BERNSTEIN – THE MEMORY OF PAPERS
Collaborative systems for paper expertise and history
Project summary

• Create an integrated European digital environment for expertise of paper
• Interlink all existing European databases of paper reproductions and create standards for paper description (watermarks, paper features, metadata)
• Enrich the data by contextual sources (bibliography, GIS data, etc.)
• Generate the conceptual and technical infrastructure to enable the access to paper expertise to the broadest range of users, accommodating multiple usage scenarios (historians, cultural heritage conservators, art market, forensic science, security research, papermaking industry)
• Provide a multilingual interface to these digital resources

• Budget: 3.2 Mill. EURO, 1.6 Mill. funding by EU
• Runtime: 30 months
• Project begin: September 1, 2006
Why the name ‘Bernstein’

Bernstein stands for ‘amber’ in German, which is famous for the insects from times far ago it traps. We can see them by raising the resin between our eyes and a source of light, a movement identical to that of the historian who looks for traces of the past revealed to him in the structural features of papers. Hence the name of the consortium and the metaphorical title of the project.
Consortium

1. Austrian Academy of Sciences, Vienna, Austria (OEAW, Coordinator)
2. Archives of the State of Baden-Württemberg, Stuttgart, Germany (LABW)
3. University of Technology, Institute for Information Systems and Computer Media, Graz, Austria (TUG)
4. Laboratory for Occidental Medieval Studies in Paris (C.N.R.S. - UMR 8589), Paris, France (LAMOP)
5. The National Library of Germany, Leipzig, Germany (DDB)
6. Dutch University Institute for Art History, Florence, Italy (NIKI)
7. Delft University of Technology, Delft, Netherlands (DUT)
9. Liverpool University, United Kingdom (LU)
History

- FWF projects
- Ost-West-Programm
- INTAS project (2001-2004, Austria, Russia, Netherlands)
- IST project application (rejected)
- eContentPlus (successful)
Evaluation

1. Contribution to the aims of the action for the specific target area
   *(Threshold 5/10 ; Weight 4)*

2. Approach and working arrangements *(Threshold 5/10 ; Weight 2)*
   - management
   - workplan
   - deliverables
   - sustainability and post-project delivery
   - IPR issues
   - public dissemination and marketing
   - commitment to and resourcing of the evaluation work

3. Quality of the resources *(Threshold 5/10 ; Weight 2)*

4. Multilingual and multicultural aspects *(Threshold 5/10 ; Weight 2)*
• **Indicators**
  – Does the final product offer integrated access to all resources?
  – Does it provide paper description standards and multi-lingual support?
  – Does it allow paper authentication and identification based on feature measurement in images?

• **Milestones**
  – Choice of integration model (m 3);
  – Establishment of standards (version 1: m10 & v2: m22);

• **Deliverables**
  – Watermarks standard v.1 (Month 11)
  – Integrated bibliography v.1 (Month 15)
  – On-line measurement tools
<table>
<thead>
<tr>
<th>No.</th>
<th>Product</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Integrated workspace</td>
<td>Dutch, English, French, German, Italian, Russian and Spanish</td>
</tr>
<tr>
<td>2.</td>
<td>Databases</td>
<td><em>idem</em></td>
</tr>
<tr>
<td>3.</td>
<td>Software</td>
<td><em>idem</em></td>
</tr>
<tr>
<td></td>
<td>(A&amp;I, GIS, bibliography)</td>
<td></td>
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<tr>
<td>4.</td>
<td>Documentation</td>
<td><em>idem</em></td>
</tr>
<tr>
<td></td>
<td>(user guide)</td>
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<tr>
<td>5.</td>
<td>Documentation</td>
<td>English</td>
</tr>
<tr>
<td></td>
<td>(developer manual)</td>
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<tr>
<td>6.</td>
<td>Dissemination kit</td>
<td>Dutch, English, French, German, Italian, Russian and Spanish</td>
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<tr>
<td>7.</td>
<td>Media releases</td>
<td>National languages</td>
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## Work packages

<table>
<thead>
<tr>
<th>No.</th>
<th>Work-package title</th>
<th>WP leader</th>
<th>P-month</th>
<th>Start/End</th>
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<tbody>
<tr>
<td>1.</td>
<td>Integrated workspace</td>
<td>3 : IICM</td>
<td>158</td>
<td>0 / 29</td>
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<tr>
<td>2.</td>
<td>Enhancing content usability</td>
<td>2 : LABW</td>
<td>139</td>
<td>0 / 28</td>
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<td>3.</td>
<td>Infrastructure for paper expertise</td>
<td>7 : DUT</td>
<td>48</td>
<td>0 / 28</td>
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<td>4.</td>
<td>Contextual resources for paper history</td>
<td>4 : LAMOP</td>
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<td>5.</td>
<td>Assessment &amp; Evaluation</td>
<td>6 : NIKI</td>
<td>19</td>
<td>0 / 29</td>
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<td>6.</td>
<td>Accessibility, Diss. &amp; Sustainability</td>
<td>1 : OEAW</td>
<td>40</td>
<td>0 / 29</td>
</tr>
<tr>
<td>7.</td>
<td>Project management</td>
<td>1 : OEAW</td>
<td>30</td>
<td>0 / 29</td>
</tr>
</tbody>
</table>

Total 514
Project management

- Guarantee the scheduled progress and the quality of work as described in Annex I
- Bring the products to the potential users, create a climate of interest and generate a decisive impact
• http://www.bernstein.oeaw.ac.at
  (Webpage ist noch im Aufbau)

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