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New Technologies & Education From bridging the gap to transformative change

Tania Rajadel

June 7, 2016

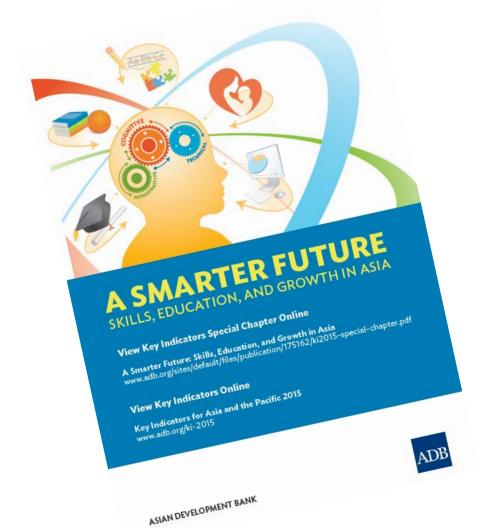


New technologies hold great potential

- Broadening access to education
 E.g. distance learning
- Expanding resources for teaching & learning
 E.g. open online resources, repositories
- Ushering in new pedagogical approaches
 E.g. blended learning
- Changing the way education institutions are run E.g. new tools for management and governance

Yet...

Evidence of new technologies' impact on learning outcomes is mixed





On average, in the past 10 years there has been no appreciable improvement in student achievement in reading, mathematics or science in the countries that have invested heavily in information and communication technologies for education.



In Australia, New Zealand and the United Kingdom, are 15-year-old has individual access to a computer at school.



In Germany, Italy and Japan, there is only one school computer available for every four 15-year-old students.





which is among the top 3 performers in both the PISA computer-based assessment of mathematics and the PISA digital reading test, only 42% of students reported using computers at school.

While programs such as One Laptop per Child failed....



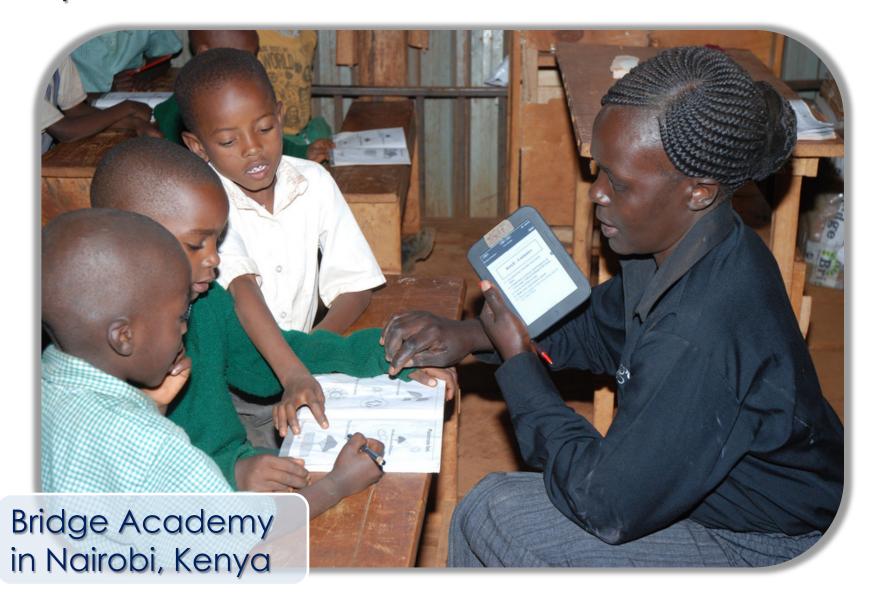
Central Visayan Institute Foundation-Dynamic Learning Program



... others achieving tremendous results without relying on new technologies

The use of new technologies in education spans a wide range of realities

Scripted lessons



Videoed lectures



Digital resources for teaching and learning



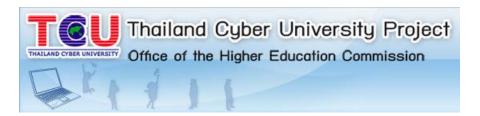




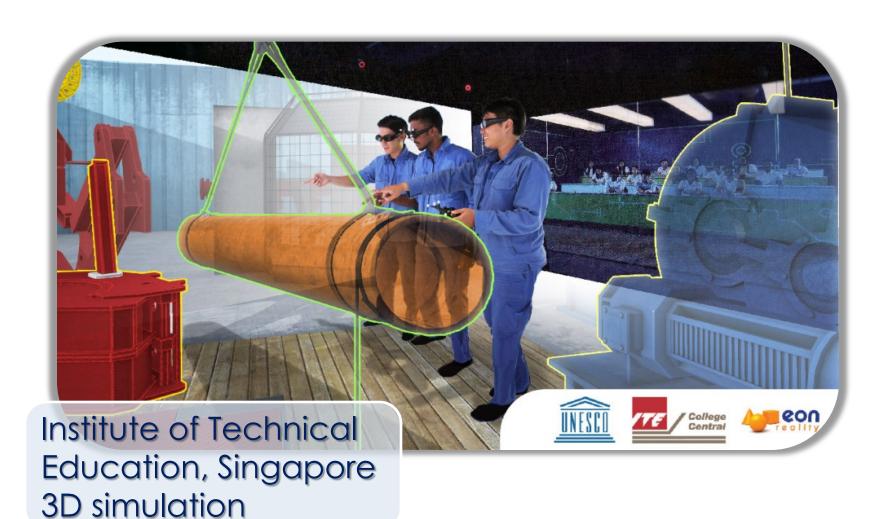








Virtual reality



Adaptive learning



New software for customized learning pathways

Virtual universities



New technologies as a means to bridge gaps



Scripted lessons to address weak teaching capacity











Videoed lectures to address the lack of specialized teachers







Digital resources to address limited availability of teaching material



















New technologies as a catalyst for improvement...



... still burgeoning though Impact evaluation are needed

New technologies are a tool

Moving forward, a few guiding principles



- Stepping up successful interventions
 - Scaling up vs.
 - Upgrading
- Adopting the right technological solution
 - Redefining "best"
 - Engaging end users (including teachers!)
- Building evidence
 - Setting up strong monitoring and evaluation systems