of issues in education and technology

**1. Pedagogies**
- Transmission
- Tutoring
- Coaching/ projects

**2. Scenario design**
- IMS LD, IMS SS,
- CSCL, ….

**3. Learner control**
- Personal learning environments,
- E-portfolios, ….

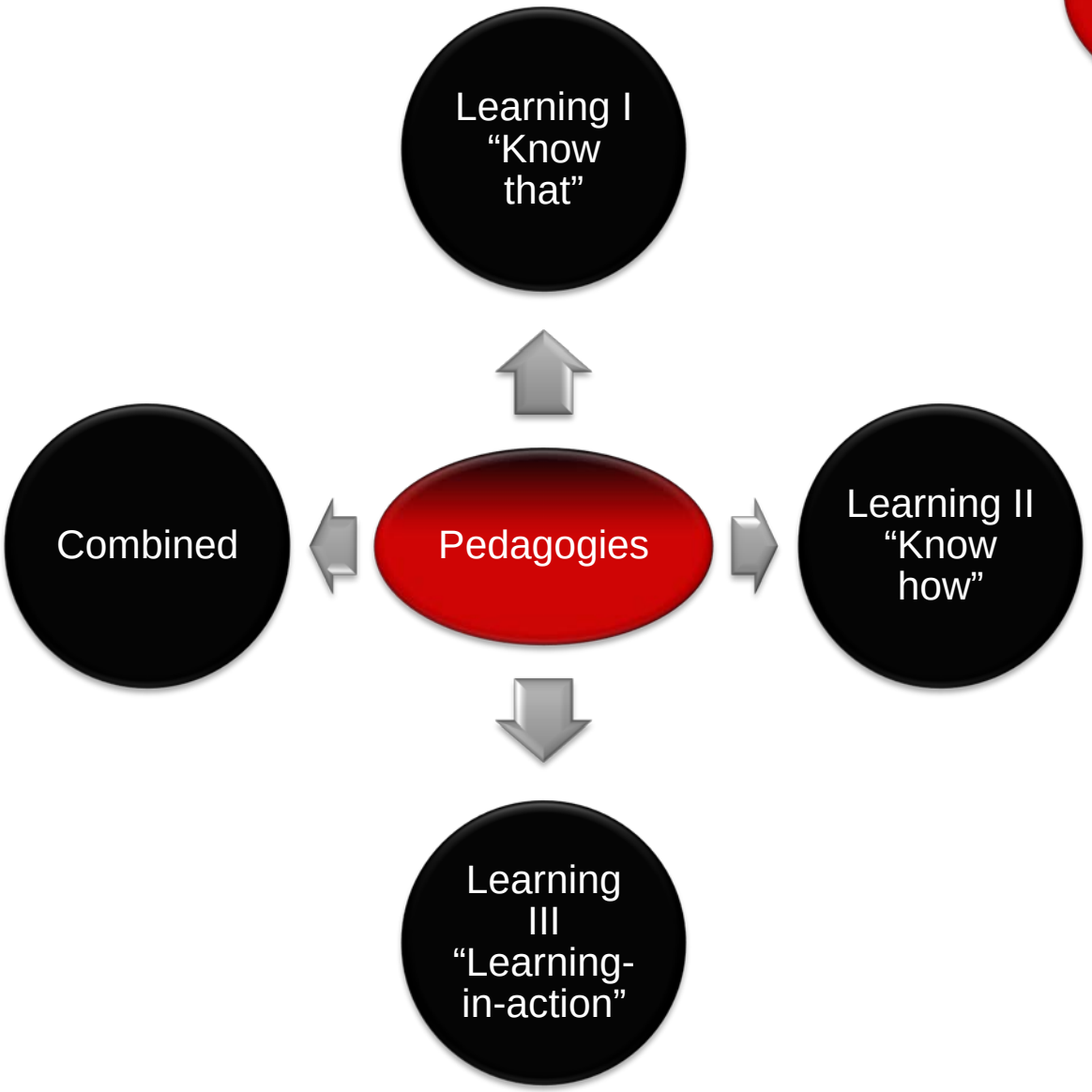
**4. Teacher enablement**
- All-in-one solutions ?
- Portals, Wikis, ….

**5. Documents**
- Web 2.0 culture
- Semantic markup

**6. Integration**
- Services
- Plugin APIs
- Campus integration

# Pedagogies

1. Pedagogies



# What support for pedagogies ?

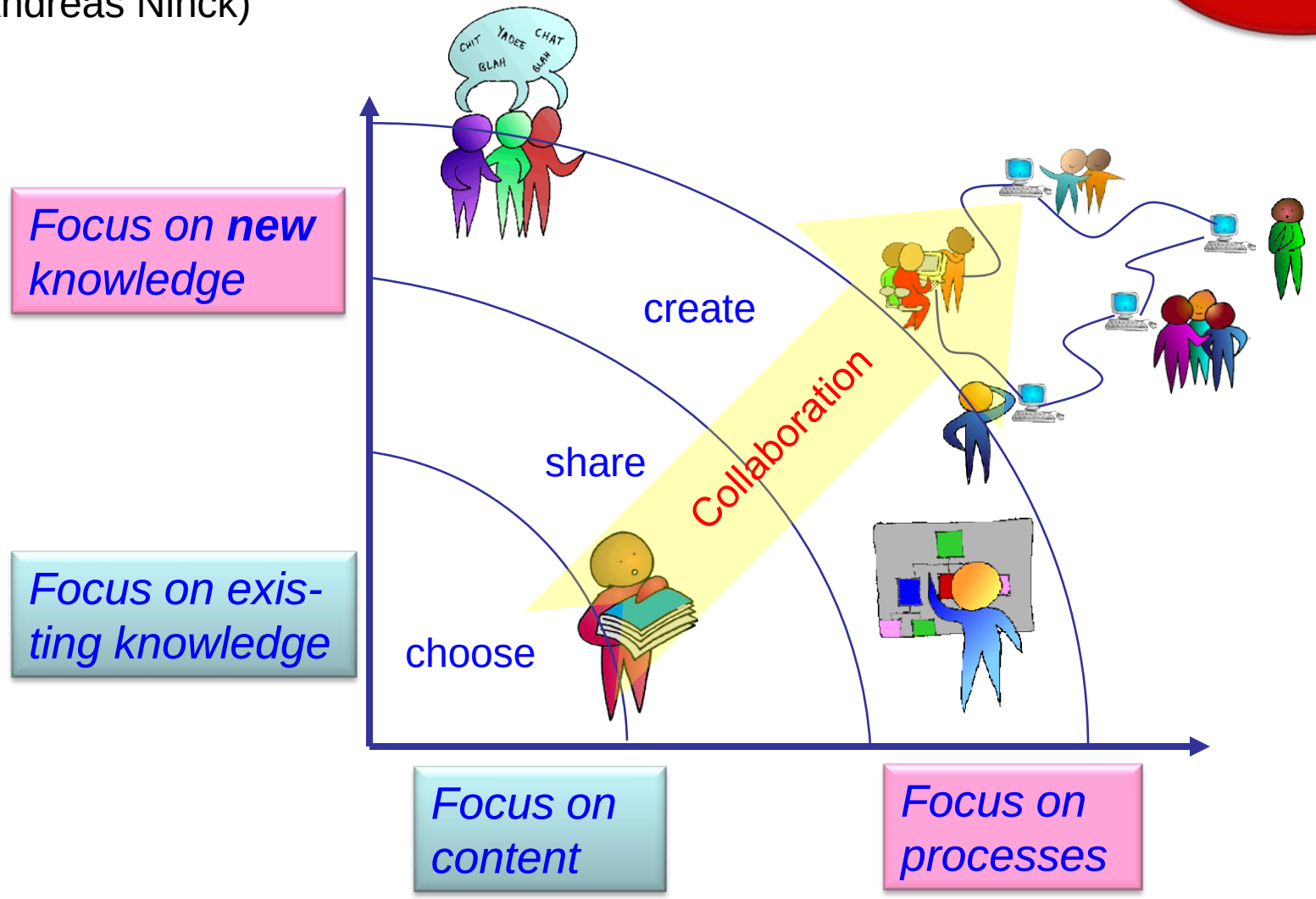
1. Pedagogies

| **Learning I**<br>**Lecture** | **Learning II**<br>**Tutor** | **Learning III**<br>**Coach** |
|---|---|---|
| knowing that (facts, simple concepts) | knowing how (reasoning, procedures, problem solving) | knowing in action |
| telling | explaining | consulting |
| facts | skills | competences |
| information | communication | collaboration |
| remind | practise | reflect |
| reproduce correct answers | apply correct methods | cope with complex situations |
| **PPT**<br>**Scorm 1.2 LOs, ...** | **LMS (CMC)**<br>**Learning design engines, ...** | **Portals, (Real) wikis, Web 2.0 services** |

# Learning III: production and collaboration ….

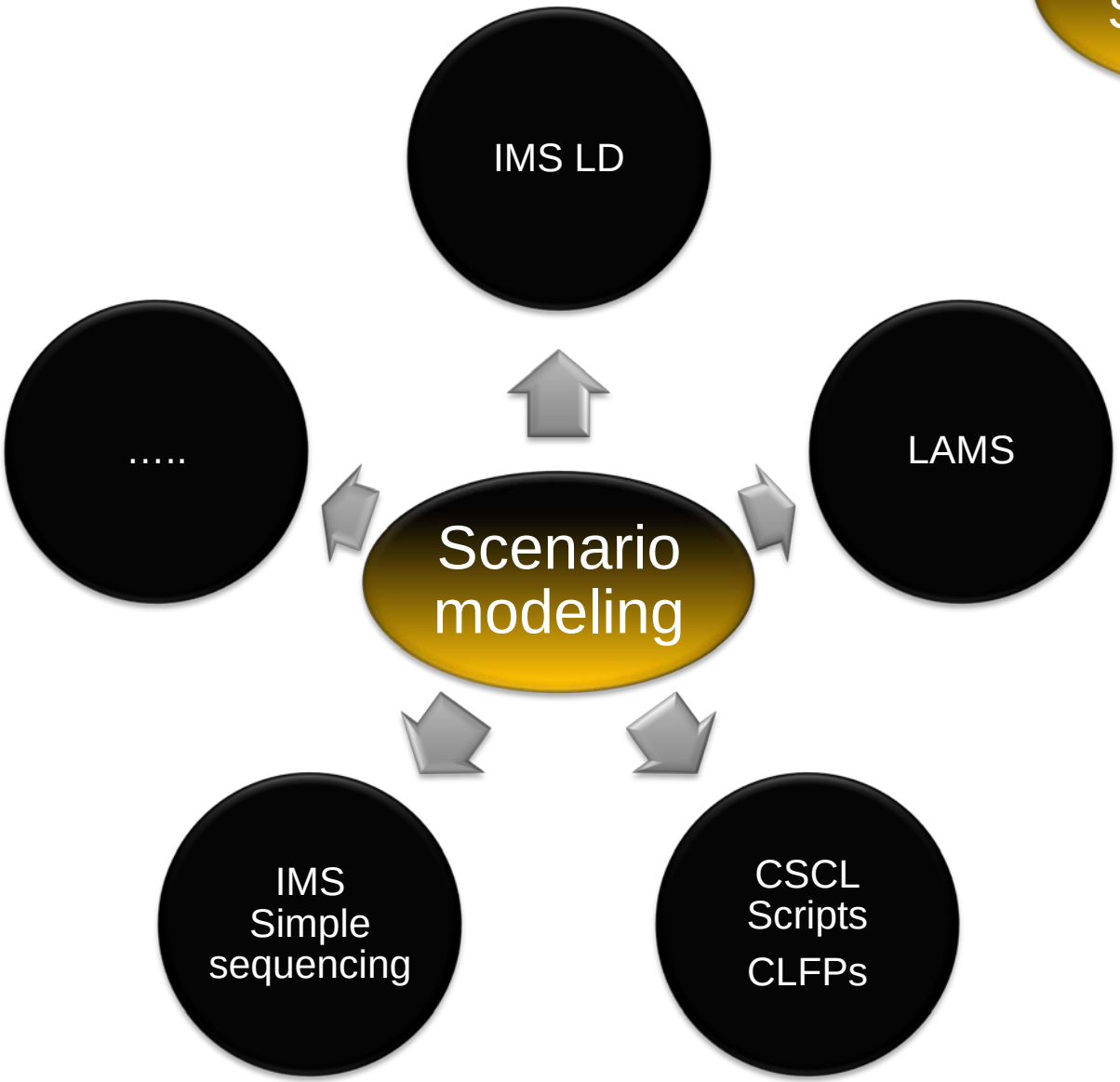
1.2 Pedagogies

Particularly important in higher vocational training …
(Andreas Ninck)



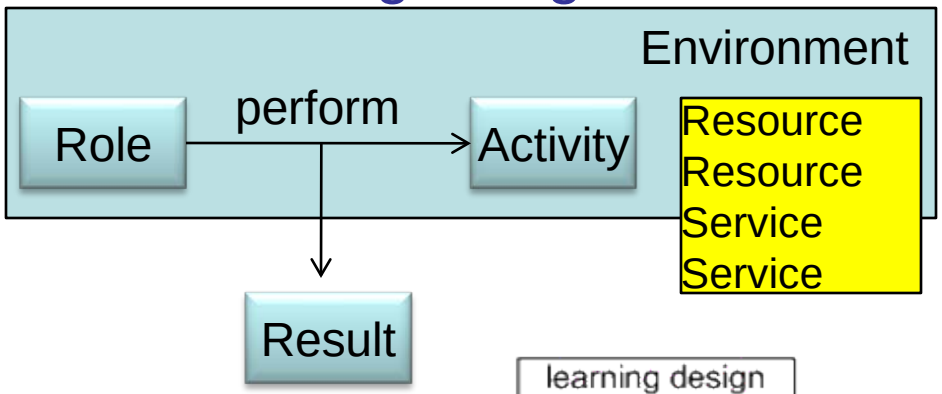
# Educational modeling languages and systems

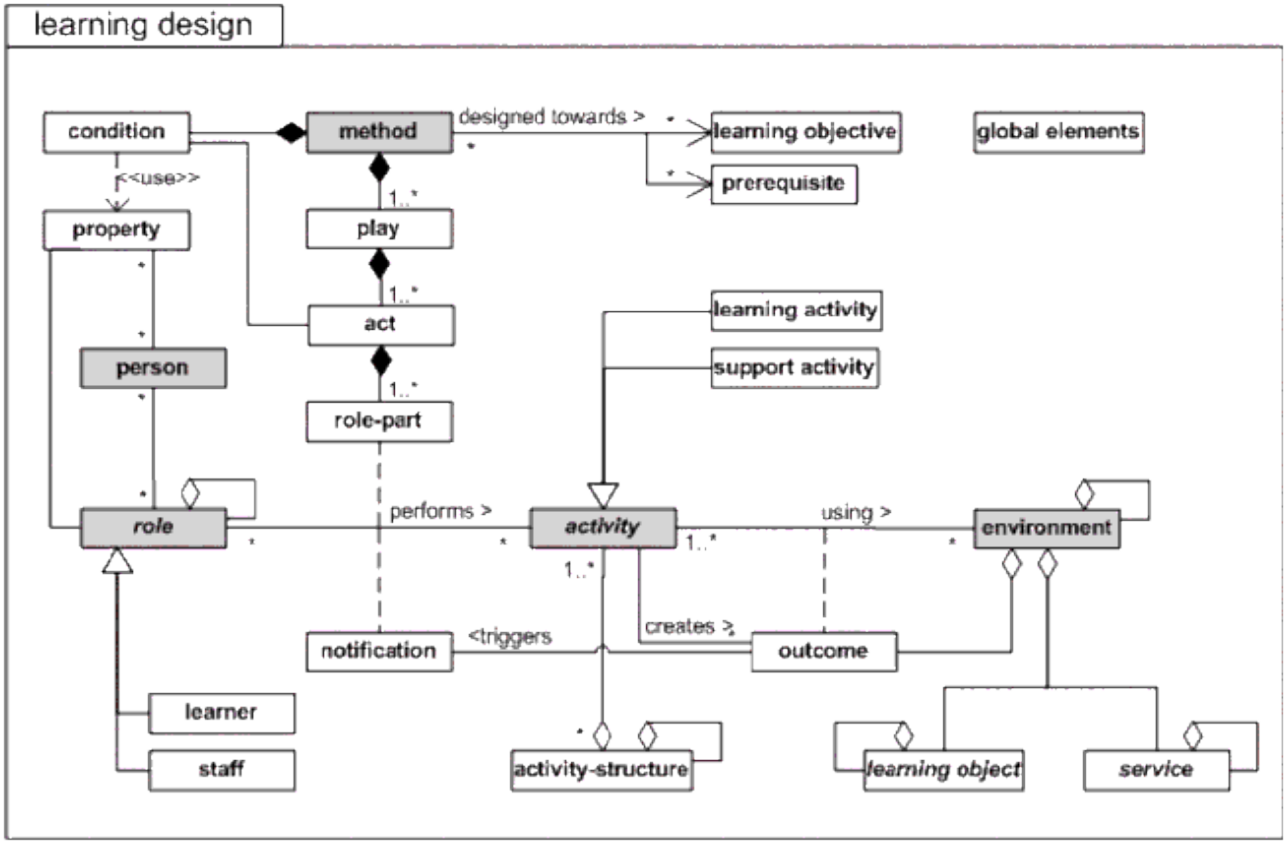
2. Scenarios



# IMS Learning design

2.1 Scenarios




Others !
e.g. IMS SS
CLFPs, …

# Sequencing with the LAMS system

2.2 Scenarios

http://tecfasun1.unige.ch:8080 - Author :: LAMS - Mozilla Firefox

File Edit Tools Help

New Open Save Copy Paste Transition Optional Flow Group Preview

Activities Toolkit

Chat
Chat and Scribe
Forum
Forum and Scrib...
Multiple Choice
Notebook
Noticeboard
Q and A
Resources and F...
Share Resources
Submit Files
Survey
Voting

peak-oil-activity

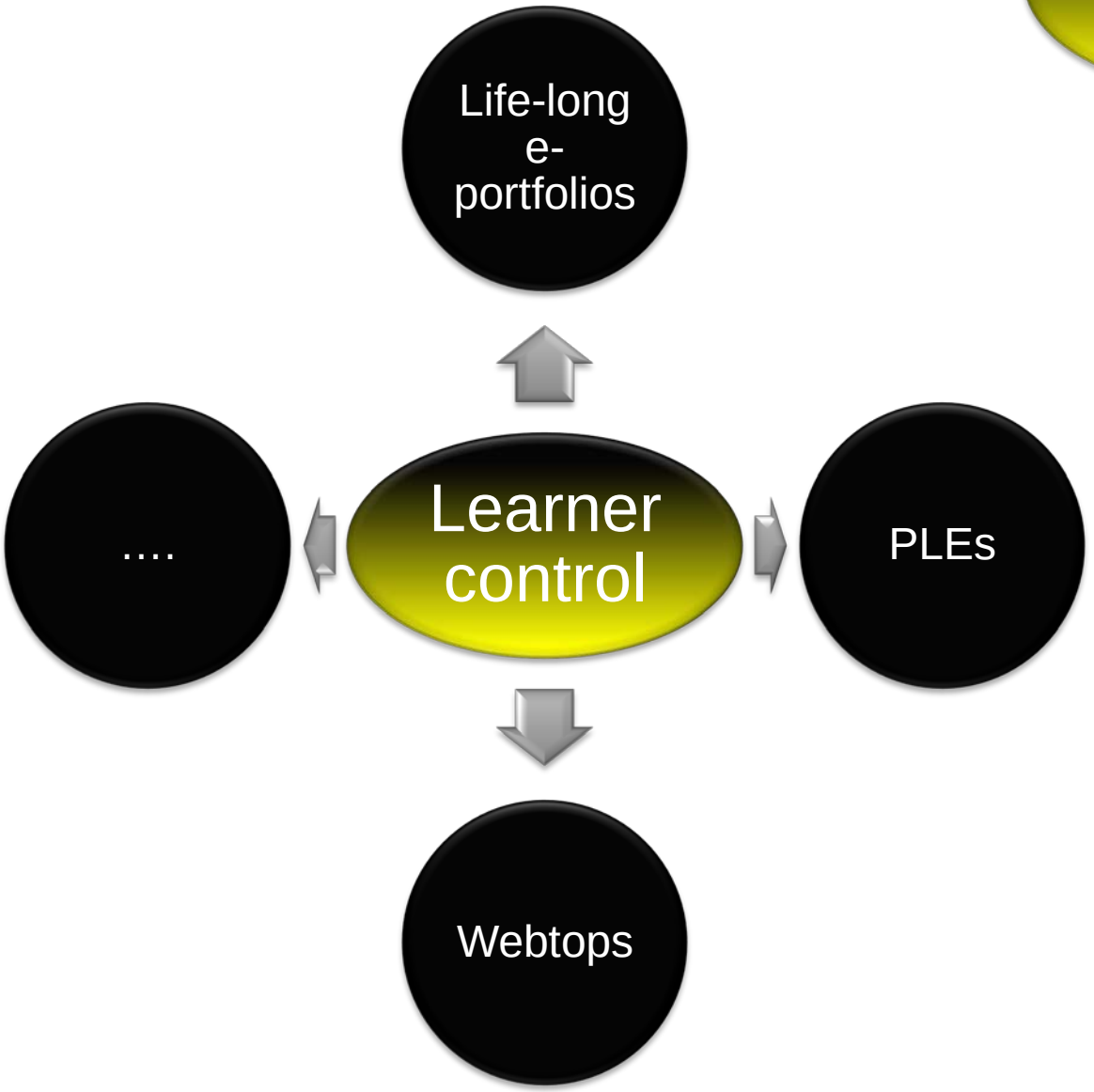
HTML Noticeboard
Share resources
Groups for Q & A
Noticeboard
Peak Oil Questions and
5 - Activities
Group 1
Group 2
Group 3
Group 5
Group 4
Forum
Share resources
Groups of 2 to 3
Chat & Scribe + Journal
chat
Group report
Share resources
Journal

Properties

Transferring data from tecfasun1.unige.ch...

# Learner

3. Learner control



# Personal environment: a MY Space

(Anderson & Hutrum)

3.1 Learner control

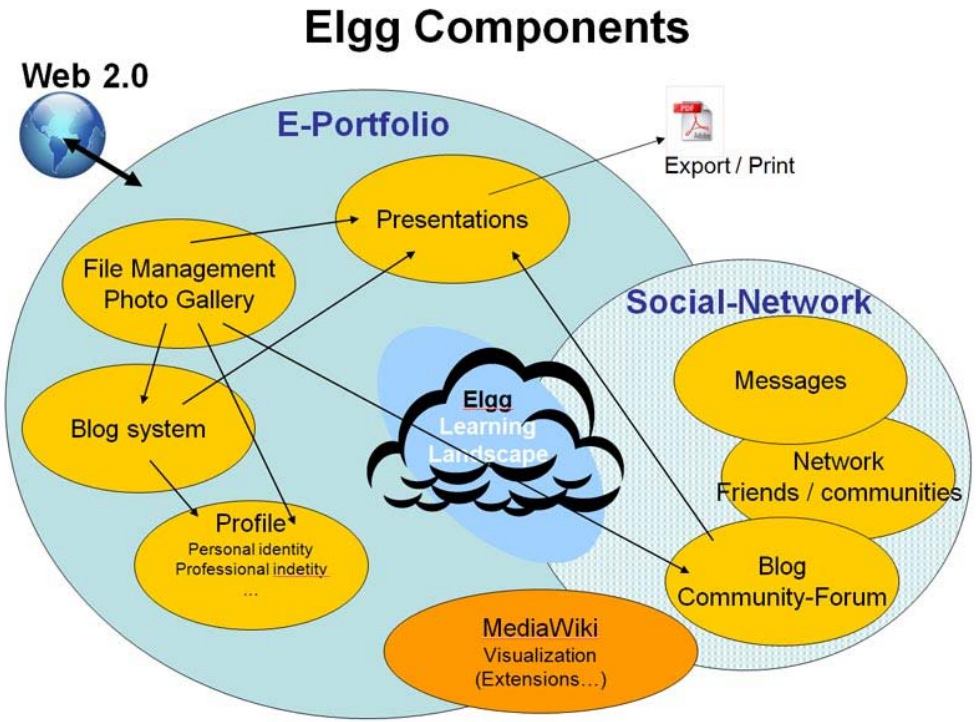
Learners do have an environment, and school is part of it
But **they** organize it …

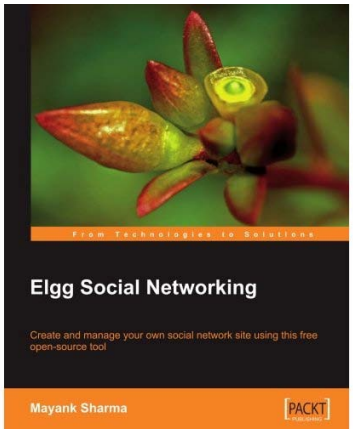
# Example: e-Portfolio / social software

3.2 Learner control

Example: Elgg (blog-centered social software)

http://elgg.org/



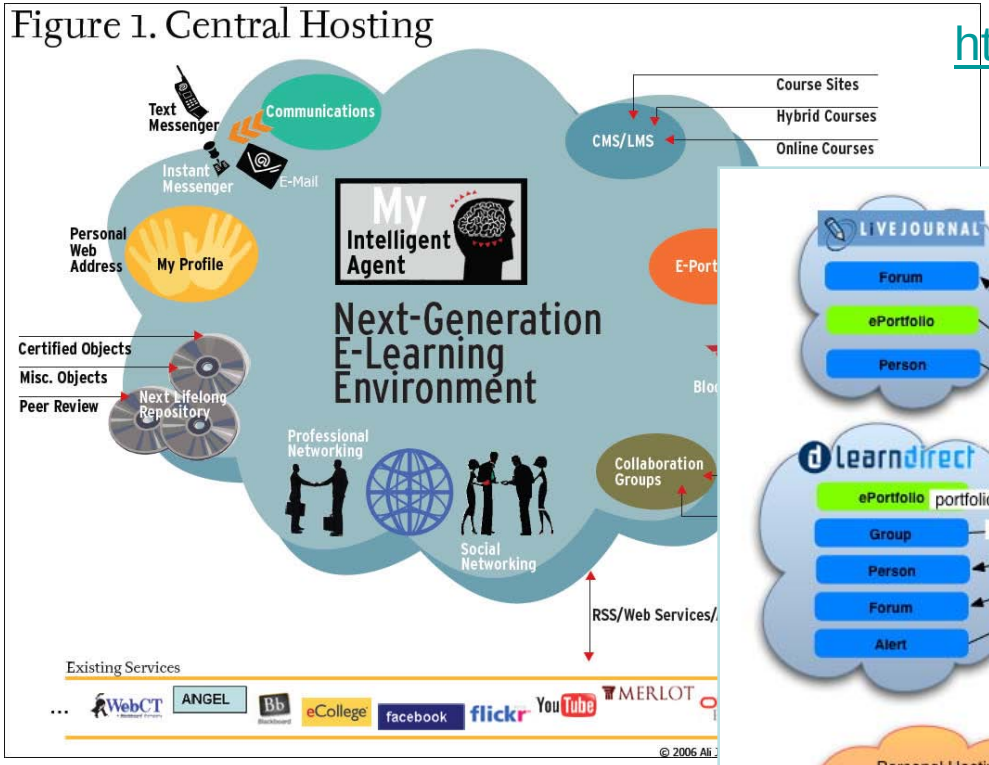




Others: Eduportfolio, Cyberfolio, Mahara….

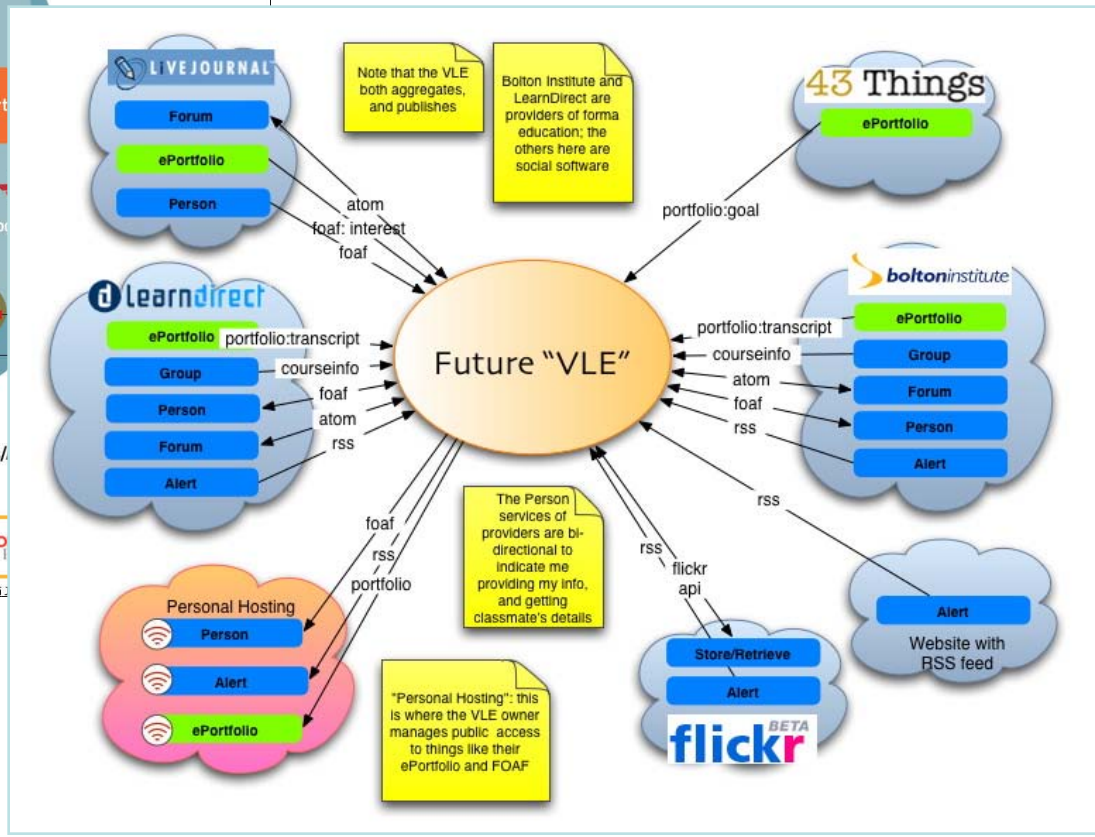
# Personal learning environments

3.3 Learner control

- Examples: Epsilen and Plex




http://epsilen.com/ (Jafari)

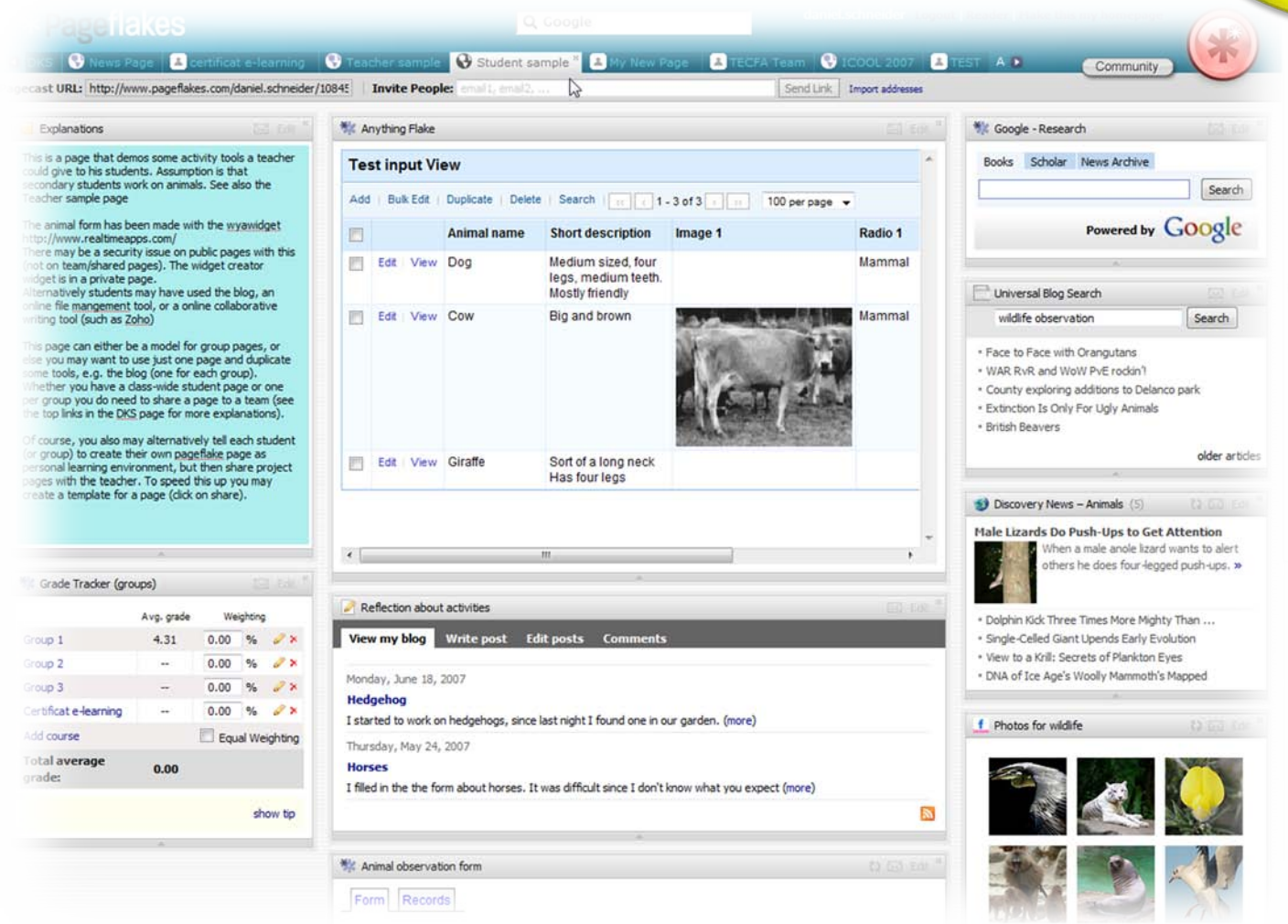



http://zope.cetis.ac.uk/members/ple
(Wilson et al.)

# Webtops and web 2 widgets as PLEs

3.4 Learner control

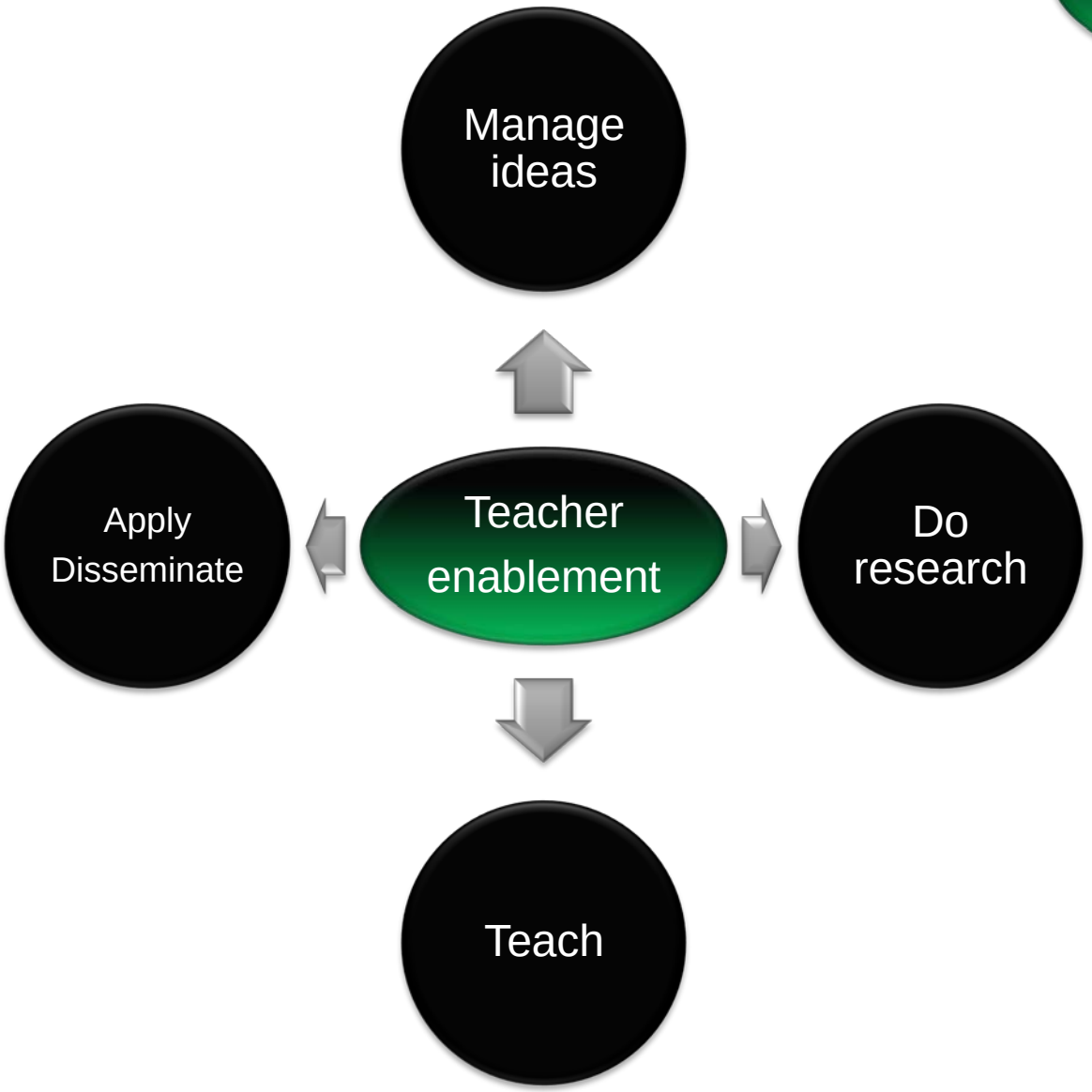
Example: Pageflakes: [http://www.pageflakes.com/](http://www.pageflakes.com/)




Others: NetVibes, Zoho, Goggle apps, Yahoo widgets, Air apps, …

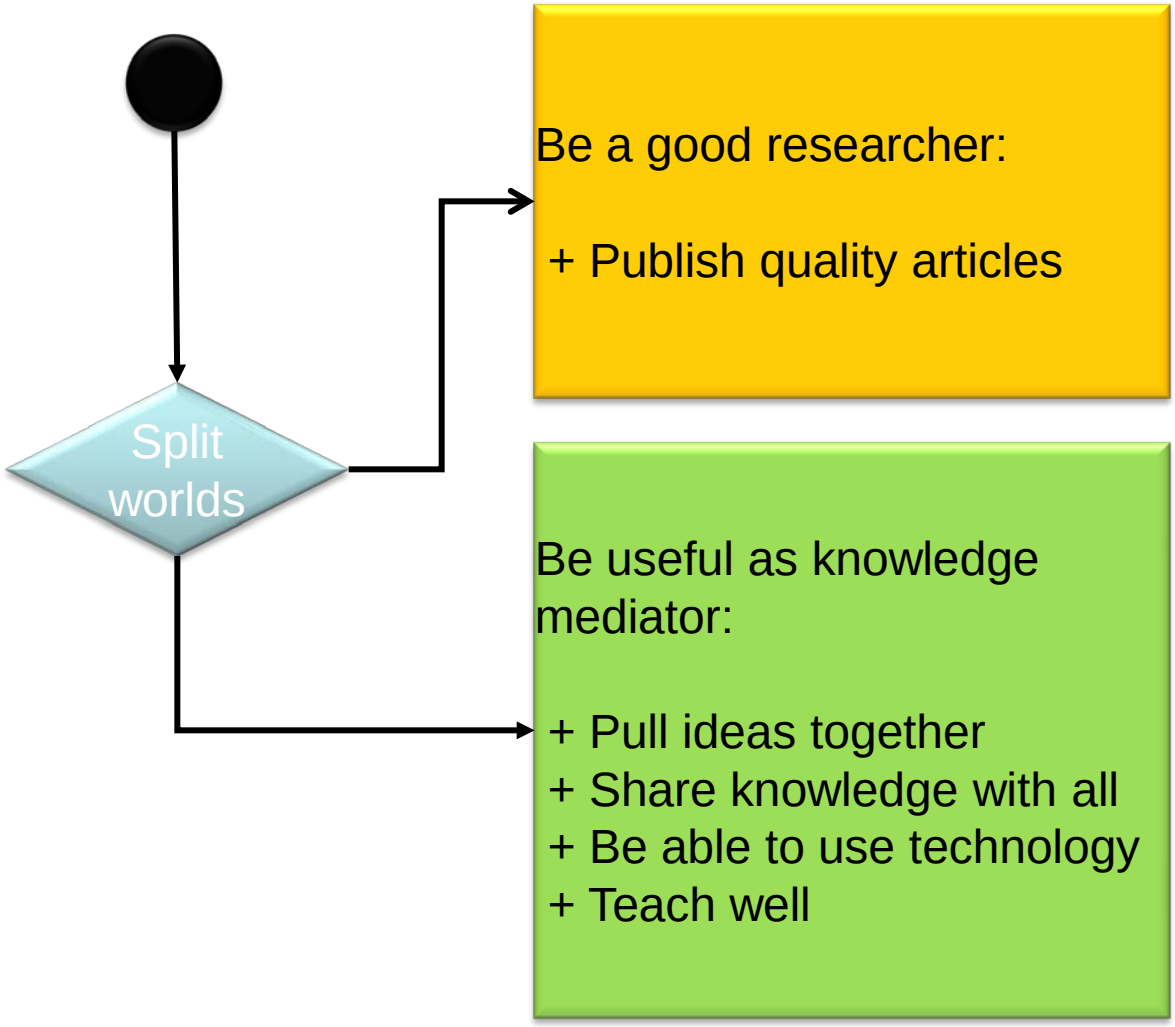
# Teacher

4.
Teacher
enablement



# What is a university teacher ?

4.1 Teacher enablement




Four scholarships - Boyer (1997)

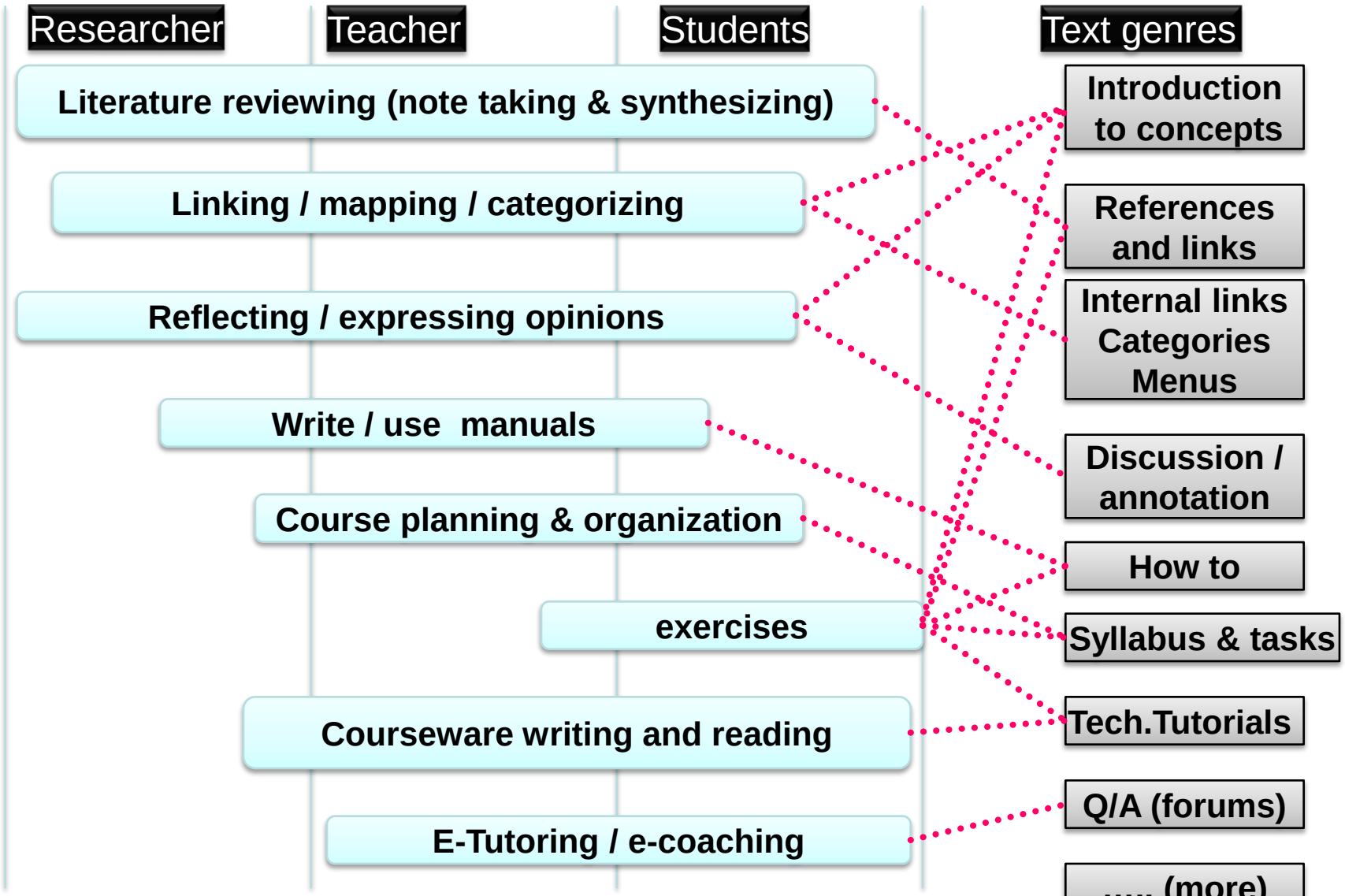
(1) Discovery

(2) Integration
(3) Application
(4) Teaching

Or is there a way to find **time** (**and tools**) for both, i.e. some synergy ?

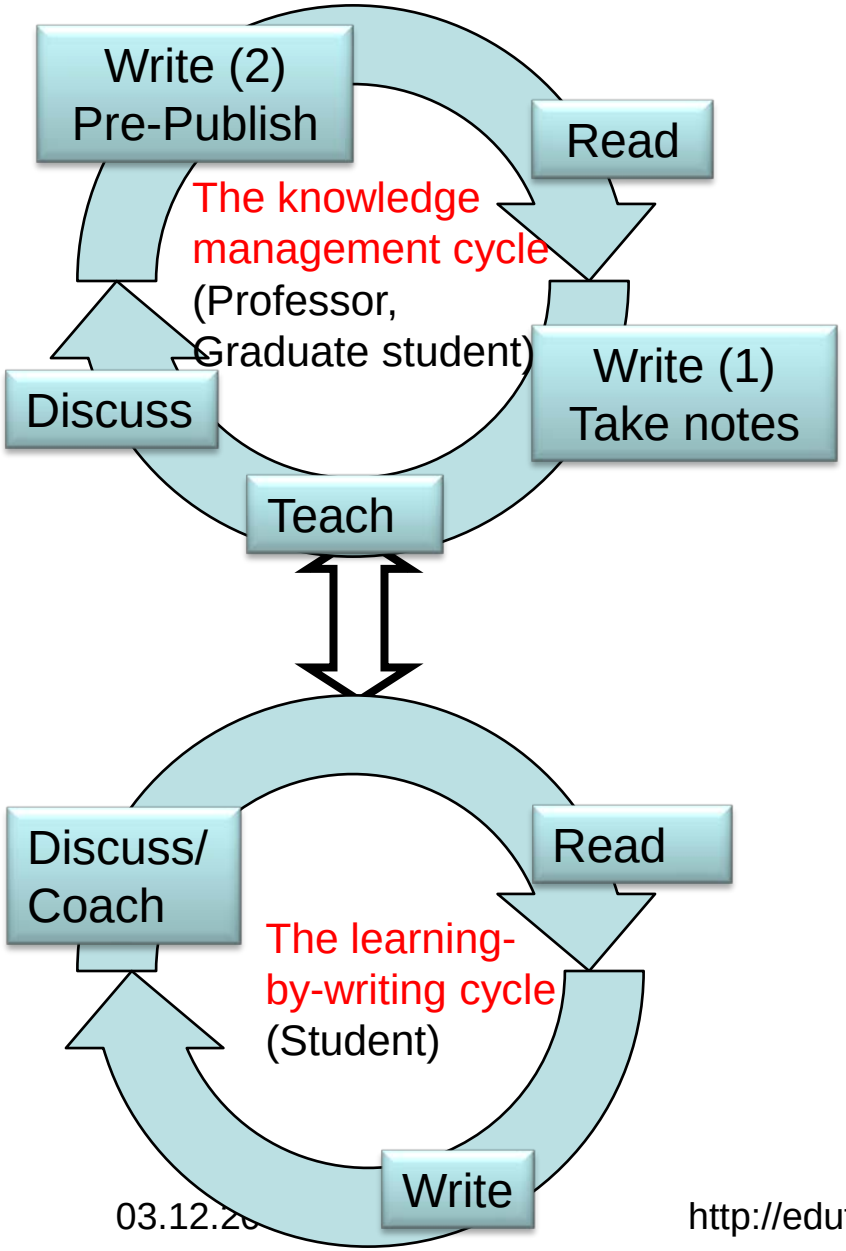
# Shared activities and products in different scholarly activities

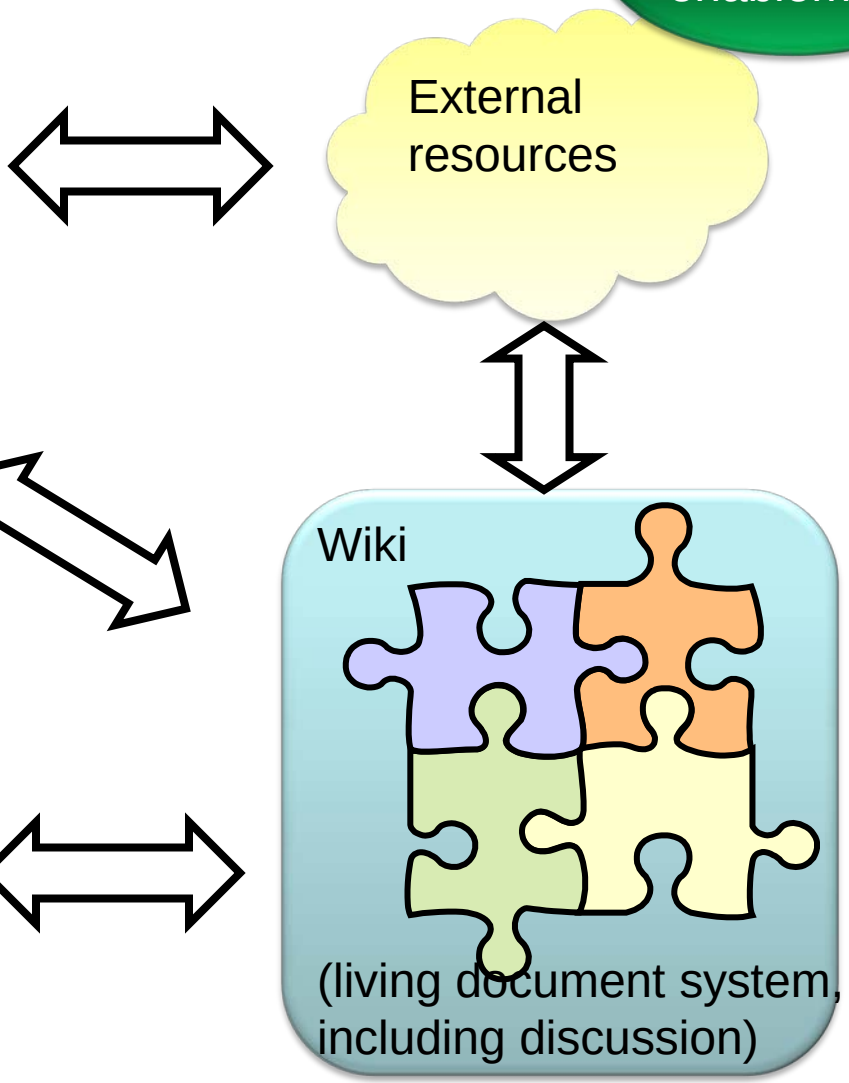
4.2 Teacher enablement



# Wikis as knowledge building community

4.3
Teacher
enablement



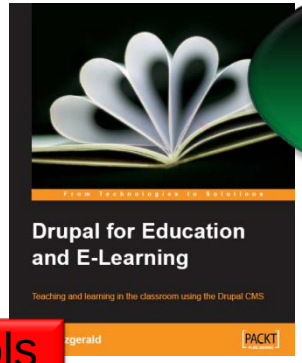



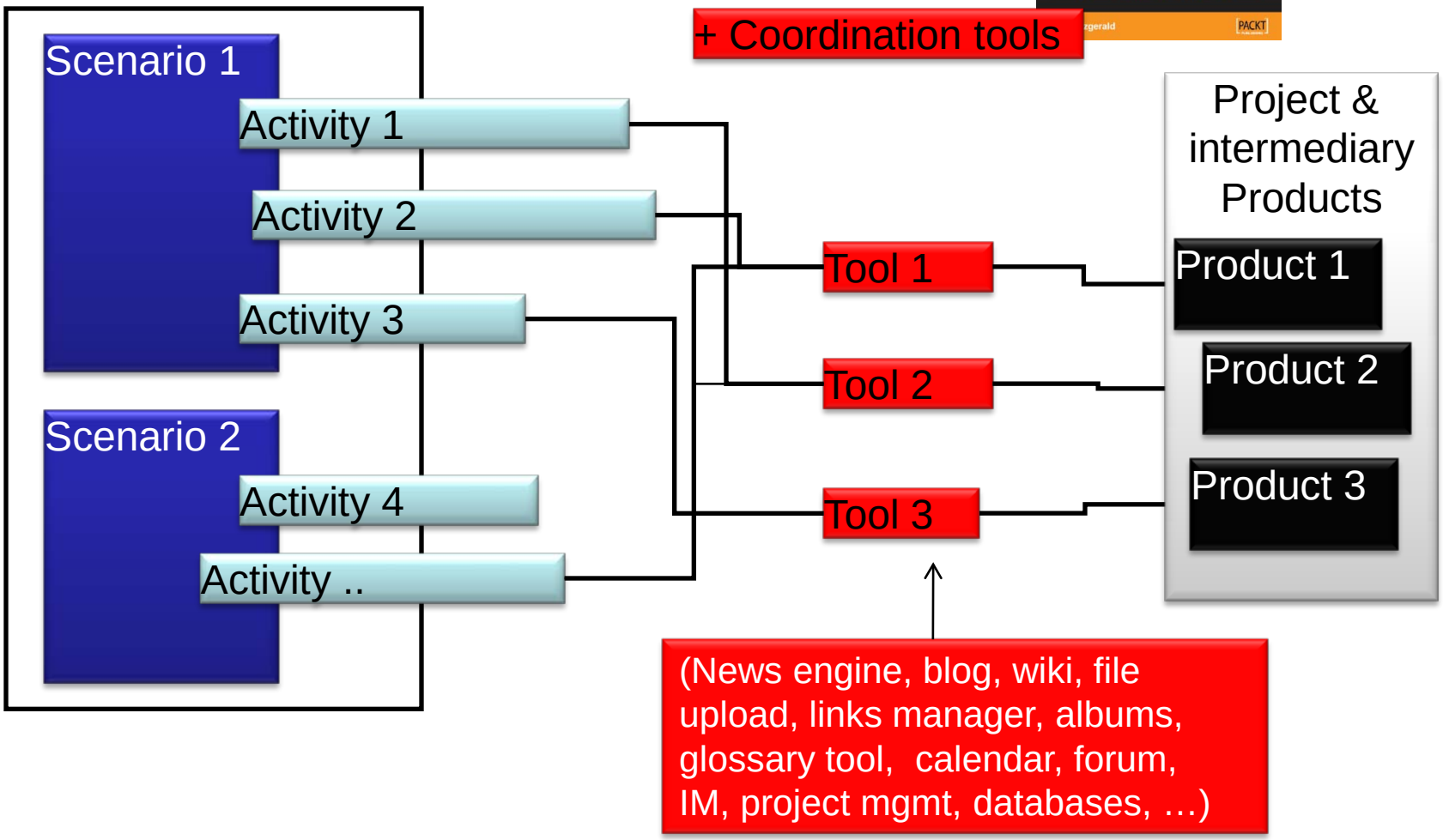
# Teacher's all-in-one portals (C3MS)

4.4 Teacher enablement

Example: http://groups.drupal.org/drupal-education

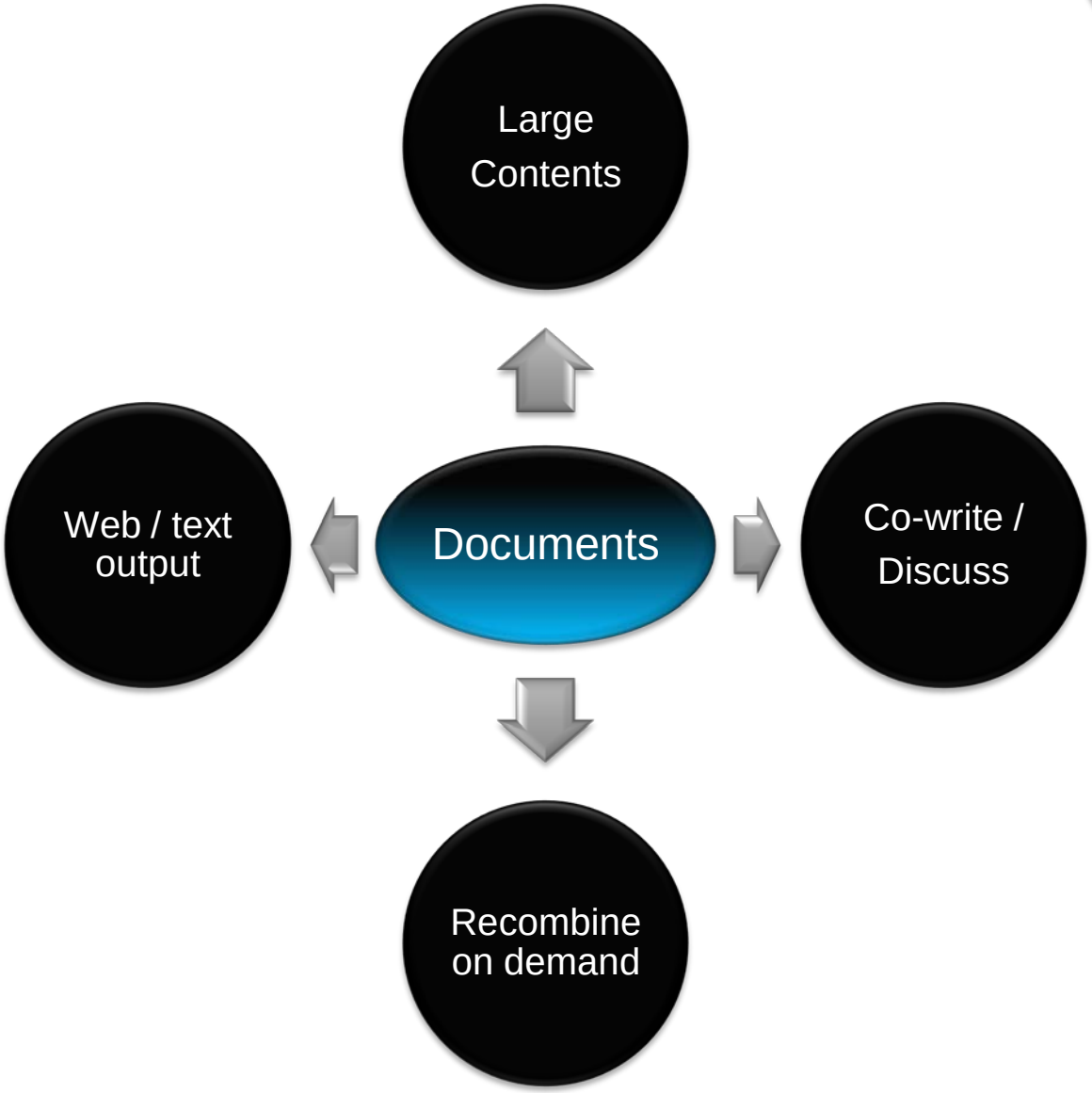
Other systems/services: Drupal, Zikula, Ning, ….



# Documents

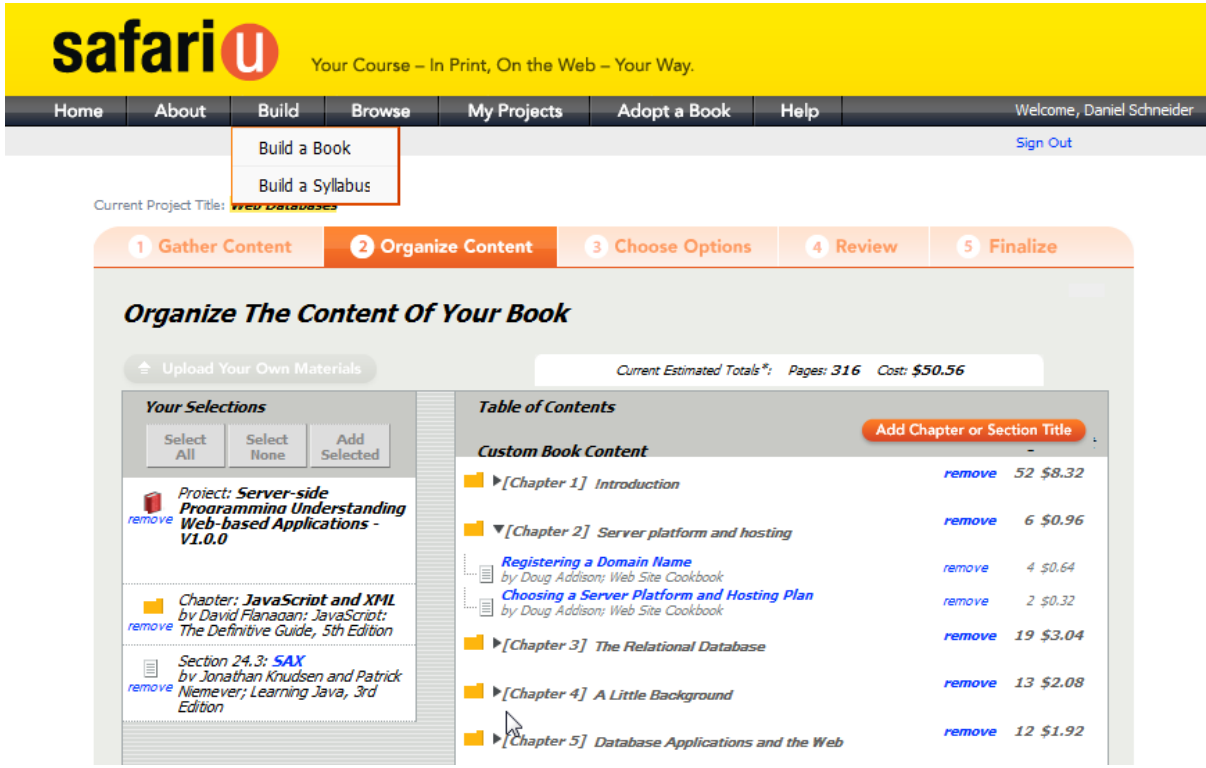
5. Documents



# Other contenders

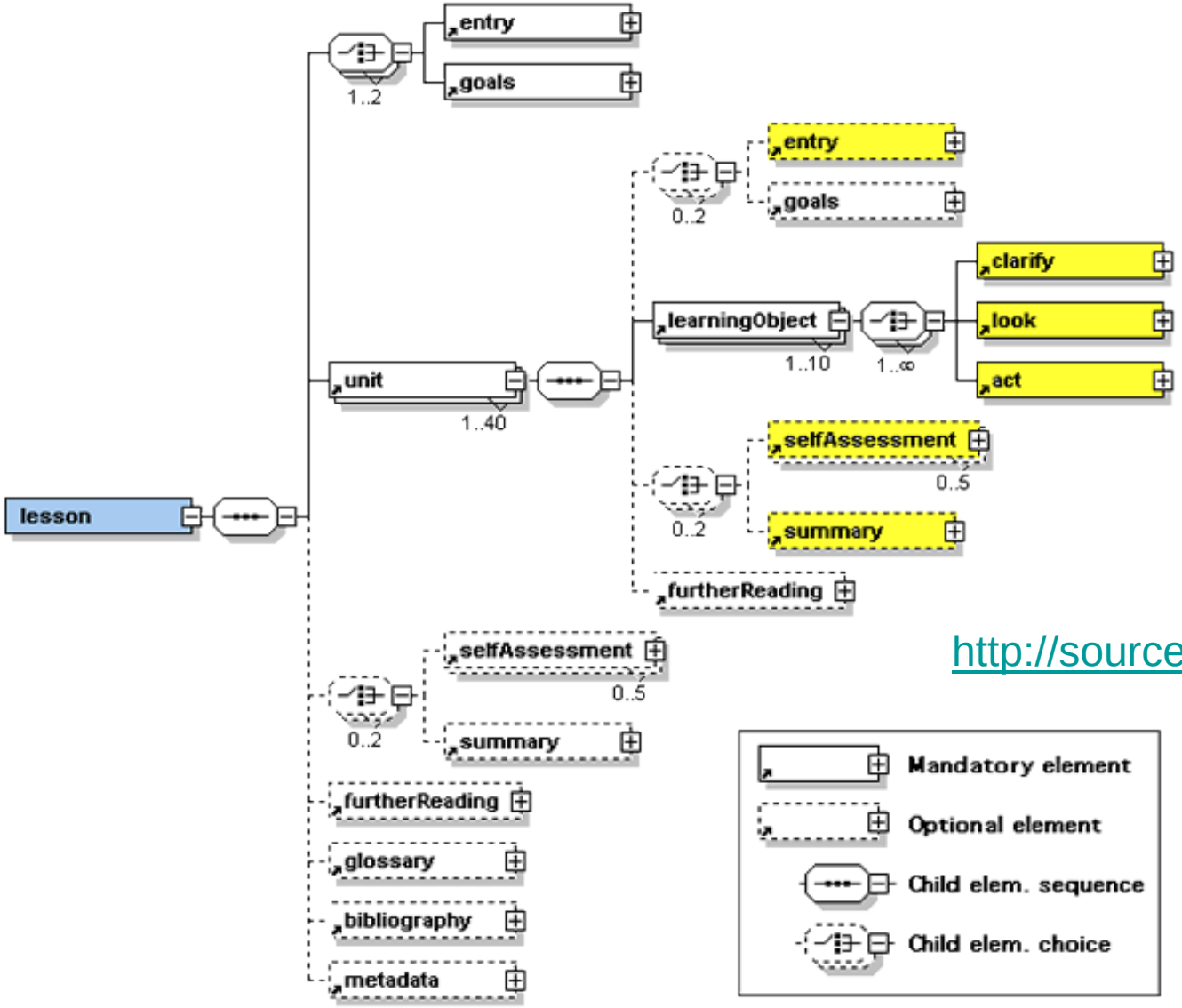
5.1 Documents

- XML Formats
  - DITA (IBM)
  - Docbook (O'Reilly)
  - XHtml2 modules
- Weak Formats
  - Wikis
  - LateX
- Bad Formats
  - Scorm 1.2
  - Word
- Services
  - E.g. safariU
  - Mediawikis (+ OO)



# Example: eLML

5.2 Documents

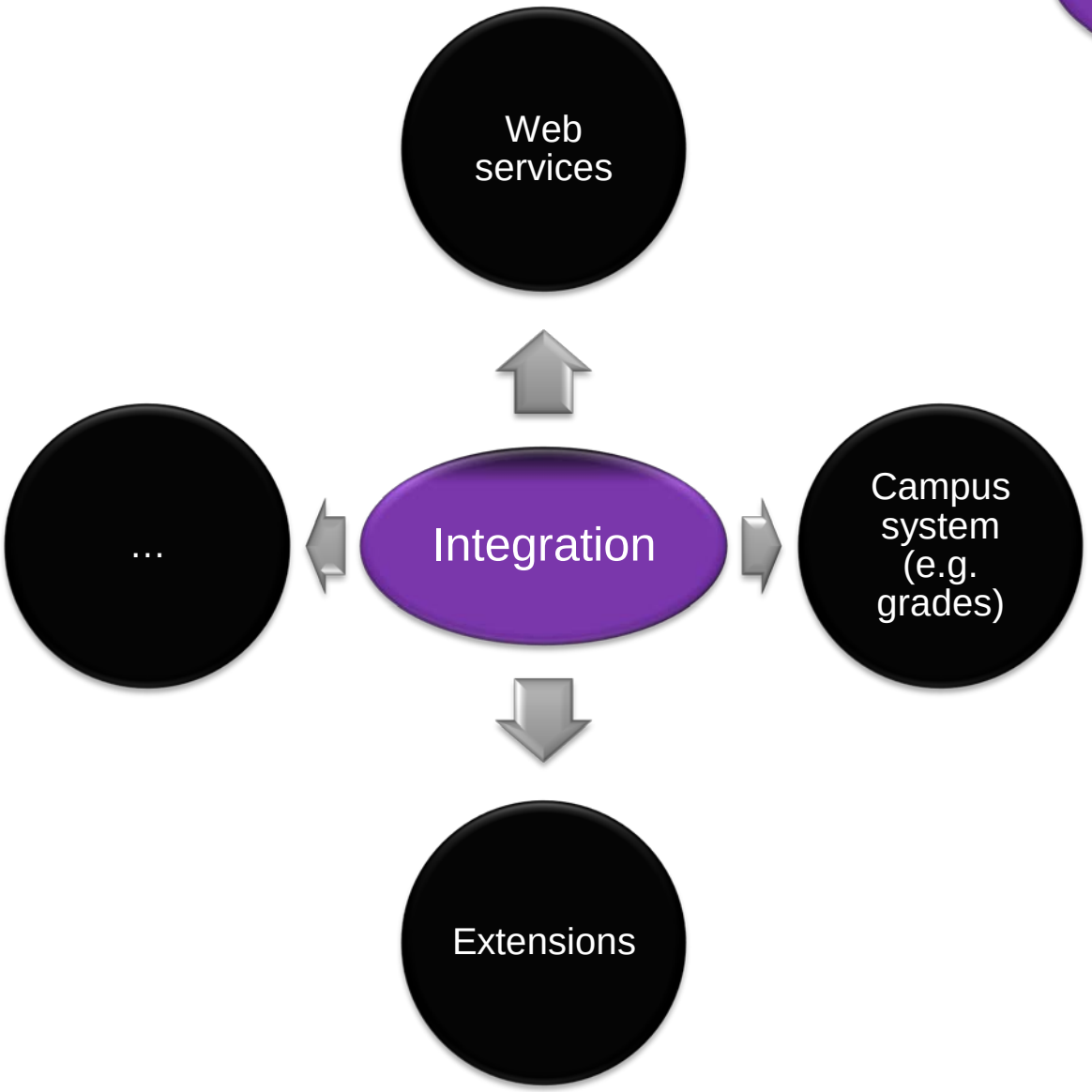



http://www.elml.ch/

http://sourceforge.net/projects/elml/

# Integration

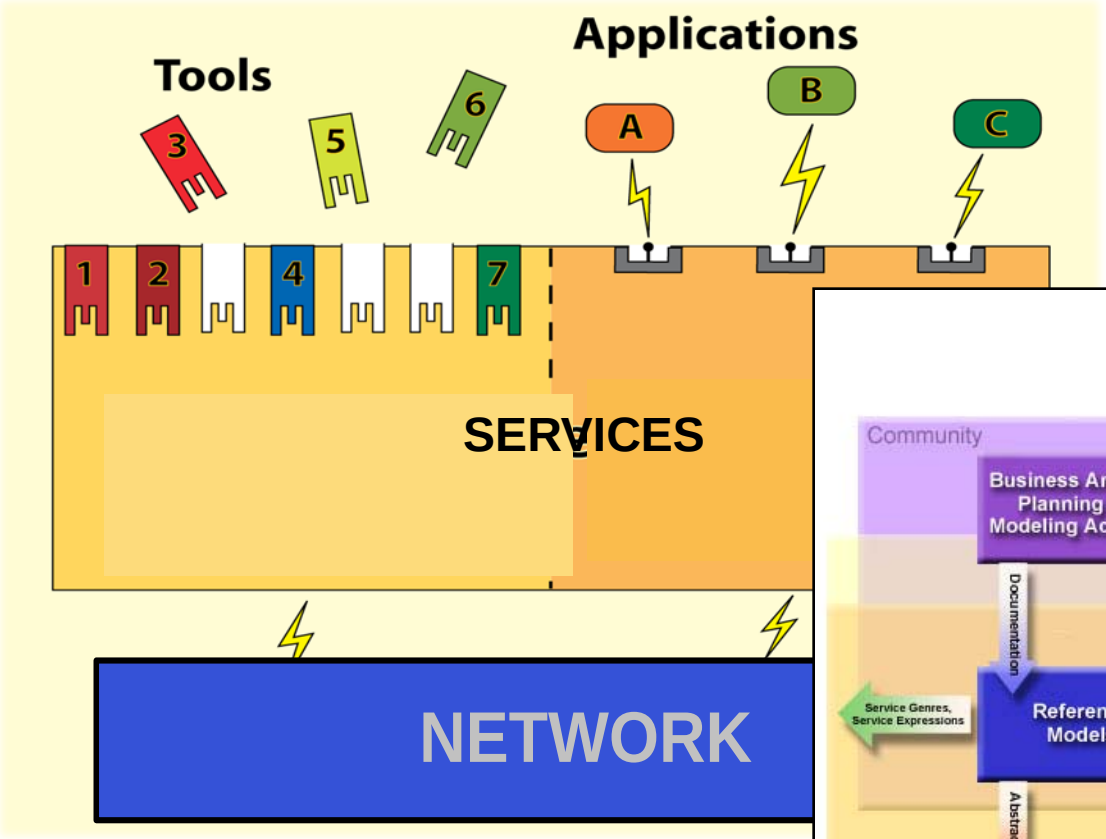
6.
Integration



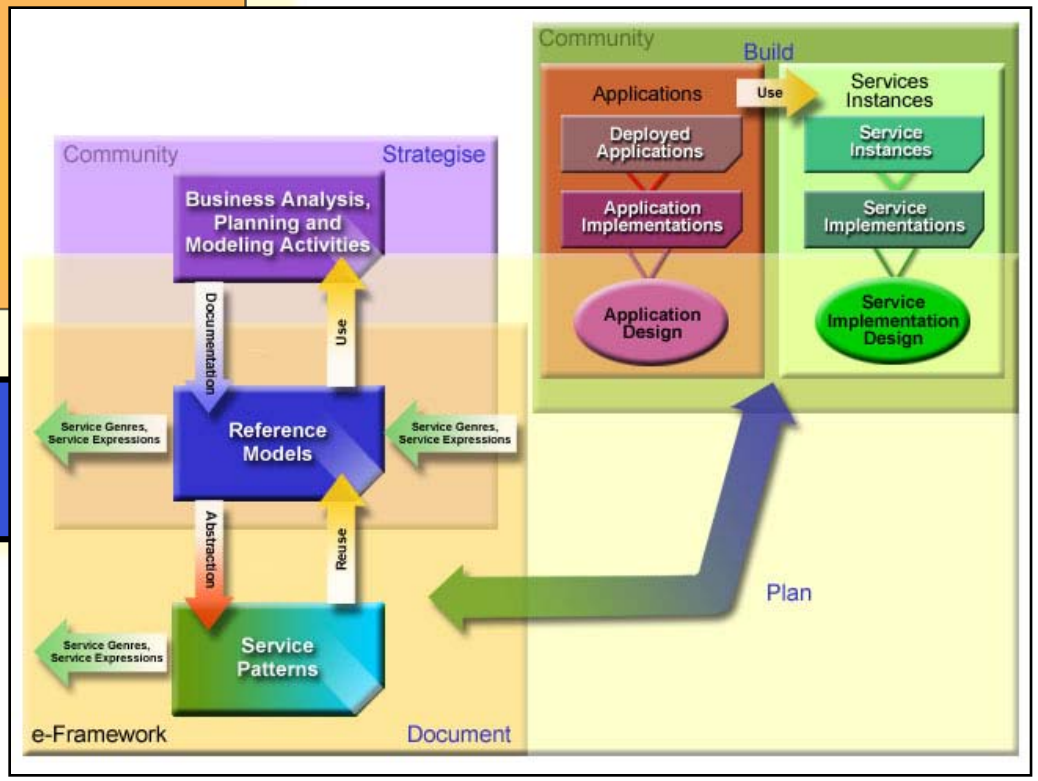
# SOA – example: e-framework

http://www.e-framework.org/

6. Integration




Combine services to meet educational needs.
No portal modules !




CORE Service Usage Models

# Example: Integration with “campus stuff”

6. Integration

- Some other services that we use:
  - Libraries
  - Calendars
  - Events
  - Course descriptions
  - Publications
  - Dept. and individual web sites
  - …..
- Student management (how could we integrate these ?)
  - Sign-up for classes
  - Grading tool and Gradebook
  - Final grade management
  - Registration

# The challenges I (a shortlist for the ambitious)

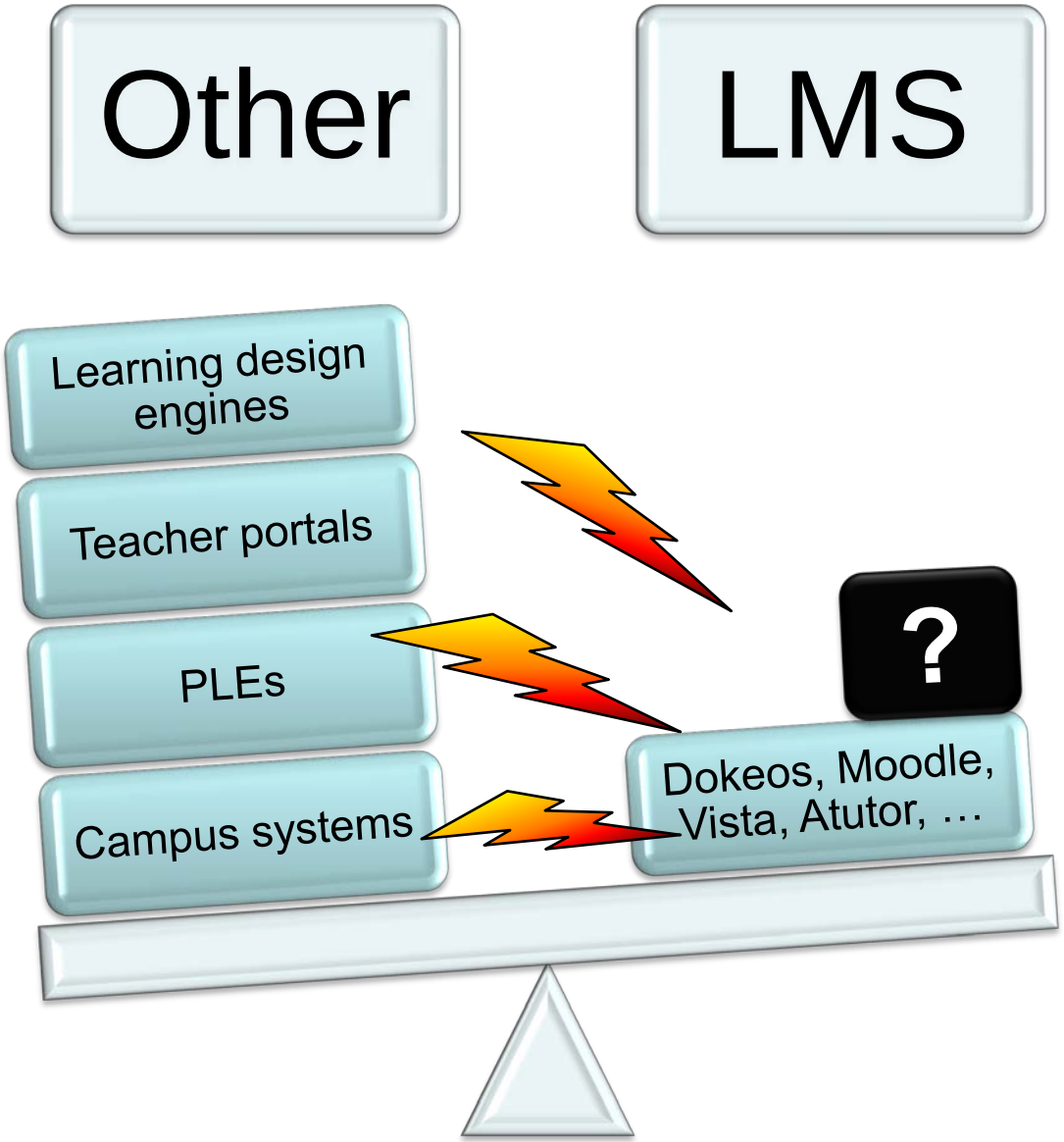
- **Pedagogy**
  - Learning I / II scenarios
  - Project-oriented learning
  - …
- **Scenario design**
  - IMS LD
  - IMS SS
  - CSCL Scripts
  - …
- **Teacher**
  - Manage ideas and refs.
  - Write documents
  - Manage documents and other artifacts
  - Teach (management & grading)
  - ….
- **Student**
  - Global “my” tool
- **The document**
  - Single source modular technology
  - Semantic markup
  - …..
- **Integration**
  - Expose services
  - Interface with services
  - Stable module API
  - …

# The challenges II (what do normal teachers use ?)

Do we really need an LMS just for that ?

| | |
|---|---|
| Exercise engine | • Assignment manager<br>• Grading tool<br>• Grade book |
| Support | • Forums<br>• (instant messaging) |
| Document repository | • Word<br>• PDF<br>• PPT |

# Conclusion


Other
LMS
Learning design engines
Teacher portals
PLEs
Campus systems
?
Dokeos, Moodle, Vista, Atutor, …

# Follow-up links

http://edutechwiki.unige.ch/en/Help:Dokeosdays2008
(includes download of these slides)

# Homework ☺

http://edutechwiki.unige.ch/en/Dokeos (almost empty entry for Dokeos)
http://edutechwiki.unige.ch/fr/Dokeos (entry that needs to be completed)