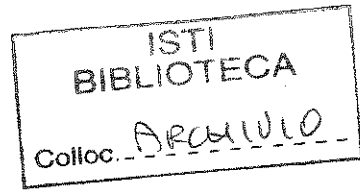


A3-18  
2002

# SchOlnet



## *A Digital Library Testbed to Support Networked Scholarly Communities*

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Italy

SchOlnet

## General Information

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- Funding Programme
  - EU V Framework Programme
  - IST - Research Networking
  
- Effort: 220 p/m
- Duration: 30 months
- Commencement date: November 2000



## Project consortium

CNR	(Scientific Coordinator, Italy)
INRIA	(France)
FhG	(Germany)
FORTH	(Greece)
SICS AM	(Sweden)
Univ. of Masaryk	(Czech Republic)
ERCIM	(Administrative Coordinator, France)

Rome, 25-26 March, 2002

EC/NSF All DL Projects Concertation meeting



SCHOLNET aims at developing a digital library service system to support the communication and the collaboration within networked scholarly communities

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- information acquisition, description, archiving, search, access, and dissemination of multimedia documents
- handling of annotations on documents
- multilingual access
- personalised information dissemination

Scholnet must be able to serve the needs of any scholarly communities

# Serving any community (1)

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- ❑ Generic with respect to the DL content
  - Structure of the document
  - Organisation of the information space
  - Metadata format
  - Controlled vocabulary

# Serving any community(2)

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- ❑ Adaptable services

e.g. Search

- Type of search
  - Simple, fielded, cross-language, relevance feedback,....
- Query language
  - Fields, relational operators, allowed terms,....
- Format and organisation of the retrieved records
  - Short, detailed, ...ranked,...

# Serving any community(3)

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## ❑ Extensible set of services (Open)

Different communities need their own specific services

e.g.

- Research community: Co-operative work service
- Worldwide community of medicine: Translation service

# Two step solution

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1. Open Service Management System (OSMS)
2. Generic and adaptable services covering the required functionality



# Open Service Management System

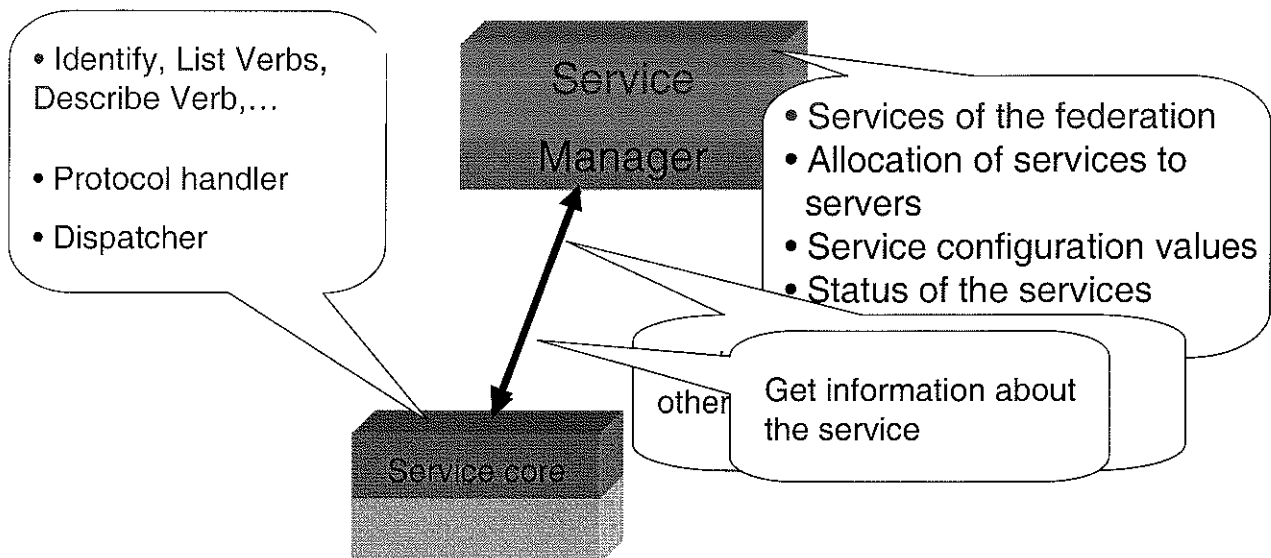
Manager of an open federation of centralised or distributed and/or replicated services

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# Open Service Management System

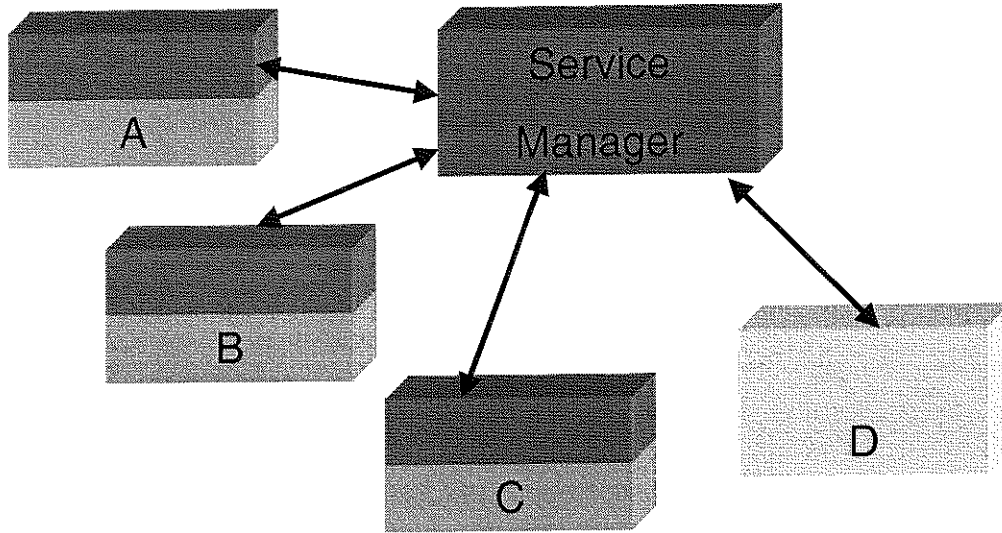


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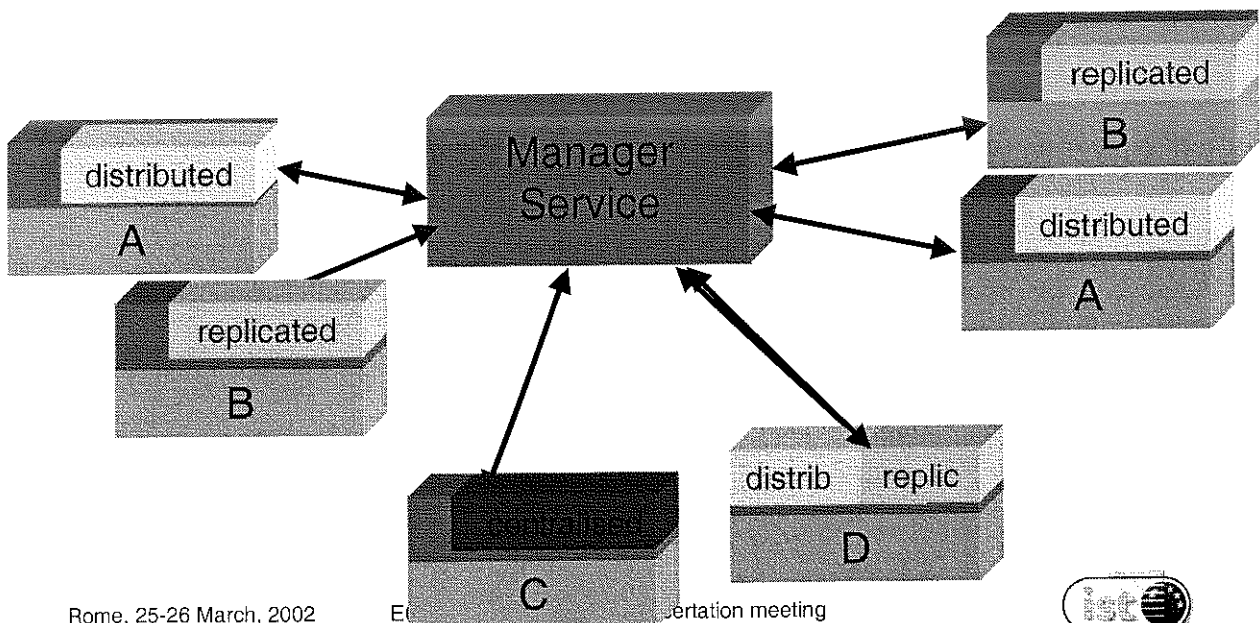
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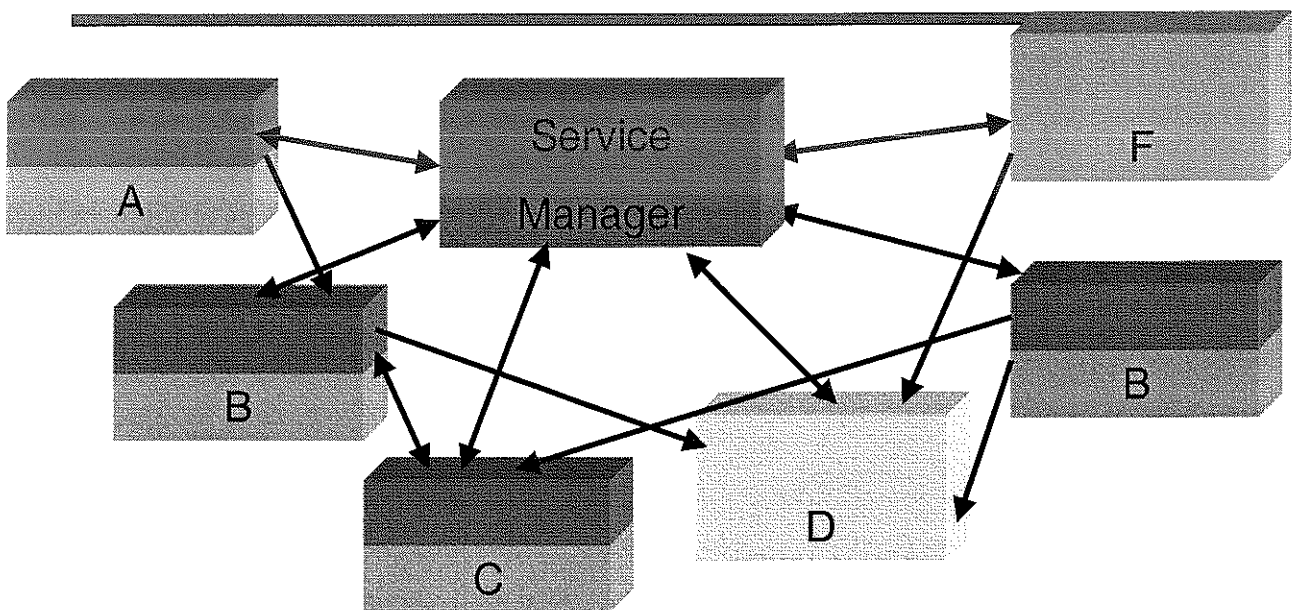
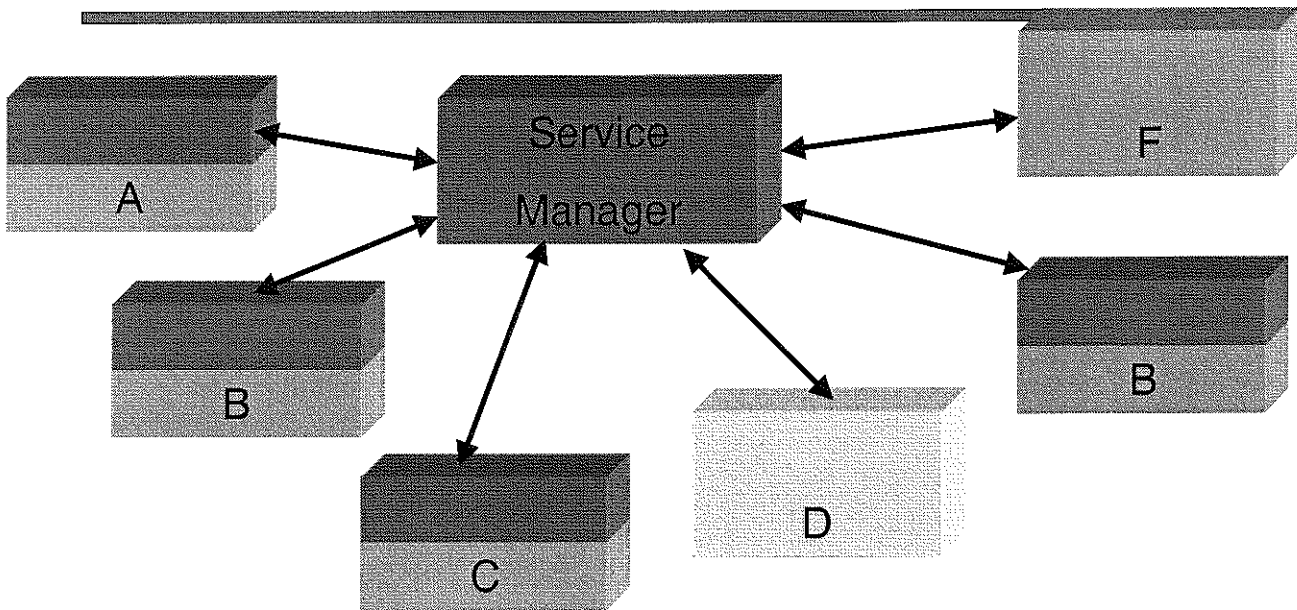


# Building a federation



# Replication and Distribution







# Two step solution

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1. Open Service Management System (OSMS)
2. Generic and adaptable services covering the required functionality

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# DL services system

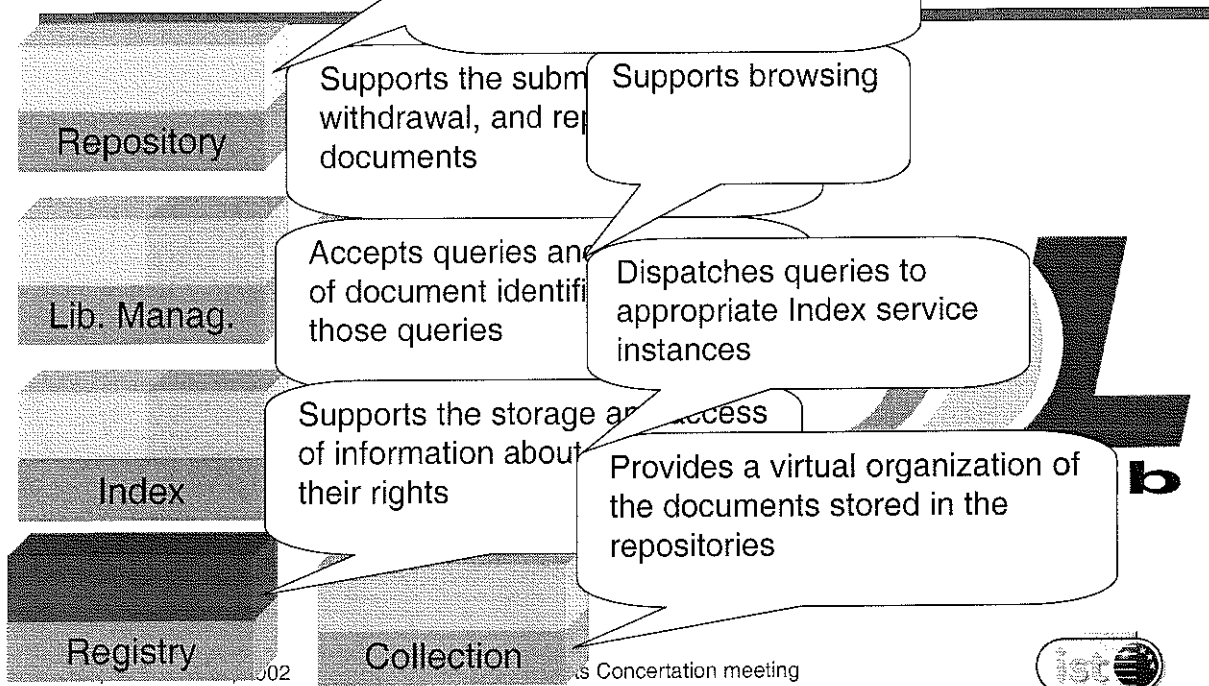
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OSMS has been instantiated with a federation of services which provide the basic digital library functionality

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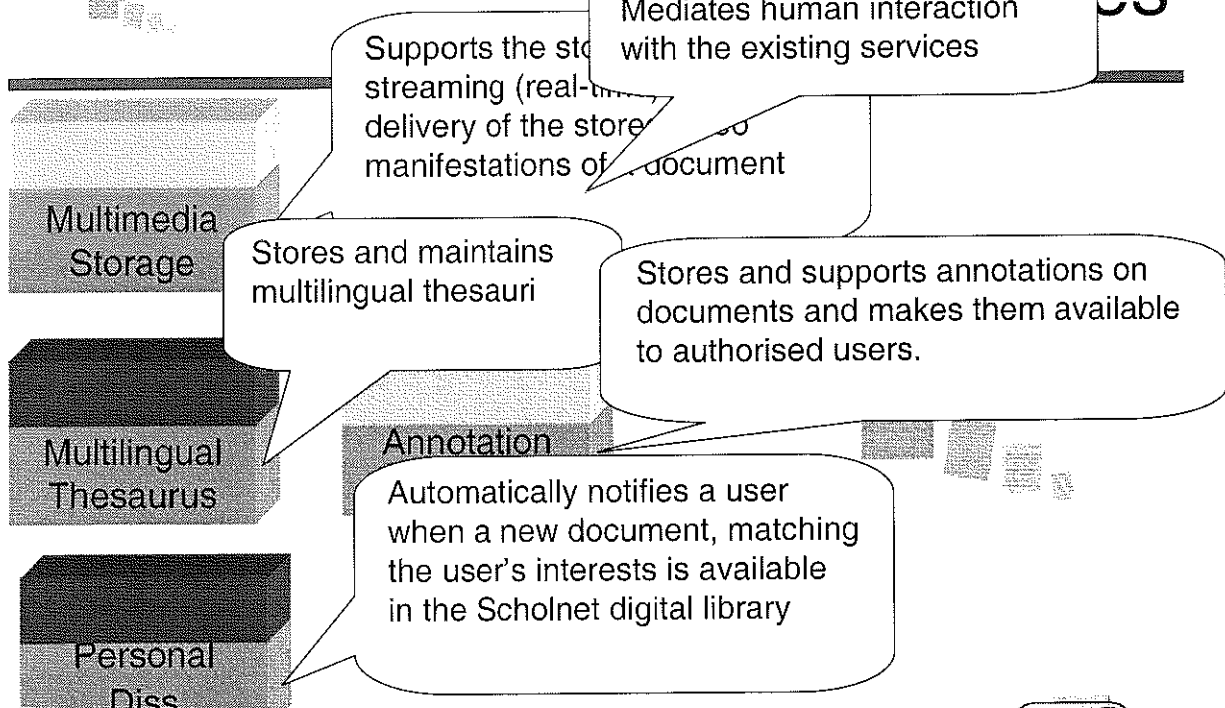
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# Generic with respect to the content

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## 1. Versatile storage document model

➤ Edition

➤ View

e.g. whole document,  
structured document,  
annotated document, ....  
summary, ...  
link-to, ....

➤ Manifestation



# Generic with respect to the content (cont.)

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➤ Part-Of

journal – articles  
thesis – chapters - sections  
video – scenes - shots  
seminar – slides + video .....



# Generic with respect to the content (cont.)

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## 2. Multiple metadata formats associated with the document and its parts

- A common metadata format is mandatory

# Implementation

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## Protocol

- HTTP(S) embedded
- parameters, results: XML encoded

## OSMS, OpenDLib: Apache - ModPerl

## Other Scholnet services: different sw choices



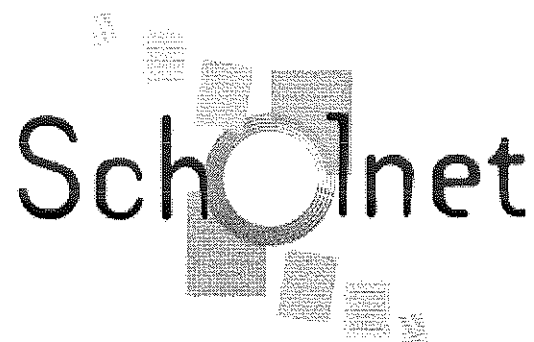
# Status of the implementation

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- OSMS: completed
- OpenDLib, Scholnet: ongoing
- Scholnet first prototype: completed by  
September 2002

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<http://www.ercim.org/scholnet>