

Sakai

Dr. Charles Severance

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

What is Sakai?

- A **project**—an initial grant for two years
- A **community**—an emerging group of people and resources supporting the code and each other, realizing large scale Open Source efficiencies in HigherEd
- An extensible **framework** for building collaborative—provides basic capabilities to support a wide range of tools and services—teaching and research
- A **product** with:
 - A released bundle of the **framework** and
 - A set of **tools**—written and supported by various groups and individuals—which have been tested and released as a unit

The Sakai Project

Funding and Initial Institutional Partners

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

The Sakai Project

The University of Michigan, Indiana University, MIT, Stanford, the uPortal Consortium, and the Open Knowledge Initiative (OKI) are joining forces to integrate and synchronize their considerable educational software into a *pre-integrated collection of open source tools*.



Sakai Project receives \$2.4 million grant from Mellon

Sakai Funding

- Each of the 4 Core Universities Commits
 - 5+ developers/architects, etc. under Sakai Board project direction for 2 years
 - Public commitment to implement Sakai
 - Open/Open licensing—“Community Source”
- So, overall project levels
 - \$4.4M in institutional staff (27 FTE)
 - \$2.4M Mellon, \$300K Hewlett
 - Additional investment through partners

Thursday, January 22, 2004

4 Colleges Collaborate on Open-Source Courseware

By [ANDREA L. FOSTER](#)

In what may be a big threat to commercial providers of course-management systems, four universities have announced a \$6.8-million collaborative venture to create open-source courseware tools and related software for higher-education institutions.

The universities developing the system, called the Sakai Project, are the Indiana University system, the Massachusetts Institute of Technology, Stanford University, and the University of Michigan at Ann Arbor, which will lead the effort.

HEADLINES

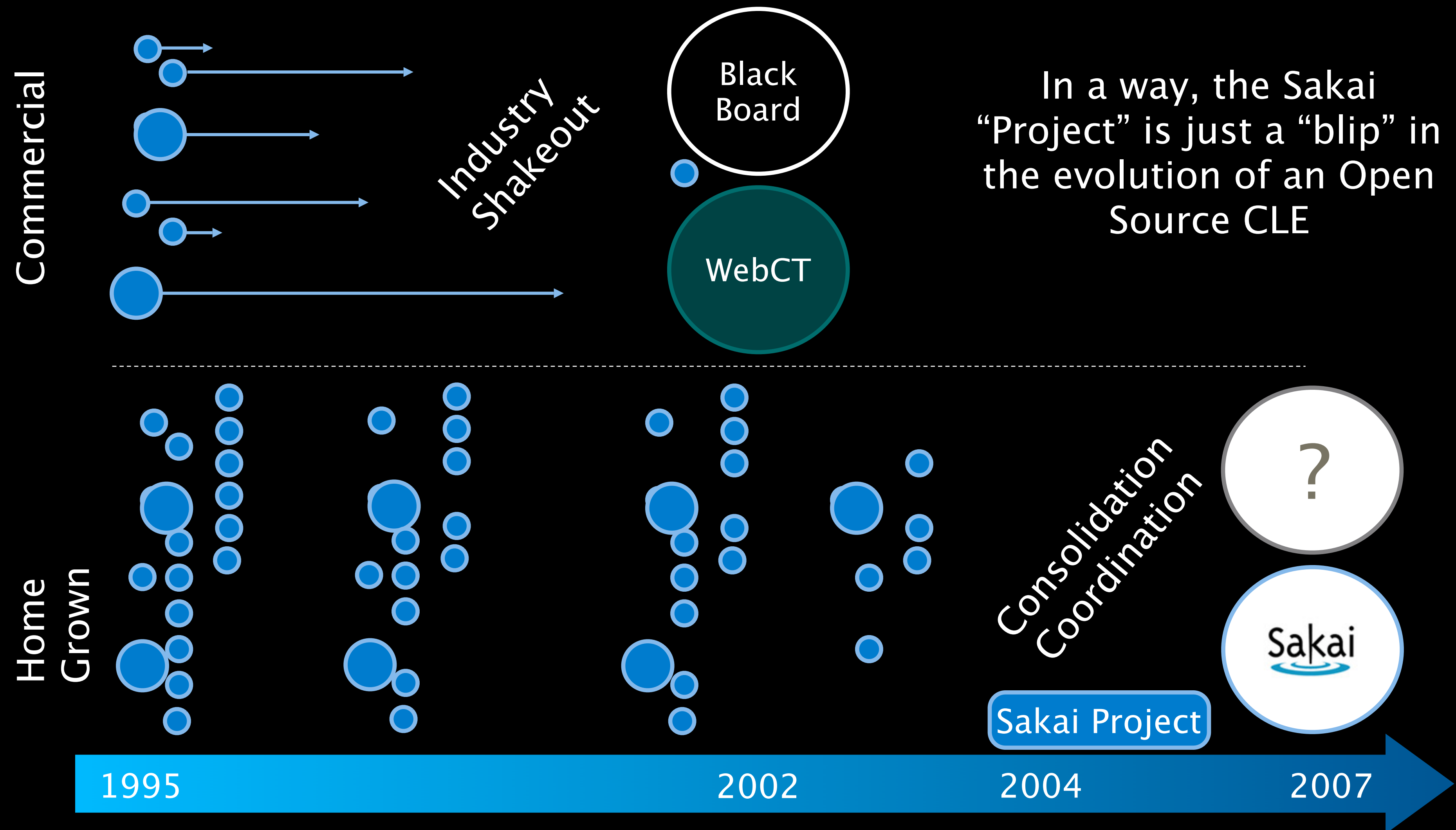
[Bush proposes](#) \$250-million job-training program in visits to community colleges

[U. of Pennsylvania](#) to name Amy Gutmann of Princeton as its new president

[Record companies](#) sue 532 computer users, accusing them of illegally sharing songs

[4 colleges](#) collaborate on open-source courseware

Consolidation

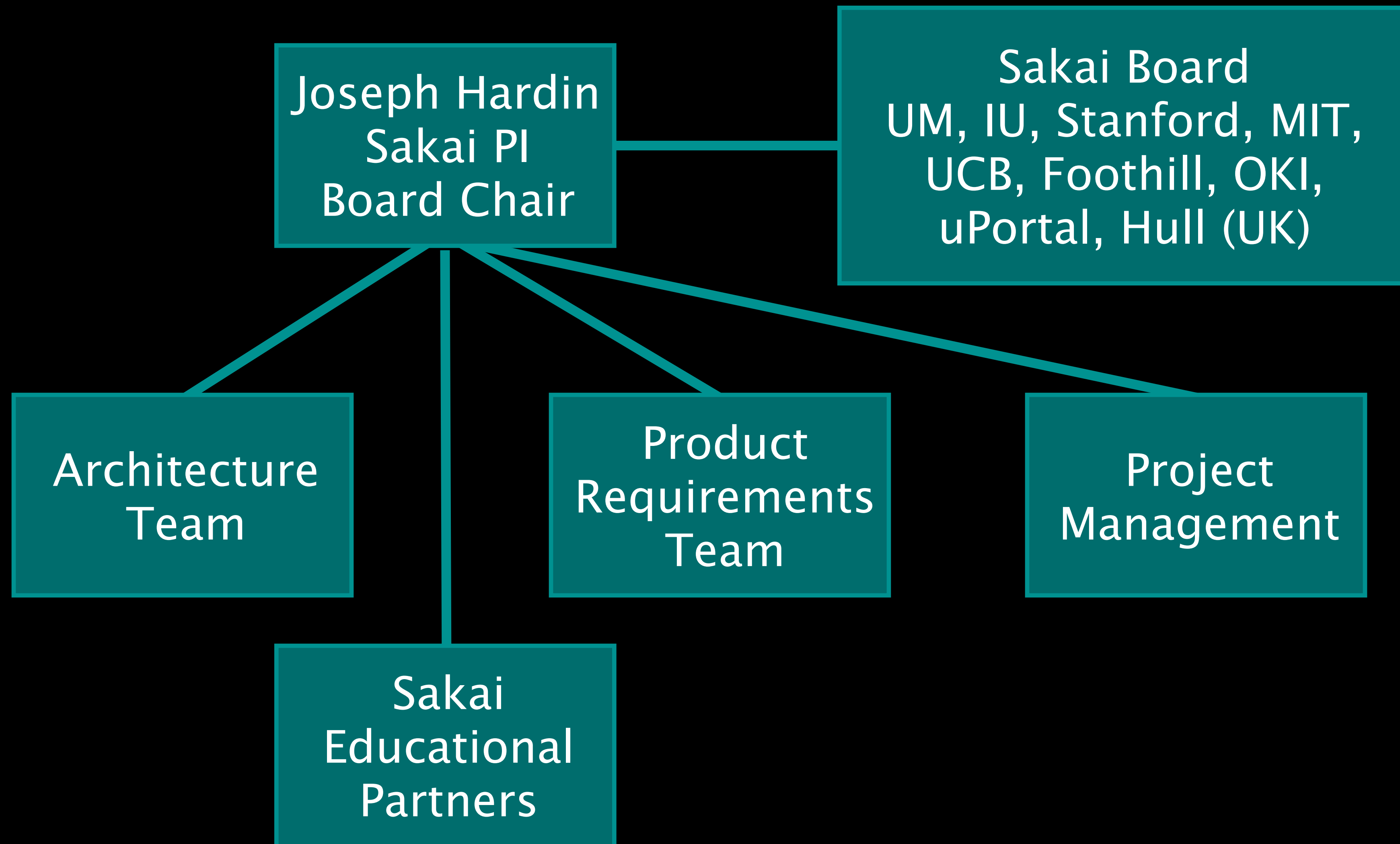


The Sakai Community

Close coordination for two years to quickly
build the critical mass for open source
enterprise Collaborative Learning Environment

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

Sakai Project Organization

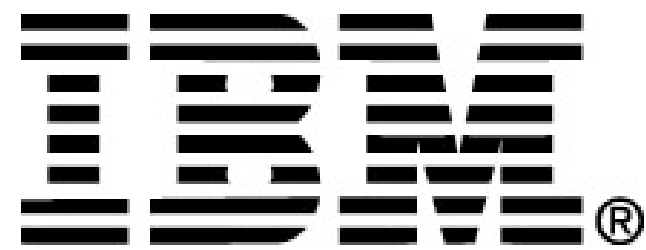


Sakai Educational Partners—Feb 1, 2005

Arizona State University
Boston University School of Management
Brown University
Carleton College
Carnegie Foundation for Advancement of Teaching
Carnegie Mellon University
Coastline Community College
Columbia University
Community College of Southern Nevada
Cornell University
Dartmouth College
Florida Community College/Jacksonville
Foothill-De Anza Community College
Franklin University
Georgetown University
Harvard University
Johns Hopkins University
Lubeck University of Applied Sciences
Maricopa County Community College
Monash University
Nagoya University
New York University
Northeastern University
North-West University (SA)
Northwestern University
Ohio State University
Portland State University
Princeton University
Roskilde University (Denmark)
Rutgers University
Simon Fraser University
State University of New York

Stockholm University
SURF/University of Amsterdam
Tufts University
Universidad Politecnica de Valencia (Spain)
Universitat de Lleida (Spain)
University of Arizona
University of California Berkeley
University of California, Davis
University of California, Los Angeles
University of California, Merced
University of California, Santa Barbara
University of Cambridge, CARET
University of Cape Town, SA
University of Colorado at Boulder
University of Delaware
University of Hawaii
University of Hull
University of Illinois at Urbana-Champaign
University of Melbourne, Australia
University of Minnesota
University of Missouri
University of Nebraska
University of Oklahoma
University of Texas at Austin
University of Toronto, Knowledge Media Design Institute
University of Virginia
University of Washington
University of Wisconsin, Madison
Virginia Polytechnic Institute/University
Whitman College
Yale University

Sakai Commercial Affiliates



The Sakai Educational Community License is BSD-like and allows complete flexibility in terms of the creation of and licensing of derivative works.

This allows different commercial companies to interact in different ways without any limitations imposed by license.

Sakai Meetings

- Provide a forum for the core and the SEPP to interact and for the SEPP members to interact with one another
 - June 2004—Denver Colorado (180) (Members only)
 - December 2004—New Orleans (200+) (Members only)
 - June 8–14—Baltimore (450) (Public)
 - Community Source Week
 - uPortal, Sakai, OSPI
 - December TBD—Austin, TX (Public)

Sakai's Future

- Initial grant ends December 2005
- Transition to Community Source
 - The SEPP is renamed “Sakai” (1–2 Million/year)
 - Governance is merit-based (like Apache)
 - Core elements of Sakai software are pretty stable
 - Small Community funded team (~10) to keep the core maintained and slowly evolving
 - Most new development will be done outside of the core
 - Significant continued in-kind resources Michigan, Indiana, Yale, Foothill, Stanford, and Berkeley

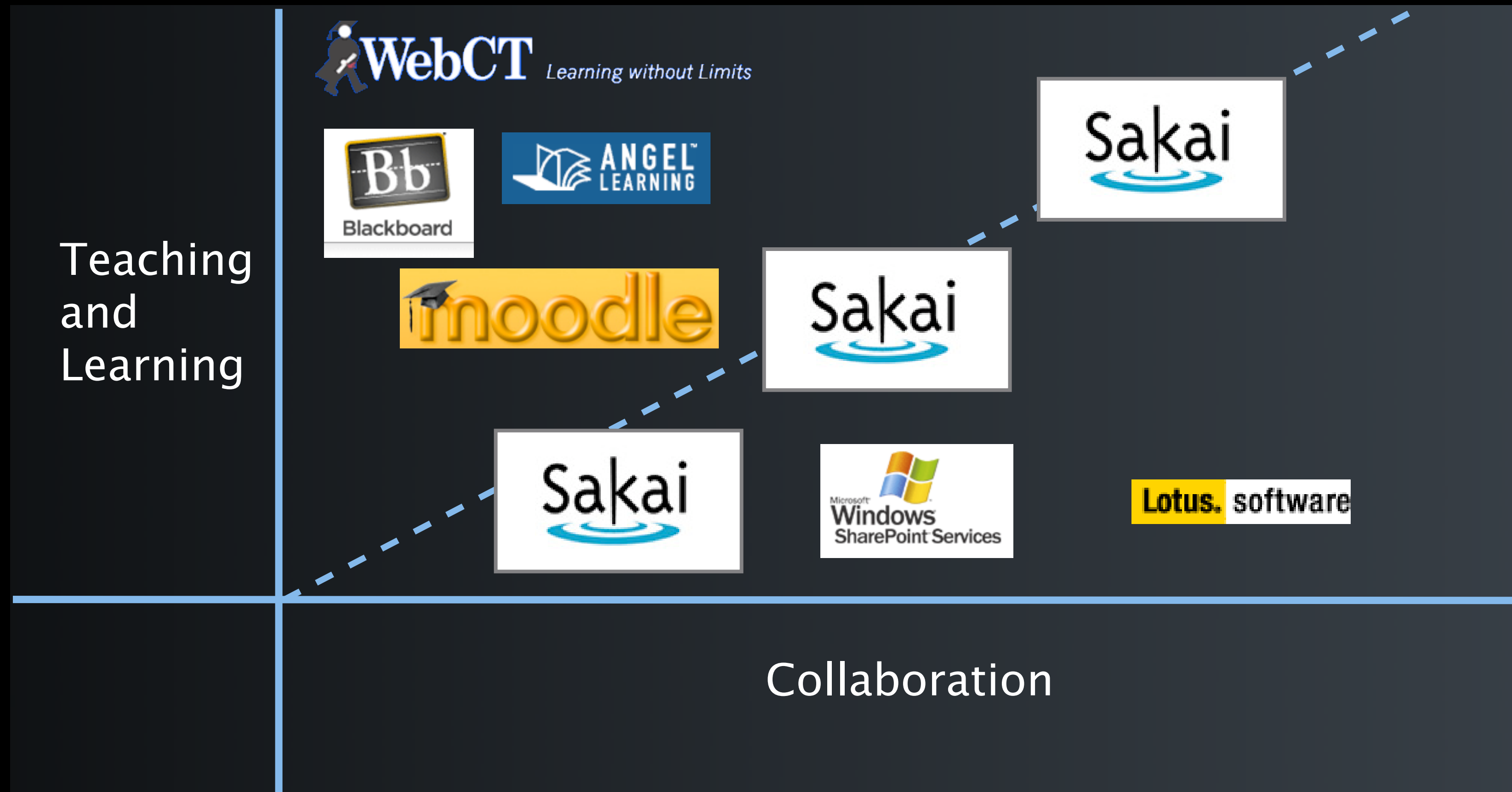
The Sakai Product

A Collaborative Learning Environment—
Suitable for use in teaching and learning,
research collaboration, and ad Hoc group
communication

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

Placing the Sakai Product

A Collaboration and Learning Environment



Sakai Releases

Enterprise Quality Teaching and Learning and
Collaboration



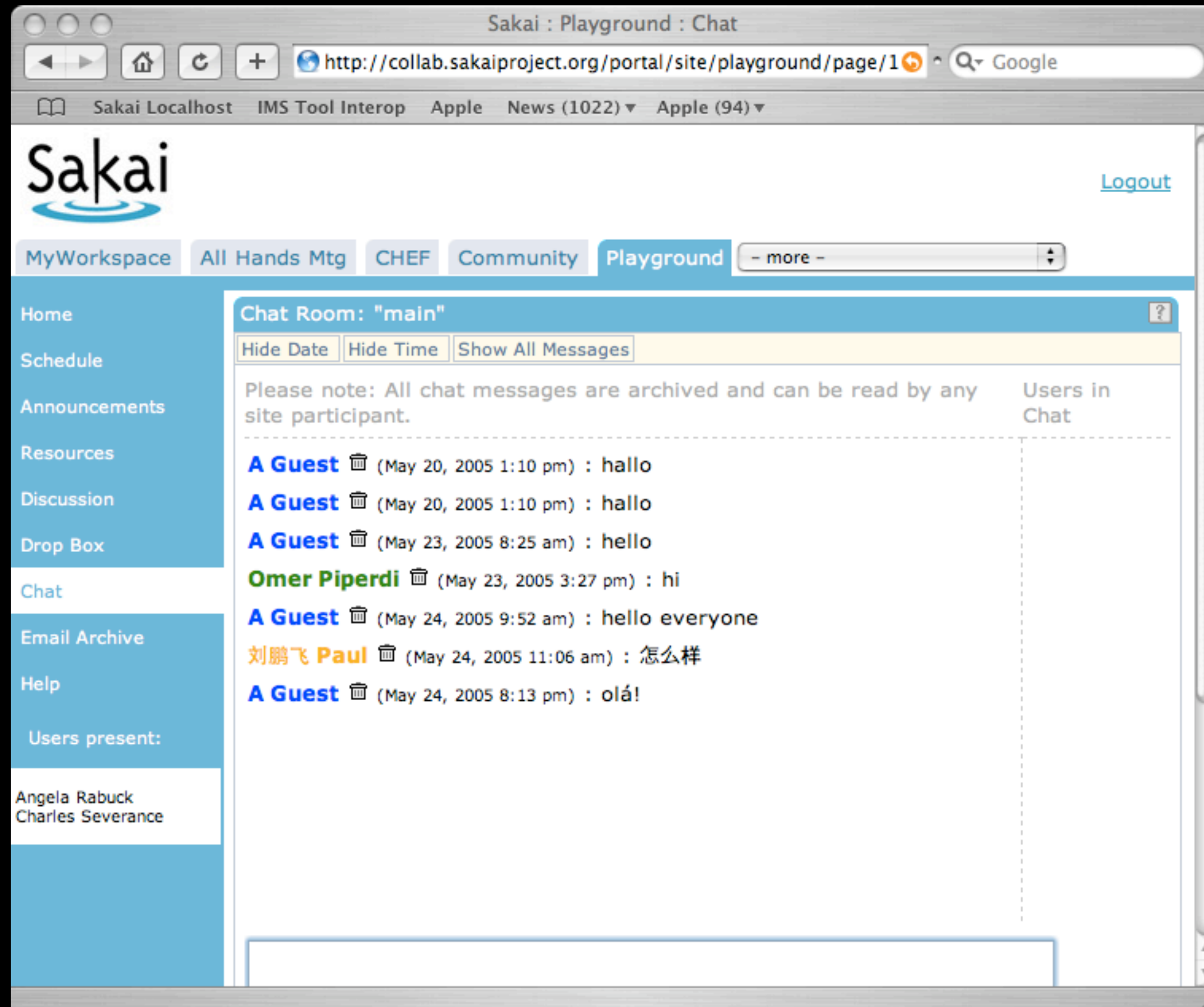
Jan 2004

Jan 2005

Jan 2006

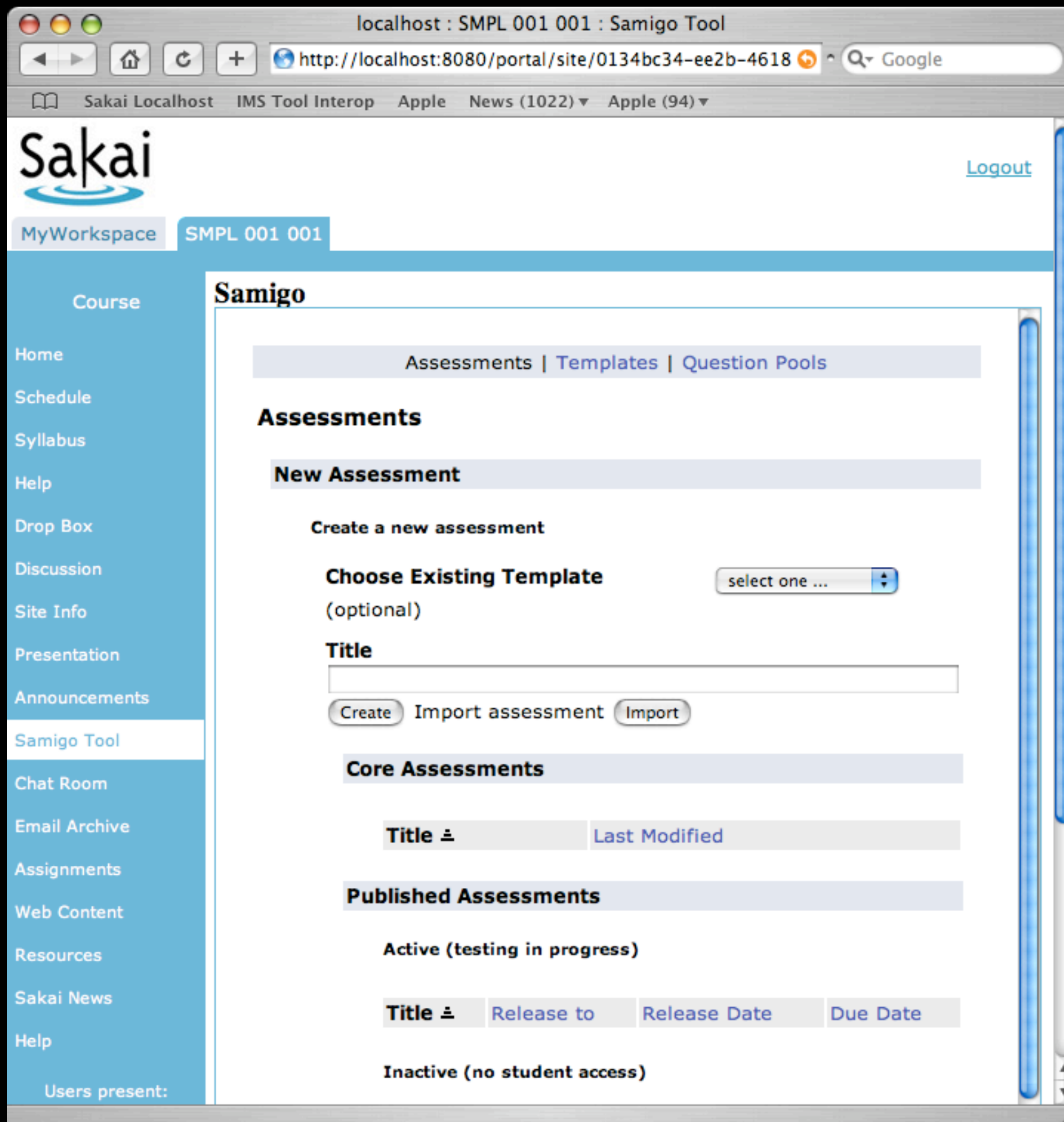
■ Collaboration ■ Teaching and Learning ■ Enterprise “suitability”

Sakai 1.0 Tools



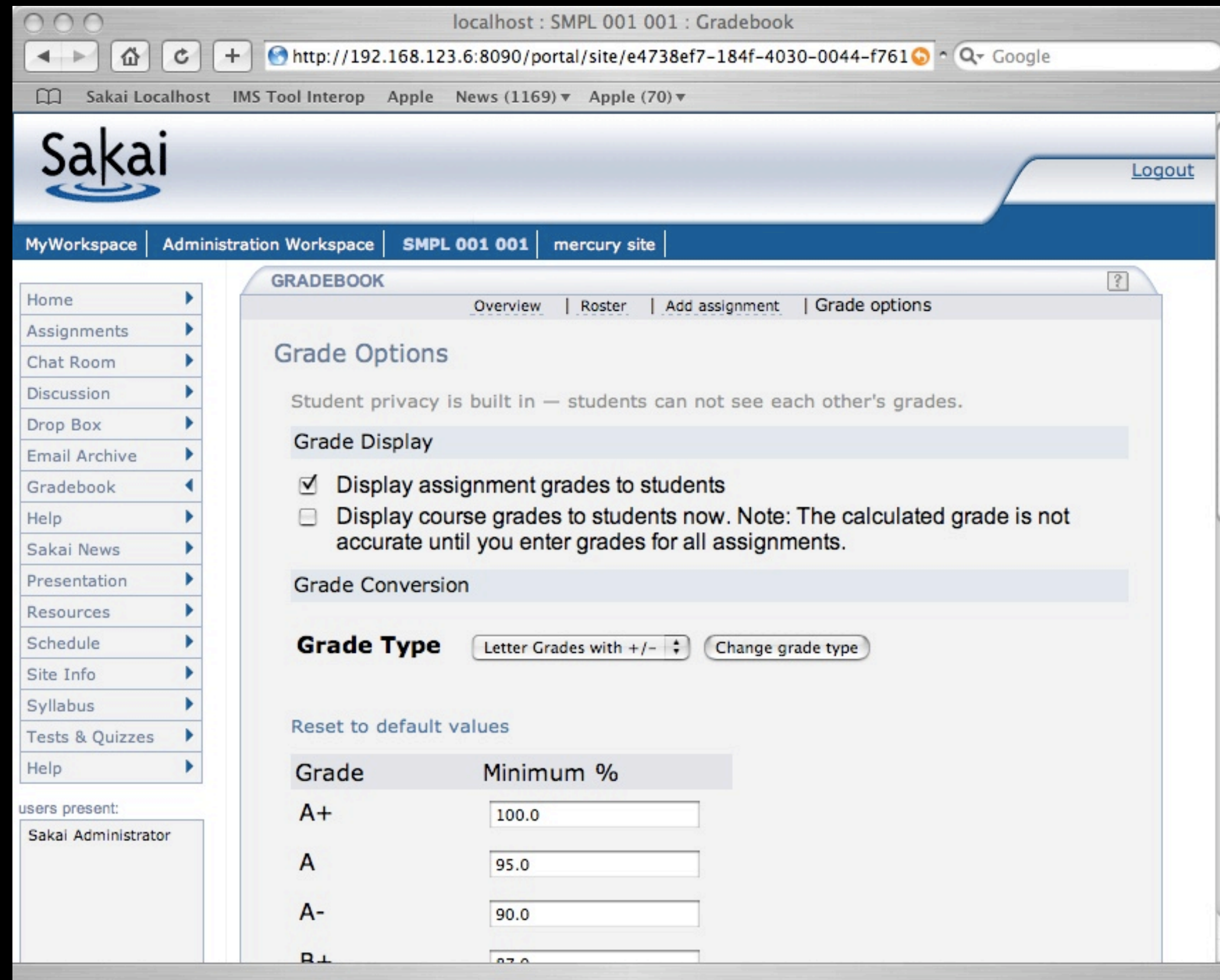
- Announcements
- Assignments
- Chat Room
- Threaded Discussion
- Drop Box
- Email Archive
- Message Of The Day
- News/RSS
- Preferences
- Resources
- Schedule
- Web Content
- Worksite Setup
- WebDAV

Sakai 1.5 Tools

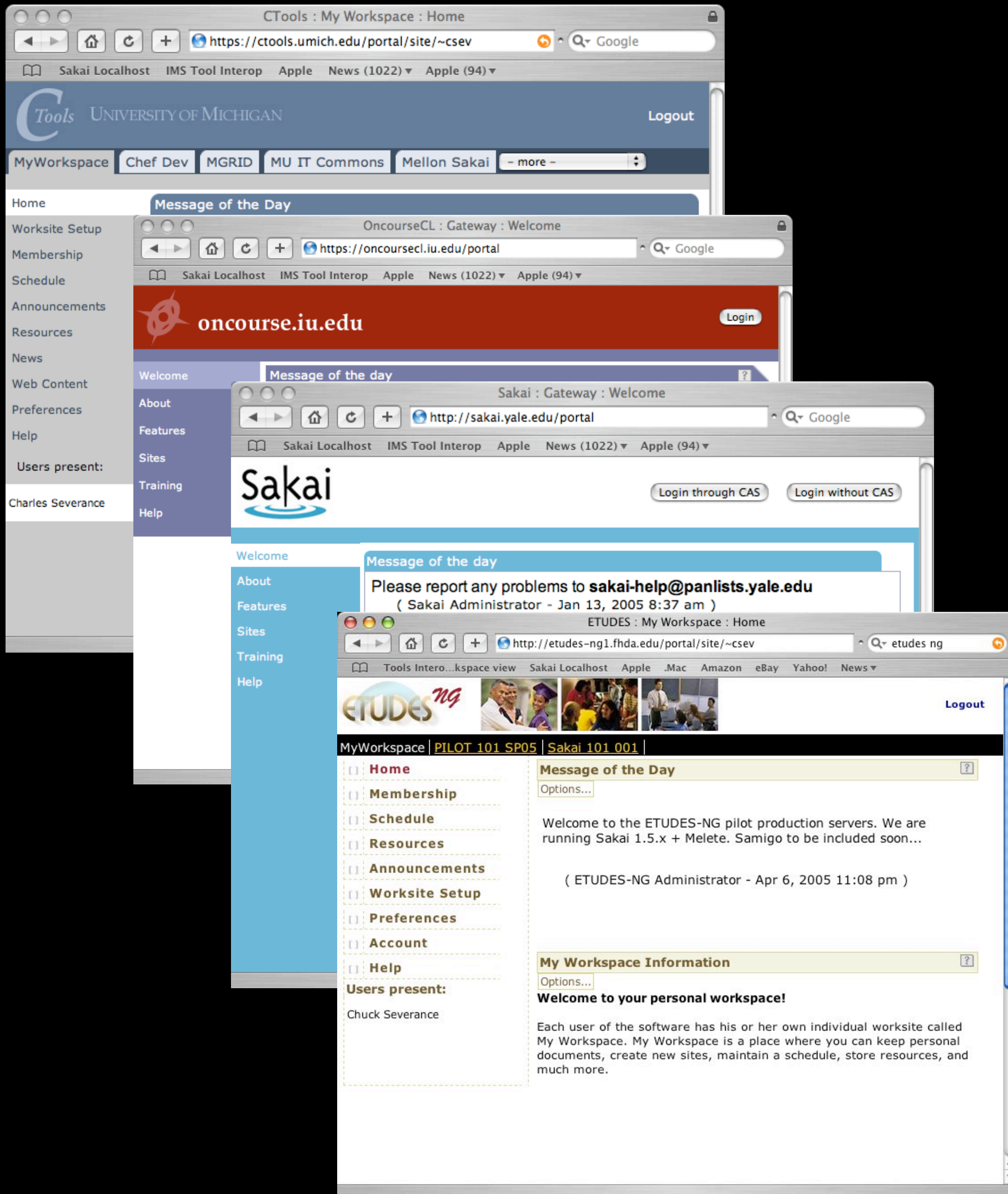


- Samigo—QTI compliant assessment engine (Stanford)
- Syllabus Tool (Indiana)
- Context Sensitive Help (Indiana)
- Presentation Tool (SEPP)
- Portfolio Tool—OSPI (R-Smart) (separate release)

Sakai 2.0 Tools



- Completely re-written Kernel (UM / MIT)
- Melete—Online classroom—lesson editor (Foothill)
- Profile Tool (Indiana)
- Grade Book (UC Berkeley/ MIT)



Sakai in Production

- University of Michigan
 - September 2004
- Indiana University
 - January 2005
- Yale University
 - January 2005
- Etudes/Foothill
 - April 2005

Sakai Adoption Plans



- Boston University School of Management
- Carleton
- Columbia University
- Johns Hopkins University
- Lueck University of Applied Sciences, Germany
- Massachusetts Institute of Technology
- Northwestern University
- Stanford University
- University of California, Berkeley
- University of California, Los Angeles
- University of California, Merced
- University of Cape Town, SA
- University Fernando Pessoa, Portugal
- University of Lleida, Spain
- University of Missouri
- University of Virginia
- Whitman College



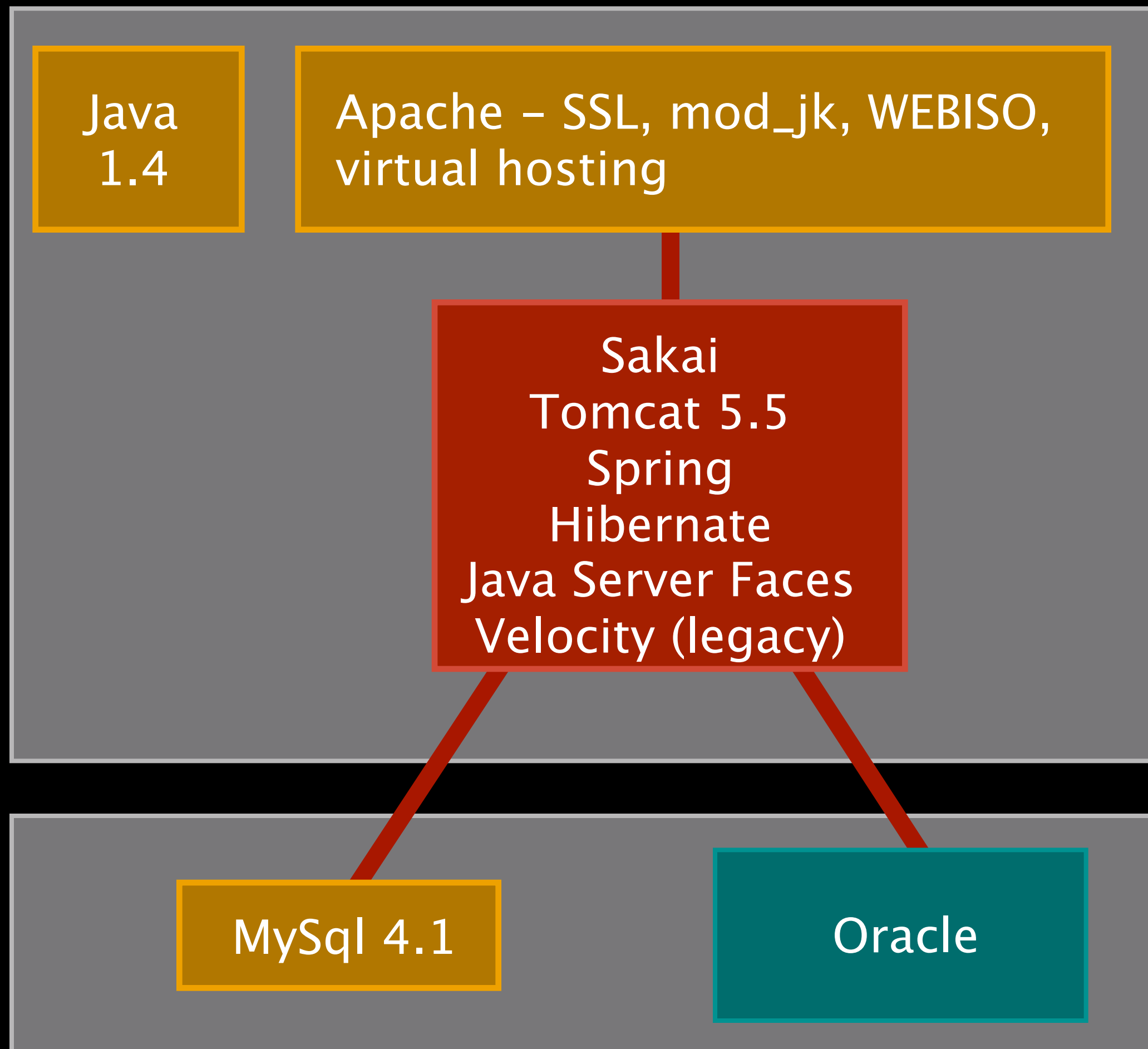
Type "Sakai Adoption Plans" into Google

The Sakai Framework

The need to satisfy the often conflicting goals of ease of use, ease of expansion, configuration flexibility, environmental portability and rock-solid production reliability suitable for enterprise deployment.

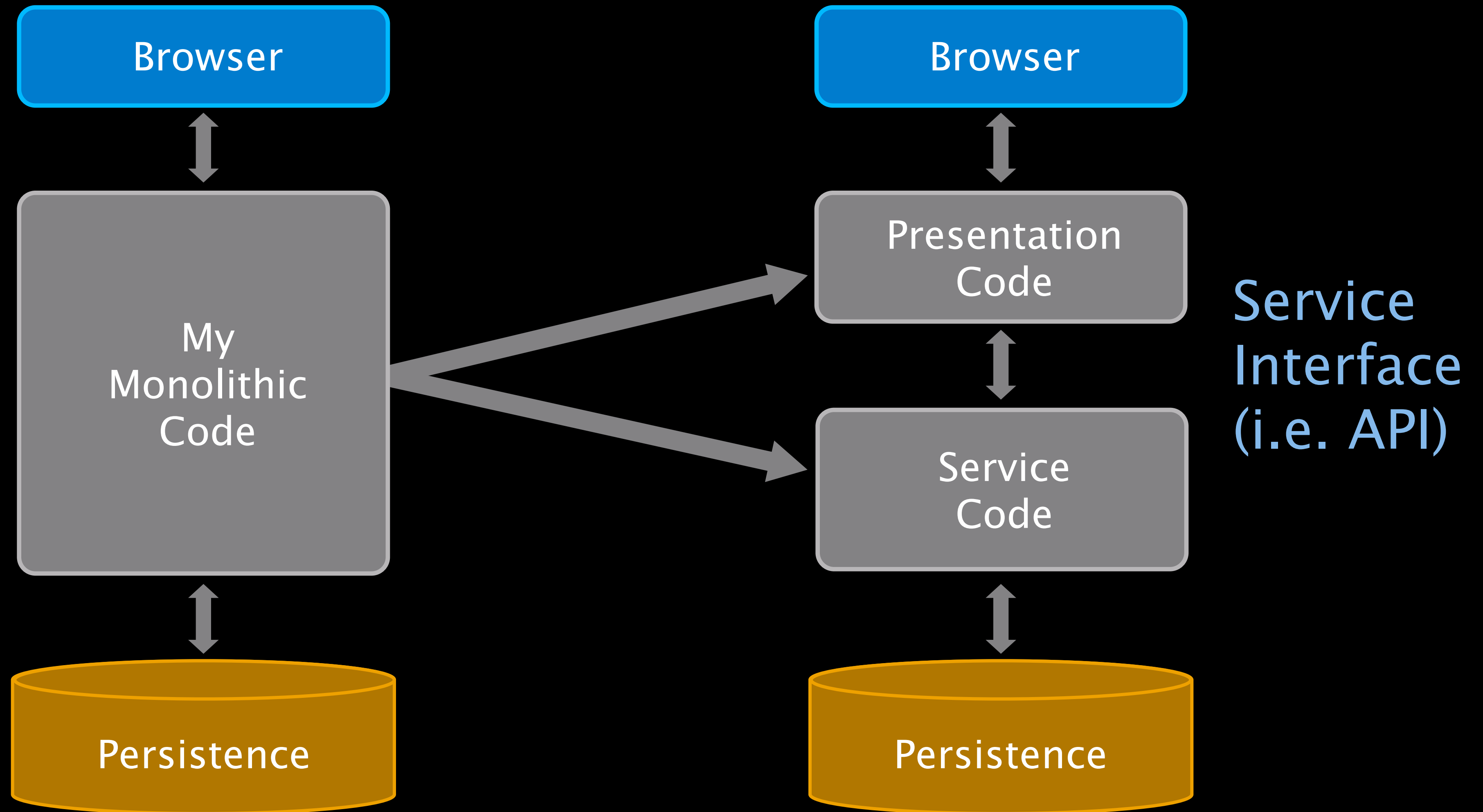
<http://www.sakaiproject.org/>

Sakai Foundational Technologies

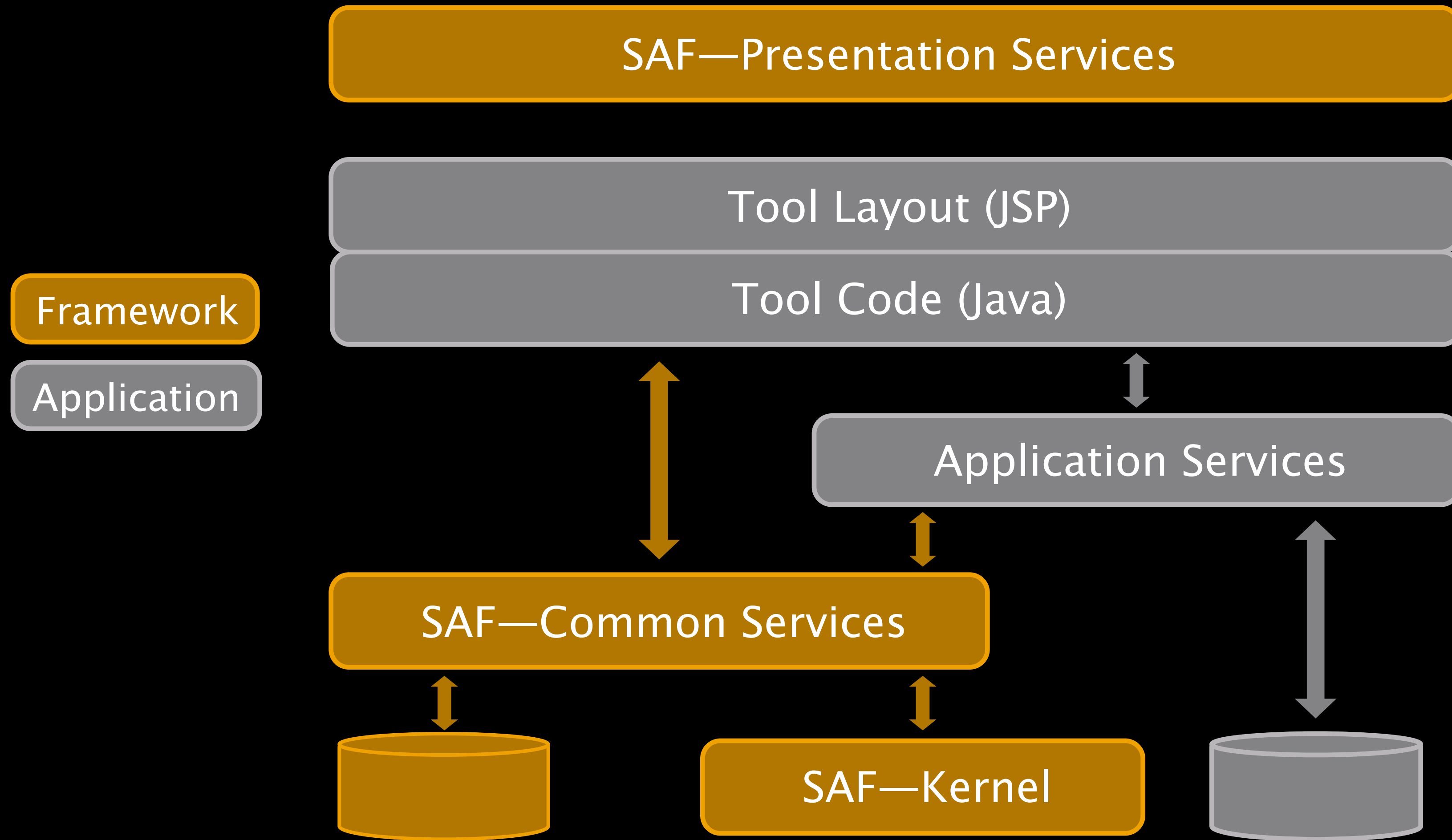


Sakai consists of technologies chosen to be common in Java Enterprise Environments.

Service Oriented Architecture



Sakai Application Framework



Sakai Presentation Services

```
<sakai:view_container title="{msgs.sample_title}">
```

```
<sakai:tool_bar> <sakai:tool_bar_item/> </sakai:tool_bar>
```

Sample

Continue

Please enter some information

Information

Name:

date JUN 22 2004

Continue

```
<sakai:instruction_message  
value="{msgs.sample_one_instructions}" />
```

```
<sakai:group_box  
title="{msgs.sample_one_groupbox}">
```

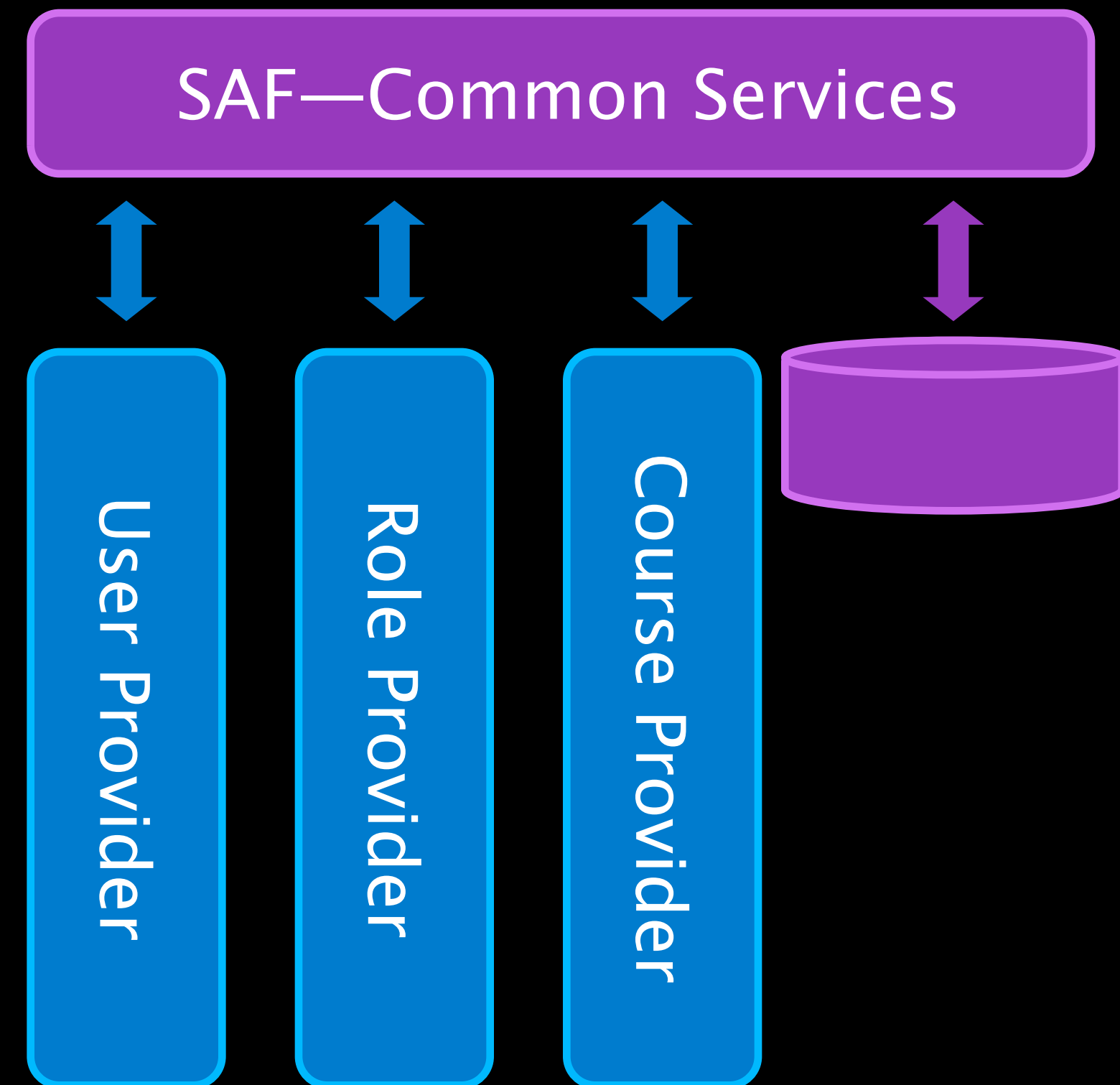
```
<h:inputText  
value="{MyTool.userName}" />
```

```
<sakai:date_input  
value="{MyTool.date}" />
```

```
<sakai:button_bar>  
  <sakai:button_bar_item action="#  
{MyTool.processActionDoIt} value="#  
{msgs.sample_one_cmd_go}" />  
</sakai:button_bar>
```

Sakai Service Providers

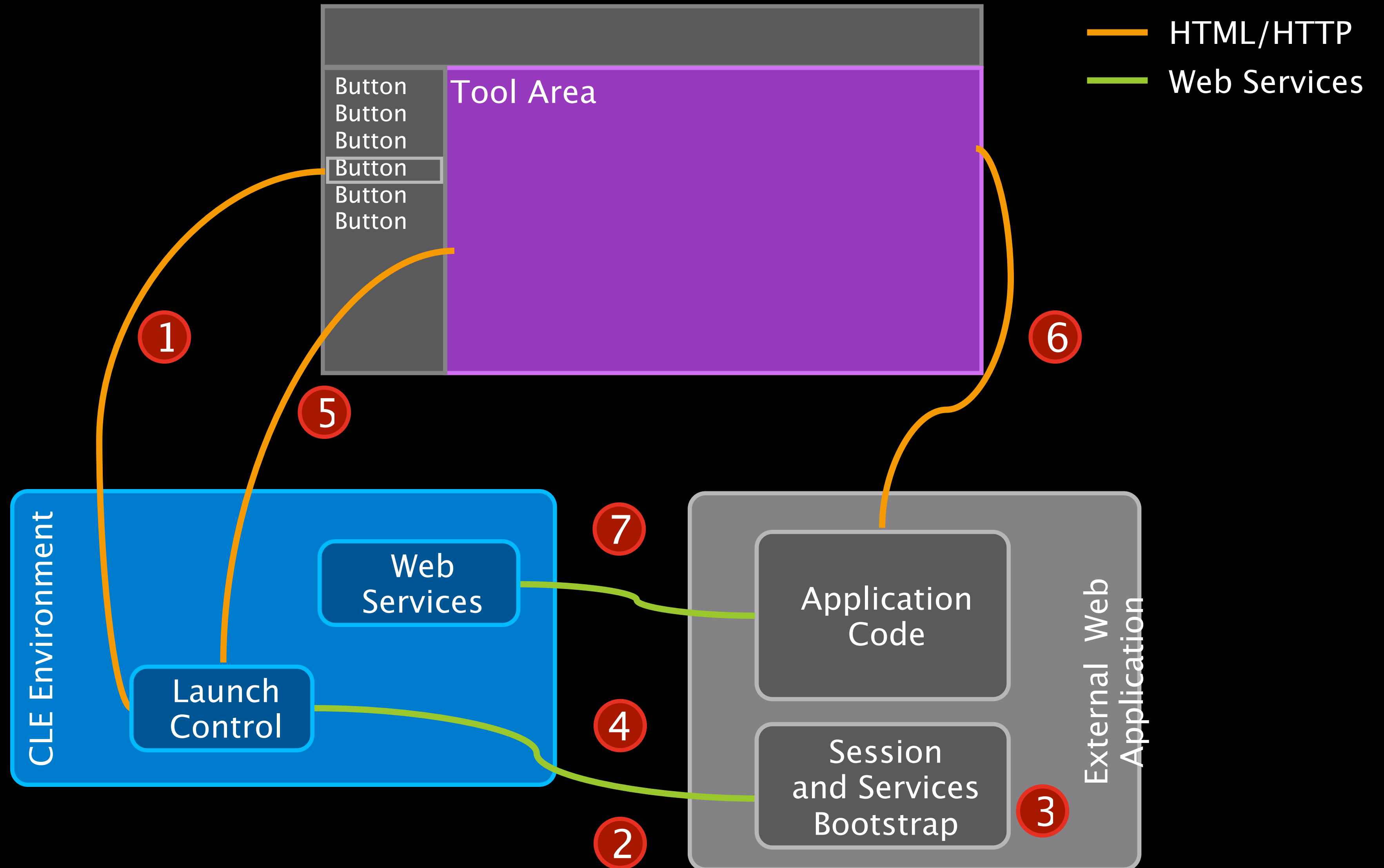
- Common Services are localized using Plug-Ins
 - UserDirectoryProvider
 - RealmProvider
 - CourseManagementProvider
- These will be expanded
 - OKI OSID Based Providers
- Plug-Ins do not replace the persistence, they are consulted in order to populate Sakai structures



IMS Tool Portability Group

- To work on ‘interoperability’ between and among CMS’s/CLE’s
- Focus is on making tools portable between systems (Sakai, WebCT, and Blackboard)
- Established to further the discussion with commercial and other CMS/CLE providers
- Will use web services and IFRAMES
- Demonstration at the June 2005 Alt-I-lab with several applications working identically in Sakai, WebCT, Moodle and Blackboard

Sakai, IMS, and Web Services



Sakai: More Information and Next Steps

- Main site: www.sakaiproject.org
 - Bugs: bugs.sakaiproject.org
- Sakai-wide collaboration area
 - collab.sakaiproject.org
 - sakai-dev@sakaiproject.org
 - sakai-user@sakaiproject.org
- My talks
 - <http://www.dr-chuck.com/talks.php>