

# “Education and Technological Change”

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Everything is possible with  
broadband...

# Early days of education

- Chalk and talk teaching style
  - Ballpen and papers
- Teaching Assistant Materials
  - Flipcharts, newspaper cuttings etc.
- Overhead Projector (OHP)
  - Plastic slide and marker pen

# Public spending on education, total (% of GDP)

- [The World](#)
- [Cross Countries](#)

# Ministry of Education, Malaysia underlined three basic thrusts:

- ICT literacy
  - Students have the access to use ICT facilities
- Role and responsibilities of ICT as a curriculum and P&P method
  - ICT become one of the subjects offered in SPM and STPM level
- Emphasizing ICT to increase productivity, efficiency and effectiveness of management system
  - e.g: EMIS, HRMIS,SAPS and etc.

# Technological Advancement in Education

- Computer, notebook and netbook
- Internet access
- Tablets
- Mobile/smartphones
- Video conferencing
- E-learning
- Online forum

# The Advantages of Technology in Education

- Cheaper and faster
  - Ease of access
  - Less workforce
  - Wider opportunities for prospective students
  - Avoid boring/tense symptoms
  - Attract more people to learn
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# Barriers in Integrating ICT at Schools

- Abdul Halim, 2008 in his research on selected eight Smart School, found that:
  - Too much syllabus to be finished
  - Time constraint because too much work to be done
  - Lack of computers in lab
  - Lack of ICT skills among teachers
  - Hard to find materials in a good quality



# Examples of Teaching Method Used in Malaysia

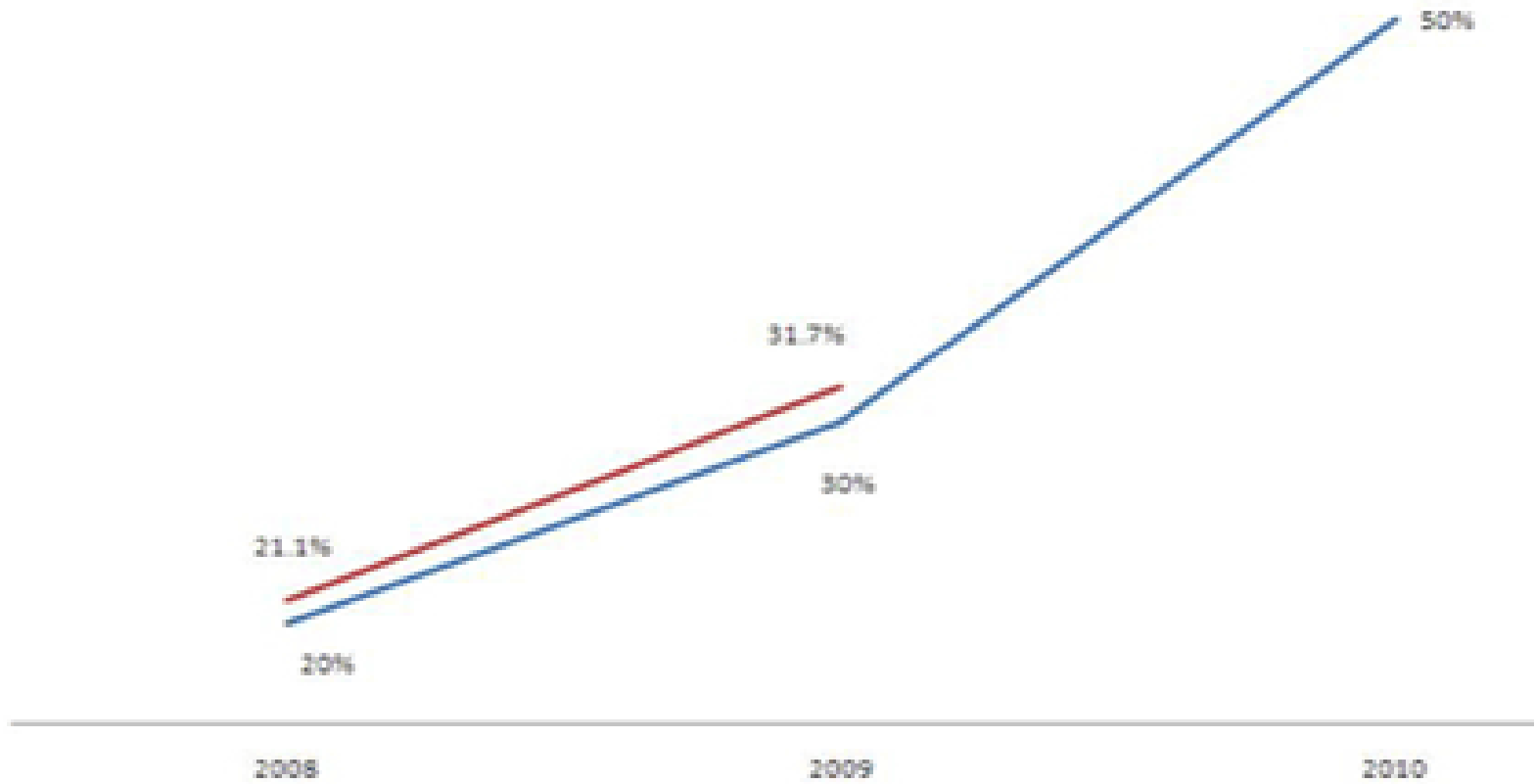
- E-learning
  - Online education
    - Moodle
    - VLE Frog
    - Blogs
  - E-mail
  - Video conferencing
  - E-Book
  - Tutor TV
  - Smart School Management System (SSMS)
-

# Some facts about education in Malaysia

- More than 70 per cent of trainee teachers from public universities agree that they have easy access to computer facilities;
- About 80 per cent of them have a good perception towards the use of ICT in education;
- 21.8 per cent of Malaysians own at least a set of computer at home in 2005, while Internet penetration is only 1.9 per cent


## HOUSEHOLD BROADBAND SUBSCRIPTIONS

— Target — Actual



Source : SKMM as of 29/05/2012

# What they say...



"The world has changed. Technology has changed it...Information technology has made it possible for us to connect and work with more people and in more locations around the world. Our world has shrunk; and so must our minds expand to learn to take in all that is now within our reach."

*Extracted from Speech by  
RAdm (NS) Teo Chee Hean  
Minister of Education and 2nd Minister for Defence (Apr 1997 – Aug 2003)  
at the Launch of the First Masterplan for ICT in Education  
Opening New Frontier In Education With Information Technology  
Monday 28 April 97 at Suntec City*

**Source: *The ICT Connection* [<http://ictconnection.edumall.sg>]**

# ICT curriculum in United Kingdom

Pupils should be given opportunities to support their work by being taught to:

- find things out from a variety of sources, selecting and synthesising the information to meet their needs and developing an ability to question its accuracy, bias and plausibility;
- develop their ideas using ICT tools to amend and refine their work and enhance its quality and accuracy;
- exchange and share information, both directly and through electronic media;
- review, modify and evaluate their work, reflecting critically on its quality, as it progresses.

# Conclusion

As time goes by, technological advancement has a great impact on our life. Education nowadays become cheaper, faster and more paperless-based. It's up to individual to take it or to leave it...