MOBILE LEARNING IN MALAYSIA

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INTRODUCTION

Nowadays, mobile and wireless technologies are the fastest growing areas of technology. It offers an opportunity for learners to transcend the knowledge through accessing alternative source of information. Pocket size minicomputer; can be carried around easily; increases the pace and scale of attempts to innovate learning and teaching process. Through innovative technologies, one can develop learning applications, which will lead to a new learning model that offers people the opportunity to learn at anytime and anyway. A new era of mobility in learning can be achieved nowadays by using a mobile device, such as cell phones, tablet computers and smartphones.

Research on mobile learning has expanded significantly and these developments encourage educators and researchers to develop educational applications for mobile devices to support any teaching and learning, (Kukulska-Hulme & Traxler, 2007). However, a few aspect to consider before developing any mobile learning is to know the market demand, local environment support, user readiness, education setting, security, appropriate learning strategies, and many more. Therefore, this work aims to provide a current analysis on market trend of mobile operating system and the mobile technologies acceptance and readiness among students and
educators. Therefore, a research on mobile learning in Malaysia context should be explored.

This paper has had five sections organized as follows. Section 1, Introduction, in section 2, mobile learning definition. Section 3, explore on the mobile operating system market (worldwide and Malaysia). Section 4 is an overview of mobile learning in Malaysia with a further look on government policy and selected research of technology acceptance and readiness and Section 5 is a conclusion.

MOBILE LEARNING

Mobile Learning has become more important in 21st century (Hwang & Tsai, 2011; Wu et al., 2012). Previous researcher has been conducting studies on the use of mobile technologies in education, where these technology-supported learning approaches recognized as Mobile Learning by researchers (Hwang & Tsai, 2011). Different researcher and organization give the different definition of mobile learning. A commonly accepted definition of mobile learning (M-learning) is using mobile technologies to facilitate and promote learning anywhere and at any time’ (Hwang & Tsai, 2011).

M-learning is a powerful approach to enhance learning experiences and engage learners by different learning situation. These few definitions share the same idea on how it applied in learning activities either classroom setting or any field. It becomes the current trend in future learning.

MOBILE OPERATING SYSTEM MARKET

There are boost number of mobile devices, which create intense competition among operating system developers. Companies such Apple, Microsoft keep promoting in order to remain sustain and capture the majority of market share. The
developer needs to determine the target Operating System (OS) platform for mobile learning. The market share visual presentation can provide the overview of the current trend of mobile operating system (m-OS). Figure 1 displays top eight m-OSs' worldwide market share from year 2011 to 2014. The results show that Android and iOS clearly lead the table. Android conquer more than 40% of market share follow by iOS with 24%, and remaining SymbianOS, Samsung, Blackberry OS, Windows Phone and others. The graphic line display trend of the market is constantly changing and evolving throughout the year.

![Figure 1 Mobile Operating System Worldwide from 2011 to 2014](source:StatCounter Global Stats)

Figure 2 presents the top operating system in Malaysia from year 2011 to 2014. The statistics show that Android leads the way, monopolized more than 60% of market share in Malaysia followed by its rivals iOS, Symbian OS, Sony Ericson, Series 40, Blackberry and others. Nevertheless, the evolving of technologies with new
features give chance for the m-OSs' in low rated position to climb the top. Based from the previous figures, the most promising mobile OSs in Malaysia are Android follow by iOS. Both two m-OSs' to consider for any development of mobile learning in Malaysia.

Figure 2 Mobile Operating System in Malaysia from 2011 to 2014
(source :StatCounter Global Stats)

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OVERVIEW OF GOVERNMENT EFFORT

Ministry of Education (Malaysia) translates the future direction of government effort and aspirations to become competitive nation by documented National Higher Education Strategic Plan (PSPTN) 2007-2020. Ministry of Education (MOE) has developed 21 Critical Agenda Projects (CAPs) to monitor
progress PSPTN stages. Each of these CAPs has three main items (strategic objective, indicator, target) to be achieved through various planned activities. Mobile learning has been spotted as one of CAPs and key Result Area (KRA) of MoE. In the context of developing country like Malaysia, using portable technologies as learning enhance technologies often remain unrealized.

Malaysia Education Blueprint 2013-2025 is a new document by MOE on context of raising international education standards. This Blueprint written 11 strategic and operational shift of a vision of the government's aspiration of better preparing education system with consider student both needs and deserves. "Leverage ICT to scale up quality across Malaysia" in Shift 7, positively encourage the mobile learning technologies to grow. Therefore, a brief discussion of some selected research studies on technologies acceptance and readiness Mobile Learning in Malaysia is relevant here.

TECHNOLOGIES ACCEPTANCE AND READINESS

Article searching was conducted from computerized bibliographic databases Scopus and ISI Web of Knowledge. There are six studies met the selection criteria, acceptance and readiness Mobile Learning in Malaysia context. The results of the analysis are simplified and presented. More syntheses and organized item-based information (including research focus, participant information, methodology, research outcomes) are provided in Figure 3.
Figure 3  Analysis of selected studies on technologies acceptance and readiness Mobile Learning in Malaysia

Two studies investigate on educator acceptance and readiness of mobile technologies (Ismail, I. et al., 2013; Hamat, A., Embi, M.A., Hassan, H. A. 2012), while four others research focusing on student readiness of Mobile Learning (Krish, P., et al., 2013; Rahmat, R. et al., 2011; Peng, C. L., et al., 2010; Poon, W. C. & Koo, A. C., 2010 ). All of the studies were conducted using questionnaire survey and surprisingly gave the positive outcomes.

The findings support some insights to teachers and students so that they can employ suitable approaches and integrate mobile technologies in teaching and learning. In addition, the findings also support the implementation of mobile learning in Malaysia.
CONCLUSION

Based on the availability of mobile technology globally, educators have had the opportunity to allow individuals from around the world to access educational resources to enable education for all. Facilitated by many initiatives, making educational resources available as open educational resources. Thus, it provides access to learning more affordable for anyone who wants to learn. The highest demand on mobile technology in the worldwide market with the support by government gives opportunities for more and more mobile learning development. Readiness of learners and educators to facilitate the transformation of education using mobile technology is aligned with the needs of learners in the 21st century through the concept of New Academia.

REFERENCES

Ministry of Education, Malaysia (2013). Executive Summary
Workstation-based learning even for employees on business trips? Offer your employees even more individual freedom when it comes to advanced training with mobile learning devices. We combine tried and tested learning technology with mobile hardware. Our apps for tablet PC’s, like iPad, smartphones or other devices, directly access individualized course materials. Once the learner is online, they can download the next lessons on their tablet and work offline. The next time they login, the learning platform and the tablet are automatically synchronized. By the way, we also offer the right My Mobile University, Petaling Jaya, Malaysia. 1,366 likes · 20 talking about this · 53 were here. My Mobile University is a mobile online learning... Impacting lives globally Introducing MyMobileUniversity a world class one stop learning portal. Our objective is to provide a practical option for productivity improvement, particularly with training people in new skills sets and knowledge, plus to enable them to up-skill, re-skill or multi-skill at their own pace. Violent solar storms helped foster life on Earth, NASA says Evidence of violent solar storms from the sun plummeting towards Earth 4 billion years ago have shed new light on the origins of life, researchers from NASA says.