HANDOUT

DIDAKTIK MOBILES LERNEN MIT IPADS

One Size Fits All



SCHULE KANN MEHR...



DIDAKTIK

21st century skills



fachimmanent



social interactivity learning from experts interactions face-to-face discussions face-to-face discussions push-pull data creativity online conversations social interactivity content currency cultural competencies exchange data connections value-add

data sharing COLLABORATION conversation

TIME

dynamic dialogue communication multimodal literacy skills sharing resources

social **exchanging ideas**social media peer learning

conversational spaces global sharing information team-players

choose own content ownership customisation tailored apps self-directed OWN place, OWN pace convenience context-aware/sensitive own way games instant feedback self-initiated learning

PERSONALISATION

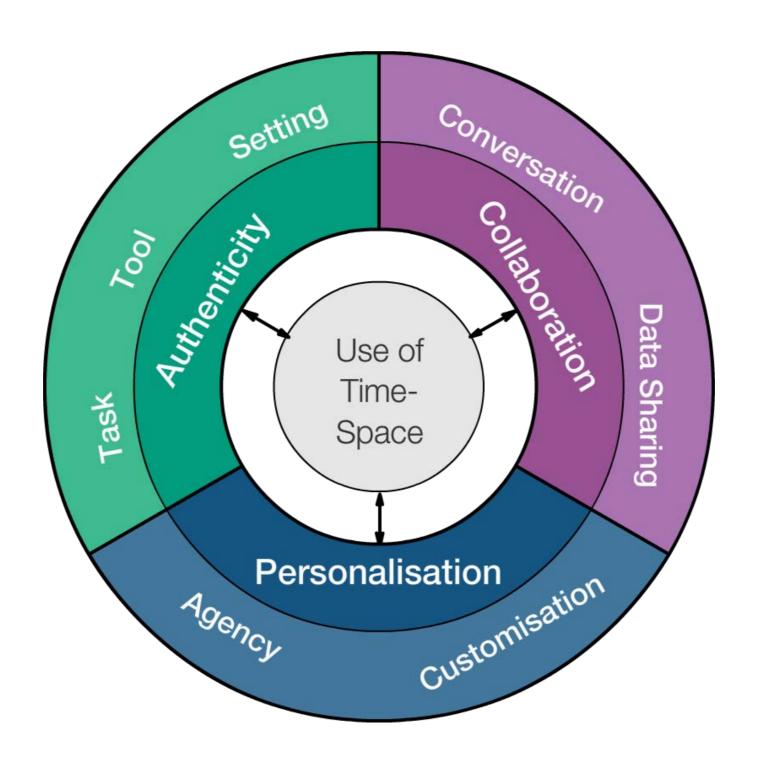
immediate, customised feedback autonomy just-in-time; 'on-the-fly' agency self-regulation choice socio-cultural perspective learner-negotiated wearable devices control self-assess

location-based relevance unexpected
task practice field multi-modal communication
personal meaning participatory learning
emergent tasks 'in-situ' practices setting

AUTHENTICITY genuine

participatory real world relevance context sensitivity
realistic use of tools serendipity real community
contextualisation realistic setting & process situatedness

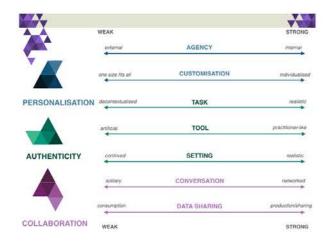
iPAC FRAMEWORK



http://www.mobilelearningtoolkit.com/ipac-framework.html

A Mobile Learning Toolkit for Teacher Educators

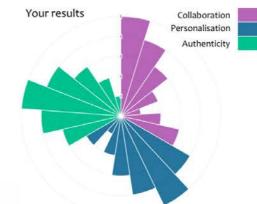




www.mobilelearningtoolkit.com

Teacher and Student Online Survey Tools

survey tool for teachers and trainee teachers & students based on the constructs of the iPAC framework. This enables teacher educators and their trainee students to evaluate any mobile learning activity. The results are displayed in a both chart and polar chart format (see right) enabling practitioners to identify areas of mobile learning they wish to develop further. The instrument generates a short, personalised report outlining strengths and weaknesses and directing the user to a set of bespoke resources (e.g. m-learning video case studies) suggesting routes forward. One of these is illustrated below (see 5)





The iPAC Framework

Based on a theoretical model developed by academics in Australia and the UK (Kearney, Schuck, Burden & Aubusson, 2012), the iPAC framework underpins all aspects of the Mobile Learning Toolkit. It captures in the form of three constructs and seven sub-constructs, the 'signature pedagogies' of mobile technologies. These include Personalisation, Authenticity and Collaboration (see diagram right). Each of the sub-constructs is represented by a set of binaries (see diagram above) describing strong and weak characteristics. These form a repertory grid which is the basis of the survey tool (see 2 above). At the centre of the iPAC framework are the concepts of time and space which capture the malleable contexts within which many m-learning activities occur, removed from the traditional temporal and spatial constraints that have traditionally 'bounded' learning in formal and time specific settings (Traxler, 2007).





2.

QR code 2



The Mobilising and Transforming Teacher Educators' Pedagogies project (www.mttep.eu)

An international Erasmus+ project, funded by the European Commission to ensure the next generation of

authentic and collaborative (see: Kearney, Schuck, Burden & Aubusson, 2012, QR code 2). To achieve this

of the toolkit are illustrated in this poster. A video explaining how to use the toolkit can be accessed through

ambition the project partners have constructed a freely available Mobile Learning Toolkit and an international

mobile learning network for teacher educators (see www.mobillearningtoolkit.com). The SIX individual elements

teachers are capable and confident in using mobile technologies to make learning more personalised,

Exemplar eBooks

Mobile devices enable students and teachers to read and generate their own eBooks in ways which were previously impossible. These technological changes are disruptive and challenging and promise to transform how knowledge and understanding is constructed, validated and shared. Textbooks have traditionally played a central role in defining the identity and purpose of teachers and therefore the Mobile Learning Toolkit has created a set of exemplar iBooks to explain how this epistemological revolution can be harnessed by teacher educators to help turn their trainee teachers into knowledge constructors rather than knowledge consumers (Scardamalia & Bereiter, 1994). These eBooks serve as a model for what might be possible in the Mobile Age and how teacher educators might position themselves to exploit these changes most effectively for their trainee students.

6.

References:

Distributed Learning, 8(2).



QR code 1



A 6 week online course (multi-platform)

This free online course supports teacher educators and teachers involved in training teachers to understand and use mobile technologies effectively in their classroom. It demonstrates how to gain the maximum effect from the Mobile Learning Toolkit, including how you could adapt this for use in your own institution. It will be available for user tester from April 2017. Please contact us if you wish to be involved.



A rubric and database for evaluating pedagogical

Although there are now thousands of educational apps, there is little or no guidance available to teacher educators and teachers to help them select apps for a particular pedagogical purpose. The rubric and associated database of recommended apps uses the iPAC framework to rank apps by their pedagogical value (see above). Rather than focusing on the aesthetic or technical features of an app (which are the focus of other rubrics) our rubric enables users to search for particular pedagogical activities they wish to undertake (e.g. fieldwork) matching apps that have been validated by other teachers as strong in this regard. The database will therefore help teacher educators and their trainee students select apps that have a strong pedagogical potential based on the iPAC framework constructs.



Trainee History Teachers Using iPads in



their mobile devices (iPads) to undertake a fieldwork visit to the

battlefields of the First World War. This is traditionally a 'paper and pe

lustrates how mobile technologies can be used in a genuinely mobil

Introduction

QR code 1.



Focus: Authenticity: Task and Setting





Explain

Mobile Learning Video Case Studies

Exemplar video scenarios have been created to illustrate the three MPF constructs. These video cases have been organised into a matrix according to their curriculum area and the MPF construct (Personalisation; Authenticity and Collaboration) illustrated. The Matrix enables users to view and select mobile learning video case studies in a simple to use interface. See QR code 3 for an example from History discipline area.



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QR code 3



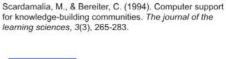




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Kearney, M.D., Schuck, S.R., Burden, K. & Aubusson, P.J.

perspective', ALT-J, Research in learning technology, 20,

Traxler, J. (2007). Defining, Discussing and Evaluating

Mobile Learning: The moving finger writes and having

writ.... The International Review of Research in Open and

2012, 'Viewing mobile learning from a pedagogical





Authors: Professor Kevin Burden (k.j.burden@hull.ac.uk) and Associate Professor Matthew Kearney (matthew.Kearney@uts.edu.au)

Accelerated Learning Cycle



Accelerated Learning Cycle





E-Teach The Teacher

Maximillian Stoller und andere

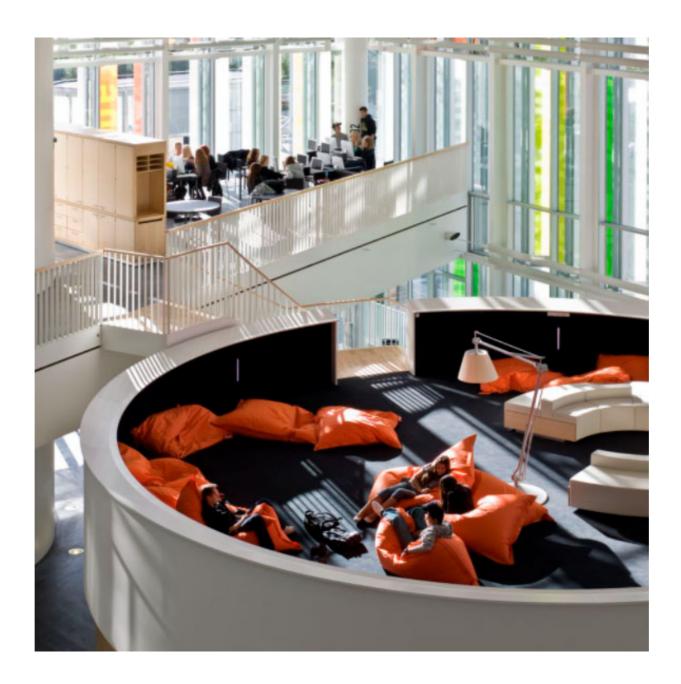
Anzeigen in Apple Books ↗





Mobile learning objectives/aims for the lesson				
Technology used and the stage of the lesson it is used at.	iPac	Notes		
PRE-STUDY	3 Control of the cont			
CONNECT	1 Control of the cont			
ACTIVATE	1 Caralla San Cara			
DEMONSTRATE	1 Control of the cont			
MODELLING				
CONSOLIDATE	1 Control of the cont			
FEEDBACK	The state of the s			

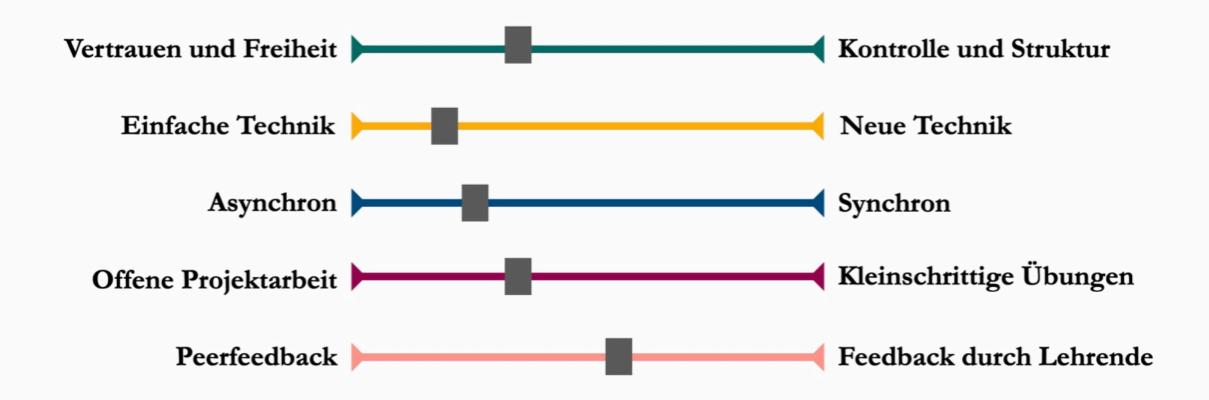
LERNRÄUME DER ZUKUNFT



Ørestad Gymnasium in Dänemark, Foto: Adam Mørk

Didaktische Schieberegler nach Axel Krommer & Kollegen





APP-CURRICULUM KLASSE 8



KLASSE 8

APP	FACH	LEHRER/IN	EINGEFÜHRT
P	Bio		
92	ВК		
	Ch		
2	D		
	E		
	EK		
FLINGA	Fr/Te/AES		
	G		
F 7	М		
E	Mu		
<u></u>	Ph		
((%))	Rel/Eth		
•	WBS		
✓	GK		







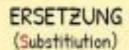
Das SAMR Modell zur Integration von Lerntechnologie

Was machen die da nur im Wasser?





KEIN TECHNOLGIEEINSATZ



Technik ist direkter Ersatz für Arbeitsmittel, ohne funktionale Änderung

ERWEITERUNG

(Augmentation)

Technik ist direkter Ersatz für Arbeitsmittel, mit funktionaler Verbesserung

ÄNDERUNG (Modification)

Technik ermöglicht beachtliche Neugestaltung von Aufgaben

NEUBELEGUNG

(Redefinition)

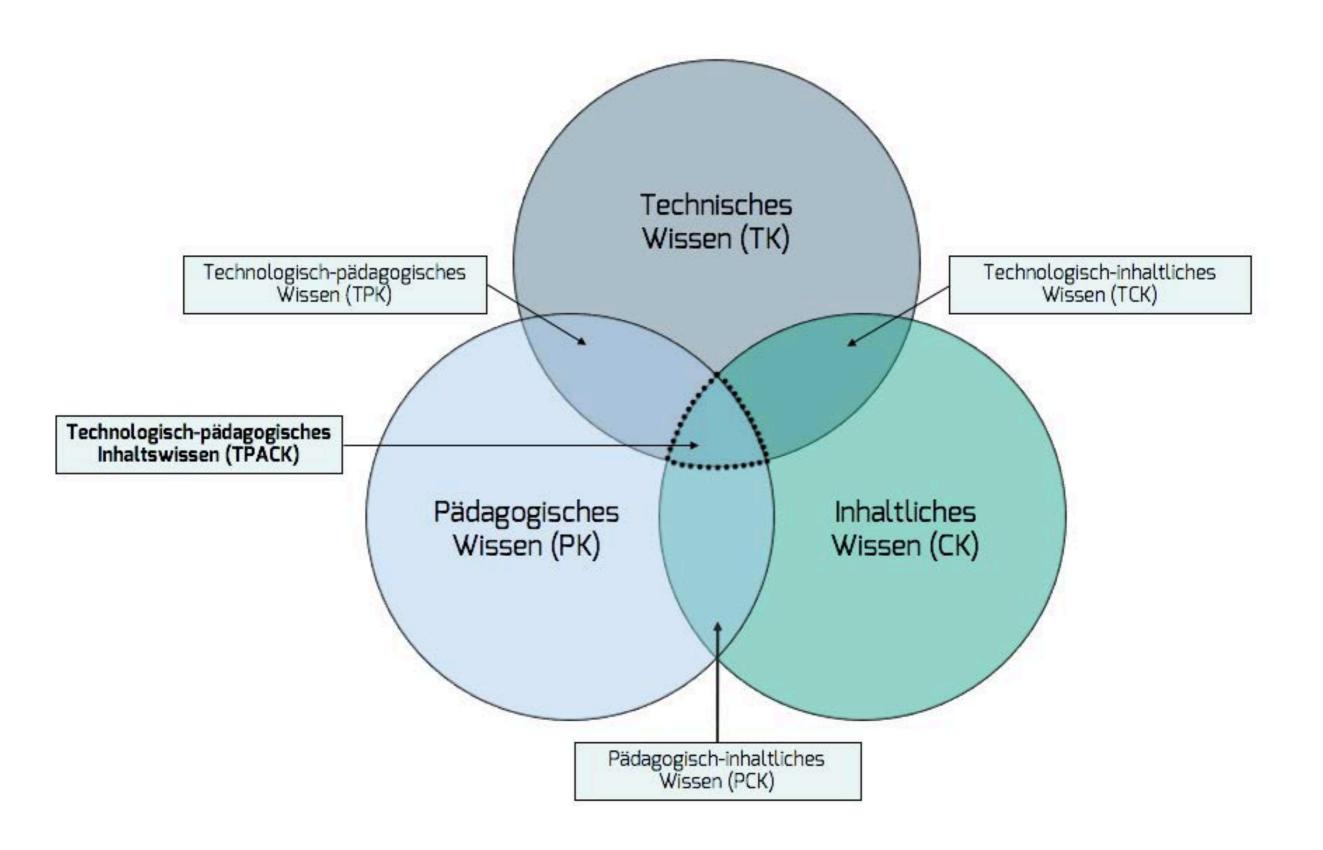
Technik ermöglicht das Erzeugen neuartiger Aufgaben, die zuvor unvorstellbar waren

VERBESSERUNG

(enhancement)

UMGESTALTUNG

(transformation)



Das iPad im Unterricht

PRAXISBEISPIELE AUS GEISTESWISSENSCHAFTLICHEN FÄCHERN

Können leider aufgrund des Datenschutzes der beteiligten Personen nicht dargestellt werden.

