## Evidence based approach of ICT use in higher education

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PART 1

Evidence-based

Why is there some much attention for an evidence-based approach in educational research ?











It's complicated ...

It depends ...















Evidence in a context of educational innovation

Knowledge pyramid (Kennisnet)



"effect" and "evidence" difficult to measure in educational research









A concrete illustration



Which method leads to better learning results?













Conclusion part 1:

Recently attention for an evidence-based approach in education, answering the question on 'what works' is considered as a strategy to bridge the gap between educational research and practice

PART 2

Technology in higher education

Technology is multidimensional

Typology of ICT or technology use

rlinde, R., & van Braak, J. (Ed.). (2010). The e-capacity of primary schools: Development of a conceptual fra and scale construction from a school improvement perspective. *Computers & Education*, 55, 541-553.



Collaborative technology use







Information tool



And what about 'social' media?



Conclusion part 2:

Speaking about ICT in higher education means thinking about a diversity of applications and didactical use

PART 3

Evidence-based ICT use in education

Review of Educational Research March 2011, Vol. 81, No. 1, pp. 4–28 DOI: 10.3102/0034654310393361 © 2011 AERA. http://rer.aera.net

What Forty Years of Research Says About the Impact of Technology on Learning: A Second-Order Meta-Analysis and Validation Study

> Rana M. Tamim Hamdan Bin Mohammed e-University

Robert M. Bernard, Eugene Borokhovski, Philip C. Abrami, and Richard F. Schmid Concordia University







... revealed a significant positive small to moderate effect size favoring the utilization of technology in the experimental condition over more traditional instruction (i.e., technology free) in the control group...











Conclusion part 3

Answering the question of what works with ICT in higher education, means looking at influencing conditions

To conclude

What works with ICT in our faculties and universities and what doesn't works?

It's complicated ...

It depends ...



More information? Collaboration? Contact?

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