



**AALBORG UNIVERSITY**  
DENMARK

**Aalborg Universitet**

## **Ludic Engagement Designs for All (LEDA)**

Brooks, Eva Irene; Brooks, Tony

*Published in:*

Designs for learning 2012, 3rd International Conference Exploring Learning Environments, 25-27 April 2012, Copenhagen, Denmark

*Publication date:*

2012

*Document Version*

Publisher's PDF, also known as Version of record

[Link to publication from Aalborg University](#)

*Citation for published version (APA):*

Petersson, E., & Brooks, A. L. (2012). Ludic Engagement Designs for All (LEDA): Non-formal Learning and Rehabilitation. In R. Ørngreen (Ed.), Designs for learning 2012, 3rd International Conference Exploring Learning Environments, 25-27 April 2012, Copenhagen, Denmark: Conference Proceedings. (pp. 78-80). Copenhagen.

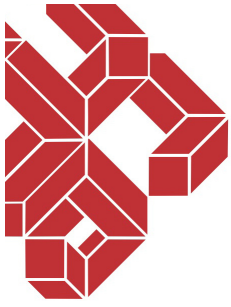
### **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- ? Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- ? You may not further distribute the material or use it for any profit-making activity or commercial gain
- ? You may freely distribute the URL identifying the publication in the public portal ?

### **Take down policy**

If you believe that this document breaches copyright please contact us at [vbn@aub.aau.dk](mailto:vbn@aub.aau.dk) providing details, and we will remove access to the work immediately and investigate your claim.



# DESIGNS FOR LEARNING 2012

3rd International Conference  
Exploring Learning Environments

25-27 April 2012

Copenhagen, Denmark

## CONFERENCE PROCEEDINGS

Organizing Committee:

Rikke Ørngreen (Conference Chair and Editor)

Birgitte Holm Sørensen, Karin Levinsen, Mie Buhl, Thorkild Hanghøj, Charlotte Weitze  
The Research Lab ICT and Designs for Learning, Aalborg University, Denmark

Staffan Selander, Anna Åkerfeldt, Eva Insulander, Tore West, Eva Svärdemo-Åberg, Anna-Lena Kempe  
Didaktik Design, Stockholm University, Sweden

Anette Eriksen

Department of Education, Aarhus University, Denmark

Frederik Lindstrand

Academy of Education and Business Studies, Gävle University, Sweden



Time table



Electronic proceedings



Designsforlearning.nu



ICT and Designs for Learning

[designsforlearning2012.aau.dk](http://designsforlearning2012.aau.dk)

Aalborg Universitet København, A. C. Meyersvænge 15, 2450 København

ISBN 978-87-995328-0-3

## Editorial / Welcome statement

*Dear reader,*

The following proceeding contains extended abstracts for the Third Designs for Learning Conference, DfL2012. The conference is held on the 25<sup>th</sup>-27<sup>th</sup> April 2012 in Copenhagen, Denmark and is preceded by a Master Class for all PhD-students on the 24<sup>th</sup>-25<sup>th</sup> April 2012.

The conference and the journal, which both bear the name Designs for Learning, was originally initiated by Professor Staffan Selander from Department of Didactic Sciences and Early Childhood Education, DidaktikDesign, at Stockholm University in 2008, as an intertwined and ambitious exploration of the research field of designs for learning. In 2010 the Swedish group lead by Professor Staffan Selander invited the Danish research group from Aalborg University (formerly affiliated with Aarhus University) lead by Professor Birgitte Holm Sørensen into collaboration regarding the conference as well as the editorial board of the journal. It was decided that the location of the conference should shift between Stockholm and Copenhagen every second year and the 3<sup>rd</sup> conference is the first one held in Denmark.

The peer-reviewed journal *Designs for Learning* (ISSN 1654-7608) is an academic international online journal, which is published by Stockholm University, Department of Didactic Sciences and Early Childhood Education, DidaktikDesign, Sweden. The editorial staff represents members of both the Swedish and the Danish research groups. The journal is at the crossroad of theoretical development and empirical examples related to learning resources, transformation processes, learning environments, and digital resources. The subject areas covered include learning designs and resources, multimodal texts, didactic science and pedagogy and the target group is mainly researchers. In conference years the journal dedicates an issue for selected papers from the conference.

The First Designs for Learning Conference was held in Stockholm with the theme: Defining the field. The second conference was equally held in Stockholm in 2010, where the theme was a new conceptualization of learning in terms of media, arenas, artefacts and spaces used for learning. This year's conference held in Copenhagen by Aalborg University and Stockholm University in partnership explores learning environments. The conference has been organized around empirical research methods and theoretical development in relation to designs for – and in – learning. The submissions are directed towards three categories:

1. Completed research projects
2. Research and development projects in progress
3. PhD projects

These proceedings contains 62 extended abstracts, written by 112 authors, representing various approaches to exploring learning environments. Just over 100 participants registered so far and the conference is organised around 4 parallel paper sessions, includes 5 workshops, a PhD poster presentation including a PhD presentation madness/firehose, and last but not least 5 keynote presentors in 4 keynote presentations.

*We hope you enjoy reading the proceeding, we wish everyone a happy conference and hope that the conference will bring you new and interesting high quality inputs.*

*From the organising committee:*

Rikke Ørngreen, Birgitte Holm Sørensen, Karin Levinsen, Mie Buhl, Thorkild Hanghøj, Anette Eriksen, Charlotte Weitze, Staffan Selander, Anna Åkerfeldt, Eva Insulander, Tore West, Eva Svärdemo-Åberg, Anna-Lena Kempe, Frederik Lindstrand

## Table of Content

Through submission the authors have granted the Designs for Learning organisation and the DfL2012 conference organisation rights to print the extended abstract in the electronic proceeding and make the extended abstract publically available online for free.

**The copyright belongs to the authors**

Editorial / Welcome statement .....	2
<b>Keynote Abstracts .....</b>	<b>8</b>
Design for Learning, Exploring Learning Environments.....	9
<i>By professor BIRGITTE HOLM SØRENSEN (1) &amp; professor STAFFAN SELANDER (2)</i>	
Who ‘designs’ the home as a site for learning? .....	10
<i>By Principal Research Fellow, Dr. JULIAN SEFTON-GREEN</i>	
The Learning Designer: Supporting teaching as a design science .....	11
<i>By Professor DIANA LAURILLARD</i>	
The Nature of Design .....	12
<i>By Professor &amp; Interaction Designer JONAS LÖWGREN</i>	
<b>Completed Research Projects .....</b>	<b>13</b>
Designing Interaction in Interaction Design: Using Interactionaries in Order to Understand Student Use of Interaction Design Concepts.....	14
<i>By ARTMAN HENRIK<sup>1</sup>, KARLGREN KLAS<sup>2</sup>, RAMBERG ROBERT<sup>3</sup> &amp; STRÅÅT BJÖRN<sup>3</sup></i>	
U-CrAc Flexible Interior Doctrine, Agile Learning Environments .....	17
<i>By SØREN BOLVIG &amp; CLAUS A. FOSS ROSENSTAND</i>	
Designing For Creative Learning, Models of Integration of the Arts in Curriculum .....	20
<i>By TATIANA CHEMI</i>	
The (im)possibilities of using smartphones in upper-secondary education, a critical case study .....	23
<i>By NIKOLAJ FRYDENBJERG ELF</i>	
Playing With Boundaries, A Ph.D. project studying location-based games .....	25
<i>By STINE EJSING-DUUN</i>	
Exploring meaning-making in multimodal learning environments through processual methodologies .....	27
<i>By LISA GJEDDE<sup>1</sup> &amp; HELENE SØRENSEN<sup>2</sup></i>	
Teaching With Game Scenarios: Outlining a Theory for Game-Based Education.....	30
<i>By THORKILD HANGHØJ</i>	
The fluidities of digital learning environments and resources– opening up their educational development spaces.....	32
<i>By MIKALA HANSBØL</i>	
Concepts of E-learning.....	35
<i>By JENS JØRGEN HANSEN</i>	

Categorizing Education: Developing a metadata standard for the description of learning material, competence and content .....	37
<i>By THOMAS ILLUM HANSEN<sup>1</sup>, &amp; JEPPE BUNDSGAARD<sup>2</sup></i>	
The Empty Exhibition: Opportunities and Crisis in Digital Presentation in the Museum ...	39
<i>By FENG-YING KEN &amp; SHIN-CHIEH TZENG</i>	
Proactive Reviews - A method for organisational learning and individual competence development .....	42
<i>By DITTE KOLBÆK</i>	
Learning on Location, QR-Codes in the Classroom .....	45
<i>By ANNA-BRITT KROG &amp; DORTHE CARLSEN<sup>2</sup></i>	
Designs For Learning, Image-based conceptual inquiry: a DBR research project .....	47
<i>By NATASA LACKOVIC &amp; CHARLES CROOK</i>	
Learning Processes and Robotic Systems, – design of educational tools and learning processes using robotic media and using children as co-designers.....	49
<i>By GUNVER MAJGAARD</i>	
Digital games and signs of learning outcomes.....	52
<i>By METTE NORDBY &amp; ERIK KNAIN</i>	
Designing for social – the role of social in web-based learning environments.....	54
<i>By LINDA RENELAND-FORSMAN</i>	
WOFIE, linear to agile learning design.....	56
<i>By CLAUD A. FOSS ROSENSTAND<sup>1</sup> &amp; NANNA TRIBLER<sup>2</sup></i>	
Using music to design the Jympa group training experience.....	59
<i>By JOHNNY WINGSTEDT &amp; RONNY LINDEBORG</i>	
<b>Research and Development Projects in Progress .....</b>	<b>61</b>
Expectations, Practices and Rituals – Explorations of Transition between Elementary and Primary Education by the Example of Eating Rituals: A Qualitative Research Project of Trier University .....	62
<i>By BIRGIT ALTHANS &amp; MARC TULL</i>	
Design of Collaborative Peer Feedback with Self-assessment for Online Learning .....	65
<i>By LISBETH AMHAG</i>	
Growing Wild and Being Managed, Mobile Communication and Internet Use in Public and Private Spaces in Vietnam.....	68
<i>By LARS BIRCH ANDREASEN</i>	
Classroom blogging - a genre of writing into knowledge .....	71
<i>By SOL-BRITT ARNOLDS-GRANLUND; RIA HEILÄ-YLIKALLIO; HANNAH KAIHOVIRTA-ROSVIK; DAN ÅKERLUND</i>	
Participatory challenges in organizational learning processes.....	73
<i>By JØRGEN BLOCH-POULSEN</i>	
Exploring the Design Space of Genre Pedagogy and Virtual Learning Environments .....	75
<i>By MONA BLÅSJÖ<sup>1</sup>, OLA KNUTSSON<sup>2</sup> &amp; TERESA CERRATTO PARGMAN<sup>2</sup></i>	
Ludic Engagement Designs for All (LEDA): Non-formal Learning and Rehabilitation.....	78
<i>By EVA PETERSSON BROOKS &amp; ANTHONY L. BROOKS</i>	
A Design Perspective to Learning.....	81
<i>By EVA PETERSSON BROOKS<sup>1</sup> &amp; TORBEN ROSENØRN<sup>2</sup></i>	

Mixed artefacts as mediators for collaborative learning .....	84
<i>By ELLEN CHRISTIANSEN, JACOB DAVIDSEN &amp; ULLA KONNERUP</i>	
Representation of toys through a curator’s discourse, Child’s play or adult collection?.....	87
<i>By ANNE JODON COLE<sup>1</sup> &amp; EVA PETERSSON BROOKS<sup>2</sup></i>	
Three approaches to integrating learning games in business education.....	89
<i>By THOMAS DUUS HENRIKSEN<sup>1</sup> &amp; TIMO LAINEMA<sup>2</sup></i>	
Method for tracking reflected reading and multimodal learning of pupils with various abilities .....	92
<i>By JANA HOLSANOVA<sup>1,3</sup>, NILS HOLMBERG<sup>2,3</sup> &amp; JOHAN EK<sup>1</sup></i>	
REMAKE: Representations, resources and meaning-making. The Middle Ages as a knowledge domain in different learning environments.....	95
<i>By EVA INSULANDER, STAFFAN SELANDER (1) and FREDRIK LINDSTRAND (2)</i>	
Combating Educational Disadvantages: Exploring Learning Environments and Designs in Upper Secondary Schools in Denmark .....	97
<i>By ULLA HØJMARK JENSEN &amp; ARNT VESTERGAARD LOUW</i>	
Musical learning and artistic performance in music teacher education – a study of how jazz vocal and ensemble lessons are designed.....	99
<i>By RAGNHILD SANDBERG JURSTRÖM</i>	
Design Research on Media Tools for Reflection in Learning.....	101
<i>By ANNA KEUNE, TEEMU LEINONEN &amp; JUKKA PURMA</i>	
The room in higher education – a space for learning? .....	104
<i>By MARIE LEIJON</i>	
Health Educational Potentials of Technologies .....	106
<i>By RIKKE MAGNUSSEN<sup>1</sup> &amp; JENS AAGAARD-HANSEN<sup>2</sup></i>	
Moments of Play, Digital technology and museums as playful learning environments ....	109
<i>By EMANUELA MARCHETTI<sup>1</sup> &amp; EVA PETERSSON BROOKS<sup>2</sup></i>	
Designing games for preschool language learning .....	112
<i>By BENTE MEYER.</i>	
Creative Digital Mathematics.....	114
<i>By MORTEN MISFELDT</i>	
Designing for informed group formation .....	117
<i>By HANNE WESTH NICOLAJSEN, ALICE JUEL JACOBSEN* &amp; MARIANNE RIIS</i>	
Multimodality and video observation in “Collective Academic Supervision” in the Master Program in Guidance, Aarhus University, Denmark. ....	120
<i>By HELLE NORDENTOFT<sup>1</sup> &amp; MIE BUHL<sup>2</sup></i>	
Emergent Forms of Peer-Mediated Learning: A Case Study of Role-Playing on Scratch	122
<i>By JOANNA LUZ SIEGEL</i>	
A Learning and Interaction design framework, from a study on formulating principles for the design of engaging music learning games.....	125
<i>By CHARLOTTE L. WEITZE &amp; RIKKE ØRNGREEN</i>	
Designing Teacher Education through scenario development.....	128
<i>By SANDY SCHUCK<sup>1</sup> and KEVIN BURDEN<sup>2</sup></i>	
Text-making and recognition of text in new media landscapes. A study of pupils’ design of texts in six project assignments within upper secondary schools. ....	131

By *EVA SVÄRDEMO-ÅBERG & ANNA ÅKERFELDT*

Videoconferencing in Music Education at the Conservatory Level ..... 133

By *RIKKE ØRNGREEN<sup>1</sup>, KARIN LEVINSEN<sup>1</sup>, MIE BUHL<sup>1</sup>, THOMAS SOLAK<sup>2</sup>,  
MARIANNE LØKKE JAKOBSEN<sup>2</sup>, & JESPER ANDERSEN<sup>2</sup>*

Workshops ..... 136

How does didactic design contribute to game-based learning processes for adults?..... 137

By *THOMAS DUUS HENRIKSEN*

Designing learning through full-body activities, technology and play practices ..... 139

By *HELLE SKOVBJERG KAROFF*

Mathematical Tools: Learning potentials and influence on mathematics curriculum ..... 140

By *MORTEN MISFELDT*

The Theory and Practice of Design for Learning: New Approaches Integrating  
Methodologies, Representations and Tools ..... 141

By *YISHAY MOR<sup>1</sup>; GRÁINNE CONOLE<sup>2</sup>; THOMAS RYBERG<sup>3</sup>*

Which methods for studying the dynamic nature of learning across contexts? ..... 143

By *Staffan Selander, Anna Åkerfeldt, Teresa C-Pargman and Ola Knutsson.*

PhD Projects ..... 144

Experimenting with Learning Activities based on Social Media or a Web 2.0 approach . 145

By *LILLIAN BUUS*

Caught in the web.Multimodal texts, feedback and learning in the subject Danish in Danish  
secondary school ..... 147

By *VIBEKE CHRISTENSEN*

Curators Process of Meaning-making: Connecting our Cultural Past with the Present..... 149

By *ANNE JODON COLE*

Touch technologies in primary education: Patterns of coordination, collaboration and  
participation in children's activities in an ict-intensive learning environment ..... 151

By *JACOB DAVIDSEN*

Persuasive Learning Designs ..... 153

By *SANDRA BURRI GRAM-HANSEN*

Design for Game Based Learning in a class situation..... 155

By *ANDERS NORDBY*

Vocational students' learning in classrooms and other rooms - with new technology and  
multimodal ways of working as bridge builder..... 157

By *METTE NORDBY*

Web based development of professional identity in physiotherapy and nurse education.. 159

By *ANNE-METTE NORTVIG*

Designing Internet Learning for Novice Users -Paper Based on a Action Research Project  
In India ..... 161

By *APARNA PURUSHOTHAMAN*

Personalized learning Ecologies in Problem and Project Based Learning Environments . 164

By *NIKORN RONGBUTSRI<sup>1</sup>, THOMAS RYBERG, PÅR-OLAZANDER*

Pedagogical documentation as a transformative potential in aesthetic learning processes 166

By *NORA SITTER*

Children’s collaborative encounters in preschool .....	169
<i>By LONE SVINTH</i>	
Return of the Gamer, Perceptions of the Digital Room .....	171
<i>By THOMAS WESTIN</i>	
Designs for Multimodal Literacy in School 2.0. A Discussion of Design Models.....	174
<i>By MARIANNE WÜRTZ</i>	
Exploring pupils possibilities to transform and represent their knowledge in a test situation .....	176
<i>By ANNA ÅKERFELDT</i>	



## Design Research on Media Tools for Reflection in Learning

By ANNA KEUNE, TEEMU LEINONEN & JUKKA PURMA

Aalto University School of Arts, Design and Architecture, Helsinki, Finland

*This paper presents research-based design experiments of three media tools to support reflective practices in a classroom. The experiments build on the discussion about the role of slow and reflective technology in learning. The paper presents three media tools for personal, group and community reflection.*

**Keywords:** reflection, new media, slow technology, ambient display, classroom

### INTRODUCTION: REFLECTION, LEARNING AND NEW MEDIA

The importance of reflection in learning has been widely discussed by scholars. Reflection is an essential concept in cultural-historical psychology, developed by Lev Vygotsky and his colleagues in the 1920s and 1930s. For Vygotsky individual development happens in interaction with others, and through conscious reflection on that interaction. Key question in a learning process is: What was experienced and learned? (Vygotsky 1978) In his seminal book on the Reflective Practitioner, Schön (1983) discusses experts' ability to reflect on their activity in and on action.

We consider that carefully designed new media tools may support reflection in learning. Using technology for reflection can present potential advantages: media technology can be used to record dialogue, to categorize contributions and to step back, reconfigure, evaluate and compare them.

### RESEARCH BASED DESIGN

In a research-based design the design forms an essential part of the outcome of research activities, which acknowledge that the design will be embedded in the everyday context and activities of people. The process is iterative and phases may happen side-by-side. Research-based design takes place in close collaboration with people concerned with the design. (Leinonen, 2010)

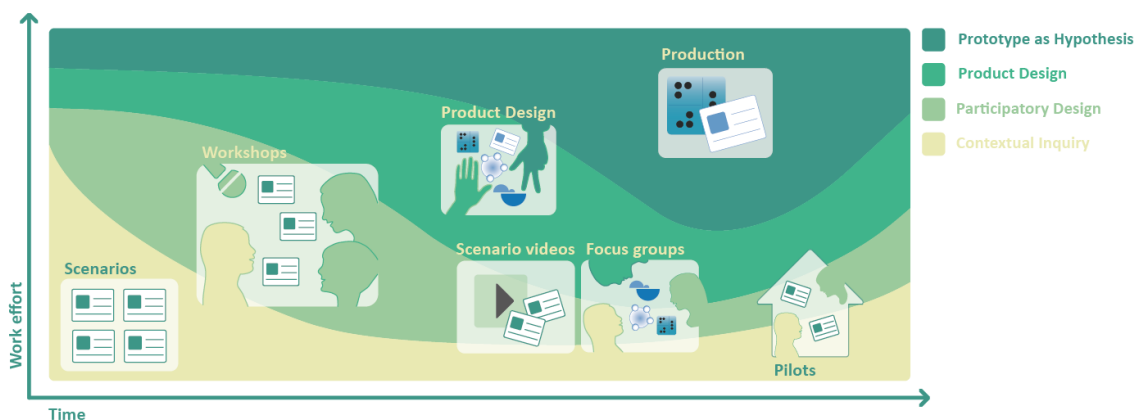


Figure 1: The four phases of the research-based design process (based on Leinonen, 2010)

The phases of the iterative process are illustrated in relation to the particular design experiments in Figure 1. The first phase, **contextual inquiry**, is formed around understanding the context, in which it is aimed to place the design. Here, classroom teaching and learning. In the **participatory design phase**, teachers and students across Europe were asked to participate in workshops and focus group sessions to gather their input on preliminary defined challenges, opportunities and prototypes. Through pre-pilots and pilots prototype designs

were tested with teachers in classrooms across Europe. The prototypes were designed in the **product design** phase. The insights gained from the workshops and sessions with teachers and students were translated into concrete design ideas by the researchers and design professionals without the teachers and students. The **production of software as a hypothesis** phase represents the development of non-functional and functional prototypes that are thought to improve the way in which learning activities are performed in the classroom.

In the following, we present three new media prototypes that were designed in the context of this design research, and we discuss the tools' afforded levels of reflection.

### THREE NEW MEDIA PROTOTYPES

The main contributions of this research are the prototypes, the illustration and the analysis of three tools that are expected to support reflection in learning: ReFlex, TeamUp and Ambire.

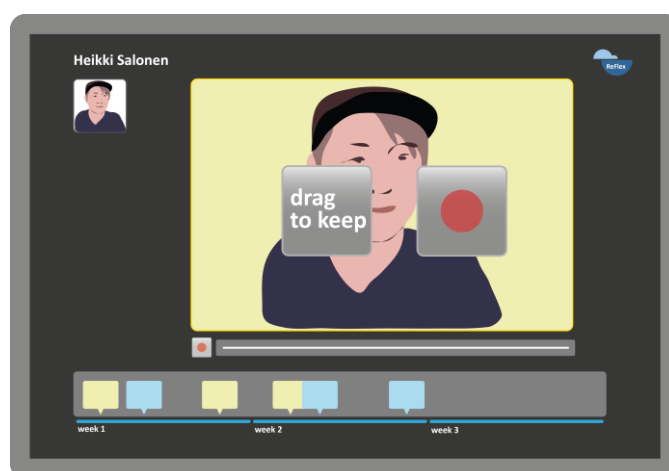


Figure 2: Illustration of ReFlex

**ReFlex** is a tool prototype (non-functional) for learners to record and share 1-minute audio updates of their personal learning experience (see Figure 2). The time limit is intended to support learners in practicing meta-cognition, presentation skills, and teachers to receive updates about the learners' progress in a compressed form.

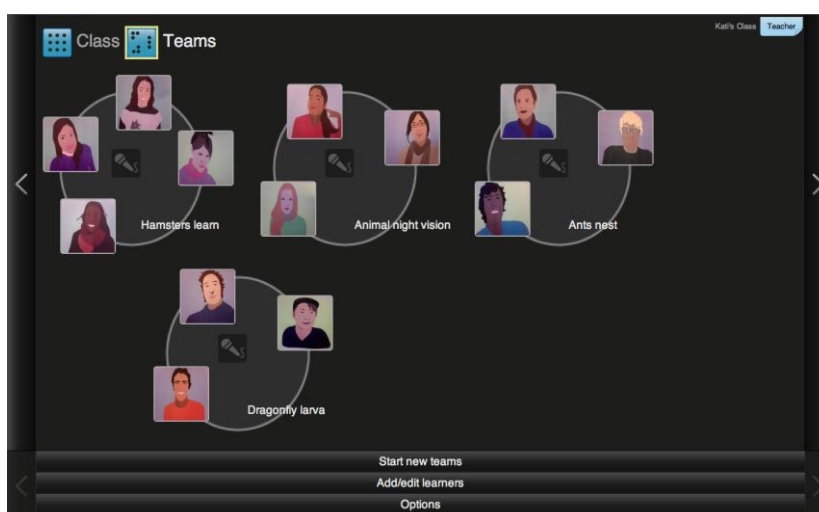


Figure 3: TeamUp interface

**TeamUp** is a web-based and open source software tool (functional) for forming teams based on interests, and for recording teamwork progress (see Figure 3). Teams can record 1-

minute audio updates about their inquiry group work progress, challenges and planned next steps. The recordings can be revisited; also by members of other teams and by teachers.



Figure 4: Illustration of Ambire in use

**Ambire** is an ambient display for 1:1 laptop/tablet classroom reflection, in which the content of each learner's screen rotates continuously on a large screen in the classroom (see Figure 4). The tool is promoting transparency, commons, sharing and reflection. Transitions and exact information about whose view is on the large screen are intentionally difficult to notice in Ambire.

On the basis of Fleck and Fitzpatrick's research (2010) and Focus Groups with teachers and students, the media tools' afforded reflection levels were analyzed. The interaction design and use of the tool support all five levels of reflection (see Figure 5).

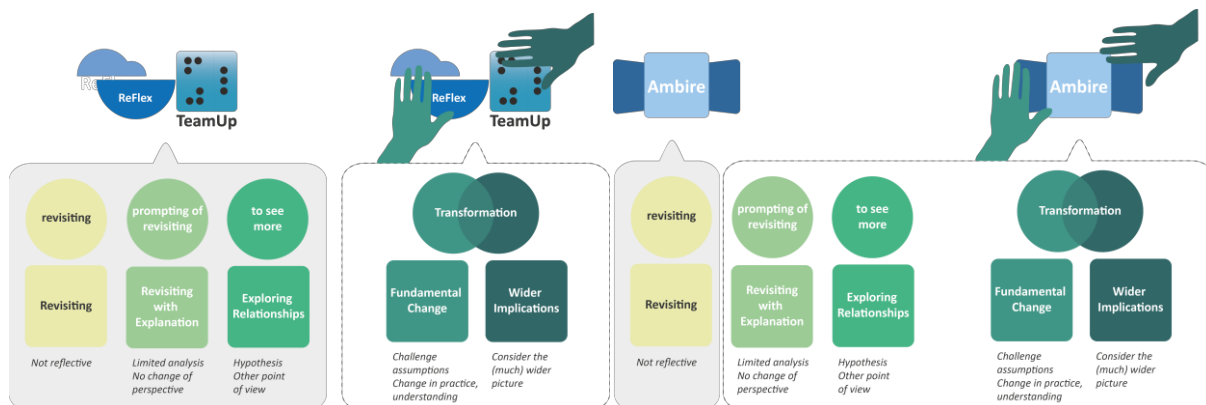


Figure 5: Reflection levels of the tools (based on Fleck & Fitzpatrick, 2010)

## REFERENCES

- Fleck, R. & Fitzpatrick, G., 2010. Reflecting on Reflection: Framing a Design Landscape. OZCHI '10 Proceedings of the 22nd Conference of the Computer-Human Interaction Special Interest Group of Australia on Computer-Human Interaction. New York: ACM, pp.216–223. doi:10.1145/1952222.1952269
- Leinonen, T., 2010. Designing learning tools: Methodological Insights. Ph.D. Aalto University School of Art and Design. Jyväskylä: Bookwell. Available at: <https://www.taik.fi/kirjakauppa/images/430c5f77373412b285ef7e32b5d16bd5>. Pdf
- Schön, D., 1983. The reflective practitioner, how professionals think in action. New York: Basic Books.
- Vygotsky, L. S., 1978. Mind in Society: Development of Higher Psychological Processes (14th ed.). Harvard University Press.

## The room in higher education – a space for learning?

By MARIE LEIJON

*The Faculty of Learning and Society at Malmö University, Malmö, Sweden.*

*This paper presents an ongoing postdoctoral research project with the ambition to contribute with knowledge on the interplay between space, interaction and learning in higher education. What kind of rooms do students meet in formal campus activities and how are they designed? How are students and teacher interacting using resources afforded by the room? These are some of the questions that the project aims to examine.*

**Keywords:** space, interaction, learning, higher education, Designs for Learning

### INTRODUCTION

This postdoctoral research project focuses the interplay between space, interaction and learning in higher education. Traditionally on-campus education is associated with lecture theatres and tutorial rooms and the physical room as such is often taken-as-given. Thus the performance of the room in higher education as a place for learning is open to question.

Space, place and room are familiar words, denoting common experiences. Space is used to discuss the room the interplay between interaction and learning. Space can also refer to a physical organization of the environment while place refers to social aspects, that is, we are located in spaces but acting in places. In this early stage of the postdoctoral project I am using space for both the physical and the social room.

Space, interaction and learning in higher education are under-researched topics compared to similar research with focus on schools. Literature reviews (cf. Temple, 2008) illuminates that studies on higher education tend to focus on either architecture or design of learning environments in connection to digital media or e-learning. There is, however, a field in multimodal studies focusing on the interplay between human interaction, space and learning in schools. A multimodal approach also highlights how physical environment, as part of the setting, constitute an essential element in communication (cf. Jewitt, 2008). My own thesis (Leijon, 2010) connects to the field discussing interaction in a teacher education context, where the setting plays an important part. By focusing on both space and learning in higher education the ambition with my postdoctoral project is to further contribute to the field.

### PURPOSE OF THE STUDY

One could discuss space as a conveyor of meaning and interaction as dependent on the affordances in a room. The design clearly communicates what is possible and allowed to do. Space shapes interaction, but interaction also shapes the space. It is essential to think about space in relation to negotiation and transformation. Even a strong setting is open for change (cf. Leijon, 2010).

Thus, a point of departure for my postdoctoral project is to examine space in higher education in relation to interaction and learning. I am doing this by following two groups of students during one course in their formal campus learning activities. I am also interested in the informal spaces that are shaped by students in connection to the formal activities. The study is guided by the following research questions: What kind of rooms do the students meet and how are they designed? How are students and teacher interacting using resources afforded by the room? What resources do the participants bring into the room and how are they used? What kind of informal rooms connected to the formal activities are designed by the students?

### **DESIGN**

For theoretical anchoring, the research preliminary draws upon a design theoretical perspective called “Designs for Learning” (cf. Selander & Kress, 2010) to understand the activities in the room and space as a part of a setting, all in relation to the concept of design. This will be connected to Goffman and his concept on interaction and framing.

The project combines video observation with interviews. Video observation affords a multimodal perspective in combining visual and auditory information connecting to the idea that humans use a variety of semiotic resources including speech, gesture or text, in order to communicate. I am also inspired of “stimulated recall” and will meet some of the participants shortly after the recording to discuss interaction in the room. Data is gathered from two different settings within higher education, including a group of students and teachers in teacher education and a group of students and teachers in specialist nursing education. In the first step of my postdoctoral project I have followed the teacher education group at four occasions, first observing the empty rooms, then the interaction in the formal spaces. I have then conducted interviews with both students and teachers.

### **FINDINGS**

This is very much a project in progress. The design for the postdoctoral project and some preliminary findings will be presented and discussed. Furthermore examples will be given from different video observations and interviews from the initial phase of the project.

### **REFERENCES**

- Jewitt, Carey (2008). Multimodality and Literacy in School Classrooms. In *Review of Research in Education*, 32, s. 241-267.
- Leijon, Marie (2010). Att spåra tecken på lärande. Medi Reception som pedagogisk form och multimodalt meningsskapande över tid. (Malmö Studies in Educational Sciences No. 52). Malmö: Malmö Högskola.
- Selander, Staffan & Kress, Gunther (2010). *Design för lärande – ett multimodalt perspektiv*. Stockholm: Nordstedts.
- Temple, Paul (2008). Learning spaces in education: an under-researched topic. In *London Review of Education*, 6(3), s. 229-241.