Active Learning
Engaged Learning

Collection of perspectives on digital innovations in online learning

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“I am tired of traveling... Also, I don’t always get the kind of participants I want when I present at conferences......I like to post my opinions, research results on my blog so only interested people can come and learn and interact with me without all the hassle involved in traveling.”

(Mike Kirst, Prof. Stanford University, Blog owner)
People Google topics and find Mike’s blog. They come and actively interact with Mike and others.

Incentives and Signals Can Improve College Success

We need to reformulate the college access issue to focus more on “access to preparation and success,” rather than the more traditional issue of access to a slot in postsecondary education. Student incentives and signals to students are important concepts to increase college completion.

Examples of incentives could be admission policies that reward students for completing numerous college preparation courses, or teacher professional development that helps increase the probability of students meeting college placement test standards. Both extrinsic and intrinsic motivations are important components of motivating prospective college student behavior.

Signaling theory suggests that streamlined and aligned high quality and appropriate content messages have a positive impact on students’ learning and achievement, and that mixed and conflicting signals—the current state of affairs—have the opposite effect. School site educators, including but not limited to counselors, can be purveyors of information (e.g., signals) about what students need to know and be able to do in order to succeed at postsecondary education. Many secondary school teachers play a large role in providing signals, especially for high achieving students. If teachers do not know much about college placement exams at non selective colleges, Moreover, students get clearer signals if colleges communicate more about placement tests and not just how easy it is to get into their college. For more put “the bridge project” in Google and go to publications.

Labels: college information, college success

posted by The College Puzzle at 5/14/2008
“Online teacher training on new subjects such as Ocean Literacy requires a new assessment method. I wonder if they really got all the new ideas...I want the online participants to self-reflect their own learning and compare their work among themselves...” (Glen from USSL)
After the training, the participating teachers self-reflect using an online concept map.

Esther reviews each and every map from the participant.

The maps are linked from their blogs to invite others to comment on or add new ideas on the map.

comapping.com
“There is no way we can get all the professors in multiple continents to come to the same place at the same time to discuss a new PBL case in a matter of hours.” (YS Lee, Director, Medical Research Information Center, CBNU Medical School, Korea)
Dr. Lee posts his discussion materials on the web.

Participants discuss the case synchronously while making remarks and notes.

All augmented information is archived and organized for later retrieval.

New comers retrieve the archived materials and discuss further asynchronously.

www.wiziq.com

Live Session
“Well...webinars and blogs are good, but current web tools cannot accommodate the kinds of learning we value. For example, we often use high definition videos to train doctors. Our one way video stream is several hundred mega bits per second...We want to broadcast live surgery sessions over the Internet to doctors located at 7 different time zones...so we can have live sessions on new procedures. We are very busy, you know...”
(Dr. Sung Jung, CNU Medical School)
10 Gbps backbone since 2006 to be upgraded to 100Gbps by 2010

Global Ring Network for Advanced Applications Development
HD video streams transmitted over Gbps
People have synchronous discussions
Videos are archived in video libraries

Laparoscopic procedure to remove ovarian cancer

[Link to video1] [Link to video2]
“I am sure we can do whatever you do now with the web on mobile devices. I mean we got WiMax for outdoor Internet and 3G… Let’s take advantage of the mobile web.” (John Loughney, NOKIA Research Lab).
The new Nokia - Stanford University Forums are live. Please visit it at http://nokia.stanford.edu/forums

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meeting notes
July 8th, 2008

This is the note from the brainstorming session held on July 15th at the Center for Educational Research at Stanford University.

nokia-mobile-learning-meeting-notes
Mobile PBL for 3rd year med school students

http://easymeet.nokia.com/
Mobile Health Education

http://teachaid.org/
Size Matters

2.6 inch  4.1 inch  28 inch
Access materials
Interact with people
Organize your e-portfoli0
**mobile**
flip your handheld or mobile device

**notebook**
flip your notebook or tablet pc

**desktop**
flip your monitor or tablet display
“Internet is good and Google, Wiki, 2nd life can be used in education, but how about those who live in developing countries? Or the children in poor communities? They can never be bloggers by nature… Blogging and social networking seems to be a human right these days…(Paul Kim, Asst. Dean & CTO, Stanford School of Education)
Global Rapid Mobile Adoption

- 60,000 new mobile subscriptions every hour*
- By the end of 2008, 3 Billion mobile subscribers*
- One third of the mobile subscribers will have internet capability by end of 2009*
- Mobile Technology is making much broader impact than we can possibly understand the possible implications.

Source: NOKIA Research Lab
POMI 2020
Programmable Open Mobile Internet

The Stanford Clean Slate Program
http://cleanslate.stanford.edu
The Big Research Agenda

Applications
PocketSchool, Virtual Worlds, Augmented Reality

Data Substrate
PRPL Virtual Data System

Computation Substrate
Network of VMs, Mobile VMs

Network Substrate
OpenFlow

Radio technology
Multi-Gb/s, 99% coverage

Handheld
UI
Secure mobile browser
Energy efficient
Secure OS
HW Platform

Economics
Radio technology
Multi-Gb/s, 99% coverage
PRPL: PRivate-Public Data Index

- A unified view of data
- Separate data ownership, storage, applications
- Secure, fine-grain sharing
- Device-independence: caching
- Interactive data navigation with semantic-web queries
OpenFlow Switching

Our goal

- Allow continued evolution of the network e.g. new ways to manage and secure
- Allow different mobility, naming, addressing, routing schemes to co-exist
- Yet backwardly compatible with IP and end-hosts.
Power-limitation of handheld ⇒ Computation will move to the cloud

Need to back up and refresh our lost data ⇒ Data will move to the cloud