

The Flat World Swung Open: How Web Technology Is Revolutionizing Education

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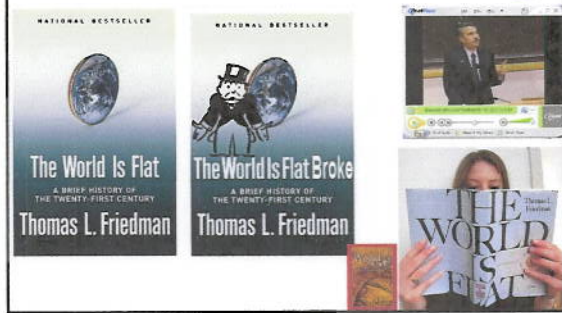
Where are you headed?



Do you know the shape of the world?



Is the World Flat?



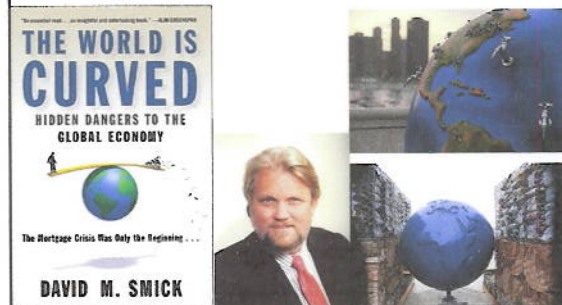
The Ten Forces that Flattened the World

Triple Convergence: (1) new economic players, (2) playing fields, and (3) processes.

1. 11/9/89: Berlin Wall came down
2. 8/9/95: Netscape went public
3. Work Flow Software (e.g., PayPal and eBay)
4. Open-Sourcing (Self organ collob communities; Mosaic, Apache, Wikipedia, Linux, Mozilla)
5. Outsourcing (Y2K)
6. Offshoring (e.g., China, Mexico, Thailand)
7. Supply-Chaining (e.g., Walmart)
8. Insourcing (UPS fixing Toshiba laptops)
9. In-forming (e.g., Google, Yahoo!, MSN Web Search)
10. The Steroids: Digital, Mobile, Personal, and Virtual (wireless, file sharing, VoIP, video camera in phone)



Is the World Curved?



Is it spiky?

WHO'S YOUR CITY?
RICHARD FLORIDA

Or is it Open?

OPENING UP EDUCATION
The Collective Advancement of Education Through Open Content and Open Knowledge



Oregon Scientific Smartglobe

Old companies teach new tricks

Microsoft, Dell, Apple face up to the old ways of doing things

Remember when...

Some Notable Moments in Recycled Life

- 1940: The Borden company makes penicillin, making it the wonder drug.
- 1946: President Truman signs the National Security Act, creating the CIA.
- 1948: The first atomic bomb is tested in the Nevada desert.
- 1950: The first television commercial is aired.
- 1954: The first nuclear power plant is built in Shippingport, Pennsylvania.
- 1955: The first space shuttle is launched.
- 1957: The first satellite is launched.
- 1958: The first computer virus is discovered.
- 1960: The first space shuttle is launched.
- 1961: The first space shuttle is launched.
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- 2018: The first space shuttle is launched.
- 2019: The first space shuttle is launched.
- 2020: The first space shuttle is launched.
- 2021: The first space shuttle is launched.
- 2022: The first space shuttle is launched.
- 2023: The first space shuttle is launched.
- 2024: The first space shuttle is launched.

Vannevar Bush

TIME
THE WEEKLY MAGAZINE

Charles Wedemeyer, University of Wisconsin

Learning at the Back Door
REFLECTIONS ON NONTRADITIONAL LEARNING IN THE LIFETIME

Charles A. Wedemeyer

August 9, 2010, Bill Gates Predicts Technology Will Make 'Place-Based' Colleges Less Important in 5 Years
 By Jeff Young, Chronicle of HE
<http://chronicle.com/blogs/article/Bill-Gates-Predicts-Technology-Will-Make-Place-Based-Colleges-Less-Important-in-5-Years>

Wired Campus

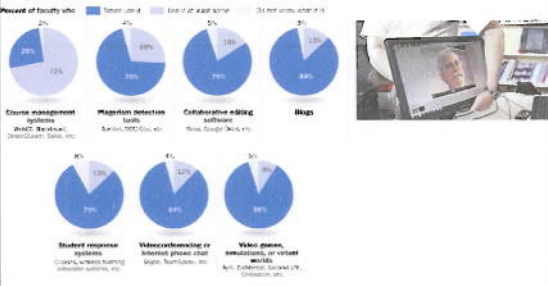
August 9, 2010 10:57 AM EDT

Bill Gates Predicts Technology Will Make 'Place-Based' Colleges Less Important in 5 Years
 Bill Gates predicts that technology will make place-based colleges less important in 5 years. He says that online education is the future and that colleges should focus on providing a high-quality education that is not tied to a specific location.

Bill Gates on in-person vs. online edu.



July 25, 2010, Professors' Use of Technology in Teaching, Jeffrey Young, Chronicle of Higher Education



Percent of faculty who:

- Spent less than 1 hour per week on technology: 2%
- Used it at least once a week: 72%
- Did not use, absent or ill: 26%

Course management systems: Blackboard, Canvas, FutureLearn, etc. (72% use)

Assignment delivery tools: Turnitin, Moodle, etc. (41% use)

Collaborative editing software: Wikis, Google Docs, etc. (18% use)


Blogs: 84% use

Student response systems: Clickers, Socrative, etc. (79% use)

Videoconferencing or internet phone chat: Skype, Zoom, etc. (41% use)

Video games, simulations, or virtual worlds: Second Step, etc. (30% use)

May 24, 2010 Author Nicholas Carr, The Web Shatters Focus, Rewires Brains, Wired
http://www.wired.com/magazine/2010/05/ff_nicholas_carr/



MAGAZINE


Author Nicholas Carr: The Web Shatters Focus, Rewires Brains

Question: What is the Web?


- An entertainment system?
- A writing aid?
- A communications system?
- A means to handle commercial transaction?
- A social networking device?

=====


No, it is a learning tool!



Answer: The Web of Learning



The Web of Learning



The Networked Teacher

- Teacher Development Communities
- Personal Media
- Print & Digital Resources
- Local Community
- BLOGS
- WIKIS
- Video Conferences
- Chatter
- Social Networking Services
- Digital Form/Online Communication
- Social Bookmarking
- Digital Photo Sharing
- Open Source
- Collaborative
- Curriculum Enrichment
- Colleagues

The Explosion of the Web 2.0

Periodic Table of the Internet

Illustration of a person standing next to a trash can, symbolizing the 'explosion' or 'garbage' of the web.

Today we have the Web 2.0

August 2, 2010 Time spent on Facebook, Twitter, YouTube grows, USA Today, Jon Swartz.

http://www.usatoday.com/tech/news/2010-08-02-networking02_ST_N.htm

22 MONDAY, AUGUST 2, 2010 USA TODAY

Time spent on Facebook, Twitter, YouTube grows

Social-network scope expands

Yearly change in share of U.S. Internet time for most heavily used sectors:

Social networks/blogs	43.0%
Games	10.0%
E-mail	-28.0%
Portals	-19.0%
Instant messaging	-15.0%
Videos/movies	12.0%
Search	1.0%
Software info	-0.0%
Multicategory	-7.0%
Classifieds/auctions	-2.0%

Source: Nielsen//NetRatings, June 2010. Source: Nielsen.

We are entering a jumping off point...

Elements of the Web's Next Generation

UCLA Summer Digs Program



Dig in, archaeology fans! UCLA blogs to offer front-row seat at archaeology digs, Meg Sullivan, 6/25/2008

David Thomas, Archeologist, La Trobe University, Australia (Discovery News)

Michael Perham & Zac Sunderland,
 Summer 2009 (each age 17, youngest person to sail solo around
 the world...and blog on it, use Skype, YouTube, take videos, post
 pictures, Minoru Saito, age 75, oldest solo sailor)

**Fox Sports News, August 21, 2010, 14-
 year-old Dutch female sailor**
<http://www.foxsports.com/other/story/dutch-teen-sets-sail-on-solo-world-trip-7011-39002>

Perhaps people learning online are akin
 to the alien archaeologists in the 2008
 movie, *Indiana Jones and the Kingdom of
 the Crystal Skull*, Indy said, "**Their
 treasure wasn't gold, it was knowledge.
 Knowledge was their treasure.**"

WE-ALL-LEARN:  

Ten Forces that Opened the Learning World

- **W**eb Searching in the World of e-Books (i.e., Darwin)
- **E**-Learning and Blended Learning
- **A**vailability of Open Source and Free Software (e.g., Moodle)
- **L**everaged Resources and OpenCourseWare (e.g., MIT)
- **L**earning Object Repositories and Portals (i.e., shared content)
- **L**earner Participation in Open Info Communities (YouTube)
- **E**lectronic Collaboration and Interaction (sync and async)
- **A**lternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- **R**ead-Time Mobility and Portability (e.g., iPhone)
- **N**etworks of Personalized Learning (Blogs, RSS)

Grandpa George (Goronja)
 (West Allis, Wisconsin, built tractors 40+ years)

Audience Participation!

1. WE 

2. ALL

3. LEARN!!!

Triple Learning Technology Convergence of "WE-ALL-LEARN"

1. **Pipes:** The availability of tools and infrastructure for learning.
2. **Pages:** The availability of free educational content and resources (OER—Open Educational Resources).
3. **Participatory Learning Culture:** A move towards a culture of open access to information, international collaboration, and global sharing.

The Learning World is Open





Opener #1. Web Searching (e.g., Google, MSN, Yahoo!) in the World of e-Books (i.e., Darwin, Shakespeare, etc.)



The Learning World is Open

Trend #1. Web Searching in the World of e-Books. What happens then?

WE
ALL
LEARN!!!

Free Online Books and now the Blio (a free e-book platform to run on any device; Bright Spots: Canada, Korea, and California)



July 29, 2010 Amazon unveils 3rd-generation Kindle e- book reader, USA Today, Edward C. Baig





April 10, 2010: Seton Hill University, 2,100 students an iPad and freshmen a 13-inch MacBook laptop. August 10, 2010, Can college students learn as well on iPads, e-books?, USA Today, Beth Marklein



July 23, 2010
India unveils \$35 computer for students,
CNN World, Harmeet Shah Singh

http://www.cnn.com/2010/WORLD/india/07/23/india.35.dollar.laptop/index.html?hpt=hp_11&hst=Shin
<http://www.cnn.com/video/#/video/world/2010/08/19/1.com.laptop.land.cnn?hst=TX>

Opener #2. E-Learning and Blended Learning

The Learning World is Open

Letter from Bill Gates about online learning (January, 2010)

<http://www.gatesfoundation.org/annual-letter/2010/Pages/education-learning-online.aspx>

Salmon Khan (Khan Academy) (videos on math, bio, trig, chemistry, money and banking, economics, statistics, etc.; <http://www.khanacademy.org/>)

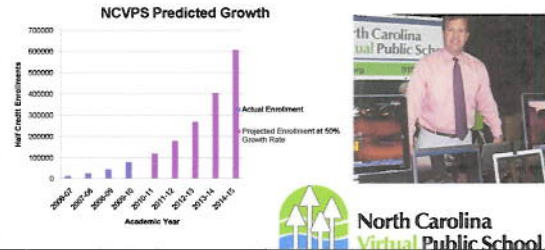
A Grain of Rice: A Bloomington man's computer vocab game feeding the world (John Breen)

Adora Svitak, age 12, World's Youngest Teacher

Florida Virtual School, 71,000 unique students
 This is half credit completions, which means all included have successfully completed a half credit enrollment (per Julie Young, June 2, 2010)



North Carolina, The enrollment figures are based on half-credit enrollments, and assumes an average growth of 50% per year (actual has been 79%). (per Dr. Bryan Setser, Executive Director, North Carolina Virtual Public School Learn and Earn Online, July 6, 2010)



Indiana University High School
 (4,000 students and 1,400 enrolled in diploma programs)



Capella Tower
 225 South Sixth Street, Minneapolis
 Formerly, the "Halo"



U. of California System Proposing Online Ed
 Chronicle of HE, May 14, 2010, Josh Keller and Marc Perry
 "The university plans to spend about \$250,000 on each course. It hopes to raise the money from external sources like foundations or major donors."



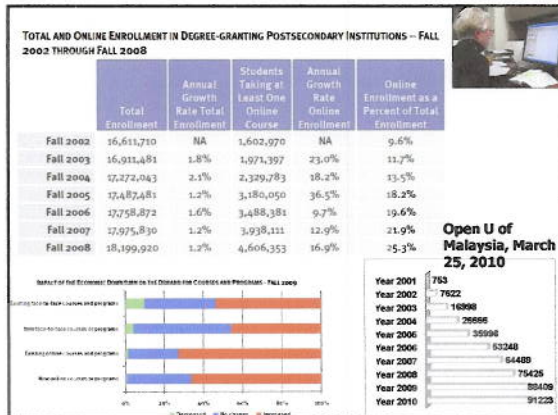
iSMART: Integration of Science, Mathematics, and Reflective Teaching (iSMART) is a FREE 2-year online graduate program for middle school science and mathematics teachers in Texas, University of Houston

<http://www.coe.uh.edu/mycoe/CUIN/math/iSMART%20 flyer4.pdf>
<http://www.coe.uh.edu/mycoe/CUIN/math/iSMART.cfm>

You see the big picture. You find the connections.
 Make it official - become iSMART.



Jen Chauvot and Mimi Lee, Univ of Houston



Mexico's Monterrey Tech Pushes E-Learning, as Some Worry It Won't Solve Region's Burgeoning Need June 16, 2010, Chronicle of Higher Ed, Marion Lloyd

"A decade ago, only one in 50 Mexicans had access to the Internet. Today that figure is one in four, a staggering cultural transformation that is fueling a boom in online degree programs in the country."

Monterrey Institute of Technology and Higher Education...has allowed it to reach more than 35,000 new students

U.S. DEPARTMENT OF EDUCATION

Evaluation of Evidence-Based Practices in Online Learning
A Meta-Analysis and Review of Online Learning Studies

Opener #3. Availability of Open Source and Free Software (e.g., Linux, Apache, Moodle, Sakai)

The Learning World is Open

Moodle (35+ million users (930,000 registered) in 213 countries, nearly 50,000 sites, 3.5+ million courses, June 27, 2010)

Opener #4. Leveraged Resources and OpenCourseWare (OCW) (e.g., free courses from MIT, Utah State, CORE, OOPS)

The Learning World is Open

MIT OPEN COURSEWARE

Open Yale

Exc Traditional Textbooks

We Remix Open Textbooks!

Open Educational Resources (OER) Post Courses in YouTube and iTunes (e.g., Berkeley)

The image shows a collage of educational content from Berkeley University of California. It includes a YouTube channel page with video thumbnails, a course page for 'Berkeley' with a list of subjects, and various educational materials and logos.

Opensource Opencourseware Prototype System (OOPS) funded by, the Foundation of Fantasy, Lucifer Chu, Chairman and Janitor of OOPS, Taipei)

The Biggest OCW Localization Volunteer Group in the World

The image displays the OOPS website, which features a header with the text 'The Biggest OCW Localization Volunteer Group in the World'. Below the header are several photos of people and a large logo for 'OOPS OpenSource Opencourseware Prototype System'. The website also includes a navigation menu and a list of courses.

Sample OpenCourseWare Projects (Tufts, Johns Hopkins)

The image shows a screenshot of the Tufts OpenCourseWare website. The main content area displays a course page for 'OP200 Pathophysiology of Infectious Diseases, Fall 2004/2005'. The page includes a large image of a red insect, a search bar, and a list of course materials.

National Repository for Online Courses (NROC) Commons

The image shows the NROC Commons website, which is a national repository for online courses. The website features a header with the text 'NROC Commons' and a navigation menu. Below the header are several photos and a large logo for 'NROC Commons'.

Peer2Peer University and University of the People (free!)

Neeru Paharia is behind Peer2Peer University, Fast Company, September 2009, How Web-Savvy Edupunks Are Transforming American Higher Education

The image is a collage of articles and website screenshots. It includes a screenshot of the Peer2Peer University website, a screenshot of the University of the People website, and several articles from Fast Company and other sources. The articles discuss the impact of web-savvy edupunks on American higher education.

July 23, 2010 Online Course Construction Gets a 'Do-It-Yourself' Web Site, Sophia Li, Chronicle of HE, Nixty (<http://nixty.com/>)




The image shows two website screenshots. On the left is a screenshot of the Chronicle of Higher Education website, featuring an article titled 'Online Course Construction Gets a 'Do-It-Yourself' Web Site, Sophia Li, Chronicle of HE, Nixty'. On the right is a screenshot of the Nixty website, which is a 'do-it-yourself' web site for online course construction. The Nixty website features a header with the text 'NIXTY' and a navigation menu.

Opener #5. Online Learning Object Repositories and Portals (shared content)

The Learning World is Open





A Single Group Helps Trigger an Online-Publishing Explosion

The Public Knowledge Project, a nonprofit group, estimates that the online-publishing software it offers free has grown into more than 5,000 open-access academic journals around the world. Below is their geographic distribution, by continent, as of last month.


College 2.0: More Professors Could Share Lectures Online. But Should They?, Chronicle of HE, Jeffrey R. Young, March 7, 2010

"The introduction of video into almost every aspect of our learning and work tasks is profound and "disrupting." As designers, we must experiment with these formats – looking for evidence and appropriate use cases and examples of when not to use video." (Video blogs, Webinars, Webcasts, keynotes, etc., Elliott Masie, Learning Trends, March 2, 2010)



How about rich video portals? Most of the Websites below did not exist 5 or 10 years ago.

- BBC News Video and Audio
- CNN.com Video
- MSNBC.com
- Google Video, Yahoo Video
- Current TV
- Fora TV
- MIT World
- YouTube, YouTube Edu
- TeacherTube
- Link TV, Explore, Global Pulse, Latin Pulse
- Howcast, Big Think, WonderHowTo, Explo.TV, NASA TV, ClipChef, TV Lesson, BookTV, Edutopia videos, MonkeySee, doFlick, the Research Channel, iVideosong



How TED Connects the Idea-Hungry Elite, Fast Company, Anya Kamenetz, September 1, 2010

<http://www.fastcompany.com/magazine/148/how-ted-became-the-new-harvard.html>

Chris Anderson: The entrepreneur bought TED in 2001. "It felt like something you could devote your life to," he says

Link TV: Global Link of World Educators (GLOWE)



More Shared Online Video: Academic Earth, TV Lesson, and Fora TV



Tracking Live Internet Thawing: A Colossal of an Idea

Ida (a transitional species) 47-Million-Year-Old *Darwinius Masillae* Fossil the Missing Link? (wowOwow, May 20, 2009)

Human Brain Dissected Today in a Live Webcast, Chronicle of Higher Education, December 02, 2009, 01:00 PM ET

http://chronicle.com/blogPost/Human-Brain-Dissected-Today-in/90537?id=pm&utm_source=pm&utm_medium=en

The Complete Works of Charles Darwin

The Carlyle Letters Exploring Victorian World Through Letters and The Diary of Samuel Pepys (Great Plague, Great Fire, Charles Dickens, Erasmus Darwin, Mary Wollstonecraft Shelley, Robert Browning, John Stuart Mill, Ralph Waldo Emerson, Elizabeth Barrett Browning, and Alfred Tennyson)

The Royal Society 350th anniversary celebrations puts historic papers online (Captain Cook, Sir Isaac Newton and Benjamin Franklin), BBC, Nov 30, 2009

<http://news.bbc.co.uk/2/hi/science/nature/8381425.stm>

Sharing Repositories and Referatories

MERLOT.org: 78,472 members, 21,690 Inrg materials, Jan 3, 2010
Connexions: Dec 2009, 1.6m unique users, 4 million page views, 72 million hits, More than 1m users, 200 countries
National Repository of Online Course, OER Commons

Opener #6. Learner Participation in Open Information Communities (e.g., Slashdot, Digg, Wikipedia, YouTube)

The Learning World is Open

John Dewey, Seymour Papert, John Seely Brown, Ivan Illich, Stephen Heppell, Henry Jenkins

Wikis: Wikipedia and Wikibooks

Social Learning Unleashed

Chief Learning Officer, April 2010

Driving greater collaboration: With 17,000 internal blogs and 53,000 employees on Social Blue, IBM's version of Facebook, and 500,000 participants in the company crowdsourcing jams, IBM's social media usage has become big business. As of 2008, IBM's jams identified 10 incubator businesses with the potential of reaching \$100 million.

Conference to Conference (You Ustreamed my Ustream: Now that's a Twitter of an Idea)

Shared Online Video (e.g., YouTube and the Royal Channel)



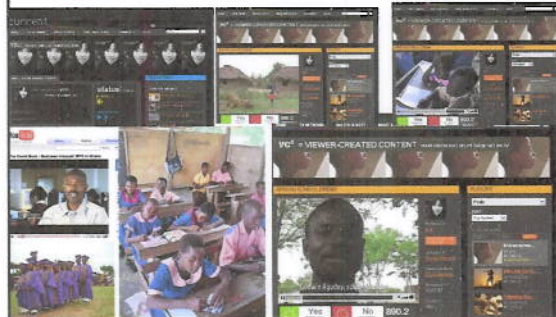
TravelinEdMan (YouTube)

<http://www.youtube.com/user/TravelinEdMan>

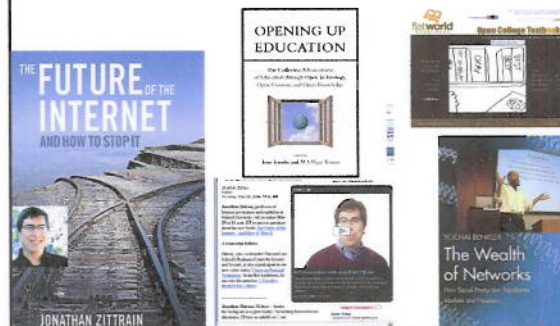


Individual Produced Videos (e.g., African School Dream in Current TV)

http://current.com/items/77146082_african_school_dream



Participatory E-Books

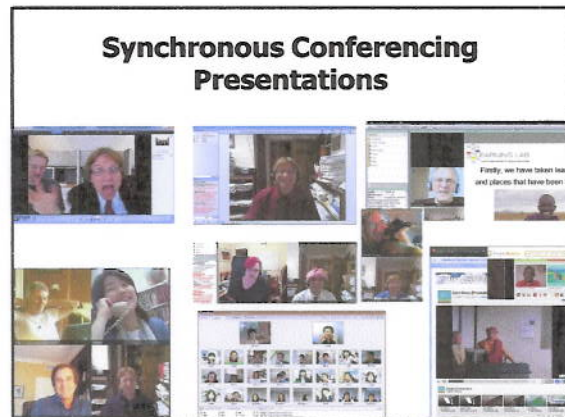
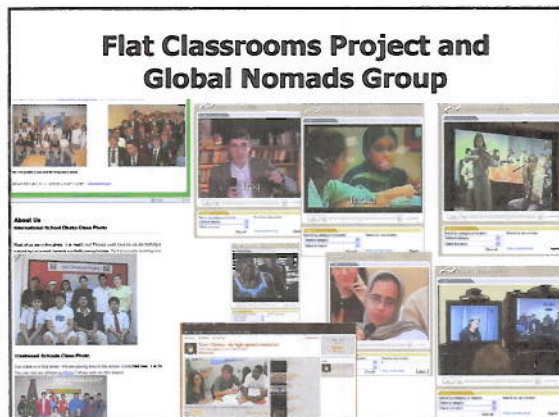
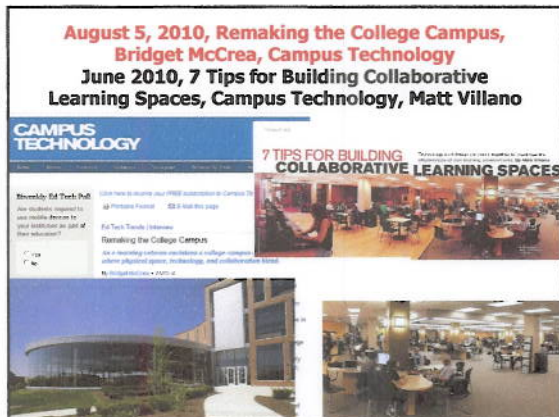


Scribd: Documents on Web (<http://www.scribd.com/>; 50 million unique visitors per month, 10's of millions of documents, April 2010)



Opener #7. Electronic Collaboration and Interaction (synchronous & asynchronous)





The Next Generation of Videoconferencing Chronicle of HE, October 21, 2009

07/08/09 12:07:39
The Next Generation of Videoconferencing

Footage courtesy of USC Institute for Creative Technologies

Researchers at the University of Southern California and the University of North Carolina are creating new tools that may allow for people attend videoconferencing

Opener #8. Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)

The Learning World is Open

Second Life (business, law, education, English, medicine)

Opener #9. Real-Time Mobility and Portability (e.g., iPhone, low cost wireless devices)

The Learning World is Open

We Are Going Mobile!

40,000 new mobile subscribers a week in Rwanda; Rwanda Newtimes report, January 2009
Africa is the continent with the fastest growth, International Telecommunications Union (ITU), March 2009

India: In January, 2009, the number sky rocketed to 15.4M
 Globally: 60,000 new mobile subscriptions every hour!!!

(per Paul Kim, Stanford, 2009); Nokia Research Lab
http://news.yahoo.com/s/afp/20090305/bs_afp/indiaeconomytelecom

"A" is for App, Anya Kamenetz, Fast Company, April 2010

Social Networking Gaming (e.g., Farmville)
 For social networks, it's game on, USA Today, Jon Swartz, Thursday October 15, 2009

June 9, 2010

TwitterPeek: Restricted to Twitter.

WikiReader: Updating can be a pain.

Opener #10. Networks of Personalized Learning (Blogs, Podcasts, MySpace, Flickr, and RSS)

September 30, 2009
 the Samsung DualView TL225

August 10, 2010
 Flipboard pretties up social-media updates
 Facebook statuses and tweets feed into
 magazinelike format in free app for iPad
 Jefferson Graham, USA TODAY
http://www.usatoday.com/printedition/money/20100811/flipboard11_st-art.htm

Some Papers Are Uploaded to Bangalore to Be Graded, Chronicle of Higher Education, April 4, 2010, Audrey Williams June

Lori Whisenant, who teaches business law and ethics at the U. of Houston, has outsourced the grading of students' papers to a private company.

July 21, 2010 vs. Sept 28, 2009
 Status update: Facebook logs 500 million members, USA TODAY, Kristin McGrath

SOCIAL NETWORKING
 Top social networking sites
 Total number of users in August (from home, work, college)

Facebook.com	52.2 million
MySpace.com	41.7 million
Twitter.com	24.8 million
Digg.com	17.4 million
Classmates.com sites	12.8 million
Second Step (part of hi5)	12.1 million
hi5.com sites	11.4 million
Friendster.com	10.3 million

Teaching With Twitter

Chronicle of HE, Jeffrey Young, November 22, 2009
 Sugato Chakravarty, a professor of consumer sciences and retailing at Purdue University, has welcomed Twitter into the lecture hall, even though the service lets students engage in back-channel discussions. The questions submitted via **Hotseat** for the professor and guest speakers are projected for all the students to see.

Predictions

1. Five Billion "Have-Nots" Have at It!
2. Emergence of Lifelong Super E-Mentors/Coaches
3. Quarter-Century Learning Clubs
4. Terabyte Learning Access Points
5. The Veneration of Learning
6. Personalization+ Portfolios
7. The Selection of Global Learning Partners
8. The Shared Learning Era
9. Teaching-Learning Perpetuities
10. Teachers, Teachers
11. The Rise of the Super Blends
12. Self-Determined Humans
13. Free Learning Zones
14. Authentic Learning Amalgamations
15. Alexandrian Aristotiles

Decisions for this Open Ed World?

- **Technology and Admin Folks:**
 - What do to about OER, open sources, E-books, mobile, etc.?
- **Instructor decisions:**
 - Act as Concierge, Counselor, Course facilitator, Credit manager?
- **Students decisions:**
 - Should I attend traditional university or create your own degree path?
 - How to report use of OER on resumes?

- This book is an attempt to reveal a wide range of learning options in front of you while also offering you a framework to make sense of them. As the Grail Knight said in the 1989 movie, *Indiana Jones and the Last Crusade*, "choose wisely." If you do, **WE-ALL-LEARN**. The world is now open to you!

Slides at: TrainingShare.com
 Papers: PublicationShare.com
 Book: <http://worldisopen.com/>

The World is Open.
 What happens then?

WE

ALL

LEARN!!!