LIBER Workshop on The Open Archives initiative (OAi) and Peer Review Journals in Europe – 22.-24. March 2001 at CERN -

Publishing and Refereeing in a Distributed World - the Views of a Physicist and a Librarian

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A discussion in the train

- Scientist ...

  did not know what services he was deprived of.

- Librarian ...

  assumed to know what services are good for science.

The young Elsevier...

did ask the scientists:

„What new services are needed?“

What refereeing do we need ?

- Instant publishing before refereeing
- Time stamp for prime research
- Archiving of relevant information
- Competitive refereeing
- Multilevel refereeing
- Full information published to be fair to referees
- Open refereeing [Annotation linking]
- Voluntary refereeing to be a pleasure for referees

Principles for Document Services for the Sciences

- Must be scalable [10 Bill. Docs in Physics/a]
- Distributed data bases [author controlled]
- Free distribution [author´s right]
- Worldwide accepted Metadata standards [DC]
- Free access to all research results [ownership]
- Comply with needs of scientists
- Competitive add-on services

PhysNet as seen by OAi

www.eps.org/PhysNet

The Concept

- An open archive started in 1995 [cooperation with Math, IMU]
- Transfer of Concept by CRISP1,2,3; IuK1999 at Jena
- IuK, DINI, EPS

PhysNet as Data Provider

- Collection of data providers:
  the authors at their local institutions
- Any information on the local web server:
  research, admin, teaching, homepages,
  journals, conf and job lists, ...

PhysNet metadata

- Fully DC compliant [DC:sci.cooperation]
- Provide author tools [MMM, pers-home]
- Technical cooperation with Math-Net
- DC:Frankfurt: workflow coupled to metadata
- OAi compliance by 8. March 2001

Acceptance and usage

- 2% of documents come with metadata
- 1 in 1000 home pages come with metadata
- usage is 30.000/month
- 1% of institutes joined formally

PhysNet as Service Provider

- Distributed gatherers under local control: [about 40 local, regional, national gatherers]
- Distributed independent Brokers: [US, DE, Russia, Hungary, France, UK, DK, India, Japan, Australia, ..., EPS] (NSF-DFG: VT, UoI, SSB)
- From Harvest to Cyclades

Scheme

- **umbrellaed by EPS, controlled by ACPusC**
- **Charter [released 29.3.2001]: unbiased cooperation, nonprofit, shared workforce**
- **Cooperation agreement with Math:Net**
- **Driven by Science needs**
- **Technical coalition: CCSD, IWI, ISN, ..**

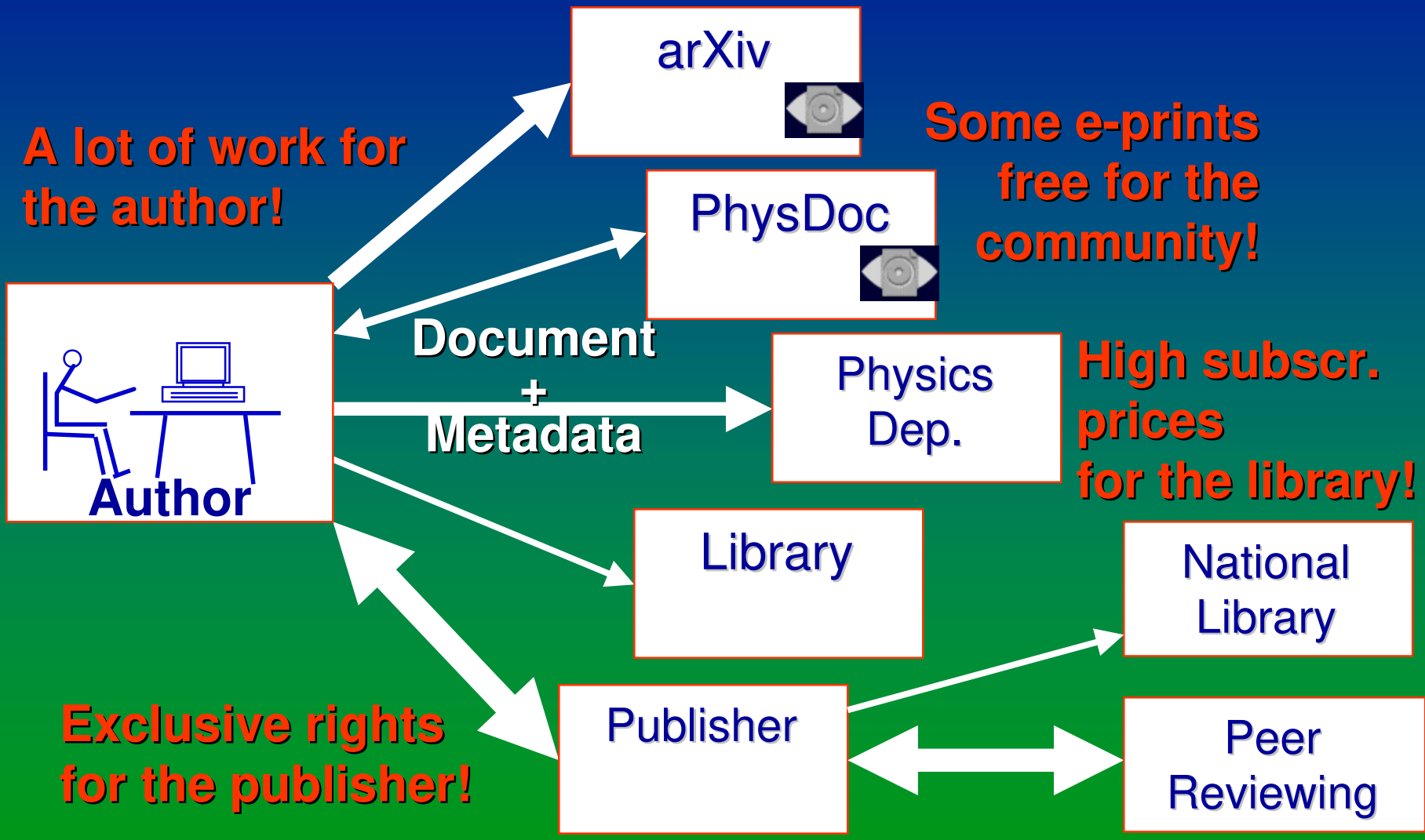
What you expect from us – and we expect from you?

- OAi data base for smaller Physics Depts.
- Improve provider´s service
- Import metadata from other OAi data bases in Physics
- Add-on services
- You to join existing metadata standards
- You to share software
- You to add your lab and yourself to the distributed registry http://www.eps.org/PhysNet

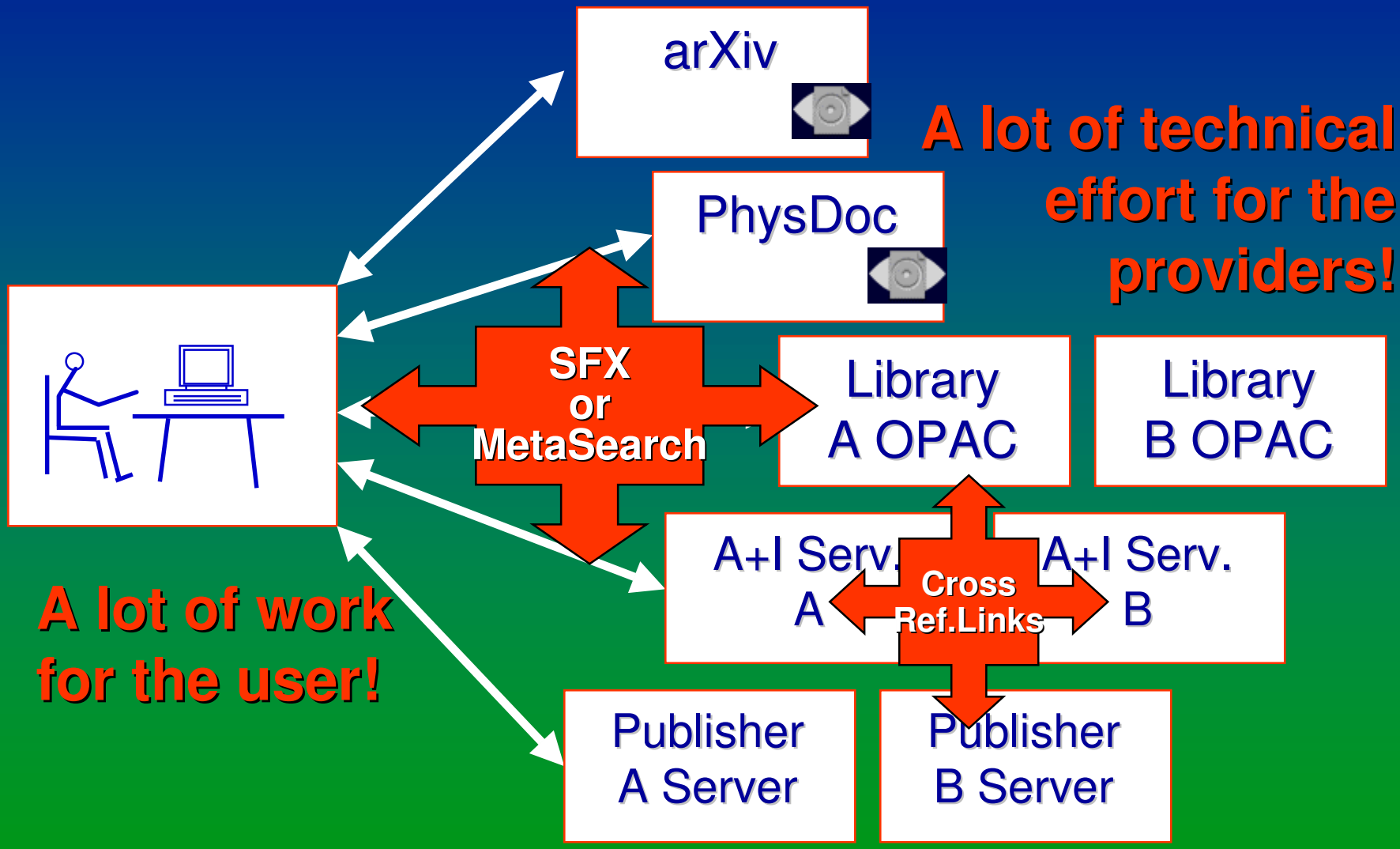
But ...

- what is the summary of the physicist´s demands?
- what will be the scenario of tomorrow for data providers?
  - A subject based approach?
  - An institution based approach?
- what for service providers?
- what can and must be done to manage the change?

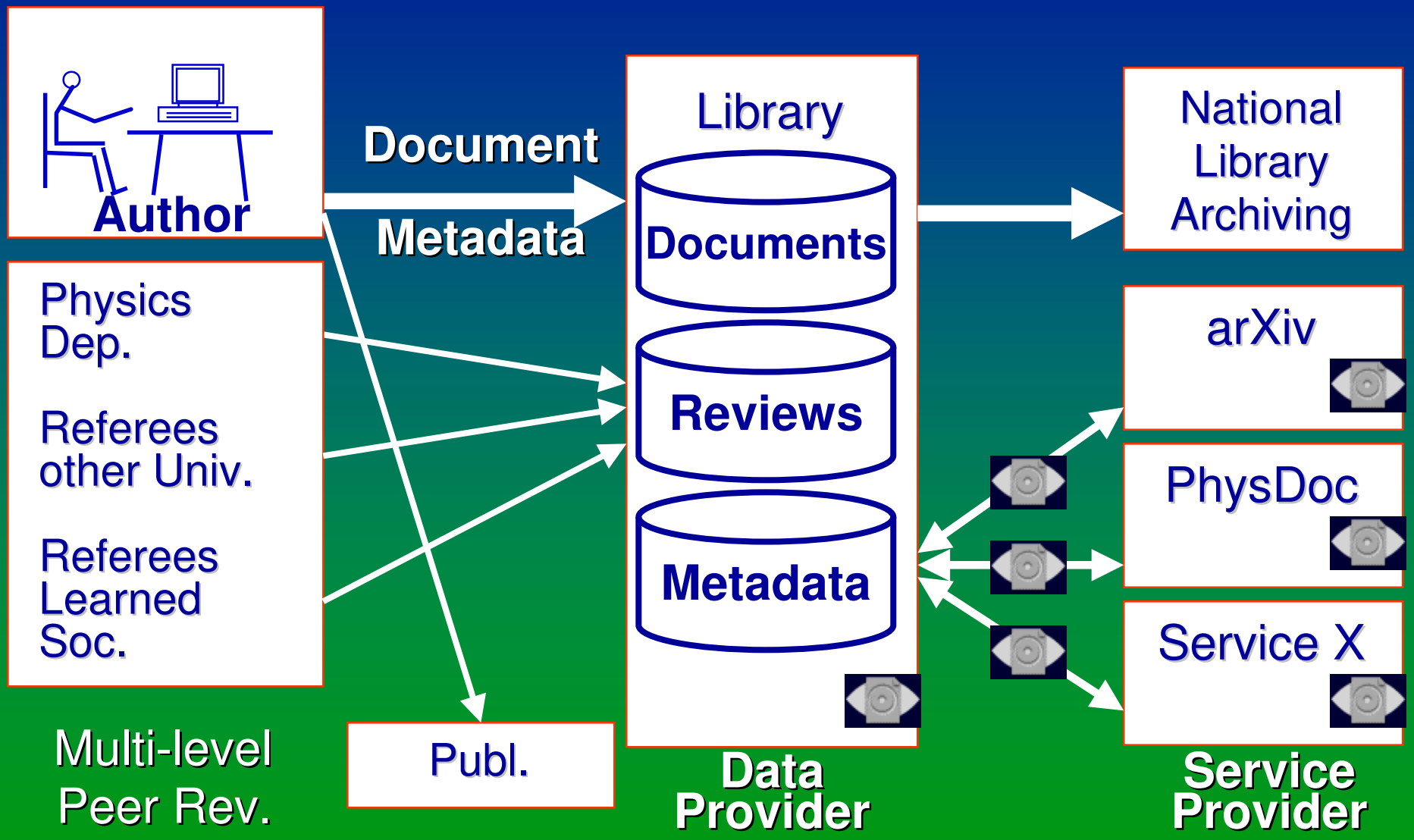
The World of Today: Scholarly Publishing, Peer Reviewing, Metadata, and Archiving



The World of Today: Searching - Retrieving



Scenario for Tomorrow: OAi Data and Service Providers + Peer Reviewing



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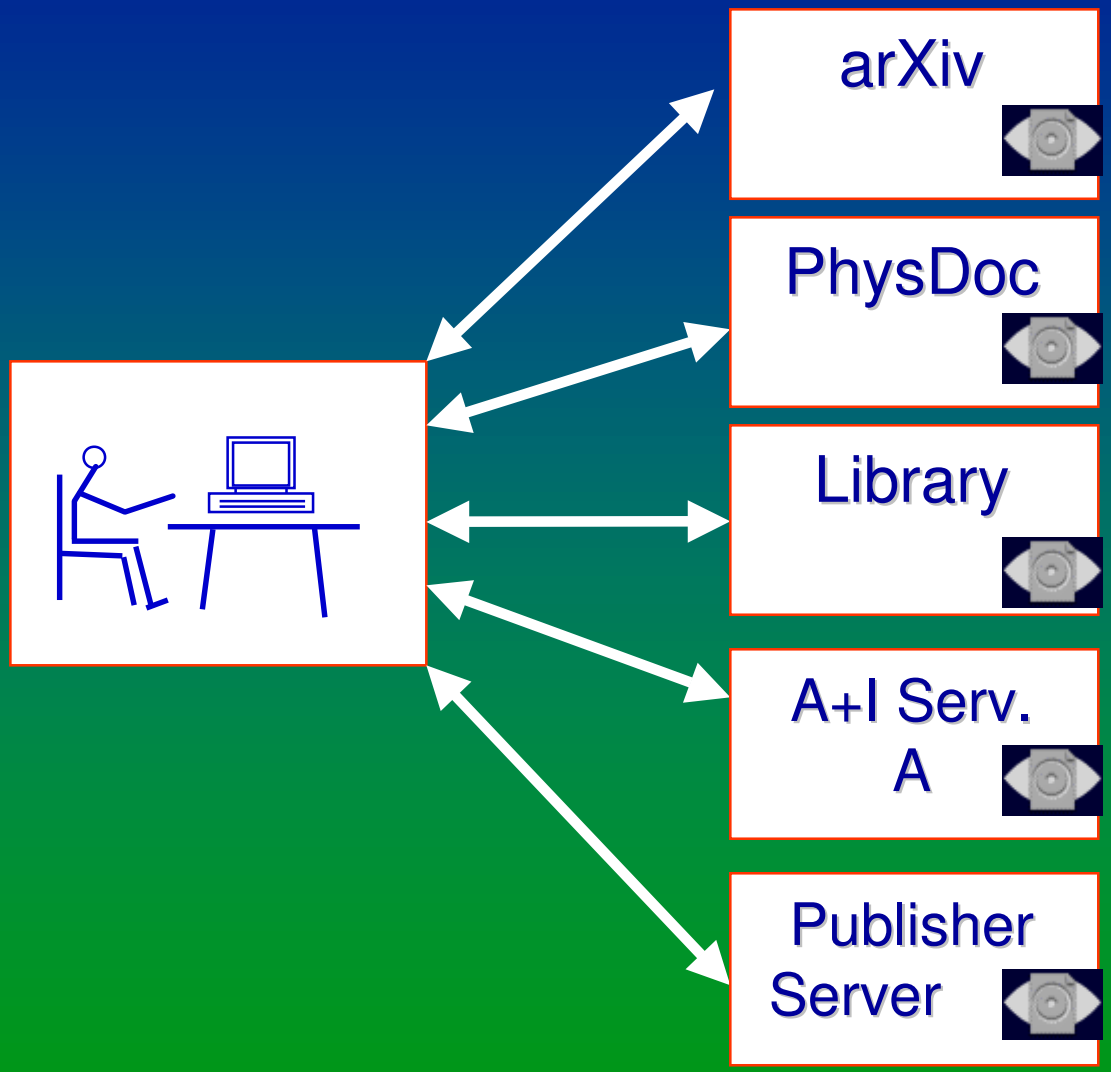

Competition by

- -quality of add-ons
- -level of refereeing
- -quality of contents
- -specialization
- -depth of search
- -size
- -comfort of retrieval
- -level of integration
- -local focus
- - ...

Advantages of this Scenario

Less work for the author!

Immediate publication!

Most e-prints free for the community!

Lower costs for the library!

Open multi-level peer reviewing!

Easy integration of metadata into existing services!

Less printed journals but more accessible e-publications!

Value-added services by different providers!

Non-exclusive rights for the publisher!

OAi = „Napster for the Sciences“

Richard Sietmann in: c´t 6/2001, S. 78

Activitities in e-Archives

- Universities / Univ. Libraries
  - OPUS (Stuttgart ...)
  - Eldorado (Dortmund)
  - e-Lib (Osnabrück)
  - MILESS (Essen)
  - COPACABANA (Oldenburg) ...
- Regional Bibliographic Utility Systems
  - PiCarta GBV Göttingen
  - BSZ-Media Server Baden-Württemberg
  - DigiBib North-Rhine-Westfalia ...
- National Projects
  - GlobalInfo (BMBF)
  - DissOnline (DFG)
  - Virtual Subject-based Library (DFG)

Institution owned free e-publications are mostly:

- **Diss.**
- **Theses**
- **Multimedia**
- **old digit. Material**

but nearly no

- **non-profit e-Journals**

Example of an activity in a peer reviewed, non-profit, virtual University Press

Cooperation of universities in North Germany

(Hamburg, Oldenburg, Bremen, Kiel, Rostock, Greifswald):

- in evaluation of teaching and research
- in usage and production of multimedia
- in e-publishing and establishing a joint university press for e-publications
  - pilot project of Hamburg + Oldenburg + possibly NN (North-Rhine-Westfalia)
  - peer reviewing *between* different universities
  - shared functions (work flow system, marketing ...)
  - separate functions (business model, financing ...)

➡ virtual university press of an open and growing number of online and peer-reviewed university presses

National activities to support the OAi

- DINI German Initiative for Networked Information
  - similar to CNI
  - Cooperation between
    - Research Libraries (DBV),
    - Computer Centres (ZKI)
    - Media Centres (AMH) and
    - IuK Initiative of Learned Societies

    to improve the information infrastructure
  - DINI´s appeal to join the OAi (2000)
  - DINI workshops for German data providers to support the implementation of the OAi specification (planned for June 2001)

We need ...

cooperation,
persuasive power,
acceptance!

vision of e-paper by Xerox