

FLPP
FUNDAMENTĀLIE UN
LIETIŠĶIE PĒTĪJUMU
PROJEKTI



LZP Lietišķais pētījums "Transformatīvas digitālās mācīšanās ieviešana pedagogijas zinātnes doktora programmā Latvijā"

(DocTDLL) Izp-2018/2-0180

Implementation of Transformative Digital Learning in Doctoral Program of Pedagogical Science in Latvia (DocTDLL) Izp-2018/2-0180

Research summary in the context of recommendations development for doctoral thesis

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PhD research topic: Development of e-learning process in militarised education institution

Research problem -

The potential of the e-learning in militarized educational institutions is limited without a strategic approach to the organization of the e-learning process, planned and successive improvement and assessment of lecturers' digital competence.

Goal of the research is to define the pedagogical peculiarities of the development of the e-learning process and to develop theoretically substantiated didactic model for the formation of lecturers' digital competence in militarized educational institution

Research findings are based on scientific literature review of researches within pedagogical, ICT and military sphere interrelations

Churchill, 2017; Buckingham, 2007; Czerkawski, 2014; Garrison, 2017; Twigg, 2002; Bessenyei et al., 2008; Clark&Mayer, 2011; Horton 2011; Gregor, 2016; Oblinger, Hawkins 2005; Farkas, Bessenyemária, 2008; Clarke 2008; Vasiljevs et al., 2012; Bessenyei, et al., 2008; u.c.). Daniela, 2019; Žogla, 2019; Kapenieks 2013, 2014; Slaidiņš, 2003; Ulmane-Ozoliņa, 2016; Bonks, 2009; Buckingham, 2007; Judrups et al., 2013; Becker, 2004; Clarke, 2008; Steen, 2008; Allen, 2007; Taylor, 2010; Andersone, 2010; Aberšek, 2010; Krēsliņš, 2012; Nīlsens un Šunks, 2002); Watson, 2007; Wisher, Sabol& Moses, 2002; Šmits un Džareds, 2017; Derry un Lajoie, 1993; Vardi, 2019; Legro, 2002; Hull, 2006; Rožcenkova, 2008; Ciganovs, 2019, Engelbrecht, 2003; Wood, Douglas & Haugen 2002, Spridzāns, 2018; Vaughan, 2011, Ruby, 2006; Koters 2008; Garvin&Roberto, 2005, Vendins 2011; Nikiforovs, 2009; Budhai&Skipwith, 2017; Buckingham, 2007; Brubules& Callister, 2000; -E-studiju potenciāla izmantošana u.c.) Roberts (2004); Schultz&Jungherr, 2010; Walker, 2017Caena et al, 2013; Purēns, 2017; Čižmešija, Diković, Domović et al. 2018; Hargittai&Hinnant, 2008; Eshet-Alkalai, 2004; Nikiforovs 2009; Landzmane, 2012; Ferrari, 2013; Spante et al. 2019; Ilomäki, Kantosalu, & Lakkala, 2011; Vuorikari, 2018; Namsone, 2018; Taddeo et. al. 2016; Redecker&Punie, 2017; Ottestad et. al; 2014 EC, OECD, FRONTEX and other organisations strategic planning documents

Research findings are based on survey of 45 trainers at militarised education institutions in Latvia, Finland, Estonia and Lithuania

**Where do you work * I think my institution is fully using the potential of e-learning
Crosstabulation**

			I think my institution is fully ...	
			Strongly disagree	Disagree
Where do you work	Estonia	Count	2	4
		% within Where do you work	22,2%	44,4%
	Finland	Count	1	1
		% within Where do you work	9,1%	9,1%
	Latvia	Count	2	5
		% within Where do you work	16,7%	41,7%
	Lithuania	Count	0	4
		% within Where do you work	0,0%	30,8%
Total		Count	5	14
		% within Where do you work	11,1%	31,1%

There is a need and motivation to develop digital competence

		To improve e-learning at our institution teachers' e-learning competence must be increased				
		Neutral	Agree	Strongly agree	Total	
Estonia	Count	0	5	4	9	
	% within Where do you work	0,0%	55,6%	44,4%	100,0%	
Finland	Count	1	10	0	11	
	% within Where do you work	9,1%	90,9%	0,0%	100,0%	
Latvia	Count	2	7	3	12	
	% within Where do you work	16,7%	58,3%	25,0%	100,0%	
Lithuania	Count	2	5	6	13	
	% within Where do you work	15,4%	38,5%	46,2%	100,0%	
		Count	5	27	13	45
		% within Where do you work	11,1%	60,0%	28,9%	100,0%

Main conclusions of the research

1. Constant development of digital learning possibilities pushes military organizations to adapt innovations which is complicated process due to military hierarchy and traditions.
2. Military culture evolution is a slow and cumulative process where habits gradually and organically transform.
3. Military personnel has coherent, powerful, and highly restrictive mind-set.
4. Lecturers and administration lack thorough understanding and practical experience in e-learning, pedagogical and ICT meaningful integration.

Recommendations to develop e-learning systems

1. E-learning development strategy must be defined among all militarised education institutions (joint meetings, expert workshops where goals and tangible outcomes are defined, budget and infrastructure development is set).
2. Strategy must include precise and understandable definitions from didactic and ICT perspective.
3. Clear instructions of what is expected from all (teachers, IT specialists) must be legally defined.
4. Strategy implementation must be explained to highest management, communicated, promoted and assessed at all levels.

Recommendations to develop e-learning systems

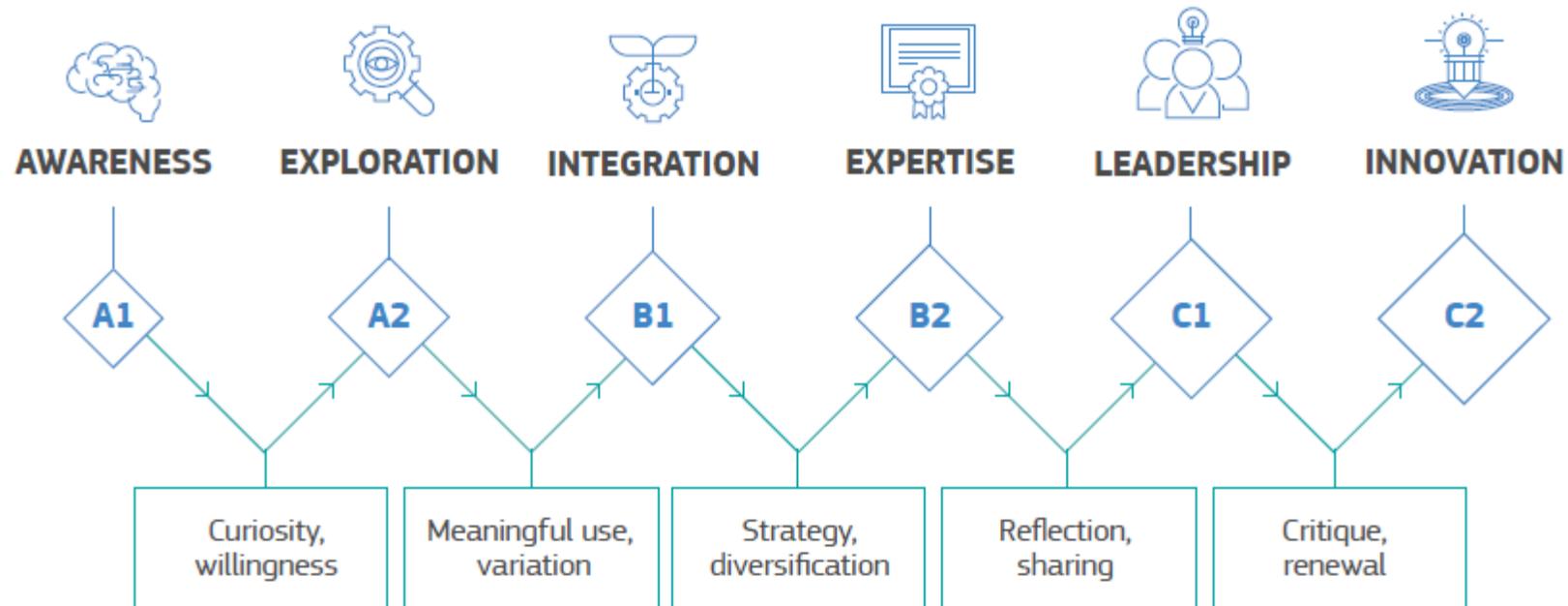
5. Regular teacher professional development must be promoted :

- Participate in local and international activities for teachers and leaders to, update skills, be informed on new developments, explore new techniques or resources and refresh didactic and ICT integration best practices (theory and practice courses, seminars, reading and publishing articles, visits to other organizations, peer observation, ToTs, cascading etc).

Recommendations to develop e-learning systems

6. Assessment of e-learning implementation should be updated to:

- Measure strategy implementation progress
- Measure and guide further teacher digital competence development



- Appropriately analyse and integrate student feedback in further e-learning development

What has already been implemented within research

1. Regulations on e-learning course development implementation and assessment have been worked out
2. Instructions (video tutorials) and practical teacher training sessions have been implemented
3. Awareness building and competence development activities have been implemented at local and international level
4. Teacher e-learning competence assessment framework has been drafted
5. Collaboration projects have been implemented with other countries

Thank you for attention, looking forward to
your suggestions.