

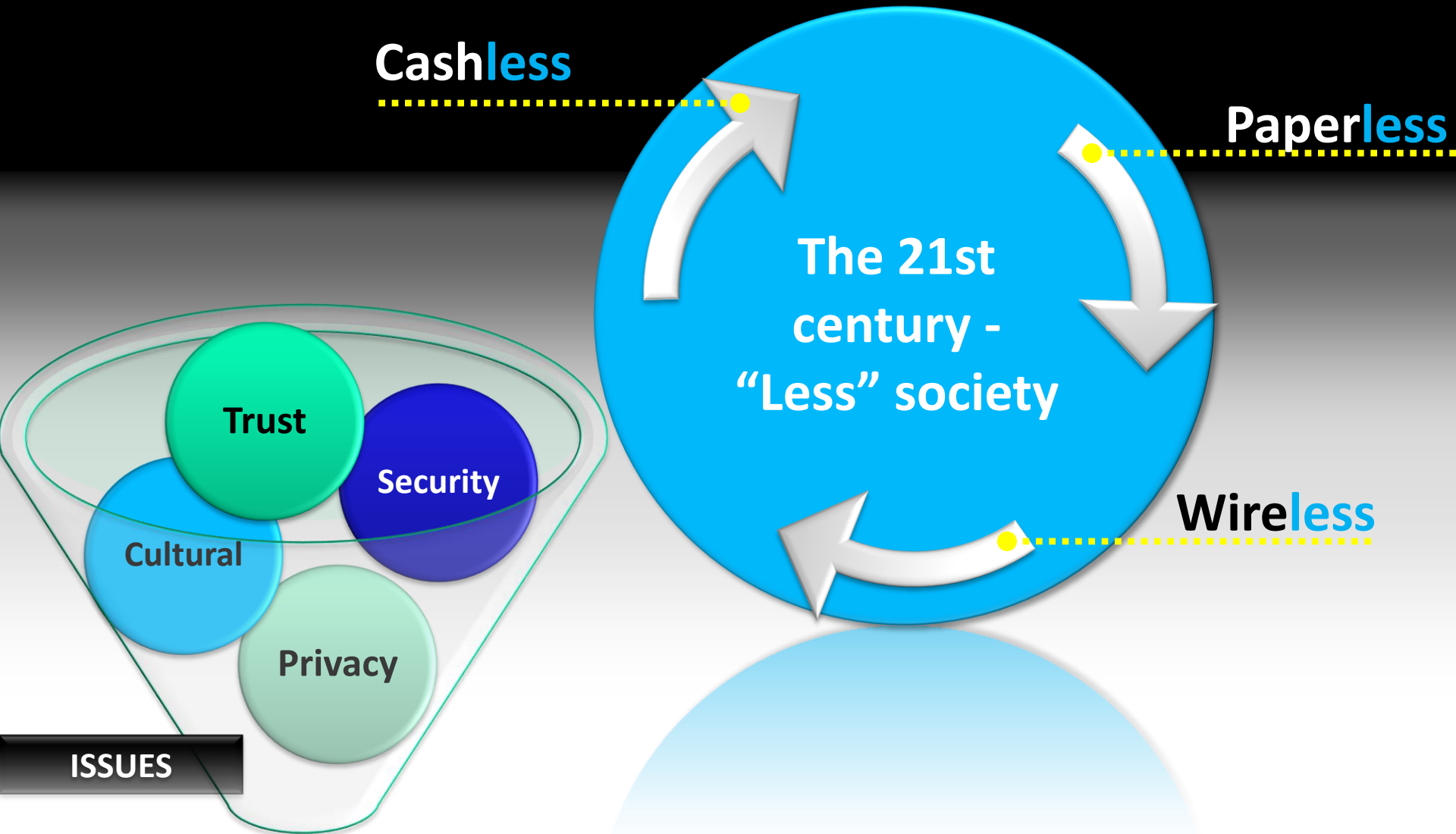
The Evolution of Training Solutions in the Classroom: From MBT to TGIF and Smart Technology



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Georgia State University
and
College of Business
Mississippi State University



The 21st Century - “Less” Society



Swiss Army Knives

Swiss Army Knife definition:

-noun

1. *a method or system that deals with situations of all types*



Our handheld mobile device has become the
“Swiss Army Knives” of our lives.

Mobile Wireless Services



1980s 1990s 2000s



Virtual E-Learning Environment

E-Learning


E-learning comprises all forms of electronically supported learning and teaching

Increased emphasis on social learning and use of social software such as blogs, wikis, podcasts & virtual worlds

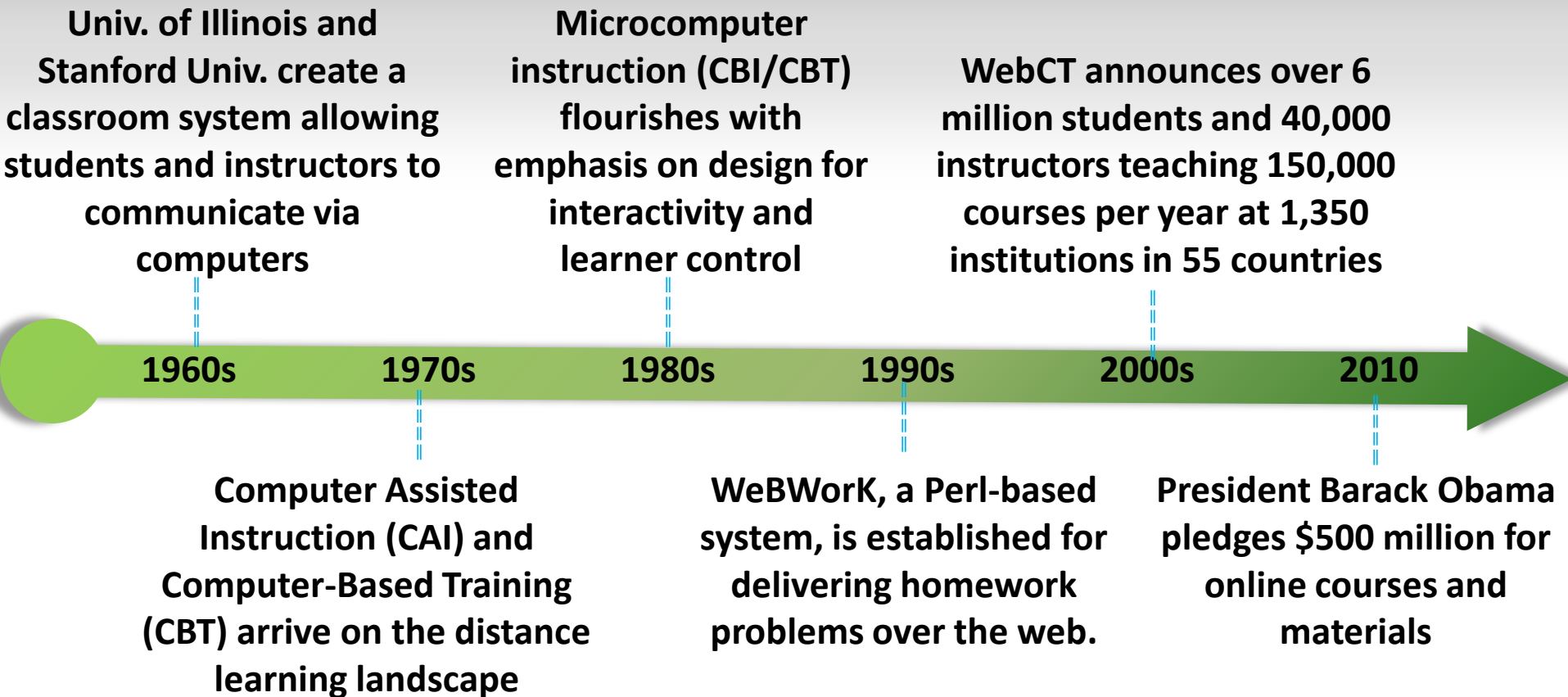
Content retention is increased by engaging multiple senses (auditory, visual, and kinesthetic) during the learning process

Educators benefit from using a variety of tools and resources in courses, seminars, and training, such as e-learning tools, Web 2.0, web conferencing

Evolution of E-Learning

Multimedia-based Training (MBT)	Web-Based Training (WBT)	Distance Learning	TGIF & Smart Technology
 <p>Self-paced interactive training presented on a CD-ROM using a variety of multimedia (e.g., audio and video).</p>	<p>Self-paced, anywhere, any-time instruction available on the Internet.</p>	<p>An instructor-led approach where the instructor and participant are separated by place or time.</p>	<p>Online technology in which students and faculty can actively contribute to and continually update the course content in an online format</p>
<p>Pro</p> <ul style="list-style-type: none"> • Easy access to training on computer • No Web access needed 	<p>Pro</p> <ul style="list-style-type: none"> • Available on demand • No travel required • Cost efficient 	<p>Pro</p> <ul style="list-style-type: none"> • Real-time mentoring • No travel required • Cost efficient 	<p>Pro</p> <ul style="list-style-type: none"> • Easy access anytime and virtually anywhere
<p>Con</p> <ul style="list-style-type: none"> • No human contact • Lack of instructor interaction 	<p>Con</p> <ul style="list-style-type: none"> • Technical Issues • Self-motivation needed to complete training 	<p>Con</p> <ul style="list-style-type: none"> • Technical Issues • Limited Interaction 	<p>Con</p> <ul style="list-style-type: none"> • Technical Issues • Security breaching issues

Timeline & Evolution of Distance Learning in the U.S.



Web-Based Training, Multimedia-Based Training (WBT, MBT)

Pros

- Multi-dimensional learning environment
- Self-paced learning
- Flexibility of schedule
- Immediate responses to answers
- Learning effectiveness
- One-to-one interaction
- Increased knowledge retention
- Cost effectiveness

Cons

- Lack of human face-to-face interaction
- Lack of hands-on exercises on equipment
- Costly to produce customized programs

Twitter, Google, iPhone/iPad, Facebook (TGIF) and Smart Technology Environment

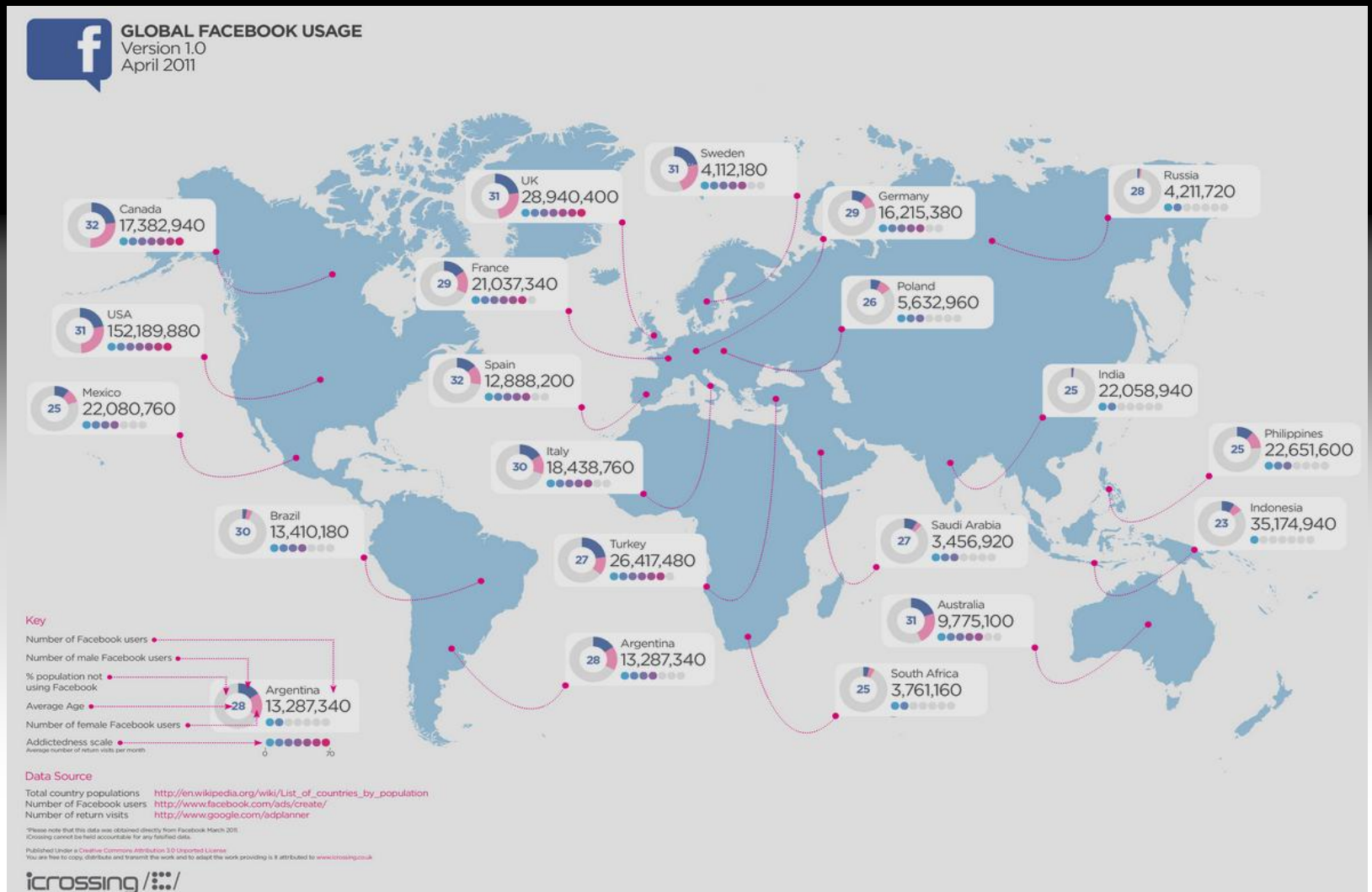
Pros

- **One of the most influential modern-day inventions**
- **Not only multi-functional, but also versatile devices exist**
- **Provides real-time accessibility to any one, any time, and anything**
- **Provides an increasing need to stay connected**

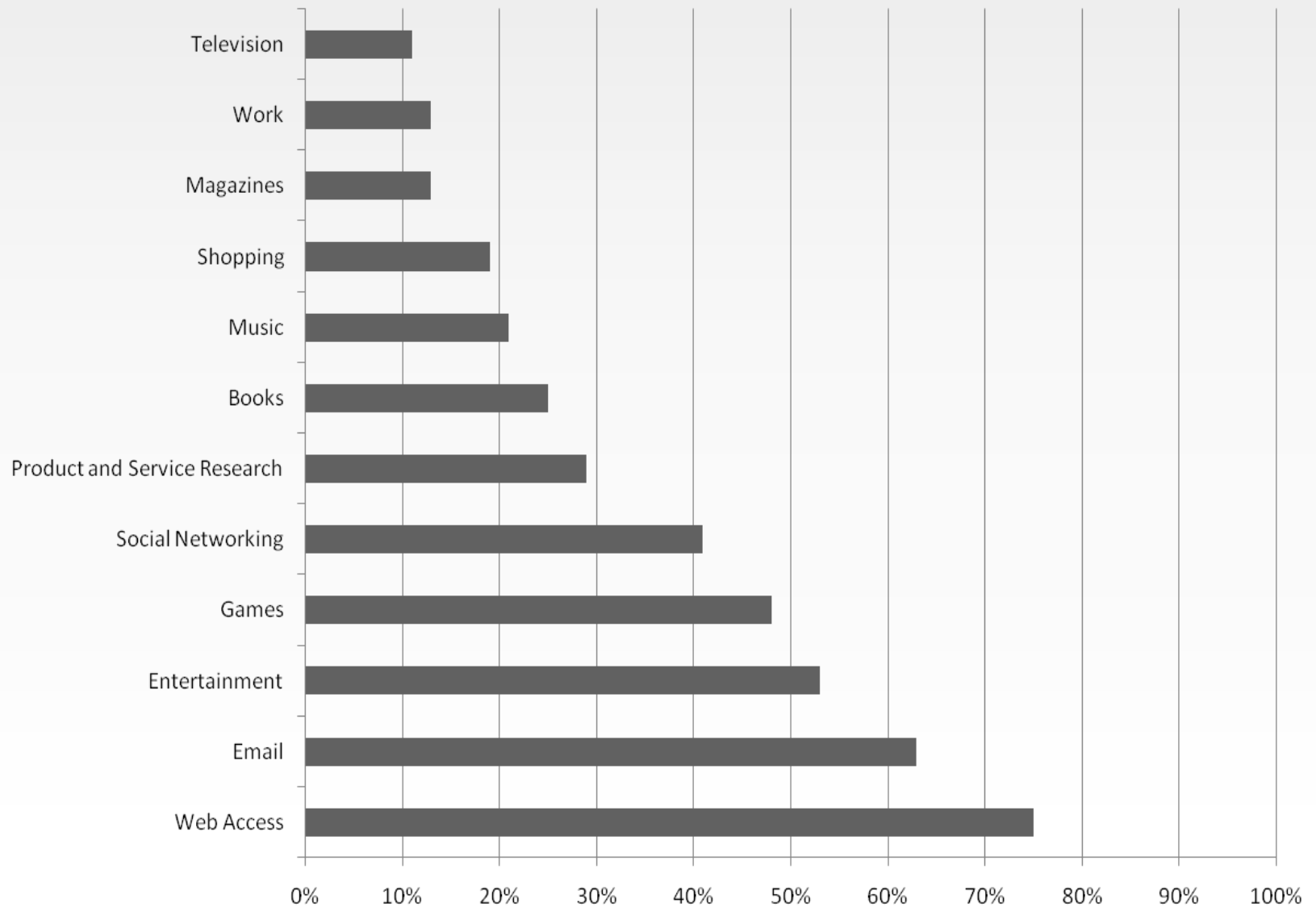
Cons

- **Distractions caused by the Internet or text messages; Unreliability**
- **Smart technology-based products' dependence on high-speed data access (educators aiming to reach rural areas with limited data access coverage)**
- **Price point, lack of affordability**
- **Recurring costs associated with data plans**
- **Students cheating**

Global Facebook Usage



iPad Usage



Source: www.jeffbullas.com/2011/04/04/29-statistics-reveal-how-the-apples-ipad-is-changing-our-lives

iPad/iPhone in the Classroom



1. Reading
2. Listening/Viewing
3. Conduct On-Demand Research
4. Digital Organizing
5. Post and publish content
6. Communicate/Collaborate
7. Facilitate note taking
8. Offer Individualized instruction



Social Media in the Classroom

Ways Instructors Can Use Social Media

Coursework

1. Tweet lesson plans
2. Instant feedback from students
3. Post homework on Facebook
4. Post class notes
5. Assign class projects

Communication

1. Send messages/updates
2. Schedule events on Facebook or post updates on Twitter
3. Share multimedia content
4. Post student projects
5. Recruit guest speakers
6. Conduct interviews with guest lecturers



Enhanced communication between students and instructors via social media outlets

Education Seminars & Events

Education Home [How to Buy](#)

Education Seminars & Events

Welcome to Apple Education Seminars and Events

Join Apple experts for online seminars or events in your area and learn how Apple education solutions are enhancing teaching and learning and increasing student achievement.

Title	Date	Location	Product
<input type="checkbox"/> Descriptions <input checked="" type="checkbox"/> Face-to-Face Seminars <input checked="" type="checkbox"/> Online Seminars			
Made for Learning - Mobility in Education/Imagine the Possibilities	DETAILS Wed, Jun 22, 2011	Pewaukee, WI	iOS
Supporting iOS Devices in Education	DETAILS Tue, Jun 28, 2011	Omaha, NE	iOS
Apple Server Update Seminar	DETAILS Thu, Jun 09, 2011	Gretna, NE	Other
iTeach SHU: Mobility and Education	DETAILS Tue, Jun 21, 2011	Greensburg, PA	iPad
Supporting iOS Devices in Education	DETAILS Wed, Jun 29, 2011	Columbus, NE	iOS
Made for Learning - Mobility in Education/Imagine the Possibilities	DETAILS Tue, Jun 21, 2011	Green Bay, WI	iOS
Apple Volume Purchase Program Webinar	DETAILS Thu, Jun 30, 2011	Online Event	Online Event
Learning with Apple: Accessibility (On-demand)	DETAILS Thu, Jun 30, 2011	Online Event	Online Event

Seminars

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IT Bootcamp

Last Modified: Wed May 21, 2008
Tracks in Video: 7

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- School of Dentistry Web
- Student iTunes Login
- University of Michigan Web

DESCRIPTION

These podcasts by dentistry and digital initiatives librarian Patricia Anderson cover current topics in using technology for teaching, learning, and research.

Video

Name	Time	Artist	Album	Price
1 Why work and teach in Second...	44:38	Patricia Anderson	IT Bootcamp	Free GET
2 SecondLife: Getting Started	42:55	Patricia Anderson	IT Bootcamp	Free GET
3 Web 2.0 presentation tools: Fli...	36:55	Patricia Anderson	IT Bootcamp	Free GET
4 Power web searching: the 8-fo...	41:23	Patricia Anderson	IT Bootcamp	Free GET
5 Using RSS feeds personally an...	29:46	Patricia Anderson	IT Bootcamp	Free GET
6 Staying current with science bl...	45:58	Patricia Anderson	IT Bootcamp	Free GET
7 Online sources of current scie...	32:24	Patricia Anderson	IT Bootcamp	Free GET

7 songs

Podcasts

Augmented Reality & Trends

Augmented reality can be used in educational environment by:

- Making the subject matter easier to understand
- Improving the interactions among users
- Enhancing a person's perception of surrounding world
- Creating involvement and interest on the subject



TOP SMARTPHONE APPS

TO IMPROVE TEACHING, RESEARCH, AND YOUR LIFE

Checking email on the go

Internet in pockets helps professors collaborate, teach, and collect data in new ways

1. Taking attendance
2. Collecting data
3. Reading scholarly articles
4. Recording notes
5. Using textbook tools (readers)
6. Planning lectures (“mind mapping”)



David M. Reed, Capital U.

The Future of the Textbook

Tablets are revolutionizing the way people access content



<http://vimeo.com/14448256>

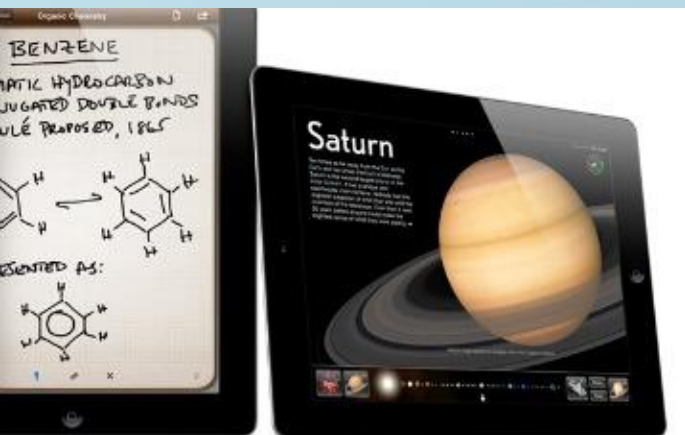
Source: Kaufman, M., "The Future of the Textbook," June 11, 2011, <http://www.ipadinschools.com/287/the-future-of-the-textbook/> (July 31, 2011).

Construction Career Education

- Construction e-learning via smartphones, iPads, other tablets
- Publishers and developers are creating materials moving far beyond a textbook or a downloadable series of workbooks
- <http://www.raisedfloorlivingpro.com/video/raisedfloor/>



Are Tablets Ready for Classrooms?



Vineet Madan, VP of McGraw-Hill Higher Education eLabs:

1. Tablets are the best way to show textbooks
2. Classrooms are ready for tablets
3. Tablets fit students' lifestyles
4. Tablets have the software to be competitive
5. Tablets integrate with education IT trends
6. Tablets are becoming more available

“Using a single textbook for class might be easier for the teacher, but it is an outdated standard that does not rise to the era we are in.”

Business Schools Testing iPads

- Grenoble's Ecole de Management tested iPads with 40 students
- W. P. Carey School of Business at Arizona State University completed trials
- Georgia State University's Robinson College of Business (EMBA, PMBA)
- Darden School of Business
- Stern School (NYU)
- Univ. of Notre Dame Mendoza College of Business



Sources: Taylor, P., "E-books fail the classroom test," Sep. 6, 2010, *FT.com*, <http://www.ft.com/cms/s/2/e185bce2-b76a-11df-839a-00144feabdc0.html#axzz1TKFLePod> (Aug. 2, 2011); Diamond, L., "GSU business school turning to iPads," *Atlanta News*, Nov. 11, 2010, <http://www.ajc.com/news/atlanta/gsu-business-school-turning-737584.html> (Aug. 2, 2011); Bradshaw, T., "Tablet devices: iPad takes over as the lecture hall aid of choice," *FT.com*, Mar. 14, 2011, <http://www.ft.com/intl/cms/s/2/d776cbf6-4b71-11e0-89d8-00144feab49a.html#axzz1TKFLePod> (Aug. 2, 2011).

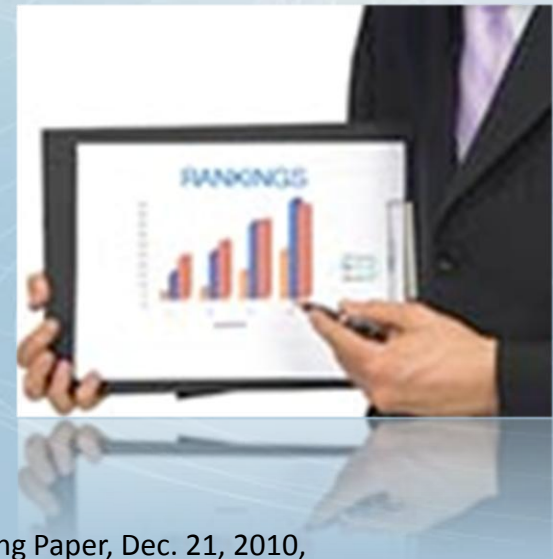
UNIVERSITY OF NOTRE DAME

MENDOZA COLLEGE OF BUSINESS

The ultimate goal of this study is to design an “ePublishing ecosystem” to serve faculty, students and staff by streamlining the creation, distribution, sharing, reading and annotation of eMaterials in a cost-effective manner.

In particular, we found it striking that on average, students feel the iPad:

- a) encourages exploration of additional course topics
- b) helps manage time
- c) provides new functions/tools
- d) increases learning
- e) makes courses more interesting



PROS AND CONS OF THE iPad:

SUMMARY OF FOCUS GROUP DISCUSSIONS

MENDOZA STUDY

Pros:

Portability
Consolidation – everything in one place
Battery life
Versatility – phone (Skype), text, email
Connectedness
Email much easier on iPad
Calendar on iPad more effective than on iPhone
Great for games

Cons:

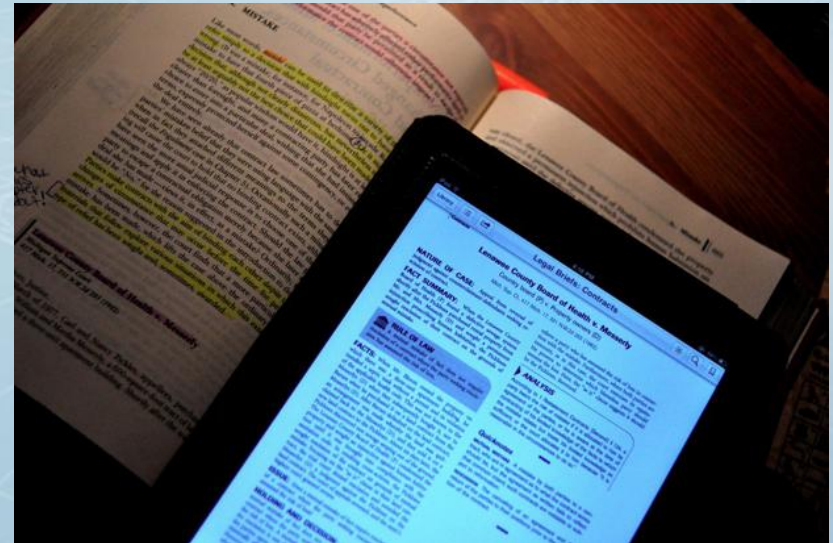
Annotated highlighting – not quite there
Taking notes on device (whether typed or hand-written) is very difficult
Helpful more for business – not so much classroom
Uncomfortable with the fact that there is no “save” button
Unable to multi-task when using device -- cannot have two windows opened side by side
When using a textbook, difficult to flip back and forth between pages
Glossy screen of device creates glare

***Recurring Theme: The ancillary benefits of the iPad (consolidation of personal/school lives, constant connectedness, etc.) outweigh the device’s drawbacks as an academic tool.**



iPad Pilot

- 2009 Kindle DX eReader pilot failed
- Strengths of iPad:
 - Legibility
 - Touch screen
 - Form factor
 - Battery life
 - Durability
 - Paper savings
 - Single-function benefit
 - Referring to texts in class
(using Aji *iAnnotate PDF* app)
 - Highlighting and annotation



flat world knowledge



Premium Open Textbooks by Top Authors **Fully Editable. Totally Free.**

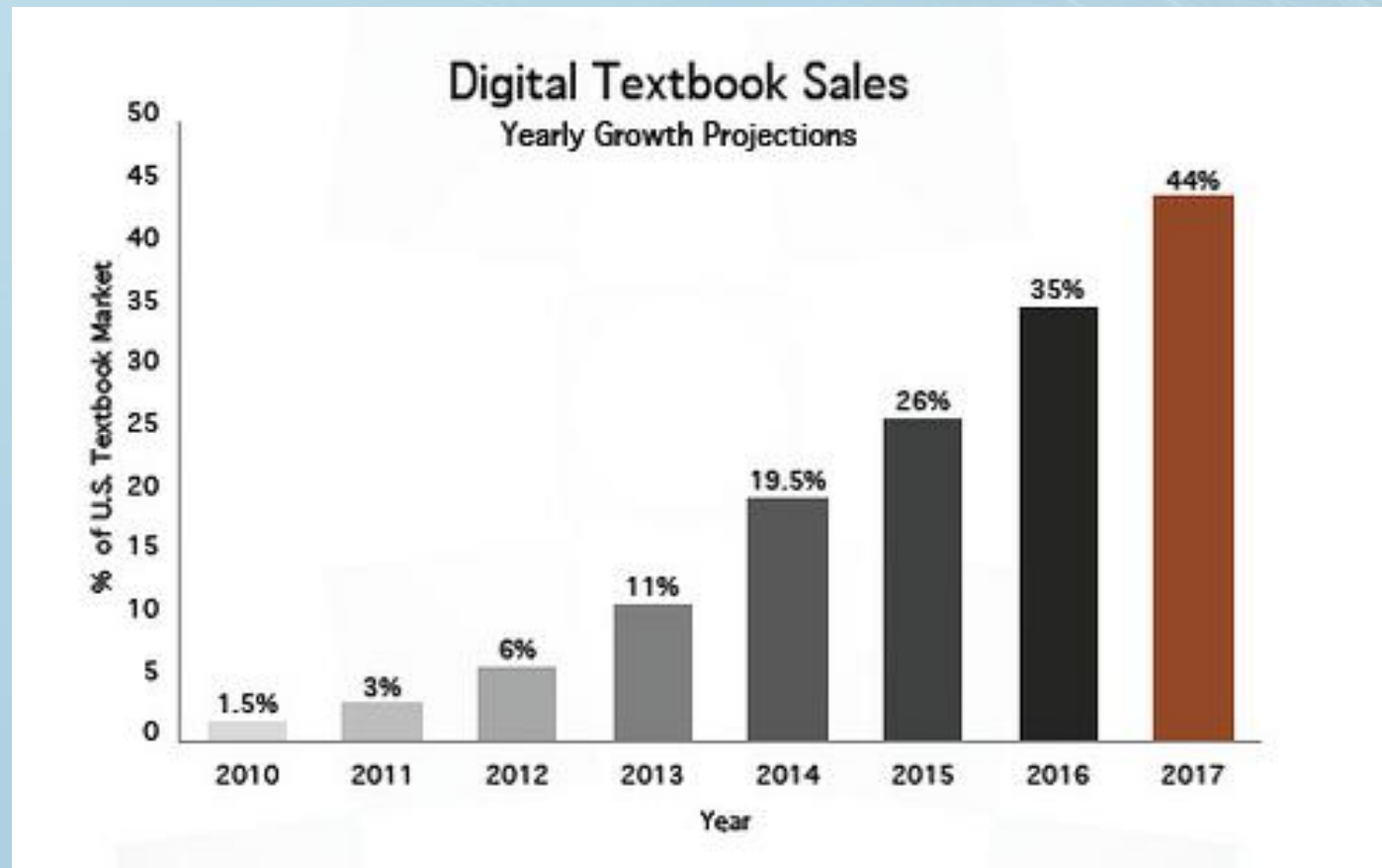
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E-textbooks: Cheaper and Better



Source: Reynolds, R., "Wither E-textbooks in Higher Education – Price and Availability," July 27, 2011,
<http://blog.xplana.com/2011/07/wither-e-textbooks-in-higher-education-price-and-availability/> (July 29, 2011).

Weblog Experiment

- Back in 2005, a Weblog experiment was conducted in an undergraduate class where students collaborate freely on a designated Weblog.
- The outcome of learning was significantly positive in that students were able to participate academic activities anytime and anywhere.
- The feedback of students reflects major benefits of utilizing such flexible method.



Discussion Board for MBA/MSIS/BIS Group: Blog -

Thursday, April 20, 2006

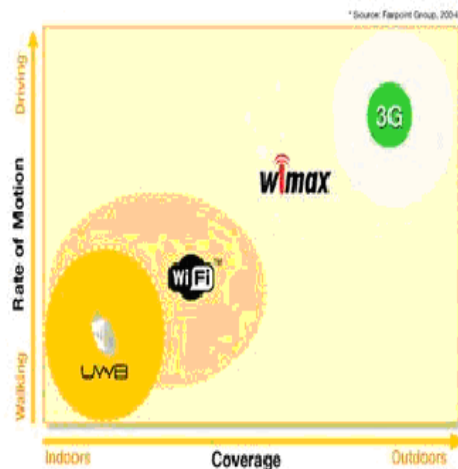
Class Announcement

Tim Griffin (Director of Systems/Networks at ITS) will come to our class on next Wednesday to give us an overview of wireless infrastructure at MSU.

posted by @ 8:18 AM 0 comments

Tuesday, April 18, 2006

Intel



Merging Wi-Fi with WiMax

About Me

Name:

[View my complete profile](#)

Links

- Google News
- MSU WebCTdit-Me
- FeedBurner

Previous Posts

- Class Announcement Tim Griffin (Director of System...
- Intel Merging Wi-Fi with WiMax The chip giant's...
- The Last Mile Access and WiMax Technology The I...
- A Brief Demo of Camtasia
- Read the Wireless Quick Facts April/2006
- Testing

Archives

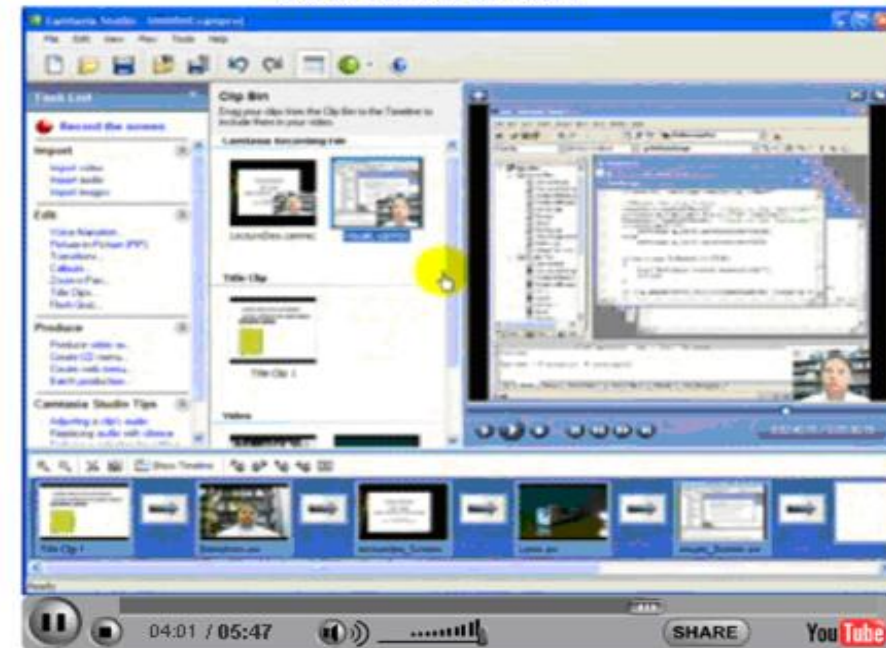
- April 2006

cities to become "metro zones" for portable outdoor broadband wireless access.

posted by Dr. J. P. Shim @ 3:48 PM 0 comments

Monday, April 17, 2006

A Brief Demo of Camtasia



posted by @ 9:00 PM 1 comments

WIRELESS QUICK FACTS

April 2006

Read the Wireless Quick Facts

Topic	Statistic
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A 2006

Topic	Statistic
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Quick Facts

Read the Wireless

posted by @ 9:00 PM 1 comments

Freshly Pressed:

The best of **287,309** bloggers, **282,919** new posts, **350,823** comments, & **66,759,910** words today on WordPress.com.



Earth: no planet for old men world sketches



Swifter. Higher. Hipper? Studio 360 Blog



THE MANSION FAMILY



Japan's 'Bad-Boy' Snowboarder

Luke Winn at the Winter Olympics – St.com



I'm So Tired of the Weirdos Pearls Before Swine



'Deadliest Catch' captain's brave last days Larry King Live



Which is your favorite winter sport?

Gadget Pick: Nexus One with Android. Works great with WordPress.



OK, Admit It. You Like (Insert Guilty Pleasure Here). A Romp through Mommyhood



Warm winter gloves Boys' Life magazine



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The Latest News

January 29th 2010
Make More Money with Your Blogetery Blog!
1 Comment

January 20th 2010
Planned Maintenance on Jan 21-22
No Comment

December 1st 2009
New Christmas Theme & more...
6 Comments

Featured Blogs



Blogger

Language: English

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Username (Email):

Password: (?)

SIGN IN

☐ Remember me (?)

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Social Media in Classrooms

Objectives:

- engage students; promote after-class academic pursuits; improve learning effectiveness.

Caveats:

- cost of ownership; discrepancy of service penetration; stickiness; mental preparedness of instructors who answer high-tech inquiries from students.



Incentives:

- platform independence; students' readiness of moving forward.

The Future of Virtual Collaborations in Education

- Cloud computing deviants such as Dropbox and iCloud offer another innovative collaboration in education
- It is an enhancement rather than replacement of the existing lecturing methodology
- The borders between academic and personal lives are becoming less and less obvious



- Due to the ubiquitous access of information, stakeholders are more intelligent about their social surroundings and thus able to make informed decisions in a prompt manner

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Group Blog

Ubiquitous facial-recognition software is coming

Written by iTeach Webmaster / 4 days ago / 0 Comments

The [Wall Street Journal](#) (behind a paywall) and [Slate](#) reported earlier this month on new software/hardware that runs on an iPhone that will analyze facial features from a freshly taken photograph and report back whether the person is in a database of wanted people.

As [Slate](#) suggests: While the first pass of this will be law enforcement, "soon face recognition will be ubiquitous." If you think your Facebook profile makes you vulnerable now, imagine what happens to our understanding of privacy when someone on the bus can snap a picture of you, find you in a database, and mash up that ..

[Continue Reading »](#)[0 Comments »](#)

Profile Completeness

**Danny Mittleman****Professional Profile is 65% Complete.****65%**

- | | |
|------------------------------------|-------|
| + Answer Questions | + 10% |
| + Add Interests | + 10% |
| + Add Expertise | + 5% |



Create a site like this for other groups
you're involved with. [Signup Free »](#)

If you'd like to join, go to
"iteach social media"

This here is the requisite first blog post laying out what we will try to do with this blog.

While much of this site is loosely based around the Annual Editions: Technologies, Social Media, and Society text that inspired the site, this blog will attempt to stay current. The intent here is to blog about current events that touch on the topics of the site and provide a home for discussion about those event.

That said, lets see how this evolves once we have critical mass on the site.

Wikis aren't just for KM anymore

- Appropriate Wikipedia and use it for your own
- Encourage wikis for collaborative authoring, rather than Google Docs
- Teach reciprocal authoring methods
- Wikis can support online debates!
- Treat wiki submissions as public to the class
- Encourage them to model good writing behaviors.

Public Blogging for Discussion

- Wordpress blog are used for online discussion
 - Levels playing field
 - Enables us to incorporate current events
 - Post from iPad; Post by email; etc.
- Wordpress is easy; TypePad is easier; Blogger is easier yet; and Posterous is easiest
- Consider finding partners and putting up a single blog across several courses/universities.

Many iPad Tools for Teaching

- Study.net, Kindle, Dropbox, Evernote, World Bank DataFinder, Calculator for iPad (required application at GSU)
- Almost seamless desktop access: **Splashtop**
 - PPT preview monitor
- Blog posting: **Blogsy**, **WordPress**, others
- Scan RSS feeds and post: **FeedReader**, **Zite**, others
- Social network browsing. **MyPad+**, **HootSuite**, **LinkedIn**, **FaceBook**, **Twitter**, others
- Useful browsers: **Diigo**, **SideBySide**, **Skyfire**.

3R vs. 3 new “R”

- **3R** – Reading, wRiting, aRithmetic
- **3 “new”R** – Retraining, Relocation, and Retire

The End

Any questions or comments?



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