Nothing "Flat" World About this Jazz: 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. 8/9/95: Netscape went public
3. Work Flow Software (e.g., PayPal and eBay)
4. Open-Sourcing (Self organ. collab communities; Netscape, 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: Digitat, Mobile, Personal, and Virtual (wireless, file sharing, VoIP, video camera in phone)

Is the World Flat?

Is the World Curved?

Is it spiky?

Or is it Open?
Perhaps those learning online are akin to the alien archaeologists in the 2008 movie, *Indiana Jones and the Kingdom of the Crystal Skull*. We are seeking the knowledge nuggets of our planetary past and present. As Indy said, "Their treasure wasn’t gold, it was knowledge. Knowledge was their treasure." If that is true for us as well, then today pretty much all the world’s known treasures can be found online.

**Audience Participation!**

1. **WE**
2. **ALL**
3. **LEARN!!!**
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

Bio: Kurzweil Reinvents the Book
Charlie Sorrel, Dec 29, 2009, Wired
http://www.wired.com/gadgetlab/2009/12/bio-
kurzweil-reinvents-the-book/
- Blio is a free platform...run on any device.
- Blio is in color.
- Blio lays pages seen on paper, with typography and illustrations; uses video.
- More than a million library of titles.
- The end of the book?

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

Tablet May Help E-Textbook Market, Publishers Hope
Chronicle of HE, Jeffrey Young
January 31, 2010

Guests play with Apple’s new iPad at an event announcing its debut in San Francisco. At least one college is considering giving iPads to new students, but the jury on whether the device will revolutionize learning will be out for a while.

Free Online Books
(Terry Anderson and Fathi Elouoni, eds. Theory and Practice of Online Learning; Canada: Athabasca University, 2004),
http://ode.athabascau.ca/online_book/, 55,000 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

Letter from Bill Gates about online learning (January, 2010)
https://www.billinchange.org/2010/01/20/letter-from-bill-gates-about-online-learning/

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

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

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.cox.uh.edu/proce/UMath/SMARTSTitle.pdf
http://www.cox.uh.edu/proce/UMath/iSMART,iSMART.htm
Moodle (32+ million registered users in 208 countries, 3+ million courses, 2/6/2010)

OpenTeaching
(Tom Reeves Evaluation Course at Georgia; David Wiley’s Web 2.0 courses at BYU; Connectivism from George Siemens and Stephen Downes; 24 enrolled, 2,000+ sitting in)

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

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

Peer2Peer University and University of the People (fee!)

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

Open Access Journals

A Single Group Helps Trigger an Online-Publishing Explosion

The Public Knowledge Project, a nonprofit online initiative that the online-publishing software it offers has been adopted by more than 1000 open-access academic journals around the world. It works to make research freely available to readers, but not the market.

Open Journal Systems

John Willinsky, an education professor at Stanford U. (shown here visiting the U. of Oxford), offers free journal-publishing software to academics around the world. The program is being used to produce more than 5,000 online journals, he estimates, about half of them in developing countries.

Link TV, Academic Earth, TV Lesson, and Fora TV
Sharing Repositories and Referatories
MERLOT.org: 76,472 members, 21,690 inrg materials, Jan 3, 2010
Connections: 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)

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/Items/77146081_african_school_dream
Participatory E-Books

Scribd: Documents on Web

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

Synchronous Conferencing Presentations

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

Adventure Learning, GeoThentic, GoNorth (National Geographic)
(Aaron Doering, Univ of Minnesota)
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 in Second Life, Nov 2009
http://archive.treet.tv/metanomics-campus-life

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

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

Mobile Learning (April 21, 2009, USA Today)
We Are Going Mobile!

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

India: In January, 2009, the number skyrocketed to 15.4M
Globally: 60,000 new mobile subscriptions every hour!!!
(per Paul Kim, Stanford, 2009); Nokia Research Lab

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.

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

September 30, 2009
the Samsung DualView TL22S

Podcast Shows
(subscribe to ShakespeareCast.com)

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

Chronicle of HT, Jeffrey Young, November 22, 2009

Eugene Cherry, a professor of consumer science and retailing at Purdue University, has welcomed Twitter into the lecture hall, even though the service isn't students engage in back-channel discussions. The questions submitted via Twitter for the professor and guest speakers are projected for all the students to see.

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

Predictions

1. Five Billion “Have-Notes” 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 Adjacencies
15. Alexandrian Aristotlies

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/

What happens then?

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