Learning World Is Open: Now WE-ALL-LEARN with Web Technology

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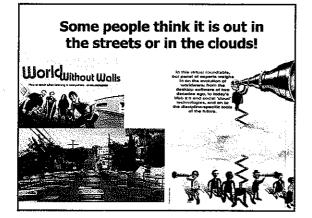cjbonk@indiana.edu
http://php.indiana.edu/~cjbonk

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)

Some people think it is out in the streets or in the clouds!

World Without Walls

In this virtual roundtable, our panel of experts weighs in on the evolution of worldware, from the desktop software of two decades ago, to today's Web 2.0 and social "cloud" technologies, and on to the discipline-specific tools of the future.
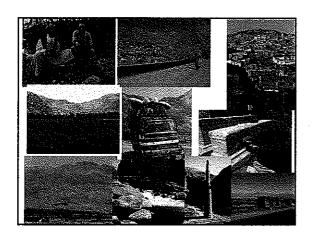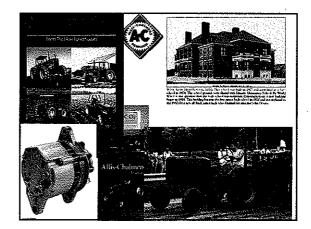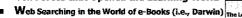
WE-ALL-LEARN:
Ten Forces that Opened the Learning World
- **W**eb Searching in the World of e-Books (i.e., Darwin)
- **E**-Learning and Blended Learning
- **A**vailability of Open Source and Free Software (e.g., Moodle)
- **L**everaged Resources and OpenCourseWare (e.g., MIT)
- **L**earning Object Repositories 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)

The Learning
World is Open

THE WORLD IS FLAT
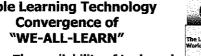
Audience Participation!
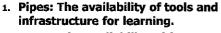
1. WE

2. ALL

3. LEARN!!!

Triple Learning Technology Convergence of "WE-ALL-LEARN"

The Learning
World is Open

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.

4th P? Processing Speed
Scientists develop fastest computer
June 9, 2008, H. JOSEF HEBERT, AP
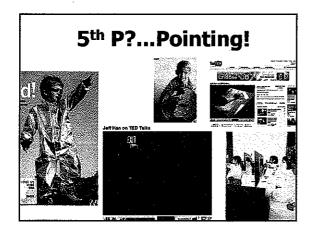
- To put the computer's speed in perspective, it has roughly the computing power of 100,000 of today's most powerful laptops stacked 1.5 miles high, according to IBM. Or, if each of the world's 6 billion people worked on hand-held computers for 24 hours a day, it would take them 46 years to do what the Roadrunner computer can do in a single day.

5th P?...Pointing!

Jeff Han on TED Talks

6th P?...Pockets! What if every early elementary kid could have a terabyte (1,000 gigabytes or 1 trillion bytes) of data on a thumb drive? (Wired Magazine, October 26, 2007 says it will be possible in a few years; research from Arizona State)

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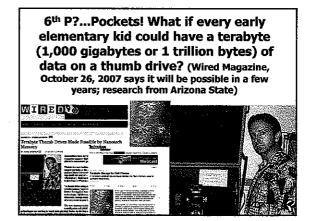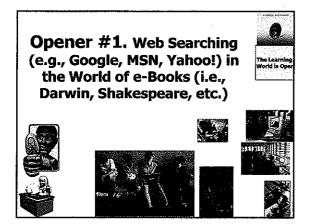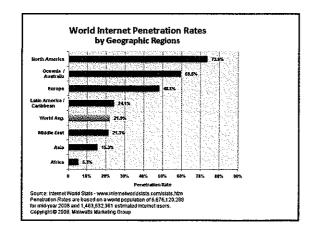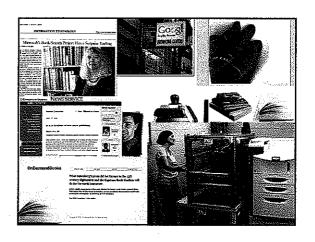
Trend #1. Web Searching in the World of e-Books. What happens then?

<u>WE</u>

ALL

LEARN!!!

World Internet Penetration Rates by Geographic Regions

Region	Penetration Rate
North America	73.6%
Oceania / Australia	59.5%
Europe	48.1%
Latin America / Caribbean	24.1%
World Avg.	21.9%
Middle East	21.3%
Asia	15.3%
Africa	5.3%

Source: Internet World Stats - www.internetworldststs.com/stats.htm
Penetration Rates are based on a world population of 6,676,120,288
for mid-year 2008 and 1,463,632,361 estimated Internet users.
Copyright © 2008, Miniwatts Marketing Group

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

Global Text Project (free textbooks for those in less developed countries) http://globaltext.org/

Opener #2. E-Learning and Blended Learning

The Learning World is Open

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

WE

ALL

LEARN!!!

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

**Growth of Online Learning in Secondary Schools
(Florida Virtual School; AP American History)**

GlobalSchoolNet.org

Florida VirtualSchool

Indiana University High School
4,000 students and 1,400 enrolled in diploma programs (interest from China, India, and Nigeria as well as military and adults who never completed a high school degree)
(per Bruce Colston, Director of IUHS, Oct 2008)

"Dancing Fingers"
By: Adora & Adrianna Svitak

Total and Online Enrollment in Postsecondary Institutions
Fall 2002 through Fall 2006
(For Degree-Granting Institutions)

	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	16,900,470	1.7%	1,971,397	23.0%	11.7%
Fall 2004	17,272,043	2.2%	2,329,783	18.2%	13.5%
Fall 2005	17,428,500	0.9%	3,180,050	36.5%	18.2%
Fall 2006	17,647,720	1.5%	3,488,381	9.7%	19.6%

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

Sara Cordell, professor of English at the University of Illinois-Springfield, says she feels online students become better writers because they get so much practice. NPR Special, Nov 29, 2007, Larry Abramson.
(67% of US Colleges and universities offer online courses; 35% offer fully online programs.)

Univ of Illinois at Springfield

UIS Online & Blended Enrollment

University of Illinois at Springfield, 2008. A special thanks to Ray Schroeder and Burks Oakley!!!!

Free and Open Courses
(Connectivism from George Siemens and Stephen Downes, 18 enrolled, 2,000+ sitting in)

A Grain of Rice: A Bloomington man's computer vocab game feeding the world
Herald Times, Wednesday
February 6, 2008
Mike Leonard

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

The Learning World is Open

Trend #3. Availability of Open Source and Free Software. What happens then?

WE

A_LL

LEARN!!!

Moodle (400,000 registered users in 193 countries speaking 73 languages)

Community Growth

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

The Learning World is Open

OPENING UP EDUCATION

Trend #4. Leveraged Resources and OpenCourseWare. What happens then?

WE

A_LL

LEARN!!!

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

Sample OpenCourseWare Projects

Indian Institutes of Technology (IIT)

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

OOPS! Opensource Opencourseware Prototype System
The Foundation of Fantasy Culture and Arts

National Repository for Online Courses (NROC) Commons

Post Courses in YouTube and iTunes (e.g., Berkeley)

Peer 2 Peer University

Unusual New Online University Will Rely on Volunteer Teachers, October 20, 2008

http://chronicle.com/wiredcampus/article/3402/unusual-new-online-university-will-rely-on-volunteer-teachers?utm_source=at&utm_medium=en

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

From left, three views of a fragment of one of the Dead Sea Scrolls: a plain digital image, a color scan and an infrared scan.
August 27, 2008, Israel to Display the Dead Sea Scrolls on the Internet, By ETHAN BRONNER, The New York Times

The Complete Works of Charles Darwin

Reflection on Online Contents: The Carlyle Letters Exploring Victorian World Through Letters and The Diary of Samuel Pepys, John Evelyn (Great Plague, Great Fire; Charles Dickens, Erasmus Darwin (grandfather of Charles Darwin), Mary Wollstonecraft Shelley, Robert Browning, John Stuart Mill, Ralph Waldo Emerson, Elizabeth Barrett Browning, and Alfred Tennyson)

What if the World was Beyond our World?
NASA's Hubble Space: Google Sky) USA Today, August 22, 2007
http://earth.google.com/sky/index.html

Tracking Live Internet Thawing:
A Colossal of an Idea

Referatory: MERLOT.org
(62,000 members, 20,000 learning materials)

Connections Growth, January 2009

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

The Learning World is Open

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Conference to Conference (You Ustreamed my Ustream: Now that's a Twitter of an Idea)

Skype, Google Talk, Chinesepod, LiveMocha, VoiceThread, YackPack, Dotsub, Chinswing, and many other Collaborative Language Learning

Wikis: Wikipedia and Wikibooks

Global Nomads Group
http://www.gng.org/home.html

http://www.usatoday.com/tech/products/2008-10-23-youtube-tv-episodes_N.htm

Brand New E-Book and Print book
Opening Up Education
New Edited Book from MIT (free PDF, sample chapters, and hardcopy)

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

World's Largest Online Book Club
LibraryThing (you can be a "*thingamabrarian*"
400,000 users and 26 million books)

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

The Learning World is Open

NEW SKILLS FOR A NEW AGE
What students must master to succeed.

eduTopia
The Collaboration Age
Teachers Jump into The Life Generation

LEARN

CREATE

COLLABORATE

Your Presenter...

Curt Bonk
Indiana University

Wrap Up

EPals has for-profit and nonprofit arms.
Candace Pauchnick, standing, uses its tools in her class.
By STEVE LOHR
Published: February 24, 2008
New York Times

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

The Learning World is Open

Virtual Case Worlds

MyCaseSpace

An interactive Case-based Learning Management System

Bring your cases to life with MyCaseSpace!

Assess student critical thinking and decision making skills in real time!

This site is under development.

Massive Multiplayer Online Gaming (MMOG)

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

The Learning World is Open

Mobile Learning

Terabyte thumb Drives and Magic Pens!
(The Pulse from Livescribe)
Second, we need new ways to record info:
Smartpens: "Never Miss a Word"

Medical Moves Mobile

Wireless in Africa and Pocket School in Latin America (Paul Kim, 2008)

Jerry Kronenberg Monday, August 4, 2008
Boston Herald
Designers on quest to build $12 computer

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

TutorVista has 600 tutors in India and 10,000 subscribers in the United States, including Kenneth Tham in Arcadia, Calif.

Learning Towns are Popping up!

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

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

WE ALL LEARN!!!