No Stopping This Train: How Web Technology Is Revolutionizing Education

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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. 6/9/95: Netscape went public
3. Work Flow Software (e.g., PayPal and eBay)
4. Open-Sourcing (Self organizing collab communities; Mozilla, 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!, NSF Web Search)
10. The Stereoids: Digital, Mobile, Personal, and Virtual (wireless, file sharing, VoIP, video camera in phone)

Oregon Scientific Smartglobe 2008

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

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)

David Thomas, Archeologist, La Trobe University, Australia (Discovery News)
Charles Wedemeyer  
Learning at the Back Door (1981)  
Nontraditional Learning

WE-ALL-LEARN:  
Ten Forces that Opened the Learning World  
- Web Searching in the World of e-Books (i.e., Darwin)  
- 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)

Audience Participation!  
1. WE  
2. ALL  
3. LEARN!!!

Triple Learning Technology  
Convergence of “WE-ALL-LEARN”  
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.

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

WE
ALL
LEARN!!!

This Could Be the Year of e-Textbooks
Many titles are available, but students are wary.
Jeffrey Young, September 7, 2009

Sign of the times: At the San Diego State U.
bookstore, a poster exhorts students to "Buy This
Textbook as an eTextbook."

E-books: 4 choices (Paperback,
Kindle, iPhone, or iPod listening)

Free Online Books
(Terry Anderson and Pati Elliott, eds. Theory and Practice of Online
Learning: Canada: Athabasca University, 2004),
http://ode.aubascu.ca/online_book/, 55,660 downloads in first year

Read, Listen, etc. to online books (e.g. "An
International Episode" by Henry James)

Opener #2. E-Learning
and Blended Learning
Capella Tower
225 South Sixth Street, Minneapolis
Formerly, the "Halo"

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

Adora Svitak, age 11, World's Youngest Teacher

Open Teaching
(Tom Reese Evaluation Course at Gaoling; David Wiley's Web 2.0 courses at BYU; Connectivism from George Siemens and Stephen Downes, 24 enrolled, 2,000+ sitting in)

Total and Online Enrollment in Postsecondary Institutions
Fall 2003 through Fall 2004
(Fall figures in italics)

A Grain of Rice: A Bloomington man's computer vocab game feeding the world
Opener #3. Availability of Open Source and Free Software (e.g., Linux, Apache, Moodle, Sakai)

Moodle (620,000 registered users in 204 countries speaking 78 languages, 2/10/2009)

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

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

OpenCourseWare (OCW)
Cute Kitten or Transformation?

Opensource OpenCourseware Prototype System (OOPS) funded by the Foundation of Fantasy, Lucifer Chu, Chairman and Janitor of OOPS, Taipei
Sample OpenCourseWare Projects (Tufts, Johns Hopkins)

Indian Institutes of Technology (IIT)

National Repository for Online Courses (NROC) Commons

Cape Town Open Education Declaration, Dec 2007
http://www.capetowndeclaration.org/

Peer2Peer University and University of the People (free!)

Opener #5. Online Learning Object Repositories and Portals (shared content)
Referatory: MERLOT.org
(74,500 members, 21,300 learning materials,
October 6, 2009)

Connexions Growth
January 2009
>8,000 modules (3-5 pages)
>425 collections (books and courses)
multiple languages
engineering, computer science,
nanotech, physics, statistics, math,
history, music, bio-diversity, botany,
bio-info, IF, BRZT, UNESCO, UN, Sigma,
from authors worldwide

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

Wikis: Wikipedia and Wikibooks

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)
Individual Produced Videos
(e.g., African School Dream in Current TV)
http://current.com/docs/77146082_african_school_dream

TV Lesson
(How-to lessons from experts:
1,000's of instructional videos and articles;
http://www.tvlesson.com/)

Participatory E-Books

Scribd: Documents on Web

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

Iran after the June Election
Synchronous Conferencing Presentations

Voxopop (audio threaded conversations)  
http://www.voxopop.com/

Adventure Learning, GeoThentic, GoNorth (National Geographic)  
(Aaron Doering, Univ of Minnesota)

Ice Stories Project from Antarctica

Mongolia teachers addressing H1N1  
(Otgo Okhidoi, Nov 10, 2009)
Opener #8. Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)

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

University of Texas: 50 Islands, Nov 2009
http://archive.treet.tv/metanomics-campus-life

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

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 154M
Globally: 60,000 new mobile subscriptions every hour!!!
(per Paul Kim, Stanford, 2009); Nokia Research Lab
http://www.pulse.com/101/380000816_the_iphone_vs Summon_images

Terabyte thumb Drives and Magic Pens!
(The Pulse from Livescribe, $129-$169)
TwitterPeek, WikiReader not worth the loot, USA Today, Edward Baig, November 5, 2009

TwitterPeek: Restricted to Twitter.
WikiReader: Updating can be a pain.

Mobile Learning
(April 21, 2009, USA Today)

Mobile Learning in India with Paul Kim
http://www.stanford.edu/~pjkim/curtIndia.pdf

'One Laptop Per Child' program collides with reality GEOFFREY YORK, Toronto Globe and Mail, Oct 15, 2009 Bhutan, Khendum Gyabak (University of Texas at El Paso)

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

Facebook: The New Classroom Commons?, Chronicle of HE, Harriet L. Schwartz, Sept. 28, 2009

September 30, 2009
the Samsung DualView TL225
Podcast Shows
(subscribe to ShakespeareCast.com)

Learning Towns are Popping up!

Livemocha (29 languages, 160 hours of lessons, over 2 million users, FREE!)

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 Across 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 Analogations
15. Alexandrians, Aristocles

Slides at: TrainingShare.com
Papers: PublicationShare.com
Book: http://worldisopen.com/
The World is Open.
What happens then?
WE ALL
LEARN!!!