

# First

Congress of Information  
and Communication  
Technology Managers

**barcelona**

7th, 8th and 9th of April



\* International Association of Lasallian Universities  
\* Asociación Internacional de Universidades Lasallistas  
\* Association Internationale des Universités Lasaliennes

Sponsored by



Organized by



# First

Congress of Information  
and Communication  
Technology Managers

**barcelona**

7th, 8th and 9th of April



\* International Association of Lasallian Universities  
\* Asociación Internacional de Universidades Lasallistas  
\* Association Internationale des Universités Lasaliennes

## Open Source Learning Management Systems: Much More Than Free Source Code

Dr. Charles Severance

Clinical Assistant Professor - University of Michigan

Developer Network Coordinator - IMS Global Learning Consortium

Sponsored by



Organized by





Innovation  
Adoption  
Learning

► MORE INFORMATION

About IMS  
Background  
Collaborations  
► Staff  
Board of Directors  
Press Releases  
Press Kit

► SEARCH

Search

SEARCH ►

► QUICK LINKS

- [Join the IMS/GLC Community](#)
- [Download Specifications](#)
- [Specification Problem and Suggestion Reporting](#)
- [Join IMS/GLC](#)
- [Contact Us](#)

SPECIFICATIONS

ACTIVITIES

LEARNING IMPACT

ABOUT IMS/GLC

## IMS Global Learning Consortium

MEMBER WEBSITE ►

### Charles Severance

Developer Network Coordinator  
Email: [Email](#)

Biography

#### Dr. Charles R. Severance

Charles is currently the IMS GLC Developers Network Coordinator and Clinical Assistant Professor in the School of Information at the University of Michigan. Previously he was the Executive Director of the Sakai Foundation and the Chief Architect of the Sakai Project.



Charles is the Author of the book High Performance Computing, Second Edition, published by O'Reilly and Associates. Charles has a background in standards including serving as the vice-chair for the IEEE Posix P1003 standards effort and edited the Standards Column in IEEE Computer Magazine from 1995-1999.

Charles has taught Computer Science courses at the University of Michigan and Michigan State University.

Charles has developed several tools to assist in the production of multimedia web-based lectures. The tools are called the Sync-O-Matic 3000 and ClipBoard-2000.

Charles is active in television and radio as a hobby, he has co-hosted several television shows including "Nothin but Net" produced by MediaOne and a nationally televised program called Internet:TCI. Charles appeared for over 10 years as an expert on Internet and Technology on a call-in radio program on the local Public Radio affiliate ([www.wkar.org](#)).

Chuck's hobbies include off-road motorcycle riding, karaoke and playing hockey.

Charles has a B.S., M.S., and Phd. in Computer Science from Michigan State University.



Sponsored by



Organized by



# Outline

Looking back at looking forward (2004)

More than just free source code

Student-Centered Learning

What will the “next” LMS look like?

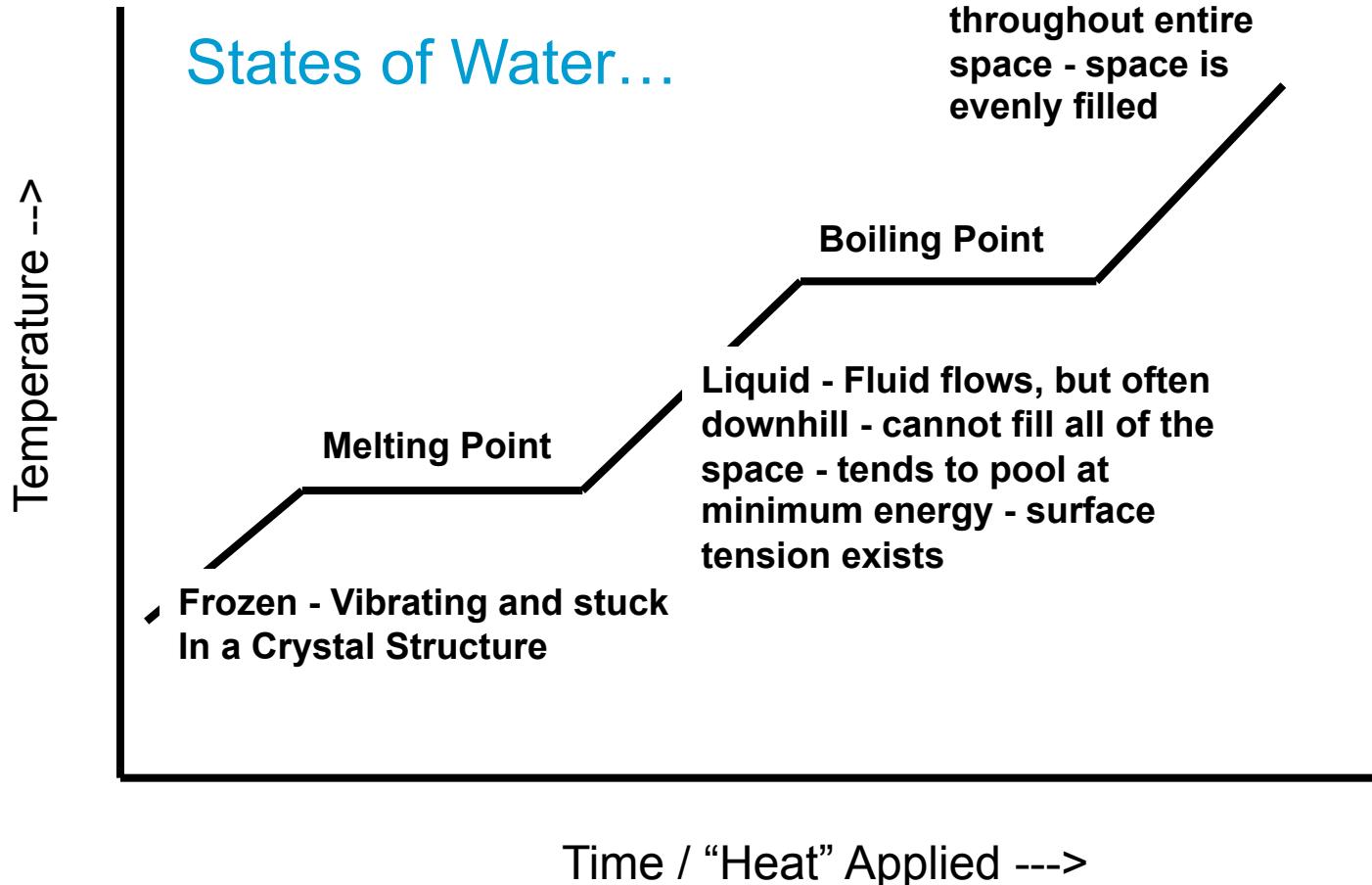
Resource Mashup - IMS Tool Interoperability

Google Summer of Code

Campus Project

User Centered Sakai - MyCamTools

## States of Water...



Dec-2004

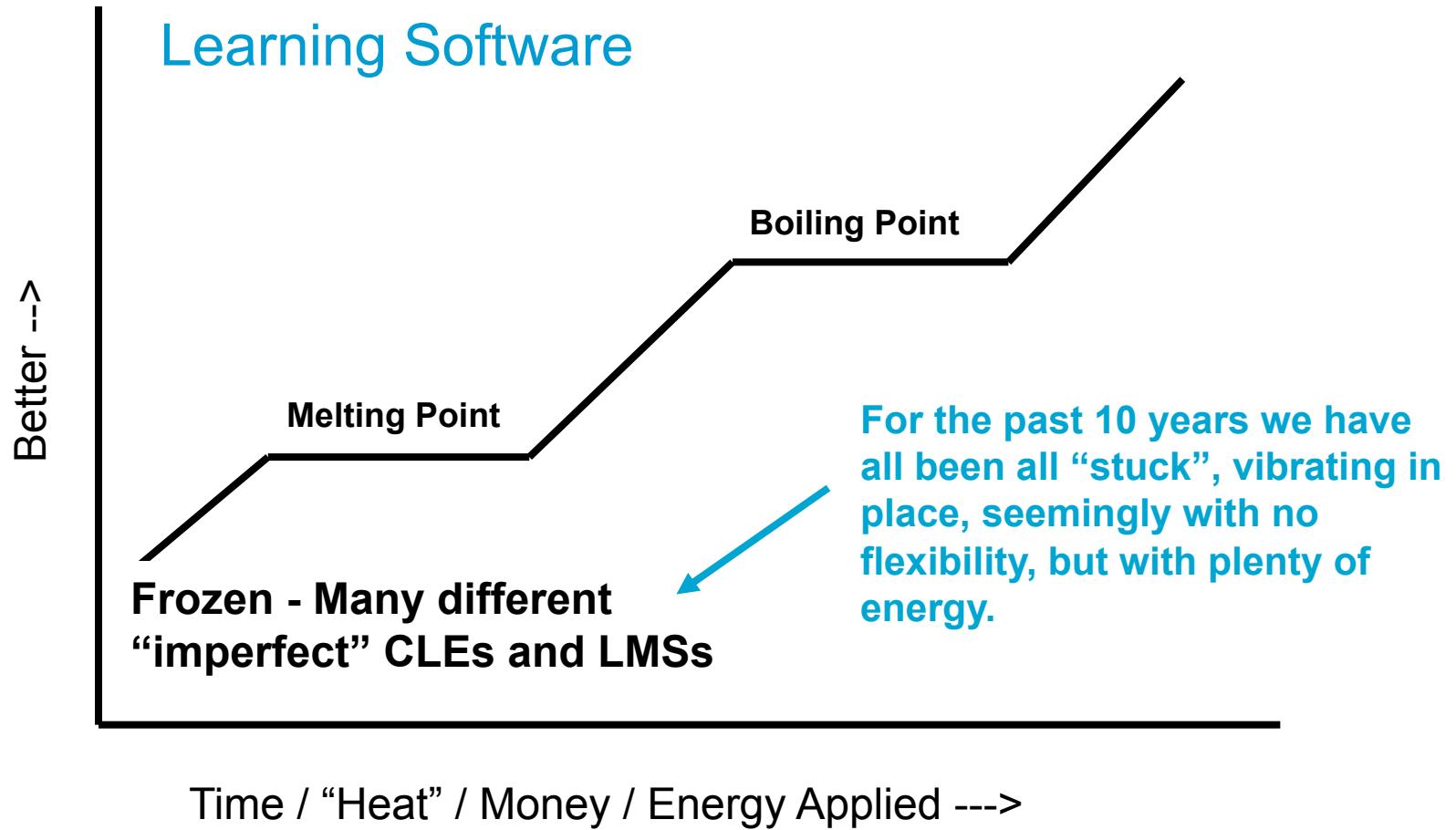
Sponsored by



Organized by



## Latent Heat of Learning Software



Dec-2004

Sponsored by

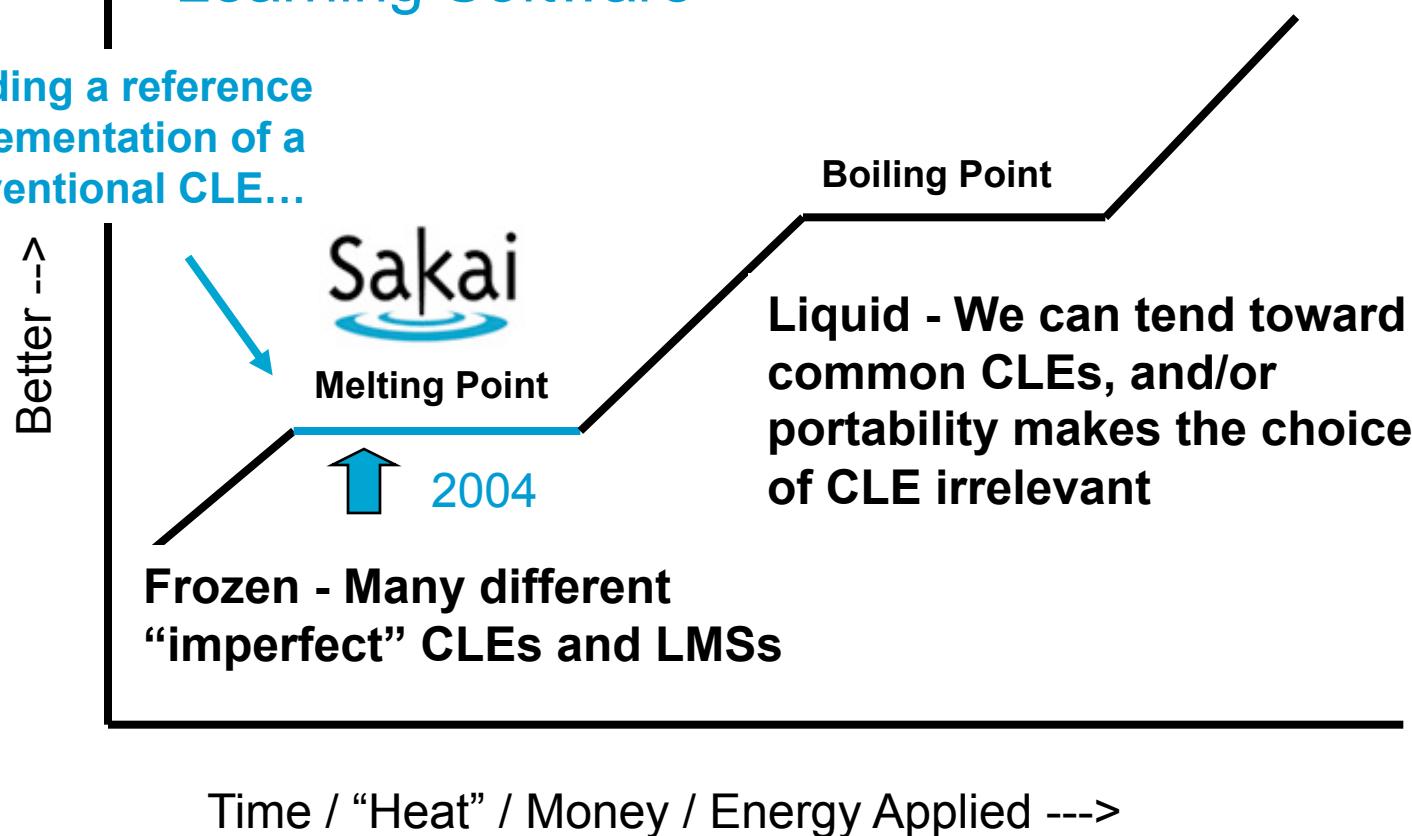


Organized by



## Latent Heat of Learning Software

Building a reference  
implementation of a  
conventional CLE...



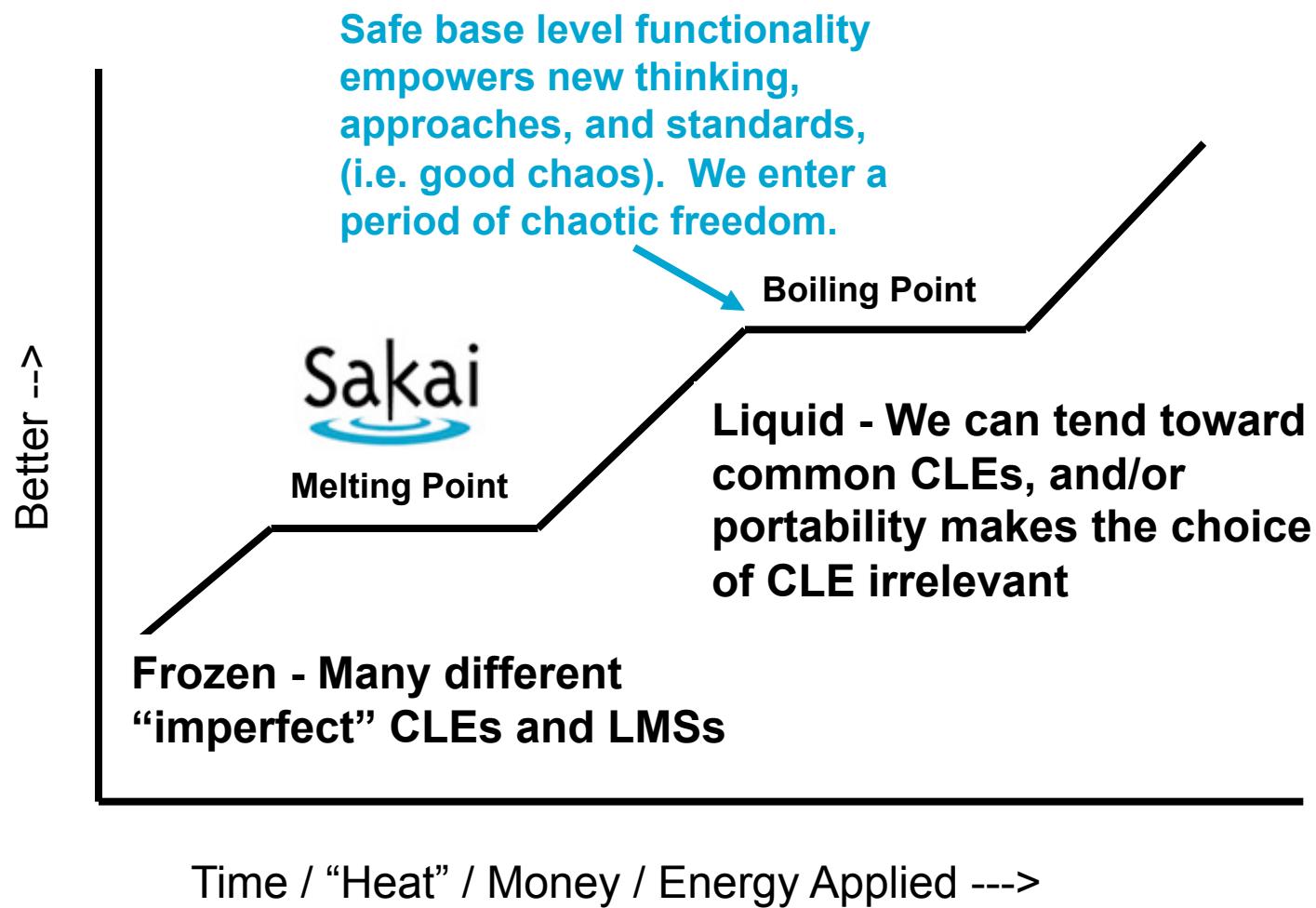
Dec-2004

Sponsored by



Organized by





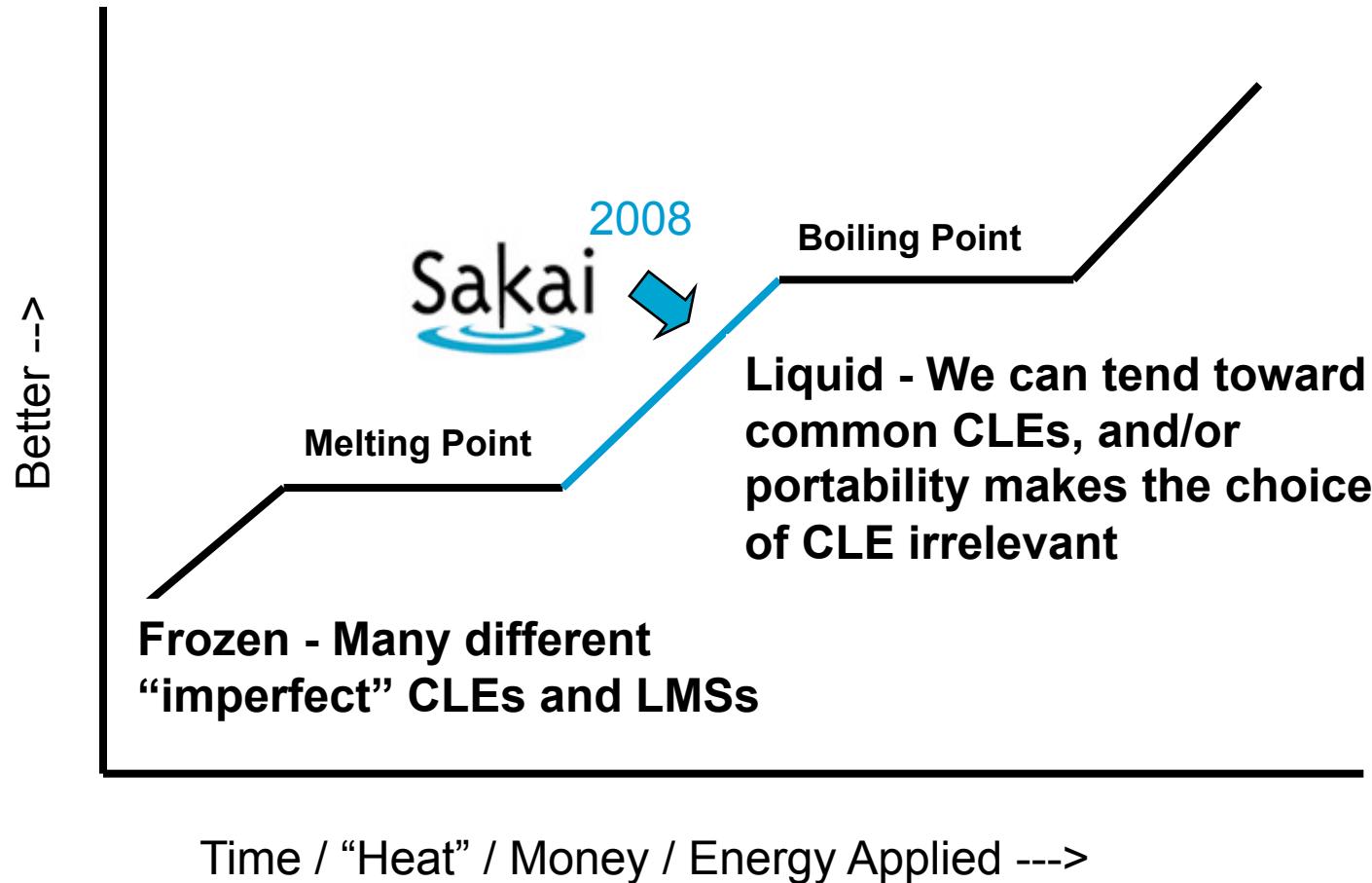
Dec-2004

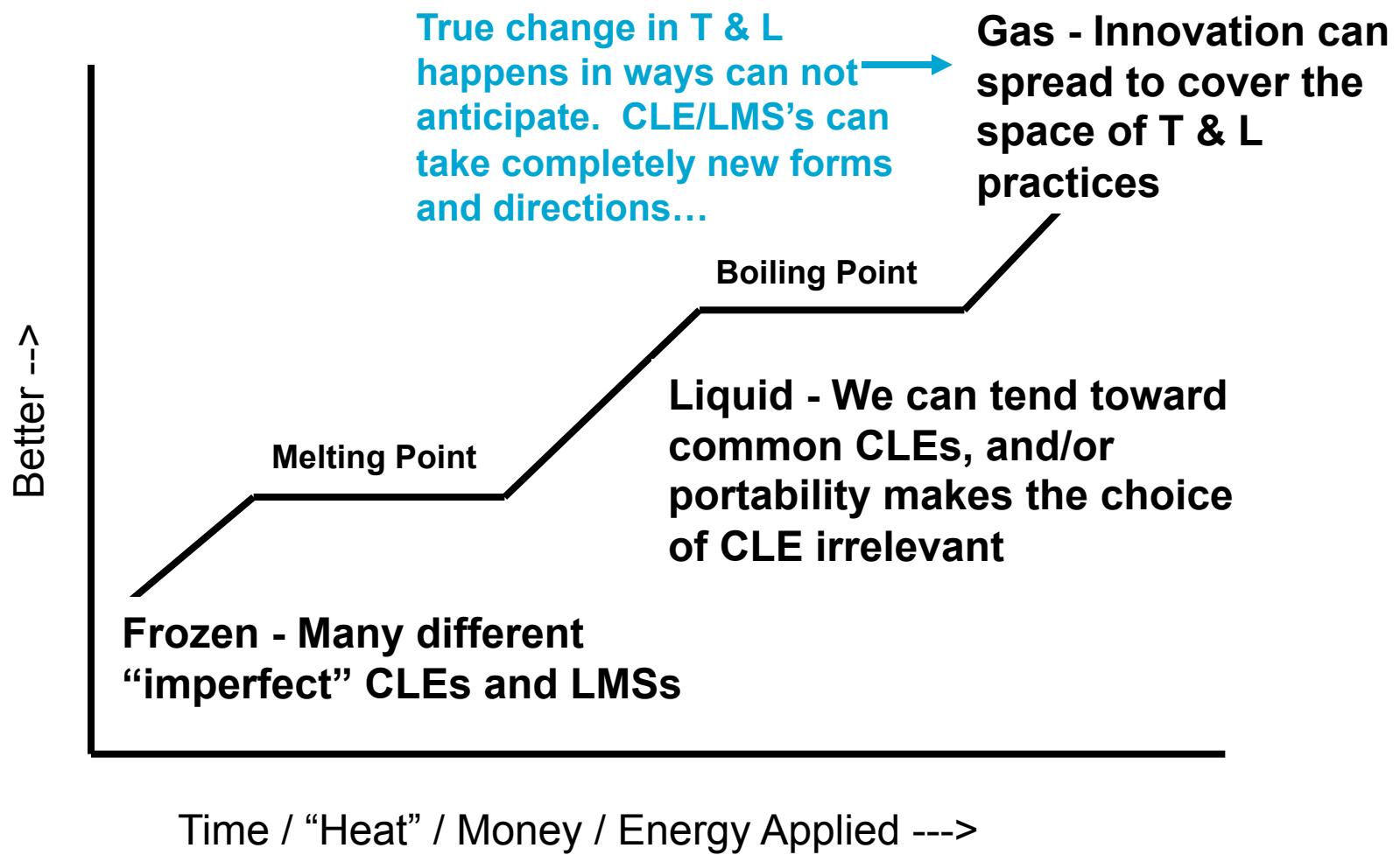
Sponsored by



Organized by







Dec-2004

Sponsored by



Organized by



# First

Congress of Information  
and Communication  
Technology Managers  
**barcelona**  
7th, 8th and 9th of April

IALU  
AIUL

\* International Association of Lasallian Universities  
\* Asociación Internacional de Universidades Lasallistas  
\* Association Internationale des Universités Lasaliennes

# More Than Free Source Code

Open Source leads to Open Thinking  
and Open Innovation

Sponsored by



Organized by



# First

Congress of Information  
and Communication  
Technology Managers  
**barcelona**  
7th, 8th and 9th of April

IALU  
AIUL

\* International Association of Lasalian Universities  
\* Asociación Internacional de Universidades Lasallistas  
\* Association Internationale des Universités Lasaliennes

# Open Everything

Open Source

Open Intellectual Property

Open Thinking

Open Ideas

Open Innovation

Sponsored by



Organized by



# First

Congress of Information  
and Communication  
Technology Managers  
**barcelona**  
7th, 8th and 9th of April

IALU  
AIUL

\* International Association of Lasallian Universities  
\* Asociación Internacional de Universidades Lasallistas  
\* Association Internationale des Universités Lasaliennes

## Open Michigan Screen Prototype Screen shot removed

Sponsored by



Organized by



## Moodle .versus. Sakai

Many schools compare and choose  
Neither wins all the time

Everyone realizes their weaknesses  
Everyone gets stronger



## Ideas Flow...

Moodle adds flexible role system (Sakai)

Sakai is designing flexible course setup and layout (add Resource) (Moodle)

Moodle is building Learning Management System (LAMS) Sakai wants this too..

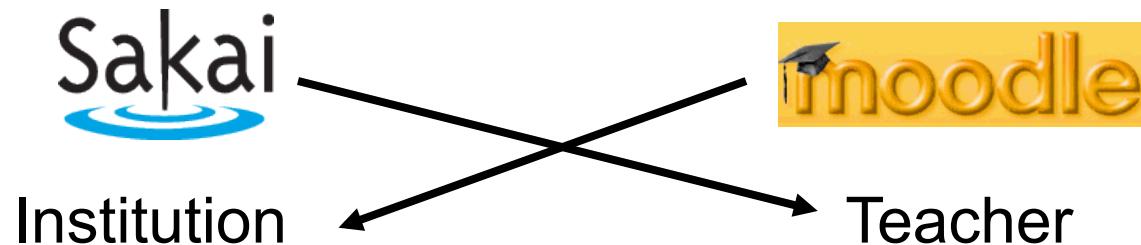
Moodle is adding web service APIs (Sakai)...

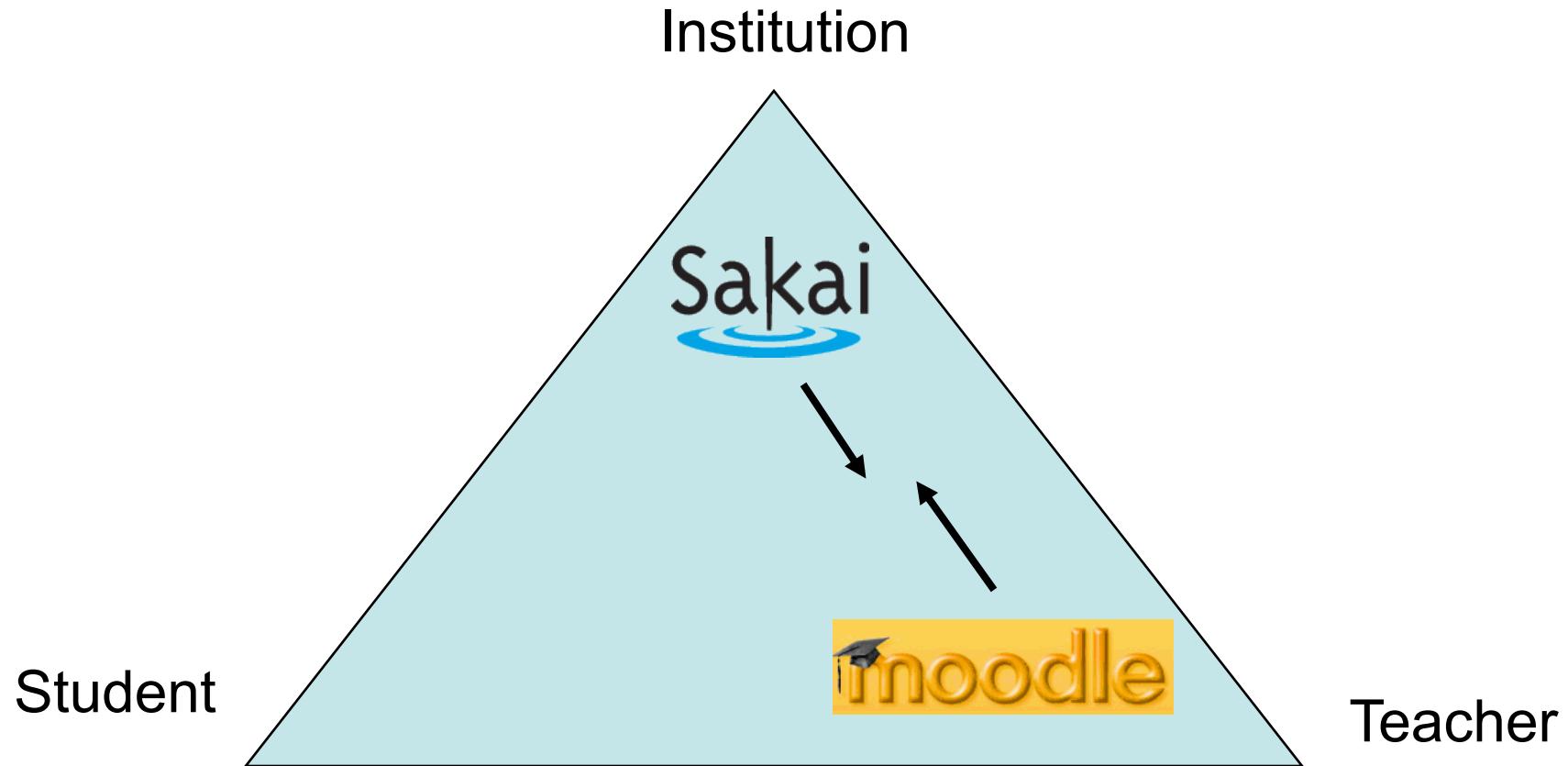
Everyone is glad to see teaching and learning improving

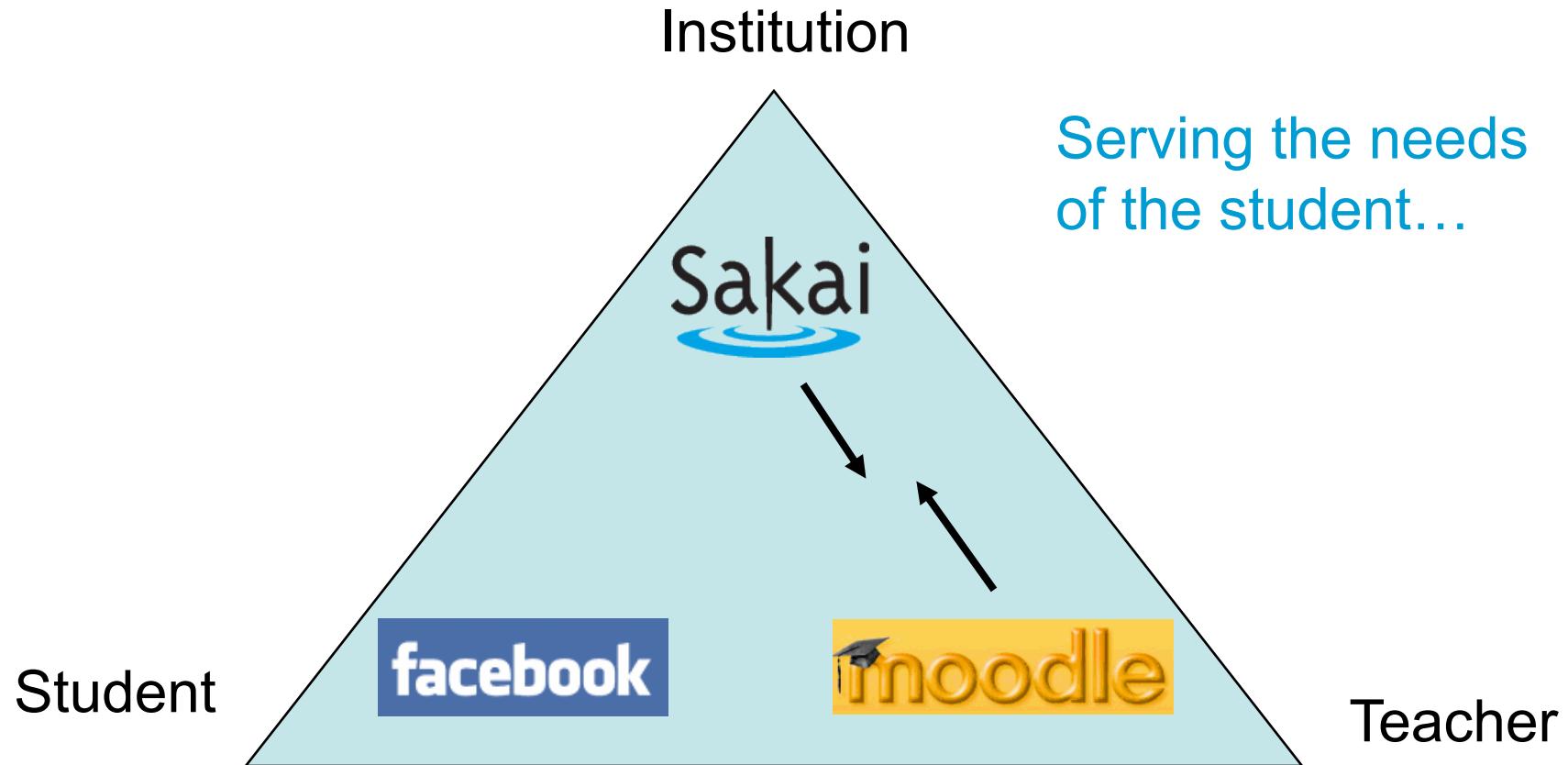
## Addressing Weaknesses

Moodle is working on increasing its appeal to  
enterprise institutions

Sakai is working on building interfaces that  
teachers will love







Facebook is part of a student's life. Students **\*choose\*** to use Facebook.

Institution

Sakai and Moodle are something students **\*must\*** use for a grade.

Student

Sakai

Teacher

moodle

facebook

# Student Centered Learning

What can we learn from Facebook?  
How are leading thinkers approaching  
teaching?

Sponsored by



Organized by



## University of Michigan Medical School

In 2007, they put out a Request for Information (RFI) for a student centered learning system.

They had a very clear vision of what they wanted

Nothing in the marketplace even came close to their requirements



Sponsored by



Organized by



## Learning Management System: Medical School Proposal

Student-centered

Based on framework for self-regulated learning

3 distinct but interactive levels

Institutional

Personal

Portfolio

Casey B. White, Ph.D.

Joseph C. Fantone, M.D.

March 2008



Sponsored by

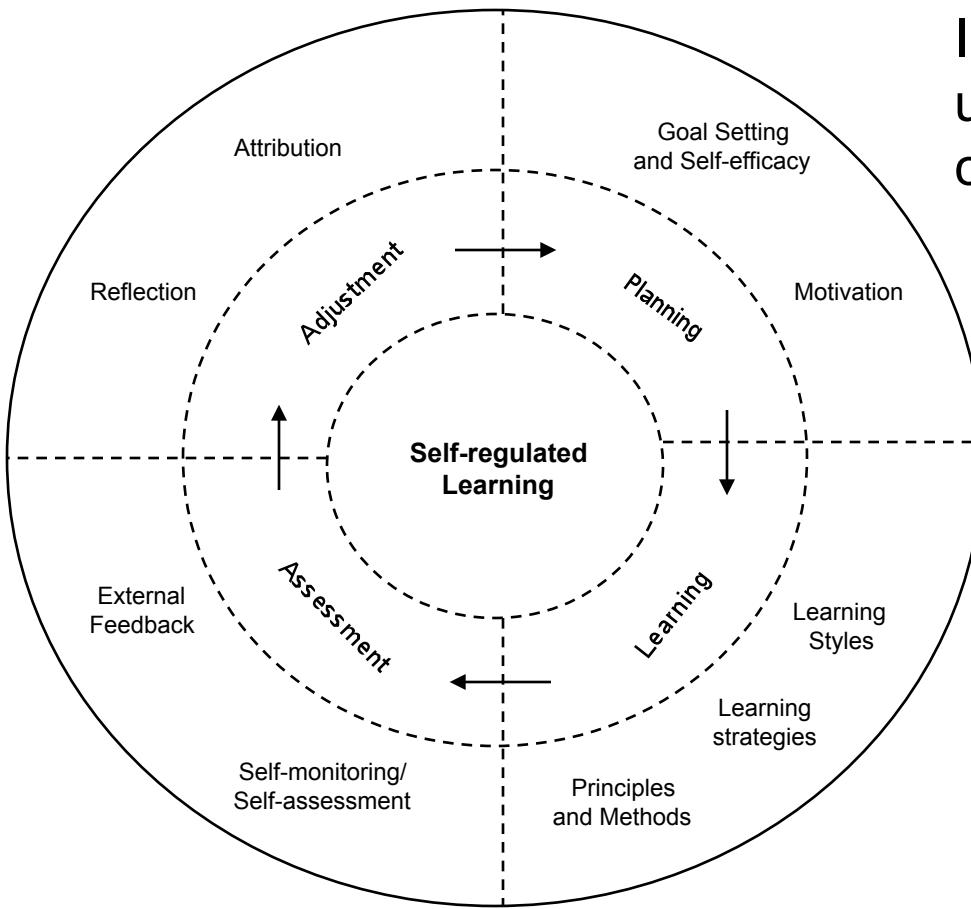


Organized by



# A Model for Self-regulated Learning\*

Outer ring is the institution's learning cycle.



Inner ring is the users's learning cycle.

- White CB, Gruppen LD. 2007. Self-regulated Learning in Medical Education. Association for the Study of Medical Education: Understanding Medical Education.

## Self-regulated Learning

4-phase cycle

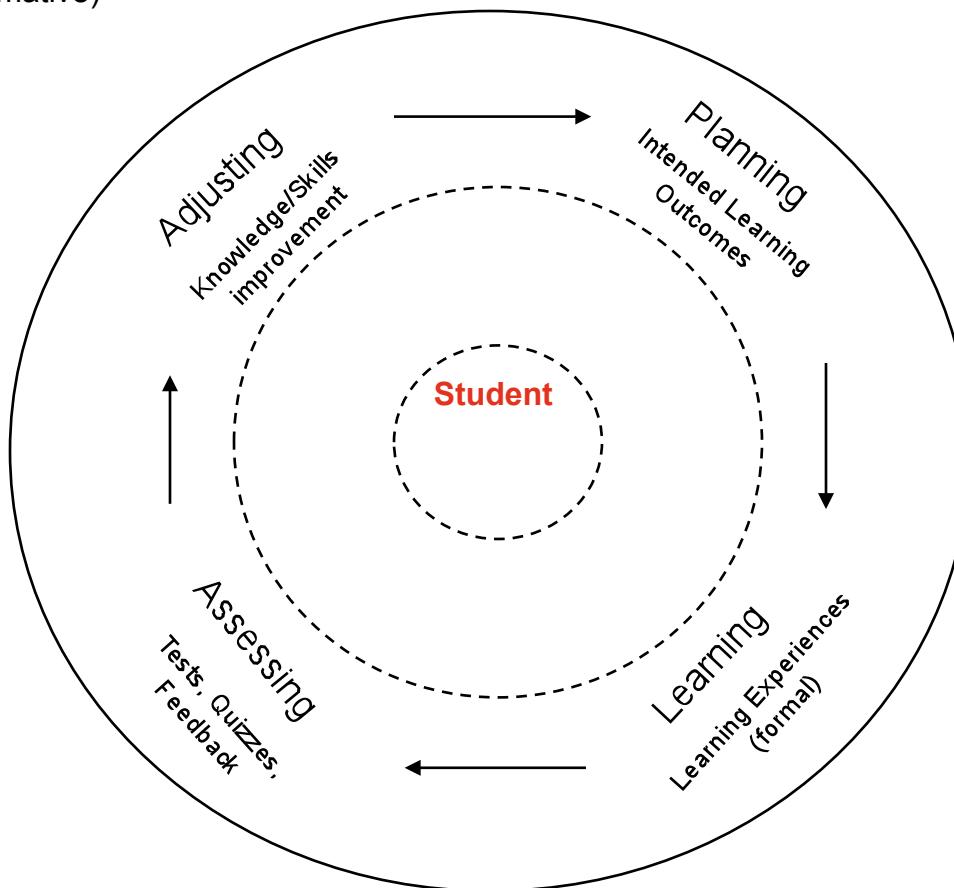
Continuous (formative/summative)

Feedback = key

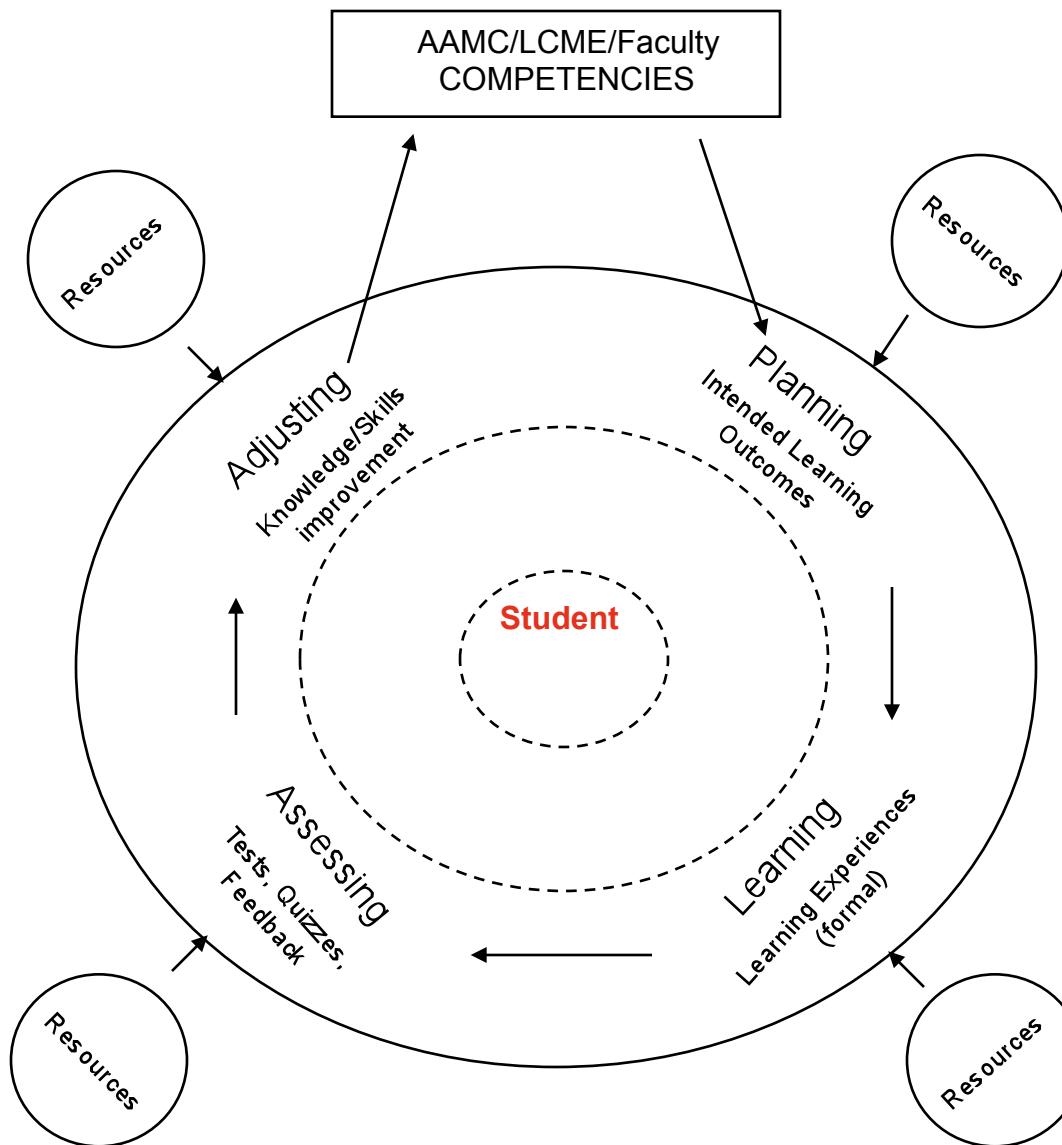
Student responsibility &

Accountability

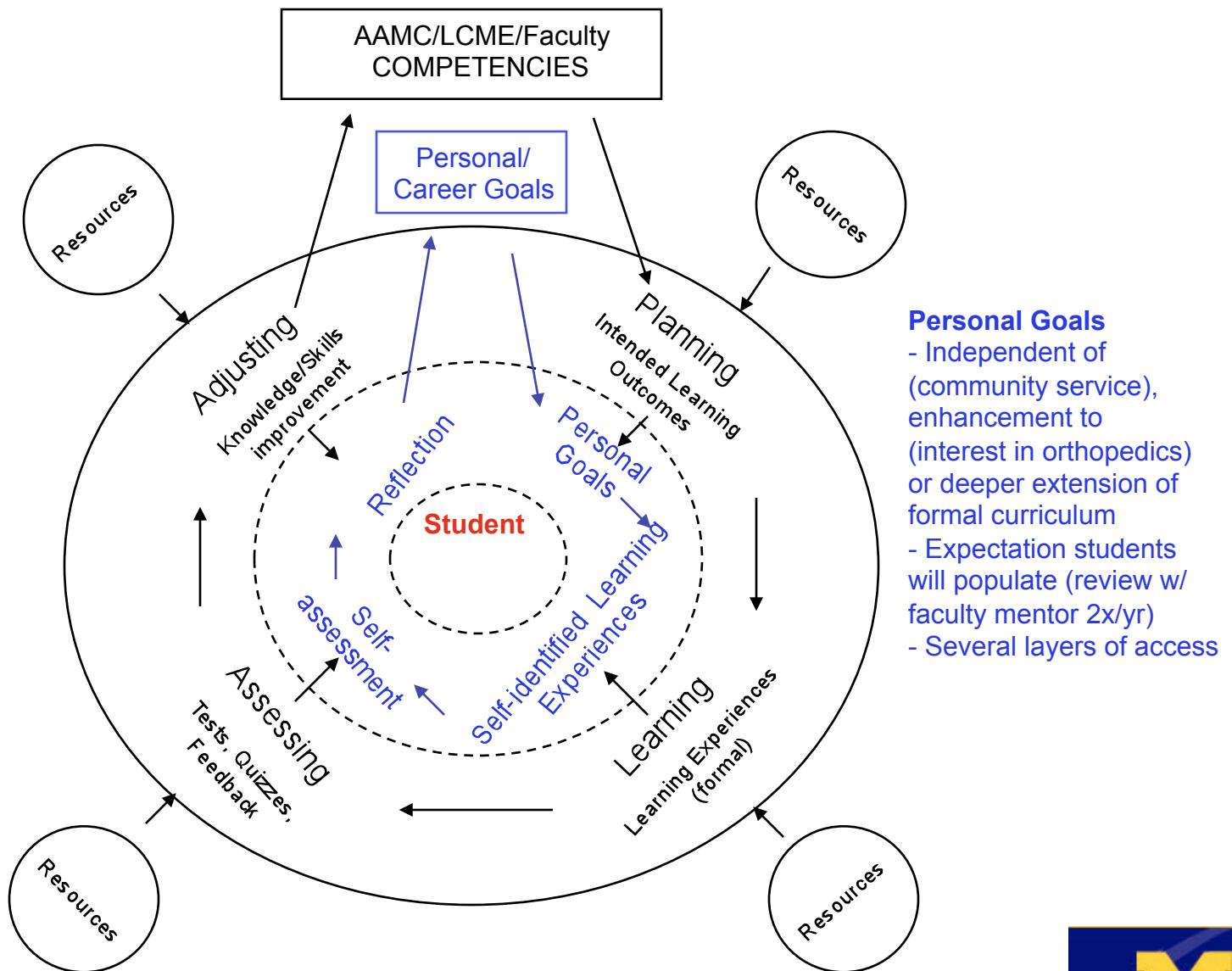
Lifelong learning



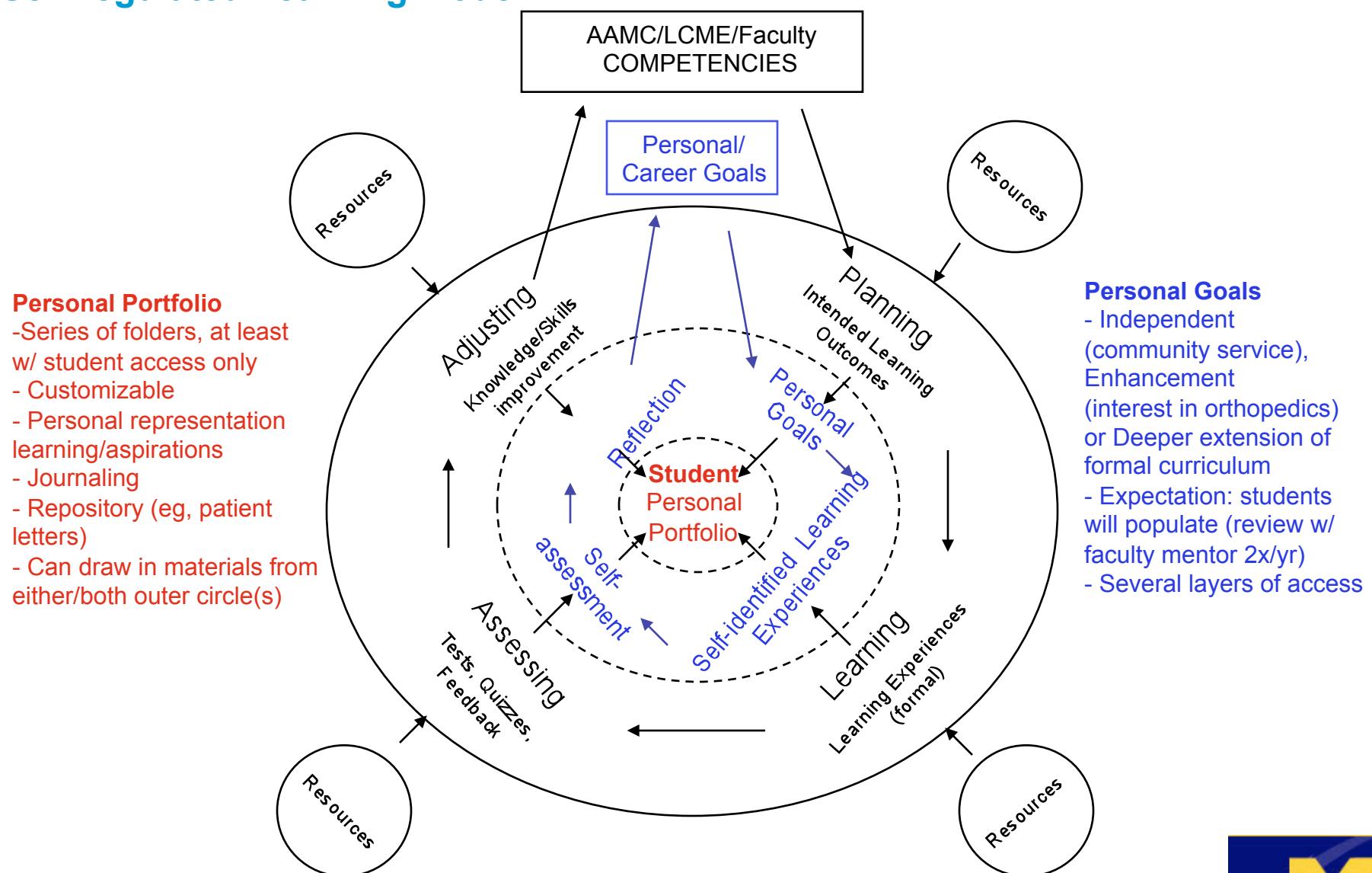
## Responding to the need for tracking of competencies defined by others.



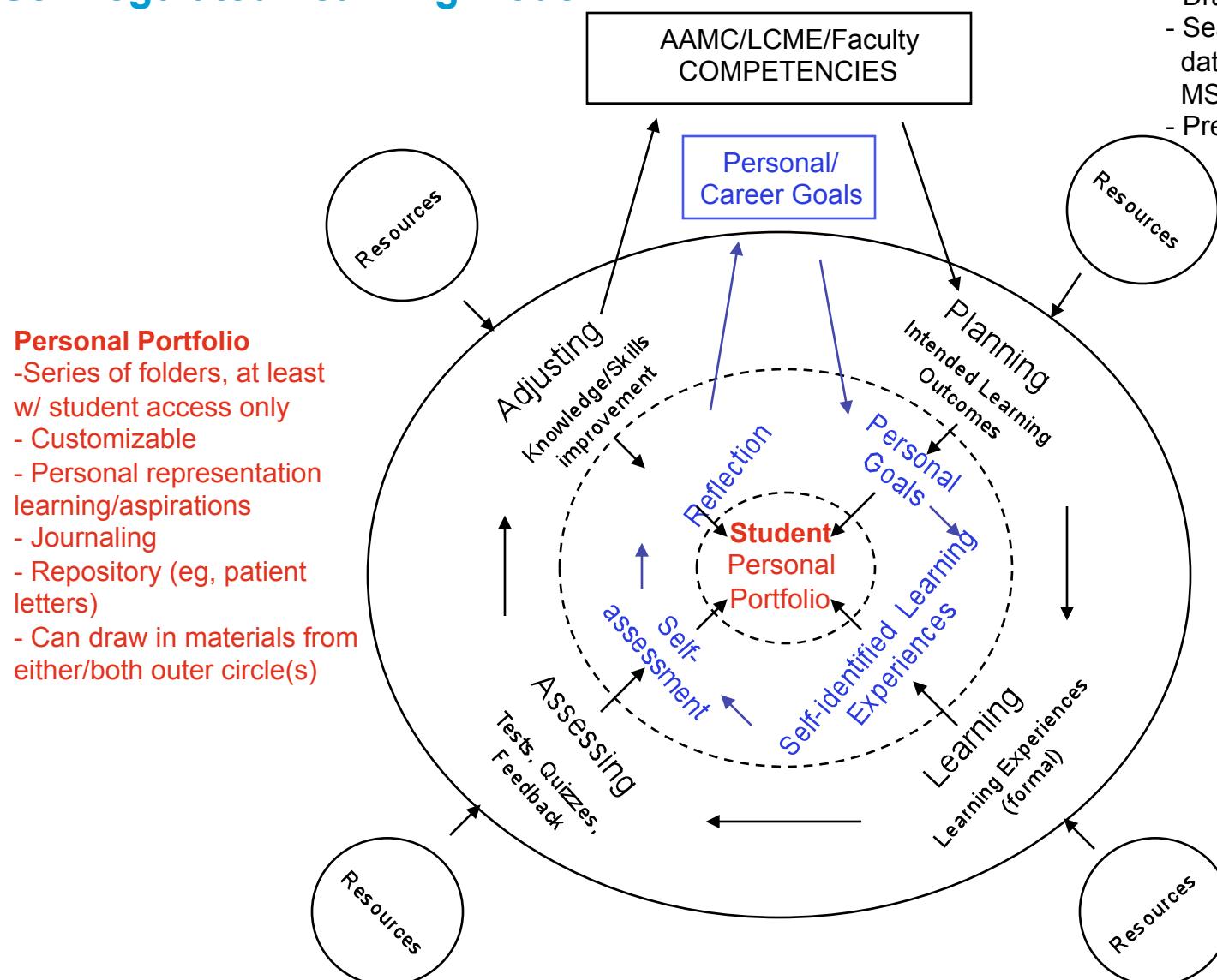
## The student process operates within the institutional process under the student's control



# Learning Management System: Self-regulated Learning Model



# Learning Management System: Self-regulated Learning Model



## Characteristics across levels

- Search engine
- Drag and drop
- Seamless access to web and databases (Sakai, Portal, MSIS/Oracle, PubMed, etc.)
- Presentation functionality

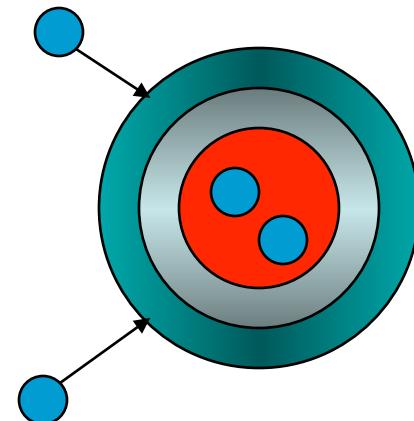
## Personal Goals

- Independent (community service), Enhancement (interest in orthopedics) or Deeper extension of formal curriculum
- Expectation: students will populate (review w/ faculty mentor 2x/yr)
- Several layers of access

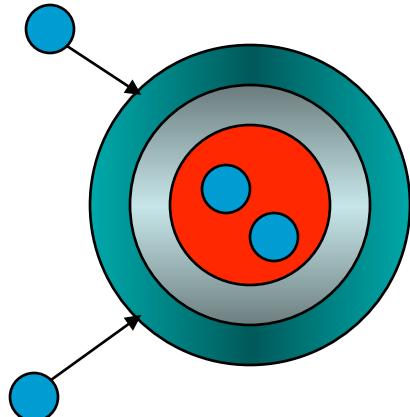
## The Social Dimension

These pictures focus on  
the view from the  
institution into the  
individual

The processes and flows  
are around and toward  
the student at the center



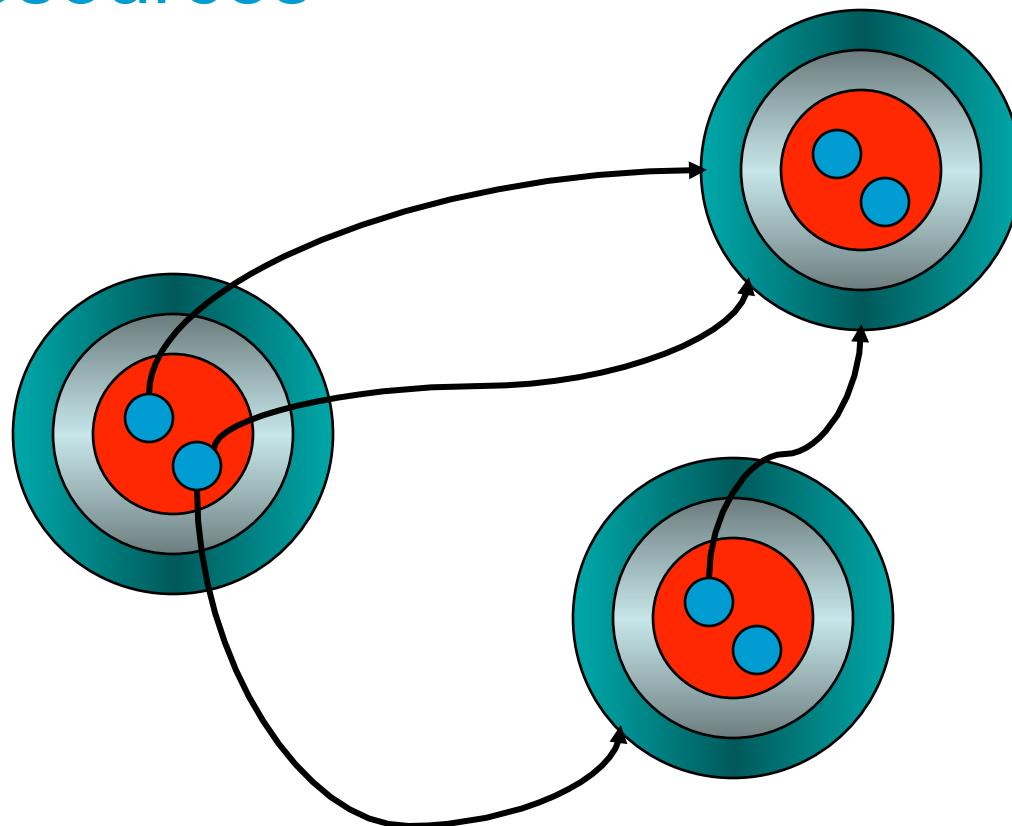
What are we doing with the resources?



What are we putting in our portfolio?

Do those things just sit there forever?

The “learning turbines” are  
producing new resources  
all the time.



These can be people or even  
groups - constantly making,  
consuming, and enhancing  
resources.

# First

Congress of Information  
and Communication  
Technology Managers  
**barcelona**  
7th, 8th and 9th of April



\* International Association of Lasallian Universities  
\* Asociación Internacional de Universidades Lasallistas  
\* Association Internationale des Universités Lasaliennes

# What will the Student Centered Learning System look like?

Sponsored by



Organized by



## Michigan Medical School

The desired software cannot be purchased or downloaded. Period. Nothing comes close.

Lets just write it. Lets build/adopt/extend a student centered learning environment.

This is not a new feature in an LMS - this must be for the student. It must compete with Facebook.



Sponsored by



Organized by



## First: Survey The Market to Learn from others

Not happy with classic LMS software like Sakai and Moodle

Look for personal portfolio systems and content management systems and Facebook

Start from the student perspective and work outwards...

## Things to Look At...

LAMS

Moodle Portfolio

Open Source Portfolio

Mahara

Chisimba

....

Elgg

Drupal

Plone

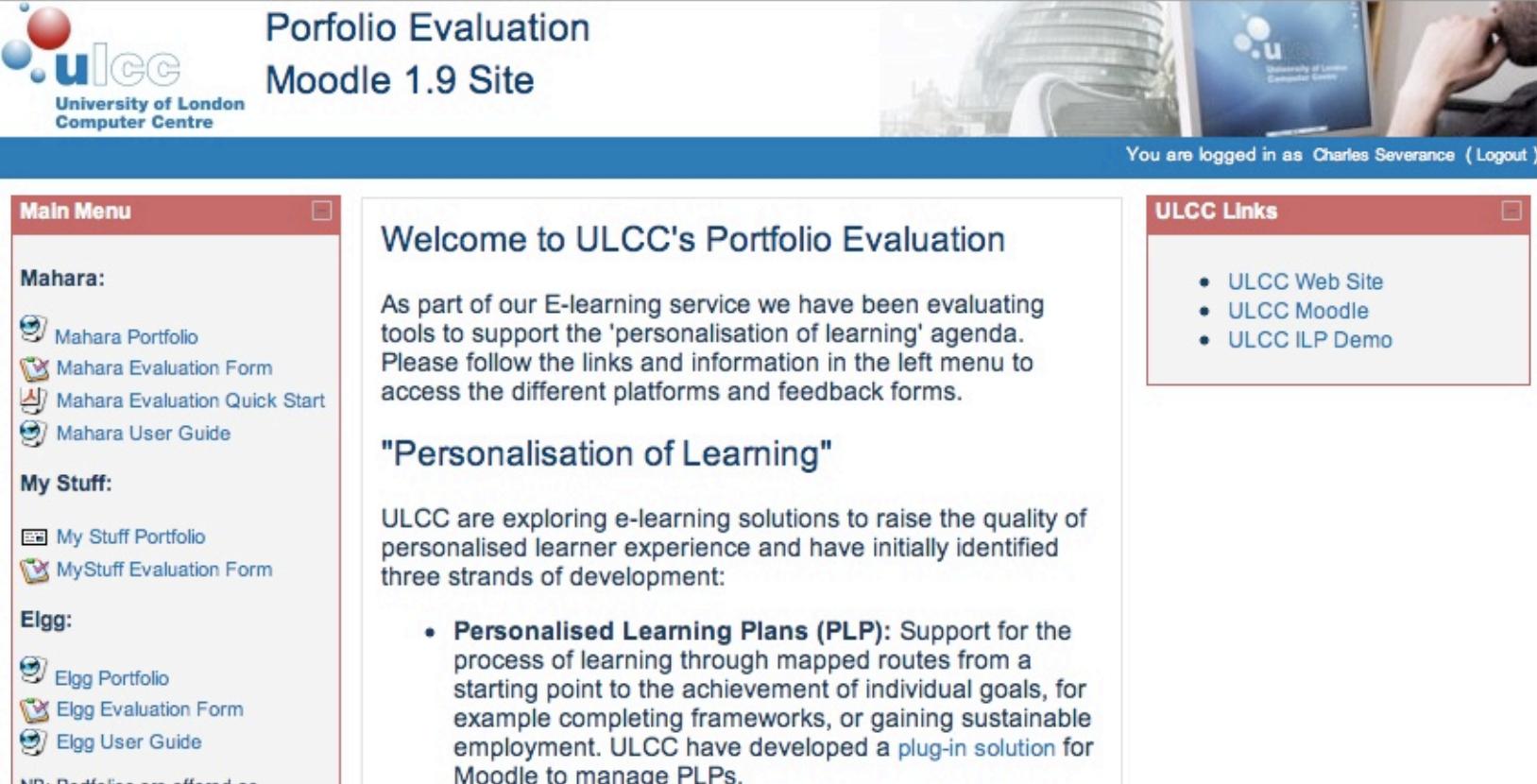
Joomla

Facebook

....

Always think “personal” not institutional. The institution has an interest - but the user interface must be personal fit institutional needs into a user-centered interface.

# portfolio.evaluation.ulcc.ac.uk



The screenshot shows the homepage of the ULCC Portfolio Evaluation Moodle 1.9 Site. The header features the ULCC logo and the title "Portfolio Evaluation Moodle 1.9 Site". A banner image of a person using a computer is visible. The main content area includes a "Main Menu" sidebar with links to Mahara, My Stuff, and Elgg platforms, along with a note about Moodle 1.9. The central column displays a welcome message about portfolio evaluation and personalisation, followed by a section on "Personalisation of Learning" and a list of PLP benefits. The right sidebar contains "ULCC Links" to the ULCC Web Site, Moodle, and ILP Demo.

**Main Menu**

- Mahara:**
  - Mahara Portfolio
  - Mahara Evaluation Form
  - Mahara Evaluation Quick Start
  - Mahara User Guide
- My Stuff:**
  - My Stuff Portfolio
  - MyStuff Evaluation Form
- Elgg:**
  - Elgg Portfolio
  - Elgg Evaluation Form
  - Elgg User Guide

Note: Moodle 1.9 is offered as

**Welcome to ULCC's Portfolio Evaluation**

As part of our E-learning service we have been evaluating tools to support the 'personalisation of learning' agenda. Please follow the links and information in the left menu to access the different platforms and feedback forms.

**"Personalisation of Learning"**

ULCC are exploring e-learning solutions to raise the quality of personalised learner experience and have initially identified three strands of development:

- **Personalised Learning Plans (PLP):** Support for the process of learning through mapped routes from a starting point to the achievement of individual goals, for example completing frameworks, or gaining sustainable employment. ULCC have developed a plug-in solution for Moodle to manage PLPs.

**ULCC Links**

- ULCC Web Site
- ULCC Moodle
- ULCC ILP Demo

Note: The following evaluation and conclusions were only based on about 30 minutes of playing with each of these applications. It is brainstorming and **nothing more**. That means that this is not very scientific and should absolutely **not** be used to guide institutional major investments or strategic directions.

But *at the same time*, how long will students tolerate learning a user interface that theoretically was built for them.

Take all of this with a grain of salt - its intent is to make you think not give you conclusions. This section is for entertainment purposes only.

Sponsored by



Organized by



# Moodle Portfolio



Portfolio Evaluation  
Moodle 1.9 Site



You are logged in as Charles Severance (Logout)

## MyStuff

[Overview](#) [Spaces](#) [Tags](#) [Items](#) [Sharing](#) [Pinboard](#)

MyStuff / Overview



### Charles Severance's stuff

 [New items](#) | [New note](#) |

#### Recent activity

 04.04.2008 @ 06:08

No recorded activities

#### Storage

F

0mb of 500mb used

Sponsored by



Organized by



# Moodle Portfolio

The screenshot shows a Moodle-based portfolio system with a red header bar. The header includes the 'MyStuff' logo, a search bar, and navigation tabs: Overview, Spaces, Tags, Items (selected), Sharing, and Pinboard. Below the header, a breadcrumb trail shows 'MyStuff / Items / Manage'. A toolbar provides options for 'New', 'Browse', and filtering by 'Active', 'Archived', or 'Deleted' items. A message indicates 'No items found.' A table lists five rows with checkboxes, but no data. To the right, another section titled 'MyStuff / Tags / Manage' shows a list of tags: Copies (0), Tagless (0), documents (0), hobbies (0), life (0), and links (0). The footer features logos for Santander, LA SALLE, and Universitat Ramon Llull.

	Title & tags	Form	Modified
<input type="checkbox"/>			

	Tag	Tagged	Modified
<input type="checkbox"/>	Copies	0	
<input type="checkbox"/>	Tagless	0	
<input type="checkbox"/>	documents	0	
<input type="checkbox"/>	hobbies	0	
<input type="checkbox"/>	life	0	
<input type="checkbox"/>	links	0	

# Elgg- It is clearly about “you”

Your Blog Your Files Your Network Your Resources Your Profile Account settings Log off

 ULCC Evaluation Site Evaluation Site

Search -- all -- Go

[Browse] [Tag cloud]

## Charles Severance :: Feeds

[Feeds](#) | [Publish to blog](#) | [View aggregator](#) | [Popular Feeds](#)

Feeds are information streams from other sites. You will often see a link to an 'RSS' feed while browsing; enter the link address into the 'add feed' box at the bottom of the page to read that information from within your learning landscape.

You are not subscribed to any feeds.

To subscribe to a new feed, enter its address below:

You



Charles Severance  
[RSS](#) | [Tags](#) | [Resources](#)

Recent Activity

[View your activity](#)

## Elgg is social software

Sponsored by



Organized by



# Elgg - where you fit...

Your Blog Your Files Your Network Your Resources Your Profile      Account settings Log off

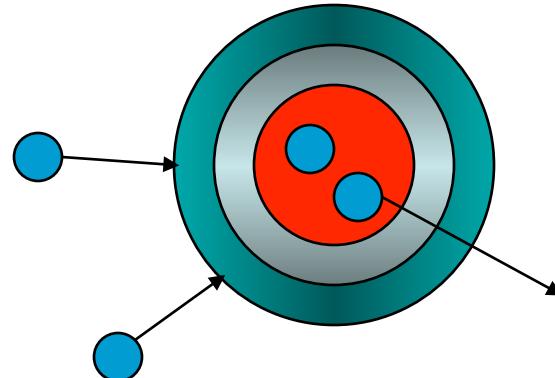
 ULCC Elgg Evaluation Site Evaluation Site

Search -- all -- Go      Browse Tag cloud

## Charles Severance :: Friends I have linked to

[Communities](#) | [Owned Communities](#) | [Community invitations](#) | [Friends](#) | [Friend of](#) | [Friendship requests](#) | [Access controls](#) | [Invite a friend](#)

You don't have any friends listed! To add a user as a friend, click the 'friend' button underneath a user's icon.



You



Charles Severance  
[RSS](#) | [Tags](#) | [Resources](#)

Recent Activity

[View your activity](#)



**mahara** open source eportfolios  
*[mah-hah-rah; verb]: to think, thinking, thought*

[Demo](#) [Download Now](#)

[HOME](#) [FEATURES](#) [COMMUNITY](#) [ROADMAP](#) [SUPPORT AND TRAINING](#) [DOCUMENTATION](#)

## Puts ePortfolio Owners in Control

Established in 2006, Mahara is the result of a collaborative venture funded by New Zealand's Tertiary Education Commission's e-learning Collaborative Development Fund (eCDF), involving Massey University, Auckland University of Technology, The Open Polytechnic of New Zealand and Victoria University of Wellington.

Mahara is a fully featured open source electronic portfolio, weblog, resume builder and social networking system, connecting users and creating online communities. Mahara is designed to provide users with the tools to demonstrate their life-long learning, skills and development over time to selected audiences.

Meaning 'think' or 'thought' in Te Reo Māori, the name reflects the project's dedication to creating a user-centred life-long learning and development application as well as the belief that technology solutions cannot be developed outside the considerations of pedagogy and policy.

Mahara is provided freely as Open Source software (under the [GNU General Public License](#)). In brief, this means that you are allowed to copy, use and modify Mahara provided you agree to:

- provide the source code to others;
- not modify or remove the original license and copyrights, and
- apply this same license to any derivative



**IN THE NEWS...**

► **Mahara 1.0.0 Released**  
2 April 2008  
 Mahara 1.0.0 has been released! This landmark release contains many great new features over the 0.9 series.  
[more](#)

► **Mahara 1.0.0rc1 Released**  
28 March 2008  
 Mahara 1.0.0rc1 has been released, containing many bug fixes and improvements, especially to browser support.  
[more](#)

► **Mahara 1.0.0beta2 Released**  
7 March 2008  
 Mahara 1.0.0beta2 has been released, which contains the new theme and many bug fixes and improvements.  
[more](#)



Sponsored by



Organized by



# Mahara - “My Portfolio”

 **ULCC Portfolio Evaluation**  
**Mahara 1.0.0**

Search 

Home | Profile | **My Portfolio** | Groups | Settings | Logout

My Views | My Files | My Blogs |

## My Views

**A VIEW**    Edit this view  Delete this view

Nobody can see this view

## First View

   Edit this view  Delete this view

Nobody can see this view

2 views

**Charles Severance**    


## Search My Portfolio

Search 

# Mahara - A View

 **ULCC Portfolio Evaluation**  
**Mahara 1.0.0**

Search 

[Home](#) | [Profile](#) | [My Portfolio](#) | [Groups](#) | [Settings](#) | [Logout](#)

[My Views](#) | [My Files](#) | [My Blogs](#) |

### Edit View "A VIEW"

Blogs (3) External feeds (1) Files, images and video (5) General (1) Profile (2) Resumé (2)

 **Blog**  
Display an entire blog

 **Blog Post**  
Display one blog post

 **Recent Blog Posts**  
Display the 10 most recent blog posts

 [Change my view layout](#) 

 [Display my view »](#)

# Mahara - Artifacts

 **ULCC Portfolio Evaluation**  
**Mahara 1.0.0**

Search 

Home | Profile | **My Portfolio** | Groups | Settings | Logout

My Views | My Files | My Blogs |

## Edit View "A VIEW"

Blogs (3) External feeds (1) **Files, Images and video (5)** General (1) Profile (2) Resumé (2)

 **External Video**  
Embed Youtube/Google videos

 **File(s) to Download**  
Select files for people to download

 **A folder**  
A single folder from your Files area

 **An image**  
A single image from your Files area

 **Embedded media**

# Mahara - Artifacts

ULCC Portfolio Evaluation  
Mahara 1.0.0

Search

Home | Profile | **My Portfolio** | Groups | Settings | Logout

My Views | My Files | My Blogs |

## Edit View "A VIEW"

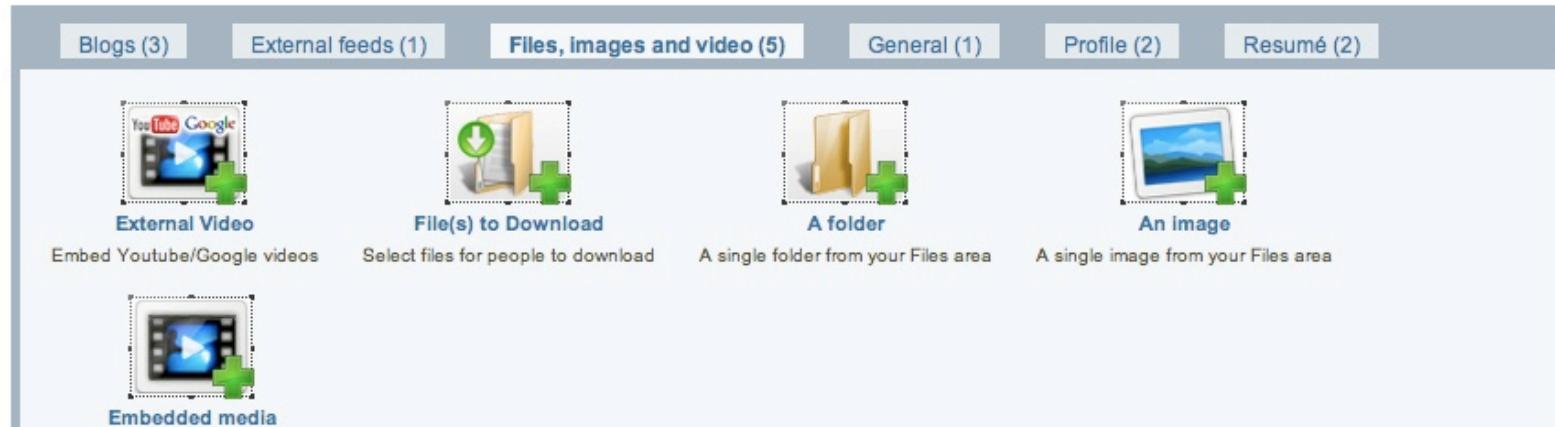
Blogs (3)	External feeds (1)	Files, Images and video (5)	General (1)	Profile (2)	Resumé (2)
External Video	File(s) to Download	A folder	An image		
Embed Youtube/Google videos	Select files for people to download	A single folder from your Files area	A single image from your Files		
Embedded media					

# Up Next-Functionality Mashup



The screenshot shows the Mahara 1.0.0 interface. At the top left is the ULCC logo with the text "University of London Computer Centre". The title "ULCC Portfolio Evaluation" and "Mahara 1.0.0" are displayed prominently. A search bar with a magnifying glass icon is on the right. Below the title is a navigation menu with links: Home, Profile, My Portfolio (which is highlighted in green), Groups, Settings, and Logout. A secondary navigation bar below includes My Views, My Files, and My Blogs. The main content area is titled "Edit View 'A VIEW'".

## Edit View "A VIEW"



The "Edit View" interface displays several content items:

- Blogs (3)**: External Video
- External feeds (1)**: File(s) to Download
- Files, Images and video (5)**: A folder
- General (1)**: An image
- Profile (2)**: Resumé (2)
- Resumé (2)**: Embedded media

Descriptions for each item:

- External Video: Embed Youtube/Google videos
- File(s) to Download: Select files for people to download
- A folder: A single folder from your Files area
- An image: A single image from your Files area
- Embedded media: Embedded media

# First

Congress of Information  
and Communication  
Technology Managers  
**barcelona**  
7th, 8th and 9th of April

IALU  
AIUL

\* International Association of Lasallian Universities  
\* Asociación Internacional de Universidades Lasallistas  
\* Association Internationale des Universités Lasaliennes

# Functionality/Resource Mashup

## Using IMS Learning Tools Interoperability

Sponsored by



Organized by



## Functionality Mashup

Functionality Mashup is the ability to pull a program into another program under end-user control

Functionality Mashup is not just read-only - the mashed up application will need sufficient access to services in the aggregating system to be able to provide rich and dynamic features.

Functionality mashup includes identity, context, and roles.

facebook

Profile edit Friends | ▾ Inbox (1) | ▾ home account privacy logout

Which Star Trek Personality Are You?

This application can be added to your Facebook account.

Add Application

Become a Fan Share with Friends No Updates Block Application

About this Application

Users:  
36 daily active users  
0% of total, 1 friend

Categories  
Gaming, Just for Fun

This application was not developed by Facebook.

About fVentures

We make social media fun.

facebook

Profile edit Friends | ▾ Inbox (1) | ▾

home account privacy logout

Search ▾

Applications edit

- Photos
- Groups
- Events
- Marketplace
- Twitter
- ▼ more

### Add Which Star Trek Personality Are You? to your Facebook account?

**Which Star Trek Personality Are You?**  
by fVentures



Allow this application to...

- Know who I am and access my information
- Put a box in my profile
- Place a link in my left-hand navigation
- Publish stories in my News Feed and Mini-Feed
- Place a link below the profile picture on any profile
- Send me notifications via email

Which Star Trek Personality Are You? was not created by Facebook.  
By clicking 'add,' you agree to the [Platform Application Terms of Use](#).

**[+] Add Which Star Trek Personality Are You?**

or cancel

### The Developer's Description

« Which Star Trek personality are you most like? Take this 30 second quiz and find out if you are Captain Kirk or a mere cadet.

[More Information about Which Star Trek Personality Are You?](#)

Afraid of abuse by this application?  
[Block Which Star Trek Personality Are You?](#)

Sponsored by



Organized by



## Bodington / Leeds

Bodington ([www.bodington.org](http://www.bodington.org)) is an LMS developed by Leeds, Manchester, Oxford, and University of the Highlands and Islands.

Bodington uses a variant of Shibboleth called GuanXI to mash up functionality.

Leeds has done extensive experimentation with functionality mash up.

**"I certainly don't see the VLE or LMS continuing in the form that they currently are, where you have a monolithic application with lots and lots of different tools presented to teachers and students. You very quickly come to the limits of any tool that you use. The answer is to abandon the tool you have been using and to swap in another tool. Now I can see a situation where you extend this from a single tool to all of the tools of an LMS. I can see a situation where the VLE or LMS actually shrinks to a container into which you plug these learning tools". (Dr. Aggie Booth, Leeds University, 2007)**



<http://www.dr-chuck.com/media.php?id=80>

## Functionality Mashup Future – Learning



# IMS Learning Tools Interoperability 2.0

Building the Standards for Learning  
Functionality Mashup



Sponsored by



Organized by



## IMS Tool Interoperability

A standard which is currently under development by IMS ([www.imsglobal.org](http://www.imsglobal.org)) for functionality mash up

Effectively provides Facebook-like capabilities for learning management systems

Read-write access from a tool to the LMS

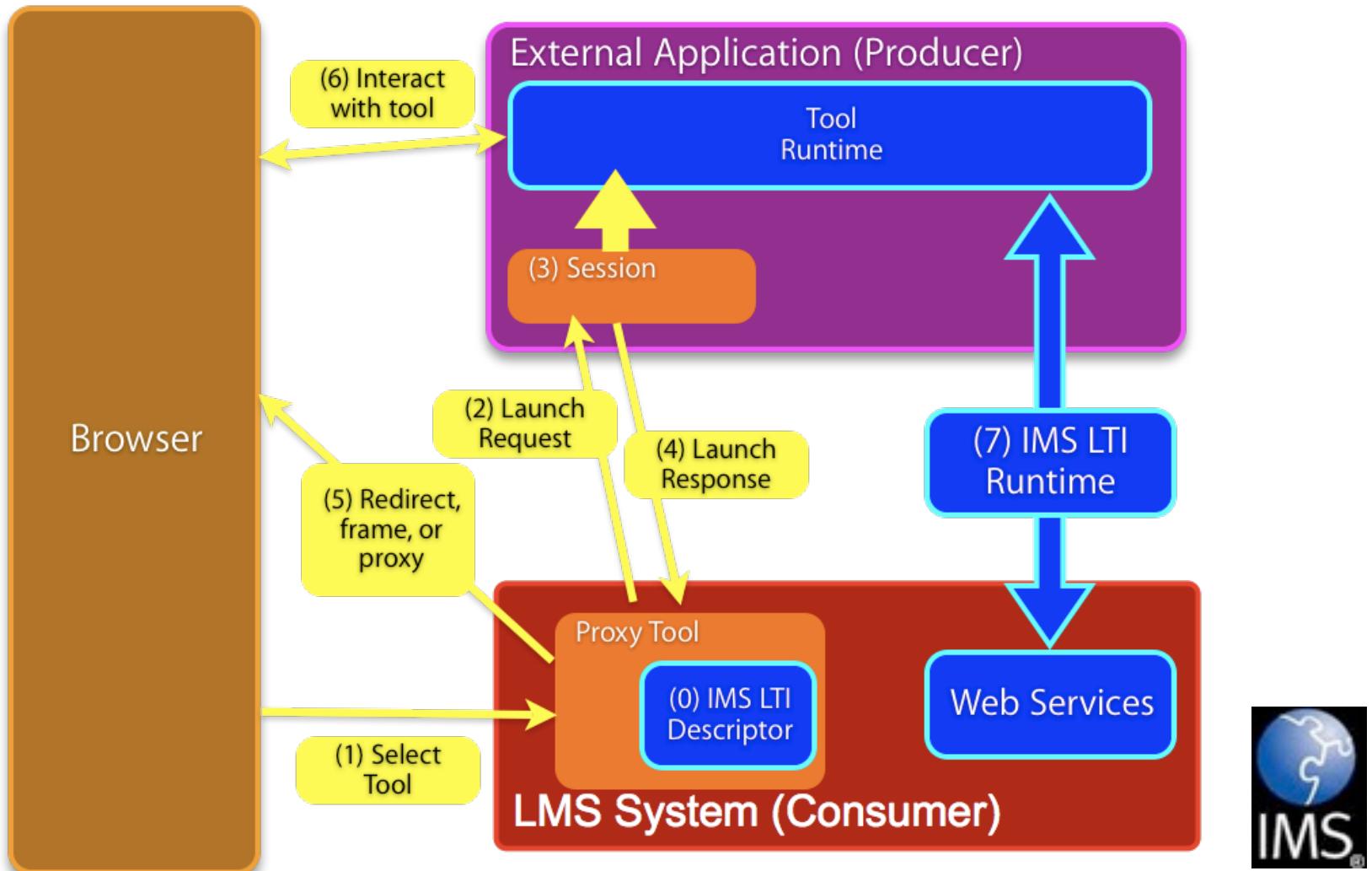


## IMSTools Interoperability 1.0

Demonstrated at IMS Alt-I-  
Lab 2005 in Sheffield  
England

Balckboard, Sakai,  
WebCT, Moodle,  
Samigo, ConceptTutor





# IMS Learning Tool Interoperability 2.0

Currently in Development

Specification Leads

Bruno van Haetsdaele -Wimba

Chris Moffatt - Microsoft

Learning Functionality Mash Up

Integrated into “Add Resource” in learning  
systems



Sponsored by



Organized by



Sakai Based Service : LTI 2.0 Test : IMS TI

http://localhost:8080/portal/site/81f6b30f-4201-487b-839e-faa153dc17e8/page

Logout

**Sakai**

My Workspace Administration Workspace Citations Admin LTI 2.0 Test Portfolio Admin mercury site

IMS Tool Interoperability (JSR-168)

List of Rooms and Archives

Create Room

Title Type Enter Open/Close Remove

looksgreat	room	<a href="#">launch</a>	<a href="#">open</a>	<a href="#">delete</a>
testroom1	room	<a href="#">launch</a>	<a href="#">close</a>	<a href="#">delete</a>
testroom2	room	<a href="#">launch</a>	<a href="#">close</a>	<a href="#">delete</a>

Blackboard Academic Suite

http://mt-bb72.wimba.com/webapps/portal/frameset.jsp?tab=courses&url=/t

Your Institution UNIVERSITY

Home Help Logout Developer Copy

My Institution Courses Community Services System Admin

List of Rooms and Archives

Create Room

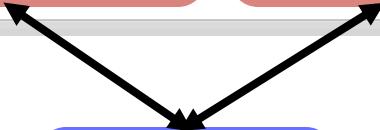
Title Type Enter Open/Close Remove

looksgreat	room	<a href="#">launch</a>	<a href="#">open</a>	<a href="#">delete</a>
testroom1	room	<a href="#">launch</a>	<a href="#">close</a>	<a href="#">delete</a>
testroom2	room	<a href="#">launch</a>	<a href="#">close</a>	<a href="#">delete</a>

BlackBoard

Sakai

Wimba



## UM.SiteMaker

SiteMaker is a simple, end-user tool to build web sites

Database capability called “data tables”

Combination of power and simplicity

Written in Apple’s Web Objects

Has its own open source community

Should we rewrite SiteMaker in Sakai? No.

## Sakai / Sitemaker Integration

Launching via IMS LTI 2.0 (an early draft)

Experiment in the ease of workflow of mashing  
a tool up

Specialized endpoint in Sakai to simplify user  
experience

Model: YouTube - “paste this HTML”

## GVC.SiteMaker

[Return to Main Page](#)

[Logout](#)

You are logged in as user: [maybaum@umich.edu](mailto:maybaum@umich.edu).

This site is owned by: [maybaum@umich.edu](mailto:maybaum@umich.edu), and associated with unit: **GVC.SiteMaker Development**.

Configuring site with SiteID: **LTI.demo**, site URL is: <http://192.168.0.6/Lti.demo>.

## Configure Access Groups

[Add Group](#)

**Group Name:**

(required)

**Group Location:**

(required)

### Groups in use

Group Name	Action	Delete
Remote Participants <i>RemotePart Group</i>	<a href="#">View/Configure</a>	In Use
Site Owner/Co-owners <i>Local Group</i>	<a href="#">View/Configure</a>	In Use

The users listed in the **Site Owner/Co-owners** group above have permission to configure this website. You may add additional users who will be considered site co-owners. You may also remove any co-owners from this list. The site owner can only be changed by an administrator.

Sponsored by



Organized by



**GVC.SiteMaker**

You are logged in as user: [maybaum@umich.edu](mailto:maybaum@umich.edu).  
This site is owned by: [maybaum@umich.edu](mailto:maybaum@umich.edu), and associated with unit: **GVC.SiteMaker Development**.  
Configuring site with SiteID: **LTI.demo**, site URL is: <http://192.168.0.6/LTI.demo>

**Revise Access Group**

[Return to Main Page](#) [Logout](#)

[Cancel](#) [Update](#) [Update & Done](#)

---

**Group Name:** *(required)*

**Remote Participation Password:** *(leave blank to deny access)*

**Select Style:**

**Remote Participants**

**Use this URL in remote system:**

<http://192.168.0.6/apps/WebObjects/GVCSiteMaker.woa/wa/tiLaunch?site=LTI.demo>



[Logout](#)

[My Workspace](#)

[Administration Workspace](#)

[Citations Admin](#)

[LTI 2.0](#)

[Portfolio Admin](#)

[mercury site](#)

[Home](#)

[Site Info](#)

SiteMaker

[Help](#)

Users present:  
Sakai Administrator

## IMS Learning Tool Interoperability (JSR-168)

[Tool View](#) | [Clear Session Settings](#) | [Clear Stored Preferences](#)



### Remote Participation Information

SiteMaker Url:

SiteMaker Password:

[Update Options](#)

Sponsored by



Organized by





[My Workspace](#)

[LTI 2.0](#)

[SiteMaker](#)



[View YouTube Videos](#)

[Manage YouTube Videos](#)

**Navigate Database Table: "YouTube Videos"**

**Current record is #1 out of 1 in found set (1 total records in table)**

[List View](#) [Search](#) [Find All](#)

<<First <Prev >Next> Last>>

## Kol Halev in Argentina - Part 1



This video was taken during our concert in Rosario, Argentina, during the summer of 2007. The trip was a very rewarding experience, both for Kol Halev and for each of the communities that we visited.

[Comments](#) [Add Comment](#)

I found the music to be spirited, and very heartfelt. Very commendable for the group...

Sponsored by



Organized by



# IMS Learning Tools Interoperability Demonstration

## IMS Learning Impact

May 12-16, 2008, Austin, TX, USA

<http://www.imsglobal.org/>

Blackboard, Moodle, Sakai, SharePoint,  
Wimba....

# First

Congress of Information  
and Communication  
Technology Managers  
**barcelona**  
7th, 8th and 9th of April

IALU  
AIUL

\* International Association of Lasallian Universities  
\* Asociación Internacional de Universidades Lasallistas  
\* Association Internationale des Universités Lasaliennes

# Sakai / IMS Google Summer of Code



Sakai



Sponsored by



Organized by



## Functionality Mashup Using IMS Learning Tools Interoperability Google 2008 Summer of Code



**Update:** Sakai and IMS are very pleased to have been selected for [Google Summer of code 2008](#). We are now in the phase of the process where students and mentors interact and get to know each other better. Students applications are accepted by Google from [March 24 - March 31](#). Students interested in working Sakai should read this entire page paying particular attention to the [Ideas section](#) below. If you have any questions, you should feel free to contact [Dr. Chuck](#) directly.

This Summer of Code 2008 ideas page centers around the notion of building open source reference implementations in a number of Learning Management Systems and environments for the IMS Learning Tool Interoperability specification which is under development.

IMS LTI has the potential to dramatically transform the use of technology in education. With IMS LTI, teachers and students will be able to use a wide variety of tools in their teaching and learning - not just the tools installed in their centrally installed learning management system. In addition, IMS LTI has the potential to put learners in charge of their own learning over their lifetime. The hope is to make the mash-up of teaching and learning tools as simple as placing the Google and YouTube videos on this page.

Presentation: [Breaking Down Barriers Between Learning Systems](#)  
December 17, 2007, Open University, Milton Keynes UK

## General Idea

Build many different implementations of IMS  
Tool Interoperability

Variations on a theme - think beyond just  
learning management systems

Try to create an initial body of work to make it  
worth while to build tools using IMS Tool  
Interoperability



Sponsored by



Organized by



## Proposed Project Ideas

Sakai

Consumer

Producer

Moodle

Consumer

Producer

Atutor

Elgg

Chisimba

Drupal

Google Android

Rails IMS TI Test Kit

Consumer

Producer

Proxied access

Consumer = LMS   Producer = Tool



Sponsored by



Organized by



## Moodle Happens

Moodle development and other great issues

Home   About

Apr 08 Applying for a Google SoC at few hours to deadline

DFWikiLABS, Moodle No Comments »

Today have been a strange day.

This morning I entered to my boss office like every Monday: we usually make the working planning for all week and also we meet some of his grad students that need help, orientation or (even) more work.

Today was a little different, we had a [Campus project](#) meeting at 9h. So we talk about weekend, music and finally about work (not too much). We also attended [Gonzalo](#), he wanted to explain us last improvements that he have made to the [WikiBook](#).

I don't know what time was when we left [FIB](#) (at [UPC](#) north campus) to take the bus to the [UOC](#) buildings but I'm sure about one thing, we were late.

When we arrived to the meeting [Pablo Casado](#) was speaking about problems they faced

Ohloh

pigui 445 commits, 2 kudos

Categories

- Bookmarks
- BPM
- DFWikiLABS
- How-to
- Moodle
- NWiki
- PXC
- Review

Tags

backups BPM certificate database datablib.php DFWikiLABS DFWikiTeam dmlib.php Drupal Eclipse Hibernate



Jordi Piguillem Poch / Marc Alier

Sponsored by



Organized by



# Sakai / IMS Google Summer of Code

Currently Evaluating Student Applications

Hope to get 1-3 students as a first-year Summer  
of Code participant



Sponsored by



Organized by



## Coming back to earth...

We can never get too excited about the ultimate future and lose track of the immediate future.

Sponsored by

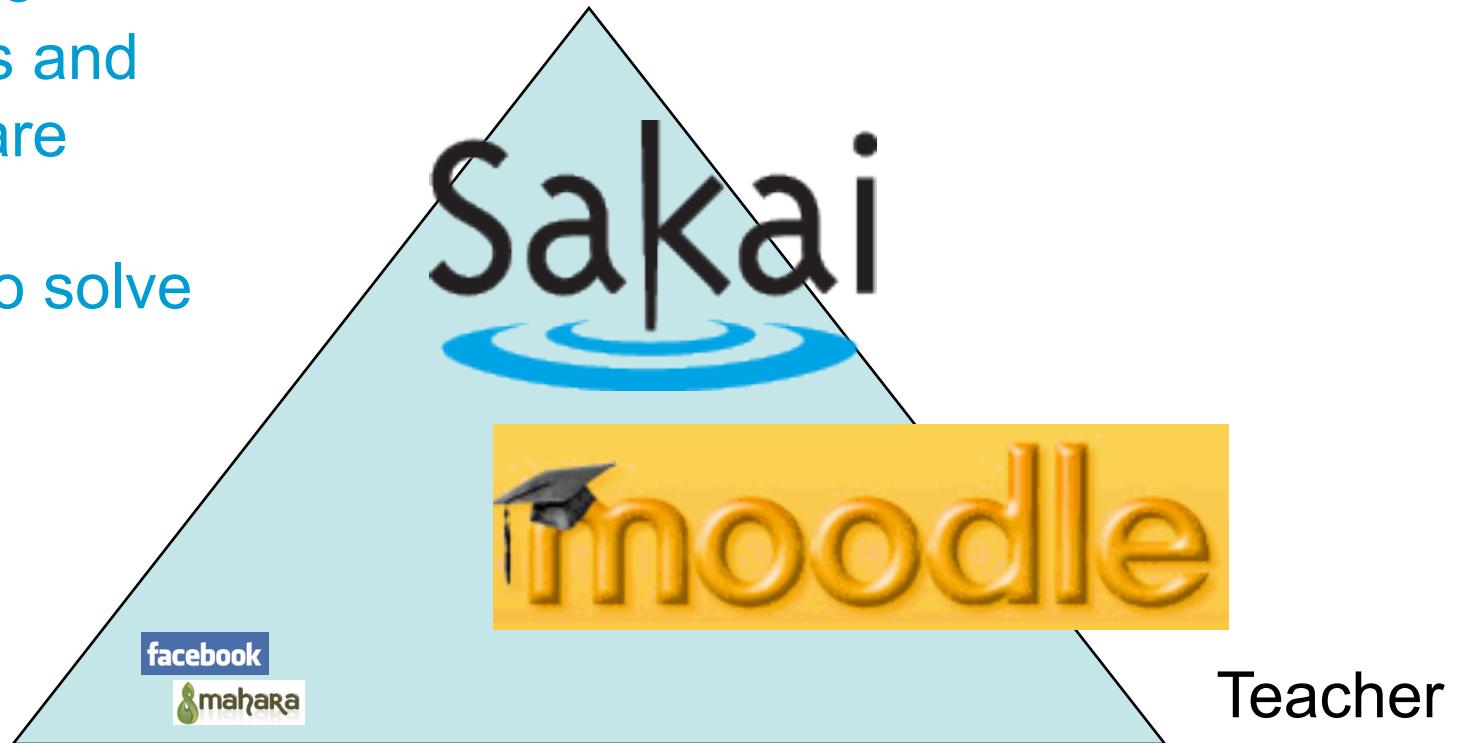


Organized by



Serving the  
institutions and  
teachers are  
problems  
we need to solve  
today

Institution



# Campus Project

Making tools which work in either Sakai  
or Moodle using OKI for interchange  
and interoperability.



Sponsored by



Organized by



# Campus Project

Open University of Catalonia

[www.campusproject.org](http://www.campusproject.org)



A tool building pattern which allows a tool to work either in Sakai or Moodle.

Functionality is accessed using the OKI Open System Interface Definitions



Sponsored by



Organized by



# Campus Project

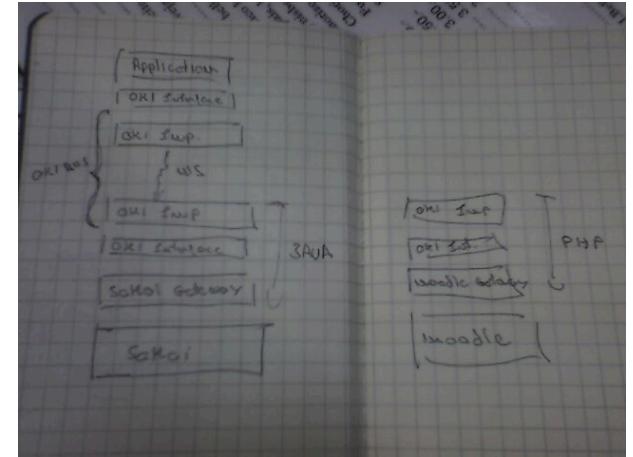
Proxy Tool Pattern

OKI Bus as Middleware

Service Oriented Architecture

Includes cross-deployment and configuration

Funding by Catalan Government



Sponsored by



Organized by



# First

Congress of Information  
and Communication  
Technology Managers  
**barcelona**  
7th, 8th and 9th of April

IALU  
AIUL

\* International Association of Lasallian Universities  
\* Asociación Internacional de Universidades Lasallistas  
\* Association Internationale des Universités Lasaliennes

# MyCamTools - Cambridge University

Adding a Student-Centered View to  
Sakai



Sponsored by



Organized by



## User Centered Sakai

Cambridge University is experimenting with a new interface to Sakai which is focused on giving the users more control over their interaction with Sakai.

Users also have more flexibility with widgets which provide dashboard information outside of Sakai in the interface of their choosing

## CamTools Widgets

Wherever the user wants to learn - meet them there.



### CamTools Everywhere

- In your Mac dashboard
- In your Google desktop
- In your iGoogle homepage
- In your Facebook
- Via RSS
- In your Vista Sidebar



**My Startpage (Add stuff ...)**

**My File Finder**

Start typing the name of your file  search

This will also search within file content

**My Courses and Projects**

Start typing the name of a course/project

- ★ Personal Tools
- ★ CARET

You can join courses/projects in your [Courses & I](#)

**Current Moon Phase**

**Message Of The Day**

Dutch for the masses, now on CamTools.

**Recent Activity**

< 1 >

- 📁 CARET: New file - **blue-border.gif** (14 Feb 08 15:37)
- 📁 CARET: New file - **Step1.png** (14 Feb 08 15:37)
- 📁 CARET: New file - **ext-all-debug.js** (14 Feb 08 15:38)
- 📁 CARET: New file - **ext-core-debug.js** (14 Feb 08 15:38)
- 📁 CARET: New file - **ext-core.js** (14 Feb 08 15:38)
- 📁 CARET: New file - **ext-1.js** (12 Feb 08 16:33)

**Quick Announcement**

Title:   
Body:   
--- Select course or project ---  Add

Please use the Announcements tool for more opt

**My RSS Feed**

< 1 2 3 >

- [Unlocking the potential of mature women students](#)  
(Cambridge University News - 04-04-2008 07:56:00)
- [Cambridge academic appointed Chief Scientific Adviser for Ministry of Defence](#)  
(Cambridge University News - 03-04-2008 13:49:59)
- [New evidence for star formation from recently discovered galaxies](#)  
(Cambridge University News - 03-04-2008 09:11:00)
- [Archaeological finds on observatory site](#)  
(Cambridge University News - 03-04-2008 07:56:00)
- [Mark Prisk MP visits Judge Business School](#)  
(Cambridge University News - 02-04-2008 07:56:00)

[Manage my feeds](#)

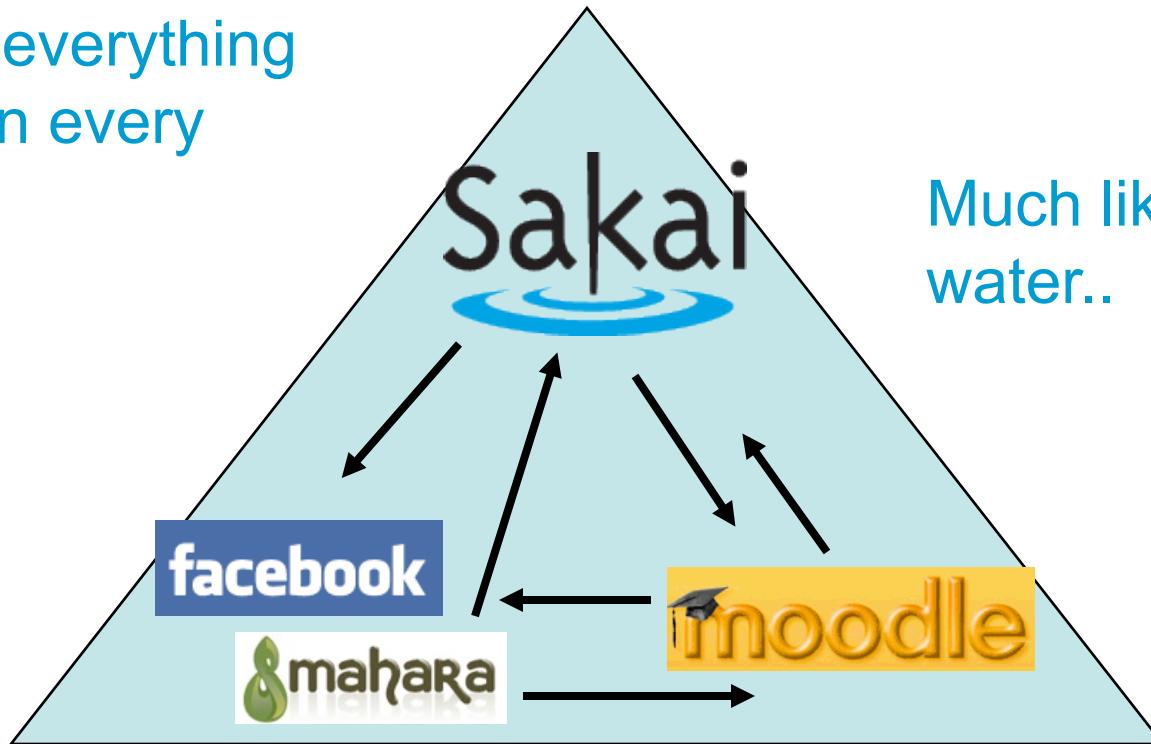
In reality everything  
is going in every  
direction.

Institution

Much like boiling  
water..

Student

Teacher



## A lot of topics

Looking back at looking forward (2004)

More than just free source code

Student-Centered Learning

What will the “next” LMS look like?

Resource Mashup - IMS Tool Interoperability

Google Summer of Code

Campus Project

User Centered Sakai - MyCamTools

## Short Term

It is important to continue to invest in open source learning systems such as Sakai and Moodle

These communities need to be strong and need to compete, communicate, and cooperate to become stronger

We need to invest in real, interoperable standards by working together through IMS

## Medium Term

Build out from solid Enterprise Learning  
Systems using Functionality Mashup instead  
of rewriting

Break down the plug-in “islands” built by  
BlackBoard, Sakai, Moodle, Angel, etc

Build a portable “building block” and begin to  
use it for our real Applications

## Long Term

With the basic activity of the institution and teacher well in hand - build the student-centered world

But we should not make this yet another isolated stovepipe - making us choose amongst solutions

We do not want to allow “islands” to be built in the student-centered world

*“... free software is not about price - it is  
about freedom.”*

- Richard Stallman



## Summary

Open Source Learning Management Systems  
such as Moodle and Sakai are just the  
appetizer

True innovation will happen with the exchange  
of ideas and new ways of thinking about  
teaching

We are approaching the “boiling point” in  
teaching and learning

# First

Congress of Information  
and Communication  
Technology Managers

**barcelona**

7th, 8th and 9th of April



\* International Association of Lasallian Universities  
\* Asociación Internacional de Universidades Lasallistas  
\* Association Internationale des Universités Lasaliennes

---

# Gràcies per la vostra atenció.

---

Sponsored by



Organized by

