



Theoretical and practical insights from IBH Seamless Learning Lab (@IBHLab_Seamless)

Keynote @ Open Universiteit Seamless Learning Conference, Maastricht, 8.6.2018

Dr. Christian Rapp, Zurich University of Applied Sciences, Center for Innovative Teaching and Learning (@cnrapp) Luci Gommers (PhD candidate), University of St. Gallen, Institute of Business Education and Educational Management













Agenda

- Background of the project
- DBR approach
- Findings of literature research, data collection and interaction with projects
- Problems we found in description of seams and conceptual redefinition (example formal – informal). Three dimensions.
- Didactical principles
- Outlook: SL Tool

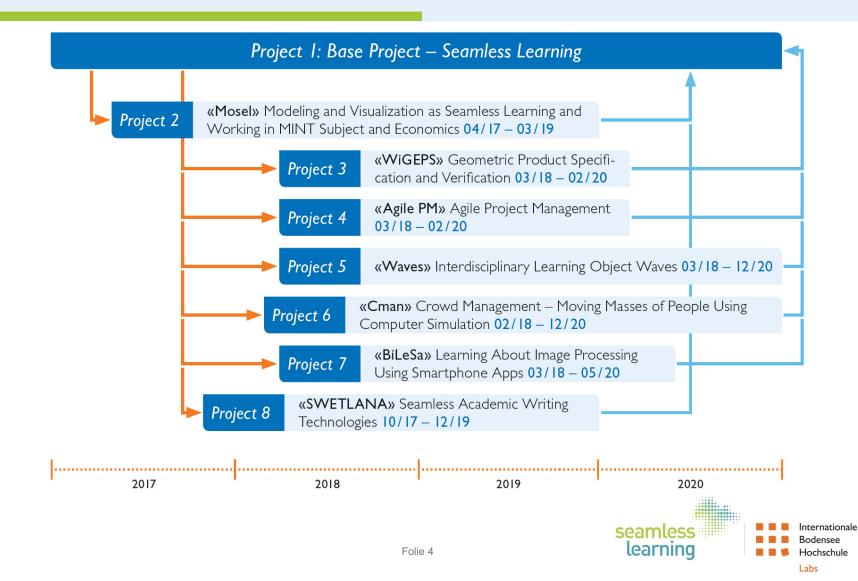


Consortium and funding scheme

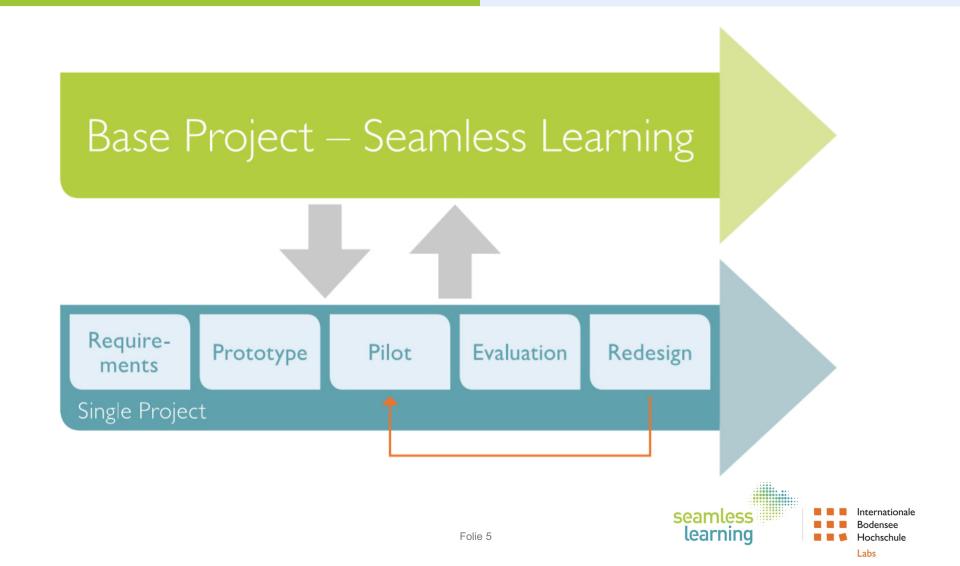




Projects within the Seamless Learning Lab



Relation between base project and subprojects, DBR approach used



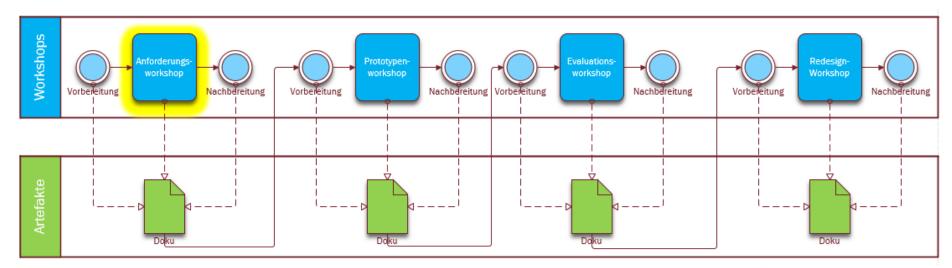
How field experiences are incorporated within DBR

- Perspective end-users: Focus groups
- Perspective instructors: Workshops (Canvas)
- Literature review



Workflow and artefacts within the project

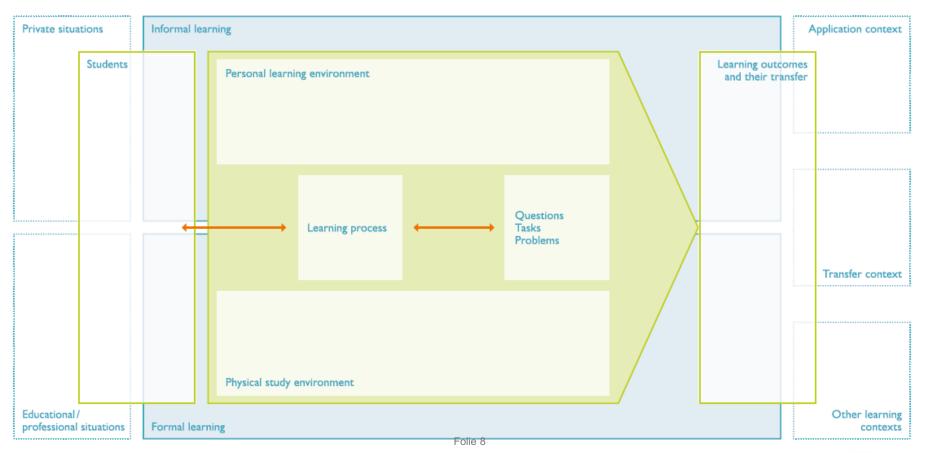
- Structured interaction via workshops between base project and subprojects
- Preparation and documentation via pre-structured artefacts
- Allows for cross-case comparison



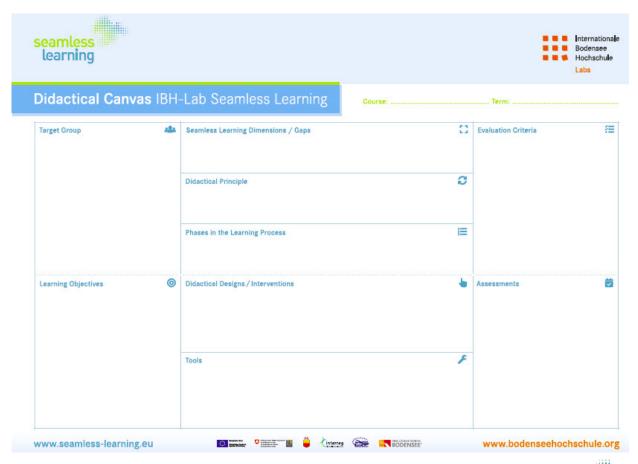


Canvas for obtaining requirements of instructors

IBH-Lab Seamless Learning Canvas

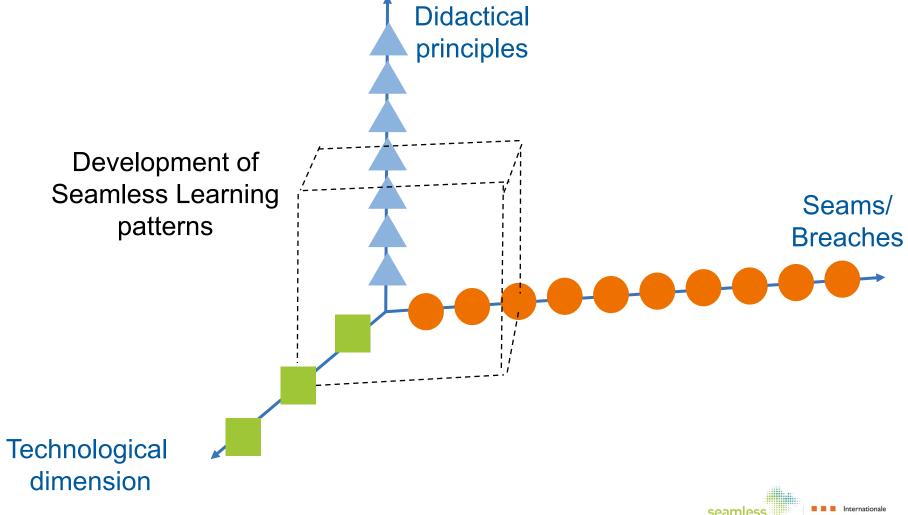


Didactical Canvas

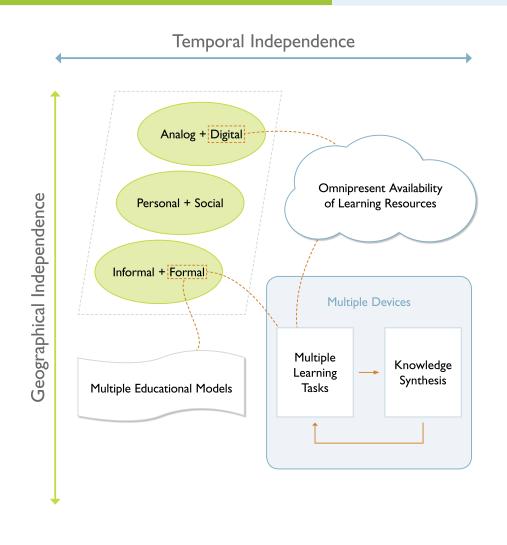




Aim of the base project: Develop a concept and tool for seamless learning consulting



10 MSL dimensions (Wong & Looi, 2011) (refined Wong 2012)







Analysis of seams within the 10 MSL dimensions





Analysis of the MSL dimensions/seams

Attitudes

Description of the dimensions/seams

Problems behind the dimensions/seams

Knowledge

Skills

Potential to bridge the seams







Description/conceptualization

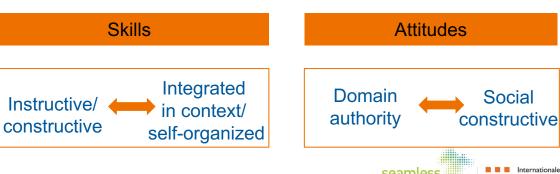
	Type II	Type III Unintended learning out of class e.g. using mobile phones to capture pictures and video clips of animal behaviors in a zoo and				
Out	Intended learning out					
class	of class					
	e.g. field trip to an art					
	museum which is part of a					
	school curriculum	share them with friends, driven by				
		self-interest				
In class	Type I	Type IV				
	Intended learning in	Unintended learning in class e.g. teachable moments, not				
	class e.g. browsing					
	digital textbooks on a	planned by teachers				
	Tablet PC					
	Intended	Unintended				

Potential

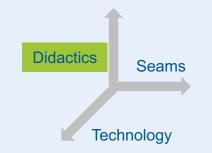
- Fostering lifelong learning
- Using the potential of informal learning resources

Analysis

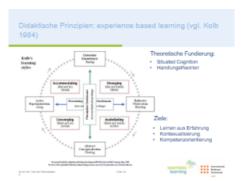
Knowledge Subject Action based based



Didactical principles











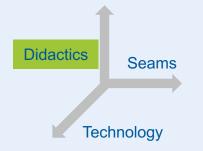
Didactical Design Principles

Objectives

Theoretical foundation

Design principles

Didactical principle: problem based learning (vgl. Barrows 1986)

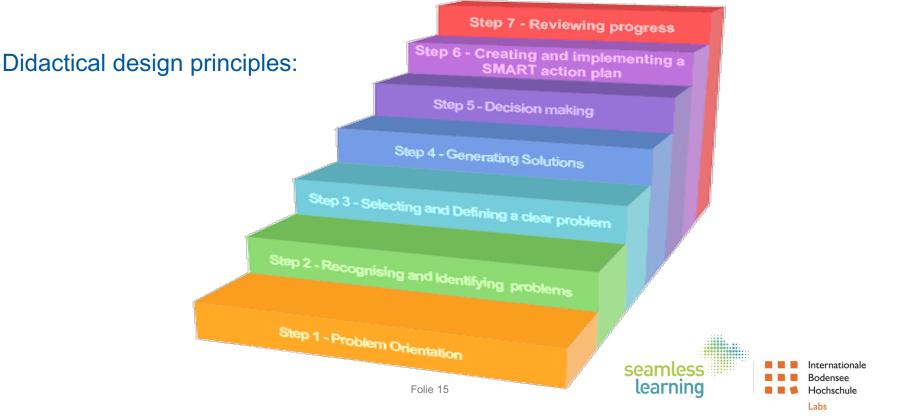


Objectives

- Complex problems
- Self-regulated learning
- Design based learning
- To enable personalized learning

Theoretical foundation

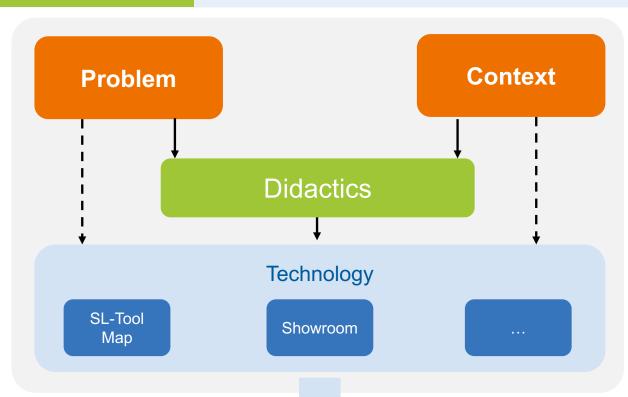
- Problem theory & problem solving theories
- Complex systems







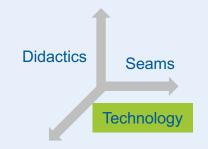
Technology Advisory Workshops

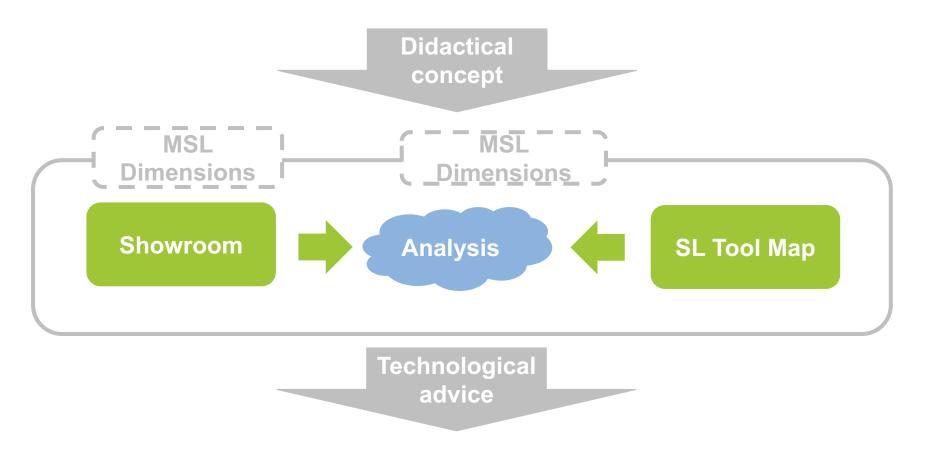


Technological Advice

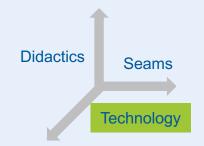


Technical support and SL Tool





Seamless Learning Tool Map



Tool Man

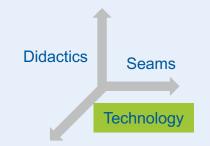
Seamless Learning Tool Map

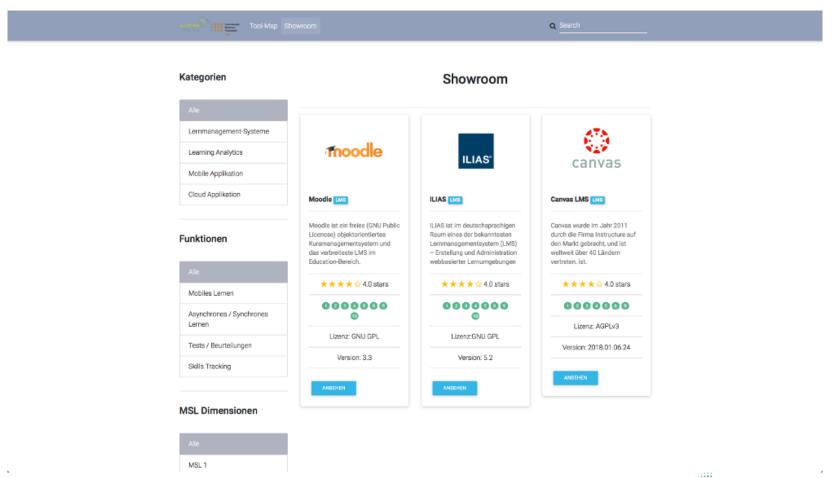
This is a Seamless Learning Tool Map. It provides information about tool that can be used to eliminate seams in learning environments. You can either browse through the map as a whole, or you can filter it by selecting the filter buttons. In order to find the necessary filter buttons faster, you can enter keywords into the search field. The three best rated tools can be seen on the right.

Filter keywords							Favourite Tools			
Dimensions MSL1 MSL2 MSL3 MSL4 MSL5 MSL6 MSL7 MSL8 MSL9 MSL10 Features							Moodle 5			
							ILIAS 4			
BLENDED LEARNING GAMIFICATION VIDEO CHAT SYNCHRONOUS LEARNING ASYNCHRONOUS LEARNING MOBILE APP STUDENT PORTAL CLASSROOM MANAGEMENT SKILLS TRACKING WIKI / BLOG FORUM MOBILE VIDEO EDITING Canvas LMS 4										
Tools										
Tool Map										
Tool Name MSL 1	MSL 2	MSL 3	MSL 4	MSL 5	MSL 6	MSL 7	MSL 8	MSL 9	MSL 10	
Canvas LMS Blended Learning Gamification	Video Chat Mobile App	Synchronous Learning Asynchronous	Mobile App	Mobile App Student Portal	Mobile App Student Portal	Mobile App Student Portal	Blended Learning Mobile App	Blended Learning Skills Tracking	Student Portal Skills Tracking	
		Learning			Classroom Management		Student Portal			



Showroom – allows testing of software in (docker) containers

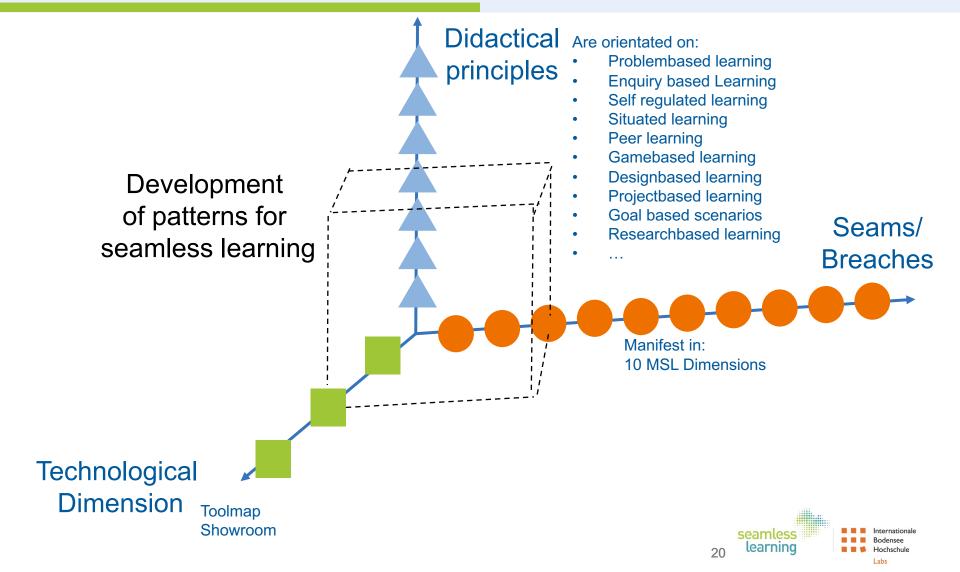








Outlook: Aim of base project - Develop conception for seamless learning consulting



Christian Rapp, ZID, ZHAW (rapp@zhaw.ch)
Luci Gommers, IWP University St. Gallen (luci.gommers@unisg.ch)