

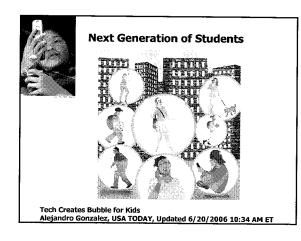


#### Monday April 30, 2007, USA Today Top 25 Things that Shaped the Internet

- 747 Million adults logged on in Jan, 2007
- 97 billion e-mails are sent each day
- Google had 500 million visitors in Dec, 2006
- USA: 1% broadband in 1998; 78% in 2007
- YouTube bought by Google for \$1.7 billion
- Adobe's Flash player on 98% of machines
- There are 75 million blogs!!!
- 19 million people play MMOG!
- 173 million personalized pages in MySpace

# Poll #1: Raise your hands if you are a digital native (grew up with a computer at home).

Digital kids

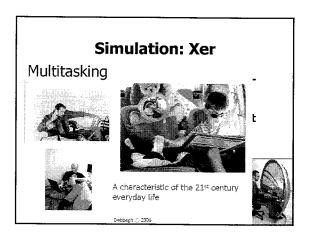


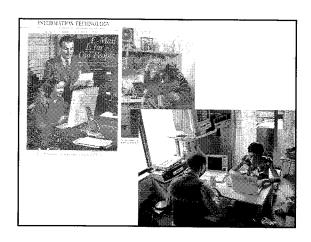


# **Neomillenial Learning Styles**

Planning for Neomillennial Learning Styles: Implications for Investments in Technology and Faculty Chris Dede, H*arvard University, Educause, 2005* 

- Fluency in multiple media--value all types of communication, activities, experiences, not a single best medium
- Actively seek, collect, and synthesize experiences, rather than absorb a single best source
- Active learning and collective reflection
- Non-linear and associated webs of learning
- Co-design of learning experiences for individual needs and preferences not precustomized





# **Bonk's Addiction Q'er**

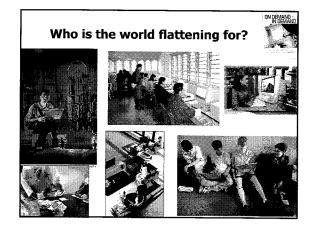
- 1. Who has 2 or more cell phones with Internet access?
- Who has 2 or more laptop computers with wireless connections?
- 3. Who is on email in the morning? At noon? Who does it at night?
- Who suffers from nervous tension when you cannot get on email?
- 5. Who is on the Web right now?



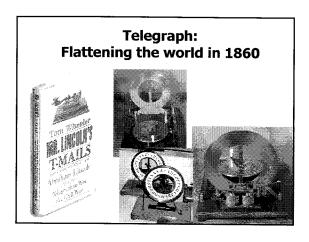
# The Ten Forces that **Flattened the World**

- 11/9/89: Berlin Wall came down
- 8/9/95: Netscape went public
- Work Flow Software (e.g., PayPal and eBay)
- Open-Sourcing (Self organizing collaborative communities; Mosiac, Apache, Wikipedia, Linux, Mozilla/Firefox, )
- Outsourcing (Y2K)
- Offshoring (e.g., China, Mexico, Thailand)

- Orisioring (e.g., China, Mexico, Inailand)
  Supply-Chaining (e.g., Walmart)
  Insourcing (UPS fixing Toshiba laptops)
  In-forming (e.g., Google, Yahoo!, MSN Web Search)
  The Steroids: Digital, Mobile, Personal, and Virtual
  (e.g., wireless, file sharing, VoIP, video camera in
  phone)







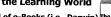


Lostroh and Kelsey Cardiff check out a weblog discussion related to the Civil War historical-fiction book 'Guerrilla Season' At South Valley Junior High School in Liberty, Mo. (Blogging now begins young USA Today, By Ashley Bleimes, USA TODAY, November 15, 2006, 12D). http://www.usatoday.com/life/2006-11-14-blogseducation\_x.htm



#### **WE-ALL-LEARN:**

Ten Forces that Opened the Learning World



- Web Searching in the World of e-Books (i.e., Darwin) The Learnin World is Fl Enormous E-Learning and Blended Learning
- Availability of Open Source and Free Software (e.g., Moodle)
- Leveraged Resources and OpenCourseWare (e.g., MIT)
- Learning Object Repositories and Portals (i.e., shared content)
- Learner Participation in Open Info Communities (YouTube)
- Electronic Collaboration and Interaction (sync and async)
- Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- Real-Time Mobility and Portability (e.g., iPhone)
- Networks of Personalized Learning (Blogs, RSS)

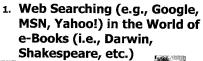


#### Three Larger Trends of **WE-ALL-LEARN**



- The availability of tools and infrastructure for learning.
- The availability of free educational content and resources (OER-Open **Educational Resources).**
- A move towards a culture of open access to information, international collaboration, and global sharing.

# The Ten Forces that Flattened the World













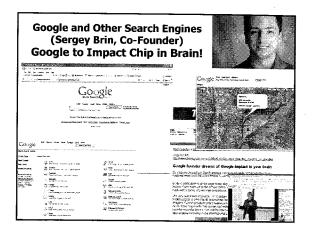
The Search is on!

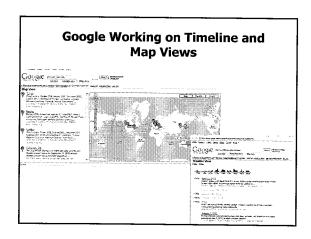


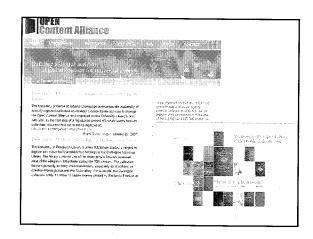


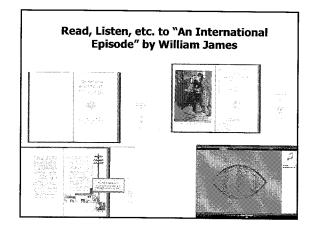
New programs teach undergraduates how to use the Internet and the online card catalog in search of the best sources Chronicle of Higher Education, Andrea Foster, March 9, 2007 http://chronicle.com/free/v53/i27/27a03801.htm

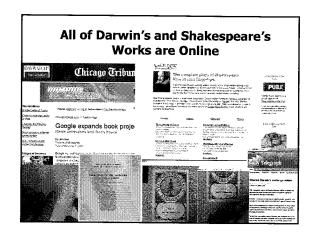
■ The explosion of electronic information is fueling students' confusion, librarians say. In 1996 there were 10,000 scholarly databases online; now they exceed 18,000. The Web is teeming with more than 100 million sites, up from 18,000 in 1995. Google and Microsoft recently began archiving books and scholarly journals and making them available via their search engines. And two online, academicoriented encyclopedias, Citizendium and Scholarpedia, are starting up...

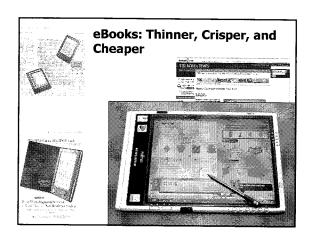


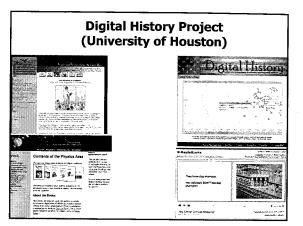






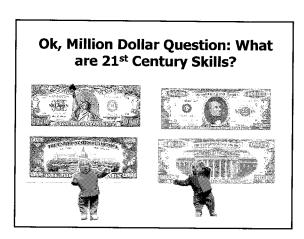






Connecting the Digital Dots: Literacy of the 21st Century Barbara R. Jones-Kavalier and Suzanne L. Flannigan Educause Quarterly (2006), 29(2)

> "These days, new media literacy technical skills catapult traditional learning methods into orbit-traditional chalkboards and overheads with pens do not occupy the same realm as current capabilities. As an example, now teachers can do a PowerPoint presentation with streaming video, instant Internet access, and realtime audio-video interaction, and they can do it with relative speed and ease."



If you had to give a word or phrase to describe "21st Century Skills," what would that word be?

Locate info, synthesize it, Decision making, Use effectively and ethically, Communicate effectively, Evaluate products, Producers and consumers of visual info, Informed critics, Sensitive to bias and cultural differences, Sets own goals, Willing to make mistakes, Comparison and contrast skills, inferencing skills, Participate in a team, exercise leadership, Manage technology for public good



What Students Need to Know: 21st Century Skills and ICT literacy; Susan D. Patrick, President and CEO **North American Council for Online Learning** 

The future will demand people who can express themselves effectively with images, animation, sound, and video, solve real world problems that require processing and analysis of thousands of numbers, evaluate information for accuracy, reliability, and validity; and organize information into valuable knowledge, yet students are not learning these

valuable knowledge, yet students are not learning these skills in school.

From: The Partnership for 21st Century;

www.21stCenturySkills.org. Report: are they really ready to work (2006).

http://www.21stcenturyskills.org/documents/FINAL\_REPORT\_PD F9-29-06.pdf









What Students Need to Know: 21st Century Skills and ICT literacy; Susan D. Patrick, President and CEO North American Council for Online Learning

- Information and communication skills:
- Thinking and problem-solving skills;
- Interpersonal and self-direction skills;
- Global awareness;
- Financial, economic, and business skills; and
- Civic literacy.

From: The Partnership for 21st Century; <u>www.21stCenturySkills.org</u> Report: are they really ready to work (2006). http://www.21stcenturyskills.org/documents/FINAL\_REPORT\_PDF9-29-06.pdf

#### Digital Literacy (Bonk, June 2, 2007)



Digital literacy is the ability to browse, locate, filter, synthesize across, and eventually use information appearing in multiple formats and in a wide range of sources that can lead to communication of what one discovered as well as the production of still additional information. (Paul Gilster (1997), Digital Literacy.)

# Digital Literacy (Bonk, June 2, 2007)

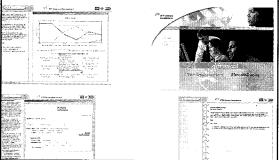
Digital literacy is not only technology related knowledge, skills, and competencies, but also the critical and creative thinking skills as well as ability to engage in collaborative teams to find and solve problems in a technologically reliant society or environment.



New programs teach undergraduates how to use the Internet and the online card catalog in search of the best sources Chronicle of Higher Education, Andrea Foster, March 9, 2007 http://chronicle.com/free/v53/127/27a03801.htm

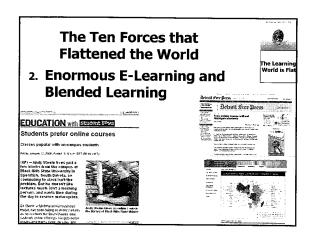
■ Among the most well known is the ICT Literacy Assessment, which was developed and is administered by the Educational Testing Service, a nonprofit group based in Princeton, N.J. "ICT" stands for "information and communication technology." The 75-minute test, offered at two levels, measures students' ability in seven areas, including organizing, evaluating, and communicating with electronic data.

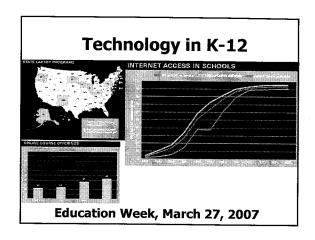
# New Forms of Digital Literacy (new tests from ETS)

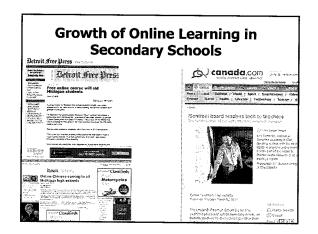


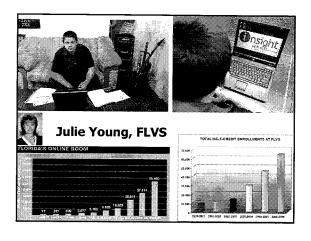
#### Technology for Tracking Eye Movements

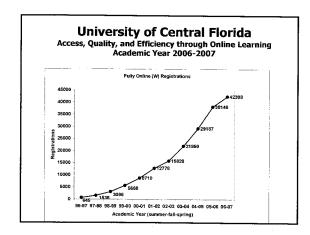


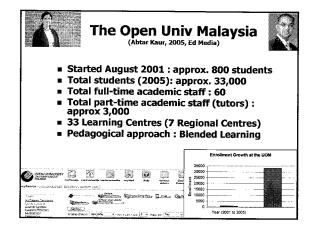


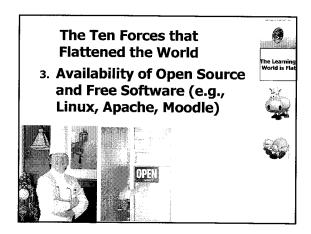


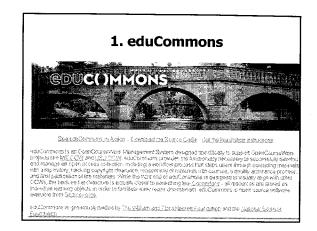


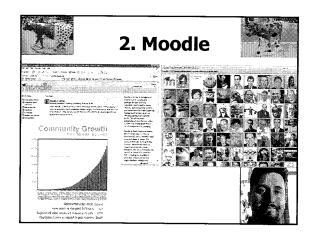


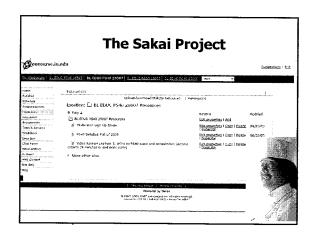


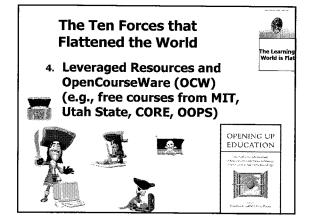






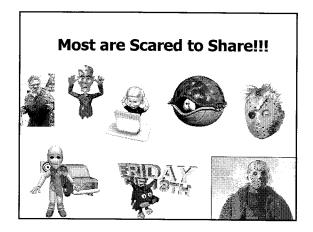


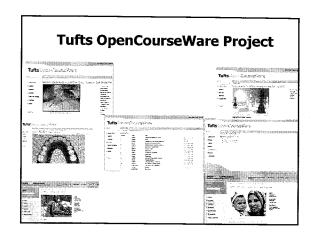


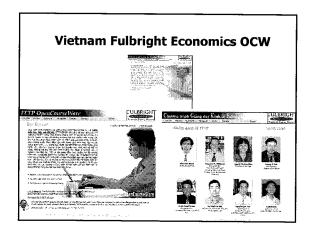


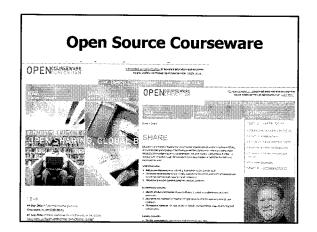
#### Do You Share?

- 1. Who has shared music in an iPod or MP3?
- 2. Who has used collab software? (Google Groups, Yahoo Groups, Sharepoint)
- 3. Who has used online phone services such as Skype or Google Talk?
- 4. Who has assigned teams online?
- 5. Who has embedded international exchanges or expert guests?
- 6. Who has used MERLOT, Connexions, or the MIT open courses?
- 7. Who has used Wikipedia?







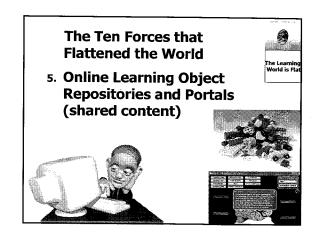


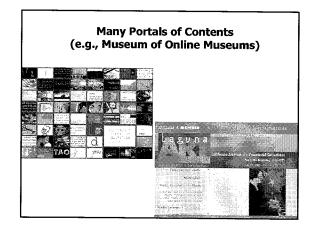
Per David Wiley, Utah State University (October 2005)

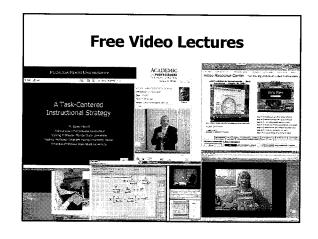
"This is a message that should probably get out, also - not only is this movement worldwide and gaining momentum every day, it is also becoming a key part of international strategy to achieve equitable access to education for people everywhere."

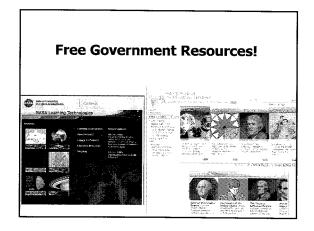


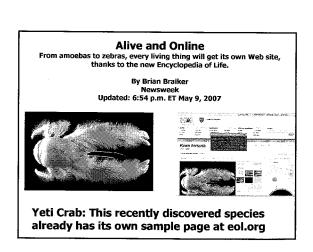


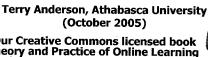








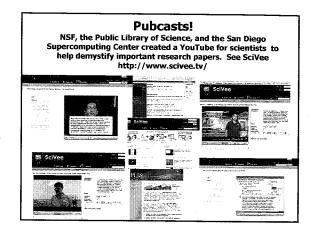


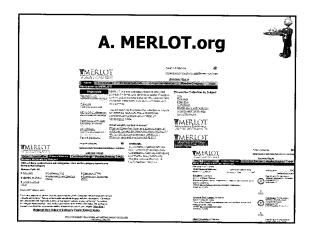


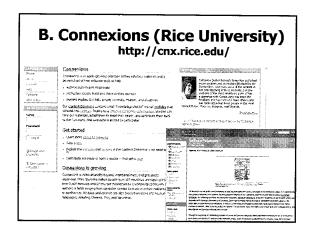
"Our Creative Commons licensed book Theory and Practice of Online Learning has been downloaded over 55,000 times (full text) and more by individual chapters. Parts have been translated into 6 languages and we are nearly sold out the 500 copies we printed at \$50 a pop. So it is quite a success story."

Anderson, Terry & Fathi Elloumi (Eds). (2004). Theory and practice of online learning. Canada: Athabasca University. http://cde.athabascau.ca/online book/









C. Global Education and Learning Community (GELC) (Kirkpatrick, Dec 22, 2006, CNN Money)

■ The Global Education and Learning Community (GELC) aims to bring the principles of open source to education. Scott McNealy, former CEO of Sun Microsystems, is working to create a free universal curriculum from Kindergarten to 12th grade in every major subject. Any educator/researcher can contribute and it will be in any language.





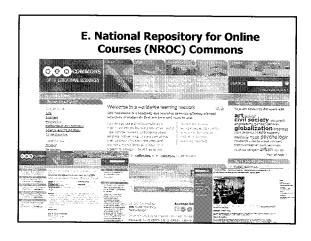


D. Google School Resources such as Google Docs and Spreadsheets, an open alternative to Microsoft's Word and Excel

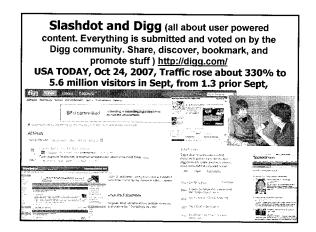
#### Google enrolls teachers in online <u>software crusade</u>

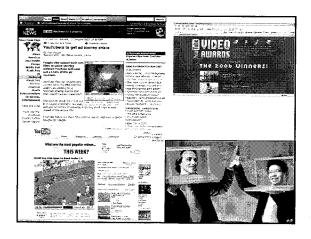
Dec 3, 2006, USA Today Michael Liedtke, Associated Press Google enrolls teachers to spread work online software

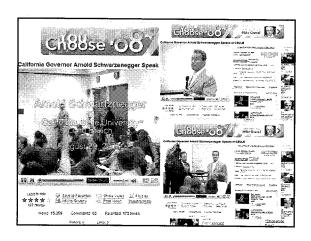
Palo Alto High School journalism teacher Esther Wojcicki helps student Allison Wyndham at a computer during journalism class in Palo Alto, Calif. Wojcicki is helping Google bring its online suite of software applications to classrooms across the country



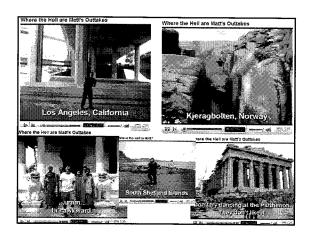


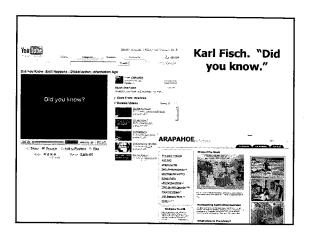


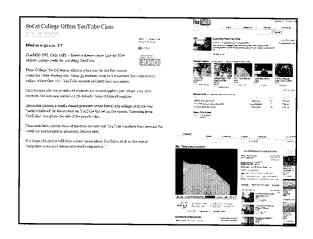


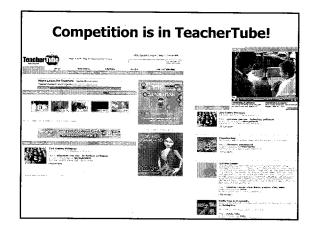


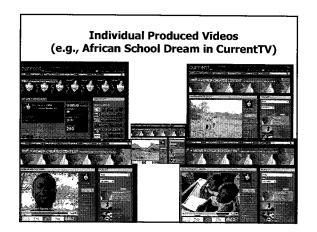




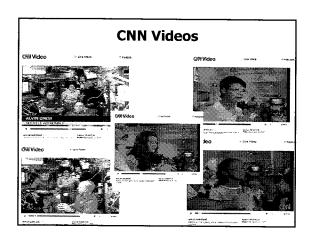


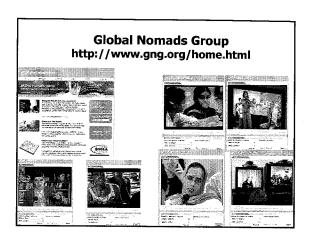


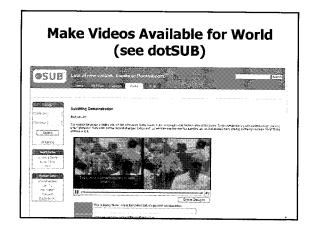


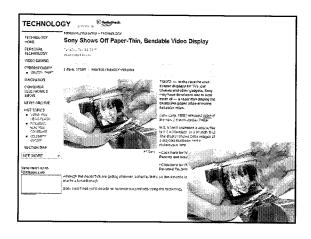


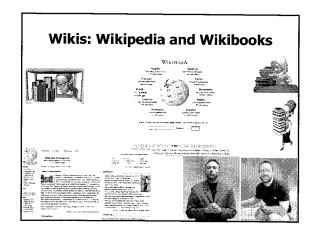


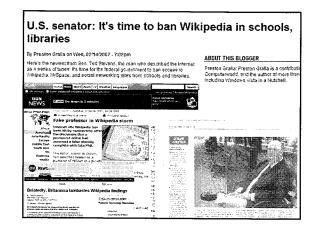


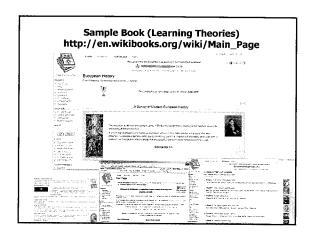


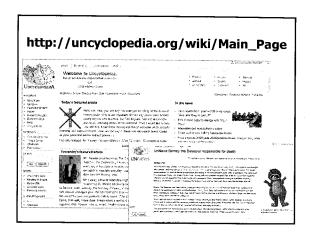


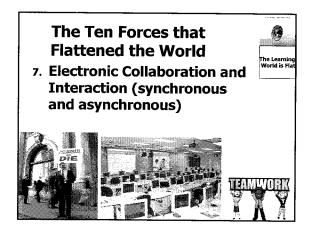


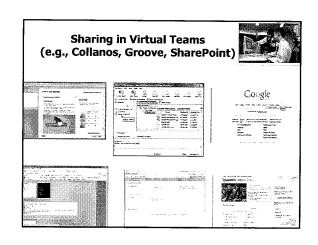






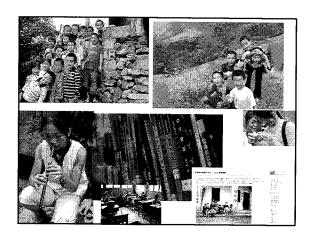


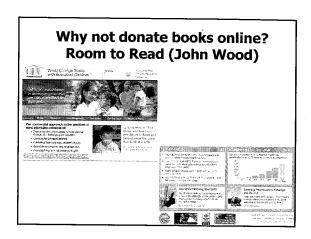


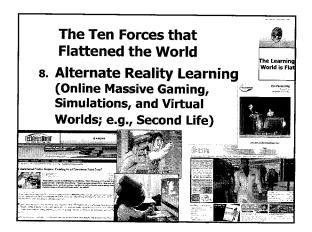


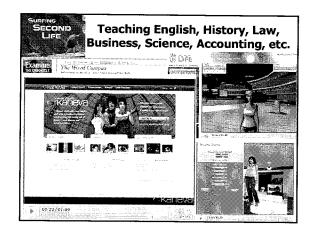


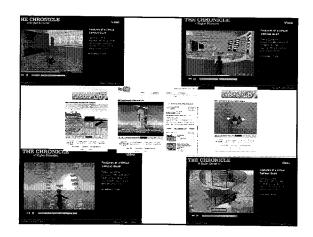


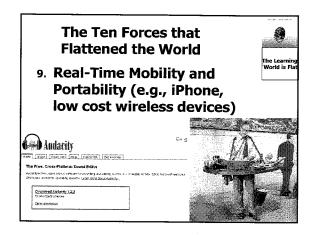


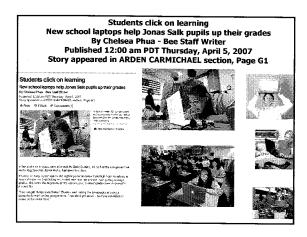


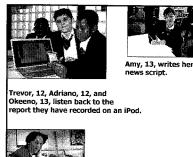












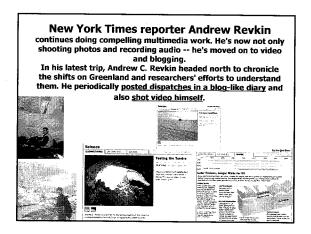






Urvas, 12, and Ivan, 12. research their news story.

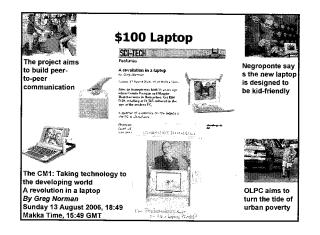
Lambeth CLC technician George Belfield edits the students' work.

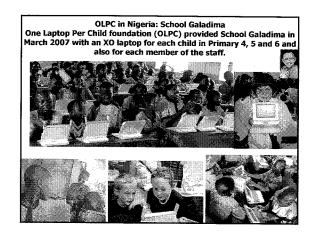


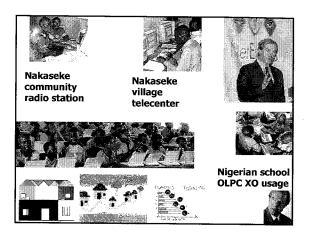


- Singapore, the island city-state in Southeast Asia, is about to complete a major new public/private project that will see large chunks of the 270 square mile city provided with Wi-Fi access by the end of 2008. The entire city, indoors and out, is due to be covered by 2015.
- In the coldest capital in Canada, the city residents of Iqaluit (pop. 6,000) enjoy free wireless from one free hotspot (with two more due soon to cover the suburbs), while Taipei, Taiwan (pop. 2.6 million) has a few more—over 4,000 hotspots that provide coverage for 90 percent of the city.

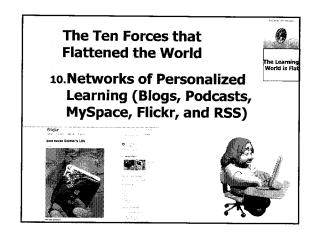


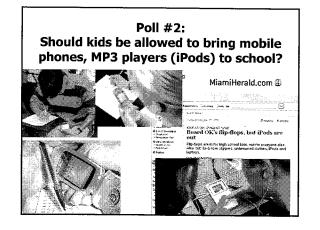


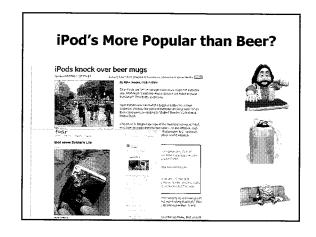


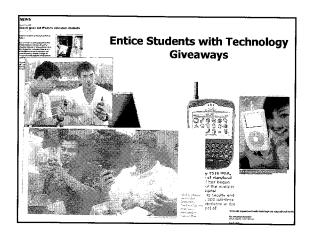


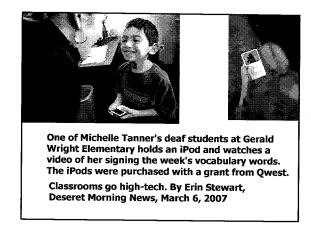


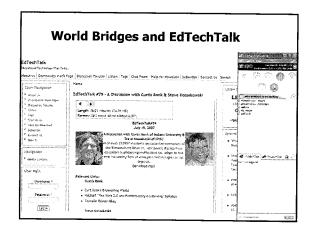


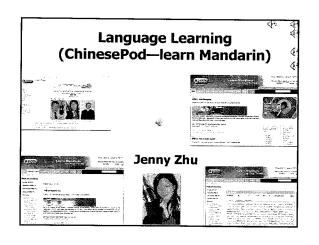


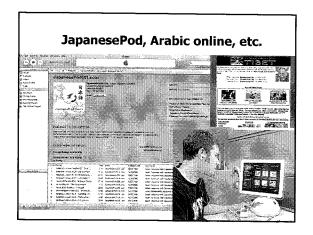












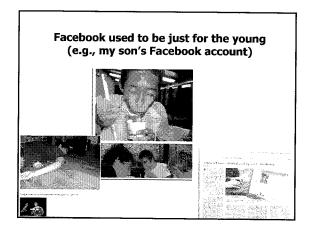


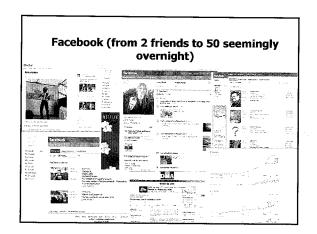
# **Social Networking Software**

- Classmates: http://www.classmates.com/
- Facebook: http://www.facebook.com/
- Friendster: http://www.friendster.com/
- Friendzy: http://www.friendzy.com/
- MySpace: http://www.myspace.com/
- Orkut: https://www.orkut.com/
- Tribes: http://www.tribe.net/
- YouTube: http://www.youtube.com/

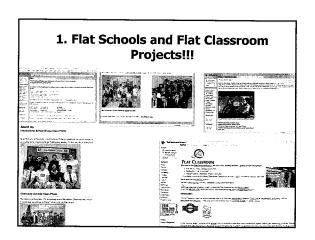


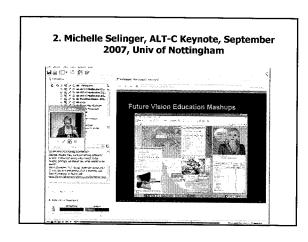
billion in revenue by 2016.

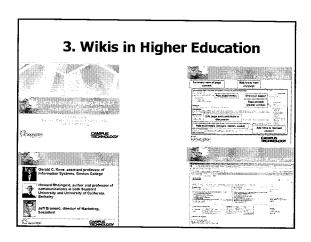


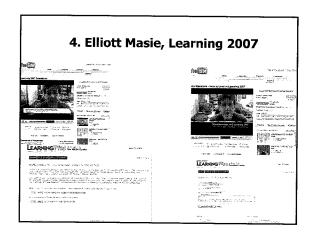


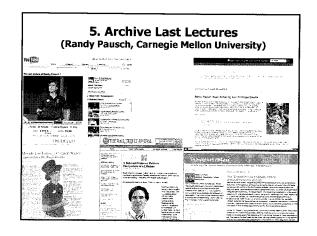
Combining Web 2.0 and Technology Trends (Ten Examples)

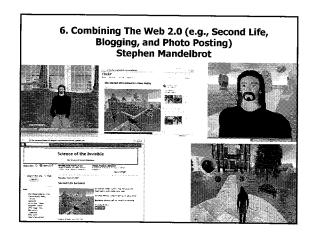


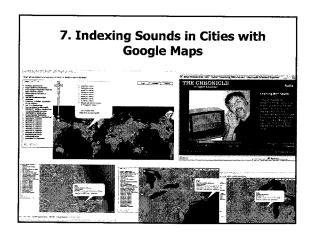


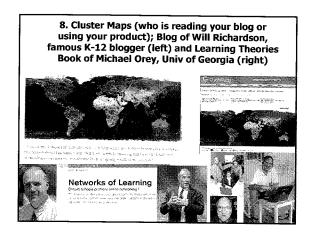


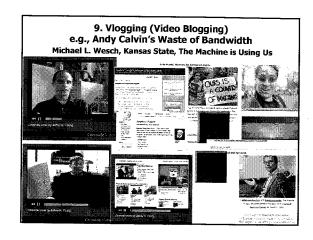




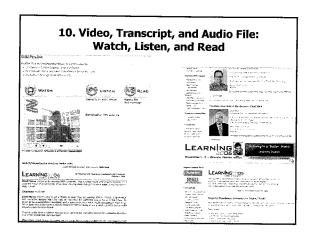












# **Sharing Questions (today)**

- For what purpose will people share?
- Who will continue to maintain or update such sites?
- Will online sharing become expected of all faculty members around the planet?
- How will copyright issues be addressed?
- What happens when one did not mean to share his or her course contents or ideas, or, at least, not as widely?
- How will such learning objects of today be viewed in 100 or 200 years?

