The global mobile learning story so far

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As part of the project, each school was provided with a laptop computer and the project teachers were given a powerful – at the t me - pocket PC (206 MHz processor) and digital camera. DEEP professional development act vit es were loaded onto the pocket PC for the teacher to access. These resources included illustrated e-books, case studies and exemplar lessons.



Using handheld computers

Photo credits: Carmen Strigel

Using a handheld computer was a new experience for all the teachers and the respondents to a quest onnaire reported that they used the device on a regular basis for use in the classroom and at home. This was confirmed by observations, as the teachers typically used the devices for

- a) lesson preparat on including photographs to show the students,
- b) writing and recording appointments
- c) note taking during lessons;
- d) making calnxpns uring lg g r ;

project for students in the UK. The *Learning2Go*⁵ implementat on that began in 2003 moved to the use of mobile Internet enabled smartphones in the Mobile Learning Network (MoLeNET) init at ve of 2007. MoLeNET⁶, working in the UK TVET sector, is the largest mobile learning init at ve to date. MoLeNET was a three-year project from 2007-2010. Approximately 10 000 learners were involved in the project in 2007-2008 and this number rose to 20 000 in 2008-2009. The findings of this implementation show that using mobile phones for learning facilitated students' retent on and lower drop-out rates.

The English as a Second Language (ESL) project⁷ in 2010 was implemented at George Brown College Canada. Students pract ced language skills outside the classroom walls using mobile devices. Web-based mobile tasks, accessible through student-owned mobiles, were developed. Students used their mobile devices to mediate their communicat on and access supports for the mobile-assisted language learning act vit es. The cross-plat orm mobile learning solut on proved to be ef ect ve in support ng the development of ESL skills amongst immigrant and foreign students.

Around this same t me, two universites in Moscow provided mobile devices to the university students. They gave students Android tablets as they enrolled at the university. These tablets were used to provide access to training materials, tests, and for connecting with peers and staf. This mobile learning init at ve has been viewed as a step towards open education in Russia, of ering learning opportunities that are flexible to the needs of the learner.

Following the positive results of the earlier) -- h project, other mobile learning init at ves have

been implemented in South Africa during 2007-2010. Two large projects include the Dr. Math and Nokia MoMaths⁸. Dr. Math is an online math tutoring service. Free live math tutors are available to students via feature phones with GPRS connect vity. The low connect vity costs are at ract ve to users and this service has been used by 32 000 middle and secondary school students. The Nokia MoMaths group used a proprietary mobile instant messaging service (MxIT) on feature phones to provide access to over 10 000 math exercises. This project began in 2008 with the focus on mathemat cs students in grade 10. This program was of voluntary use and 3 958 students visited the service with 2 136 act ve users. The findings show that from the grade 9 baseline, students who regularly used the service scored 7 per cent bet er on average than peers who did not use the service regularly. The Nokia MoMaths program grew to include in 2011 students in Finland.

A research team in the Ukraine began an init at ve in late 2009 to educate students about modern means of communicat on. A mobile operator worked in collaborat on with the Ministries of Education, Finance, and Youth and Sports for this init at ve and the lessons have reached over 4000 students. North America also recognized the need to focus on the efect ve use of technology. The Internat onal Society for Technology in Educat on (ISTE) developed a set of teacher technology standards (ISTE Standards; formally known as the NETS) to provide a set of standards of good pract ce9. North America has also extended the use of mobile devices in learning with external funding of the Federal Communications Commission O ¹⁰ programme in 2010. This init at ve aims primarily to increase student access to educat onal content and to

enable communicat ons of teachers and students through the use of online tools for educat onal access 24 hours a day, seven days a week.

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Since 2011 there has been a rise in mobile learning init at ves init ated by the primary stakeholders such as district leaders and educators. There has been a shif from mobile devices being banned in schools to the same devices being encouraged by many educat onal leaders. For example, the district leaders at Williamson School district in Tennessee saw the potent al for mobile devices in the teaching and learning of their students and started a Bring Your Own Device (BYOD) init at ve in 2011. This init at ve was district wide by 2012 in grades 3-12 (8–18 years old) involving approximately 27

- ¹ Text2teach: www.text2teach.org.ph/?page_id=2
- ² www.wageningenur.nl/en/Publicat on-de