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

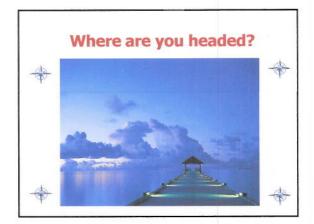
Curtis J. Bonk, Professor, Indiana University President, SurveyShare cjbonk@indiana.edu http://php.indiana.edu/~cjbonk











## Do you know the shape of the world?



# Is the World Flat?



# The Ten Forces that Flattened the World

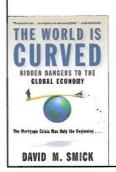
Triple Convergence: (1) new economic players, (2) playing fields, and (3) processes.

- 1. 11/9/89: Berlin Wall came down

- 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)
- Offshoring (e.g., China, Mexico, Thailand)
- 7. Supply-Chaining (e.g., Walmart)
- 8. Insourcing (UPS fixing Toshiba laptops)
- In-forming (e.g., Google, Yahoo!, MSN Web Search)
- The Steroids: Digital, Mobile, Personal, and Virtual (wireless, file sharing, VoIP, video camera in phone)

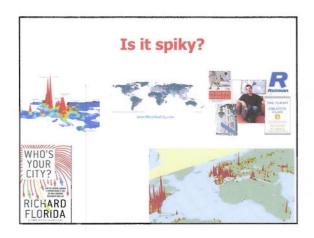


## Is the World Curved?



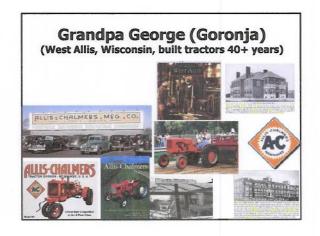


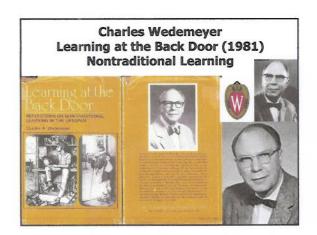




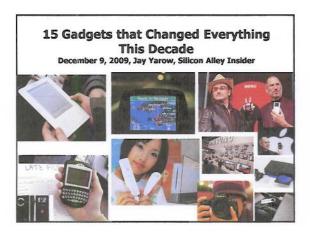






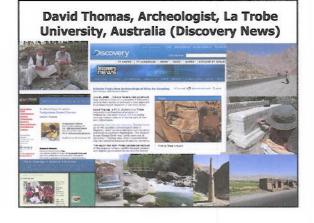
















#### WE-ALL-LEARN:





- 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
- 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!**







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?









This Could Be the Year of e-Textbooks

Many titles are available, but students are wary. Jeffrey Young, September 7, 2009



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

#### Blio: Kurzweil Reinvents the Book Charlie Sorrel, Dec 29, 2009, Wired

http://www.wired.com/gadgetlab/2009/12/bliokurzweil-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?



#### Tablet May Help E-Textbook Market, Publishers Hope Chronicle of HE, Jeffrey Young January 31, 2010





Guests play with Apple's new iPad at an event announcing its debut in San Francisco. At least one college is considering giving iPads to new students, but the jury on whether the device will revolutionize learning will be out for a while.

