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ENRICH eContentPlus project: from local to international or Towards a European Digital Library of Manuscripts

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ENRICH

eContentPlus project: from local to
international

or

Towards a European Digital Library of Manuscripts

Adolf Knoll
**National Library of the Czech
Republic**

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Programme

- How we started and our main principles
- Manuscriptorium Digital Library
- ENRICH project
- Tools



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Before ENRICH

- 1992 – starting to digitize with AiP Beroun
- Until 1995 – first UNESCO Memory of the World pilot projects
- 1996 – digitization centre for manuscripts
- 2000 – digitization of microfilm (periodicals)
- 2000 – national digitization programmes
- 2003/2004 – Manuscriptorium and Kramerius Digital libraries

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Cultural heritage

- Lack of national strategy today
- Documentary heritage: strategy available as well as whole digitization life cycle built up
- Museum objects: digitization in museums and galleries rather standardized as to data production
- Others: partial, dispersed activities
- 2008: intend to map all CH sectors



Documentary heritage

- Concept of National Digital Library with the core consisting of:
 - Manuscriptorium Digital Library (pre-1800)
 - Kramerius Digital Library (post-1800)
 - Web Archive
 - +
 - Trusted digital repository



Metadata standards

- Production standards as public schemas for:
 - Manuscripts and old printed books
 - Digitized periodicals
 - Digitized monographs
- Available from <http://digit.nkp.cz>
- Specific digital library standards for:
 - Internal metadata management
 - External communication



Accepted data standards

- Access:
 - Manuscriptorium:
 - formats recommended by the web consortium (JPEG, PNG, GIF)
 - MrSID for maps (may change in the future)
 - Kramerius:
 - DjVu
- Archival storage
 - Recommended JPEG, but in principle responsibility of data owner



Virtual research environment

- Being built in Manuscriptorium
- Manuscriptorium is:
 - Shared catalogue
 - Digital library in which the documents are represented by:
 - Images
 - Full texts
 - Other binary data
 - Digital content aggregator



Underlying principles

- Philosophy of the compound document since 1995
- SGML family, later TEI and XML:
 - Descriptive metadata: TEI MASTER schema
 - Technical metadata: NISO Dictionary for Still Digital Images + DIG35 schema
 - Elementary page description
- Complex Digital Document (METS principles) internally



Manuscriptorium

National Library of the
Czech Republic

AiP Beroun Ltd.

Thinking and working together since 1992

**Research and technology development
(jointly)**

Content building (NL)

Manuscriptorium operation and tools (AiP)

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Results



- More UNESCO Memory of the World pilot projects in 1990s
- UNESCO digitization recommendations in 1999
- Training courses for Open Society Fund (Mongolia, Kazakhstan, Ukraine, Moldova, Lithuania, Serbia) and in Latvia (twice)
- eLearning materials for FAO and UNESCO
- UNESCO Memory of the World 2005 prize award (1st award ever)
- Largest TEL digital library of manuscripts



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- eContentPlus project (Dec 2007 – Nov 2009)
- 18 partners
 - Project coordination (National Library, CZ)
 - Technical coordination (AiP Beroun, CZ)
 - Administrative coordination (CrossCzech, CZ)
- Access to more than 5 million digitized pages and other data from ca. 60 – 70 institutions in Europe (world)

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Main goal

- Create seamless access to distributed information about manuscripts and rare old printed books in Europe on the Manuscriptorium platform
- Connect digital libraries, take aboard those who do not operate them, and make them have them in Manuscriptorium in their language and their virtual interface
- All we implement should work



ENRICH Partners

The workpackage leaders are:

- National Library of the Czech Republic, Prague
- AiP Beroun, s r.o., Beroun, Czech Republic
- Oxford University Computing Services, Oxford, United Kingdom
- Centro per la comunicazione e l'integrazione dei media, Florence, Italy
- SYSTRAN S.A., Paris, France
- Institute of mathematics and informatics, Vilnius, Lithuania
- Biblioteca Nacional de España, Madrid, Spain



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Partners



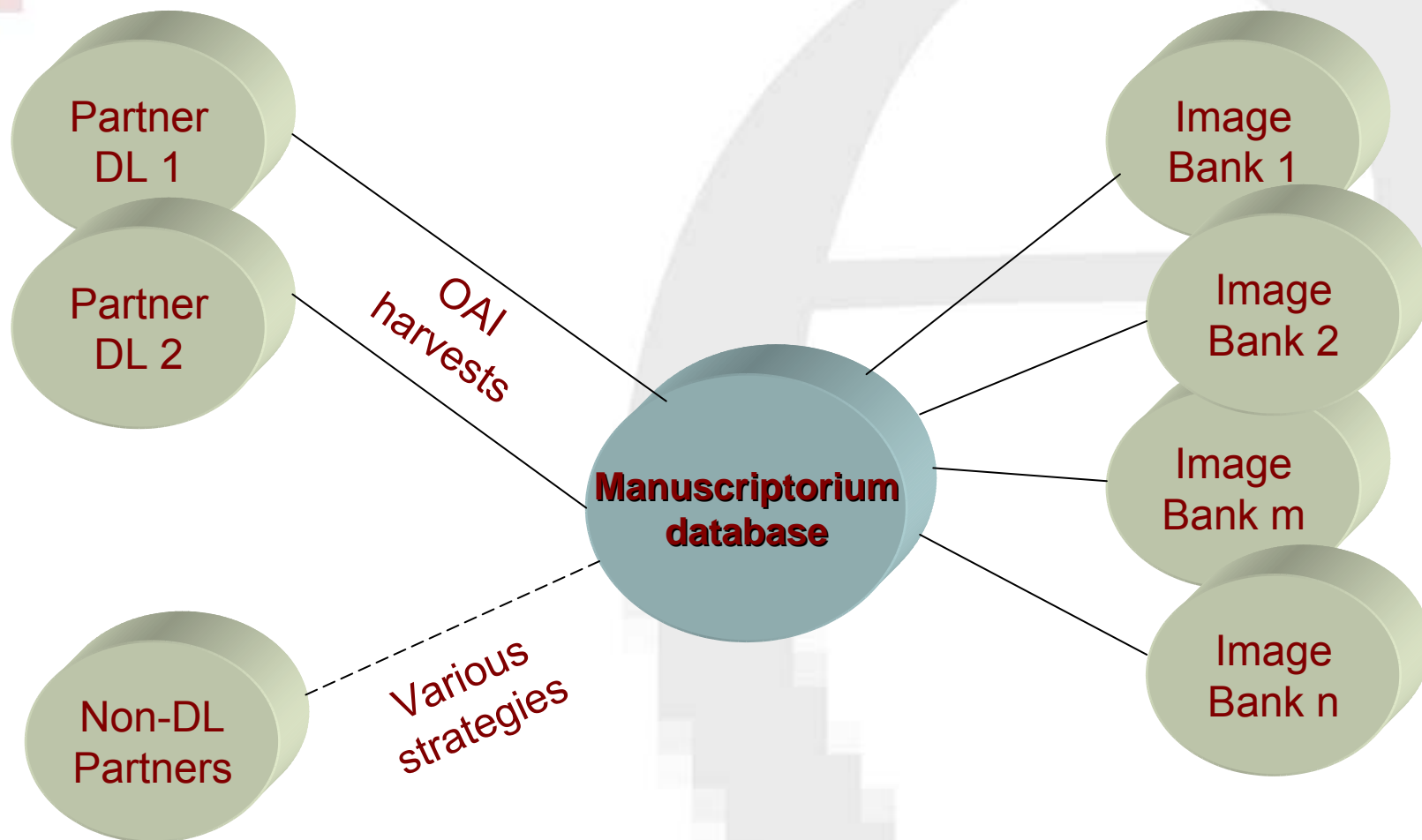
The other partners are:

- Cross Czech, a.s., Prague, Czech Republic
- Københavns Universitet - Nordisk Forskningsinstitut, Copenhagen, Denmark
- Biblioteca Nazionale Centrale di Firenze, Florence, Italy
- University Library Vilnius, Vilnius, Lithuania
- University Library Wroclaw, Wroclaw, Poland
- Stofnun Árna Magnússonar í íslenskum fræðum, Reykjavík, Iceland
- Computer Science for the Humanities - Universität zu Köln, Cologne, Germany
- St. Pölten Diocese Archive, St. Pölten, Austria
- The National and University Library of Iceland, Reykjavík, Iceland
- The Budapest University of Technology and Economics, Budapest, Hungary
- Poznań Supercomputing and Networking Center, Poznań, Poland



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Providing seamless access to distributed resources



Data is called under the Manuscriptorium interface



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WP2

Preparation for system implementation and content enhancement

- Survey of availability – actualize DoW (what to aggregate?)
- Workshop of technical and content partners (how to interconnect?)
- Preparing technical conditions for inter-system communication
- Definition of standards and development of metadata

WP leader: NKP (CZ)



WP3

Standardization of shared metadata

- Conversion between TEI P4 and TEI P5
- Implementation of the OAI harvester
- Internal METS format
- Improvement and generalization of Unicode

WP leader: OUCS (GB)



Solutions

Bibliographic

Description:

- TEI approaches
 - P4
 - P5
- MARC approaches
- Other formats
- None

Structural Map:


- Should point to stable repositories
- Href values should be permanent

Any good schema complying with such requirements: existing DTD, TEI5, or METS containers



Aggregating contents

- TEI approaches and MARC approaches should exist in parallel
- We should be able to:
 - index them
 - transform them for display
- For new Manuscriptorium authoring the metadata granularity should enable both TEI and MARC outputs
- If there are problems, then in structural maps (libraries use library systems and often have strange structural solutions)



WP4

User personalization

- Analysis of end-user needs
- Creation of individual collections for end-users
- Creation of virtual documents from digital objects across Manuscriptorium
- Find out and implement typical tools to meet search needs
- Deep search implementation

WP leader: MICF (IT)



WP5

Personalization for contributors

- On-line structuring tools
- Management of large external data sets
- Pilot implementation of large data sets
- Integration of external data

WP leader: AIP (CZ)

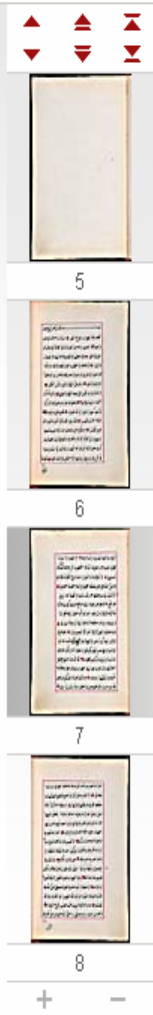
What we have: M-TOOL + Manuscriptorium for Candidates

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Univerzitná knižnica Bratislava
TF 125 - 7
(11 / 58)

Remote image
Data bank (in Slovakia)



OAI harvest of profiles with URL references to images on remote servers



Tools for newcomers

- M-TOOL for structuring documents, now version 1.2 – off-line
- M-TOOL enhanced – on-line
- + work in Manuscriptorium for Candidates
- + half-way: ENRICH clone
- Manuscriptorium



WP6

Multilingual and sophisticated access

- Multilingual access development
- Translation stylesheet design and use
- VICODI implementation

WP leader: SYS (FR)

Manuscriptorium interface and all dialogues should talk more languages

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WP7

Evaluation, testing, and validation

- Defining evaluation strategy
- Tests and evaluation of accessibility, usability and adaptability of developed applications

WP leader: IMI (LT)



WP8

Dissemination and exploitation

- Dissemination plan
- Publicity materials
- Web site update and maintenance
- Exploitation plan
- Final conference

WP leader: BNE (ES)

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Goal



- Do all we have planned
- Get new associated partners
- Cover as much as we can

- Work in our countries and regions to explain our work and widen the ENRICH-based Manuscriptorium

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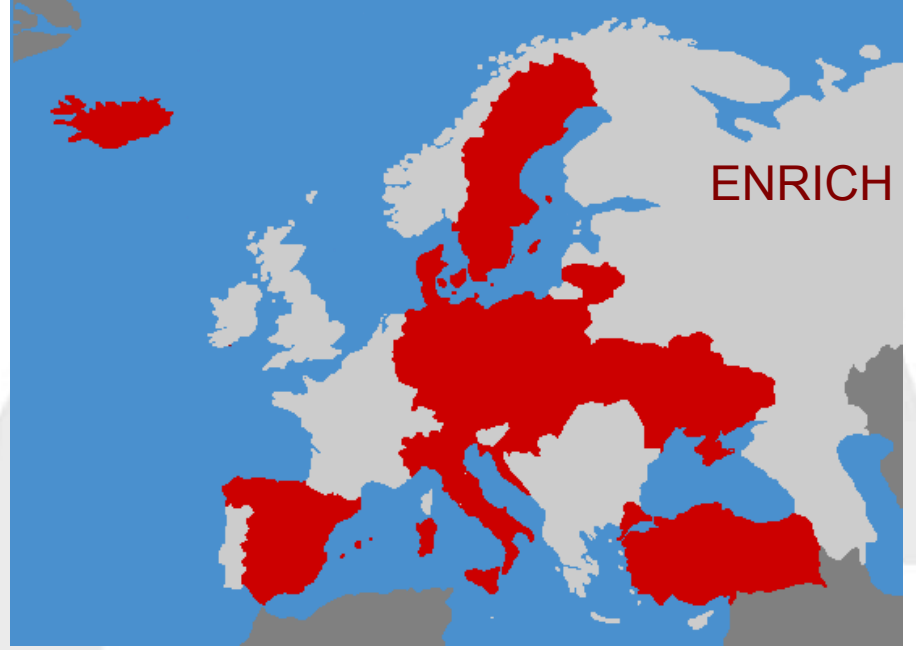
Good examples to follow

Fast involvement

- National Library of Romania
- Heidelberg University Library
-

Getting new associated institutions in partner countries

- Promotional activities of Hungarian and Austrian partners, and



ENRICH content development





To know more:

- ENRICH website:
 - <http://enrich.manuscriptorium.com>
- Manuscriptorium Digital Library
 - <http://www.manuscriptorium.eu>