Towards a Web of Culture and Science

Present crisis of the web

- Lack of Cultural Heritage content on the Web
- Lack of Open Access
- Lack of Longevity
- Lack of Interfaces
- Lack of infrastructure
- Lack of Cultural Techniques
- Lack of Instruments
- Lack of Interoperability
- Lack of Transparency

A future web of culture

- will have to preserve and offer free access to the cultural heritage of mankind against ruthless pragmatism of technical and economic progress
- will have to provide public facilities and equal opportunities for computer-assisted training and education
- will have to encourage the free exchange of information and arguments across still existing social, political, and religious boundaries
- will have to guarantee an enduring memory of mankind comprising a representation of human history in a new form
- will have to develop mechanisms for self-organisation and for the evaluation of the information it makes available

an open access initiative
initially sponsored by the Max Planck Society,
the European Commission and Switzerland

Max Planck Institute for the History of Science
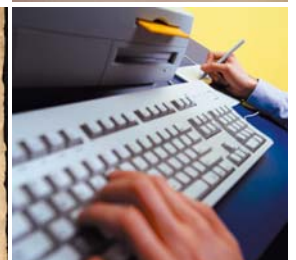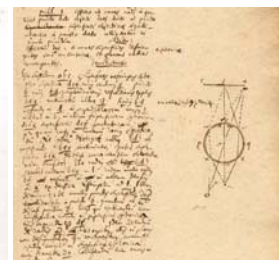Boltzmannstr. 22, D-14195 Berlin   SR

ECHO
EUROPEAN CULTURAL HERITAGE ONLINE

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ECHO
EUROPEAN CULTURAL HERITAGE ONLINE

MAX PLANCK INSTITUTE
FOR THE HISTORY OF SCIENCE

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European Cultural Heritage Online (ECHO)
Open Access Initiative to create an IT-based Infrastructure for the Humanities in Europe

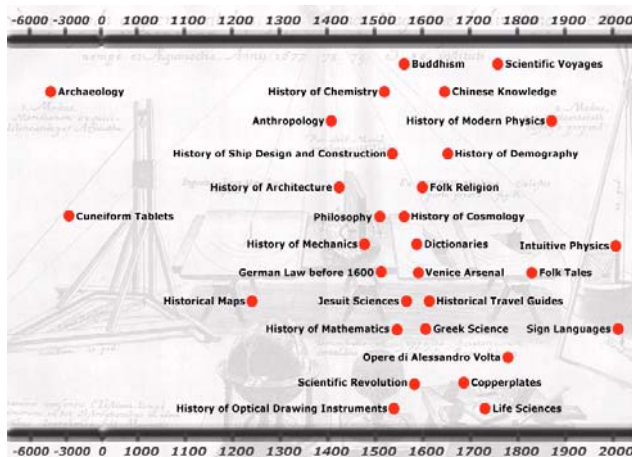|	
Network of active knowledge weavers:	50 scientific and cultural institutions worldwide
Funding:	Start Phase: € 1.6 Mio by the EU, since 2004 Max Planck Society and cooperation partners
Outreach:	http://www.echo-project.eu
Seed collections:	55 collections and projects
Disciplines:	archaeology, religion studies, history of science, oriental studies, history of art and architecture, philosophy, anthropology, literature, psychology, language studies, botanics, geography, history of shipbuilding, history of demography, history of natural sciences, jesuit science, cosmology, philosophy, geography
Technology development:	development of open source tools (XML-based language technology for annotation, morphological analysis and dictionary access, image server, annotation tools for multimedia)
Representations of cultural heritage made publicly available:	ca. 175,600 documents; ca. 138.000 high resolution images of historical and cultural source documents and artefacts; ca. 57,000 full-text page transcriptions in several languages; 189,000 records in databases; 240 video sequences

Cultural Heritage made publicly available in ECHO (Seed Collections)

- Anthropology
- Archaeology
- Buddhist Text Corpora
- Chinese Mechanical Knowledge
- Copperplates
- The Cuneiform Digital Library Initiative
- Dictionaries
- Folk Religion
- Folk Tales
- German Law before 1600
- Greek Science 1600-1821
- Historical Maps
- Historical Travel Guides
- History of Architecture
- History of Chemistry
- History of Cosmology
- History of Demography
- History of Electricity
- History of Mechanics
- History of Optical Drawing Devices
- History of Shipbuilding
- Intuitive Physical Knowledge of Children
- Jesiut Sciences
- Experimentalization of Life
- Philosophy
- The Relativity Revolution
- The Scientific Revolution
- Sources on Scientific Voyages
- European Sign Languages
- The Collection of the Venice Arsenal

Network of Knowledge Weavers (excerpt)

China: Chinese Academy of Sciences

France: CNRS, Ecole des Hautes Etudes en Sciences Sociales, Université Paris Sorbonne, Catholic Institute of Paris, Henri Poincaré Archive

Germany: Bayerische Staatsbibliothek München, Gottfried Wilhelm Leibniz Bibliothek–Niedersächsische Landesbibliothek Hannover, Niedersächsische Staats- und Universitätsbibliothek Göttingen, Herzog August Bibliothek Wolfenbüttel, Universität Lüneburg, MPI for Demographic Research, MPI for European Legal History, MPI for the History of Science, Freie Universität Berlin, Berlin-Brandenburgische Akademie der Wissenschaften

Greece: University of Athens

Hungary: Hungarian Academy of Science, Budapest, Museum of Ethnography

Israel: Jewish National and University Library of Jerusalem, Tel Aviv University

Italy: Archivio di Stato Venezia, Biblioteca Nazionale di Firenze, Institute and Museum of the History of Science Florence, Kunsthistorisches Institut Florenz - MPI, Bibliotheca Hertziana - MPI for Art History, Opera di Santa Maria del Fiore, Universita Degli Studi di Pavia, Istituto Lombardo Accademia di Scienze e Lettere, Biblioteca degli Intronati di Siena

Mongolia: Mongolian Academy of Sciences

The Netherlands: Radboud University Nijmegen, MPI for Psycholinguistics, The National Museum of Ethnology of the Netherlands

Norway: Universitetet i Oslo, The Norwegian Institute of Palaeography and Historical Philology

Spain: Fundacion Canaria Orotava de Historia de la Ciencia , Humboldt Project, Museu Maritim di Barcelona

Sweden: University of Lund, Stockholm University

Switzerland: University of Berne

Thailand: Fragile Palm Leaves Foundation, Pali Text Society, Lumbini International Research Institute

United Kingdom: British Library, City University, London, Imperial College London, University College London, Newton Project, Ure Museum of Greek Archaeology, Royal Anthropological Institute of Great Britain and Ireland, Joint Information Systems Committee

USA: Harvard University, Tufts University, University of California Los Angeles, University of Missouri at Kansas City