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

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July 22, 2011
GETideas Channel, Cisco (Education Thought Leader Series uploaded to YouTube)
http://www.youtube.com/user/GETideas89/s

April 2011
Departments Stay Afloat with new Online Ventures (new Ed.D. in IST/Ed Tech)
(e.g., http://iuconnected.iu.edu/)

Is the World Flat?
Is it spiky?

Or is it Open?

It is very open!
(May 2011, Norway & June 2011 the Philippines)

February 21-24, 2011
Graphic Facilitation, E-Learning and Distance Learning (ELI) Conference in Riyadh (Sir Tim Berners-Lee and Jimmy Wales)

May 13, 2011
Mobile Apps, USA Today, Mary Beth Marklein

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

Today we have the Web 2.0

We are entering a jumping off point...

I'm an Armchair Indiana Jones...

Summer 2009

Michael Perham & Zac Sunderland,
(cock 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)
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."

Some Educational and Psychological Heroes: John Dewey, Seymour Papert, John Seely Brown, Ivan Illich, Stephen Heppell, Henry Jenkins

Our New Heroes are not Theoretical or Psychological

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

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.

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

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

WE

ALL

LEARN!!!

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**January 5, 2011**
Week after holidays, e-book sales outdo print, USA

Today, Bob Minzesheimer and Carol Memmott

[Link](http://www.nytimes.com/2011/01/05/technology/05books.html)

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**June 13, 2011**
Massachusetts School Issues iPads to Every Student in Grade 6


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**July 6, 2011**
Pocket Dictionaries and Digital Textbook Projects (Korea), Hossna Haq, In South Korea, all textbooks will be e-books by 2015. Speeding past the US, South Korea will be digitizing reading material in all public schools by 2015. Christian Science Monitor.

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August 3, 2011
Inkling opens textbooks on the iPad
USA Today, Jefferson Graham, August 3, 2011
Some $4.5 billion worth of textbooks were sold in 2010, (Assoc. of American Pub). Digital textbooks = 3% of sales in 2013 and growing to 44% by 2017.

Who is demanding fully online and blended learning?

March 11, 2011
Those Preparing for Exams and Needing Remediation, Bill Gates, Salman Khan, NBC Special
https://www.youtube.com/watch?v=2s1I8tK9z0s

Those in hurricanes!
Those in tsunamis?  
(Japan, March 11, 2011)

Those in tornados...!  
(April 24, 2011)

Adora Svitak, age 13, World’s Youngest Teacher

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

July 2010  
North Carolina Virtual Public Schools  
(growing 79% per year)  
(per Dr. Bryan Setzer, Executive Director, North Carolina Virtual Public School)  
NCVPS Predicted Growth

February 4, 2011  
New Enrollment History Chart: Florida Virtual School (Julie Young, President & CEO)
April 12, 2011
NCTM Conference Session, Free Online Degrees; iSMART: Integration of
Science, Mathematics, and Reflective Teaching (iSMART), University of Houston

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

Jen Chauvat and Mimi Lee, Univ of Houston

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

August 12, 2011
Moodle (45 million users in 209 countries, 54,000 sites, 4.6+ million courses)

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

August 2, 2011
Sample OpenCourseWare Projects
(Tufts, Johns Hopkins)

National Repository for Online Courses (NROC) Commons

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

How about rich video portals?
Most of the Websites below did not exist 5 or 10 years ago.
1. BBC News Video and Audio
2. CNN.com Video
3. MSNBC.com
4. Google Video, Yahoo Video
5. Current TV
6. Foza TV
7. MIT World
8. YouTube, YouTube Edu
9. TeacherTube
10. Link TV, Explore, Global Pulse, Latin Pulse
11. Howcast, Big Think, WonderHowTo, ExploTV, NASA TV, ClipChef, TV Lesson, BookTVM, Edutopia videos, MonkeySee, 60Flick, the Research Channel, Videoseng

April 29, 2011
(e.g., YouTube and the Royal Channel)
Opener #6. Learner Participation in Open Information Communities (e.g., Slashdot, Digg, Wikipedia, YouTube).

June 2010
Clay Shirky, NYU: How cognitive surplus will change the world, TED
http://www.ted.com/talks/clay_shirky_how_cognitive_surplus_will_change_the_world.html

December 30, 2010
History for Music Lovers, Washington Post
The French Revolution ("Red Romance" by Lady Gaga), Trojan Way ("Tainted Love" by Soft Cell), Charlemagne ("Call Me" by Blondie).

April 6, 2011
Eric Whitacre: A virtual choir 2,000 voices strong
http://www.youtube.com/watch?v=6WHwPw3H_qg

October 2010
"Video Primers in an Online Repository for e-Teaching and Learning" V-PORTAL, TravelinEdMan (27 free/open YouTube videos)
http://www.youtube.com/user/TravelinEdMan

May 12, 2011
Across More Classes, Videos Make the Grade, Chronicle of HE
http://chronicle.com/article/Across-More-Classes-Videos-Make-the-Grade/106253/

Technology
Across More Classes, Videos Make the Grade
Susan Metros, associate vice provost at Southern Cal: Multi-media "means you have to be able to actually make" graphics and images.
Synchronous Conferencing
Presentations

June 29, 2011
Google+ Hangouts
http://www.youtube.com/watch?v=OMzSkU0Wqd8&annotation_ids=162292b0c0

July 6, 2011
Facebook introduces video calling
Eric Stoller, Inside Higher Ed
http://www.youtube.com/watch?v=OMzSkU0Wqd8&annotation_ids=162292b0c0

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

April/May 2011
Dr. Monica Rankin's class, UT Dallas, Cuban Revolution
http://www.youtube.com/watch?v=ocQMF1kPq98

December 24, 2010:
Social Networking Gaming
Cityville 16.8 million daily users, Farmville 16.4 million. Cityville 61.7 million monthly users, Farmville 55.8 million users. Mashable.
"Cityville" is New Bigger than "Farmville"
August 18, 2011
HowStuffWorks, iPhone App, USA Today, Marc Saltzman

August 18, 2011
Eco Mania and Face the Waste (iPhone/ePod), Green games gain in popularity, USA Today, Mike Snider

Opener #9. Real-Time Mobility and Portability (e.g., iPhone, low cost wireless devices)
15m people/month India
40,000/week Rwanda
60,000 earthing/hour

(Paul Kim, 2010)
We Are Going Global Mobile!

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

May 27, 2011
Math and Spelling games on iPads eSchool News
July 20, 2011
Smart phones driving lecture capture growth
eCampus News, Dennis Carter

At Pepperdine U, Timothy Lucas, an assistant professor of mathematics, shows a class how to use iPads for calculus. Linda Johnson, an assistant professor of biology at Chatham U., for her plant physiology.

April 7, 2011
Expert Tutors as Mobile Apps (e.g., Tutor.com)
Tutor.com To Go™ Becomes the First Education App that Connects Students to an Expert Tutor
Tutor.com To Go™ for iPhone, iPad & iPod Touch

Opener #10. Networks of Personalized Learning (Blogs, Podcasts, MySpace, Flickr, and RSS)
The Samsung DualView TL225

July 7, 2011
Facebook says membership has grown to 750 million, USA Today, Jon Swartz

Tablet Computers and Personalized News
April 10, 2010: Seton Hill Univ, 2,100 students an iPad and freshmen a 13-inch Macbook laptop
Feb 1, 2011: An Android Tablet Made Just for School, David Zax, Fast Company
March 9, 2011: http://www.cbs.com/ USA Today
August 19, 2011

Bing Translator (a convenient way to translate between languages in Internet Explorer 8)
http://www.microsofttranslator.com/default.aspx

Decisions for this Open Ed World...

- Technology & Administrator Decisions:
  - What do to about OER, open sources, E-books, mobile, etc.?
- Instructional Designer & Trainer decisions:
  - Act as Concierge, Counselor, Course facilitator, Credit manager?
- Formal Learner & Informal Lrmr decisions:
  - Should I attend traditional university or create your own degree path?
  - How to report use of OER on resumes?

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 Aristotilies

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!

Is this a revolution?

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

The World is Open. What happens then?

WE

ALL

LEARN!!!