Ubiquitous Learning for the 21st Century: Implications for Higher Education

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1890

120 years apart

2010
The tablets that have changed the world

Source: http://www.wired.com/gadgetlab/2011/03/gallery-ancient-slates/?pid=1634
Smartphone Predictions by IDC
(International Data Corporation)

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Android</td>
<td>39.5%</td>
<td>45.4%</td>
<td>23.8%</td>
</tr>
<tr>
<td>BlackBerry</td>
<td>14.9%</td>
<td>13.7%</td>
<td>17.1%</td>
</tr>
<tr>
<td>iOS</td>
<td>15.7%</td>
<td>15.3%</td>
<td>18.8%</td>
</tr>
<tr>
<td>Symbian</td>
<td>20.9%</td>
<td>0.2%</td>
<td>-65.0%</td>
</tr>
<tr>
<td>Windows Phone 7/Windows Mobile</td>
<td>5.5%</td>
<td>20.9%</td>
<td>67.1%</td>
</tr>
<tr>
<td>Others</td>
<td>3.5%</td>
<td>4.6%</td>
<td>28.0%</td>
</tr>
<tr>
<td>Total</td>
<td>100.0%</td>
<td>100.0%</td>
<td>19.6%</td>
</tr>
</tbody>
</table>

Mobile Scenario in Malaysia

26 million population in Malaysia

28.9 million mobile phone subscribers

Source:
Malaysian Communications and Multimedia Commission, 2009
Internet Connection in Malaysia

Over 90 pct broadband penetration by 2011/12
THE IPAD AND IPHONE CRAZE IN MALAYSIA
Open University Malaysia

i10

With the Hyundai i10, you know you are well taken care of on the road. Apart from its growing popularity as the most fuel-efficient car in its class, the Hyundai i10 is also packed with an impressive line-up of safety features.

Enjoy peace of mind with a Hyundai because a safe journey is more than just about buckling up. Visit our showrooms to test drive an i10 today!

Get an iPhone 4 (16GB) for FREE** with every purchase of a Hyundai i10.

(Promotion valid until 31st January 2011)
The Star’s iPad app launched

Today, we mark yet another milestone as the first Malaysian media company to have an iPad application.

No Kay Tat

In 2009, we marked yet another milestone as the first Malaysian media company to have an iPad application,” said No Kay Tat. The Star app had proven to be a massive hit and attracted over 22,000 downloads since it was made available in January last year.

The venture into iPad has been well received, with 10 new applications among the top 10 most popular applications on the Malaysian iTunes store since its release, said No Kay Tat, adding that the introduction of the application was “a potential game changer” for the company.

He said the significant number of downloads is a ‘good sign’ of something to be very proud of.

The application new media vice-president and announced that apps for The Star’s mobile device would be available soon.

The Star’s iPad application is supported by honour-partners - Mercedes-Benz Malaysia Sdn Bhd, Perfect Home 11 (CNW Events Marketing Sdn Bhd), HSBC Bank Malaysia Bhd and VITEL Communications Sdn Bhd.

The application provides the exclusive content in the form of articles from event collateral on various topics.

It can be downloaded from the iTunes App Store for free.

New content is published in The Star’s iPad application from Monday to Friday each week and can be downloaded at any time.
DIGITAL LEARNING OPPORTUNITIES
Learning = Access
Ten Openers: WE-ALL-LEARN

- Web Searching in the World of e-Books
- E-Learning and Blended Learning
- Availability of Open Source and Free Software
- Leveraged Resources and OpenCourseWare
- Learning Object Repositories and Portals
- Learner Participation in Open Information Communities
- Electronic Collaboration
- Alternate Reality Learning
- Real-Time Mobility and Portability
- Networks of Personalized Learning
Memorizing information is now much less important than knowing how to access information.

Elliot Masie calls this “fingertip knowledge”.
Googlization of Learning?

Features
Published January 2008

On Demand: The Googlization of Learning

John Ambrose

Just a decade or two ago, people thought of learning as a one-way communication, typically held in a classroom setting. Employees would leave their jobs for a while to attend training. Today, of course, most learning organizations realize that instructor-led training is no longer enough. Numerous studies have pointed to the shortcomings of traditional classroom settings for gaining and retaining knowledge. According to a report by the Research Institute of America, 33 minutes after completion of a live course, students retain only 50 percent of covered information. By the second day, only 33 percent is retained, and by day 30, all but 13 percent of the information covered in the course is lost.

To combat this problem, many organizations have invested in libraries of training materials. However, these are of little use, unless they are easy to locate and even easier to consume. Regrettably, as a learning industry, this is one area where

Faced with a dearth of easily accessible learning assets, employees may turn to the information they need to perform day-to-day tasks. These are the same search for the telephone number of the local pizza joint. However, since consumer search engines sort content from bad, accurate content from flawed or serious content from satirical, the information the employee needs is just a search away.

Read on here:
http://bit.ly/7wvPRb
How can sharing help globally?
Collaborative learning tools
Learner-Centric Learning

Adapted from: Morrison(2003). E-Learning strategies: How to get implementation and delivery right the first time. Hoboken, NJ: John Wiley
Mobile Learning at OUM

Self Managed Learning
- Course Modules
  - With support from:
    - Multimedia Courseware
    - Learning Objects
    - Podcasts
    - Digital Library
    - Peers
    - Tutors
    - Subject Matter Experts

Online/e-Learning
- Resources
  - Multimedia Courseware
  - Learning Objects
  - Podcasts
  - PDF Documents
  - Microsoft Office Attachments
  - Digital Library

Face-to-Face Tutorials
- Classroom Environment
  - Formal Classroom
  - Computer Laboratory
  - Science Laboratory

- Number of Meetings
  - 5

- Teaching Strategies
  - Direct
  - Indirect

SMS Motivation

SMS Content

SMS Course Management

SMS Tips

SMS Forums
Mobile learning at OUM

August 2008
- Mobile learning team set up

October-December 2008
- Survey to determine learner’s readiness for mobile learning

January 2009 (OUMH11 03)
- Podcasting
- mLearn portal

May 2009 (OUMH11 03)
- SMS
- Facebook
- Twitter
- mLearn portal
- Learner “buy-in”
- SME “buy-in”

September 2009
- 3 courses
- Improve blend of m-learning/e-learning, f2f tutorial & print module
- Learner buy-in
- SME buy-in

January 2010
- 8 courses
- Facebook
- Twitter

May 2010
- 3 courses
- Twitter

September 2010
- 1 course

January 2011

13,000 students
More than 10 courses
Use of Social Learning Platforms
OUR MISSION

Academic Earth is an organization founded with the goal of giving everyone on earth access to a world class education.

Learn more about our mission.
Thousands of video lectures from the world's top scholars.
OUM iRadio/podcasts

http://iradio.oum.edu.my
Open Educational Resources

Collaborative Avenues
http://www.oercommons.org/
Connexions is:
a place to view and share educational material made of small knowledge
chunks called modules that can be organized as courses, books, reports,
etc. Anyone may view or contribute:

- authors create and collaborate
- instructors rapidly build and share custom collections
- learners find and explore content

More about us ...

FEATUED CONTENT

Advanced Algebra II
The world of second-year algebra comes alive in Kenny Felder's Advanced Algebra II. Felder, a high school math teacher in North Carolina, designed his course using a nontraditional approach to a very traditional subject. Centered around a Homework and Activities book, along with accompanying Conceptual Explanations and Teacher's Guide collections, Advanced Algebra II tackles topics by focusing on comprehension rather than straight lecture delivery.

Advanced Algebra II was selected by California's Free Digital Textbook Initiative to be included in a list of free textbooks available to California schools starting in Fall 2009.

Collaborative Statistics
Collaborative Statistics was written by two faculty members at De Anza College in

FIND CONTENT
16039 reusable modules woven into 986 collections.

Search Content Go

or browse by ...

Subject:
- Arts
- Business
- Humanities
- Mathematics and Statistics
- Science and Technology
- Social Sciences

Language

Popularity
Title, author, etc.

CREATE CONTENT

Creating content in Connexions is as easy as 1, 2, 3:

1 Get an account and log in to your workspace.
2 Make a module from scratch or convert it from a Word doc.
3 Publish your works, sharing them with the world.

Jump right in
- Get an account
- How to create a module in minutes
- How to create a collection with existing modules

Guides and tutorials
- New author guide
- Connexions Tutorial and Reference
iTunes U

350,000 apps and growing
The Elements

http://www.youtube.com/watch?v=kdiIaIUTBEc
The next computers for Learning?
Evolution in Instructional Technology

- Film (1940s)
- Television (1950s)
- Programmed Instruction (1960s)
- Systematic Instructional Design (1970s)
- Computers (1980s)
- The Internet (1990s)
- Social Networks and Web 2.0 (2000s)
- The Apps and the Web (2010- )
IMPLEMENTATION FRAMEWORK
Higher Education 3.0

3Cs Framework

21st Century Curriculum
Connected Learning Approaches
Competent “teachers” and students
<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Education 1.0</th>
<th>Education 2.0</th>
<th>Education 3.0</th>
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</thead>
<tbody>
<tr>
<td><strong>Primary role of professor</strong></td>
<td>Source of knowledge</td>
<td>Guide and source of knowledge</td>
<td>Orchestrator of collaborative knowledge creation</td>
</tr>
<tr>
<td><strong>Content arrangements</strong></td>
<td>Traditional copyright materials</td>
<td>Copyright and free/open educational resources for students within discipline, sometimes across institutions</td>
<td>Free/open educational resources created and reused by students across multiple institutions, disciplines, nations, supplemented by original materials created for them</td>
</tr>
<tr>
<td><strong>Learning activities</strong></td>
<td>Traditional, essays, assignments, tests, some groupwork within classroom</td>
<td>Traditional assignment approaches transferred to more open technologies; increasing collaboration in learning activities; still largely confined to institutional and classroom boundaries</td>
<td>Open, flexible learning activities that focus on creating room for student creativity; social networking outside traditional boundaries of discipline, institution, nation</td>
</tr>
<tr>
<td><strong>Institutional arrangements</strong></td>
<td>Campus-based with fixed boundaries between institutions; teaching, assessment, and accreditation provided by one institution</td>
<td>Increasing (also international) collaboration between universities; still one-to-one affiliation between students and universities</td>
<td>Loose institutional affiliations and relations; entry of new institutions that provide higher education services; regional and institutional boundaries breakdown</td>
</tr>
<tr>
<td><strong>Student behaviour</strong></td>
<td>Largely passive absorptive</td>
<td>Passive to active, emerging sense of ownership of the education process</td>
<td>Active, strong sense of ownership of own education, co-creation of resources and opportunities, active choice</td>
</tr>
<tr>
<td><strong>Technology</strong></td>
<td>E-learning enabled through an electronic learning management system and limited to participation within one institution</td>
<td>E-learning collaborations involving other universities, largely within the confines of learning management systems but integrating other applications</td>
<td>E-learning driven from the perspective of personal distributed learning environments; consisting of a portfolio of applications</td>
</tr>
</tbody>
</table>

Shall we aim for:

- **meaningful learning** for students who will enjoy learning, have fun and make progress and achieve
- **confident graduates** who will be able to live fulfilling lives
- **responsible citizens** who will make a positive difference to their family, society and nation
Connected learning approaches
Competent Teachers and Students

Source: http://www.apple.com/students/
SUCCESS FACTORS
eLearning → uLearning

31 March 2011
Glearn ZW Abas Melbourne 2011
THE END . THANK YOU

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