

DELOS

NETWORK OF  
EXCELLENCE ON  
DIGITAL  
LIBRARIES

# DELOS

## the Network of Excellence on Digital libraries

Third Summer School  
Pisa, 6-10 September 2004

An initiative funded until 2007 by the European Commission, under the 6<sup>th</sup> Framework Program.

Presently it has 47 members:

European Research Consortium for Informatics and Mathematics ▶ Istituto di Scienze e Tecnologie dell'Informazione – CNR ▶ Swiss federal Institute of Technology Zurich ▶ University of Bath ▶ University of Athens ▶ Technical University of Crete ▶ Università degli Studi di Firenze ▶ Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. ▶ University of Glasgow ▶ Universität Duisburg-Essen ▶ Stichting Centrum voor Wiskunde en Informatica ▶ Risoe National Library ▶ Foundation for Research and Technology – Hellas ▶ Università degli Studi di Roma “La Sapienza” – DIS ▶ Brunel University ▶ National Technical University of Athens ▶ Università degli Studi di Padova ▶ Università degli Studi di Milano ▶ University for Health Informatics and Technology Tyrol ▶ Max-Planck-Ges.z.F.d.W.vertr. d. MPI fuer Informatik ▶ Kuratorium OFFIS e.V. ▶ Queen Mary & Westfield College ▶ University of Strathclyde ▶ Ionian University, Archive and Library Science Department ▶ Université Paris-sud XI/Laboratoire de Recherche en Informatique ▶ University of Southampton ▶ The University of Edinburgh ▶ Institute for Information Processing and Computer Supported new Media ▶ Vienna University of Technology ▶ University of Urbino ▶ Norwegian University of Science and Technology – DCIS ▶ Lund University /Lund University Libraries, Head Office ▶ Institut National de Recherche en Informatique et en Automatique ▶ Aristotelio Panepistimio Thessalonikis ▶ National Archief ▶ Univesitaet Bremen ▶ Phonogrammarchiv der Österreichischen Akademie der Wissenschaften ▶ University of Leeds ▶ Universität zu Köln ▶ Consorzio Forma ▶ Swedish Institute of Computer Science AB ▶ Università degli Studi di Modena e Reggio Emilia ▶ Masarykova univerzita v Brne ▶ Universiteit van Amsterdam ▶ Università Della Svizzera Italiana ▶ Magyar Tudományos Akadémia Számítástechnikai és Automatizálási Kutatóintézet ▶ Università degli Studi di Bari - Dipartimento di Informatica

# Main Objective

To define and conduct **a joint program of activities** in order to integrate and coordinate the on-going research activities of the major European research teams in the field of digital libraries for the purpose of developing the next generation digital library technologies

# Other Objectives

- Network and structure European research on digital libraries, so as to consolidate an emerging community
- Contribute towards improving the effectiveness of European research in the digital library field
- Provide a forum where researchers, practitioners, and representatives of interested applications and industries can exchange ideas and experiences
- Promote cooperation between European and national digital library initiatives
- Improve international cooperation in DL research areas

# Activity Organization

- The Network activities are organised into a set of Workpackages (clusters):
  - WP1: Digital Library Architecture
  - WP2: Information Access and Personalization
  - WP3: Audio/Visual and Non-Traditional Objects
  - WP4: User Interfaces and Visualization
  - WP5: Knowledge Extraction and Semantic Interoperability
  - WP6: Preservation
  - WP7: Evaluation
  - WP8: Dissemination and Spreading of Excellence

## Objectives

- To evaluate, from the conceptual and experimental point of view, the three main directions to a Digital Library architecture, in order to understand pros and cons of each alternative
  - P2P Architecture
  - Grid-based Architecture
  - Service-oriented Architecture

# Information Access and Personalization (WP2)

## Objectives

- To promote knowledge about available practices in the fields of information access and personalization in digital libraries. This will lead to a uniform understanding of problems among researchers.
- To construct a common, comprehensive framework for information access and personalization approaches. This framework is intended to serve as a reference point for the DL area and to stimulate research.
- To promote research on new information access and personalization models and methodologies.

# Audio/Visual and Non-Traditional Objects (WP3)

## Objectives

- To establish a common ground of knowledge for European researchers about emerging requirements and research directions and solutions for standards, management, access, presentation and use of digital libraries content and make available testbeds and demonstrators of the most significant solutions.
- To advance the state-of-the-art in the solutions for metadata extraction, object management, information access and content-based retrieval, taking into account the specific requirements of the delivery media, the application requirements and the user terminals.



# User Interfaces and Visualization (WP4)

## Objectives

- To elaborate a common understanding of the role and scope of user interface research in the digital library area.
- To develop the theoretical framework for digital library user interface design.
- To develop methodologies, techniques and tools to enable future Digital Library designers and developers to meet not only the technological, but also the user-oriented requirements in a balanced way.

# Knowledge Extraction and Semantic Interoperability (WP5)

## Objectives

- To co-ordinate a programme of activities which brings together research excellence from a range of inter-related knowledge engineering and information management areas, and which facilitates the sharing of experience and expertise amongst practitioners from both DL and Grid/computing science background
- To explore the potential of new models, algorithms, methodologies and processes in a variety of technical applications, institutional frameworks and cross-sectoral environment.
- To create guidelines and recommendations of best practice for dissemination to the widest possible community of interest.

# Digital Preservation and Curation (WP6)

## Objectives

- To eliminate the duplication of effort between research activities by creating an integrating framework to co-ordinate and promote research and projects and to enable identification, collection, and sharing of knowledge and expertise.
- To examine core issues that will deliver essential guidelines, methods, and tools to enable the construction of preservation functionality within digital library activities.
- To establish testbeds and validation metrics. These will provide a framework for testing preservation strategies, for establishing the preservation worthiness of digital library implementations.
- To relate the digital preservation research agenda more directly to the development of exploitable product opportunities and to develop links with the industrial sectors issues.

## Objectives

- To develop a comprehensive theoretical framework for DL evaluation, which can serve as reference point for evaluation studies in the DL area.
- To research on new methodologies in order to overcome the lack of appropriate evaluation approaches and methods.
- To develop corresponding toolkits and test-beds in order to enable new evaluations and to ease the application of standard evaluation methods.

# Dissemination and Spreading of Excellence (WP8)

## Objectives

- To establish a Virtual D-Lib Competence Center to disseminate the results of the Network activities
  - Network Web Site
  - Electronic Newsletter
  - Thematic Workshops
  - Brainstorming Workshops
  - Joint Workshops
  - National Awareness Events
  - Summer Schools