Emerging Technologies: Disruption or Bridge to the Future?

Ben Satterfield, Ed.D.

Handout Available at:
www.center4ATexcellence.com//resources.shtml

CREATE
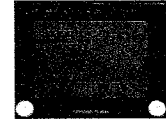The Center for Research & Expansion of Assistive Technology Excellence

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Emerging Technologies

Mobile handheld technology (smart phones, tablets, PDA's)
- Cloud computing
- Applications of "Telemedicine"
- Social Media

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Objects in Mirror May Be Closer Than They Appear

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Emerging Trends

- More Self-service by clients & students
- Highly specialized Professionals for only most complex cases
- More home-based, locally provided services
- Integration of services
- The "offshoring" effect

  » Open Minds (2011)

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Objective

To address these questions:
- What are emerging/disruptive technologies?
- How will these affect learning?
- What trends are emerging?
- Are these trends constructive?
- How can we take advantage of opportunities in the current economy?
- How might these changes affect how we do what we do?

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Mobile Computing

- iPad, iPhone
- Other Smart phones
- Android
  - Tablets
 - Phones
- Windows 7 Tablets

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Mobile Computing: AAC

- Emergence of mobile devices
  - Apps individual choices
- Advocacy Issues
  - Individual empowerment
    - Insurance, Medicaid, Dr Rx unnecessary
  - Lower cost
- Complexity of service provision
  - Need for professional support
  - Need for training
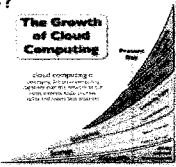- Does Available + Low Cost = Appropriate?

  » AAC RERC White Paper (2011)

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The Cloud: Trends

- Google Wallet / iCloud
- Textbooks in the clouds?
- Accessed by iPad/Kindle/PC?
- Supplemental materials available on demand?
- AAC GPS-Based Language Boards?

The Growth of Cloud Computing

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Mobile Computing: Literacy & Learning

- Future of textbooks?
- Digital literacy
  - Opportunities
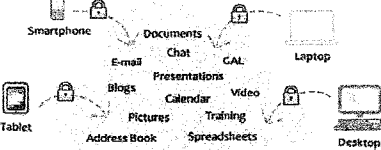 - Challenges

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Telemedicine

Interactive AV Media
Powered by Technology
Rapidly developing
Addresses key needs
- Serving remote areas
- Address Limited Resources

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The Cloud

Smartphone Documents
E-mail Chat CAL Laptop
Blogs Presentations
Calendar Video
Tablet Pictures Training
Address Book Spreadsheets Desktop

Cloud Computing

Having secure access to all your applications and data from any network device

From Wikipedia, Cloud computing

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Telemedicine: Trends

State of VA to test distance delivery of Speech-Lang. Therapy services in 2011-12
Remote monitoring for Cognitive Support
- Job Coaching
- Independent Living

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Social Media

- Associated with Info Sharing, User Centered Design, & Collaboration
  - Facebook
  - Twitter
  - Web 2.0
    - Blogs
    - Wikis

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Trends: Where are we headed?

One Possibility:

TED (Technology Entertainment & Design): "Sixth Sense" from www.youtube.com

- Pranav Mistry
- Pattie Maes

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Social Media

"...social media tools may help students develop their abilities to be more self-directed, capture and assimilate lots of information, make them more reliant on feedback from teachers and peers, and bring more cross-disciplined insights to their work while giving their own sources for content production and self-expression." NCTI Summary of Panel Discussion from 2009

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Emerging Trends: Social Media

Person Centered Strategies

- AAC Users Perspective on:
  - Text messaging,
  - Tweeting
  - Internet Access
- Collaborative learning (Constructivism)
  - Wikis
  - Blogs

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