Authoring for Re-Use
in
Outcome-oriented Learning Scenarios
Roland Klemke, Birgit Schmitz
Se@m Workshop
Barcelona 27.-28.09.2010
What is the Situation?
Content is available in vast amounts

In Outcome-oriented, personalised learning scenarios, content is needed in tailorable formats
Quality?
Accessibility?

Granularity?

Ability to create something new?

Image © Elliot Margolies, E>mar, flickr.com
What are our goals?
Simplify Re-Use based Authoring

Collect & Organise

Create & Publish

Use & Re-Use

Image © thetruthabout, flickr.com
Background: ICOPPER Project

- Interoperable Content for Performance in a Competency-driven Society – Adopting standards for European Educational Content

- Goal: improve interoperability and reuse of e-learning across Europe:
  - analysing best practices
  - developing overall reference model including a variety of existing standards and specifications (e.g. IEEE LOM, IMS CP, IMS LD, ADL SCORM, IMS-QTI, RDCEO, HR XML, OAI PMH, ….)
  - Open iCOPPER content space

- 2008-2011
- Sponsored by e-contentplus
Architecture: Re-use-based authoring prototype

- A standards-based prototype for
  1. Collection of media
  2. Authoring
  3. Preparation for re-use
1. Collaborative collection and organisation of multi-media assets

- The MediaLibrary Prototype
Collection of Media Assets

Pull-Approach: Active Collection

Push-Approach: Publishing Interface
The MediaLibrary Prototype
Create or Upload a Media Asset
The MediaLibrary Prototype
Organising and Tagging a Media Asset
The MediaLibrary Prototype
Search and Publish

Published Items are Websevvice Accessable (OAI-PMH Target)
Asset Management Process

1. Create or upload Asset
2. Organise Assets
3. Add Metadata
4. Publish Metadata

 CELSTEC
celstec.org
2. Collaborative creation of learning units

- The authoring environment author42.ICOPER
Tooling to Create ...
... and Publish
Learning Content Authoring Tool
author42.ICOPER

Include in Production
Process: Collaborative creation of learning units
3. Preparation for Re-use

- Linking to the Open ICOPER Content Space (OICS)
Publish Metadata to OICS Repository
OICS offers search services to Retrieve contents again
Process: Preparation for Re-use
Conclusion and Outlook
... and the functionality needs to be completed
Thank you!

Roland Klemke
Center of Learning Sciences and Technology
Open Universiteit Nederland

Birgit Schmitz
Humance AG