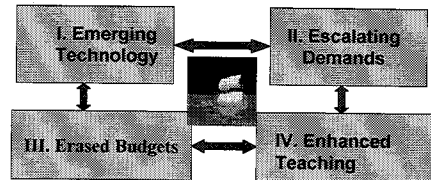


The Perfect E-Storm: Emerging Technology, Enhanced Pedagogy, Enormous Learner Demands, and Stagnant Budgets



Dr. Curtis J. Bonk
 Professor, Indiana University
 President, SurveyShare, Inc.
<http://php.indiana.edu/~cjbbonk>
cjbbonk@indiana.edu

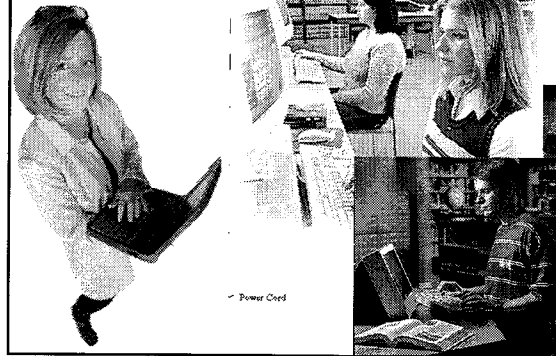
Four Storms are Approaching



Some are scared of the storm!!!



I'm a librarian

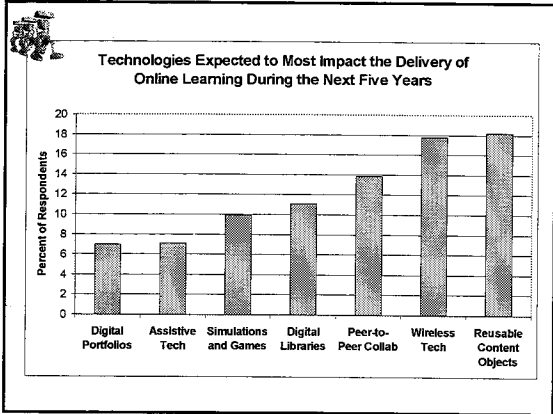


Ok, Million Dollar Question: Which technology will impact schools the most?



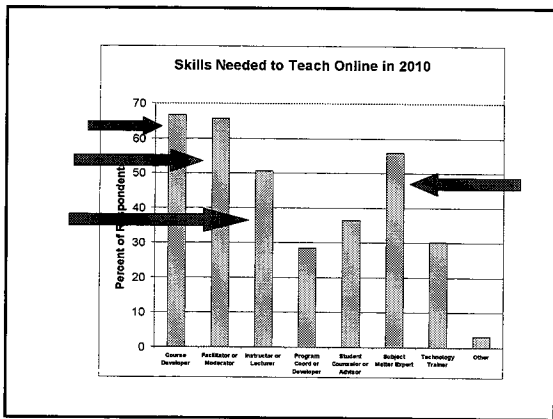
Storm 1. Emerging Learning Technologies

1. Assistive Technologies & Talking Computers
2. Blogs and Online Diaries
3. Digital Portfolios
4. Electronic Books
5. Online Communities and Learning Portals
6. Intelligent Agents
7. Online Exams and Homework
8. Online Games and Simulations (Massive Multiplayer Gaming)
9. Online Translation Tools & Language Lrng
10. Course Management Systems
11. Peer-to-Peer Collaboration
12. Reusable Content Objects
13. Videostreaming, IP Videoconferencing
14. Virtual Worlds/Reality
15. Wearable Computing
16. Wireless Tech: Tablet PCs, Handheld Devices



Myth #1.

I must have a technology background to use effectively.



Trend #1. Course Management Systems

Trend #2: Wireless Technology

Handheld Computing

MOST (UN)WIRED SCHOOLS?

ENET and U.S. News and World Report put the top 50 universities' tech specs and asked their white computers they recommend to students and faculty.

Upgrading the local-area enterprise

Trend #3: Mobile Technology

Next hot trend for cell phones: Reading?

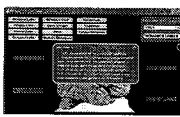

Mobile technology meets the novel in Japan

A woman reads a mobile phone screen while her change in government takes place.



The gadget is an all-in-one handheld device that allows users to view full-motion video, listen to music, record voice messages in real time, take images and play games.

Trend #4: Reusable Content Objects


- "Learning Objects are small or large resources that can be used to provide a learning experience. These assets can be lessons, video clips, images, or even people. The Learning Objects can represent tiny "chunks" of knowledge, or they can be whole courses."
Claude Ostyn, Click2Learn

Trend #5. Wikipedia (Jimmy Wales, Founder)

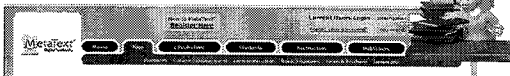



WIKIPEDIA



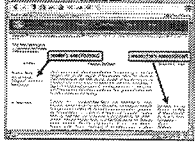
English: The Free Encyclopedia 200,000+ articles
 Deutsch: Die freie Enzyklopädie 100,000+ Artikel
 Français: L'encyclopédie libre 100,000+ articles
 Svenska: Den fria encyklopedin 100,000+ artiklar
 Polski: Wolna Encyklopedia 100,000+ artykułów
 Portuguese: A enciclopédia livre 100,000+ artigos
 Japanese: フリー百科事典 100,000+ 記事
 Nederlands: De vrije encyclopedie 100,000+ artikelen
 Italiano: L'enciclopedia libera 100,000+ articoli
 Español: La enciclopedia libre 100,000+ artículos

Trend #6. Electronic Books



Mendeley Free - Book Features

- To customize this text, visit our help page.
- Notes allow you to record important notes and references to the text.
- Content is automatically checked by our software to ensure it is not copyrighted or otherwise illegal to use.
- Authors can create and edit content and see real-time feedback.
- Automatic save and backup to the cloud through our secure servers.



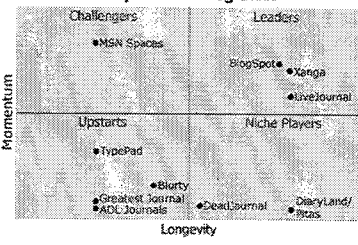
Trend #7: Blogging

Quarter: Blog Population

Q1 2000	29,500
Q2 2000	66,100
Q3 2000	115,000

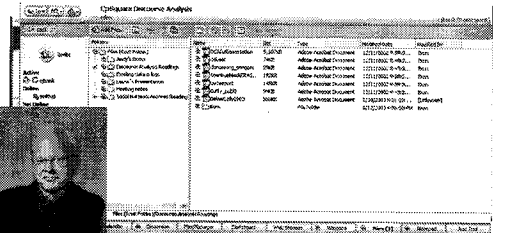

Hosted Blog Growth

Key Hosted Blog Sites



Site	Growth Rate
Challengers (MSN Spaces)	606%
Leaders (BlogSpot, Xanga)	126%
Niche Players (LiveJournal)	131%
Upstarts (TypePad)	105%
Longevity (Blurty, Greatest Journal, AOL Journals, DeadJournal, DiaryLand, Blogos)	-

Trend #8. Collaborative Tools

Ray Ozzie
Founder, Groove Networks

Trend #9: Virtual Worlds/Virtual Reality/MMOG




Virtual gaming

Online games are one of the many ways the Web has changed the way young people socialize and entertain themselves.

Percentage of visitors and users to game Web sites by age, September 2004

12-17	10.5%
18-24	13.2%
25-34	17.9%
35-44	20.3%
45-54	19%
55-64	6.4%
65+	3.9%

SOURCE: ComScore Media Metrix

Trend #10: Synchronous Conferencing

The screenshot shows a web-based interface for synchronous conferencing. It features a central video window, a chat area on the left, and a document viewer on the right. The interface is designed for real-time collaboration and discussion.

#11. Computer Grading

(New York Times, May 19, 2004, Latent Semantic Analysis, Thomas K. Landauer, UC Boulder)

Indiana Essays Being Graded by Computers

By SOL HERSHWEITZ
Published May 19, 2004

INDIANAPOLIS - In the computer lab at Warren Central High School in west May, Craig Butler, a junior, squinted at the questions on his screen, pained to ponder his answer and began typing.

Original cost of 48,500 laptops gathered in high schools across the state to take the end-of-year written English essay test. Unlike most essay tests, however, this one is being graded not by a teacher but by a computer.

#12. Free Online Resources: Public Library of Science

The screenshot displays the PLOS website, which offers free online resources. It includes sections for 'PLOS ONE', 'PLOS PLUS', and 'PLOS ONE PLUS'. The site is dedicated to providing open access to peer-reviewed research articles.

Stanford Encyclopedia of Philosophy

The Stanford Encyclopedia of Philosophy is a free online resource that provides comprehensive information on a wide range of philosophical topics. It is maintained by the Metaphysics Research Group at Stanford University.

Museum of Online Museums

The screenshot shows the website for the Laguna Art Museum. It features a navigation menu, a search bar, and a main content area with various art-related information and exhibits.

Digital Libraries (LibraryShare)

The screenshot displays the LibraryShare website, which provides digital library services. It includes a search bar, a list of digital resources, and a section for exploring digital content.

Tufts OpenCourseWare Project

Tufts OpenCourseWare

SEARCH: IDP200 Pathophysiology of Infectious Diseases, Fall 2004/2005

Course Faculty:
Susan Hadley
Michael Gurov
Shamshad Ghorban
Linda He
Laura Kogutman
Deena O'Rourke
John Ross
David Sordani
Chelise Thorne
Miguel
Cristina Lopez
17 Hours
Lived
2nd Year

