The World is Open: Now, WE ALL LEARN With Web Technology

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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; Mosiac, 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: Digital, Mobile, Personal, and Virtual (wireless, file sharing, VoIP, video camera in phone)

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15 Gadgets that Changed Everything This Decade

December 9, 2009, Jay Yarow, Silicon Alley Insider

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21 Things That Became Obsolete This Decade

December 11, 2009, Silicon Alley Insider

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

David Thomas, Archeologist, La Trobe University, Australia (Discovery News)

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)

Follow Online Adventure
Australian adventurer Don McIntyre and teenage circumnavigator Mike Perham to re-enact Capt William Bligh's epic mutiny on the Bounty open boat voyage, September 9, 2009

Charles Wedemeyer
Learning at the Back Door (1981)
Nontraditional Learning

WE-ALL-LEARN:
Ten Forces that Opened the Learning World

- **W**eb Searching in the World of e-Books (i.e., Darwin)
- **E**-Learning and Blended Learning
- **A**vailability of Open Source and Free Software (e.g., Moodle)
- **L**everaged Resources and OpenCourseWare (e.g., MIT)
- **L**earning Object Repositories and Portals (i.e., shared content)
- **L**earner Participation in Open Info Communities (YouTube)
- **E**lectronic Collaboration and Interaction (sync and async)
- **A**lternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- **R**eal-Time Mobility and Portability (e.g., iPhone)
- **N**etworks 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.

The Learning World is Open

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

The Learning World is Open

DOWNLOAD THE FREE eBOOK

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

WE

ALL

LEARN!!!

Free Online Books

(Terry Anderson and Fathi Elloumi. eds. *Theory and Practice of Online Learning;* Canada: Athabasca University. 2004), http://cde.athabascau.ca/online_book/, 55,000 downloads in first year)

Theory and Practice of Online Learning

eSCHOOL NEWS

California considers open digital textbooks

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

This Could Be the Year of e-Textbooks
Many titles are available, but students are wary

Latest craze: free e-books

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

e-Book Readers
(e.g., Barnes & Noble unveils its e-reader, the Nook, USA Today, October 21, 2009)

Blio: Kurzweil Reinvents the Book
Charlie Sorrel, Dec 29, 2009, Wired
http://www.wired.com/gadgetlab/2009/12/blio-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?

Opener #2. E-Learning and Blended Learning

Trend #2. E-Learning and Blended Learning.
What happens then?

WE

ALL

LEARN!!!

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

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.coe.uh.edu/mycoe/CUIN/math/iSMART%20flyer4.pdf
http://www.coe.uh.edu/mycoe/CUIN/math/ismart.cfm

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

Total and Online Enrollment in Postsecondary Institutions
Fall 2002 through Fall 2006

	Total Enrollment	Annual Growth Rate Total Enrollment	Students Taking at Least One Online Course	Annual Growth Rate Online Enrollment	Online Enrollment as Percent of Total Enrollment
Fall 2002	16,611,710	NA	1,602,970	NA	9.7%
Fall 2003	16,900,479	1.7%	1,971,397	23.0%	11.7%
Fall 2004	17,272,043	2.2%	2,329,783	18.2%	13.8%
Fall 2005	17,428,500	0.9%	3,180,050	36.5%	18.2%
Fall 2006	17,647,720	1.3%	3,488,381	9.7%	19.8%

SOURCE: Online Nation: Five Years of Growth in Online Learning (October 2007)

UIS Online & Blended Enrollment

Open Teaching
(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)

Question: What is Top E-Learning Project in Indiana?
Answer: A Grain of Rice: A Bloomington man's computer vocab game feeding the world

A GRAIN OF RICE

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

The Learning World is Open

INFORMATION TECHNOLOGY

Bb

Blackborg

Trend #3. Availability of Open Source and Free Software.
What happens then?
WE ALL LEARN!!!

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, IITs of India)

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!)

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

Israeli Entrepreneur Plans a Free Global University That Will Be Online Only

Israeli starts 1st tuition-free online university

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

The Learning World is Open

Lecture Portals (Academic Earth, TED, etc.
http://academicearth.org/)

Thousands of video lectures from the world's top scholars.

Link TV and Fora TV

Tracking Live Internet Thawing: A Colossal of an Idea
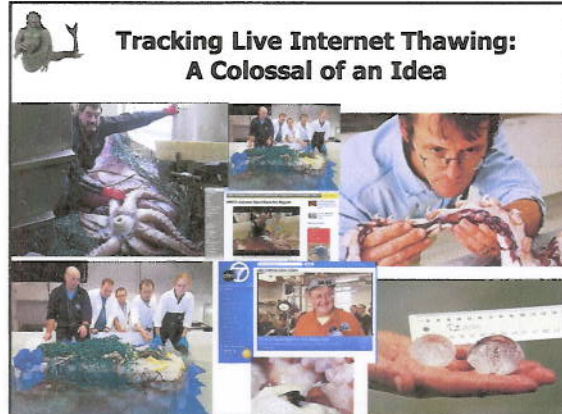
Ida (a transitional species)
47-Million-Year-Old Darwinius Masillae Fossil the Missing Link? (wowOwow, May 20, 2009)

The Complete Works of Charles Darwin
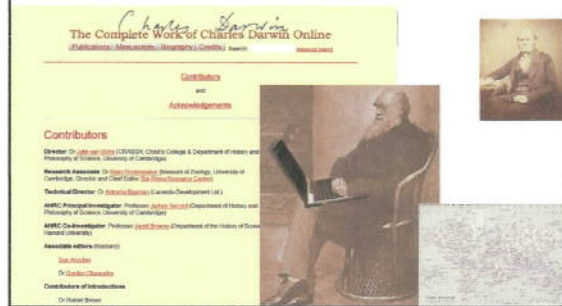
The Carlyle Letters Exploring Victorian World Through Letters and The Diary of Samuel Pepys
(Great Plague, Great Fire, Charles Dickens, Erasmus Darwin, Mary Wollstonecraft Shelley, Robert Browning, John Stuart Mill, Ralph Waldo Emerson, Elizabeth Barrett Browning, and Alfred Tennyson)

The Royal Society 350th anniversary celebrations puts historic papers online (Captain Cook, Sir Isaac Newton and Benjamin Franklin), BBC, Nov 30, 2009
http://news.bbc.co.uk/2/hi/science/nature/8381425.stm

Human Brain Dissected Today in a Live Webcast, Chronicle of Higher Education,
December 02, 2009, 01:00 PM ET
http://chronicle.com/blogPost/Human-Brain-Dissected-Today-in/9053/?sid=pm&utm_source=pm&utm_medium=en

Referatory: MERLOT.org
(78,472 members, 21,690 learning materials, January 3, 2010)

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, IP, BRIT, UNESCO, UN, Sigma Xi, ...
from authors *worldwide*

Usage (December 2009)
1.6m unique users
4 million page views
72 million hits
More than 1m unique users from nearly 200 countries

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

The Learning World is Open

flatworld KNOWLEDGE

Wikis: Wikipedia and Wikibooks

WIKIPEDIA

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)
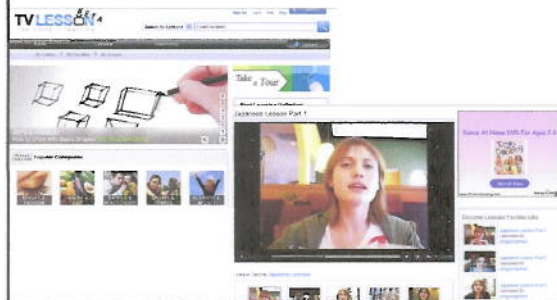

Individual Produced Videos
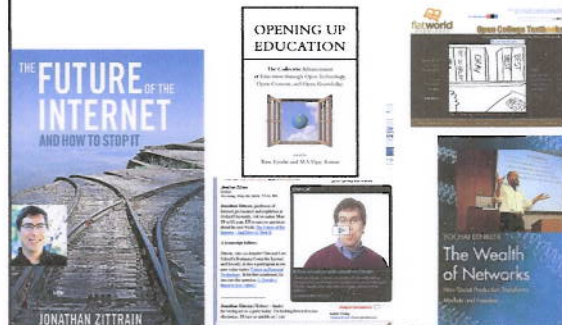**(e.g., African School Dream in Current TV)**
http://current.com/items/77146082_african_school_dream

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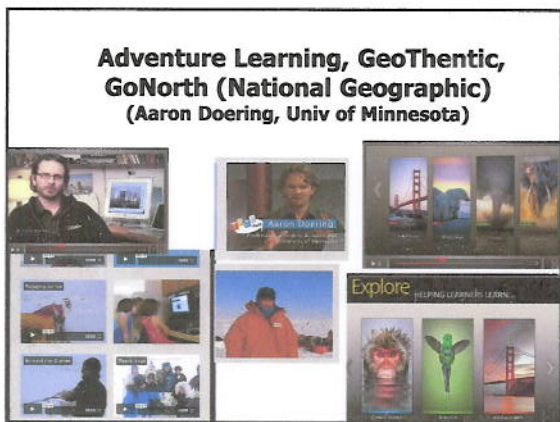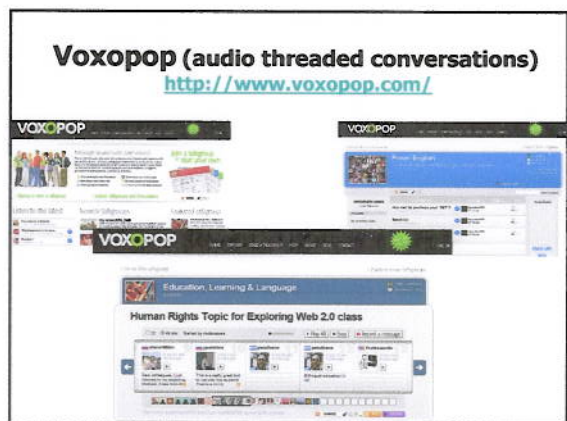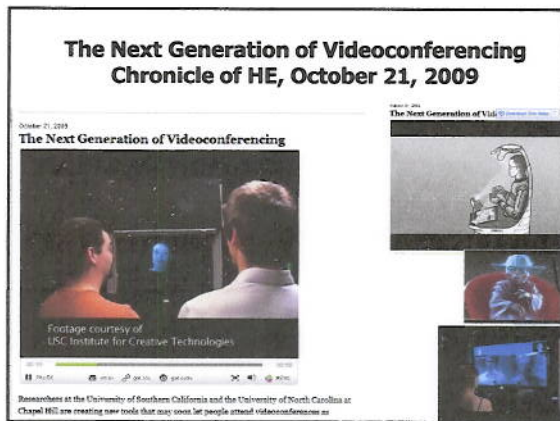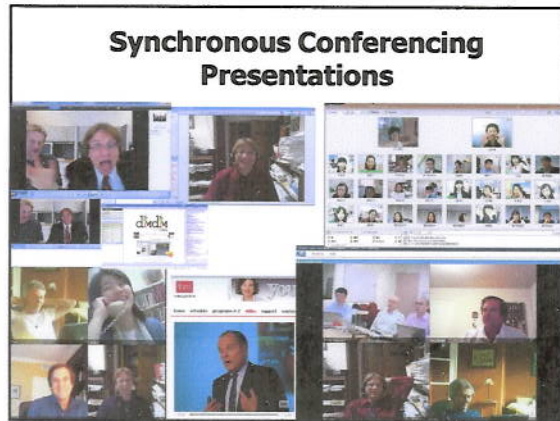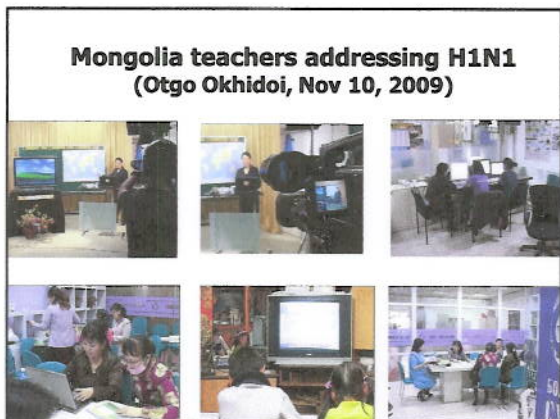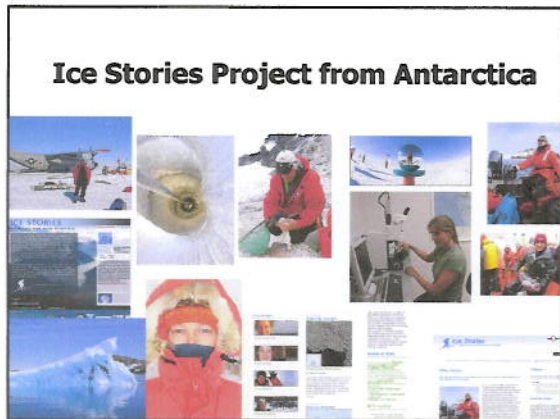

Participatory E-Books

Scribd: Documents on Web
http://www.scribd.com/; 21 million unique visitors per month, May 2008

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

Synchronous Conferencing Presentations

Iran after the June Election
http://www.cnn.com/video/#/video/world/2009/06/17/amanpour.uk.covering.iran.cnn

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

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

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

Global SchoolNet
http://www.globalschoolnet.org/index.cfm?section=Programs

11

Ice Stories Project from Antarctica

1kg More Project for Rural China
(http://www.1kg.org/

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)

The Learning World is Open

CIVILIZATION

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

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

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

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

The Learning World is Open

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 15.4M
Globally: 60,000 new mobile subscriptions every hour!!!

(per Paul Kim, Stanford, 2009); Nokia Research Lab
http://news.yahoo.com/s/afp/20090308/bs_afp/indiaeconomytelecom

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 in India with Paul Kim
http://www.stanford.edu/~phkim/curt/India.pdf

Mobile Learning
(April 21, 2009, USA Today)

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

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

The Learning World is Open

September 30, 2009
the Samsung DualView TL225

Teaching With Twitter, Chronicle of HE, Jeffrey Young
November 22, 2009,
Sugato Chakravarty, a professor of consumer sciences and retailing at Purdue University, has welcomed Twitter into the lecture hall, even though the service lets students engage in back-channel discussions. The questions submitted via Hotseat for the professor and guest speakers are projected for all the students to see.

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

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 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

The Future
NEXT EXIT

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

WE ALL LEARN!!!

E-books: 4 choices (Paperback, Kindle, iPhone, or iPod listening)
Chronicle of HE, June 12, 2009

Reading Dickens Four Ways