

MARTIN-LUTHER-UNIVERSITÄT HALLE-WITTENBERG

ZENTRUM FÜR MULTIMEDIALES LEHREN UND LERNEN





Structure, Functions, Responsibilities & Cooperation within the Martin Luther University

Dr. Kathrin Jäger



Content

1. Conditions of the Project
2. Fields of Work
3. Structure @LLZ
4. Topical Working Groups
 - Learning Management System
 - E-Lecture
 - E-Assessment
5. Certificate "Multimedia Teaching"
6. Projects



Conditions Of The Project

Part of the innovation project "Study multimedia" (funded by the Federal Ministry of Education and Research)



The project should "...lay stable foundations for a sustainable further development and modernization of the teaching and learning forms at the Martin Luther University."

First period: 4/2012 – 12/2016

Second period: 1/2017 – 12/2020



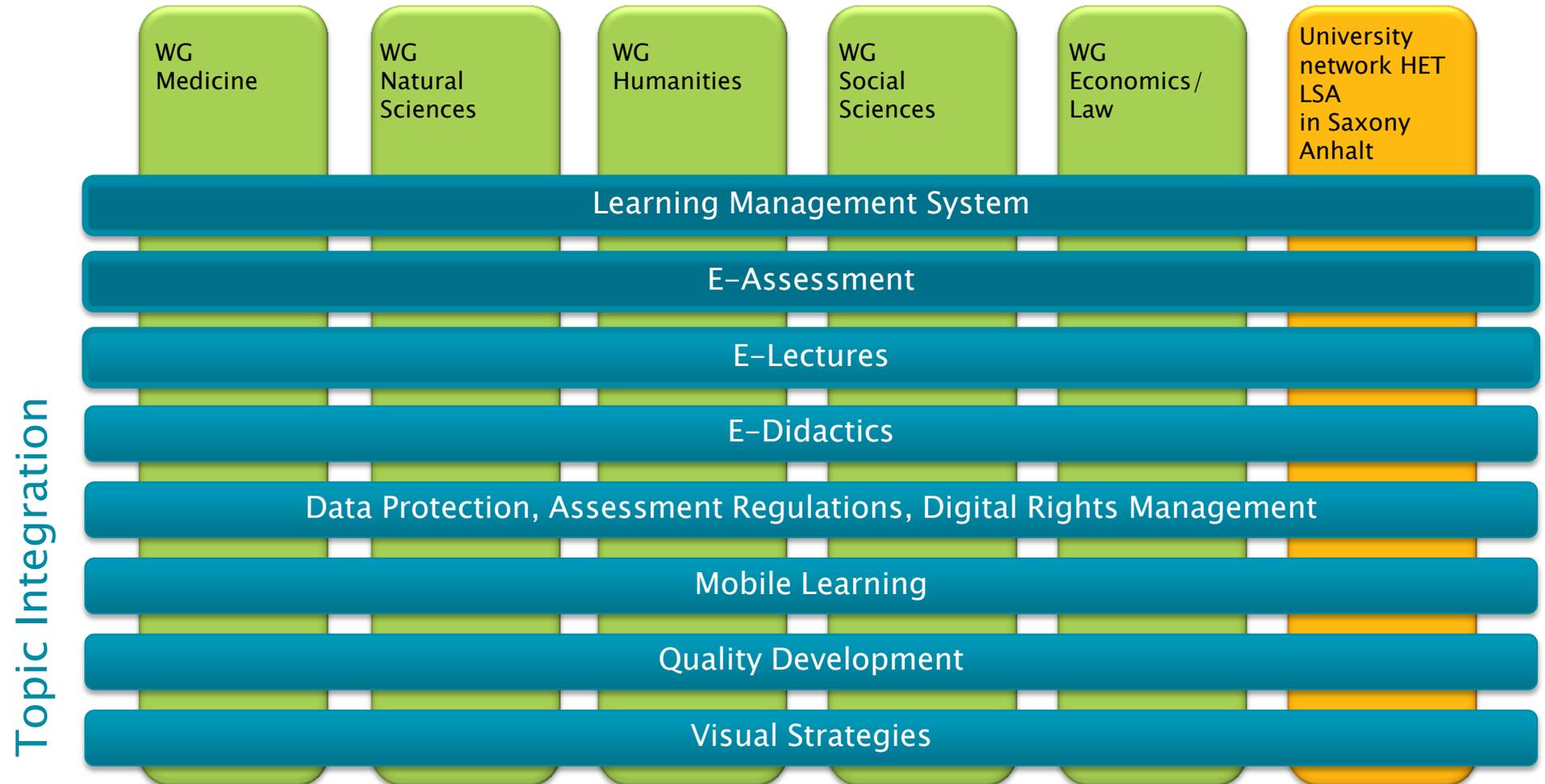
Focus

1. Provide technical, legal and structural conditions
2. Advice on all matters in the field of e-learning
3. Solutions for didactic implementation scenarios
4. Attendance and self-study courses, practical workshops, software manuals
5. Documentation of best-practice examples, publish, transfer
6. Coordination of cooperation projects similar to each other



Structure – Working Groups

Subject Integration



Topic Integration



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Learning Management System

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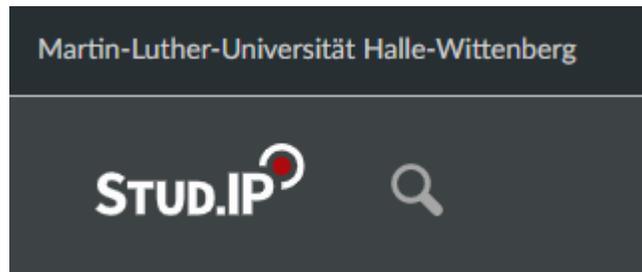


Stud.IP / ILIAS

Two systems Stud.IP and ILIAS are used for e-learning

Course- & student management system

- Organization
- Administration



Environment for learning and working online

- Integrated tools



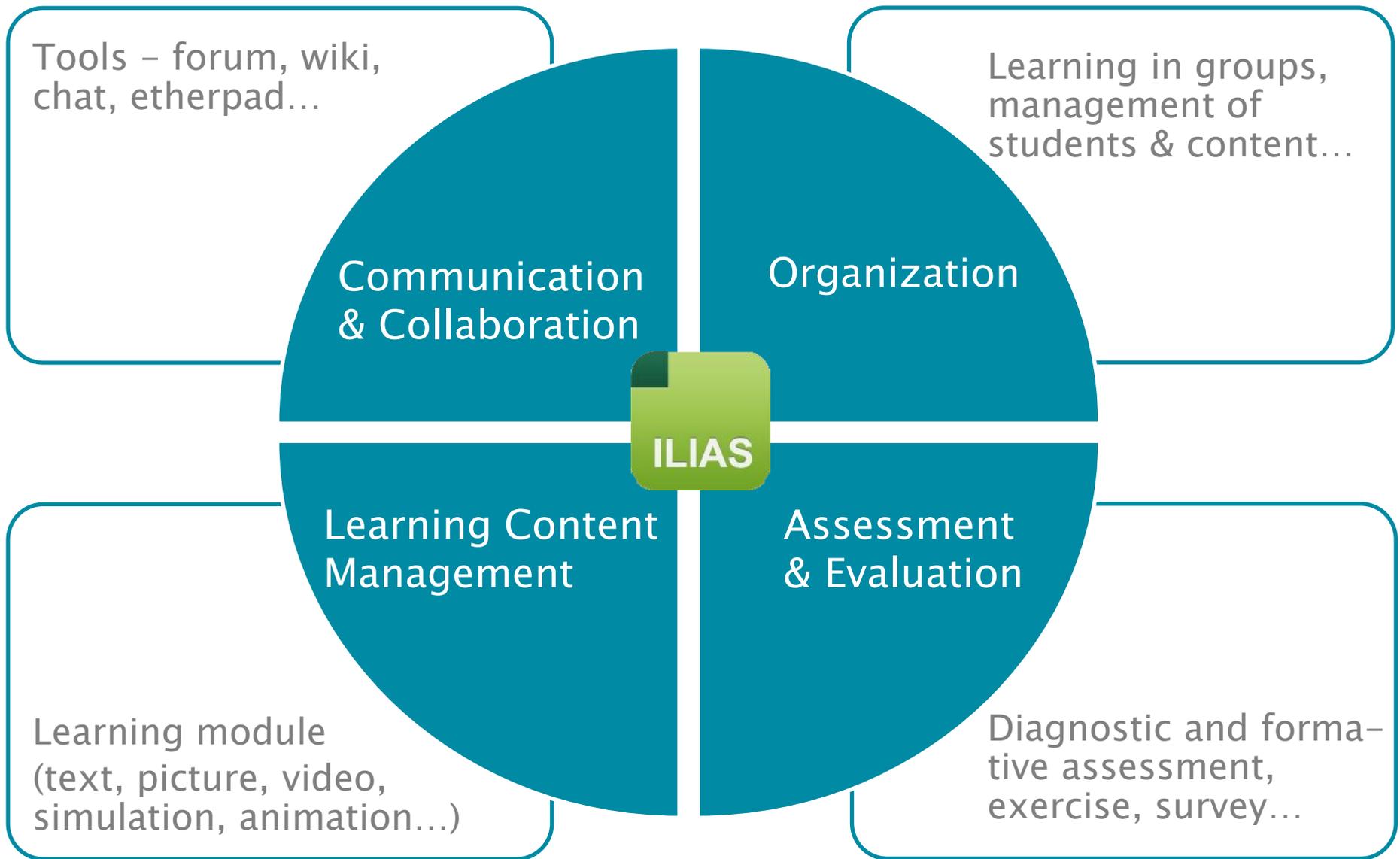
ILIAS

Integrated Learning, Information and Work Cooperation System

- open-source web based *Learning Management System*
- it supports
 - learning content management
 - tools for collaboration & communication
 - organization
 - evaluation and assessment
- software is published under the GNU General Public License
- hosted at our university



ILIAS



ILIAS-Module „Scientific Work“





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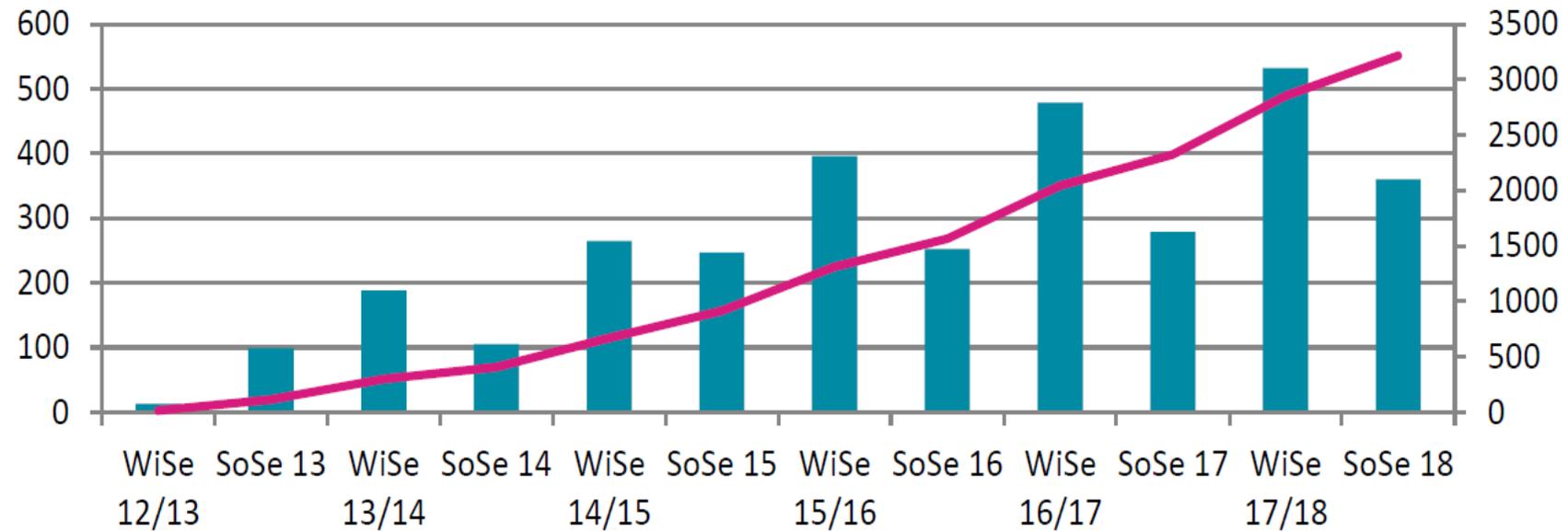
E-Lecture

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E-Lectures

E-Lectures in total (3215) 2012-2018



E-Lecture

Multimedia lecture material offers students the opportunities

- to prepare content with a view to a future course
- to rework knowledge already acquired
- to repeat content precisely for exams

Students can rework the lecture

- individual
- adapted to the own learning rate
- location- and time-independent



E-Lecture

The integration of e-lectures is complex and needs technical and legal infrastructures.

Media backpack



recording with a camera, coupled with screen recording

Installed systems in 24 lecture halls



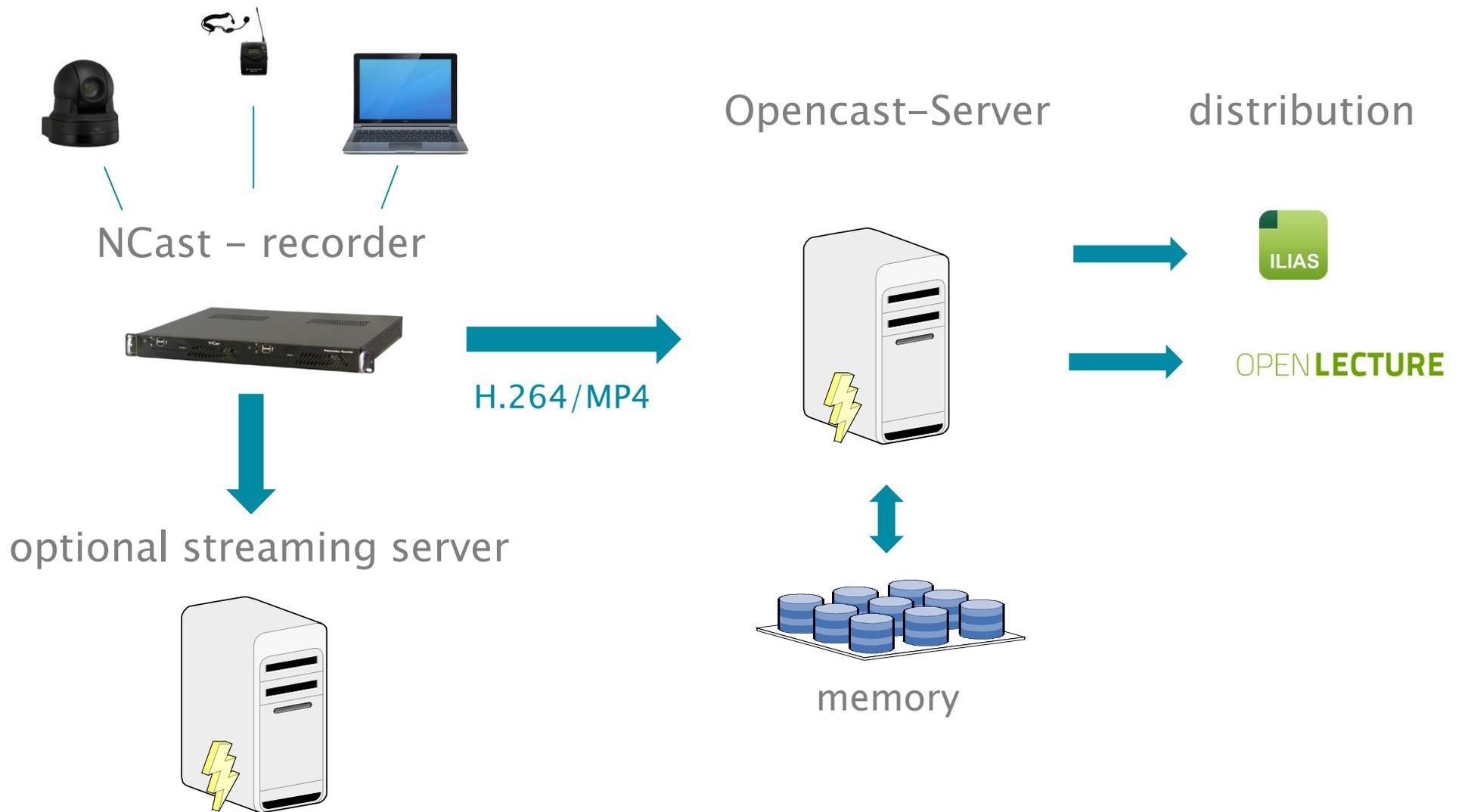
video capture, management and distribution system

Screencasts



video screen capture for pre-production of lectures

System Construction – Overview



Technical implementation

- Opencast – open source software for video capture and processing
- International Community (Harvard, Stanford, ETH Zurich...)
- fully automatic operation system
- hosted at our university



E-Lecture

OPEN LECTURE

Ausgeloggt ▾



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Fördern großformatige Multitouchscreens Entscheidungsprozesse in Seminaren?

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Martin-Luther-Universität Halle-Wittenberg
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ARSC



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🔍 100% ▲

🕒 100% ▲

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Fördern großformatige Multitouchscreens Entscheidungsprozesse in Seminaren?





E-Assessment



E-Assessment



- ...classical exams on site at the university
- ...created and supervised by lecturers
- ...stored on computers under the same conditions as a classic "written" exam and
- ...predominantly automatically evaluated

E-Assessment

Requirements for online exams

- legally binding
- existing infrastructure | technical stability
- compatible system to the technical infrastructure of the university
- maximum protection against cheating

- 
- Legally binding
 - Organization
 - Technical support
 - Question methodology

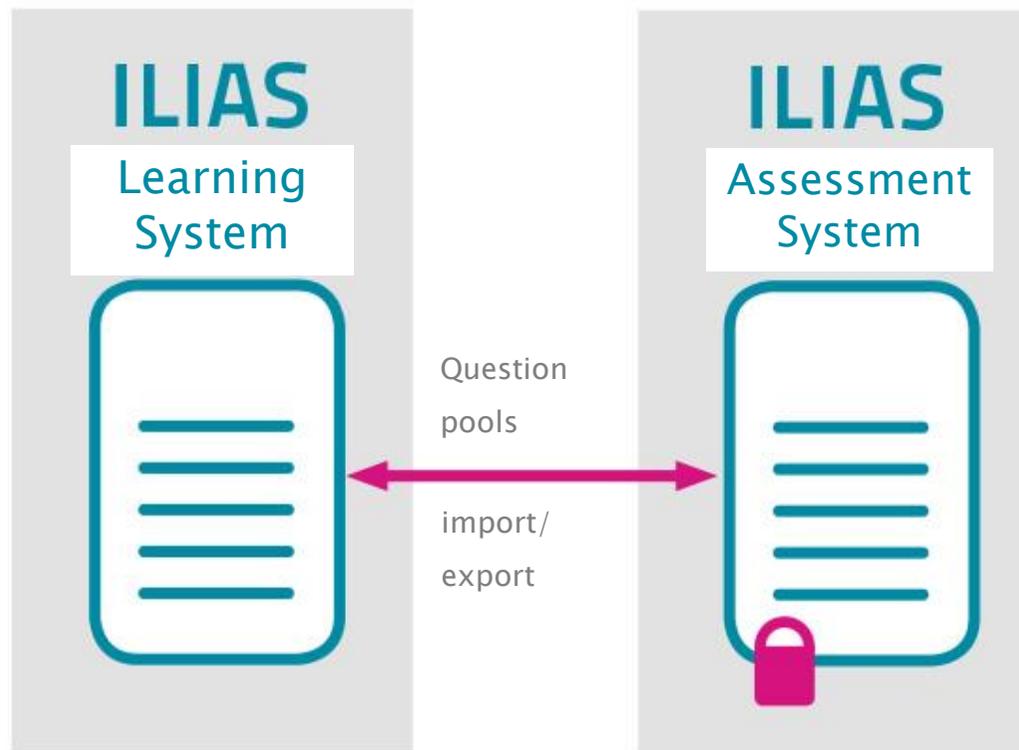
E-Assessment

Learning and Assessment System of our University

Processing of

- Question pools
- Tests

implementation of
seminar-
accompanying
tests



Processing of

- Question pools
- Tests

implementation of
E-exams

Question Types

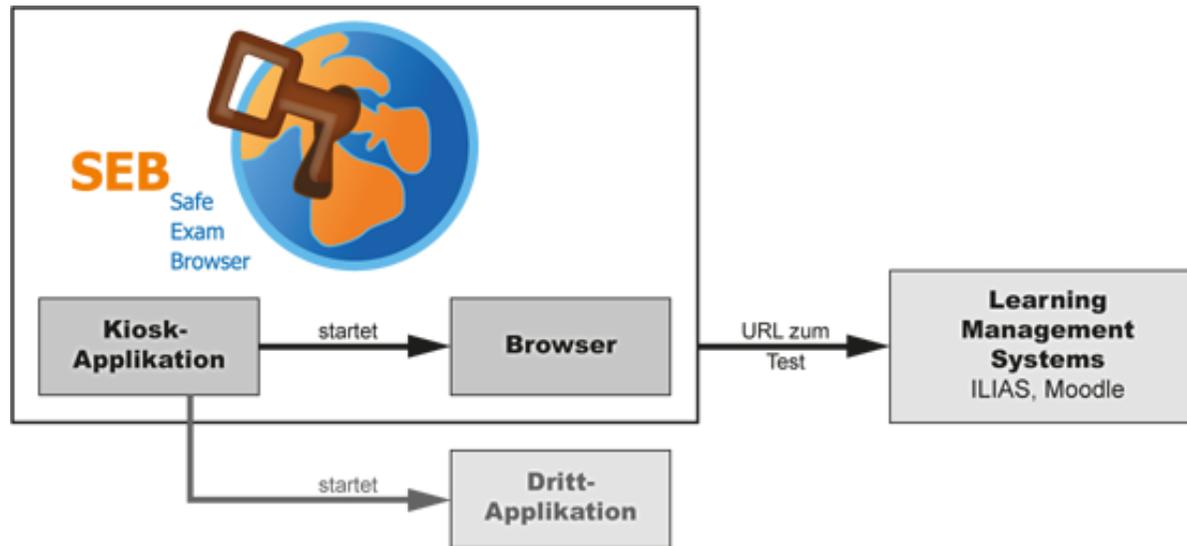
automatically evaluable question types

- Single choice
- Multiple choice
- Arrangement question
- Kprim question
- Fill in the blank
- Numerical question
- Error text
- Image Map
- Structural chemical formula
- Stack (algebra/statistic)

individually evaluable question types

- Free text
- Drawing task

E-Assessment



- webbrowsers-environment to carry out online-exams safely
- changes any computer into a secure workstation
- regulates the access to any utilities and prevents students from using unauthorised resources

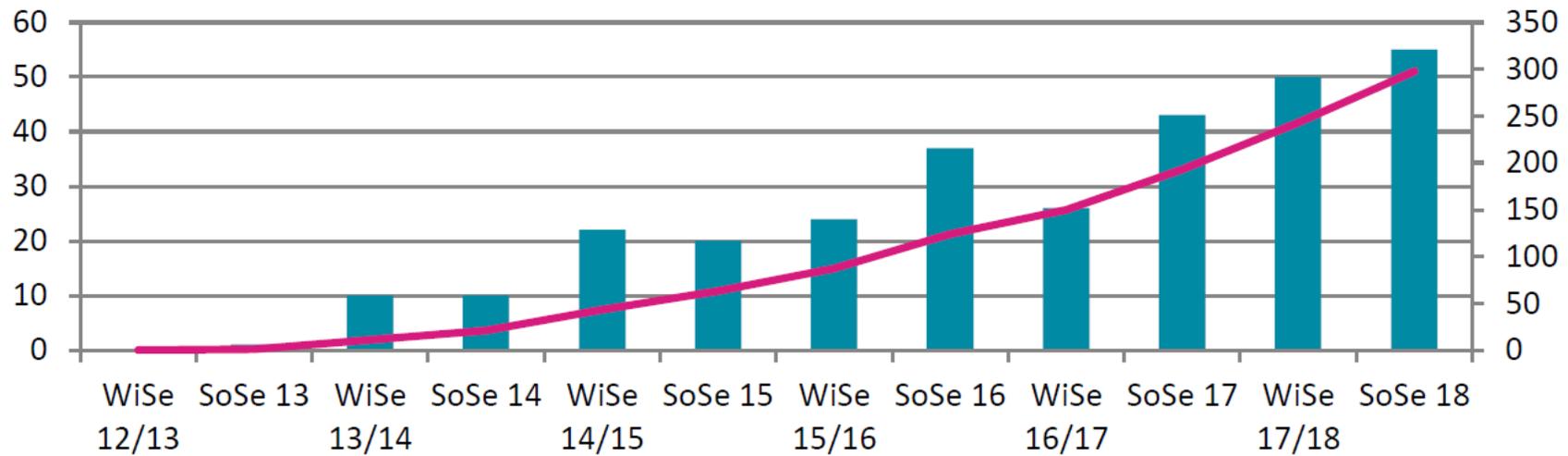
E-Assessment

set up: 200 laptops for a flexible assessment center



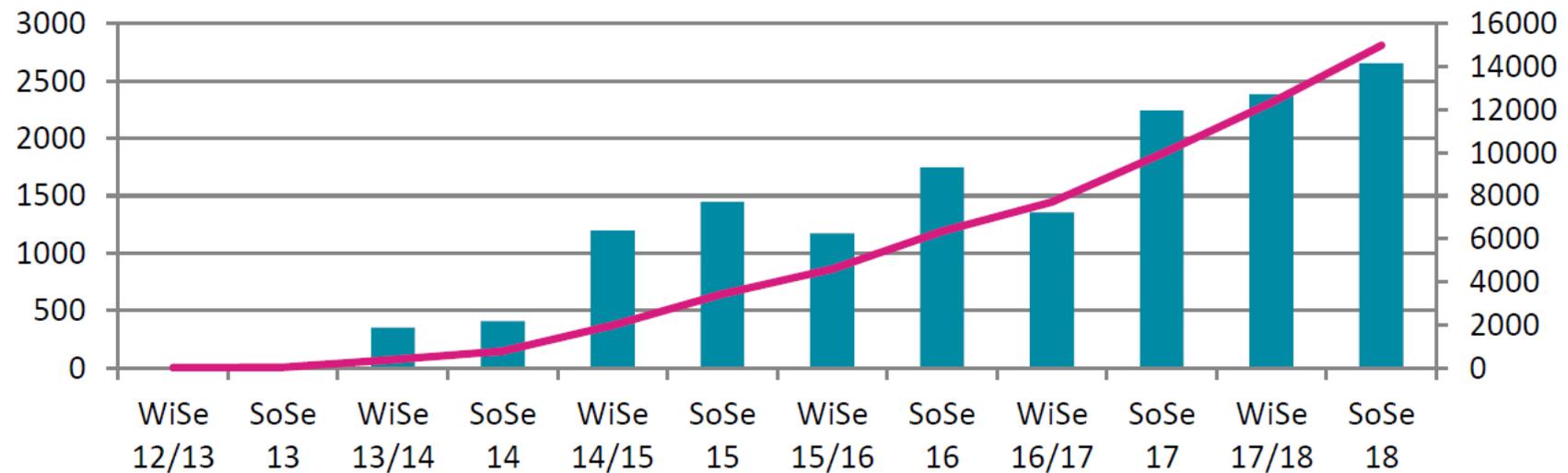
E-Assessment

E-Exam - in total (298) 2014-2018



E-Assessment

E-Exam – Students (14996) 2014–2018





Overview: Certificate "Multimedia Teaching"



Certificate "Multimedia Teaching"

Goal:

teachers can develop and implement their own ideas for the integration of multimedia and e-learning in teaching

- 85 working units (on site and online)
- completion over several semesters possible
- all workshops can also be attended independently of the acquisition of the complete certificate

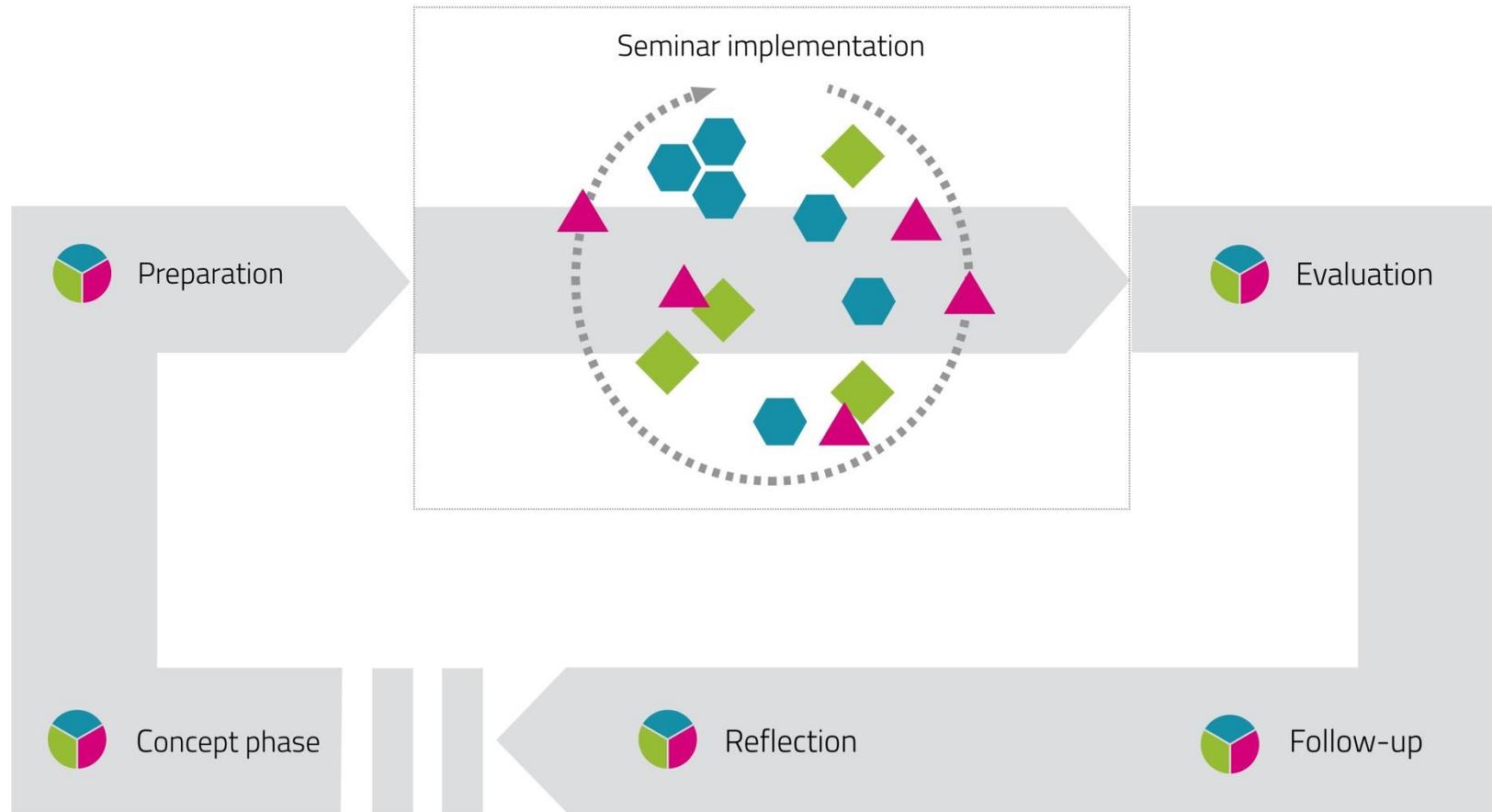
Certificate "Multimedia Teaching"

Four topics focussing on

- Media production and use
- Application of multimedia tools
- E-Assessment
- Cooperative learning



Designing a seminar



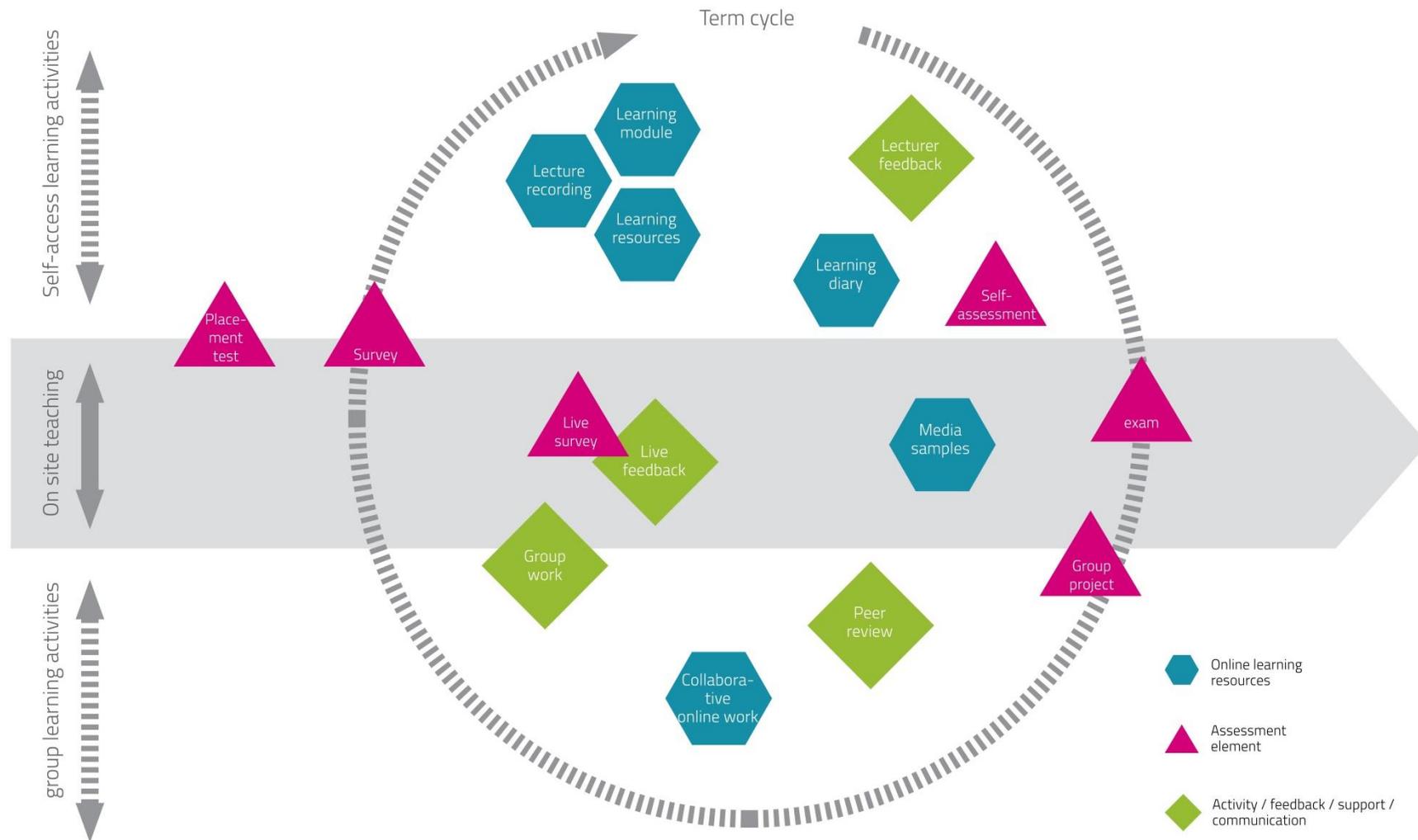
 Multimedia arrangements

 Online learning resources

 Assessment element

 Activity / feedback / support / communication

Term progression





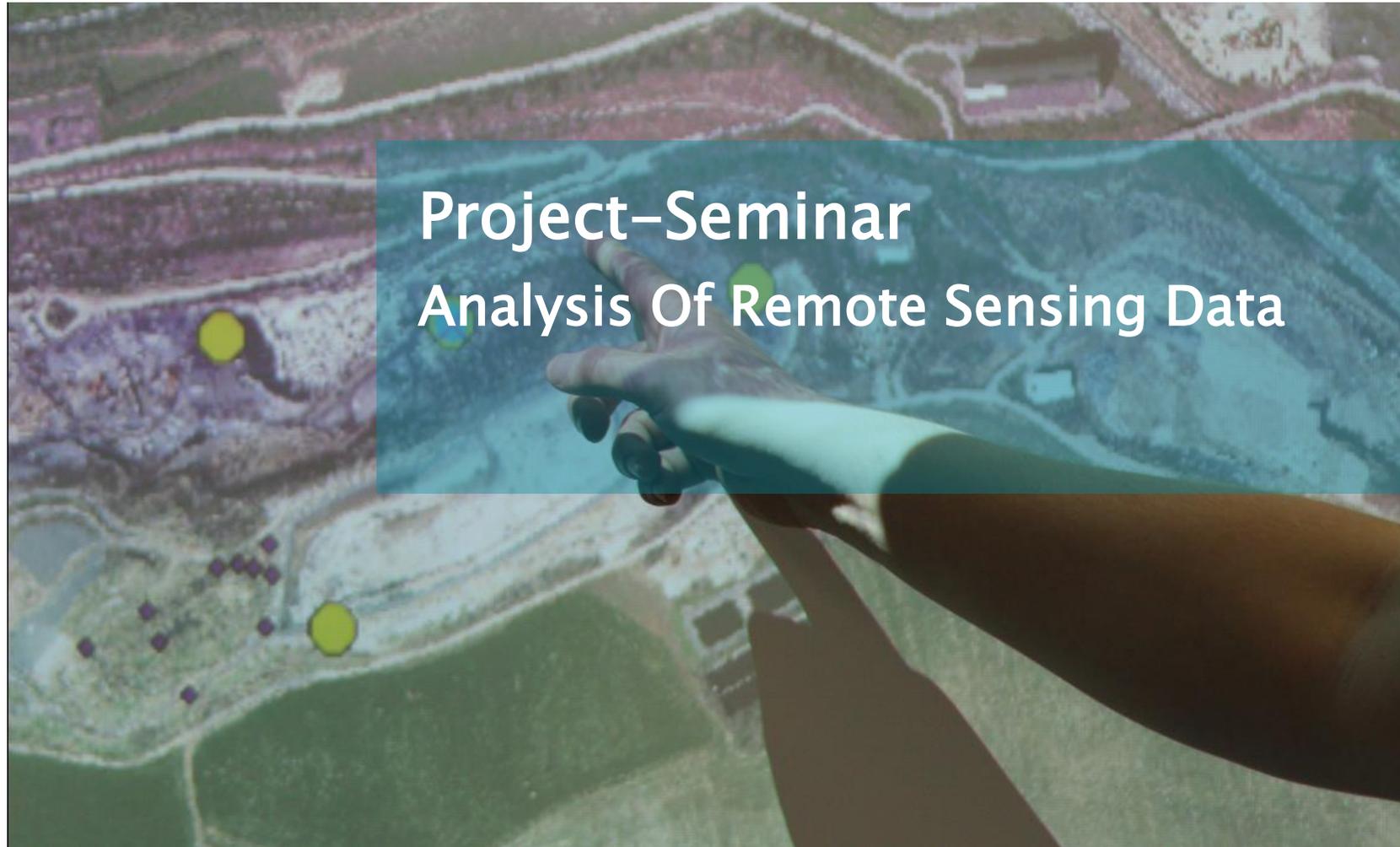
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Additional Projects With The Institute of Geosciences and Geography

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Multimedia Project–Seminar



Multimedia Project–Seminar

Interactive Whiteboard „Smartboard 800“ (Smart)

Surface – Table „Samsung SUR40 Pixelsense“

- Smartboard and Multitouch–Surface support collaborative work
- tested the combined use
- content can not only be presented statically, but also developed dynamically step by step



Multimedia Project–Seminar



Students were more active than usual
the students' point of view

“...the seminar was visually even more appealing and descriptive”

„... the collaboration is helpful for understanding...”

„... the cooperation in the student group was improved...”



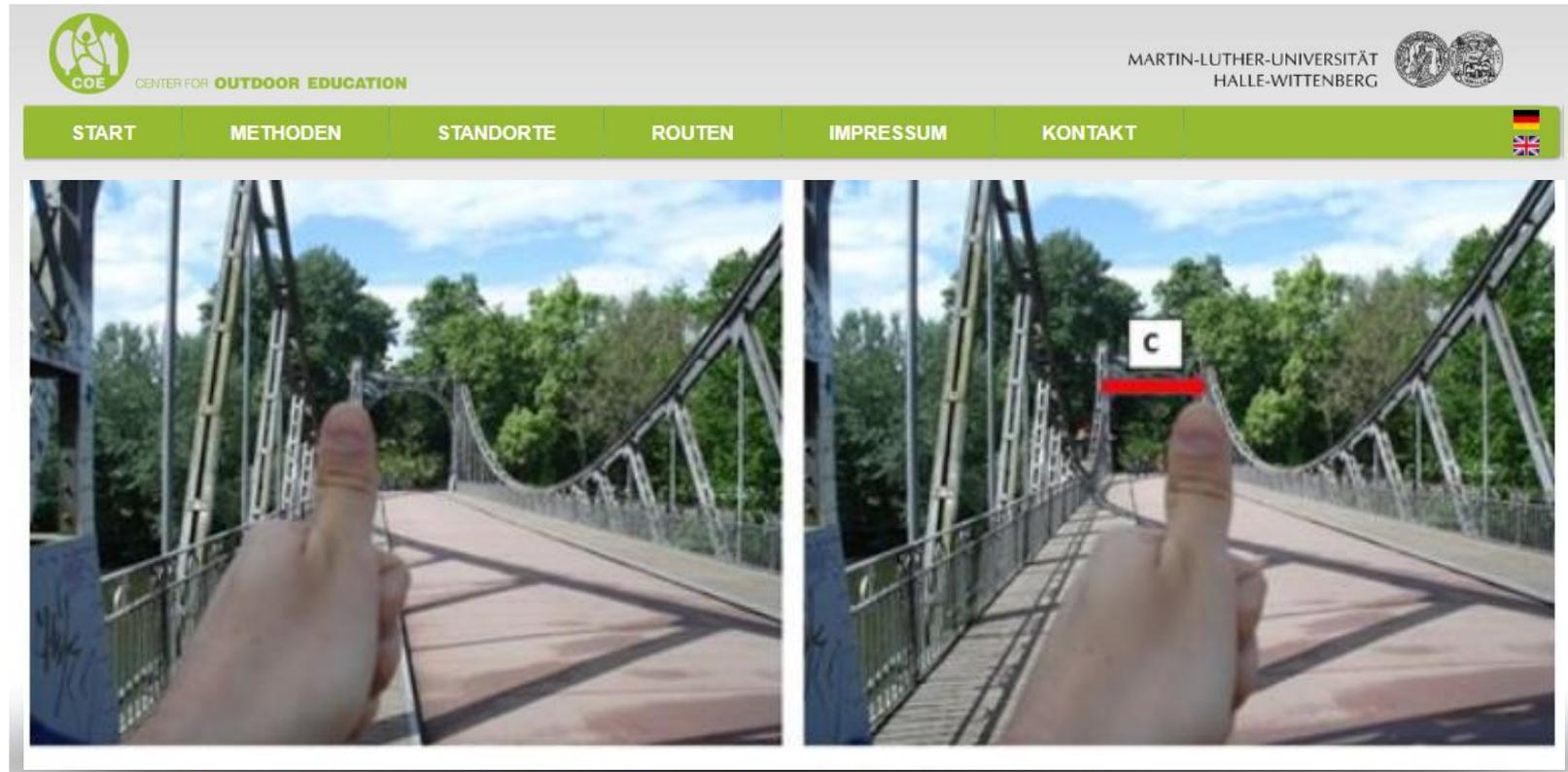
Mobile Learning



Outdoor-Education-Database

Collection and documentation of field methods on the level of school knowledge

Mobile Learning



Students prepared an internet-based database offering a comprehensive selection of instructions and teaching materials for use inside and outside the classroom

<https://paradigmaps.geo.uni-halle.de/outdoorededucation/>

Innovationsprojekt „Studium multimedial“



“Bund-Länder-Programm” for better study conditions and more quality in teaching.

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The author is responsible for the content of this publication.



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