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Moving towards H5P

Michael Kerres ▪ Workshop am Learning Lab ▪ 31.03.17



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SCORM TinCan -> xAPI H5P

Re-Usability

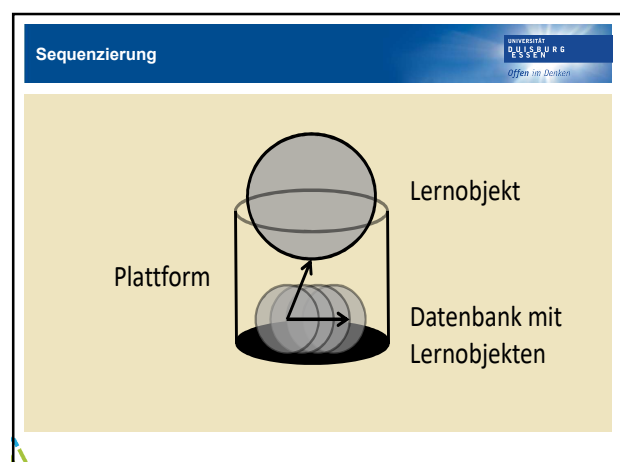
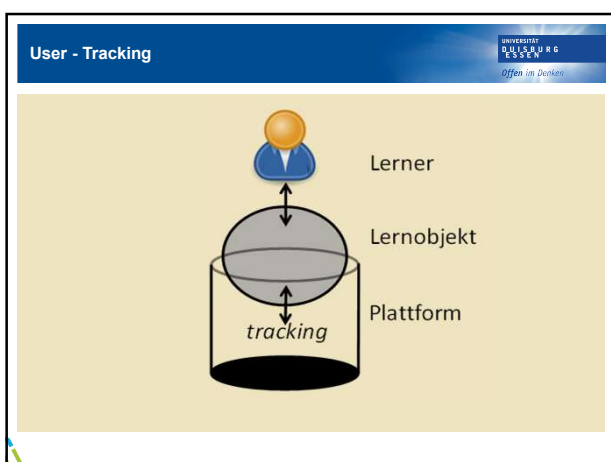
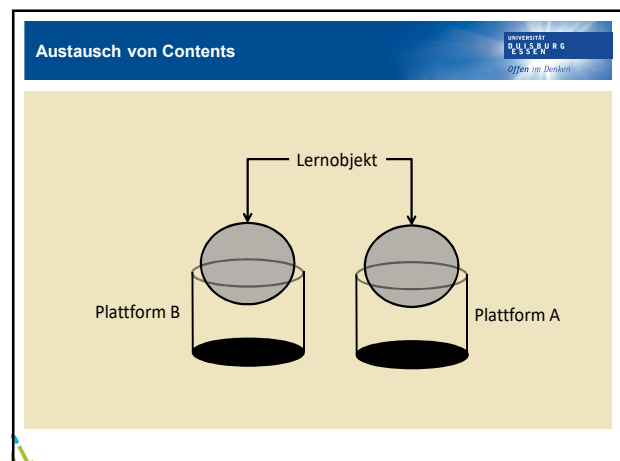
SCORM-Standard (2005)
Re-Usability of Content

- Lerninhalte austauschen
- Lernerdaten übergeben
- Lernpfade erzeugen

ZIP-Datei mit allen Inhalten
Learning Lab -> SCORM für Drupal

The SCORM standard is all about tracking the status of big e-learning modules, with the e-learning module and the learner record usually residing in a single LMS or Learning Management System.

<http://www.adlnet.gov/adl-research/performance-tracking-analysis/experience-api/xapi-background-history/>



xAPI

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EXPERIENCE
API

LEARNING IS HAPPENING EVERYWHERE. PEOPLE LEARN IN MANY PLACES, DOING MANY THINGS.

THE LEARNER

THE TOOLS

THE ACTIVITIES

COLLECT THE EXPERIENCES THAT MATTER.

THE API RECORDS ACTIVITIES AND RELATES DATA POINTS.

- QUANTIFIABLE
- SHARABLE
- TRACKABLE

<http://www.adlnet.gov/adl-research/performance-tracking-analysis/experience-api/xapi-background-history/>

xAPI

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EXPERIENCE
API

Project TinCan -> Experience API (xAPI)

- beliebige User-Aktivitäten erfassen
- sammeln im „Learning Record Store“ (LRS)
- LMS u.a. liefern Daten an LRS
- Sponsor: ADL / DoD / US Gov

Focus has moved away from e-learning modules towards **learning activities**, be these offline or online, tutor-led or collaborative, real-world or virtual, what matters is that some remote system with knowledge of that activity can send a simple statement to a central **learner record store (LRS)** containing details of what the learner did. xAPI lets you capture (big) data on human performance, along with associated instructional content or performance context information. xAPI applies human (and machine) readable “activity streams” to tracking data and provides sub-APIs to access and store information about state and content.

<http://www.adlnet.gov/adl-research/performance-tracking-analysis/experience-api/xapi-background-history/>

H5P

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- Ziel: Austausch von interaktiven (editierbaren) Elementen
- kleine Einheiten, keine Kurse
- basierend auf HTML5, für Drupal, Moodle, Wordpress
- Impact für OER
- Sponsor: Norway NDL, Joubel (> Drupal)

<http://www.adlnet.gov/adl-research/performance-tracking-analysis/experience-api/xapi-background-history/>

LTI: Learning Tools Interoperability

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Benefits of IMS Learning Tools Interoperability™ (LTI™)

DEVELOP

Learning application developer

APP

Launch

Grades

Enrollments

Save Data

UTILIZE

Learners

Teachers

LMS

Save Data

Saved data

DEPLOY

Portal or learning platform administrator

www.celtic-project.org

<https://www.imsglobal.org/activity/learning-tools-interoperability>

IMS GLOBAL Learning Consortium

IMS: LTI & co.

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Learning environments

Learning Management System (LMS)

Portals

MOOCs

Gaming/simulation environments

Learning tools or content providing tool hosting (e.g., e-book platforms)

Student Information System (SIS)

Timetabling/scheduling

Other enterprise systems related to learning

Learning tools/content

Course content

Ancillary content

E-textbooks

Adaptive tutors

Collaboration tools

Authoring tools

Social learning apps

Badging tools

Specialty course tools

Enterprise systems

Other traditionally isolated academic applications

E-portfolio

Classroom/lecture capture

Assessment systems

Library resources

Digital video

Open standards & services:

- Content exchange
- Seamless, multipoint deep integration
- User authorization & authentication
- Educational context info
- Outcomes/usage data

<http://er.educause.edu/articles/2013/10/a-new-architecture-for-learning>

IMS GLOBAL Learning Consortium

Unterscheidung

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- Prüfungsaufgaben testen Lernergebnis
- Lernaufgaben ermöglichen Lernen