

Software to Fit T&L Practices

Charles Severance

Sakai Project

University of Michigan

www.dr-chuck.com



Sakai Project Summary

- Building Open Source Collaboration and Learning Environment (CLE)
- Indiana, MIT, U. Michigan, Stanford, Berkeley, Foothill
- Funded from Mellon Foundation through 2005
- Releases 1.0 10/04, 1.5 1Q05, 2.0 2Q05
- Goal: Version 2.0 will be comparable to commercial offerings

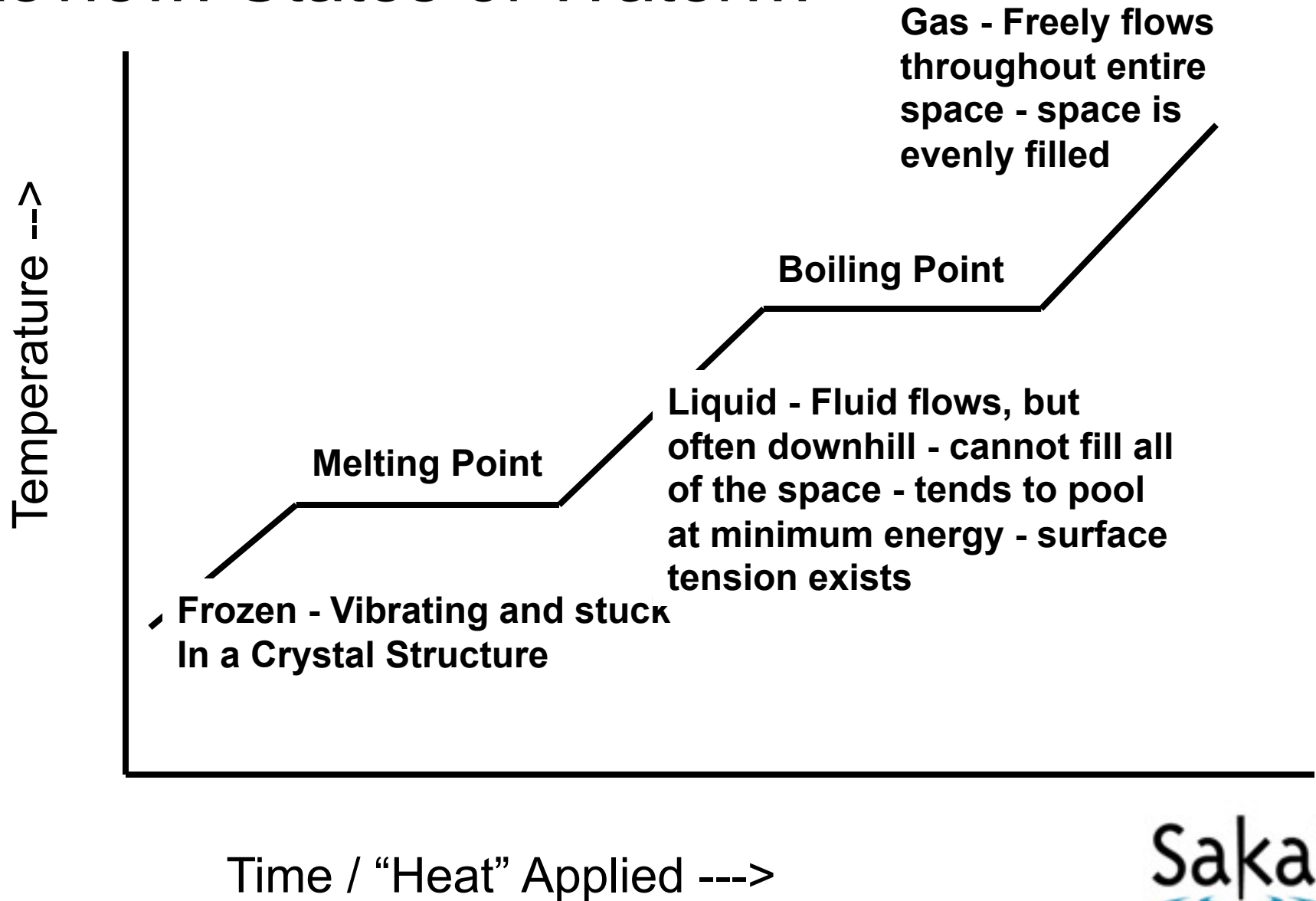


Sakai's Goals (per Chuck)

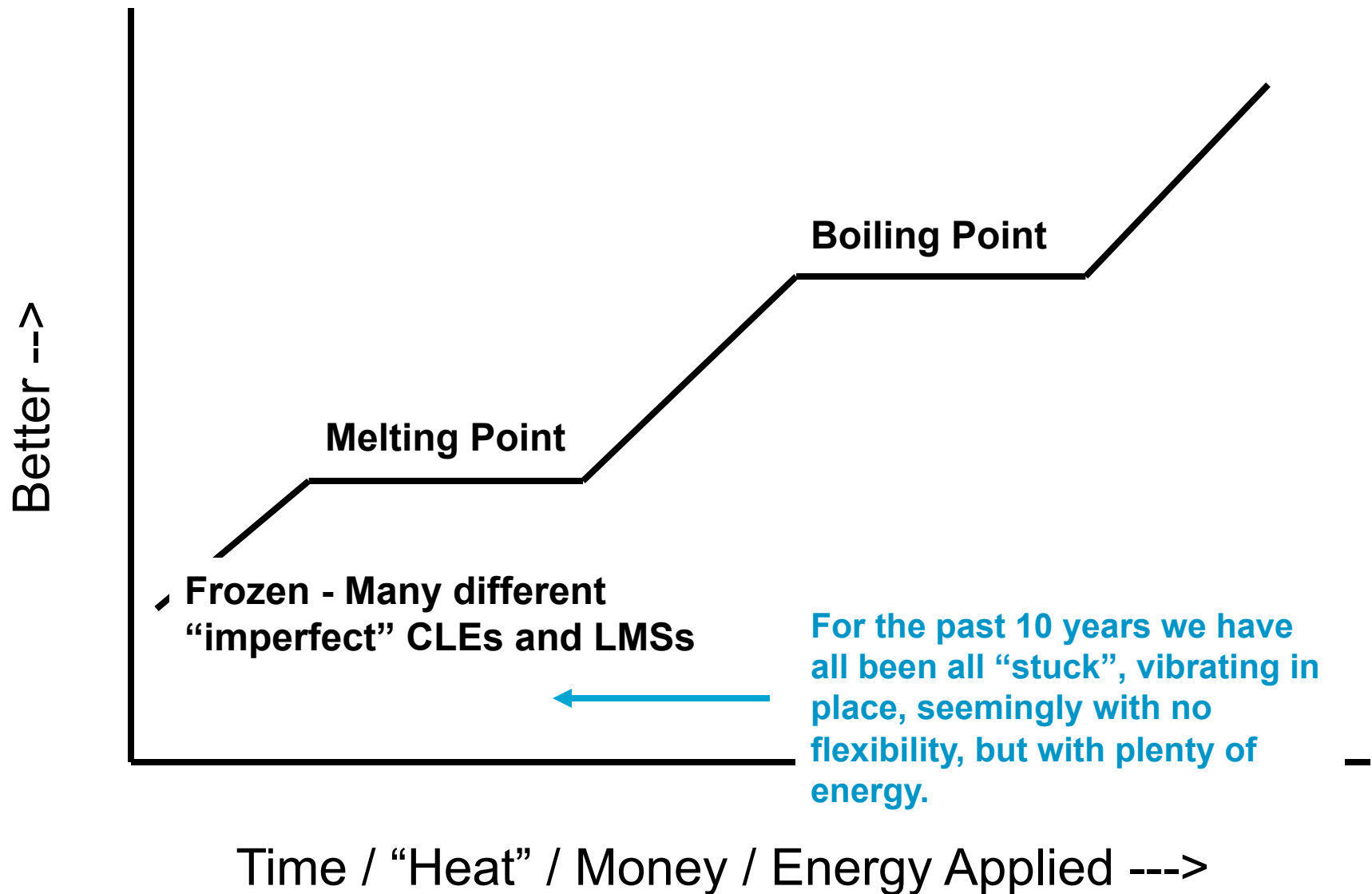
- Stop institutions from writing “yet another” local CLE
- Provide Open Source reference implementation of a CLE
- Encourage portability between commercial and non-commercial CLE's
- Ultimately: Act as base for true innovation in T & L



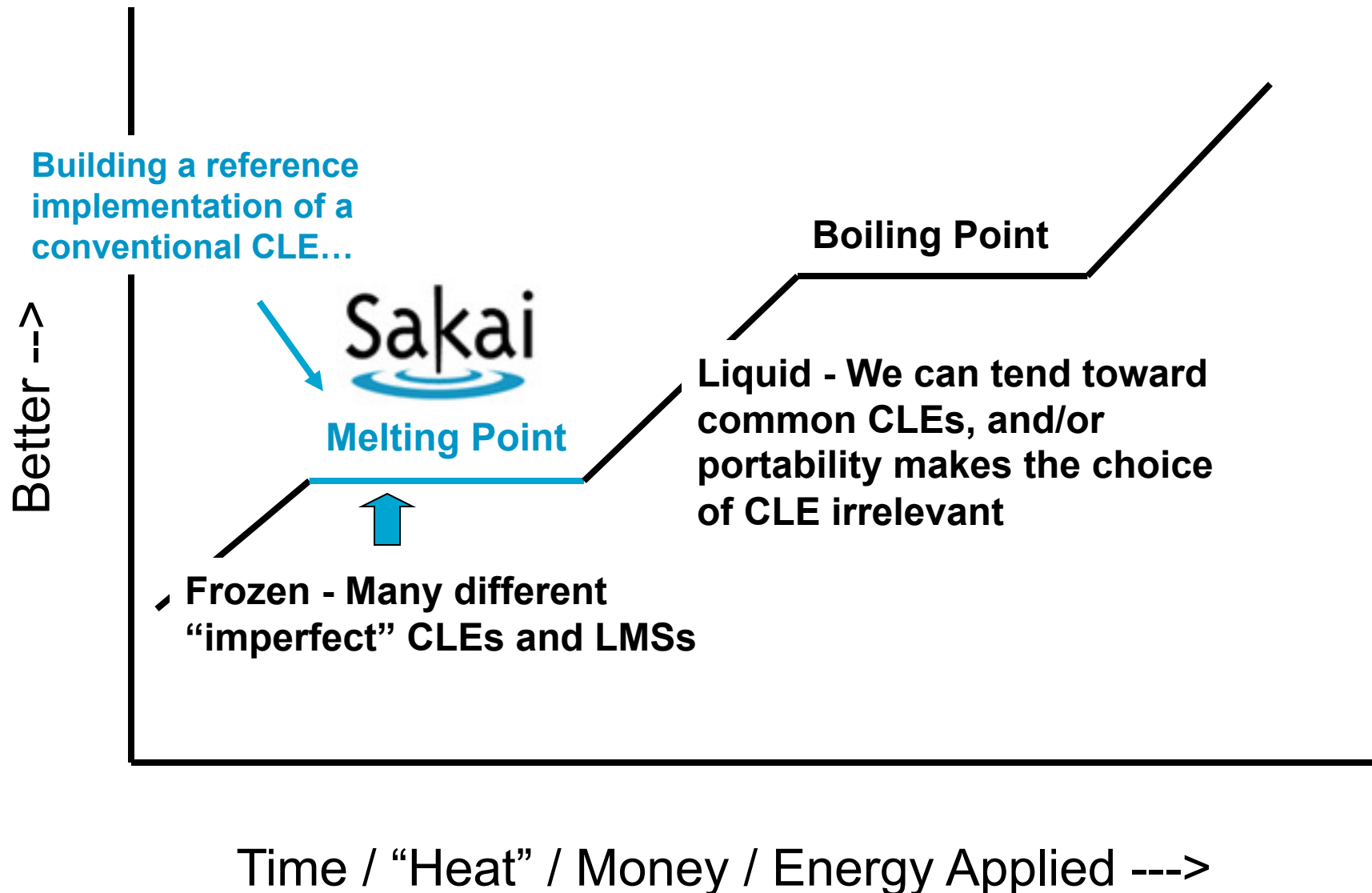
Review: States of Water...



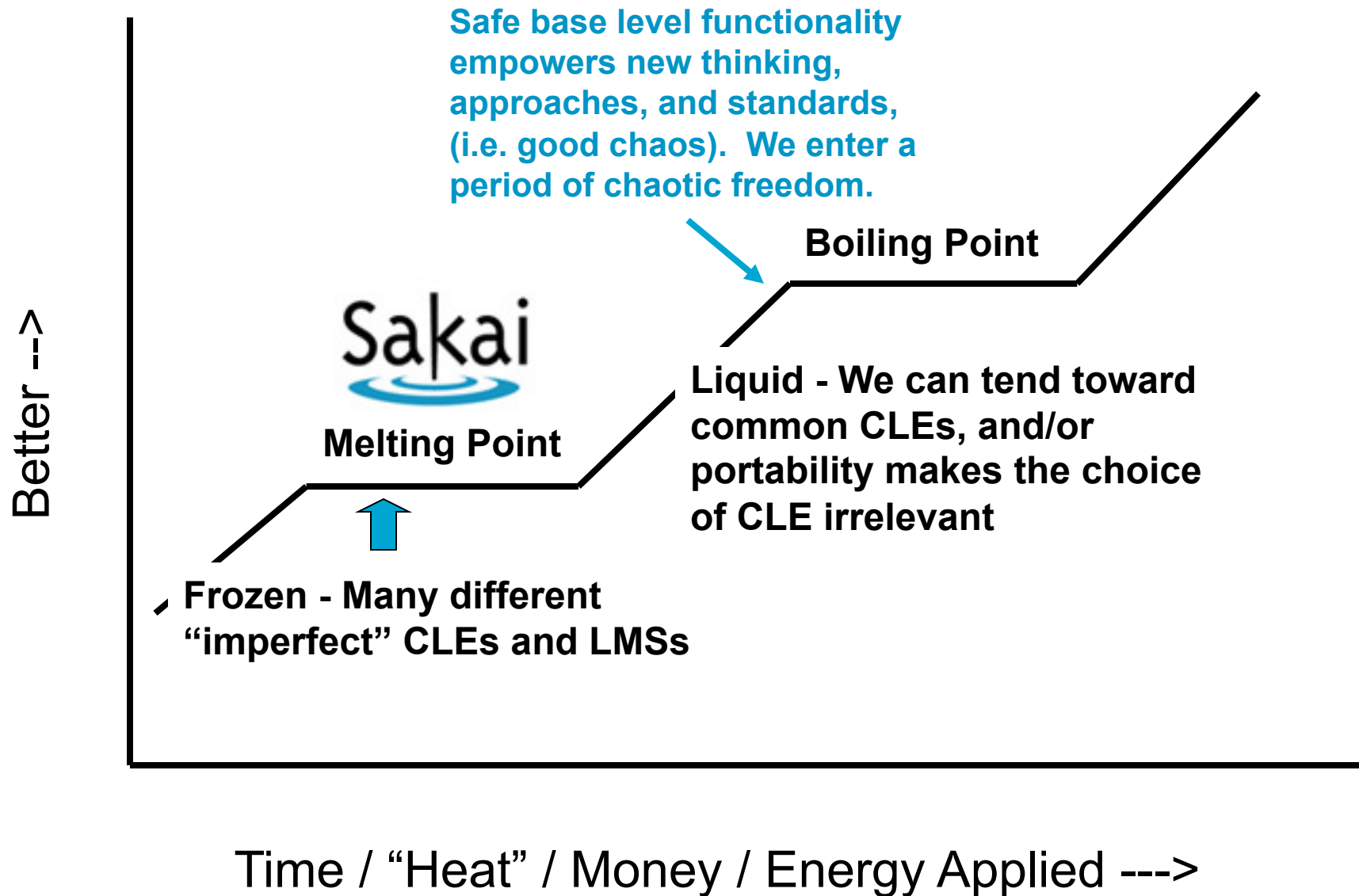
Latent Heat of CLE Innovation



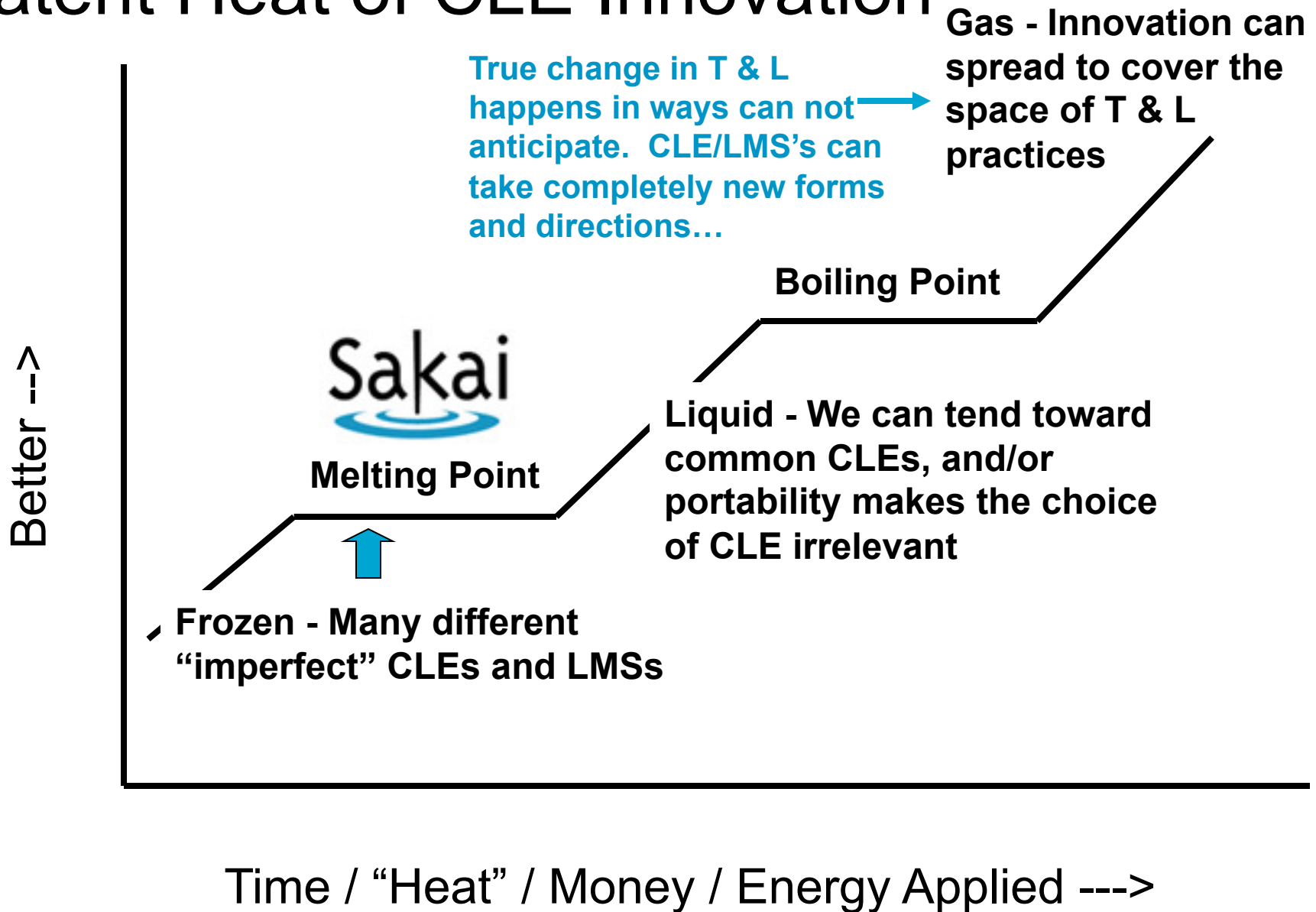
Latent Heat of CLE Innovation



Latent Heat of CLE Innovation



Latent Heat of CLE Innovation



T&L Innovation: Point Solutions

- There is a wide diversity of opinion when it comes to Teaching and Learning Practice and how technology is best used
- Those at the innovation front for T&L almost always evolve their own “point solutions”
- There is an impedance mismatch between these “point solutions” and conventional LMS Systems
- Until point solutions mature and become “conventional”, LMS flexibility and standards for building/integrating many different tools is necessary

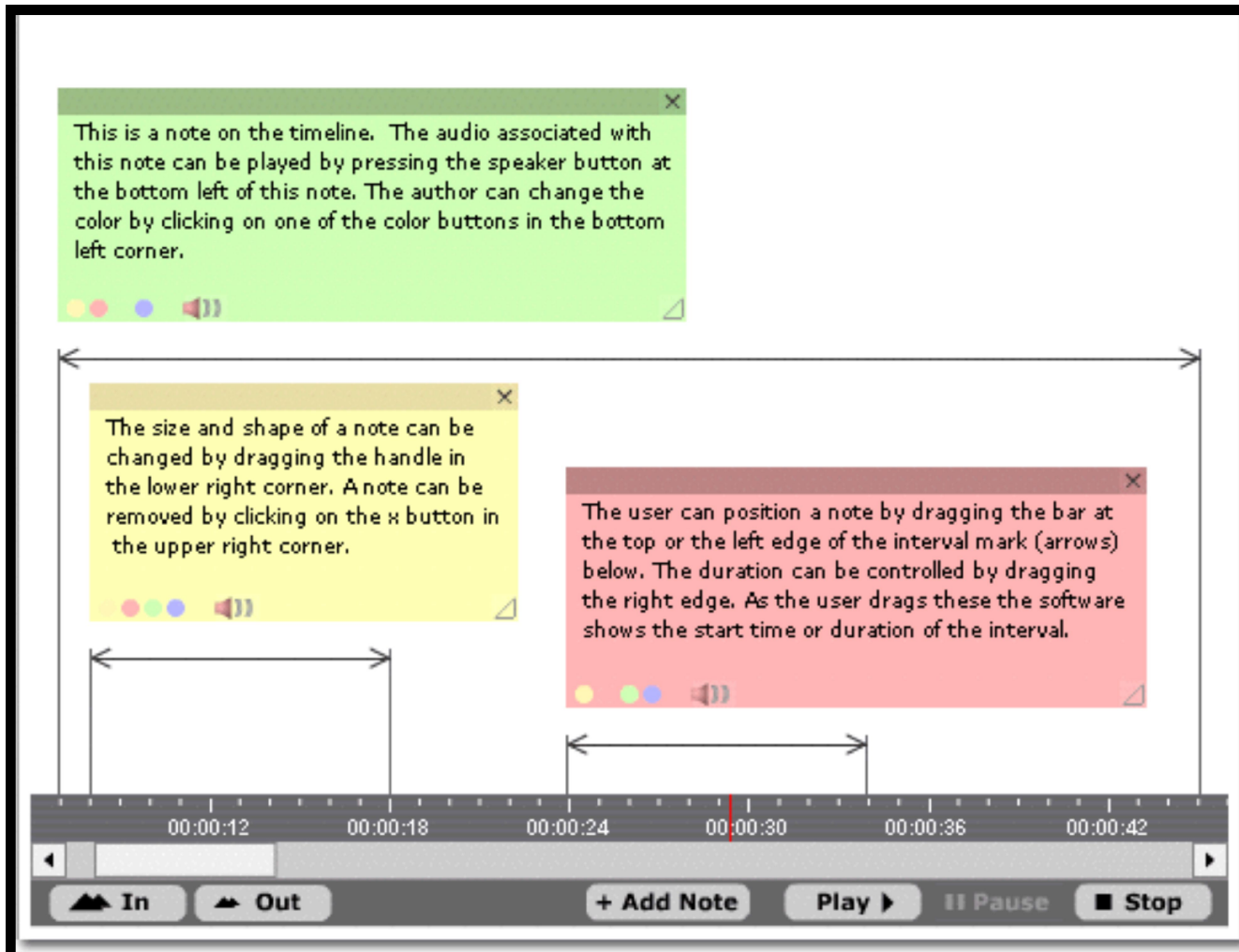


Anatomy of a Point Solution for T & L

- Point solutions are by nature deep explorations down a possibly fruitful path by a passionate person or small group.
- Hard to get traction because it is not a “complete” solution
- Often projects end up starving to death for lack of attention
- Often it is a situation where a poet is ahead of their time



One Point Solution: ProjectPad Audio Annotation



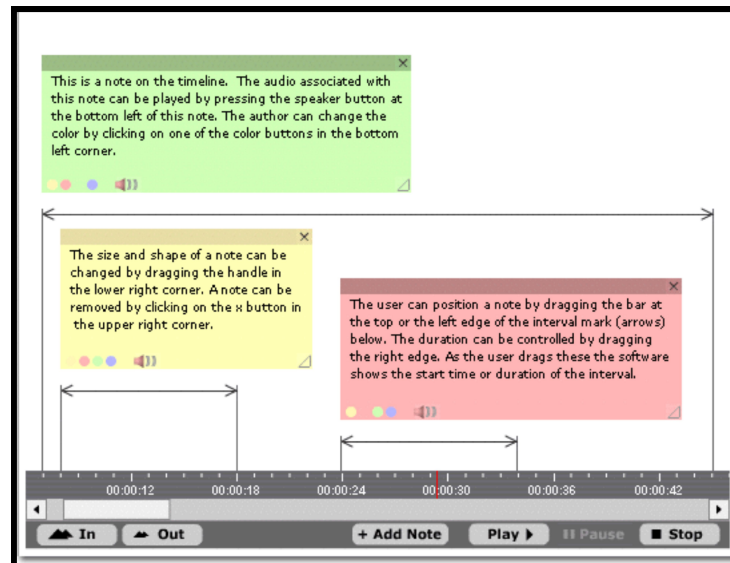
The screenshot displays the ProjectPad Audio Annotation software interface. At the top, a green note box contains the text: "This is a note on the timeline. The audio associated with this note can be played by pressing the speaker button at the bottom left of this note. The author can change the color by clicking on one of the color buttons in the bottom left corner." Below this note are three colored circles (yellow, green, blue) and a speaker icon.

The main interface features a timeline with a playhead at 00:00:30. Three notes are positioned on the timeline, each with a corresponding interval bar above it. The first note is yellow and contains the text: "The size and shape of a note can be changed by dragging the handle in the lower right corner. A note can be removed by clicking on the x button in the upper right corner." The second note is red and contains the text: "The user can position a note by dragging the bar at the top or the left edge of the interval mark (arrows) below. The duration can be controlled by dragging the right edge. As the user drags these the software shows the start time or duration of the interval." The third note is pink and contains the text: "The user can position a note by dragging the bar at the top or the left edge of the interval mark (arrows) below. The duration can be controlled by dragging the right edge. As the user drags these the software shows the start time or duration of the interval." Each note has a close button (x) in the top right corner and a speaker icon in the bottom left corner.

At the bottom of the interface, there is a control bar with the following elements: "In" and "Out" buttons, a "+ Add Note" button, a "Play" button, a "Pause" button, and a "Stop" button. The timeline itself shows time markers at 00:00:12, 00:00:18, 00:00:24, 00:00:30, 00:00:36, and 00:00:42.

ProjectPad Details

- Jonathan Smith, Northwestern University (jas@northwestern.edu)
- www.at.northwestern.edu/spoken/



A Story of a Point Solution

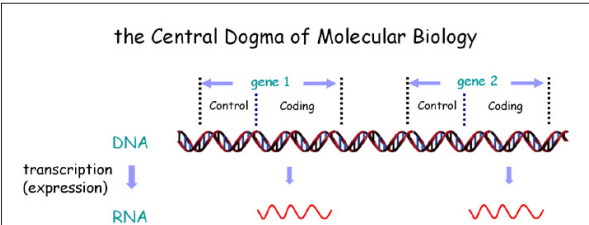
Web Lecture
Archive
Project
www.wlap.org
syncomat.com

← GO BACK 1 | GO AHEAD 1 →

00:03:18 slide 00

APS
American Physical Society

"Using DNA Microarrays to Infer Genetic Networks"
Michael Laub
30 Jan 2004



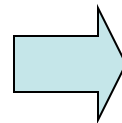
the Central Dogma of Molecular Biology

DNA → transcription (expression) → RNA

gene 1: Control, Coding
gene 2: Control, Coding

the entire set of genes (genome) is a molecular 'parts list'
a cell only ever expresses a subset of its genes (transcriptome)
this set of expressed mRNAs helps to shape and define a cell's physiological state and capabilities
can we measure the level of all mRNAs simultaneously?

PREVIEW SLIDES
? HELP



Tools
And
Technologies

Tools
And
Technologies

Lecture
Object

Sad Story

- 1996 - Invented Sync-O-Matic (Real Media)
- 1997 - 1999 Gave continuous talks / demos at conferences
- 1998 - Tried to commercialize product through my job (It was the 90's after all)
- 1999 - Switched jobs (partially due to bitter experience with intellectual property folks)
- 1999-2001 Re-Invented the idea in ClipBoard-2000 (Quicktime/Apple)



More Sad Story...

- 2001 - Switched jobs to the private sector to commercialize technology and deploy into the M.L.T.
- 2001 - Microsoft dropped M.L.T.
- 2003 - Switched jobs again to work on open source CLE (CHEF)
- 2004 - Became part of Sakai (broader open source CLE)

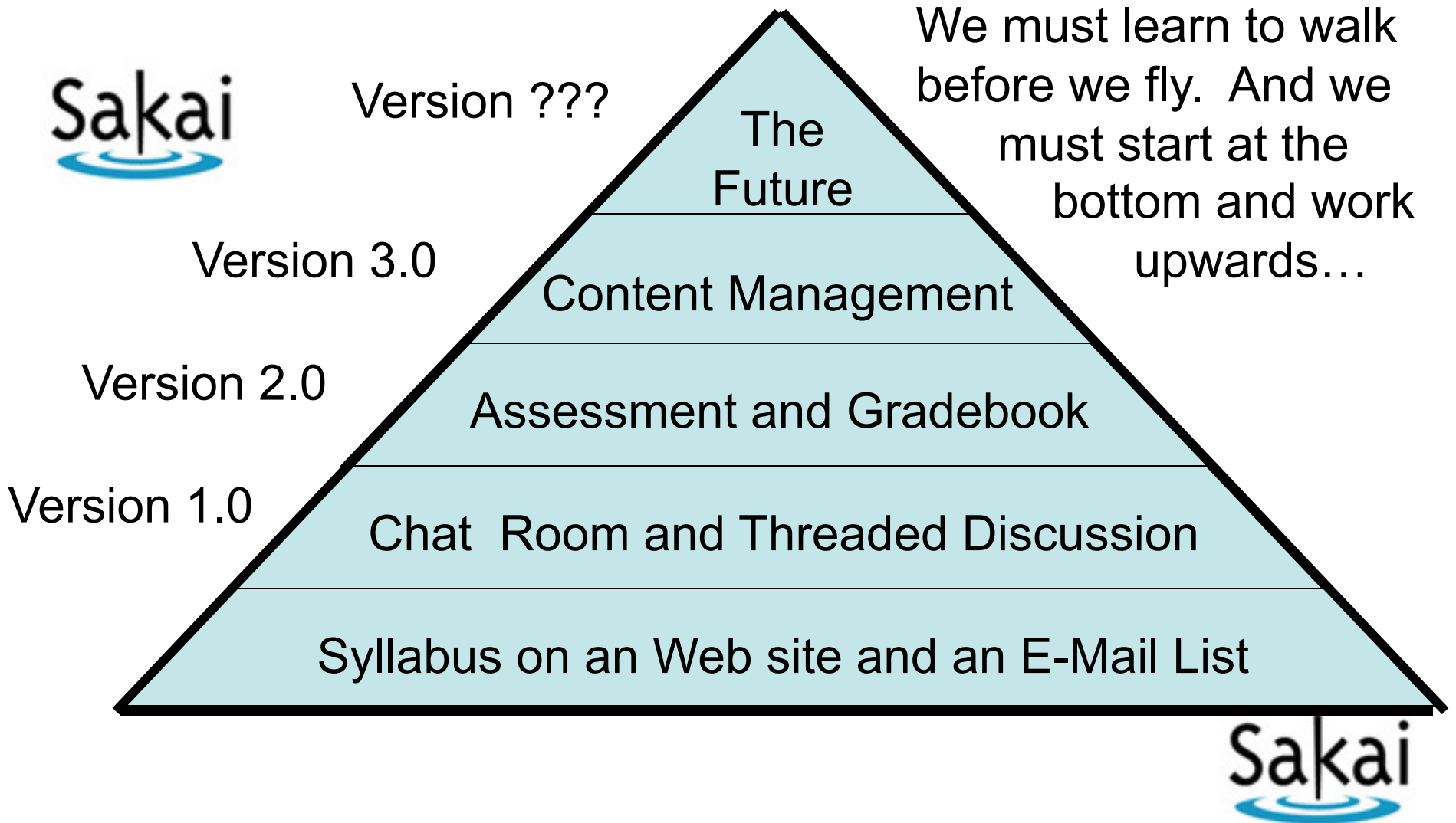


The Future of my Sad Story (?)

- 2005 - Sakai completes and is installed at 20 universities :)
- 2006 - I take a few months, reinvent ClipBoard and integrate it into Sakai so people can *finally* truly use it
- 2007 - Hundreds of people try my idea and it turns out it was a bad idea - so I invent something else...
- Moral: I have been waiting 10 years, and changed three jobs to find a framework to deploy my idea so people could use it. Turns out the only way it was going to happen was to help build it myself.



Chuck's Hierarchy of T & L Needs



Sakai: Empowering Point Solutions

- By providing a stable base of (possibly boring) capabilities, Sakai will empower and support the activities of innovative point solutions.
- Though the Sakai Educational Partners Program (SEPP) point solutions can begin to cluster together and form new stable bases for new innovation to launch from
- With sufficient standards, the choice of a LMS/CLE will not be so crucial

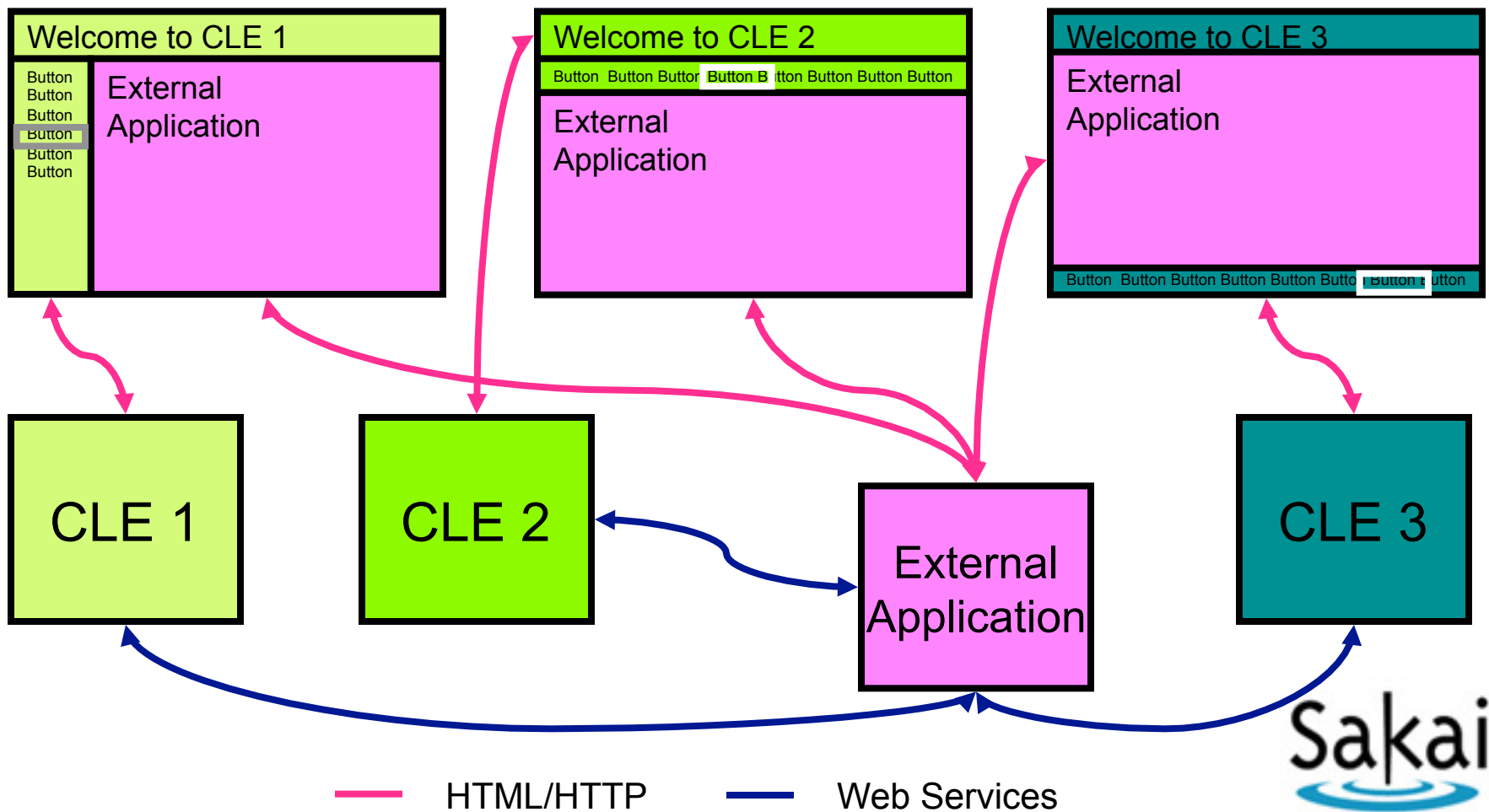


IMS Tool Portability Project

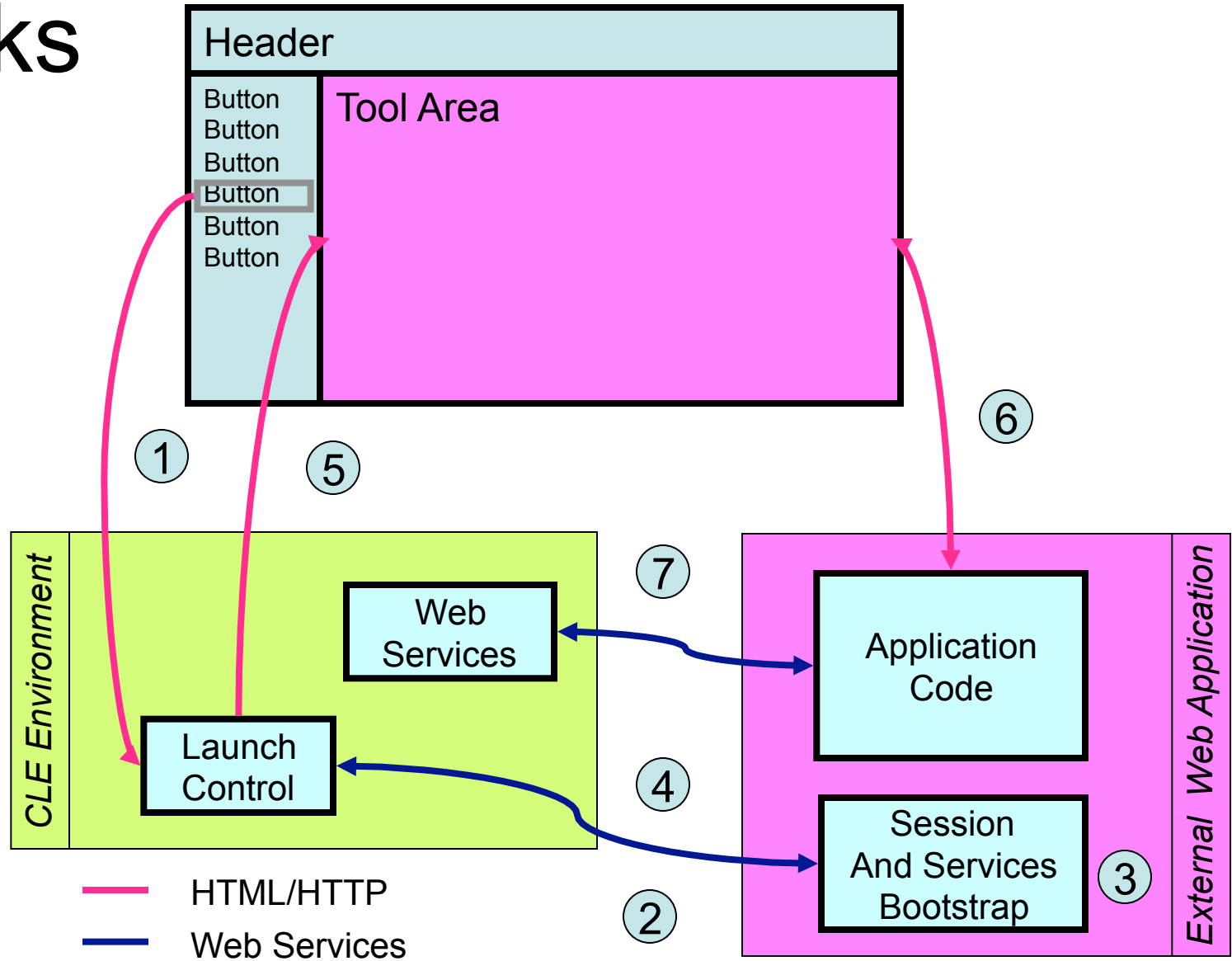
- Started as a SIG for Sakai to interact with commercial LMS companies
- Approved 11/2004
- Blackboard, CETIS, MIT, Sun, Indiana, WebCT, University of Michigan ...
- Goal: By Alt-I-lab in July 2005 to have demonstrated a single application working in Blackboard, WebCT, and Sakai.



By July 2005 - Demonstrate



How it Works



Summary

- Sakai is “unfreezing” the LMS market in a number of important ways
- By gathering open source efforts together, we collectively “show up on radar”.
- By solving the basics of the CLE space, Sakai provides a launch platform for true innovation in approaches to T & L
- By investing in standards efforts, Sakai insures the the forward progress will be across-the-board and not just for the adopters of Sakai.



Observations

- Hype does not last - Sakai must deliver solid software before the Sakai hype starts to fade
- The management and leadership within Sakai are very driven - we have a structure where the board is made up of very active customers



Thank you for your time..

- www.sakaiproject.org
- csev@umich.edu

