

The Need of Lifelong Learning and Digital Citizenship

Holger Horz and Bernd Trocholepczy Moscow, 22.05.2019



The problem: lifelong learning in relation to **digitalisation**







Overview

- Changes of behaviour by digitalisation
- What are important **trends?**
- Challenges and myths in the context of digitalisation
- Philosophical interlude
- Proposals



CHANGE

The wind of change: Death of John Paul II (2005)





The wind of change: Habemus papam - Pope Francis (2013)





How to discover world in a new way GOETHE

STRONGER TOGETHER



Who we are



http://elisabeth-selbert-gemeinschaftsschule.de/index.php/organisation/digitales-lernen/unsere-ipad-klasse



TRENDS





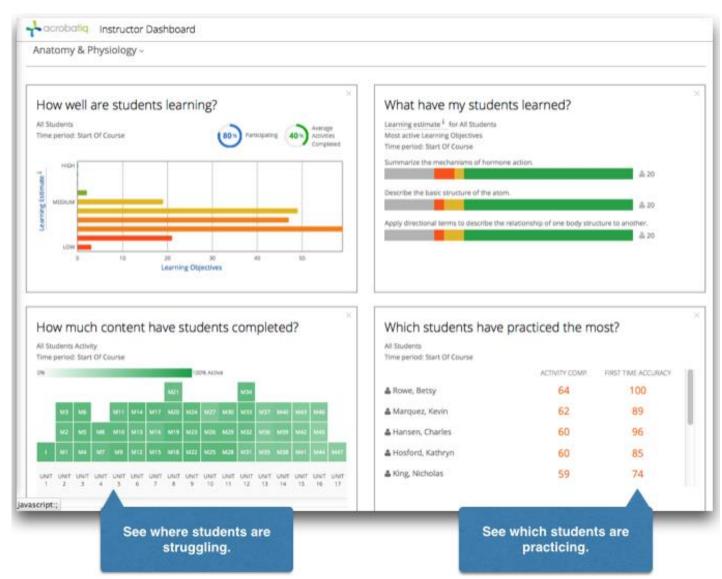
- Outcome oriented
- Blended Learning
- Self-Diagnostic
- Adaptivity

. . .

.

Learning Analytics



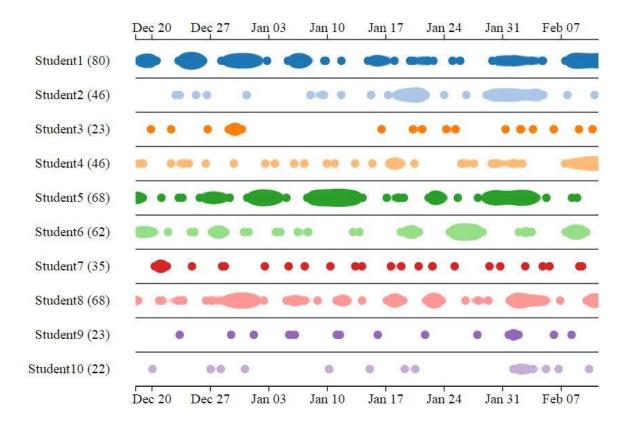


https://thefotosgratis.eu/learner-analytics-dashboard.html



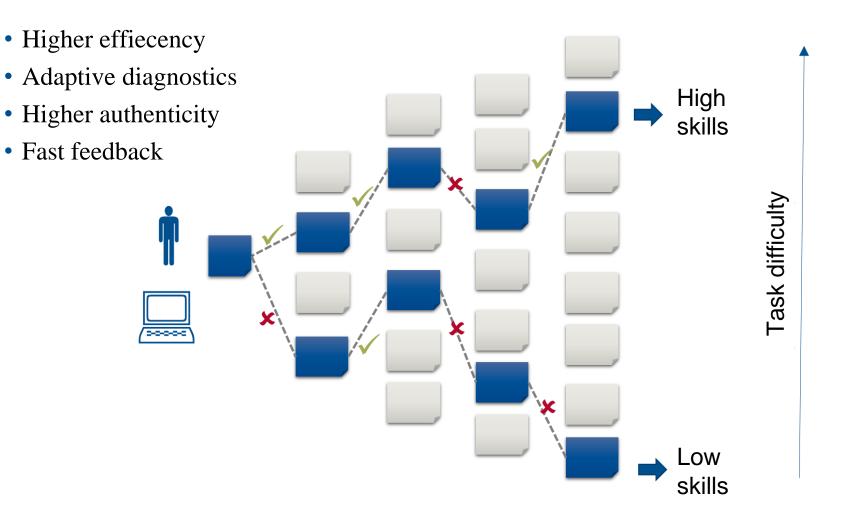
Learning Analytics - individual and adaptive

Student Activity Pulse





Computer-based adaptive Testing



Blended Learning



http://www.24x7learning.com/images/blended-learningmethodolog.jpg



Traditional teaching

instruction

The idea: mutual optimizing via "Blended Learning"



CHALLENGES AND MYTHS

Empirical Check of "digital myths"



- Internet and the reduction of social interaction
- Internet and the reduction of social participation
- Loneliness through internet usage
- Computer games make you fat, stupid, lazy and violent

→ Social commitment even correlates positively with internet use

- → Demonizing Digital Media
- → No long-term consequences detectable

Appel & Schreiner, 2014, 2016



Real risk: Multitasking

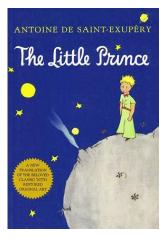
But our working memory can only handle a limited amount of information. ... But that does not just apply to the handling of digital media. If someone cooks at the same time, makes phone calls, admonishes the children and sends out the dog, then cooking is also negatively affected.

(R. Bromme; 2012, CEO of DFG-SPP "Science and the public")



Real Risk : Immersivity

The higher the adaptivity, realism and interactivity of media content the greater the potential for experiencing immersiveness.









INTERLUDE



What is the peculiarity of BIG DATA? A change in the perception of Time

... a more philosophical and thelogical reflection

"φύσις κρύπτεσθαι φιλεῖ." Heraklit, frgm 123

(1) The transformation from analogical to digitital entities offers the persistency of what is stored in the networks: we can't loose or forget anything

(things: IoT, persons: social media networks).

- (2) Being net-habitants we gain "full-presence". We are no longer distracted by making all efforts to remember or waiting for future.
- (3) Just do it now and not later!
- (4) Everything is in stand-by-position.
- (5) We are confronted with the unlimited availability.





What is the peculiarity of BIG DATA?

A change in the perception of Time

Interlude: ... a more philosophical and theological reflection "We now name **that challenging claim**

which gathers man thither to order

the self-revealing as standing-reserve: Enframing." [Ge-stell]

"Maintenant cet appel pro-voquant

qui rassemble l'homme (autour de la tâche) de commettre comme fonds ce qui se dévoile, nous l'appelons — l'Arraisonnement."

Wir nennen jetzt jenen

herausfordernden Anspruch,

der den Menschen dahin versammelt,

das Sichentbergende

als Bestand zu bestellen -

das Ge-stell."

Heidegger, Vorträge und Aufsätze, S. 27

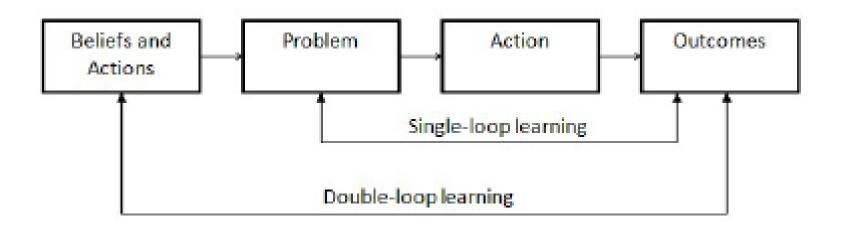




PROPOSAL



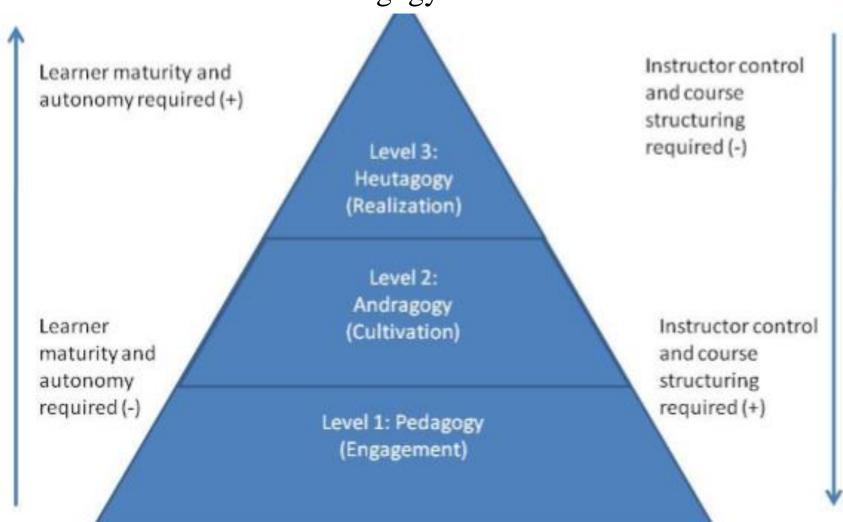
Heutagogy



https://files.eric.ed.gov/fulltext/EJ979639.pdf



Progression from pedagogy to andragogy then to heutagogy



https://files.eric.ed.gov/fulltext/EJ979639.pdf



From pedagogics, androgagics and further education to learning in context of **self-determination**

Learning under " Brick and mortan" conditions		Heutagogy: Net-based Learning	
	Single-loop learning	•	Double-loop learning
	Competency development		Capability development
-	Linear design and learning ap- proach	•	Non-linear design and learning approach
-	Instructor-learner directed		Learner-directed
	Getting students to learn (content)	•	Getting students to understand how they learn (process)

https://files.eric.ed.gov/fulltext/EJ979639.pdf

What let us hope...



The "brain of 20th Century" has been lost forever and in consequence the ways of learning of 20th Century.

We cannot stop digitalisation in addition to "Digital Citizenship" we need

"digital incompetencecompensationscompetence"



(Odo Marquard, 1928-2015)



Thank you for your attention