



Capabilities and the challenges of the use of special scanning technology for practical training and research - an abridged report

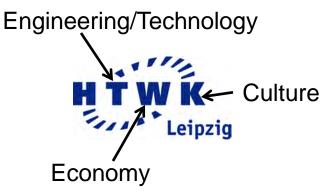


- about 6000 Students
- Faculty of Media: over 1000 Students
- Faculties:
 - Applied Social Science
 - Business Administration
 - Civil Engineering & Architecture
 - Computer Science, Mathematics & Natural Science
 - Electrical Engineering & Information Technology
 - Mechanical & Energy Engineering

Media











| | Library and Information Science |
|--|-------------------------------------|
| AND AND | Booktrade and Publishing Management |
| | Applied Museology (Museum Studies) |
| of an annual of the state of th | Publishing Technology |
| personi u | Media Technology |
| () () () () () () () () () () | Television |
| | Printing Technology |
| | Packaging Technology |



Library and Information Science (since 2010)

Library and Information Science

Publishing and Media Trade Management (since 2010)

> Booktrade and Publishing Management



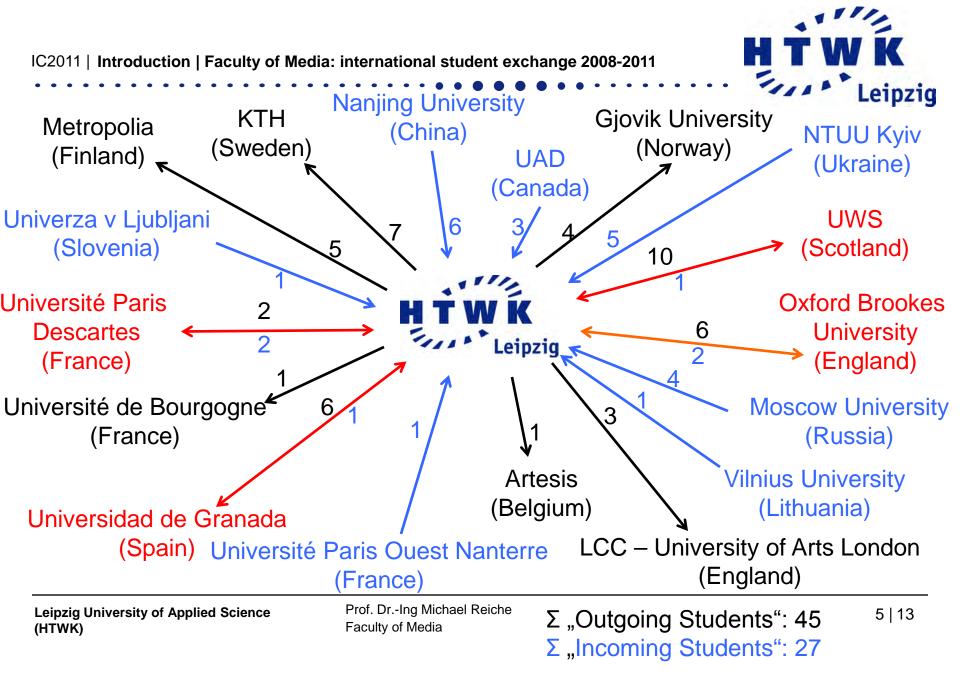
Media management (starting in 2012)

Publishing Technology

Media Technology Printing and
Packaging
Technology
(starting in 2012)

Printing Technology

Packaging Technology

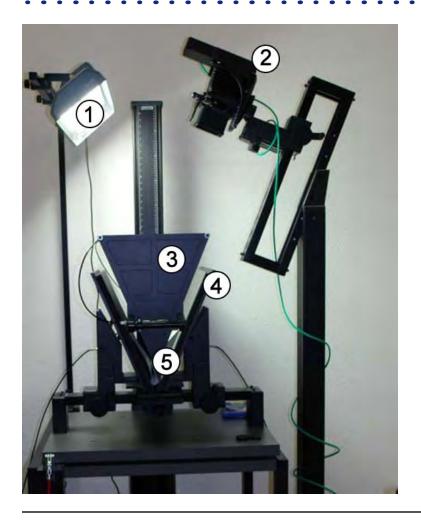






- Typesetter by profession
- Studies in engineering at Chemnitz Technical University
- Project engineer for logistics systems
- SAP consultant
- Scientific staff at Institut for Print and Media Technology at Chemnitz Technical University
- Professor at Leipzig University of Applied Science (HTWK) responsible for training in prepress technology
- Dean for student affairs for students of publishing technology





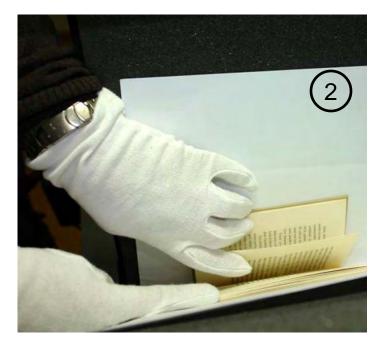
- 1 Lighting System
- (2) Camera System
 - Scanning camera back
 - One-shot-camera
- (3) V-shaped mirror-glass-construction
- 4 Bookstand
- (5) Book
- 6 Processing System







1) Setting-up the system



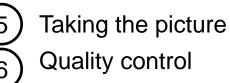


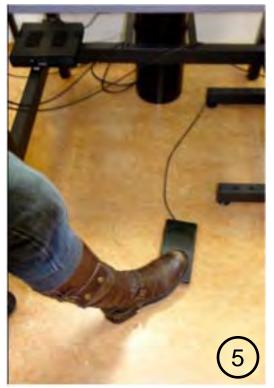
- (2) Inserting the book / turning the pages
- (3) Lowering the V-shaped mirror-glass-construction



4 Clamping the pages, bring them to the photographic plane





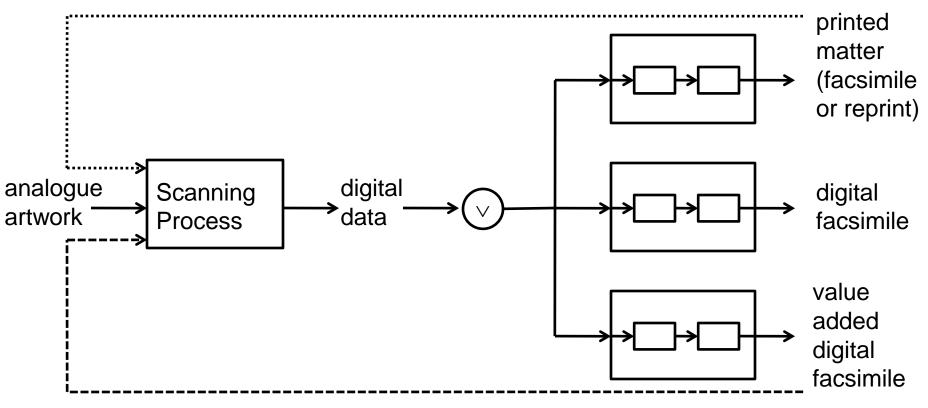




Leipzig University of Applied Science (HTWK)

Prof. Dr.-Ing Michael Reiche Faculty of Media





Intented properties of the final product define the parameters at the Input side of the process



Training goals:

- Development of abilities and skills in using scanning technologies
- Getting a feeling for the effort and the time consumption of the process (and the methods to measure them..)
- Quality opinion, patience
- Understanding processes
- Defining Workflows according to the properties of the final product
- Interdisziplinary cooperation

Applicable for (nearly) all courses:













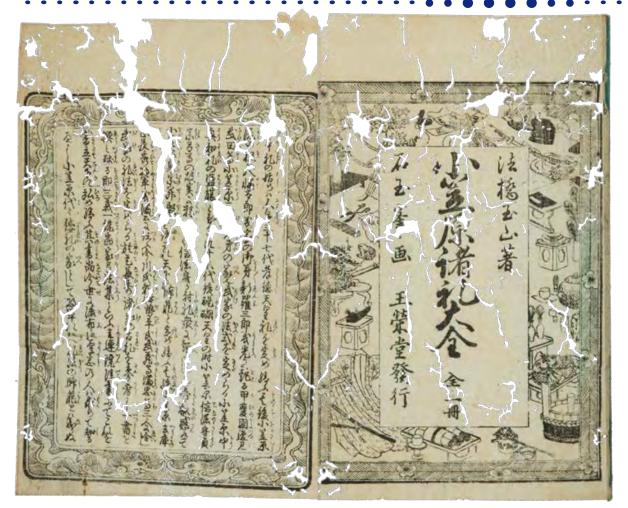




- Cooperation with the famous Grassi Museum of Applied Arts
- Digitalisation of very unique Japanese xylographic books from the 18th and 19th century
- Intended results:
 - General:
 - making the (digital) books accessible to a wider audience
 - In the first step:
 - digital facsimile
 - browsable PDF
 - In the second step (just ongoing)
 - scientific editing
 - added value: transcription, translation
 - preparation for Ebook-readers

IC2011 | Limits of the Application





- Extremely pre-demaged books
- Extremely complicated preparation of the book before scanning
- High risk of demage during the process



 Contact-free scanning is necessary