

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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www.bis.uni-oldenburg.de/abt1/waetjen/genf/

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?

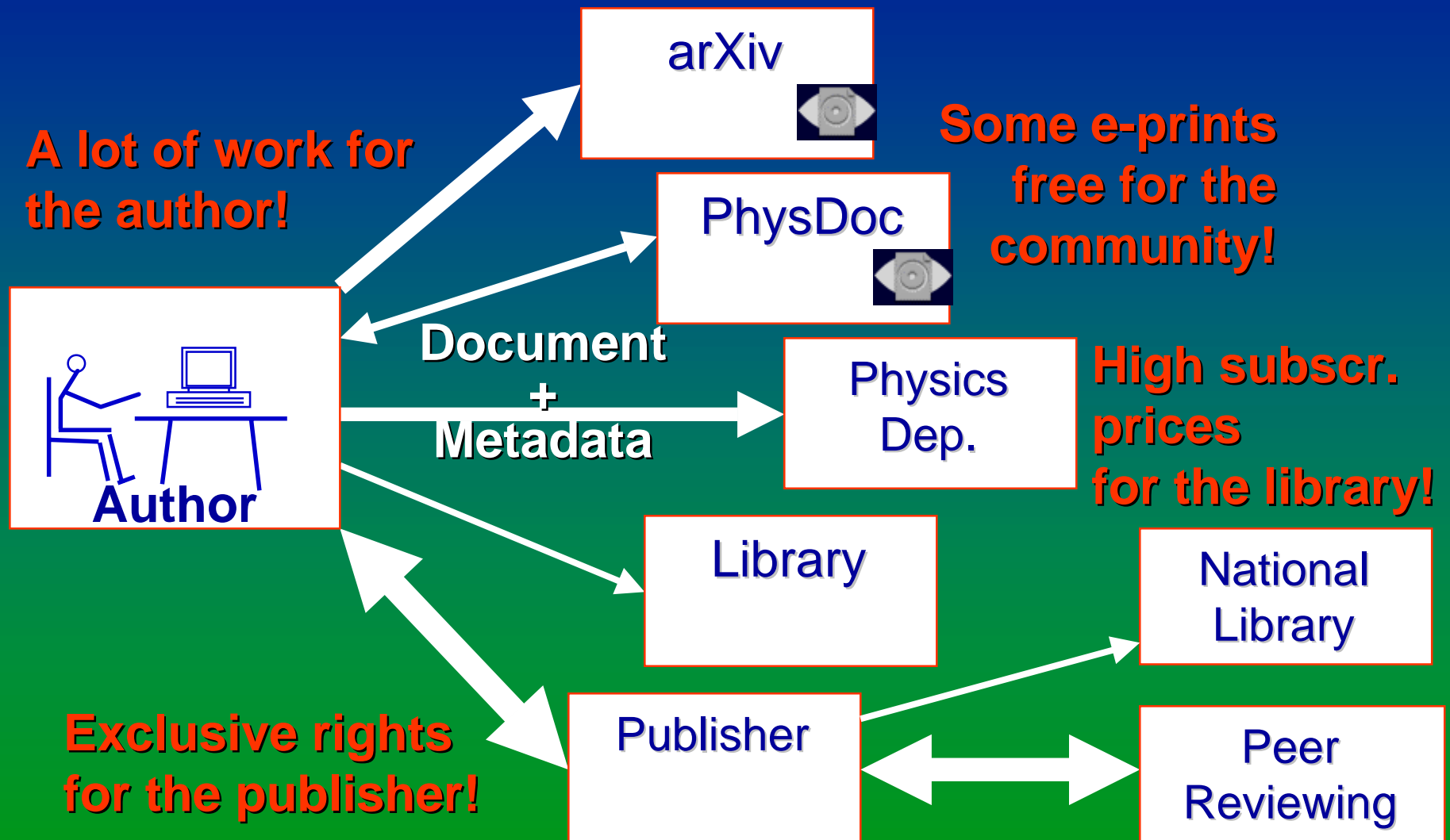
- OAi data base for smaller Physics Depts.
- Improve provider's service
- Import metadata from other OAi data bases in Physics
- Add-on services
- You to join existing metadata standards
- You to share software
- You to add your lab and yourself to the distributed registry

<http://www.eps.org/PhysNet>

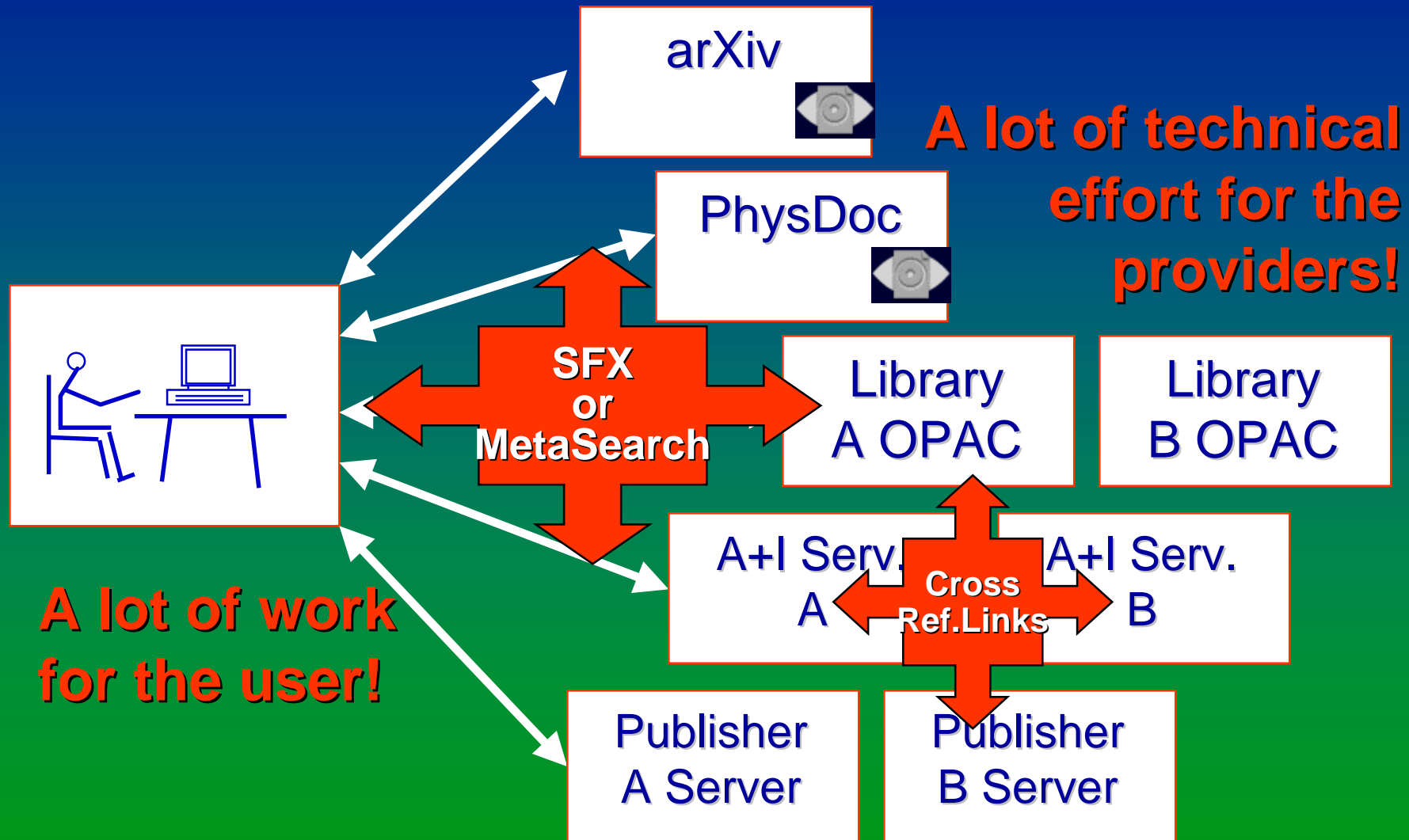
But ...

- 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?

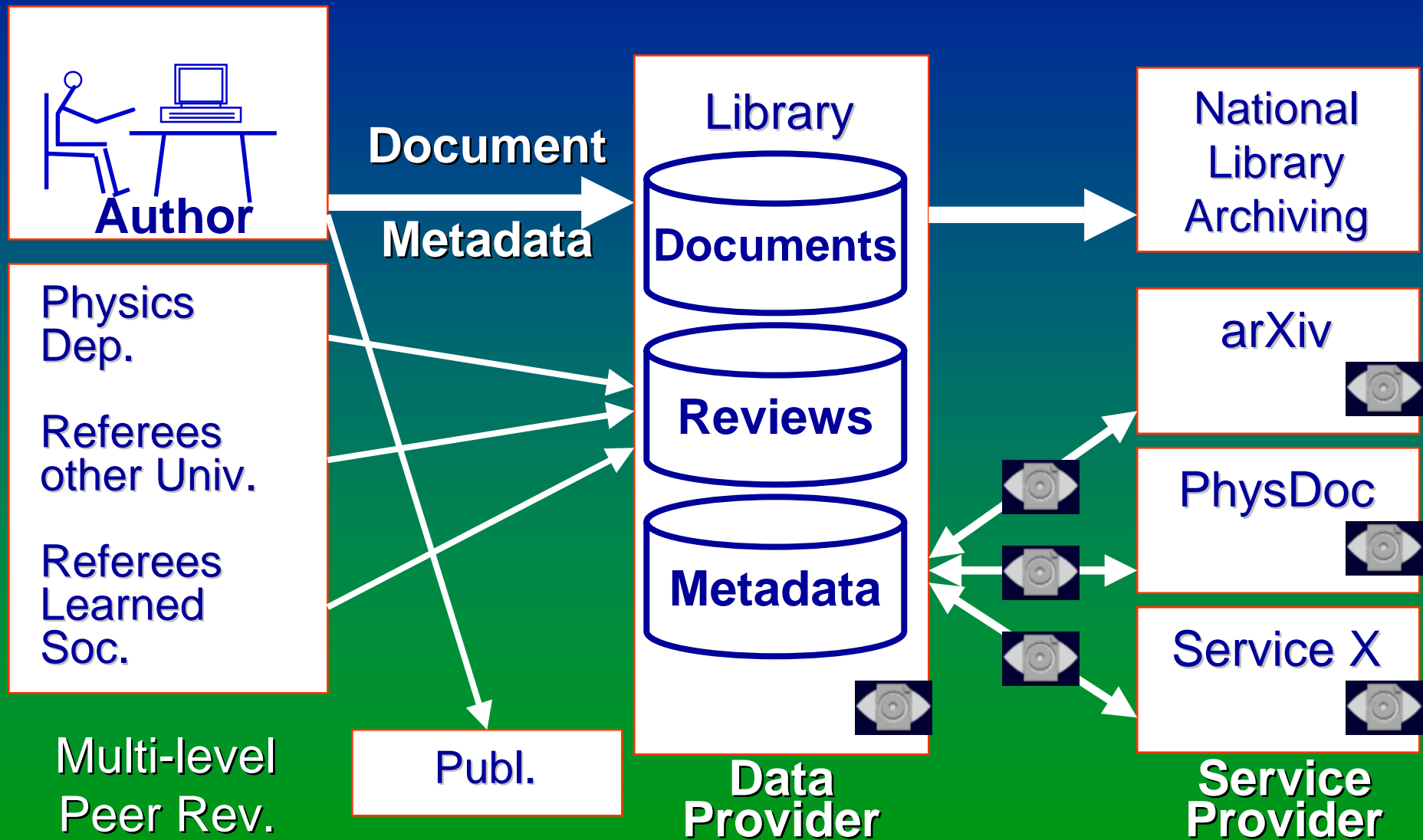
The World of Today: Scholarly Publishing, Peer Reviewing, Metadata, and Archiving



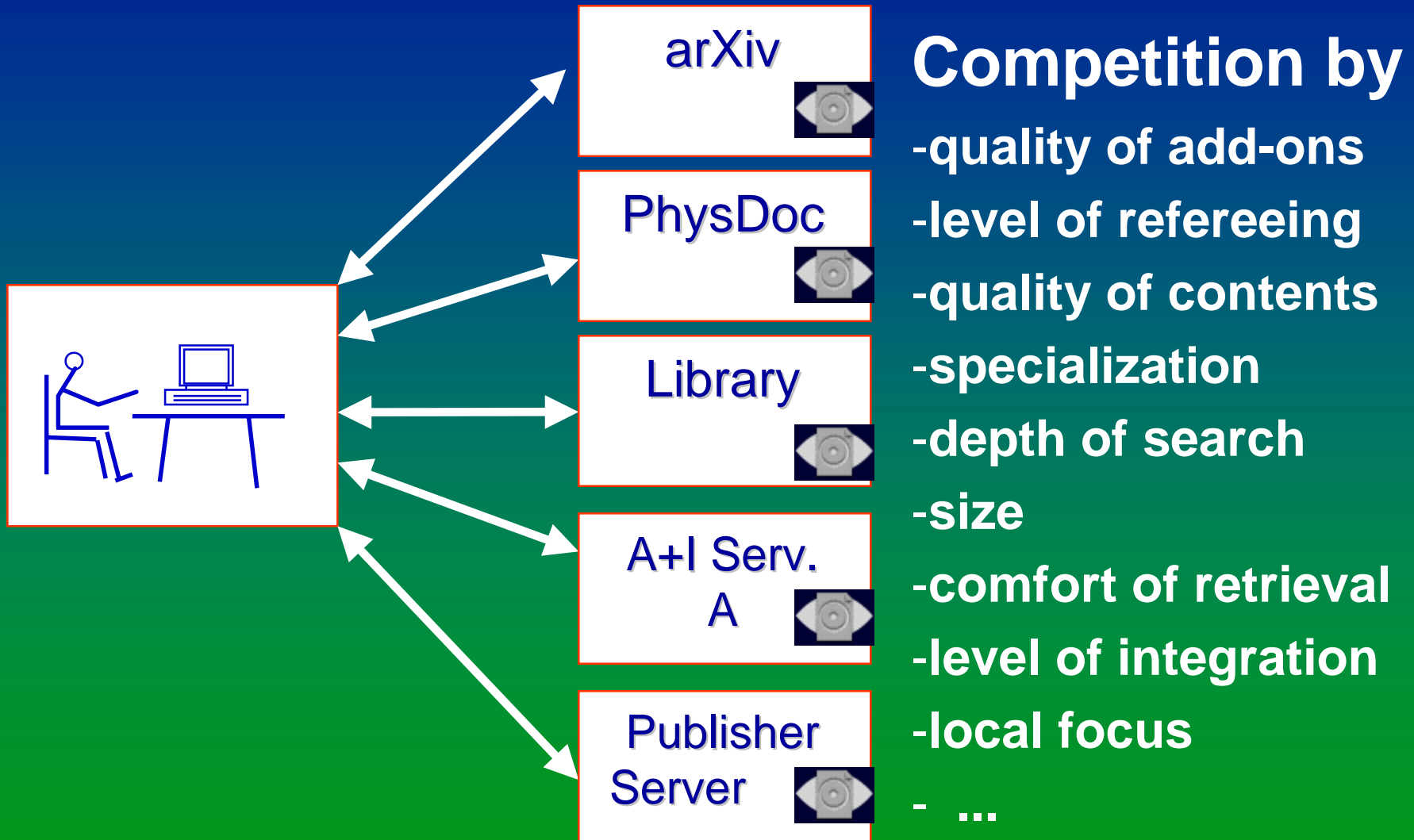
The World of Today: Searching - Retrieving



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



Scenario for Tomorrow: Searching - Retrieving



Advantages of this Scenario

Less work for the author!

Immediate publication!

Most e-prints free for the community!

Open multi-level peer reviewing!

Lower costs for the library!

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

Activities 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 Societiesto 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*