From Slate to Tablet: The Development of New Media for Learning in Taiwan

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Introduction

The Educational Technology in Taiwan

The world of Learning is changing

New idea or the change attitude

Facing the new challenge
The Educational Technology in Taiwan

- Audio-video instruction (TAECT)
  - National Audio-Visual Education Association 1959

- Educational/instructional technology
  - Taiwan Association for Educational Communications and technology 2004

- Dept. Educational Technology, TKU
  - Established in 1997, the first independent institute specialized in educational technology in Taiwan.
  - BA, MED, MED -in-service (for in-service teacher and professionals) and MED-online (for in-service teacher and professionals via online learning) degrees are available
The World of Learning is Changing

Some numbers and predictions

- The Centre for Learning and Performance Technologies
- Gartner Report 2014
- New Media Consortium Horizon Report 2014
The Centre for Learning and Performance Technologies (http://c4lpt.co.uk/)

The results of 8th Annual Survey of Learning Tools

Top 100 Tools for Learning 2014
Top 10 Tools for Learning 2014

1 - Twitter
2 - Google Docs/Drive
3 - YouTube
4 - PowerPoint
5 - Google Search
6 - WordPress
7 - Dropbox
8 - Evernote
9 - Facebook
10 - LinkedIn

It has been compiled by Jane Hart from the votes of 1,038 learning professionals from 61 countries worldwide and published on 22 September 2014.
Selected from Top 10 Tools for Learning 2014

12 - Moodle
13 - Prezi
18 - Wikipedia
26 - TED/TED-Ed
31 - Gmail
34 - Flipboard
40 - Khan Academy
44 - Google Maps
55 - Flickr
63 - iTunes
85 - Instagram(new)
95 - LINE (new)
Gartner Identifies the Top 10 Strategic Technology Trends for 2015  October 8, 2014

1 - Computing Everywhere
2 - The Internet of Things
3 - 3D Printing
4 - Advanced, Pervasive and Invisible Analytics
5 - Context-Rich Systems
Gartner Identifies the Top 10 Strategic Technology Trends for 2015  
October 8, 2014

6 - Smart Machines
7 - Cloud/Client Computing
8 - Software-Defined Applications and Infrastructure
9 - Web-Scale IT
10 - Risk-Based Security and Self-Protection
The NMC Horizon Report

2014 Higher Education Edition

Key Trends Accelerating Higher Education Technology Adoption

- Fast Trends: Driving changes in higher education over the next one to two years
- Mid-Range Trends: Driving changes in higher education within three to five years
- Long-Range Trends: Driving changes in higher education in five or more years
Key Trends Accelerating Higher Education Technology Adoption

Fast Trends:

- Growing Ubiquity of Social Media
- Integration of Online, Hybrid, and Collaborative Learning
Key Trends Accelerating Higher Education Technology Adoption

Mid-Range Trends:
- Rise of Data-Driven Learning and Assessment
- Shift from Students as Consumers to Students as Creators
Key Trends Accelerating Higher Education Technology Adoption

Long-Range Trends:
- Agile Approaches to Change
- Evolution of Online Learning
## Important Development in Educational Tech. for Higher Education 2012-2014

<table>
<thead>
<tr>
<th>Year Range</th>
<th>2014</th>
<th>2013</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 year</td>
<td>Flipped Classroom Learning Analytics</td>
<td>MOOCs Tablet Computing</td>
<td>Mobile Apps Tablet Computing</td>
</tr>
<tr>
<td>2-3 years</td>
<td>3D Printing Game &amp; Gamification</td>
<td>Game &amp; Gamification Learning Analytics</td>
<td>Game-Based Learning Learning Analytics</td>
</tr>
<tr>
<td>4-5 years</td>
<td>Quantified Self Virtual Assistants</td>
<td>3D Printing Wearable Technology</td>
<td>Gesture-Based Computing Internet of Things</td>
</tr>
</tbody>
</table>
New Idea or the Change Attitude

- From the history of Instructional Technology
- Slate vs. Tablet
- Preview (Remedial teaching) vs. Flipped classroom
New Idea or the Change Attitude

From the history of Instructional Technology
From the history of Instructional Technology

A bedtime story

https://www.youtube.com/watch?v=t5_v9Aqb9XA
New Idea or the Change Attitude

Slate vs. Tablet
New Idea or the Change Attitude

Preview (Remedial teaching) vs. Flipped classroom

- Student centered learning
- Instructor as a facilitator
- Collaborate with peers
New Idea or the Change Attitude

- Design and development of mobile English learning supporting system by integrating RFID technology for 4th grade students (JCIT 2012)
- The effects of GBL and learning styles on Chinese idiom by using TUI device (JCAL in press)
Design and development of mobile English learning supporting system by integrating RFID technology for 4th grade students (JCIT 2012)
The effects of GBL and learning styles on Chinese idiom by using TUI device (JCAL in press)
Facing the New Challenge

- New Idea or the Change Attitude
- Technology driven learning or Learning driven technology
Thank you for listening