

# open Carchives 1111

# Open Archives Forum - Technical Validation -

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# forum Creating Information Sources

- European portal for open archives information
  - Information Resource Database (registry of repositories, services, software, projects and associated organisations
- Evaluation of status, experiences and future plans regarding European OAI implementations
  - Online "Technical Validation Questionnaire"
- Systematic inventories
  - Repositories, services and tools
- Reports on own experiences
  - OAI-PMH 2.0 alpha and beta tester,
  - Implementation of OAI Services experiences software tools
- → Highlight some aspects of european activities on OAI in relation to worldwide activities

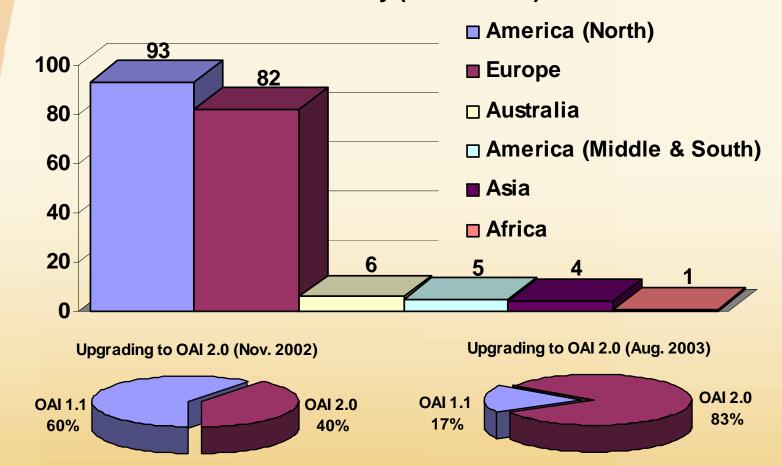






# **Overview Repositories - World**

#### **Overview on OAI activity (continents)**

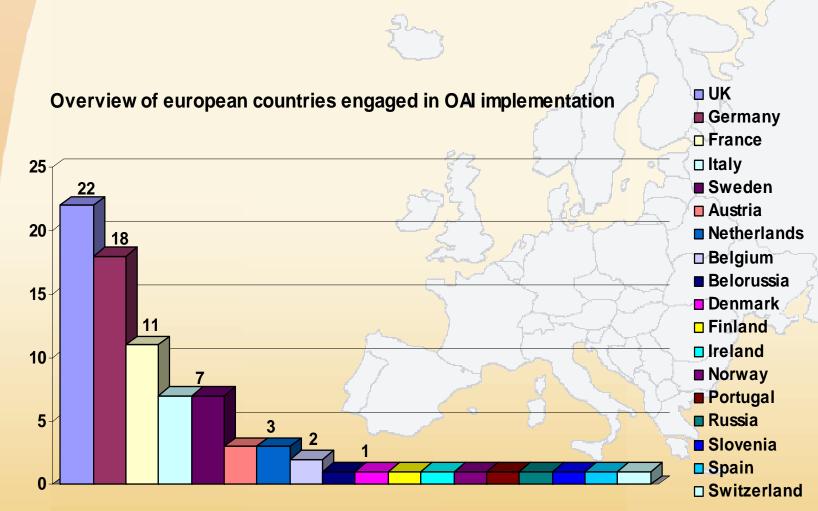








# **Overview Repositories - Europe**



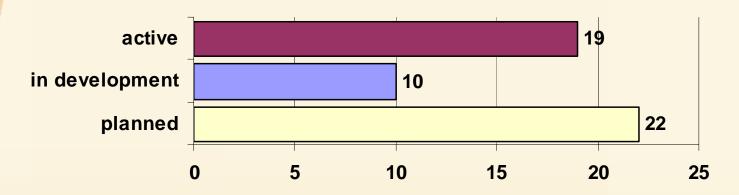




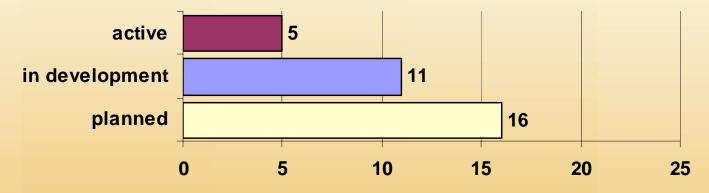


# **Details of Questionnaire**





#### **Service Provider**

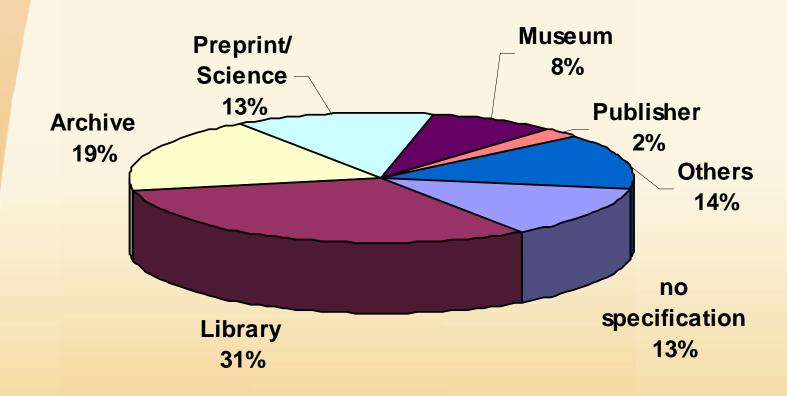








# **Questionnaire: Community Types**



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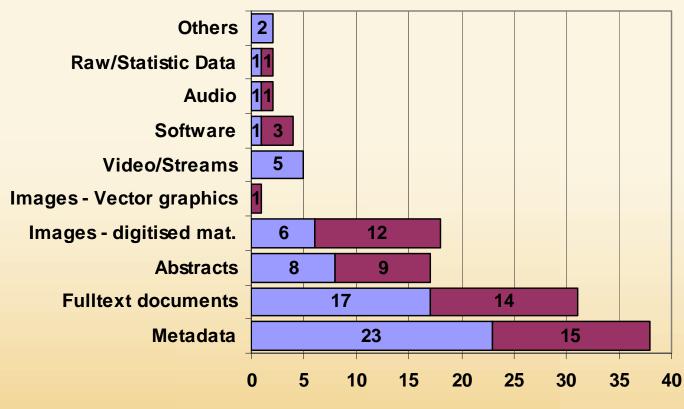


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# **Questionnaire: Object Types**

#### Multiple answers possible



□ already OAI compatible ■ not yet OAI compatible

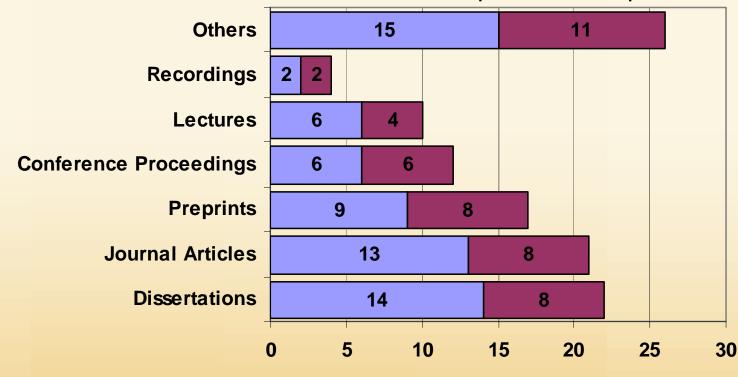






# **Questionnaire: Content Types**

#### Multiple answers possible



□ already OAI compatible □ not yet OAI compatible







# **Questionnaire: Used Software**

- Many different tools were mentioned:
  - ADLIB, ARNO, CDSware, DIENST, DSpace, Elektra, EPrints, PERL implementations, OAI Cat, OAI Harvester, VT-ETB-db
- Today: 50 % use self developeded tools One year ago: 80 % used self-developed tools
- Trend: Need of tools which are user-friendly complete solutions
  - cover typical functionalities
  - x to be installed by relatively small expenditure
  - adaptable to special requirements if necessary
  - x little expenditure with the further care of the data

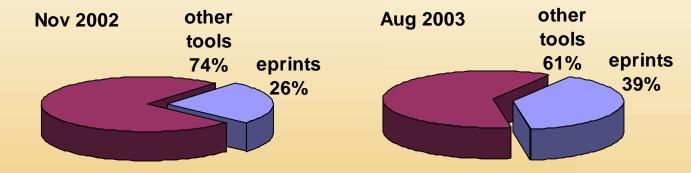


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# forum Tools: Eprints - DSpace

- GNU Eprints developed at the Electronics and Computer Science Department of the University of Southampton, UK
- DSpace newly developed as a joint project of the MIT Libraries and the HP Company, USA
- Some numbers of the inventory of repositories:





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# forum Tools: Eprints - DSpace

- Open source developments for archiving
- Nearly identically in their functionality
  - search functions, document archiving, online interfaces for self archiving, integration of the OAI PMH, ...
- Systems base on different technologies
  - Eprints: traditional technologies, runs on pure open source systems: mySQL and Apache, programmed by using the script language "Perl"
  - Dspace: operates with new technologies such as the Postgres database and Tomcat for jsp/java web application, higher performance

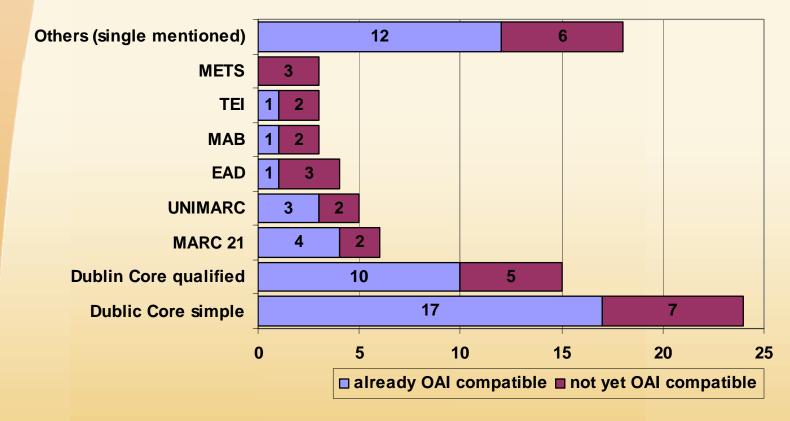






# **Questionnaire: Metadata Formats**

#### Multiple answers possible









# **Problems for Service Provider**

#### Problem: Standardisation

"heterogeneity of the content of the metadata records requires the service provider to expend a lot of effort in normalizing the data in order to make it more comparable and usable"

- could be done at lesser cost by the individual DP
- or by the development of middleware tools that service providers could use for data normalisation

#### Lacking interoperability

- different metadata standards, terminology, languages, access strategies, interfaces / transfer protocols, copyright regulations
- Difficulty to establish joint services based on open archives







# forum Creating Recommendations

Example of a possible solution:

#### **German Initiative for Networked Information:**

# Recommendations for usage of OAI-PMH

- created by DINI-OAI working group (<a href="http://www.dini.de/">http://www.dini.de/</a>)
- target: agreement on syntax and semantics of OAI set definitions for German data and service providers
- enhance retrieval quality and support subject gateways (e.g. Physnet, Dissertation search engine, ...)
- definition of three classification types
  - subjects (according to DNB)
  - formal publication types (e.g. dissertation)
  - formal document types (e.g. text, audio)
- example service provider based on recommended sets: <a href="http://edoc.hu-berlin.de/e\_suche/oai.php">http://edoc.hu-berlin.de/e\_suche/oai.php</a>



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# forum OAI advantages?

# Importance of OAI

- provide additional services to existing services
- replace existing services through OAI interface
- better retrieval, make Metadata exchange available

# Advantages of OAI

- share scientific knowledge, harvest other knowledge databases, cross-search in institutional assets
- major dissemination of researchers' results
- simple and cheap in implementation
- → "provide access to all of human knowledge"
- "nothing other than political expediency"



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# http://www.oaforum.org/oaf\_db/



#### Resources:

Information Resource | Glossary | Talks and Presentations |
Articles | Other Resources | Technical Validation



In order to bring interested parties together, to build a community of interest, and to enable exchange of information OAForum established this web-based European information source for open archives.

This application allows you to

#### ... browse current lists of

- Services
- Repositories
- Projects
- Software
- Organisations
- Protocols
- Metadata schemes

#### ... search in the database

Make sure you have only used blank (" ") to seperate different search terms.

Search for: Go

#### ... be part of the OAForum open archives information source?

>>> Register here

All European services, repositories, projects and organisations that use an open archives approach, have



Project Documents

Contact us

# http://www.oaforum.org/resources/tecvalq2.php



#### Resources:

Information Resource | Glossary | Talks and Presentations |
Articles | Other Resources | Technical Validation



Technical Validation Questionnaire | 1st Questionnaire





Overview



Workshops

Project Documents

Contact us

#### **Technical Validation Questionnaire**

An important role of the Open Archive Forum is sharing information about technical issues relating to open archives, and especially about implementations of the Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH). Please help us by filling at least part of our questionnaire. Don't worry if you can't fill in all of the form, we would be pleased if you fill in as much of the form as you can.

Your repository is already OAI compatible as Data Provider and/or Service Provider (test implementations included)?

Click here to get the questions! >>>

Your repository does not now have any OAI implementations, but the possibility is being considered?

Click here to get the questions! >>>

# http://www.oaforum.org/documents/



#### **Project Documents:**

Reports | Internal BSCW-Server (project partners only)



Contact us

#### Reports

The Open Archives Forum project will produce several reports during 2002 and 2003. These reports will be made available here as they are delivered.

#### · Project presentation

This briefly sets out the objectives, describes the work and expected results of the OA-Forum project, and gives some administrative details.

#### Workshop reports

Workshop report 1 (pdf-file, 197 KB)

This describes the 1st OA-Forum workshop, held in Pisa, 13-14 May 2002: "Creating a European Forum on Open Archives Activities"

Workshop report 2 (pdf-file, 285 KB)

This describes the 2nd OA-Forum workshop, held in Lisbon, 6-7 December 2002: "Open Access to Hidden Resources"

Workshop report 3 (pdf-file, 276 KB)

This describes the 3rd OA-Forum workshop, held in Berlin, 27-29 March 2003: "Networking Multimedia Resources"

o Workshop report 4



# Thank you!

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