Why m-Learning is Important!

Irwin King

king@cse.cuhk.edu.hk
http://www.cse.cuhk.edu.hk/~king

Department of Computer Science & Engineering
The Chinese University of Hong Kong



Social Networking

HOW TO USE WEB 2.0 IN THE ENTERPRISE



PART 1: COMMUNICATE WITH YOUR EMPLOYEES



What's On the Menu?

- The m-Learning Paradigm
- Why iPhone is a key piece in the puzzle
- Activities @ CUHK

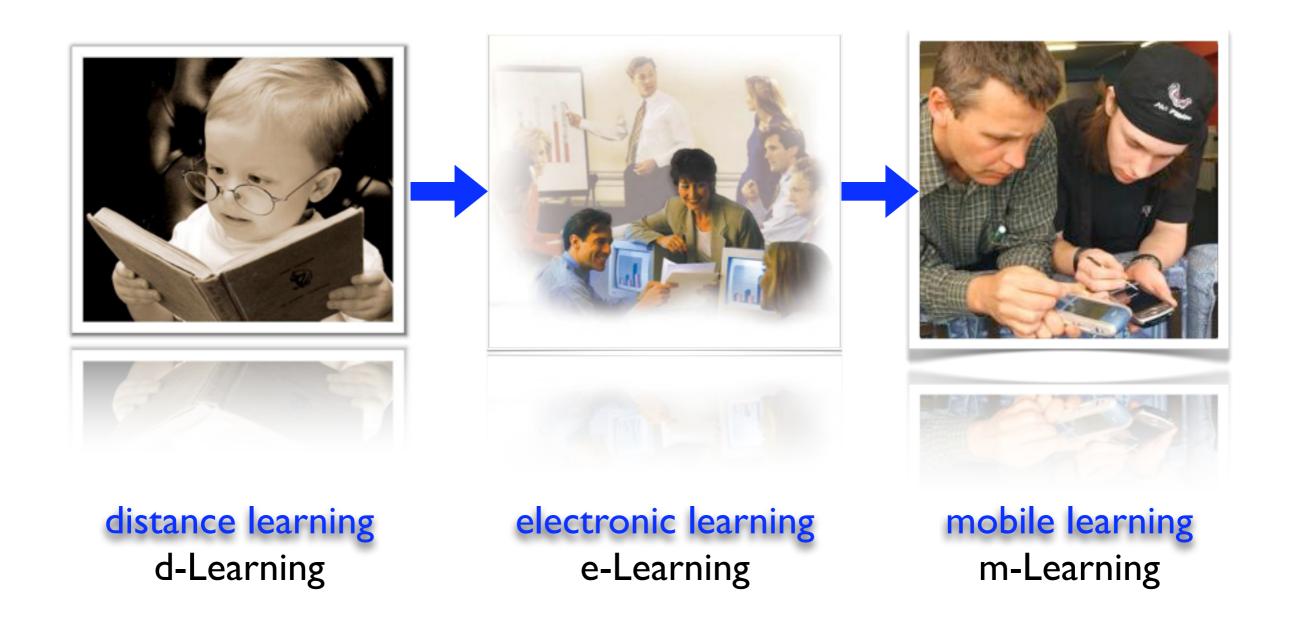


Web 2.0

- Web as a medium vs. Web as a platform
- Read-Only Web vs. Read-and-Write Web
- Static vs. **Dynamic**
- Restrictive vs. **Freedom & Empowerment**
- Technology-centric vs. User-centric
- Limited vs. Rich User Experience
- Individualistic vs. Group/Collective Behavior AttentionTrust.org krugle
- Consumer vs. **Producer**
- Transactional vs. **Relational**
- Top-down vs. **Bottom-up**
- People-to-Machine vs. People-to-People
- Search & browse vs. **Publish & Subscribe**
- Closed application vs. Service-oriented
 Services
- Functionality vs. **Utility**
- Data vs. Value



Evolution of Learning and Training





What is m-Learning?

New Learning Paradigms	Mobile Technologies
Individual/Learner centered	Personalized Services
Collaborative learning	Networked/Wireless
Situated learning	Mobile awareness
Contextual learning	Context awareness
Ubiquitous learning	Ubiquitous
Life long	Durable



What is m-Learning?

- Refers to the use of mobile and handheld devices in teaching and learning
- Mobile implies
 movement and
 mobility--to learn "on
 the go"





Why m-Learning?

- Enhance learner's success
 - Real world skills
 - Access learning materials from anywhere and anytime
 - Just-in-time learning-reference tool for quick access to data in the field
 - Interact with others
 - Collaborate learning



















m-Learning Devices

- PDAs
- Tablet PCs
- Mobile phones
- Wearable computers
- Laptop computers
- E-book readers
- Hybrid devices



















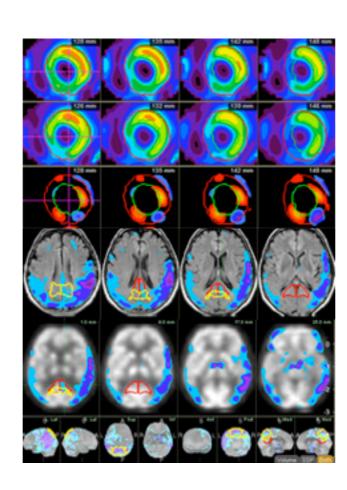
Limitation of m-Learning Devices

- Small screen size and limited storage capabilities
- Batteries require regular charging
- Lack of common platform
- More easily lost or stolen
- Much less robust than desktops
- Get outdated very quickly
- Security and privacy issues
- Limited bandwidth problems
- Difficulties to upgrade



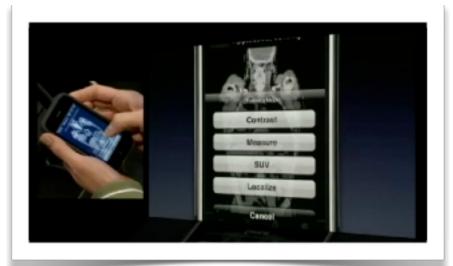
iPhone in Medicine







Medical resources developed for the iPhone can be used by students and practitioners



Images



online version

http://jeffreyleow.wordpress.com/2008/06/10/iphone-in-medical-education/

Hong Kong Mobility in Education Workshop, Irwin King, Hong Kong, April 30, 2009

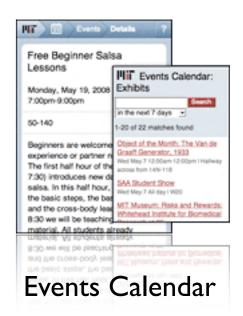


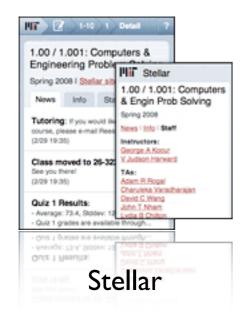
MIT Mobile Project

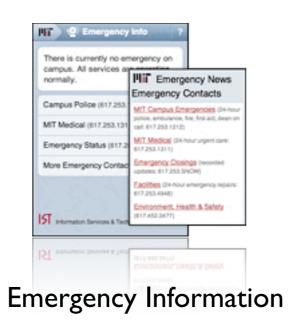














http://mobi.mit.edu/



iPhone Relevancy









- Device convergence
 - PDA, media player, phone, input device, light-client net device, etc.
- Solid development platform
- Excellent distribution channels



iPhone @ CUHK

- Attended WWDC2008
- iPhone Final Year Projects
- iPhone Development Program
- Science Park Partnership
- Courseware @ CSE?
- Mobile Campus @ CUHK?



Whirlwind





Maze Game









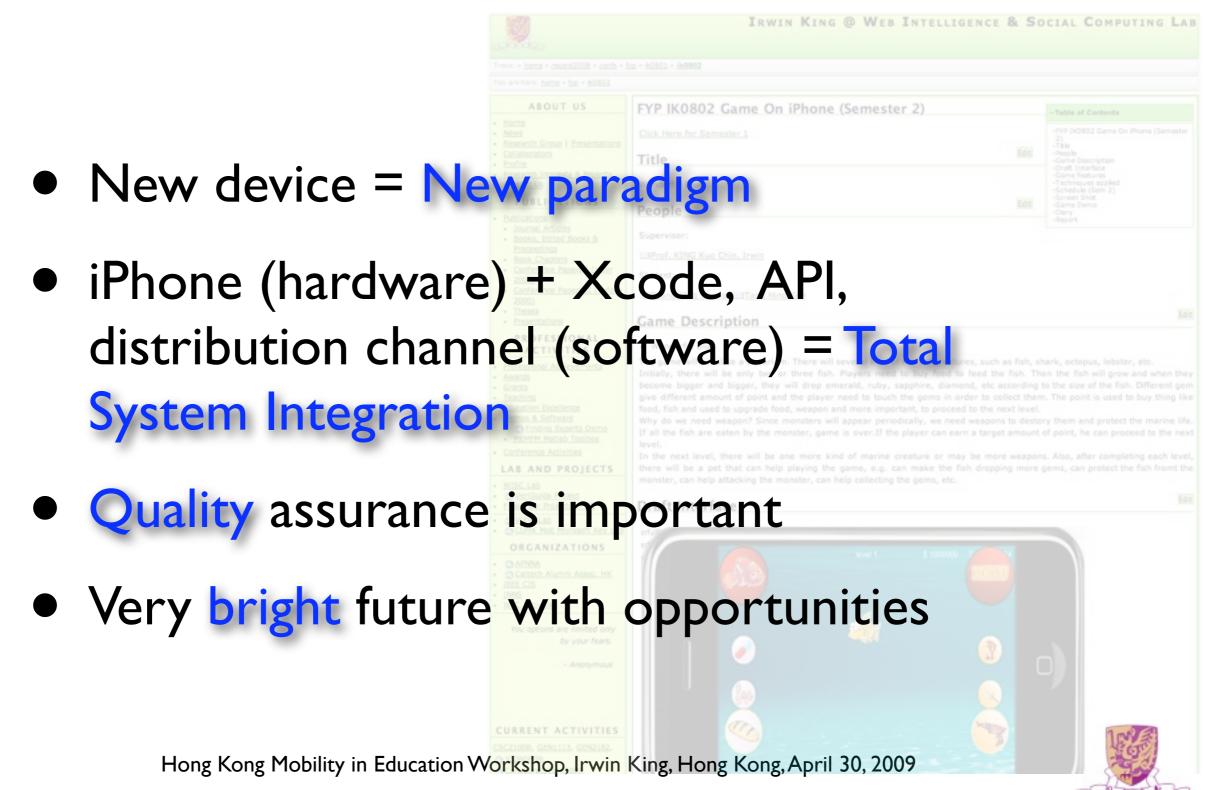


Wonderful Blue





Lesson Learned



On the Horizon

- Content generation
- New learning paradigms
 - Social Networks
 - Collaborative/Distributed Learning
- Integration, Interoperation, Infiltration!



Q&A

http://www.cse.cuhk.edu.hk/~king

