Educational Technology in Schools and Educational Institutions Peculiarities and User Perceptions

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Introduction

As part of global megatrends digitalization and automation, schools and educational institutions are enhancing teaching and learning processes with information and communication technologies (ICT). Research evidence is desirable of what are the outcomes of introducing new technology for teaching and learning. Moreover, as educational markets expand, from what premises they work in public/private area, and how new technology is being implemented?

In this PhD article thesis the focus is to study user experiences, characteristics or *peculiarities* of educational technology business, and diffusion of educational technology innovations.
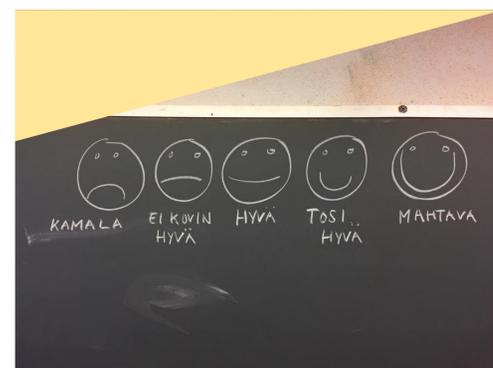
RQ1: *Based on findings from user studies of educational technology, what implications are found regarding the user experience of these technologies?*

RQ2: *What peculiarities and characteristics are found in educational technology business from 1) supplier and 2) customer perspectives?*

RQ3: *How and why educational technology innovations diffuse (or do not)?*

Methodology

- Subjective Metrics with User Experiments SUXES (Turunen et al., 2009)
- System Usability Scale SUS (Brooke, 1996)
- Fun Toolkit (Read, 2008)
- Content Analysis (E.g.Neuendorff, 2002)
- Interview and survey methods

Expected outcomes

- Better understanding of interaction with educational technology, and how end-users perceive educational technology use.
- Evidence of what are barriers or constraints in educational technology markets, and how suppliers and customers interact.
- Information on how technology innovations diffuse among users and educational institutions

Timetable

Publication 1 2017	Publication 2-3 2018	Publication 4-5 2019	Publication 6 2020
Year 1	Year 2	Year 3	Year 4

Publications

Vuorio, J., Okkonen, J., & Viteli, J. 2018. User Expectations and Experiences in Using Location-Based Serious Game in Educational Context. In Lecture Notes on Educational Technology (LNET). Springer. In Press.

Vuorio, J., Okkonen, J., & Viteli, J. 2018. Finnish Upper Secondary Students User Expectations and Experiences Using MALL System. In Proceedings of the 22nd International Academic Mindtrek Conference (pp. 236-243). ACM.

Vuorio, J., Okkonen, J., & Viteli, J. 2017. Enhancing user value of educational technology by three layer assessment. In Proceedings of the 21st International Academic Mindtrek Conference (pp. 220-226). ACM.