

Multimedia Production with a Content HUB Environment.

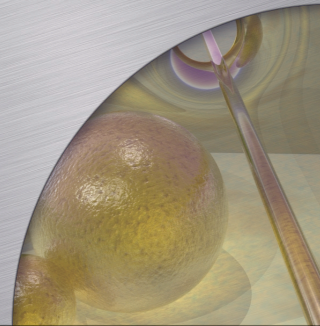
Media Engineering for Mobile Computing Courseware.

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IDAACS • 2007-09-07

BACKGROUND

1



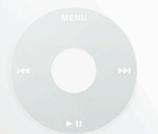
Content HUB

2



APPLICATION

3



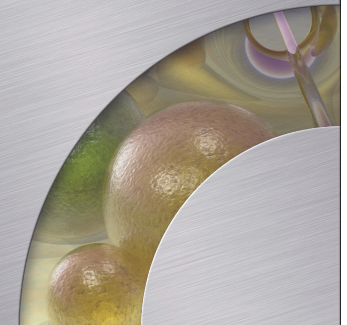
MEDIA REPOSITORY

4



BACKGROUND

1



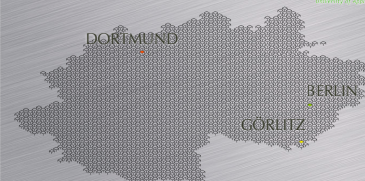
BACKGROUND

- Research and Teaching in Computer and Information Sciences, e.g. Media Content Production and -Management
- Project Group »vbc.studiolab«
TU Univ. of Technology +
FHTW Univ. of Applied Sciences
- Content-Development for
MBI-/CS-Courses



IKAROS

fhtw
Fachhochschule für Technik
und Wirtschaft Berlin
University of Applied Sciences



<http://www.IKAROS-PROJEKT.de>



Virtual Global University



vbc.studiolab



VGI Virtual Global University
School of Business Informatics
www.vg-u.de





application fields

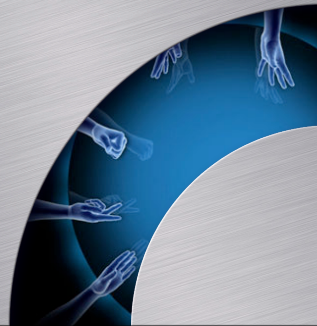
- analyze social network dynamics
- map electronic communication
- search expert network maps
- find hidden communities
- find important actors
- observe merging networks

visit: www.commetrix.de

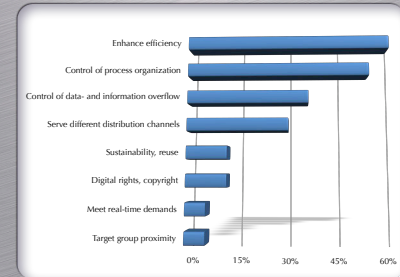
<http://www.commetrix.de>

CONTENT HUB

2



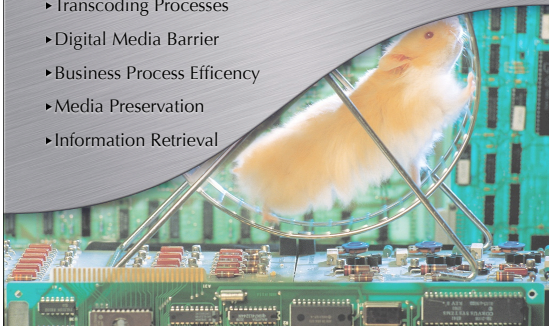
Challenges in Media Production sector



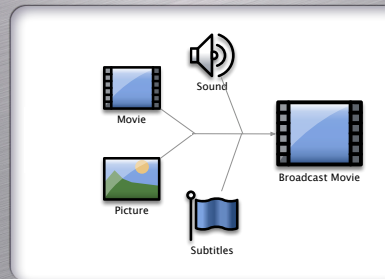
ILM-Study TUB/EHTW Berlin 2/2007

Media Content Transformation

- Transcoding Processes
- Digital Media Barrier
- Business Process Efficiency
- Media Preservation
- Information Retrieval

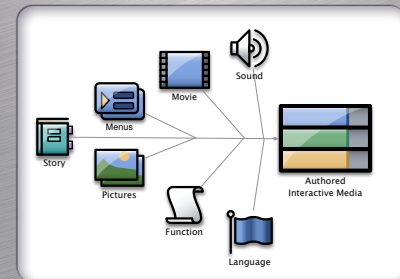


Demarcation



Broadcast Movie Production

Demarcation



Interactive Media Production

Research and development focus

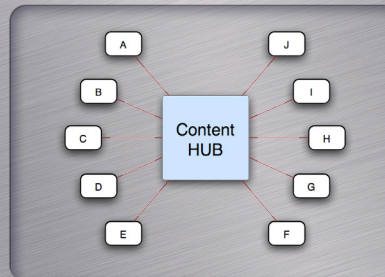
Concept of Generic Content Transformation (GCT)



► Most of multimedia content from authoring systems follows similar principles

1. Text and media **assets** are stored **frame based** in connection with **vector representation**;
2. A limited amount of **functions** for navigation and **interaction** is used;
3. Time-based media assets are embedded with similar control functions;
4. Other **functionality** is mostly represented in **textual code structures**, stored as software routines like scripts

Vision: Generic Transformation for Media Content

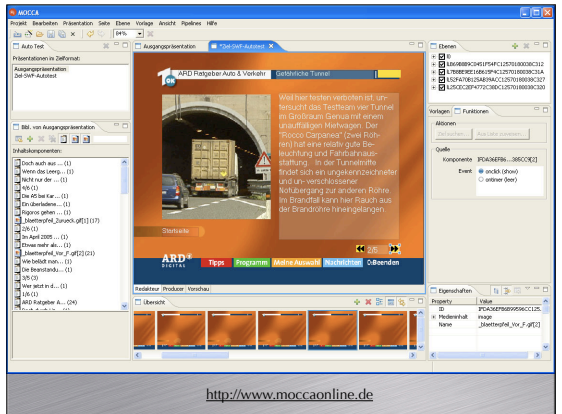


APPLICATION

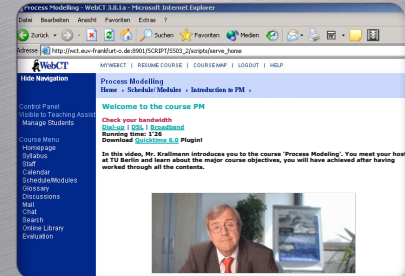
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GCT-Project 1: MHP Transformer

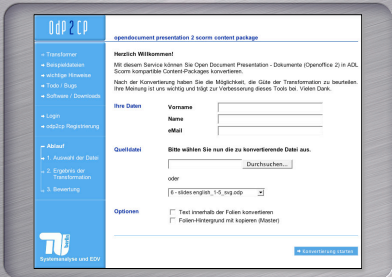


GCT-Project 2: Rapid SCORM production



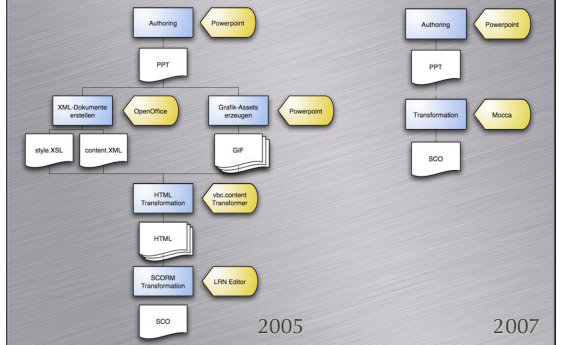
resulting course presentation

ODP online Transformer

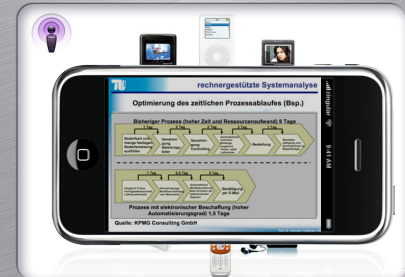


<http://www.mccaonline.de>

SCORM production process

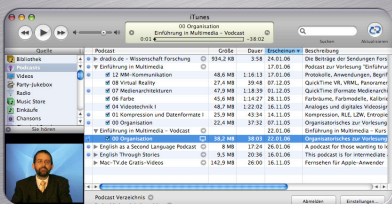


GCT-Project 3: Mobile Learning

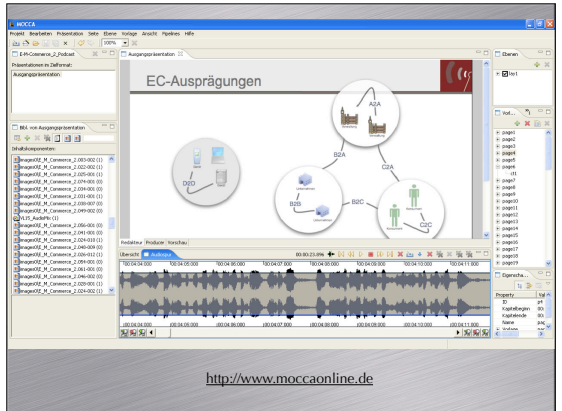


Learning on the go

GCT-Project 3: Mobile Learning



Podcast as additional Learning Media Channel



Podcast Production process

