

First

Congress of Information
and Communication
Technology Managers

barcelona

7th, 8th and 9th of April

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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

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Innovation Adoption Learning

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Background
Collaborations
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- [Download Specifications](#)
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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.



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Outline

Looking back at looking forward (2004)

More than just free source code

Student-Centered Learning

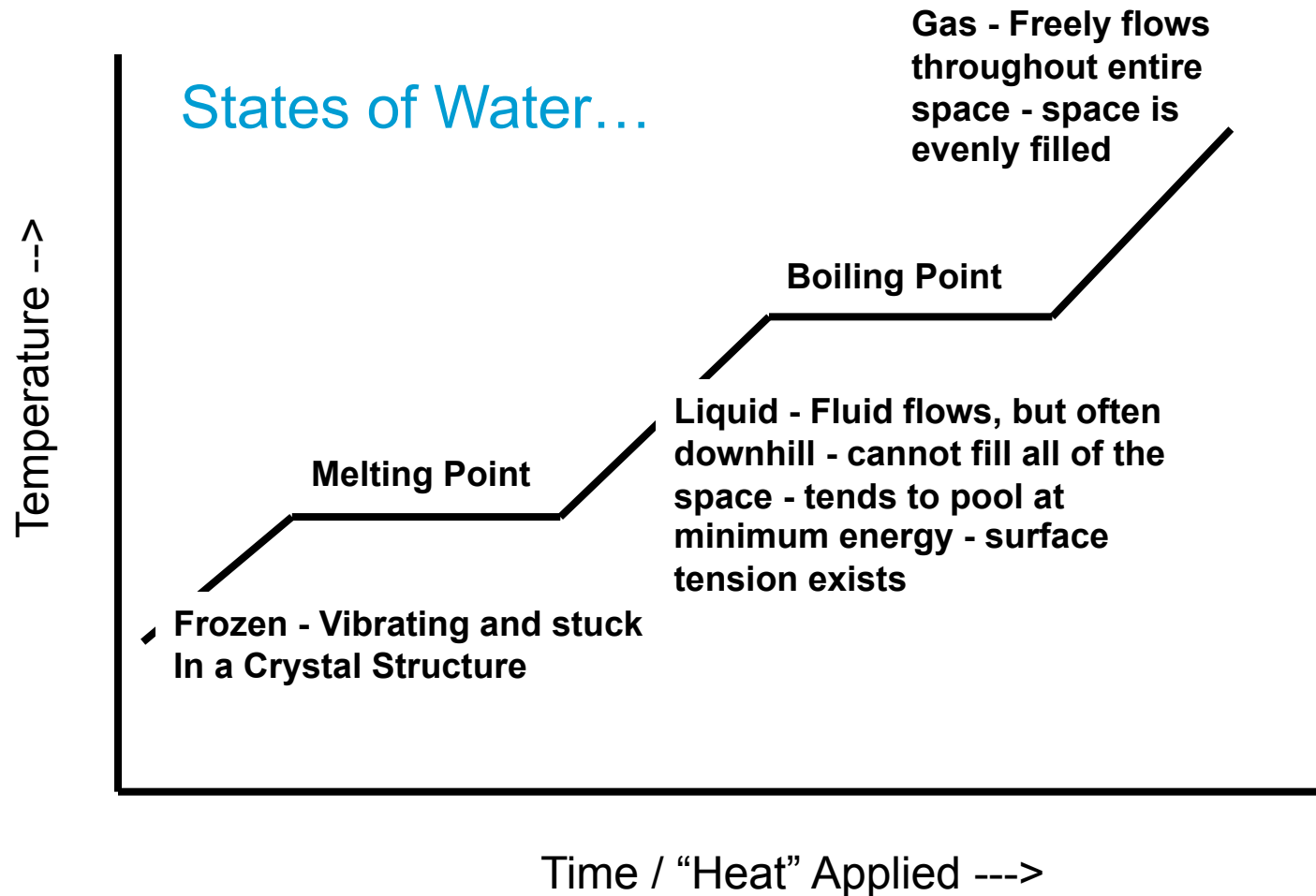
What will the “next” LMS look like?

Resource Mashup - IMS Tool Interoperability

Google Summer of Code

Campus Project

User Centered Sakai - MyCamTools



Dec-2004

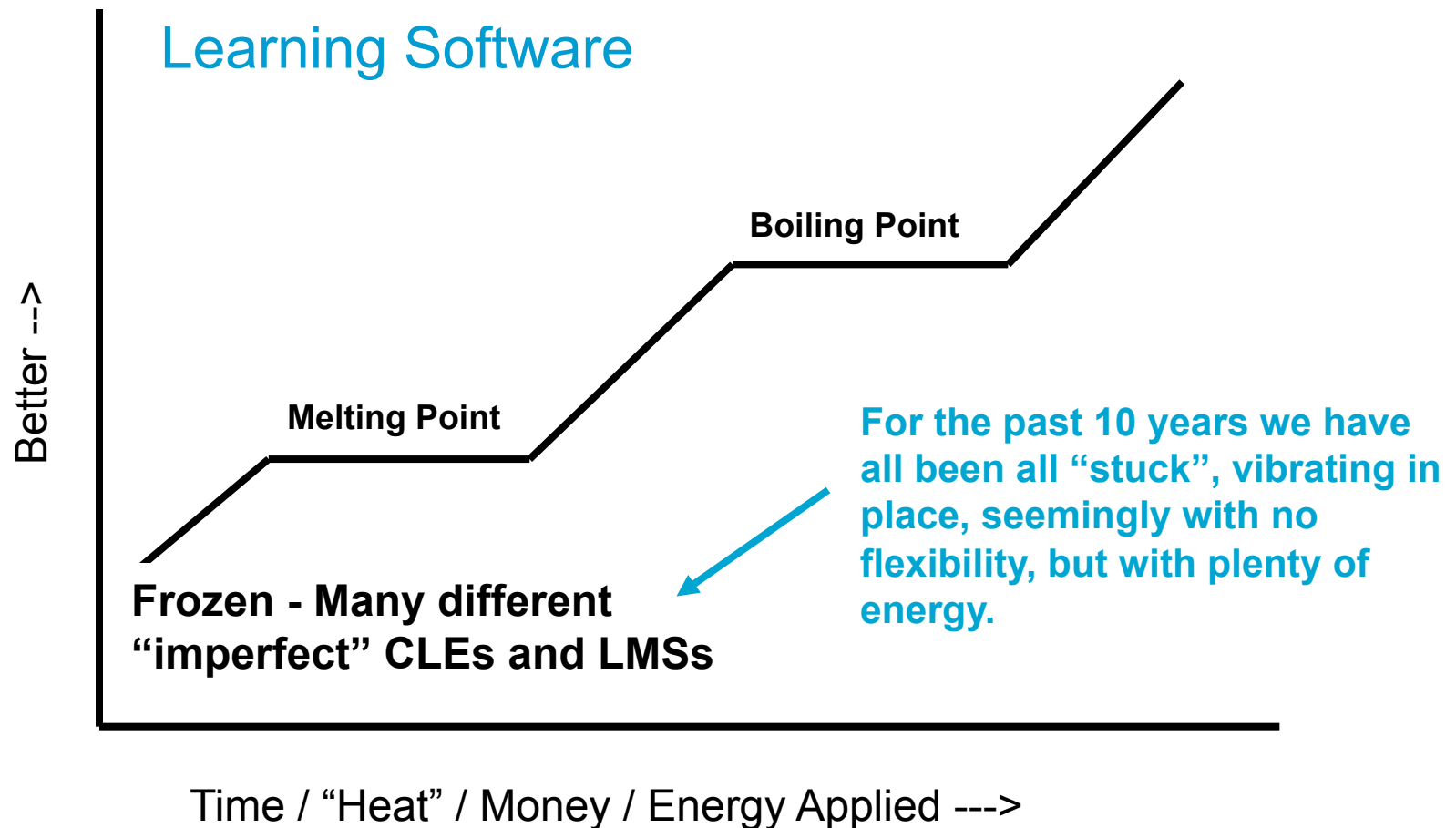
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Latent Heat of Learning Software



Dec-2004

Sponsored by

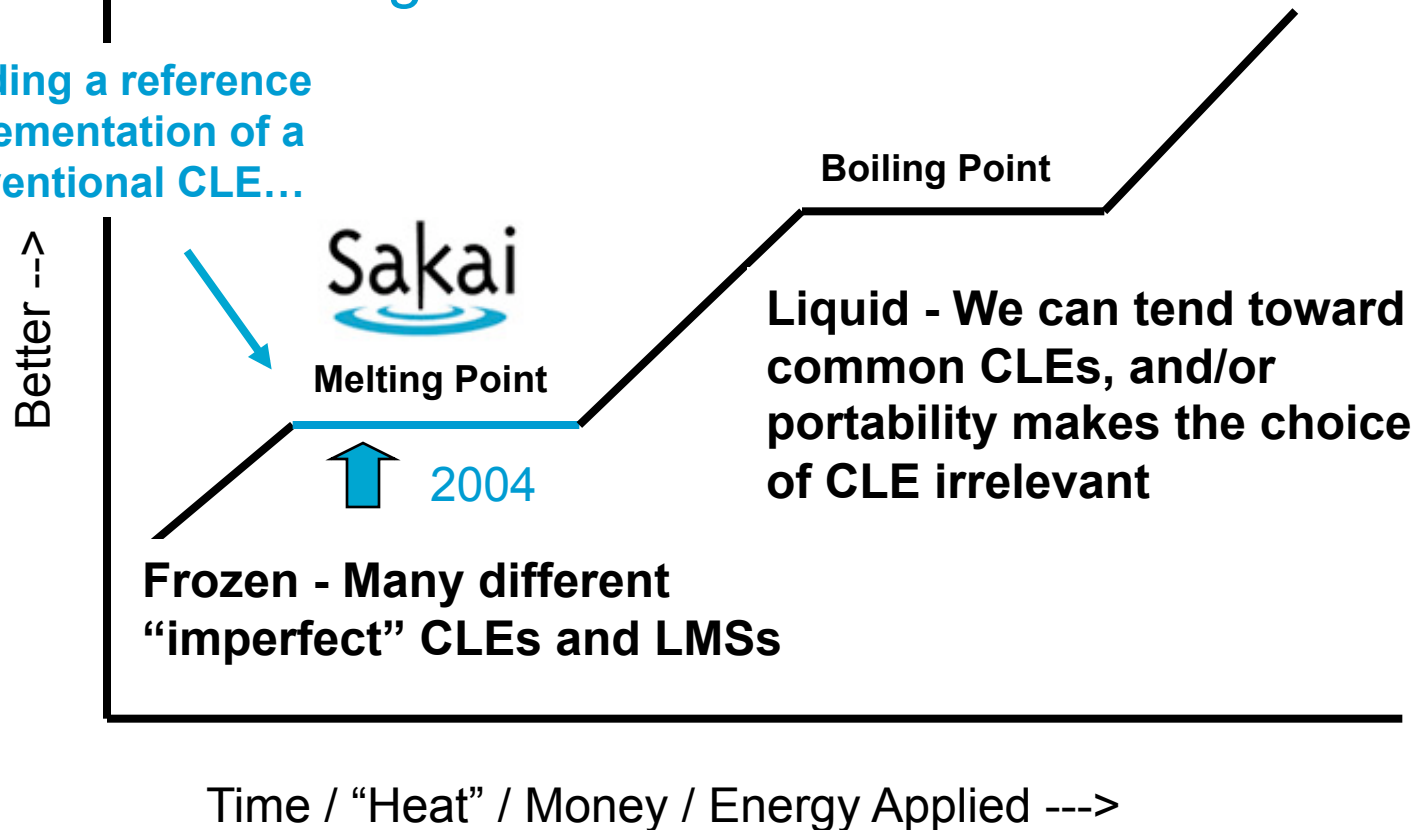


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Latent Heat of Learning Software

Building a reference
implementation of a
conventional CLE...



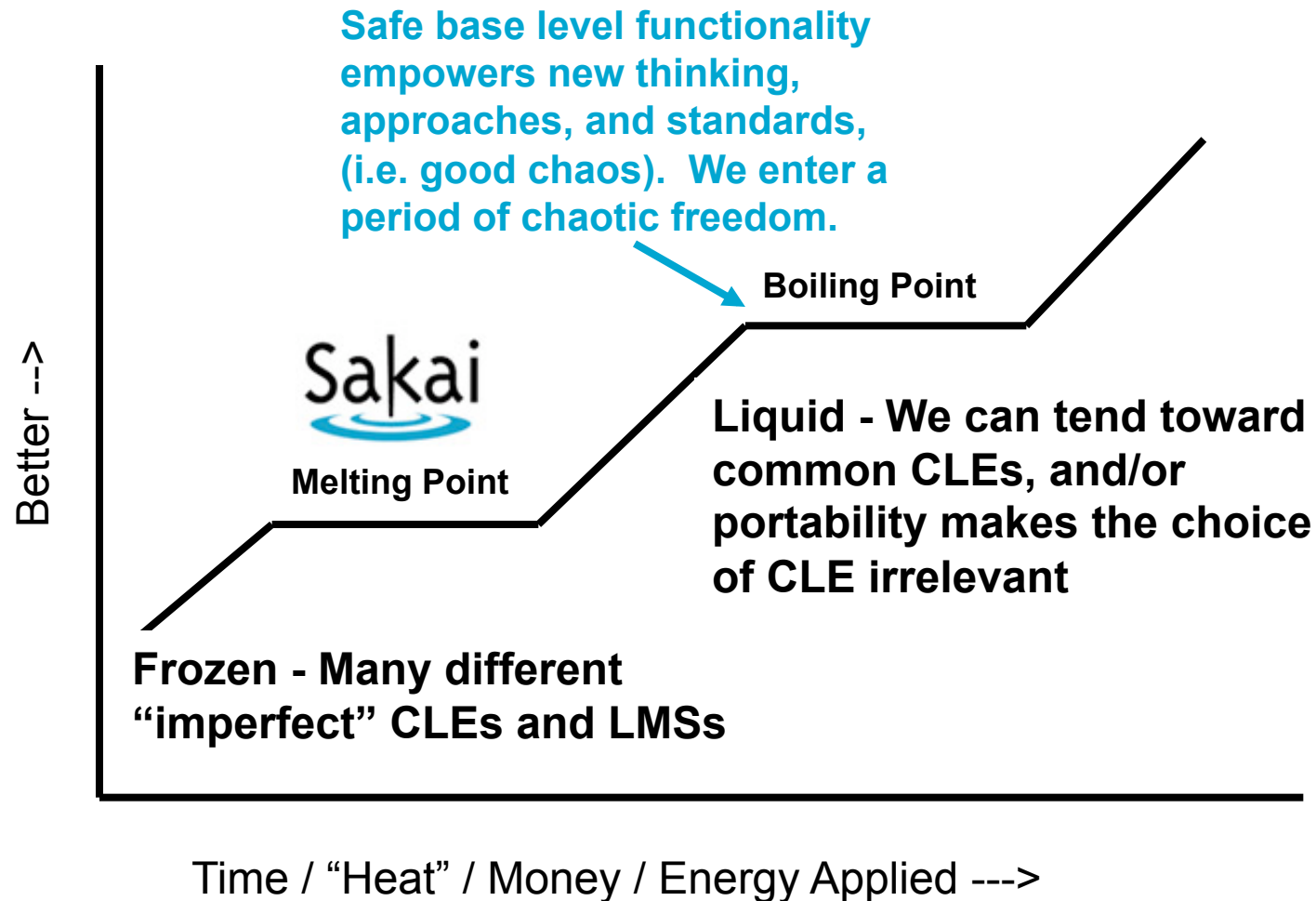
Dec-2004

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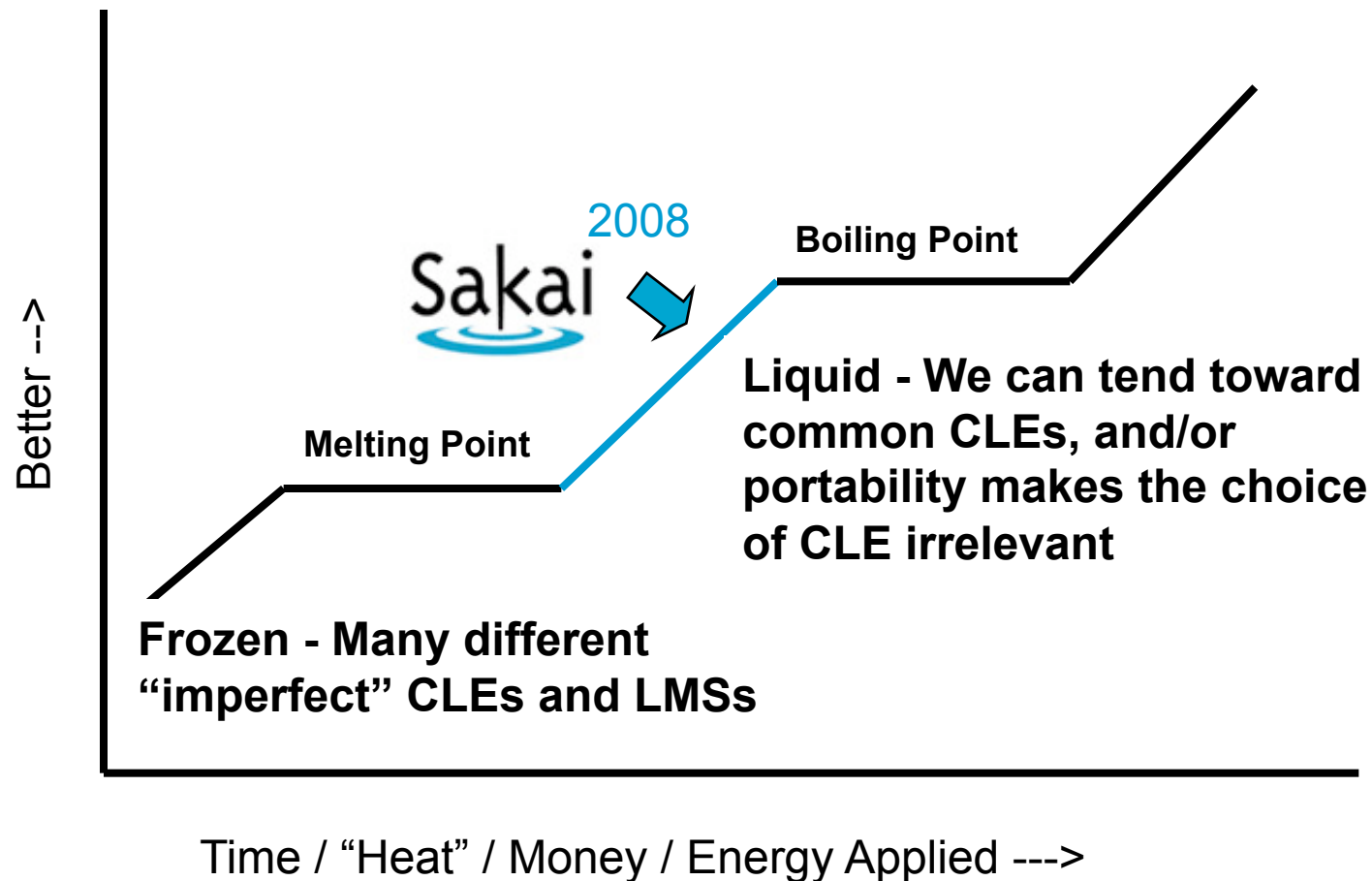
Dec-2004

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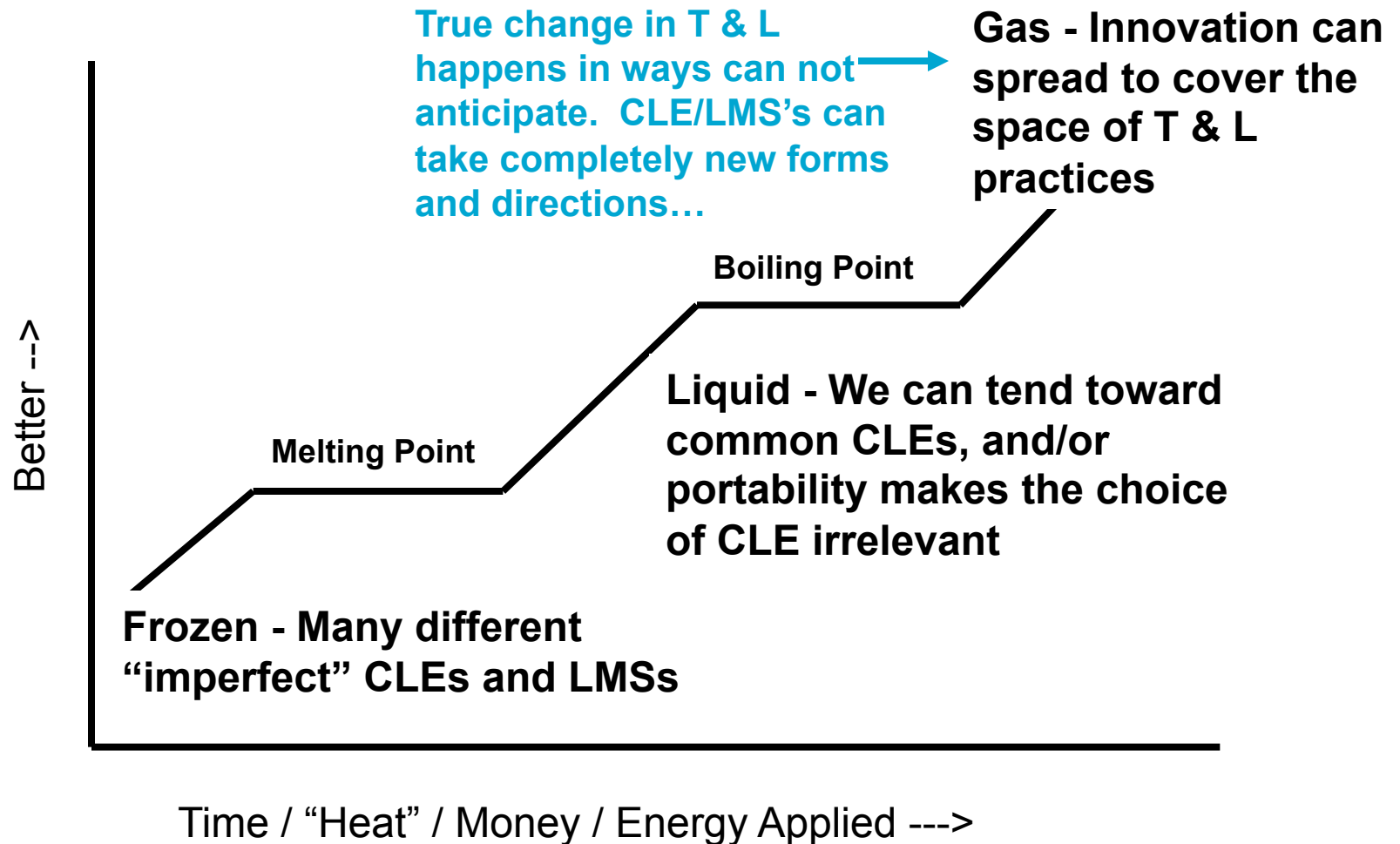
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More Than Free Source Code

Open Source leads to Open Thinking
and Open Innovation

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Open Everything

Open Source

Open Intellectual Property

Open Thinking

Open Ideas

Open Innovation

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Open Michigan Screen Prototype Screen shot removed

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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..

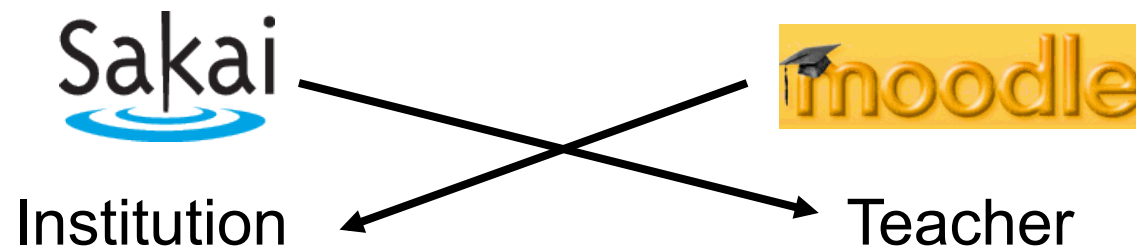
Moodle is adding web service APIs (Sakai)...

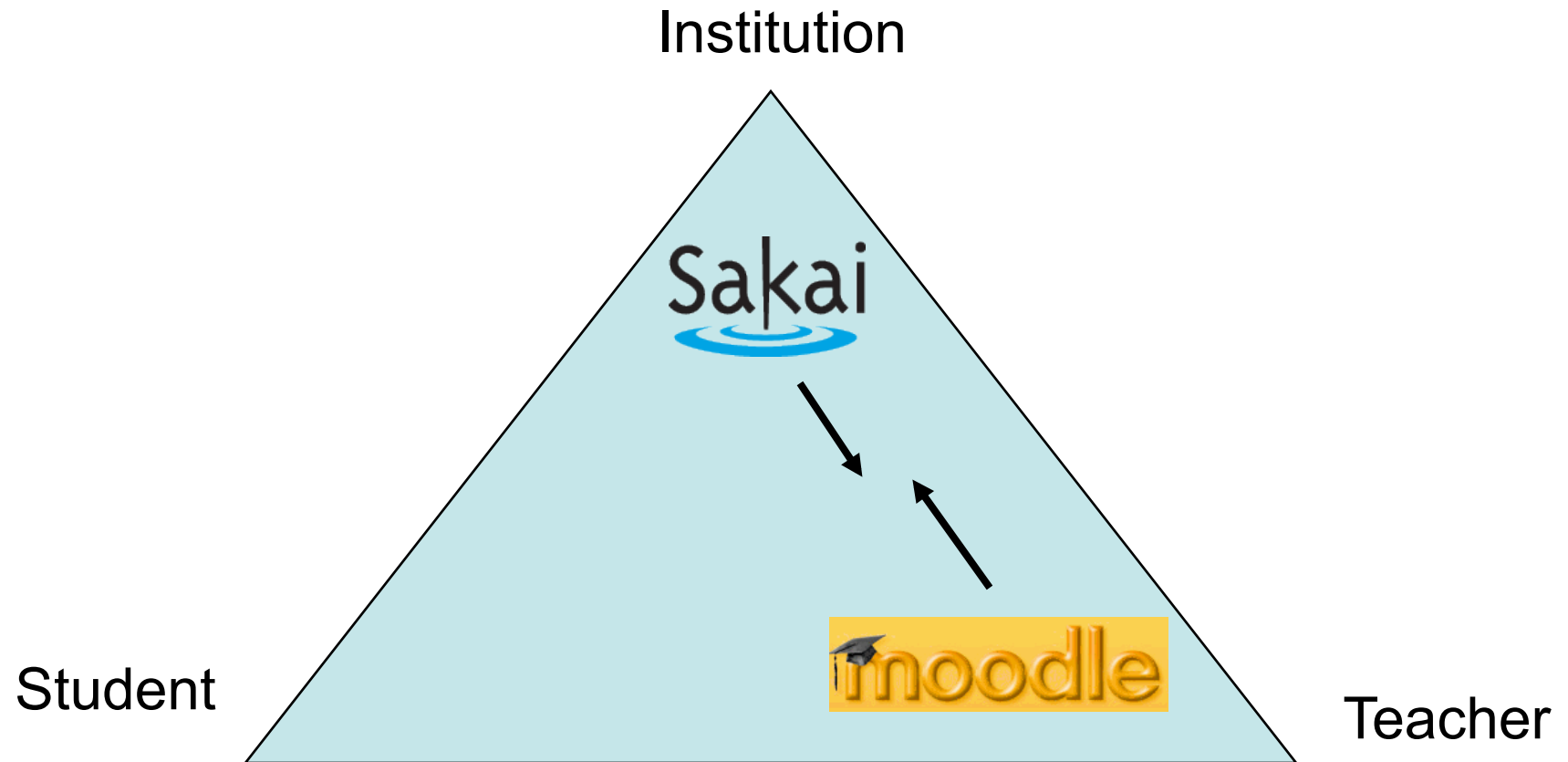
Everyone is glad to see teaching and learning improving

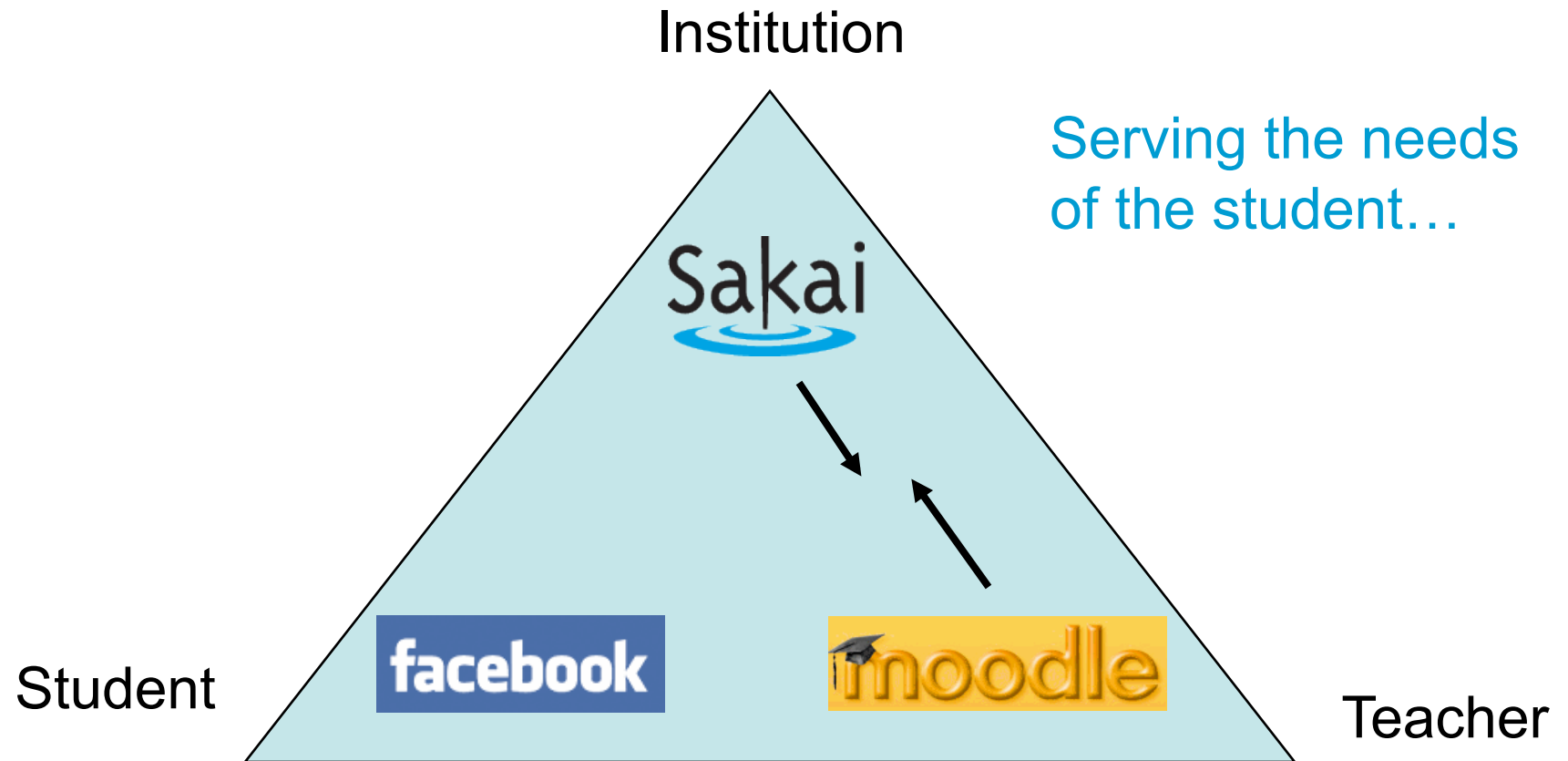
Addressing Weaknesses

Moodle is working on increasing its appeal to
enterprise institutions

Sakai is working on building interfaces that
teachers will love







Institution

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

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

Student

Sakai

moodle

Teacher

facebook

Student Centered Learning

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

University of Michigan Medical School

In 2007, the 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



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.

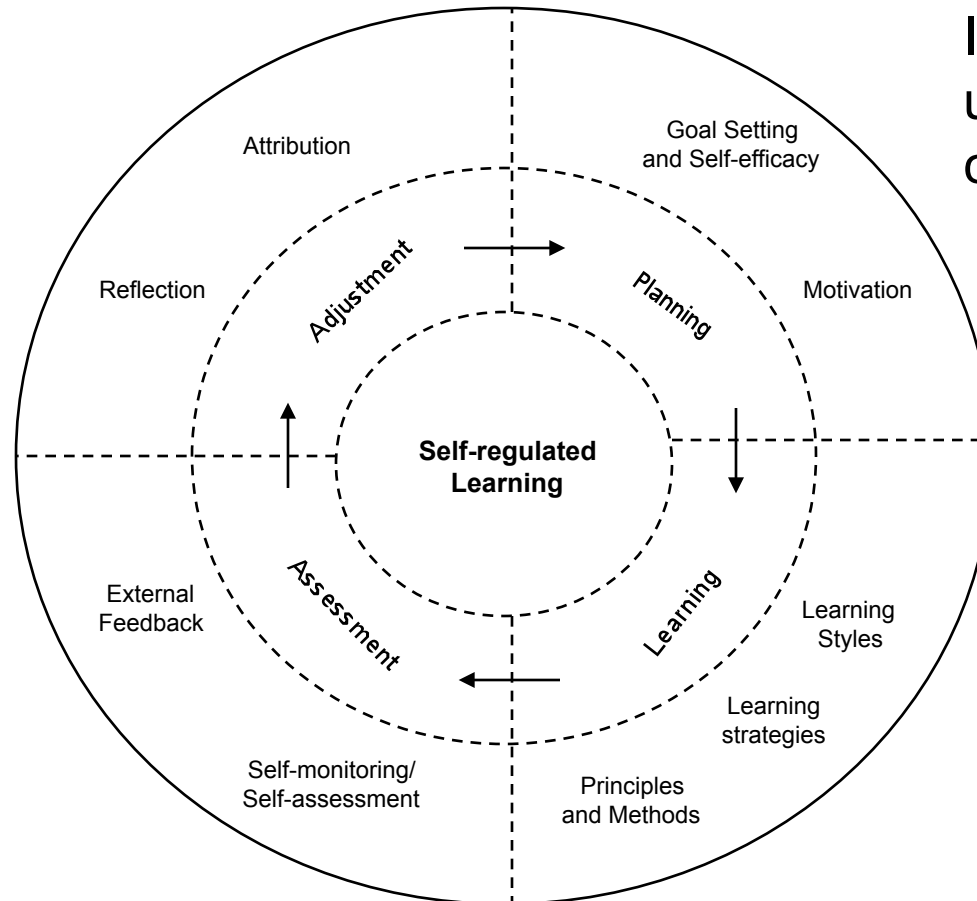
Joseph C. Fantone, M.D.

March 2008



A Model for Self-regulated Learning*

Inner ring is the
users's learning
cycle.



Outer ring is the
institution'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

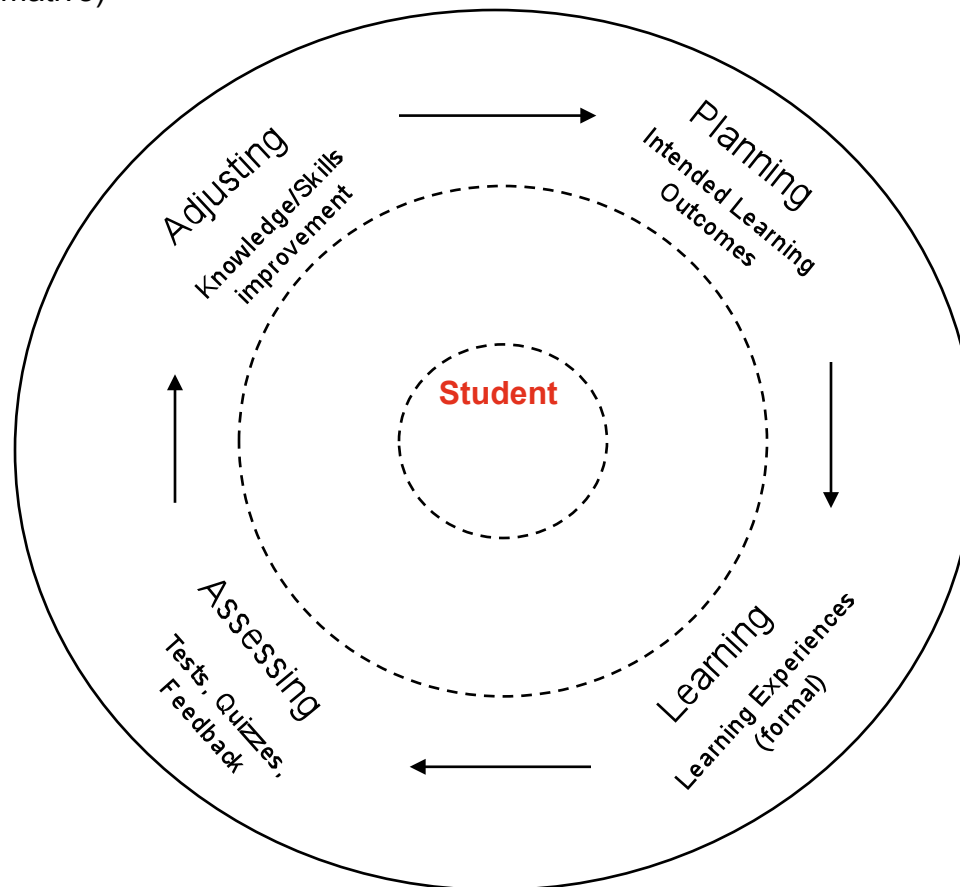
Continuous (formative/summative)

Feedback = key

Student responsibility &

Accountability

Lifelong learning



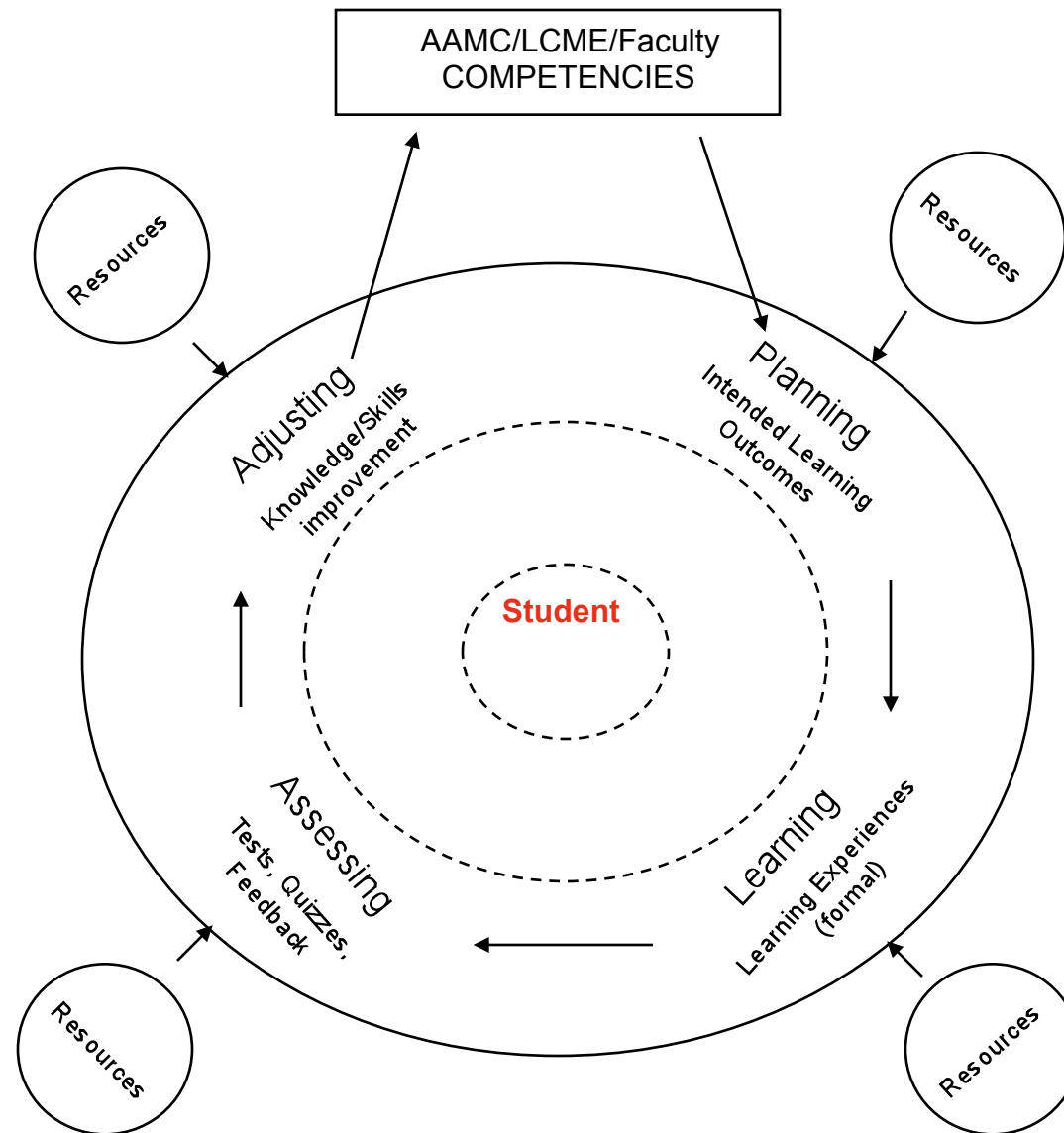
Sponsored by



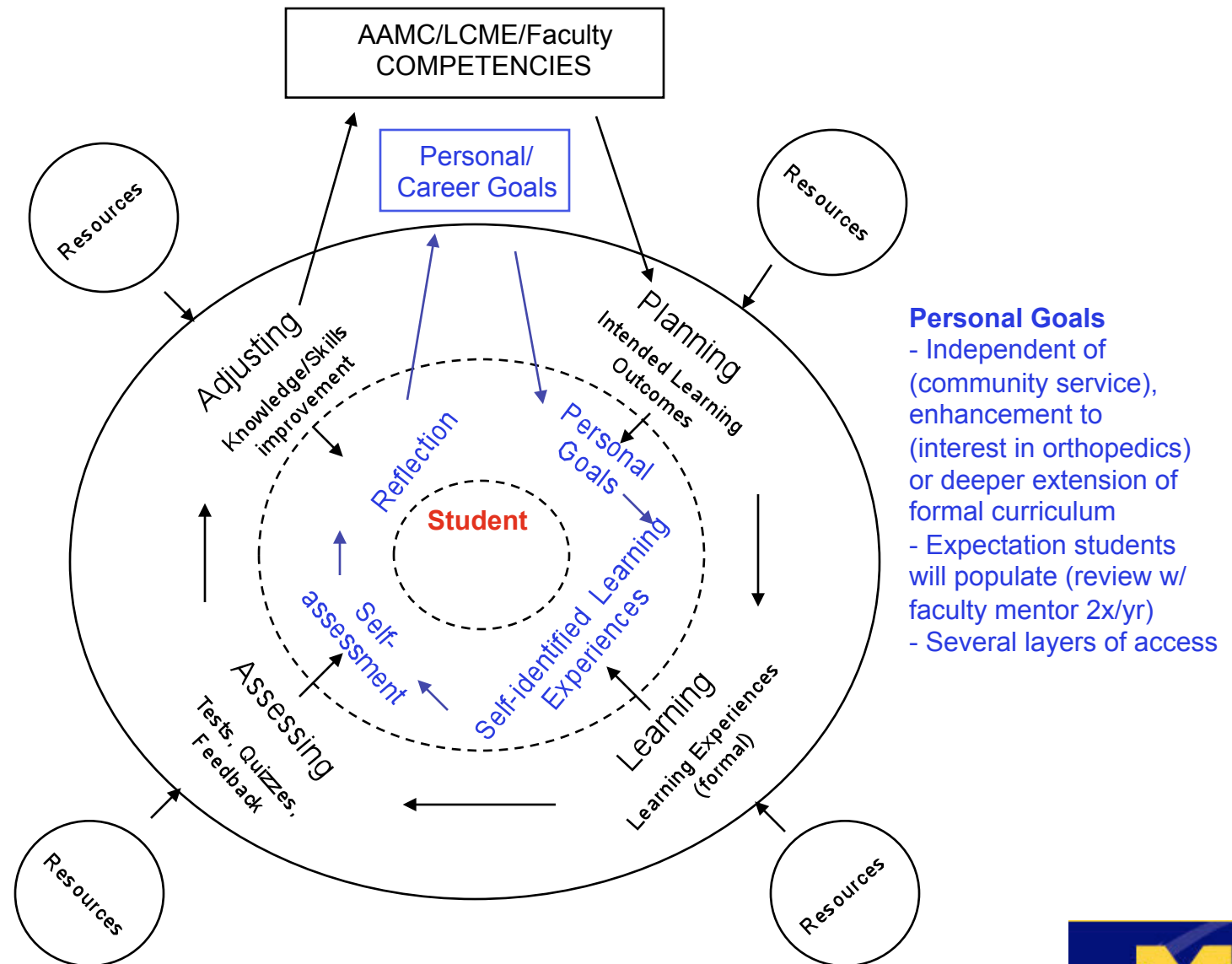
Organized by



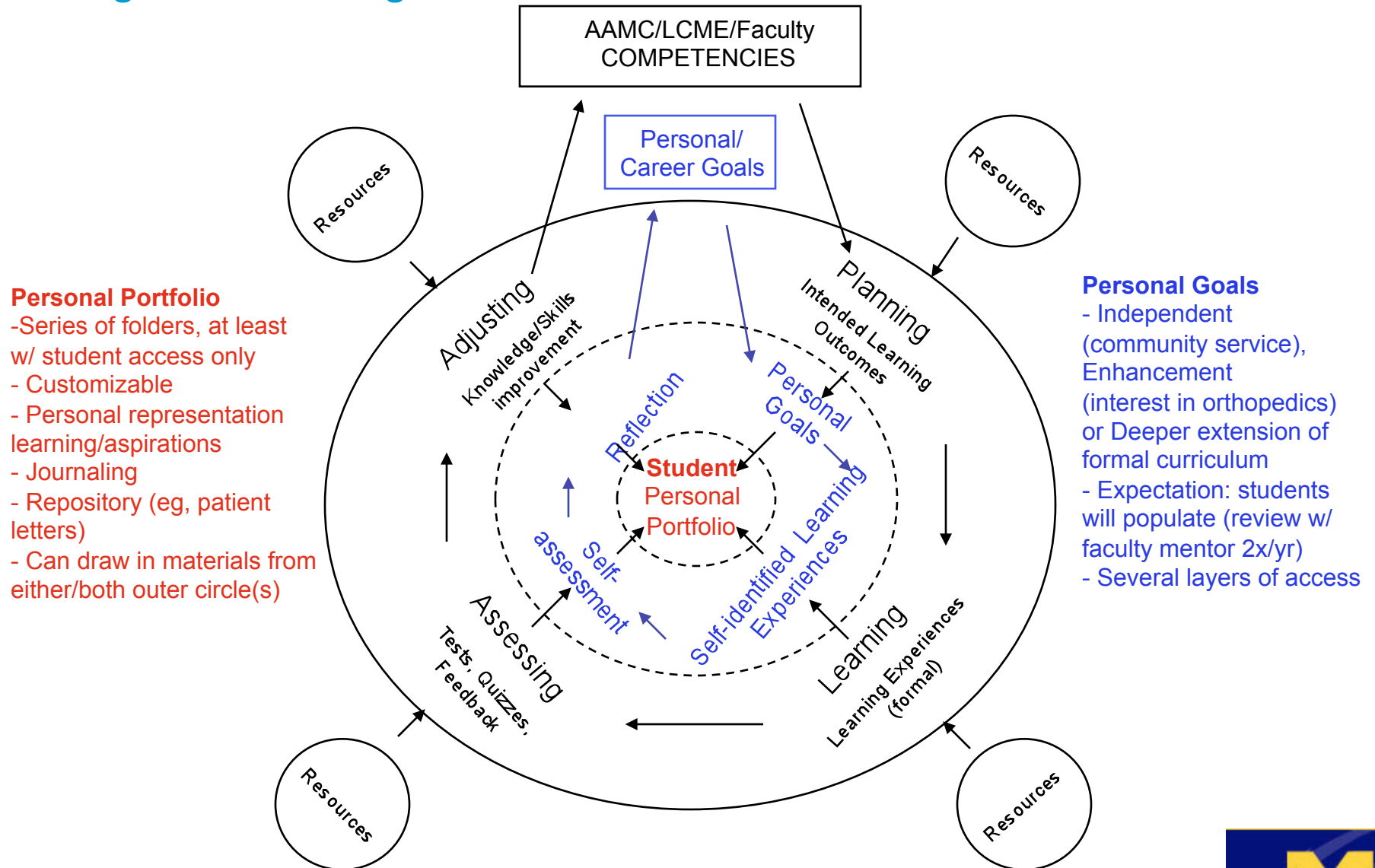
Responding to the need for tracking of competencies defined by others.



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

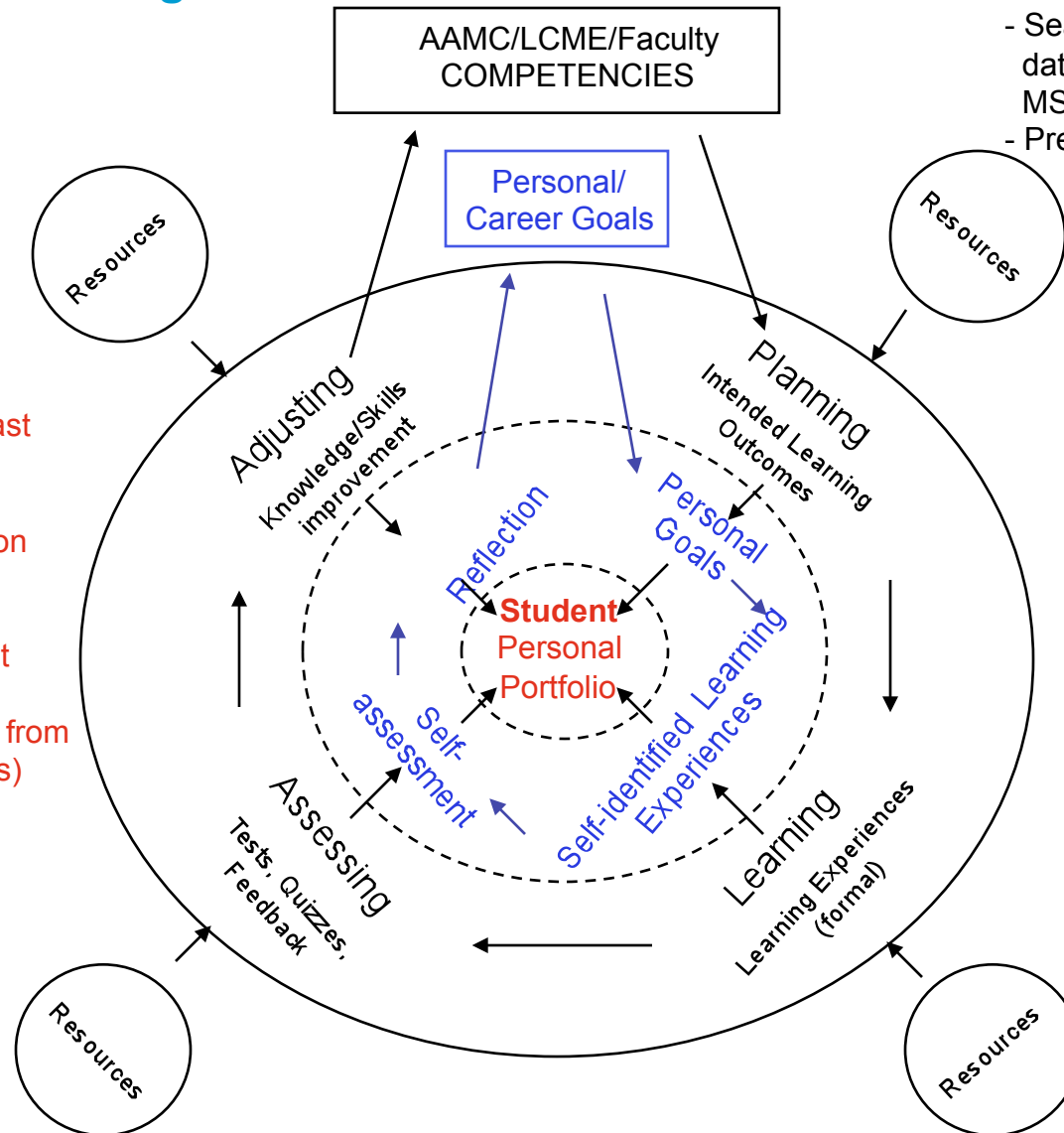
- Search engine
- Drag and drop
- Seamless access to web and databases (Sakai, Portal, MSIS/Oracle, PubMed, etc.)
- Presentation functionality

Personal Portfolio

- Series of folders, at least w/ student access only
- Customizable
- Personal representation learning/aspirations
- Journaling
- Repository (eg, patient letters)
- Can draw in materials from either/both outer circle(s)

Personal Goals

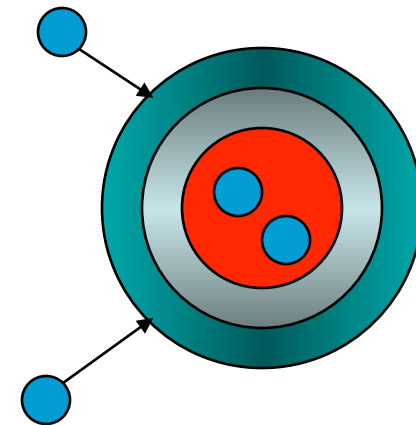
- Independent (community service), Enhancement (interest in orthopedics) or Deeper extension of formal curriculum
- Expectation: students will populate (review w/ faculty mentor 2x/yr)
- Several layers of access

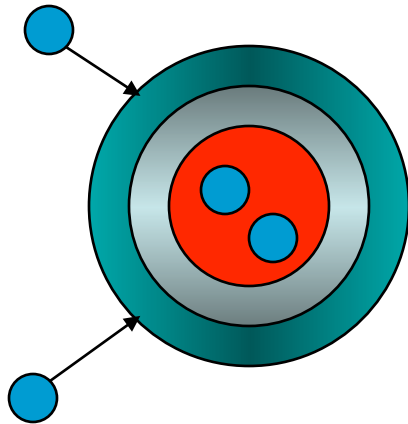


The Social Dimension

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



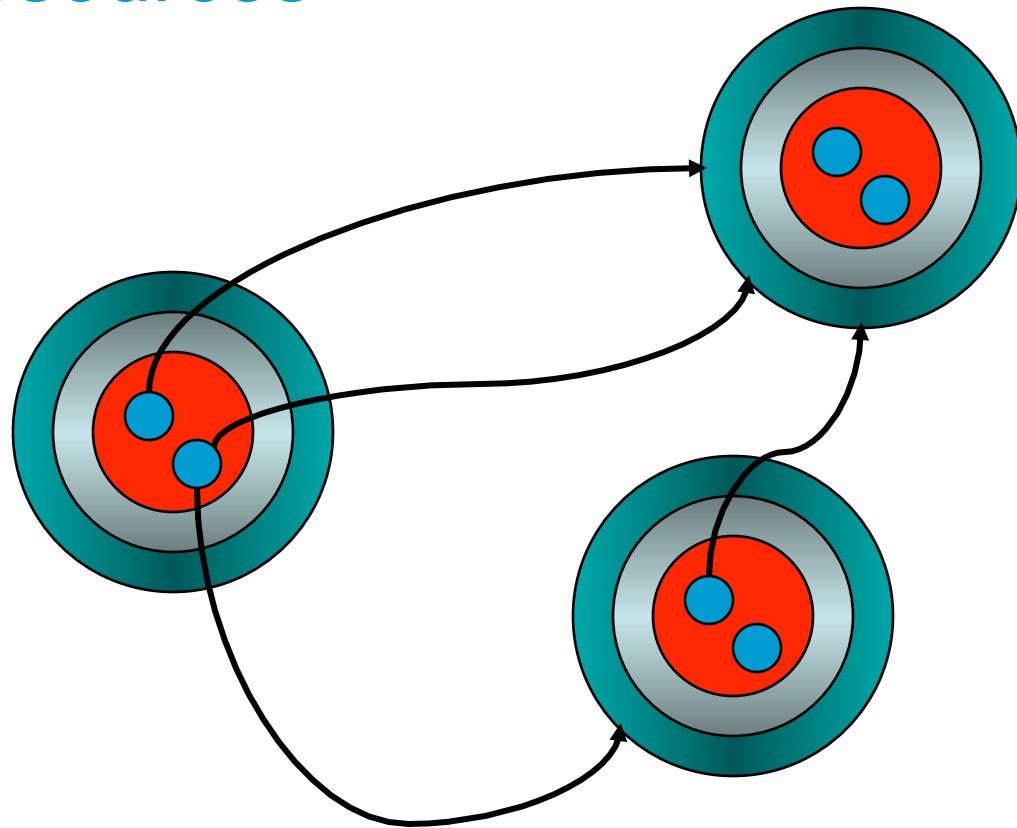


What are we doing with the resources?

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.

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What will the Student Centered Learning System look like?

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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.



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

....

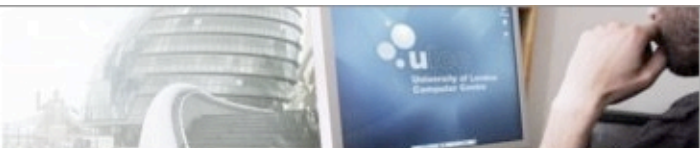
Always think “personal” not institutional. The institution has an interest - but the user interface must be personal fit institutional needs into a user-centered interface.

portfolio.evaluation.ulcc.ac.uk



University of London
Computer Centre

Portfolio Evaluation Moodle 1.9 Site



You are logged in as Charles Severance (Logout)

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

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.

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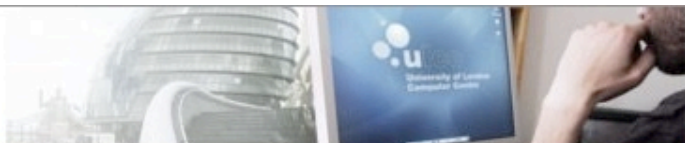
* International Association of Lasallian Universities
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Moodle Portfolio



University of London
Computer Centre

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

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Moodle Portfolio

MyStuff

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

MyStuff / Items / Manage

With selected...

[Active](#)
[Archived](#)
[Deleted](#)

No items found.			
☐	Title & tags	Form	Modified
☐			
☐			
☐			
☐			

MyStuff

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

MyStuff / Tags / Manage

☐	Tag	Tagged	Modified
☐	Copies	0	
☐	Tagless	0	
☐	documents	0	
☐	hobbies	0	
☐	life	0	
☐	links	0	


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Portfolio Evaluation
Moodle 1.9 Site

You are logged in as Charles Severance (Logout)

Elgg- It is clearly about “you”



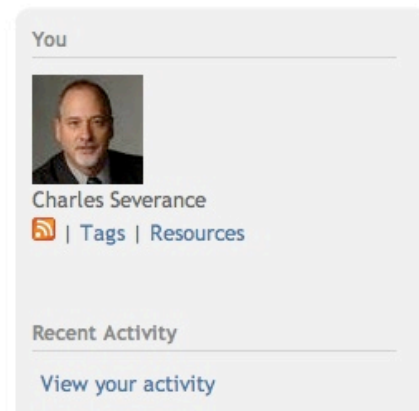
Charles Severance :: Feeds

[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:



Elgg is social software

Elgg - where you fit...

[Your Blog](#) [Your Files](#) [Your Network](#) [Your Resources](#) [Your Profile](#) [Account settings](#) [Log off](#)



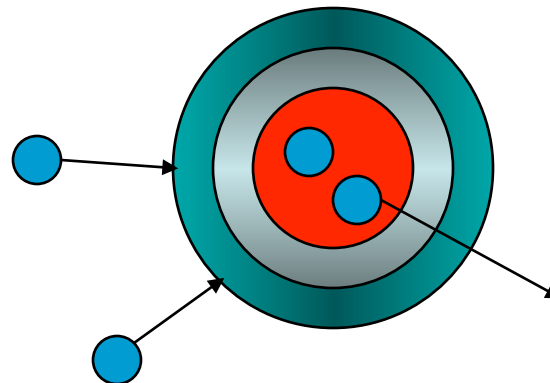
**ULCC Elgg
Evaluation Site**
Evaluation Site

-- all --
[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
 | [Tags](#) | [Resources](#)

Recent Activity
[View your activity](#)



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](#)



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Mahara - “My Portfolio”



ULCC Portfolio Evaluation Mahara 1.0.0



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

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

My Views

Create View

A VIEW

[Edit this view](#) [Delete this view](#)

[Edit view details](#)

[Edit view access](#)

Nobody can see this view

First View

[Edit this view](#) [Delete this view](#)

[Edit view details](#)

[Edit view access](#)

Nobody can see this view

2 views

Charles Severance

[Logout](#)

[Settings](#)



Search My Portfolio



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Mahara - A View



ULCC Portfolio Evaluation
Mahara 1.0.0



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[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



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[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

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Mahara - Artifacts



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[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



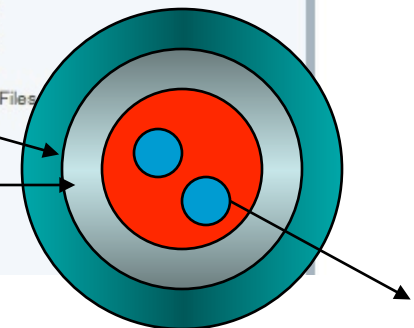
A folder
A single folder from your Files area



An image
A single image from your Files



Embedded media



Up Next-Functionality Mashup



ULCC
University of London
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ULCC Portfolio Evaluation Mahara 1.0.0

[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

Functionality/Resource Mashup

Using IMS Learning Tools Interoperability

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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

Search

Applications

Photos

Groups

Events

Marketplace

Twitter

more

Profile edit

Friends

Inbox (1)

home account privacy logout

Which Star Trek Personality Are You?



Are you a fearless leader like Captain Kirk? Or are you a crazy, hard drinking Scotsman like Chief Engineer Scotty?

Browse More Applications

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

Search ▾

Applications edit

Photos

Groups

Events

Marketplace

Twitter

more

Profile edit Friends ▾ Inbox (1) ▾

home account privacy logout

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

Which Star Trek Personality Are You?

by fVentures

f

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?](#)

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 **Santander**
UNIVERSIDADES

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LA SALLE 
Universitat Ramon Llull

Bodington / Leeds

Bodington (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



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IMS Tool Interoperability

A standard which is currently under development by IMS (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

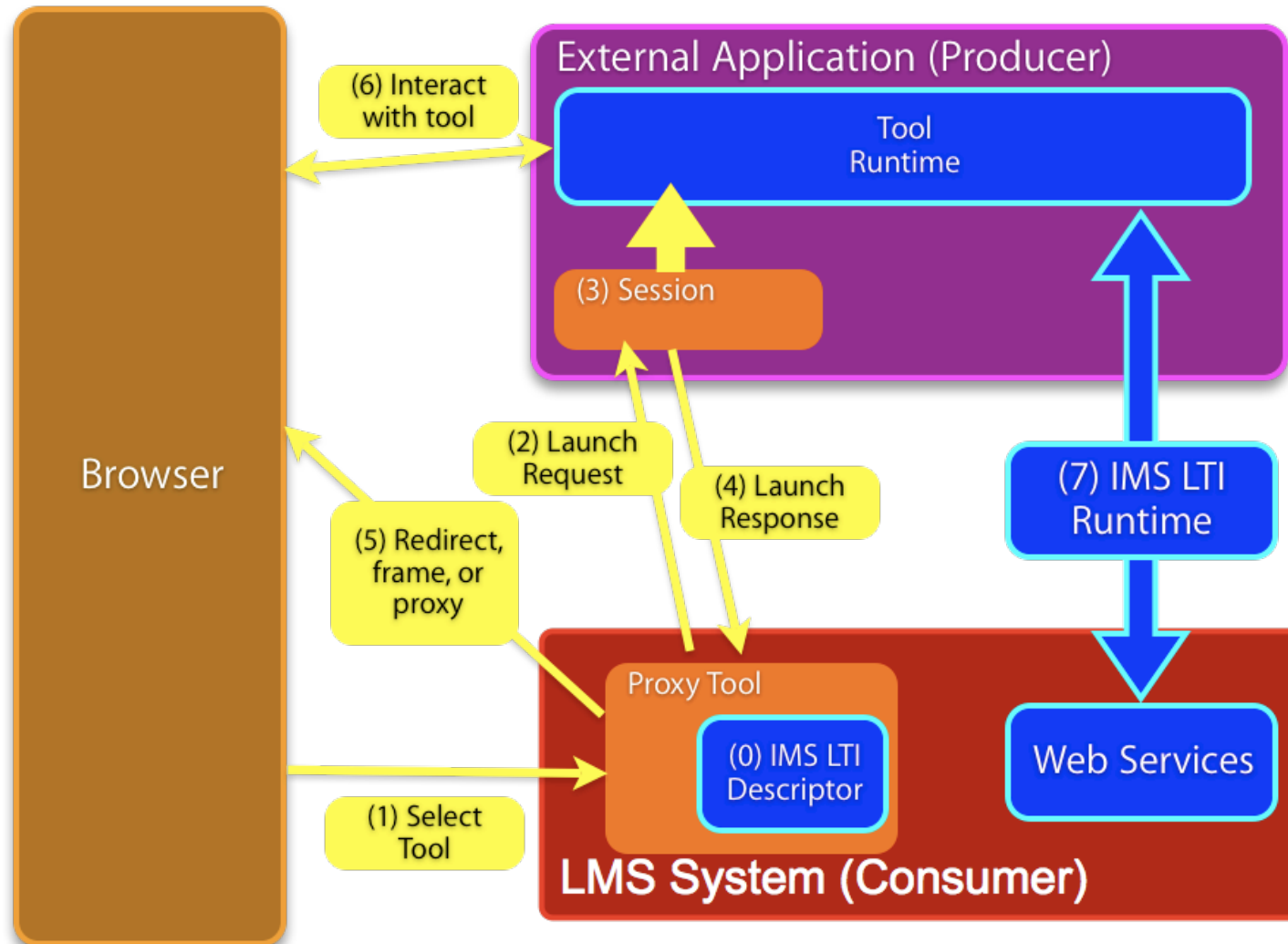


IMSTools Interoperability 1.0

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



Sakai Based Service : LTI 2.0 Test : IMS TI

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

Sakai [Logout](#)

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

Home Site Info IMS TI Help

Users present:
Sakai Administrator

IMS Tool Interoperability (JSR-168)

List of Rooms and Archives

[Create Room](#)

Title	Type	Enter	Open/Close	Remove
looksgreat	room	launch	open	delete
testroom1	room	launch	close	delete
testroom2	room	launch	close	delete

Blackboard Academic Suite

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

demo_public_al.html env BB BB1 tp InfoQ toolConfig.jsp TC_local_list WimbaWiki Google Maps Wikipedia svn Gmail zimbra

Blackboard... V2 Implemen... Live Classroo... wsd support... http://...ontext http://...ontext (Untitled)

Your Institution UNIVERSITY

Home Help Logout Developer Copy

My Institution Courses Community Services System Admin

List of Rooms and Archives

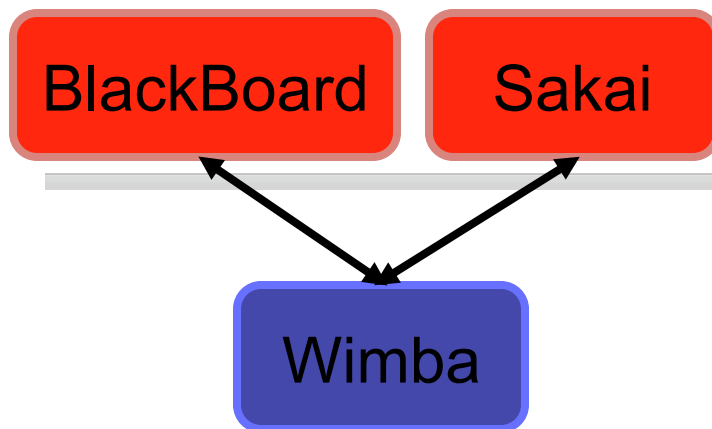
[Create Room](#)

Title	Type	Enter	Open/Close	Remove
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testroom2	room	launch	close	delete

Announcements
Course Information
Staff Information
Course Documents
Assignments
Communication
Discussion Board
External Links
Tools

Tools
Communication
Course Tools
Course Map
Control Panel
Quick Unenroll
Refresh
Detail View

Done



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**.

This site is owned by: **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)

Local

Groups in use

Group Name	Action	Delete
Remote Participants <i>RemotePart Group</i>	View/Configure	In Use
Site Owner/Co-owners <i>Local Group</i>	View/Configure	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.

GVC.SiteMaker

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

You are logged in as user: **maybaum@umich.edu**.

This site is owned by: **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

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

Group Name:
(required)

Remote Participants

Remote Participation Password:
(leave blank to deny access)

Select Style:

<Default Site Style> ▼

Use this URL in remote system:

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

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[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:

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[Logout](#)

[My Workspace](#)

[LTI 2.0](#)

[SiteMaker](#)



[View YouTube Videos](#)

[Manage YouTube Videos](#)

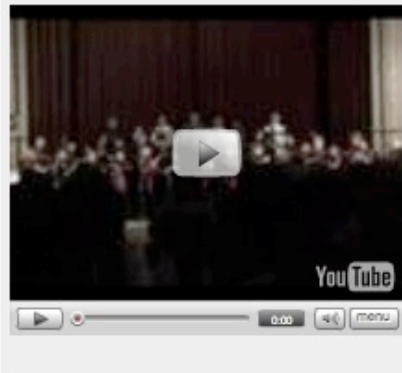
Navigate Database Table: "YouTube Videos"

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...

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IMS Learning Tools Interoperability Demonstration

IMS Learning Impact

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

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

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

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Sakai / IMS Google Summer of Code



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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

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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



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



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 during the implementation of [SoC](#) and we discussed about the chosen solution. After

Ohloh

 **pigui**
445 commits, 2 kudos

Categories

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

Tags

backups **BPM** certificate
database datalib.php DFWikiLABS
DFWikiTeam dmllib.php Drupal
Eclipse Hibernate



Jordi Piguillem Poch / Marc Alier

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Sakai / IMS Google Summer of Code

Currently Evaluating Student Applications

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



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Coming back to earth...

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

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

Institution

Sakai



Student

facebook



Teacher

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Campus Project

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



Campus Project

Open University of Catalonia

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



Campus Project

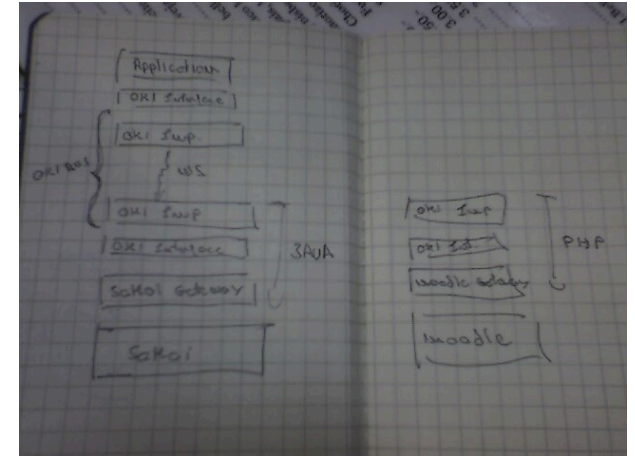
Proxy Tool Pattern

OKI Bus as Middleware

Service Oriented Architecture

Includes cross-deployment and configuration

Funding by Catalan Government



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MyCamTools - Cambridge University

Adding a Student-Centered View to Sakai



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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  

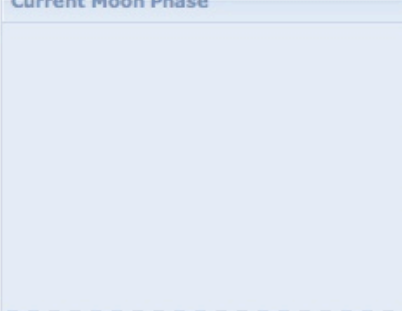
This will also search within file content

My Courses and Projects  

★ Personal Tools
★ CARET

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

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 --- 

Please use the Announcements tool for more options

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](#)

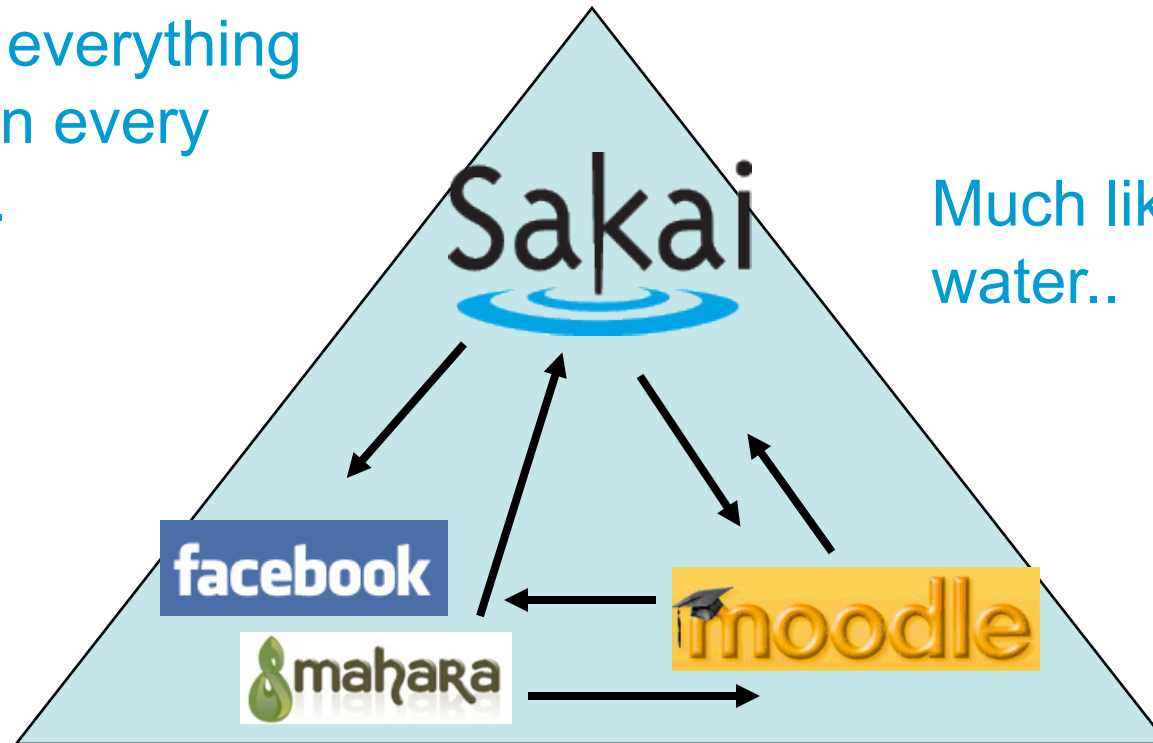
In reality everything
is going in every
direction.

Institution

Sakai

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

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Gràcies per la vostra atenció.

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