



Using a national learning management system in Swiss vocational education



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The educanet² Learning Management System


- Free of charge for Swiss schools since 2004
- Used by 44% of Swiss schools (Barras & Petko, 2007)




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Overview




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Research questions

- How do schools of vocational education in Switzerland use the virtual learning environment educanet²?
- How do schools of vocational education differ compared to schools providing general K-12 education?
- What factors influence how intensely the learning platform is used?

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Learning management systems in VET

Assumptions

- LMS bridging the gap between school days
- LMS bridging the gap between VET-school and companies
- LMS more likely to be used because of LMS-use in (some) companies

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Sample and methods

- 2688 institutions logfiles (full sample)
- 292 administrator questionnaires (prim-sek II, 20% response rate)
- 1380 teachers questionnaires (prim-sek II, 17% response rate)
- 12 case studies from prim-sek II institutions intensively using educanet²

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Funding



- Swiss National Science Foundation
- Milton Ray Hartmann Foundation
- Period: 2008-2009



Results from the logfiles

Logfile analysis over 4 weeks



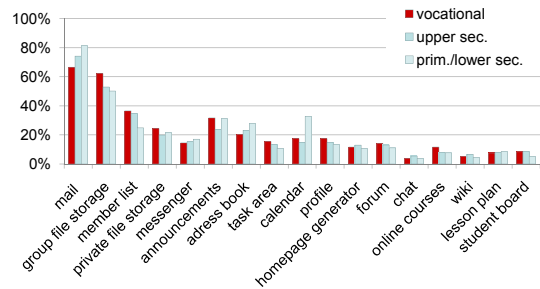
Active users

Vocational	teachers N= 1153	students N= 9879
Upper sec.	teachers N=1701	students N= 13761
Lower sec./prim.	teachers N=15365	students N= 25426

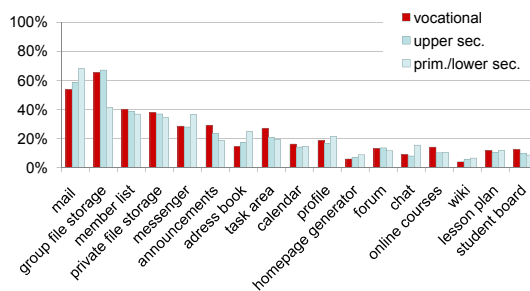
Visits

Vocational	teachers N= 13151	students N= 69405
Upper sec.	teachers N= 25550	students N= 98472
Lower sec./prim.	teachers N= 223984	students N= 153967

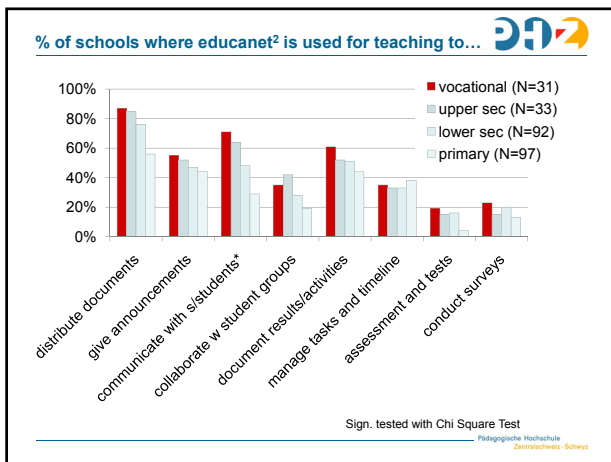
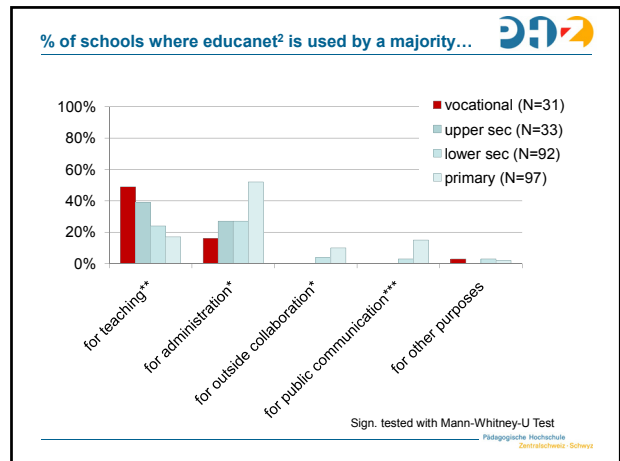
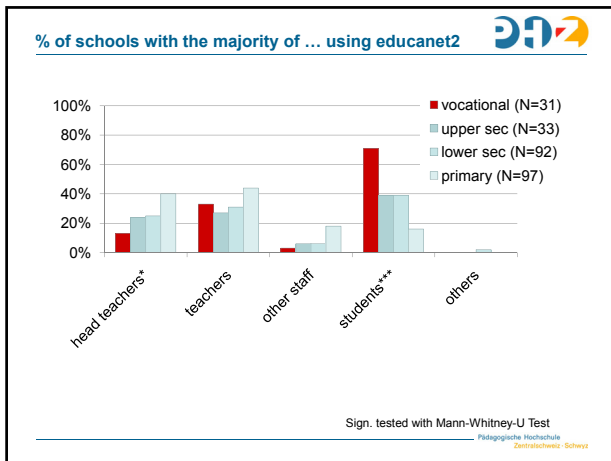
Percentage of active teachers using educanet² for ...



Percentage of active students using educanet² for...



Results from the administrator questionnaires (schools using educanet²: N=292)



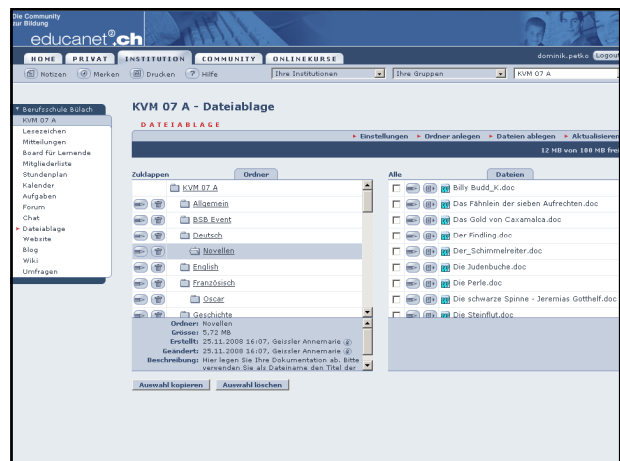
Factors influencing intensive use (K12 / VET)

Factor	per teacher	per student
Obligations	r=.58** / r=.58**	n.s. / r=.52**
Related further education	r=.25** / r=.54**	n.s. / r=.46**
Usability of the platform	r=.23** / n.s.	n.s. / n.s.
Teacher competencies	r=.28** / r=.39*	r=.23** / r=.40*
Teacher motivation	r=.32** / r=.40*	n.s. / n.s.
Change in teaching	r=.27** / n.s.	r=.28** / n.s.
Priority in school policy	r=.49** / r=.54**	r=.22** / r=.46**
Support of head-teacher	r=.48** / r=.69**	r=.18** / r=.52**

Sign. tested with Spearman rank correlation

A case study

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Community für Bildung **educanet.ch**

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Werkstoffkunde T. Zoller

Zahnstangenantrieb

Werkstoffwahl - Inhalt Zahnstangenantrieb

Durch das Drehen an Zahnstange 1 via Vierkant SW14 bewegt sich die Zahnstange 4 mit max. Weg von 900mm.

Wählen Sie den besten passenden Werkstoff für die angegebene Position!

1 Gehäuse

educanet.ch

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KVM 07 A - Chat

dominik.petko@phz.ch - Mozilla Firefox

Chat-Historie

Beginn	Ende
03.09.2007 21:09	03.09.2007 21:44

Chat

Delec: hallo
 pr0 Rapper Adri: you can speed me right round baby right round, like a record baby round round round
 Delec: da bist
 pr0 Rapper Adri: round round round round round round
 pr0 Rapper Adri: nice fresh ghetto chef
 pr0 Rapper Adri: ^^
 Delec: ja voll
 pr0 Rapper Adri: während gschäft chömer da au dine hänge ^^
 Delec: ja voll
 Delec: geht das
 pr0 Rapper Adri: ich gang jetz nochi po game
 pr0 Rapper Adri: ok?
 Delec: in die raum
 pr0 Rapper Adri: aber ich bilb nochi m chat ^^ also tscho bismom

Summary

- VET-institutions use educanet² for teaching
- Mostly file exchange and e-mail
- Many factors influence intensive use
- Case studies: quality of use matters

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Thank You for Your attention

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