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

Curtis J. Bonk, Professor, Indiana University
President, CourseShare, LLC
cjbonk@indiana.edu
http://php.indiana.edu/~cjbonk

September 15, 2010
Timeline of Technology for Teaching, NY Times

Technology of the 1980s

Mark Weiser, Scientific American, 1991,
The Computer for the 21st Century

Let’s Reflect Back 10 Years...

Virtual Tactical Operations Center (VTOC)
Shovelware

December 3, 2011, Why #Pencilchat May Be the Most Clever Education Allegory Ever, Good Education, Liz Dwyer, Education Editor

http://www.good.is/post/why-pencilchat-is-the-most-clever-education-allegory-ever/?utm_source=pulsenews&utm_medium=referral&utm_campaign=Feed%3A+good%2Flbvp+%28GOOD+Main+RSS+Feed%29

TUESDAY, MAY 17, 2011, 15 reasons to BAN pens and pencils from the classroom, Donald Clark, Plan B

http://donaldclarkplanb.blogspot.com/2011/05/7-reasons-to-ban-pens-and-pencils-from.html

May 24, 2010
Author Nicholas Carr, The Web Shatters Focus, Rewires Brains, Wired

http://www.wired.com/magazine/2010/05/ff_nicholas_carr/
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)
Open in the Philippines!  
(February 21, 2012)

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

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,
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

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.”

Charles Wedemeyer,
University of Wisconsin

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
**Framework #1: 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”

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.

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

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

**WE**
**ALL**
**LEARN!!!**

**E-Book Readers**

January 28, 2011: Amazon: Kindle Books Finally Eclipse Paperbacks, Doug Aamoth
March 2, 2011: Why Amazon would be smart to give away the Kindle, March 4, 2011, CNN Tech, Amy Gahran

Whether a surge in e-book sales can be sustained and what effect it could have on traditional bookstores remains to be seen.
Nook Tablet, November 8, 2011, USA Today

Pocket Dictionaries and Digital Textbook Projects (Korea), Husna 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.

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 2011 and growing to 44% by 2017.

Worldreader, August 22, 2011
What Makes Ed Tech Successful in the Developing World?, ReadWriteWeb, David Risher
http://www.readwriteweb.com/archives/what_makes_educational_technology_successful_in_the.php
http://www.worldreader.org/

In South Korean classrooms, digital textbook revolution meets some resistance, Washington Post, March 24, 2012,

Ahn Young-joon/AP - Teacher Yeon Eun-jung, right, helps student J oong Ho-seok study on a tablet PC during a lesson at Sosu Elementary School in Gwesan, South Korea in July. The country is now scaling back a plan to digitize classrooms by 2015.

Smart Education in Korea: South Korea’s Making the Switch to Digital Textbooks, Sang Yoon Shin, Advanced Technology Korea, October 10, 2011
http://www.advancedtechnologykorea.com/?p=8000
Blazing internet speeds in South Korea
Washington Post, March 24, 2012,
http://www.washingtonpost.com/world/2012/03/24/gIQAx3NbYS_graphic.html

<table>
<thead>
<tr>
<th>Rank</th>
<th>City</th>
<th>Speed (Mbps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>South Korea</td>
<td>16.7</td>
</tr>
<tr>
<td>2</td>
<td>Hong Kong</td>
<td>13.5</td>
</tr>
<tr>
<td>3</td>
<td>Japan</td>
<td>6.6</td>
</tr>
<tr>
<td>4</td>
<td>Sweden</td>
<td>4.0</td>
</tr>
<tr>
<td>5</td>
<td>Switzerland</td>
<td>2.5</td>
</tr>
<tr>
<td>6</td>
<td>Germany</td>
<td>1.5</td>
</tr>
<tr>
<td>7</td>
<td>USA</td>
<td>0.7</td>
</tr>
</tbody>
</table>

Note: Data collected in third quarter of 2011, broadband connections of 2Mbps or greater.

January 29, 2012
Apple’s new electronic textbook initiative just another chapter in a developing story, Herald Times, Mike Leonard

Opener #2. E-Learning and Blended Learning

Growth Online in Higher Education in the USA

More than six million post-secondary students are taking online classes in the USA; growing by 10% per year.

Pearson
Going the Distance: Online Education in the United States, 2011
Survey of Chief Academic Officers (S. A. O. S. C. A. O.) Survey and Research Group
Number of Students Enrolled in At Least One Online Course:
Online Enrollment Growth in USA

Online Enrollment as a Percent of Total Enrollment:

In Fall 2010 Online Enrollment accounted for 31.3% of the Total Enrollment.

Types of Training by Size of Institution

Types of Training for Online Faculty

Types of Training Provided for Faculty Teaching Online:

72.0% of those who have teaching online through externally not training institutes.
87.2% of courses at institutions of 100 or fewer students through not training.

Satisfaction with Online Outcomes

CAO Assessment of Learning Outcomes: Online vs. Face-to-Face

CAO Satisfaction with Online Education:

Table: CAO Perceived Student Satisfaction of Online Education:

Online—Long-Term Strategy

Which types of institutions believe Online Education is critical to the long-term strategy?

Public Institutions:

Online Education Critical to Long-Term Institution Strategy:

Since 2002, the number of CAOs who believe Online Education is critical to the long-term strategy of their institution has shown:

65.5% of CAOs in 2011 agree that online education is critical to their institution's long-term strategy.
Who is demanding fully online and blended learning?

March 11, 2011
Those Preparing for Exams and Needing Remediation, Bill Gates, Salman Khan, NBC Special
http://www.msnbc.msn.com/id/21134540/vp=42018991#42018991

Those where there are diseases and outbreaks...

Those in hurricanes!

Those in earthquakes!
Those affected by volcanos...

Those in blizzards and ice storms...

Snowmegeddon, DC winter of 2010

Groundhog Day Blizzard of 2011

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

Those in tornados...! (April 24, 2011)
Why should we be content?

Adora Svitak, age 13, World’s Youngest Teacher

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

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

July 2010
North Carolina Virtual Public Schools
(growing 79% per year)
(per Dr. Bryan Setser, Executive Director, North Carolina Virtual Public School Learn and Earn Online)

February 4, 2011
New Enrollment History Chart: Florida Virtual School (Julie Young, President & CEO)
February 20, 2012
Michigan Virtual University
http://www.mivu.org/LinkClick.aspx?fileticket=4EUrgNmtLmI%3d&tabid=373

April 12, 2011
NCTM Conference Session, Free Online Degrees; iSMART: Integration of Science, Mathematics, and Reflective Teaching (iSMART), University of Houston

Jen Chauvot and Mimi Lee, Univ of Houston

Total and Online Enrollment in Degree-Granting Postsecondary Institutions – Fall 2002 through Fall 2008

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Enrollment</th>
<th>Annual Growth Rate</th>
<th>Total Online Enrollment</th>
<th>Online Enrollment as a Percent of Total Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>16,411,290</td>
<td>1.8%</td>
<td>9,672,990</td>
<td>58.2%</td>
</tr>
<tr>
<td>2003</td>
<td>17,245,989</td>
<td>4.9%</td>
<td>10,628,294</td>
<td>61.6%</td>
</tr>
<tr>
<td>2004</td>
<td>18,124,933</td>
<td>5.1%</td>
<td>11,820,472</td>
<td>65.3%</td>
</tr>
<tr>
<td>2005</td>
<td>19,125,573</td>
<td>5.1%</td>
<td>13,093,671</td>
<td>68.6%</td>
</tr>
<tr>
<td>2006</td>
<td>20,275,643</td>
<td>5.7%</td>
<td>14,305,834</td>
<td>70.5%</td>
</tr>
<tr>
<td>2007</td>
<td>21,576,782</td>
<td>6.4%</td>
<td>15,616,313</td>
<td>72.1%</td>
</tr>
<tr>
<td>2008</td>
<td>22,985,930</td>
<td>6.5%</td>
<td>17,135,339</td>
<td>75.3%</td>
</tr>
</tbody>
</table>

Open U of Malaysia, March 25, 2010

August 11, 2011

February 16, 2012
University of Illinois at Springfield, Ray Schroeder
http://sites.google.com/site/rayschroeder/

CPI: College Tuition vs. U.S. Home Prices vs. CPI: All Items, 1978 to 2010

February 16, 2012
University of Illinois at Springfield, Ray Schroeder
https://sites.google.com/site/opencontinuinged/
May 9, 2011
Defense Acquisition University, Training Courses: Reaching the Workforce

As of 30 Sep 10

<table>
<thead>
<tr>
<th>Classroom</th>
<th>FY00</th>
<th>FY01</th>
<th>FY02</th>
<th>FY03</th>
<th>FY04</th>
<th>FY05</th>
<th>FY06</th>
<th>FY07</th>
<th>FY08</th>
<th>FY09</th>
<th>FY10</th>
</tr>
</thead>
</table>

| Web       | 13,380 | 21,031 | 36,117 | 43,649 | 58,290 | 75,079 | 77,582 | 90,600 | 118,391 | 154,399 | 192,968 |

Total 42,239 46,520 60,485 71,841 87,974 109,666 113,279 123,791 154,252 193,967 238,832

September 15, 2010
Study: Online learning might be less effective for some, eSchool News, Dennis Carter

Classroom students scored 84.5 percent on the first exam in the economics course, and online students scored 83.3 percent.

September 2010
Meta-Analysis Update: Blended and Fully Online Still Best!

Meta-Analysis Update: Blended and Fully Online Still Best!

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

Moodle (58 million users in 223 countries, 73,696 sites, 5.9 million courses)

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

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

August 2, 2011
Massive Open Online Courses (MOOC) and Graded Free OCW,
Stanford U. Offers Free Online Course in Artificial Intelligence, Jie Jenny Zou, Chronicle of Higher Education (over 135,000 sign up as of August 27)
http://www.ai-class.com/

September 15, 2011, Graded Free OCW
Welcome to Stanford Engineering, Everywhere (SEE), http://see.stanford.edu/
A computer and an Internet connection are all you need. View lecture videos, access reading lists and other course handouts, take quizzes and tests, and communicate with other SEE students, all at your convenience.

October 2, 2011

November 2, 2011, Take a Test, Get a Job, or Your Money Back, Forbes, James Marshall Crotty
January 23, 2012
University 2.0 - Sebastian Thrun (Livestream)
[http://www.youtube.com/watch?v=SkneoNrfadk](http://www.youtube.com/watch?v=SkneoNrfadk)

January 23, 2012
Udacity - Sebastian Thrun

February 15, 2012
Guess what! You just got into MIT! Free ride! Kind of!
Marketplace Tech Report, John Moe,

February 16, 2012
Ray Schroeder, U of Illinois at Springfield Guest Speaker on Open Education Movement
[http://breeze.iu.edu/p94lec5su62/](http://breeze.iu.edu/p94lec5su62/)

February 16, 2011
Khan Academy (over 2,700 videos)
February 16, 2012
Online Badges and Certifications from OER
University of Illinois at Springfield, Ray Schroeder
https://sites.google.com/site/opencontinuinged/

Badges for Online Learning
(e.g., Khan Academy, http://www.khanacademy.org/badges/view)

National Repository for Online Courses (NROC) Commons

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

The Complete Works of Charles Darwin
(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)

February 8, 2011
Online Portals and Open Educational Resources (OER)
Google Art Project, Chronicle of HE (new Google project that allows visitors to explore museums around the world and view hundreds of artworks) http://www.googleartproject.com/
February 18, 2011
Ten great sites with free teacher resources
eSchool News, Jenna Zwang,
http://www.eschoolnews.com/2011/02/18/ten-great-sources-of-free-teacher-resources/print/

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. Fora TV
7. MIT World
8. YouTube, YouTube Edu
9. TeacherTube
10. Link TV, Explore, Global Pulse, Latin Pulse
11. Howcast, Big Think, WonderHowTo, Explo.TV, NASA TV,
   ClipChef, TV Lesson, BookTV, Edutopia videos,
   MonkeySee, doFlick, the Research Channel, iVideosong

Videostreamed Conference Talks
Videos: Unleashing Technology to Personalize Learning,
Education Week, October 5, 2010
http://www.edweek.org/ew/section/video-galleries/october05-event-edtech.html

October 20, 2011
e-Learning Conference, Skype Connection, Hawaii and Indiana

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

Origins of Humans, Brian J. Ford,
Microbiologist, Cambridge, UK
http://www.youtube.com/user/tellymonitor#p/u/2/sWWnVEdl8cU
Origin of Humans: http://www.youtube.com/user/tellymonitor#p/u/1/LhGeApsKjasr
Tellymonitor's Channel: http://www.youtube.com/user/tellymonitor
BBC programs and living cells: http://www.youtube.com/watch?v=rdNpTh6Cx6Y
Secret Weapons: http://www.youtube.com/watch?v=rdNpTh6Cx6Y
Dinosaurs (Laboratory News, April 1, 2012): http://www.labnews.co.uk/news/prehistoric-revolution/
October 2010, The V-PORTAL (Bonk, IU)
“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

April 29, 2011
(e.g., YouTube and the Royal Channel)

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

Curriki, Connexions, OpenCourseWare
(e.g., MIT OCW Highlights for High School)

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 (“Bad Romance” by Lady Gaga)
Trojan Way (“Tainted Love” by Soft Cell)
Charlemagne (“Call Me” by Blondie)
http://www.youtube.com/watch?v=5JC08eg4A

April 6, 2011
Eric Whitacre: A virtual choir 2,000 voices strong
http://www.youtube.com/watch?v=8jYWWD6w3Mw

May 12, 2011
Across More Classes, Videos Make the Grade, Chronicle of HE

Susan Metros, associate vice provost at Southern Cal: Multimedia “means you have to be able to actually make” graphics and images.

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)
7 Tips for Building Collaborative Learning Spaces, Campus Technology, Matt Villano, June 2010

January 14, 2011
South African teens get virtual mentoring from all over the world, by Danielle Berger, CNN

Synchronous Conferencing Presentations

Aces of Spaces, Campus Technology, June 2011, Jennifer Demski
June 29, 2011
Google+ Hangouts
http://www.youtube.com/watch?v=KLf9jzFvkTA&annotation_id=annotation_389852&feature=iv

July 6, 2011
Facebook introduces video calling
Eric Stoller, Inside Higher Ed
http://www.insidehighered.com/blogs/student_affairs_and_technology/facebook_introduces_video_calling

February 8, 2012
Peter Smith, VP, Kaplan University
http://peterpsmith.blogspot.com/

March 20, 2012
Georgetown Learning Initiatives
Soliya Connect
http://gli.georgetown.edu/#soliya

April/May 2011
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=ocQMf1kPo98
December 24, 2010:
Social Networking Gaming
CityVille 16.8 million daily users, FarmVille 16.4 million. CityVille 61.7 million monthly users, FarmVille 56.8 million users. Mashable.

August 18, 2011
HowStuffWorks, iPhone App, USA Today, Marc Saltzman

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

Augmented Reality, May 17, 2011: USA
Today, Edward Baig, May 17, 2011, Augmented reality has potential to reshape our lives. (e.g., ZooBurst, Craig Kapp, NYU, pop-up books)

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

(Paul Kim, 2010)
We Are Going Global Mobile!
April 2010
“A” is for App, Anya Kamenetz, Fast Company

February 14, 2012
Alex Bonk in Dar es Salaam

February 14, 2012
Per Paul Kim, Director, Seeds for Empowerment: “Children in Newala, Tanzania learning English with mobile videos and writing stories. (Mobile Task Based Learning Workshop - Seeds of Empowerment). No electricity for 3 straight days, but we keep going!!”

February 19, 2012
Per Paul Kim, Director, Seeds for Empowerment: “Got a portable power generator! Working with 120 kids in a school with 600 kids.”

February 20, 2012
Per Paul Kim, Director, Seeds for Empowerment: “SMILE (Stanford Mobile Inquiry-based Learning Environment) activity to promote critical thinking, creativity, problem solving, peer evaluation, and team collaboration. Here we have one device for each 3-student team. 20 devices are needed for a class with 60 kids.

We are working with 120 kids in a 600-student school. The school will be getting a total of 61 mobile devices (25 LGs + 36 TMs), 3 notebooks, 1 projector, and 1 router.”

February 2012
Seeds for Empowerment, Tanzania
Getting Juice for Technology (generator)
**West Bank, Palestine**

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**Powering the device on bicycle**

*PocketSchool on Two Wheels*

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**Stories about love, forgiving, unity, peace**

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**Apple Founder Steve Jobs Dies, CNN**

*October 5, 2011*

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October 5, 2011
Apple co-founder Steve Jobs dies, USA Today

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.zite.com/; USA Today

March 13, 2011
iPad Apps for Calculus, Math, Biology, etc. Chronicle of HE, Ben Wieder
http://chronicle.com/article/iPads-for-College-Classrooms-/126681/?sid=at&utm_source=at&utm_medium=en

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

May 27, 2011
Math and Spelling games on iPads eSchool News
http://www.eschoolnews.com/technologies/smart-phones-driving-lecture-capture-growth/

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

July 20, 2011
Smart phones driving lecture capture growth eCampus News, Dennis Carter
http://www.ecampusnews.com/technologies/smart-phones-driving-lecture-capture-growth/
November 12, 2011
My Teacher Is an App, Stephanie Banchero and Stephanie Simon, Wall Street Journal Online
http://online.wsj.com/article/SB10001424052970203800407578216030246154149.html#printMode

Popplet
http://popplet.com/

ShowMe
http://www.showme.com/

March 27, 2012
Where are all the ultrabooks?, David Goldman, CNN Money Tech

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

December 16, 2010
Introducing Word Lens
http://www.youtube.com/watch?v=hZQYHYHRs
August 19, 2011
Bing Translator (a convenient way to translate between languages in Internet Explorer 8)
http://www.microsofttranslator.com/default.aspx

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

April 7, 2011
Expert Tutors as Mobile Apps (e.g., Tutor.com)

Online Language Learning
(e.g., EnglishCentral, iTalki, Palabea, Babbel)

February 9, 2012
A first-hand look inside a flipped classroom,
eSchool News, Meris Stansbury
http://www.eschoolnews.com/2012/02/09/a-first-hand-look-inside-a-flipped-classroom/

February 12, 2012: Mooresville's Shining Example (It's Not Just About the Laptops), ALAN SCHWARZ, NY Times

http://www.pbs.org/newshour/bb/education/jan-june11/technology_04-08.html
**February 21, 2012**
Rethinking Learning with Salman Khan, Stanford Graduate School of Business

Khan Academy Founder Finds Simplicity Appeals in Online Education Experimentation

Let’s use video to reinvent education, TED, March 2011
http://www.ted.com/talks/salman_khan_let_s_use_video_to_reinvent_education.html

**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 Aristotles

**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 Lrnr 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!

**Is this a revolution?**
1. 0 if I am lucky.
2. Just 1.
3. 2, yes, 2…just 2!
4. Do I hear 3? 3!!!!
5. 4-5.
6. 5-10.

**How many ideas did you get from this talk?**
1. 0 if I am lucky.
2. Just 1.
3. 2, yes, 2…just 2!
4. Do I hear 3? 3!!!!
5. 4-5.
6. 5-10.
Stop and Share: Top Three Things Learned!

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

The World is Open. What happens then?

WE ALL LEARN!!!

Stand and Share Ideas

• Will Work: ______________
• Might Work: ______________
• No Way: ______________