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Headline: Asia's mobile learning tsunami

Asia's mobile learning tsunami

Regional educators and policymakers must respond strategically to the revolutionary changes the phenomenon entails

S THE number of mobile device users owning a smartphone is rapidly increasing across Asia, more earners are making use of their device (cellphones, MP3 players, laptops and tablets) in and outside classrooms to source for new knowledge - for example, by down-loading YouTube videos to better appreciate abstract concepts taught in class (by instructors who may or may not appreciate their students' "subversive" behaviour).

New trends such as ubiquitous (omnipresent) computing and the has-sle-free availability of wireless, mobile and networked technologies in combination with smart search engines point to revolutionary changes in business and society to which both Asian educators and policymakers

need to respond strategically. The term "mobile learning" refers to the use of ubiquitous handheld hardware, wireless networking and mobile telephony to facilitate, sup port, enhance and extend the reach of teaching and learning. Both the mobility of the learner and the context gen erated by a learner or learners with the help of mobile devices are important because communications in social spaces and/or reflections "on the move" (with the help of others or in interaction with multimedia resources) can create new "food for thought".

in turn often give rise to valuable new insights, enabling learning processes in solitude, with an instructor through conversations with one's peers or within a large online commu-nity. To support lifelong learning, mobile technologies must be portable (so that users can learn wherever the are), unobtrusive (without the technol-

There are numerous good practice

nological leapfrogging potential and

nese language via a multi-faceted in-MAMA (Mobile Alliance for Maternal Action), which uses short text messages (SMS) to enable mothers to expand their knowledge about pregnancy and childhight and the MNN of the content and childbirth; and the MIND (Mobile Distance Education) project, a joint inthe Health Sciences University of Mongolia in Ulaanbaatar to develop SMS students to deliver instant feedback to learning packs for delivering non-for-mal distance learning to different social groups. These suggest that mobile learning can support knowledgedeployed wisely.

Asia with its internal knowledge gaps, both leaders and common educators have first to accept the fact that mobile learning is indeed revolutionis-



ogy obtruding on the particular learn- For lots more than just chatting: Asean and other Asian nations which are latecomers in the knowledge race and mobile learning must bear in mind the need to align educational strategies ing situation), needs-based, and easy with national development goals based on good knowledge governance through a supportive national information and communication.policy. and expanding broad

examples such as: iHUB in Kenya, its ability to empower special demomotes software literacy: graphic segments such as disaffected learners who face difficulties in succeeding in the education system.

learning innovations based on the pollearn anywhere". Examples include itiative of the Philippines-based Mo-lave Development Foundation and (SMU) Twitter-enabled, interactive Singapore Management University's band connectivity.

(SMU) Twitter-enabled, interactive Research evidence suggests that tems. classmates and lecturer: the Centre for Educational Research and Application (Cera) established by a local primary school; the National Institute of based development processes if it is Education's (NIE) effort to develop useful pedagogical methods for hand-To make this work in developing held devices; and the MyCLOUD (My Chinese Language ubiquitOUs learning Days) project.

This last one is a collaboration between Microsoft Singapore and severing regional educational landscapes al educational institutions to enhance due to its continuous character, tech- the teaching and learning of the Chi- poor and remote areas.

teractive platform.
The Singapore case contains an imortant lesson for latecomers in the knowledge race: the need to align edu-cational strategies with national develcational strategies with national dever-opment goals based on good know-ledge governance through a support-ing pational information and commu-Technology Initiative for Non-Formal icy guideline to "enable students to ive national information and commu-

in-class feedback loop which allows mobile learning engages learners and that it can play an important catalysing role in the process of economic deing, education for specific target groups such as young girls and STEM (science, technology, engineering and mathematics) in general.

Philippines Open University offers regular formal SMS-based mobile courses in English, mathematics and

proaches can help to motivate students' interest in STEM subjects and to increase their proficiency, more bandwidth. needs to be done at policy level to im-

Other issues which need to be tackled in order to fully leverage on mobile learning include insufficient 2015 connectivity vision. velopment with a strategic focus on English proficiency, vocational trainers, shortage of competent support staff and lack of funds for the development of mobile learning solutions.

Essential ingredients for an effective governance system aimed at leveraging on mobile learning approaches for development at national level in-clude senior political sponsorship at the sciences, providing new develop- the highest levels; broad national en- bile learning under the Leonardo Da ment opportunities for rural youth in gagement involving government, in- Vinci Programme. Germany's Feder dustry, academia and civil society; al Institute for Vocational Education

While mobile STEM learning ap- continuous education and talent de- & Training (BIBB) continues to convelopment; as well as telecommunica- duct applied research projects to doctions affordability and maximum ument and develop useful (blended)

While there is evidence that moplement rigorous K-12 mathematics bile data connectivity creates significant knowledge and other benefits. many Asean countries have yet to acknowledge mobile learning opportunities for development (ML4D) in for development and can be greatly of national post-secondary STEM sys- their strategy documents and to implement concrete strategic mobile learning measures through handheld devices in order to realise Asean's

The European Union experience in mobile learning offers useful insights in this respect, which needs to be analysed to ascertain its transferability to Asia such as institutionalised exchange (mobility) programmes for students and faculty or the set-up and systematic funding of special European research interest groups on m

mobile learning systems in support of vocational qualification processes within the retail or electrical trades.

The "smart" competency develop ment of skilled craftsmen is crucial enhanced through (blended) mobile learning suites and customised applications. While there is a bit of hype about mobile learning (for example, coaching by consulting firms), research suggests that it is indeed a new mega trend which will continue to change the nature of learning and learning delivery in Asia.

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