



A Cautious Approach of Implementing e-Learning: The Case of Brunei Darussalam

Dr Yong Chee Tuan

UBD, Brunei Darussalam

Lo Shuk Ngo

UBD, Brunei Darussalam

Hj Abdul Ghani Bin Hj Omar

MOE, Brunei Darussalam

Hj Abdul Rahim Bin Derus

MOE, Brunei Darussalam



❖ **INTRODUCTION**

❖ **PLANNING TO ADOPT e-LEARNING**

❖ **INSTALLING AND IMPLEMENTING E-LEARNING**

❖ **WAY FORWARD**





INTRODUCTION

Transforming Brunei Darussalam to a more knowledgeable, thoughtful, multi-skilled, competitive and smart nation

in accordance with the teachings of Ahli Sunnah Waljamaah

INTRODUCTION

Myths of e-Learning

⌚ *‘technology’ has come to supersede all the intents and purposes of ‘books’*

➤ The emotional components can hardly be captured nor replicated in an electronic medium.

✓ True, both digital content & interactive displays are becoming popular

INTRODUCTION

Myths of e-Learning

- ⌚ *knowledge can be transmitted, communicated and managed through the use of ‘appropriate technology’*
 - ‘e-learning’ cannot replace a classroom-style of learning environment.
- ✓ Yes, MOE seeks to develop a blended learning environment leveraging on technologies to enhance teaching, learning and administration

INTRODUCTION

Myths of e-Learning

- ⌚ *learning capability is perceived as capacity to disseminate and access to the digitised materials*
 - The main focus was not on learning requirement, but rather on delivery efficiency
 - ✓ MOE is very conscious about the pedagogical and psychological aspects of learning; it seeks to focus on developing student potential holistically.

INTRODUCTION

Myths of e-Learning

- ⌚ *on-line learning with content accessed by clients' Internet browser and based on an established standard*
 - there is yet to agree upon a universally accepted standard on e-learning content and media format.
 - ✓ Nevertheless, MOE will adhere to internationally established standards used in reputable e-learning platforms eg. AICC Scorm 1.2

PLANNING TO ADOPT e-LEARNING

Planning To Adopt e-Learning

 *a system that can be easily introduced given the presence of hardware infrastructure.*

- Basic Technological Infrastructure and Policy Adjustment are needed
- A good system must be sensitive to appreciate the contribution of experienced teachers.
- ✓ The five Pillar Programs of E-Education focus on network infrastructure, information systems, applications, content, and training.

Planning To Adopt e-Learning

 *learning capability can be measured by its capacity to disseminate and access to the digitised materials.*


- Changes in schools require more careful planning
- The "How" and "When" to introduce new items are as important as "What to change?"
- ✓ MOE is embarking on "Thoughtful School system" that encompasses intellectual, emotional and spiritual development

Planning To Adopt e-Learning

⌚ *e-learning system can be developed using an existing network infrastructure.*

- Sufficient PC/Student ration to instil policies
- Internet bandwidth should be adequate
- Expanded network infrastructure & servers
- ✓ A substantive amount of investment will go to put in a new network infrastructure, Internet connection to schools, and computers

Planning To Adopt e-Learning

 *That most higher institution lecturers can quickly learn to use any e-learning system,*

- be properly trained and guided
 - Who & how much training required
 - Deployment Roadmap
- ✓ The e-learning Pillar Program covers content development, establishing IDCs, use of authoring tools in addition to LMS.

Planning To Adopt e-Learning

⌚ *That e-learning cannot be evaluated and justified with regard to ROI and any performance indicator*

➤ framework of performance measurement

➤ key performance indicators

➤ evaluation systems

✓ MOE requires the vendors to provide performance measurement systems and jointly monitor the progress of implementing e-education

Planning To Adopt e-Learning

- ⌚ *as a system that can be easily introduced given the presence of hardware infrastructure.*
- ⌚ *learning capability can be measured by its capacity to disseminate and access to the digitised materials.*
- ⌚ *that e-learning system can be developed using an existing network infrastructure.*
- ⌚ *That most higher institution lecturers can quickly learn to use any e-learning system.*
- ⌚ *That e-learning cannot be evaluated and justified with regard to ROI and any performance indicator.*
- ✓ The forthcoming e-education projects tenders call for strong strategic analysis, policy review, change management, training & support



INSTALLING AND IMPLEMENTING E-LEARNING

All the E-Education Projects have been endorsed by the Government to Proceed with Implementation as soon as possible. MOE is calling for "Open Tendering" on all the projects

INSTALLING AND IMPLEMENTING E-LEARNING

- ⌚ *No risk in implementing e-learning*
 - ⌚ *Take up is rather spontaneous once installation is successful.*
 - ⌚ *Keep the portal simple and remove those bells and whistles.*
- ✓ **MOE has spent two years preparing and planning for the implementation of e-education, and is aware of the possible hiccups**

WAY FORWARD

WAY FORWARD

- No Expectation of Miraculous Breakthrough
- School Environment becomes more learner centric and engaged with wider stakeholders
- Strengthen Collaborations, sharing of knowledge
- technology and business due diligence checklists
- Content, pedagogical and psychological learning with user friendly interfaces and interactions with complex technological tools
- All Projects will be issued for "open tender" before end of January 2005

Thank You



We look forward to seeing you in Brunei Darussalam