

19th Annual LON-CAPA Conference and Workshop

Welcome!



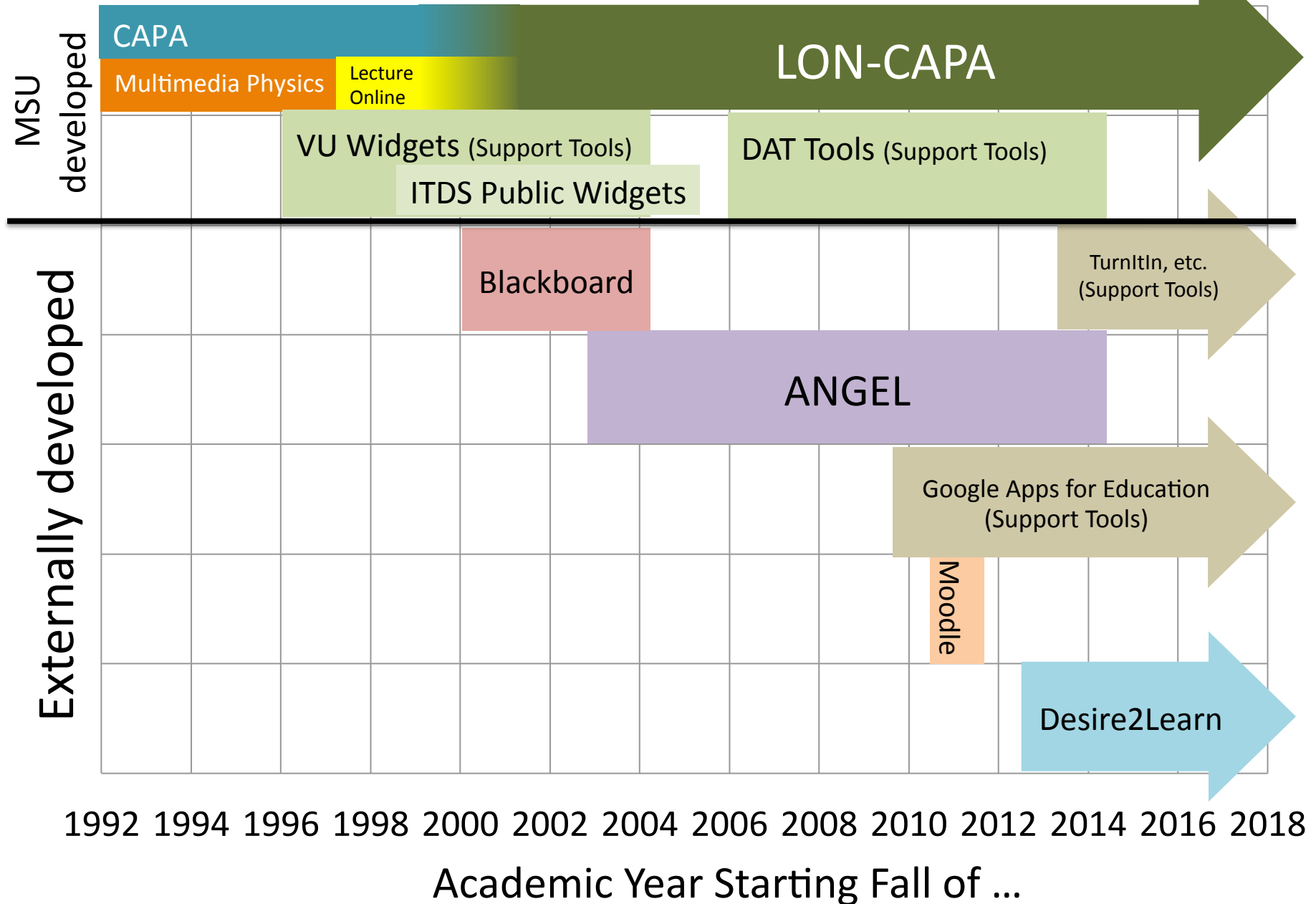
25 Years of LON-CAPA

It's our Silver Anniversary!

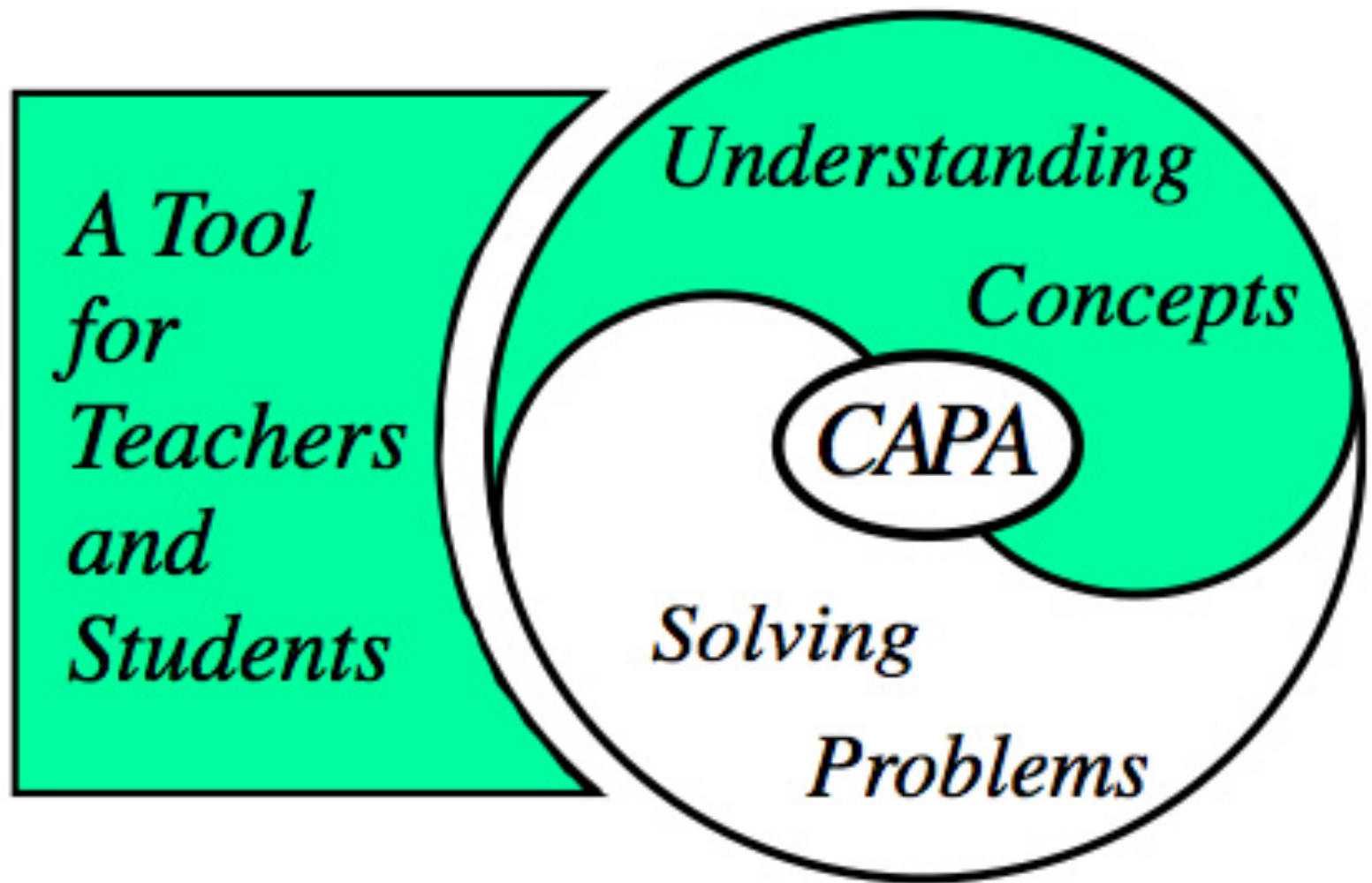
What the first CAPA server looked like



History of Course Management Systems at MSU



1992





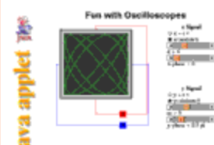
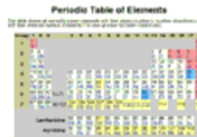
1992

- CAPA (a Computer-Assisted Personalized Approach) is piloted in a physics class of 92 students, using paper printouts and Telnet to serve and grade personalized homework
- Multimedia Physics gets started with an NSF Presidential Faculty Fellow award, using SuperCard for electronic, interactive course materials

1993

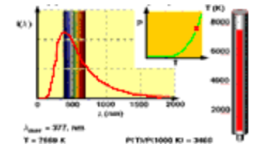
- Multimedia Physics receives NSF ILI award

MultiMedia Physics



Projects

- **New in 2000/01:** [lon-capa](#): A web within the web (NSF funding)
- Computerized introductory physics lab (NSF funding)
- [First Year OnLine](#) (HHMI funding)
- [Physics Applet Collection](#)
- [Virtual Physics Lab](#)
 - [Article in the Chronicle of Higher Education](#) on our virtual lab project.
- Virtual University Classes
 - PHY231C, PHY232C, Advanced Placement Physics ([password required for access](#))
 - Over 1000 students around the country and even in Europe have already completed these courses.
 - [Course Information](#)
 - [Syllabus, schedule, current info](#)
- [ConCam](#)
- [Physics Resource Center](#)
- Textbook on cd-rom: cliXX Physik (in German)
- **New in 2000/01:** Partnership between MSU and [Apex Learning](#) to develop [Advanced Placement Physics courses](#) for high school students.



Faculty Members

- [Prof. Wolfgang Bauer](#)
- [Prof. Walter Benenson](#)
- [Prof. Gary Westfall](#)

1997

Distance Learning via the Internet

Wolfgang Bauer, Walter Benenson, Gerd Kortemeyer, Gary Westfall

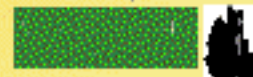
Individualized Interactive Homework and Exams



- Homework can be submitted from anywhere in the USA
- Use of World-Wide Web
- Individualized assignments for each student
- Help on demand
- Immediate feedback

Interactive Simulations, Animations, Derivations

allow students to explore contents at their own pace



Internet site: <http://mmp.nsl.msu.edu/>

Goals:

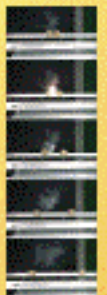
- Provide better access to universities and colleges
- Virtual university
- Improve general science literacy
- Increase students' interest in science classes

Video Clips of Lecture Demonstrations

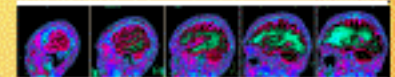


Distribution via:

- World-Wide Web
- CD-rom



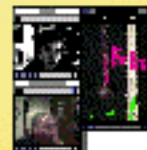
Integration of Research and Teaching



NSF - Funding Provided by:

- Instrumentation and Laboratory Improvement Grant
- Presidential Faculty Fellow Award
- NSCL

Office Hours on the Internet



- Electronic mail
- Chat rooms
- Video conferencing

1998

Netscape:

phy231c: H: cd014

- Edit Content
- Copy Content
- View Content
- Homework
- Drop/Add
- Set Due-Dates
- Set Email
- Set Bonus

Netscape: MSU LectureOnline Browser

Ch 10 - Optical Instruments
10.3 - Lens Combinations

Res. No. 284 **Optical Instruments**
Chapter: Optical Instruments
http://~mmp/kap26/cd653.htm

Res. No. 285 **Two Lenses**
Page: Two Lenses
http://~mmp/kap26/cd654.htm

Res. No. 286 **Lens Combinations**
Page: Lens Combinations
http://~mmp/kap26/cd655.htm

Res. No. 287 **Lens Combination Example**
Page: Lens Combination Example
http://~mmp/kap26/cd656.htm

1998



PRESENTED TO
EDWIN KASHY
MICHAEL THOENNESSEN
YIHJIA TSAI
NANCY E. DAVIS
SHERRY L. WOLFE

FRONTIERS IN
EDUCATION CONFERENCE
EDUCATION SOCIETY, IEEE
ERM DIVISION, ASEE
NOVEMBER 1998



1998 Frontiers In Education Conference

Best Paper Award

awarded to

Gerd Kortemeyer, Wolfgang Bauer

*Multimedia Collaborative Content Creation (mc³) -
the MSU Lecture Online System*

November 5th, 1998

D.L. Evans, General Chair



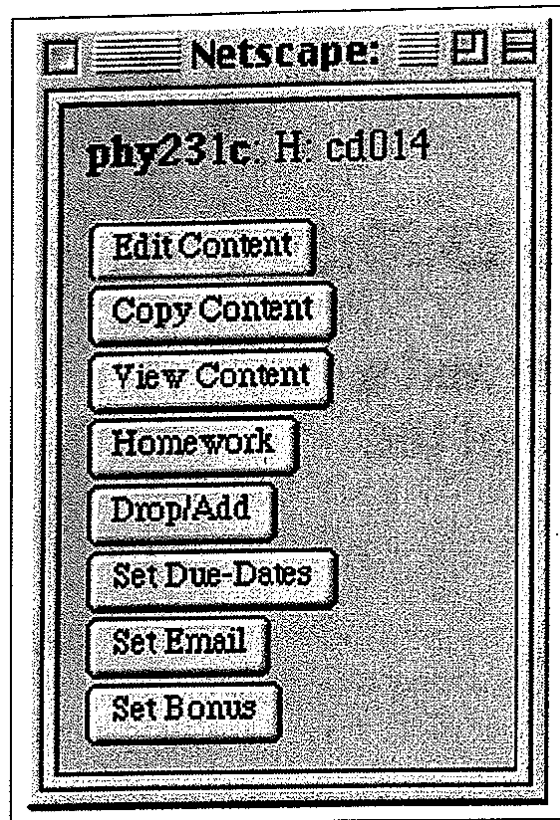
Sponsored by: IEEE Computer Society,
IEEE Education Society and the
American Society for Engineering Education
(Educational Research and Methods Division)
In cooperation with: Arizona State University



2000



2001



2002




















- Version 0.5 of LON-CAPA released



2002



2003

	Domain - sc (University of South Carolina)
	Domain - sfu (Simon Fraser University)
	batchelo
	chem281
	exafs
	hanlan
	mxchen
	slavieri
	vjungic
	Domain - sunysb (SUNY Stony Brook)
	Domain - tmcc (Truckee Meadows Community College)
	jensen
	mbauer
	souza
	Greenberg
	<u>default.sequence (metadata)</u>
	samples
	testuser1
	Domain - ucf (University of Central Florida)

2003



2003



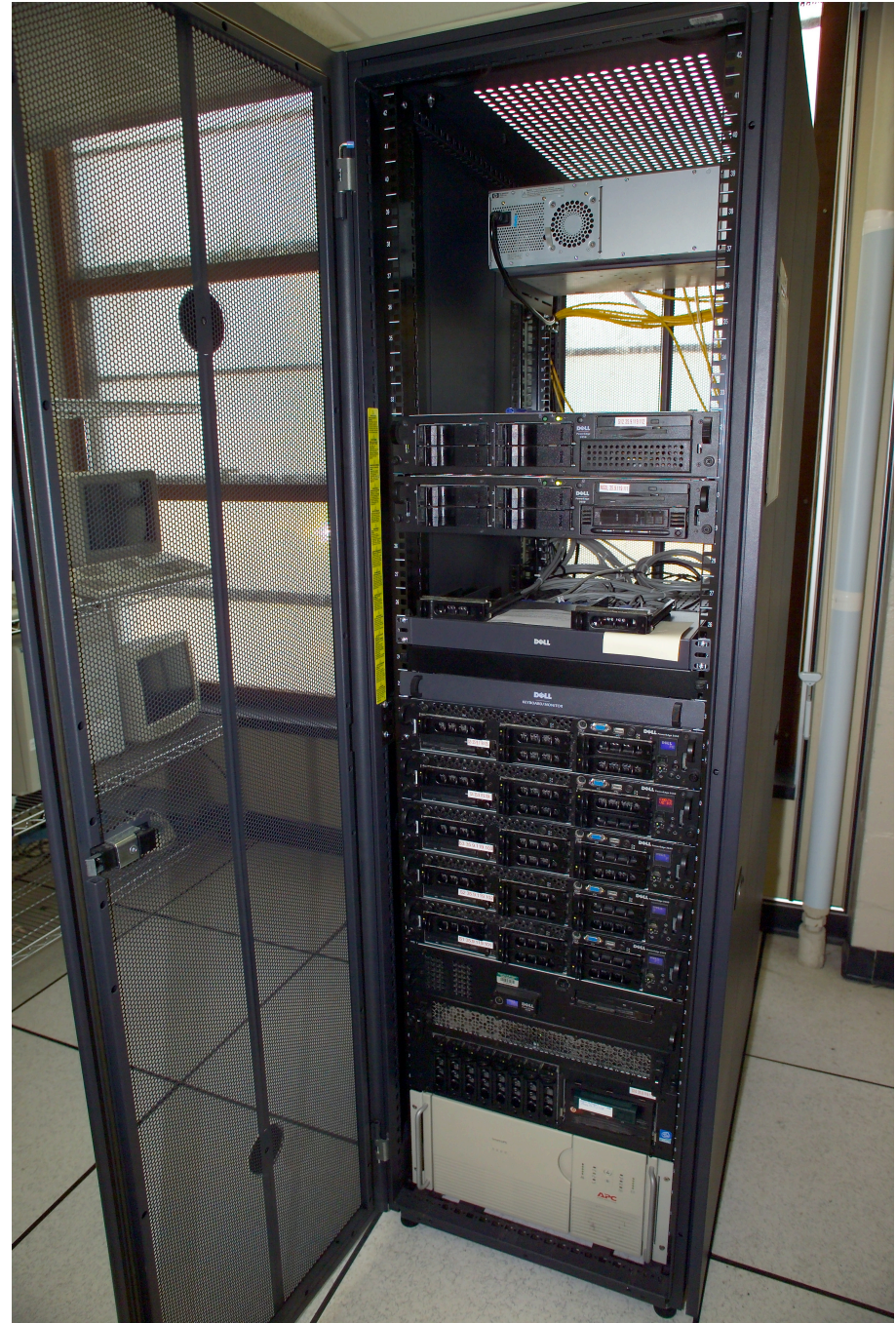
2004



2004



2004



2004



2005



2005



2005



2006



2006

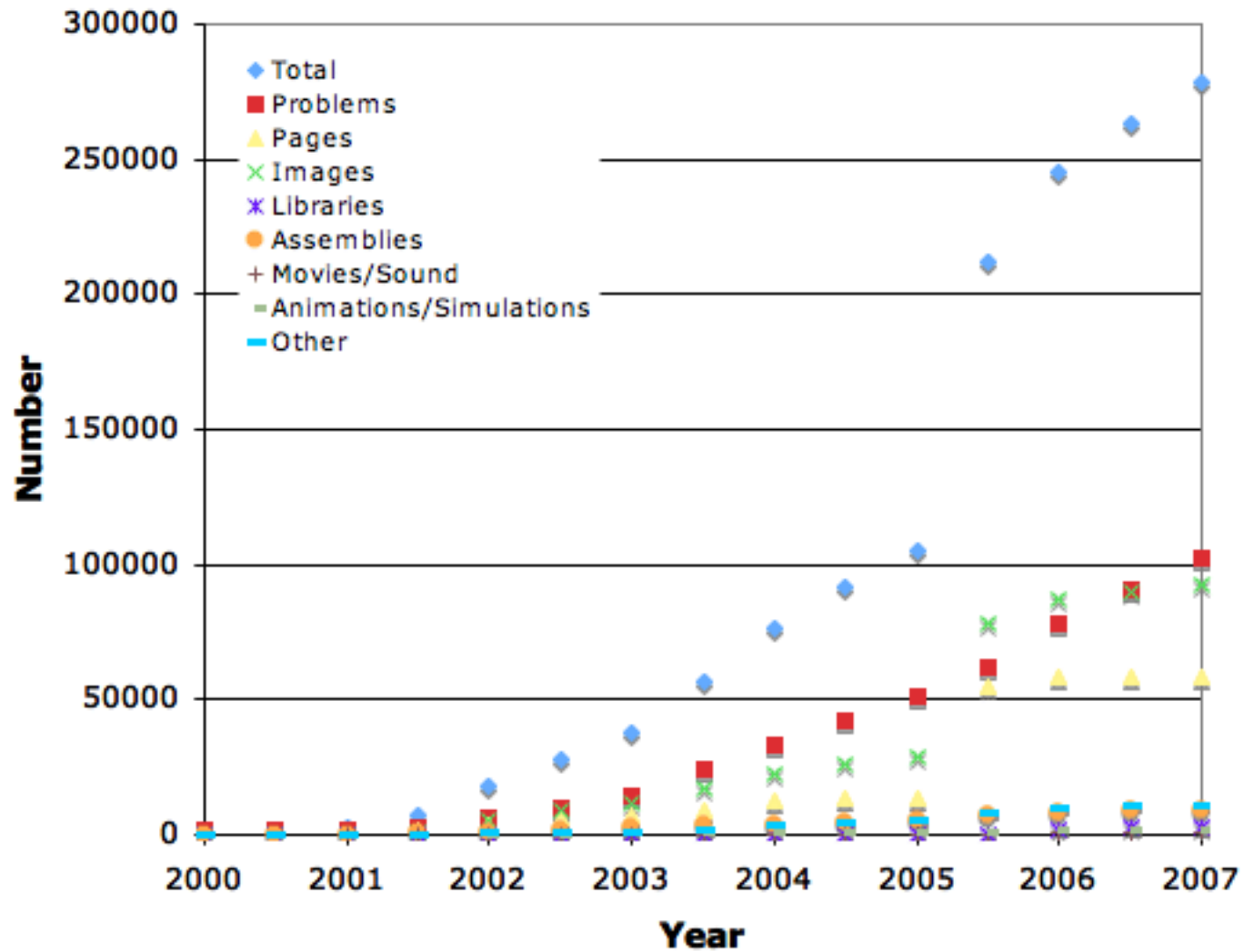


2006



2007

LON-CAPA Shared Resource Pool



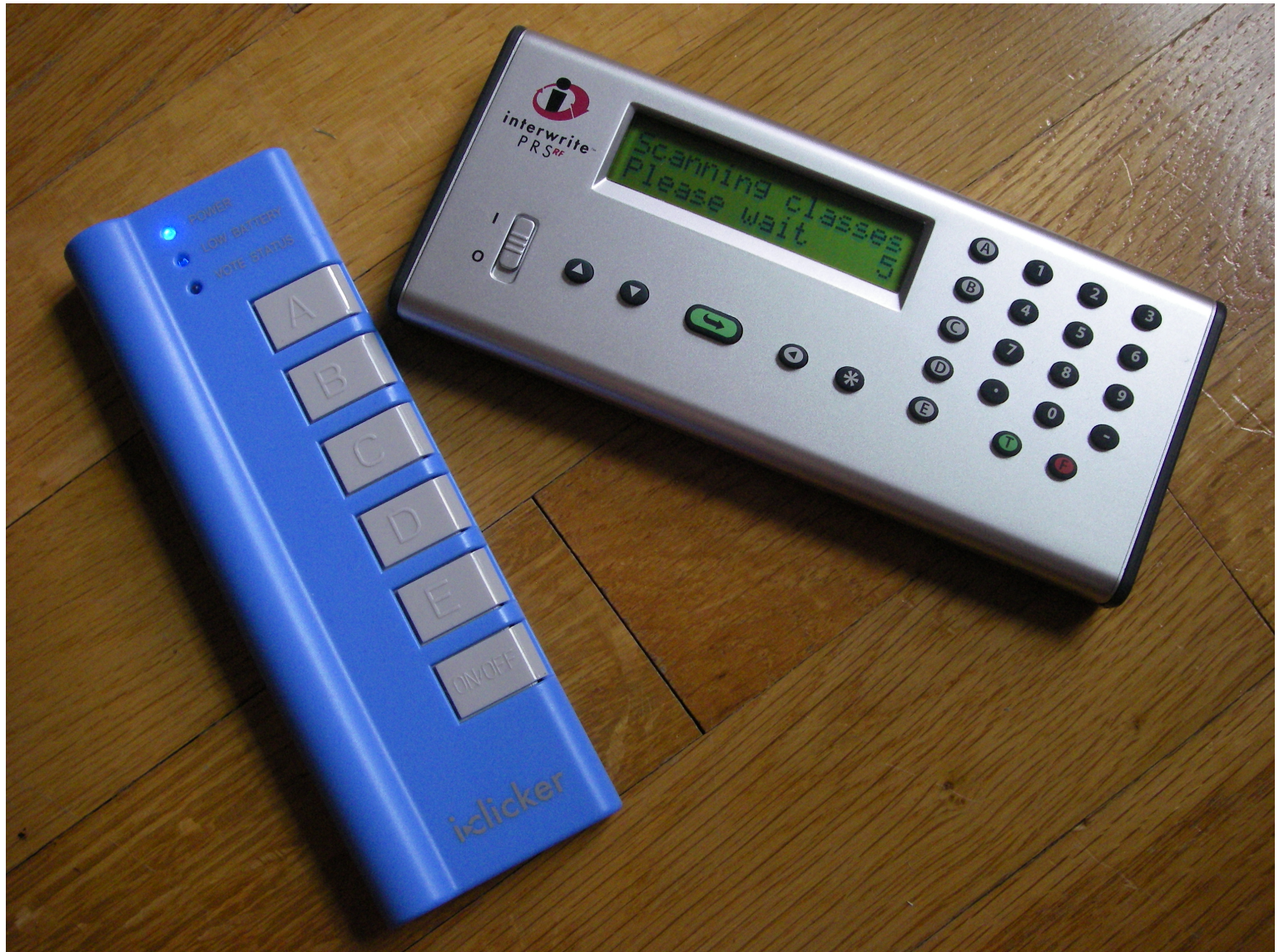
2007



2007



2007



2008



2008



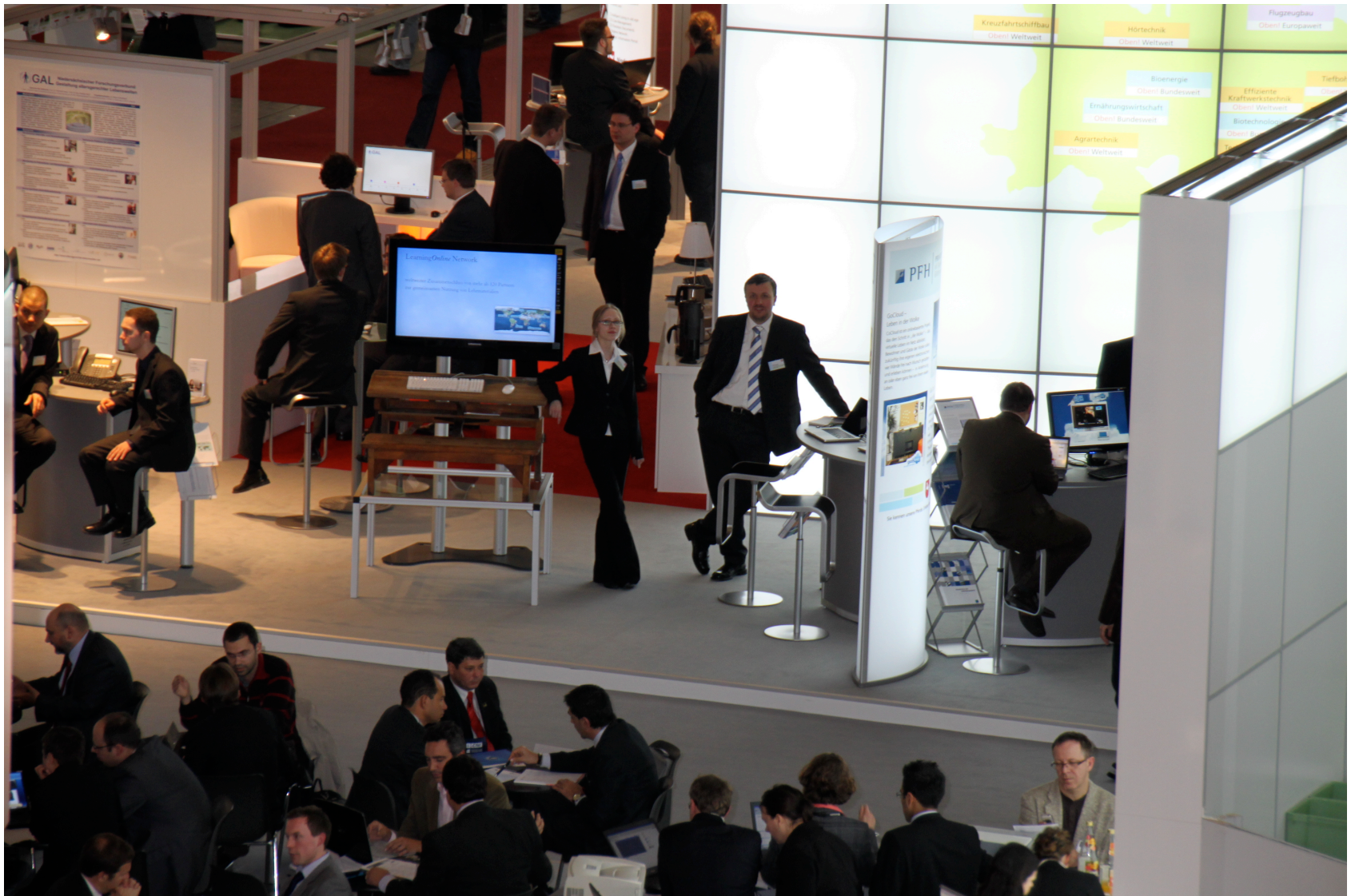
2009



2010



2010

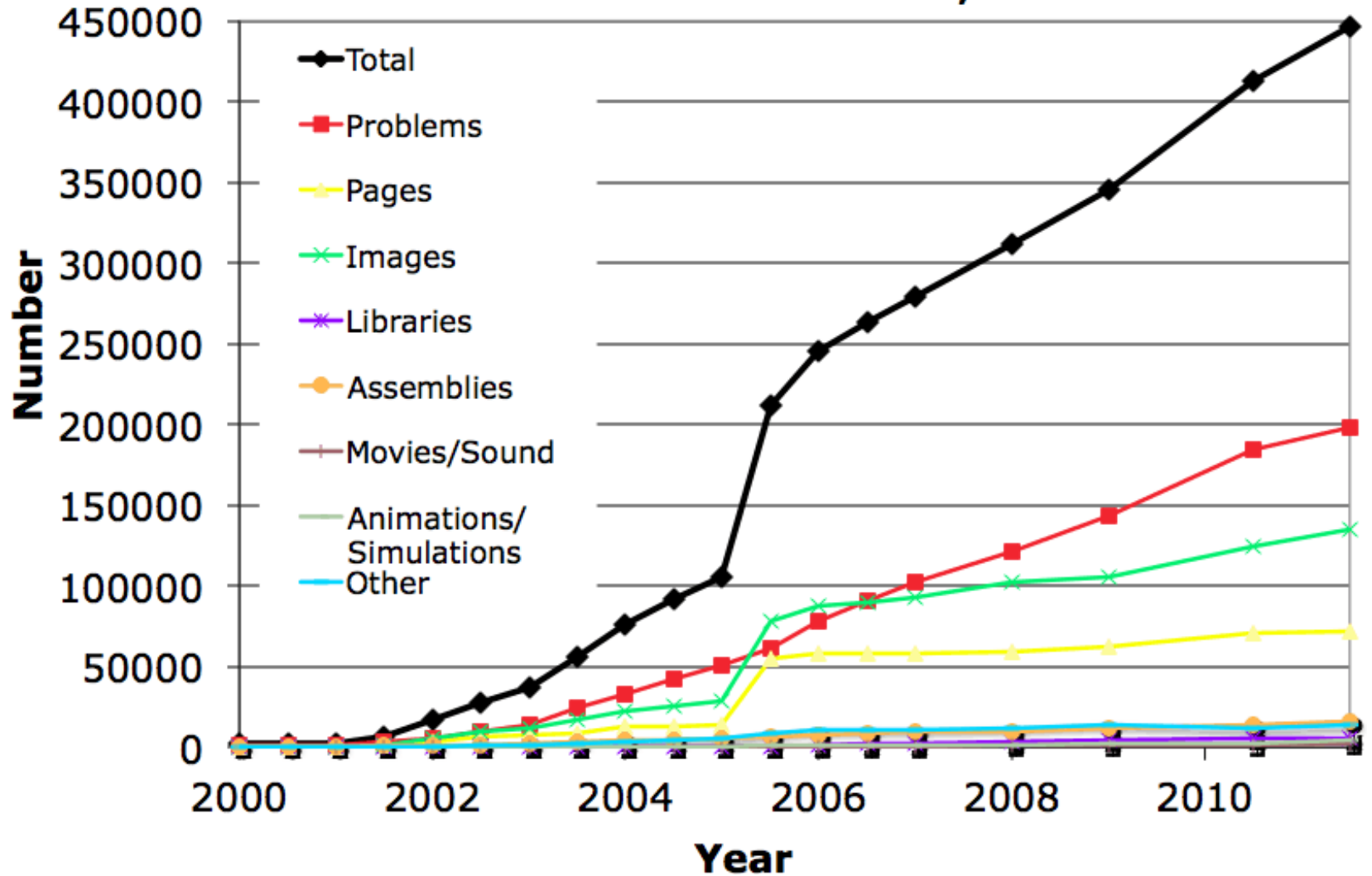


2010



2011

LON-CAPA Shared Resource Pool, Summer 2011




2012





2013-2015



2015

The screenshot shows a web application interface with a teal header bar. The header contains navigation links: 'Übersicht', 'Plätze', 'Nutzer', 'Hilfe', and 'Abmelden'. Below the header, there is a sub-menu with 'Einstellungen', 'Kurse', 'Gemeinschaften', and 'Portfolio'. The 'Einstellungen' page is active, displaying the text 'Sie können die untenstehenden Einstellungen verändern.' followed by two dropdown menus: 'Sprache' set to 'Deutsch' and 'Zeitzone' set to 'America/Detroit'. A teal 'Speichern' button is located at the bottom of the settings section.

Übersicht Plätze Nutzer Hilfe Abmelden

Einstellungen Kurse Gemeinschaften Portfolio

Einstellungen

Sie können die untenstehenden Einstellungen verändern.

Sprache

Zeitzone

Speichern

2016

Journal & Courier

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ARCHIVES

insider

USA TODAY

Initiative may save Purdue \$1M on textbooks

Joseph Paul, jpaul@jconline.com

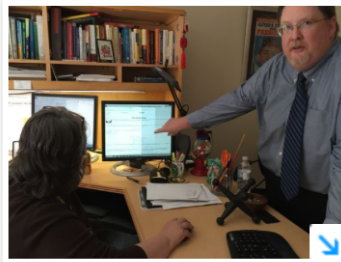
Published 11:46 a.m. ET Feb. 22, 2015 | Updated 11:46 a.m. ET Feb. 22, 2015



169



5



(Photo: Joseph Paul/Journal & Courier)

f 169

CONNECT



TWEET

in 5

LINKEDIN



COMMENT



EMAIL



MORE

In the sharing economy, an unused car or an empty couch has the potential to make money for some and save it for others.

If those items can be shared, some Purdue University students ask, why can't textbooks?

Purdue Student Government passed a resolution last month recommending that the Office of the Provost replace existing online curriculum programs like WebAssign, which offers Web-based lessons and collects and grades assignments based on texts from major publishers. It sometimes costs more than \$100 for each course.





2017

Now what?!



2017

- 25 years is longer than any other comparable system I know off
 - So: no more “will you be there tomorrow?”
- Still:
how do we ensure the next 25 years?
 - preserve value (content!)
 - be nimble (yet preserve legacy)
 - innovate (yet remain “enterprise level”)
 - continue to serve our users



2017

- **Code-base:**
 - 18 years old
 - architected in 1999
 - hard to modify/maintain
 - Evolution or revolution?
- **Funding:**
 - Not eligible for research funding