Technology trends opening access to education worldwide:
Now, we all can learn!

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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 organs collaborate communities; Mozilla, Apache, Wikipedia, Linux, Mozilla)
5. Outsourcing (T2K)
6. Offshoring (e.g., China, Mexico, Thailand)
7. Supply-Chaining (e.g., Walmart)
8. In-sourcing (UPS fixing Toshiba laptops)
9. En-forming (e.g., Google, Yahoo!, MSN Web Search)
10. The Steroids: Digital, Mobile, Personal, and Virtual (wireless, file sharing, VoIP, video camera in phone)
Conference to Conference
(You Ustreamed my Ustream: Now that's a Twitter of an Idea)

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 (e.g., 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"
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!
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!!!

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

Opener #2. E-Learning and Blended Learning

Read, Listen, etc. to online books (e.g., "An International Episode" by Henry James)
Trend #2. E-Learning and Blended Learning. What happens then?

WE

ALL

LEARN!!!

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

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)

The Voyages of EVA roam

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

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 25, 2007, Larry Romansen.

(67% of US Colleges and universities offer online courses; 35% offer fully online programs.)
Free and Open Courses
(Connectivism from George Siemens and Stephen Downes, 24 enrolled, 2,000+ sitting in)

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

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

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

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

A Grain of Rice: A Bloomington man's computer vocab game feeding the world
Herald Times, Wednesday
February 6, 2008
Mike Leonard
Trend #4. Leveraged Resources and OpenCourseWare. What happens then? WE ALL LEARN!!!
National Repository for Online Courses (NROC) Commons

Peer 2 Peer University
Unusual New Online University Will Rely on Volunteer Teachers, October 29, 2008

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

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

Deep-Sea Behemoth
Captain John Bonnett examines the world's first intact adult male colossal squid on board his New Zealand fishing boat in February, 2007, in the Ross Sea near Antarctica. The gigantic sea creature weighs a world record 1,889 pounds. After being frozen whole for over a year, scientists at New Zealand's national museum will thaw the squid for further study.
Referatory: MERLOT.org
(62,000 members, 20,000 learning materials)

Repository: Connexions (6,000+ modules, Rice Univ) & Curriki (K-12, Sun Micro)

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

Wikis: Wikipedia and Wikibooks

Individual Produced Videos (e.g., African School Dream in CurrentTV)
http://current.com/items/77146982_african_school_dream
Posting Documents on Web

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)

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

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

Adult pen pals for books read
Opener #8. Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)

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

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

Wireless in Africa and Pocket School in Latin America (Paul Kim, 2008)
http://www.neaveres.com/mobile-learning-in-developing-countries

OLPC in Nigeria: School Galadima
One Laptop Per Child foundation (OLPC) provided School Galadima in March 2007 with an XO laptop for each child in Primary 4, 5 and 6 and also for each member of the staff.
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 "Note-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, Teachery
11. The Rise of the Super Blends
12. Self-Determined Humans
13. Free Learning Zones
14. Authentic Learning Anamalgamations
15. Alexandrian Aristotles

The World is Open. What happens then?
Now WE-ALL-LEARN with Web Technology

WE ALL LEARN!!!