



Other Conference Item

## Print & electronic journal usage patterns a library case study by ETH Zürich

**Author(s):**

Keller, Alice

**Publication Date:**

2002

**Permanent Link:**

<https://doi.org/10.3929/ethz-a-004353877> →

**Rights / License:**

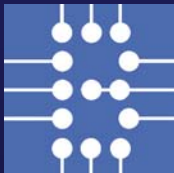
[In Copyright - Non-Commercial Use Permitted](#) →

This page was generated automatically upon download from the [ETH Zurich Research Collection](#). For more information please consult the [Terms of use](#).

# Print & Electronic Journal Usage Patterns: a Library Case Study by ETH Zürich

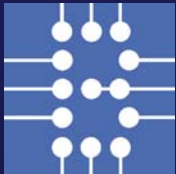
Dr. Alice Keller, ETH-Bibliothek

Elsevier's 4<sup>th</sup> ScienceDirect Annual Conference,  
Amsterdam, 14-15 March 2002



# Journals at the ETH Library

- Print only journals: 2'800
  - Print + online journals: 2'000
  - Online only journals: 1'200
  - Total: 6'000
- } 3'200 e-journals



# Journal Usage at the ETH Library

Journals consulted in reading room

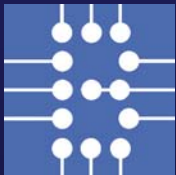
- no data available

Documents requested: 480'000 items per annum

- how many are journals?

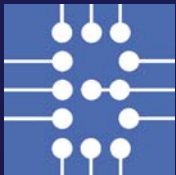
Requests for photocopies: 106'000 per annum

- mainly journal articles

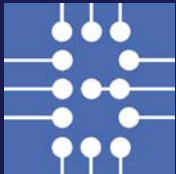
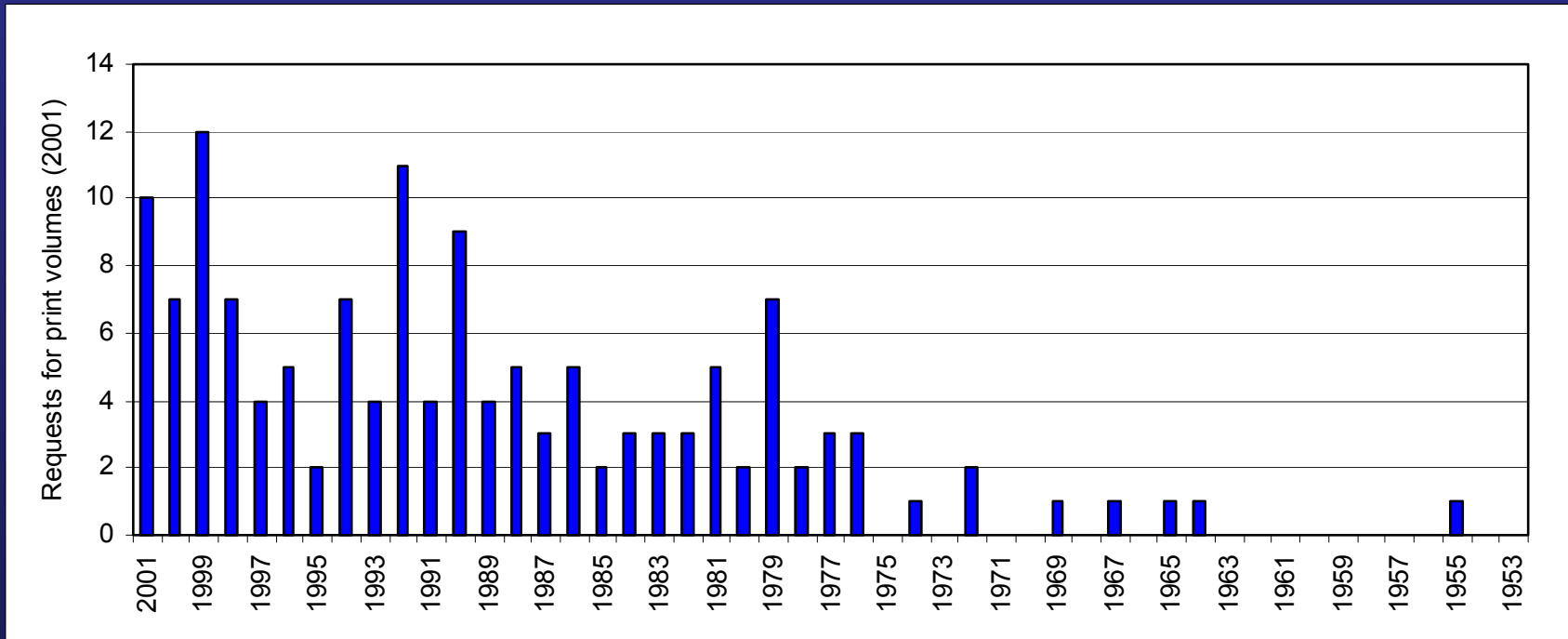


# Print Journal Usage: Selected Titles

- **Planta Medica, Thieme**
  - » 140 requests in 2001
- **Journal of Animal Ecology, Blackwell**
  - » 82 requests in 2001
- **Biochemistry, ACS** ← online
  - » 432 requests in 2001
- **Chemistry of Materials, ACS** ← online
  - » 146 requests in 2001
- **Historia Mathematica, Academic Press** ← online
  - » 17 requests in 2001

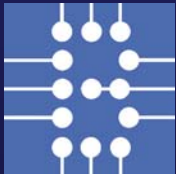
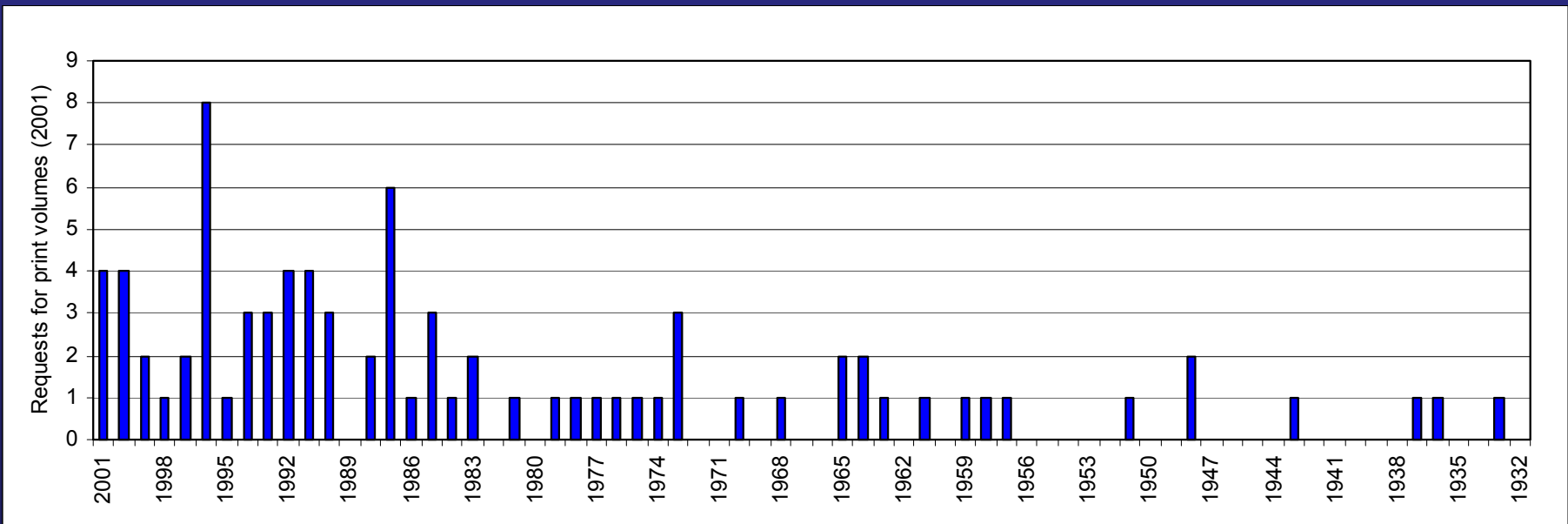


# Planta Medica, Thieme (1953-) Usage Pattern 2001



140 requests in 2001

# Journal of Animal Ecology, Blackwell (1932-) Usage Pattern 2001

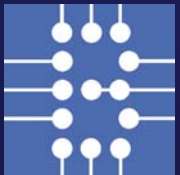
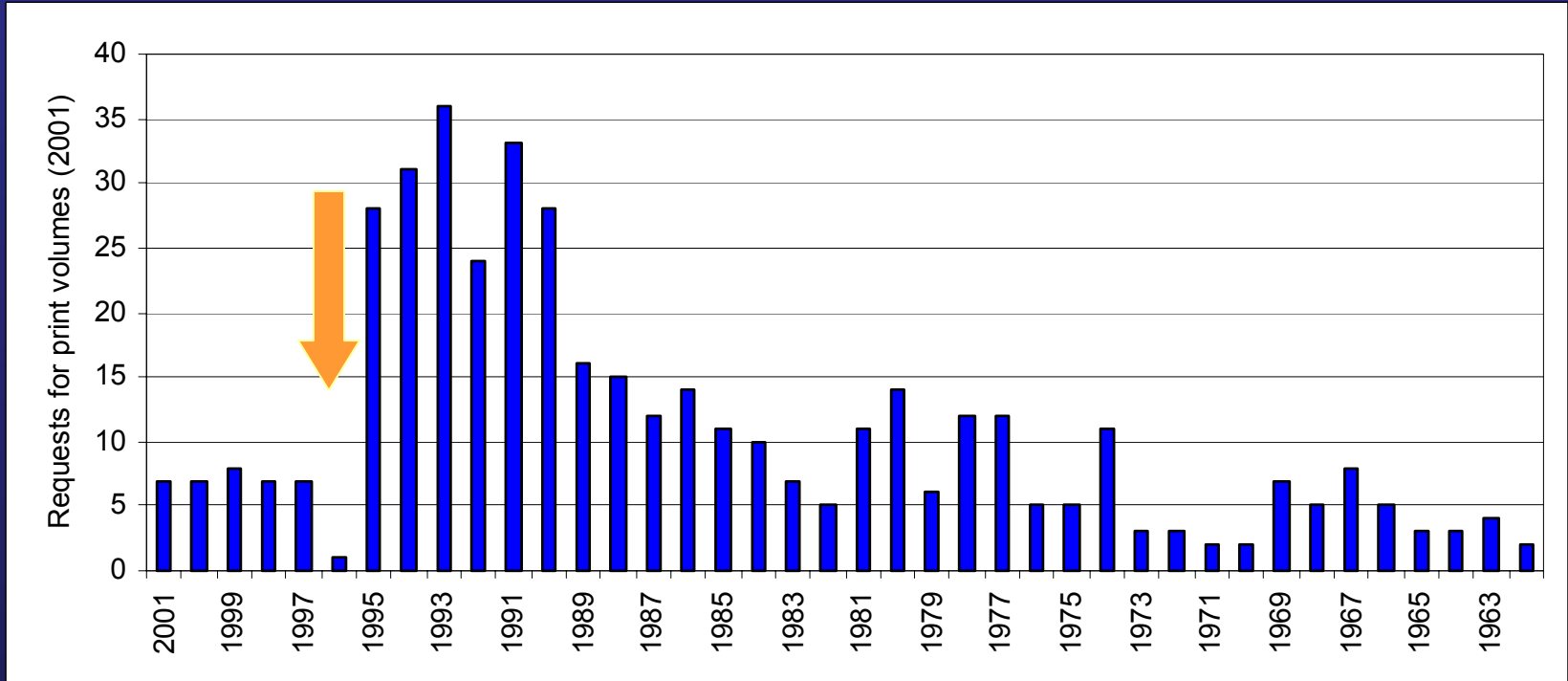


82 requests in 2001

# Biochemistry, ACS (1962-)

(online available from 1996)

## Usage Pattern 2001



432 requests in 2001

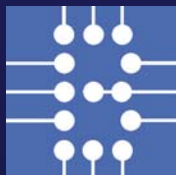
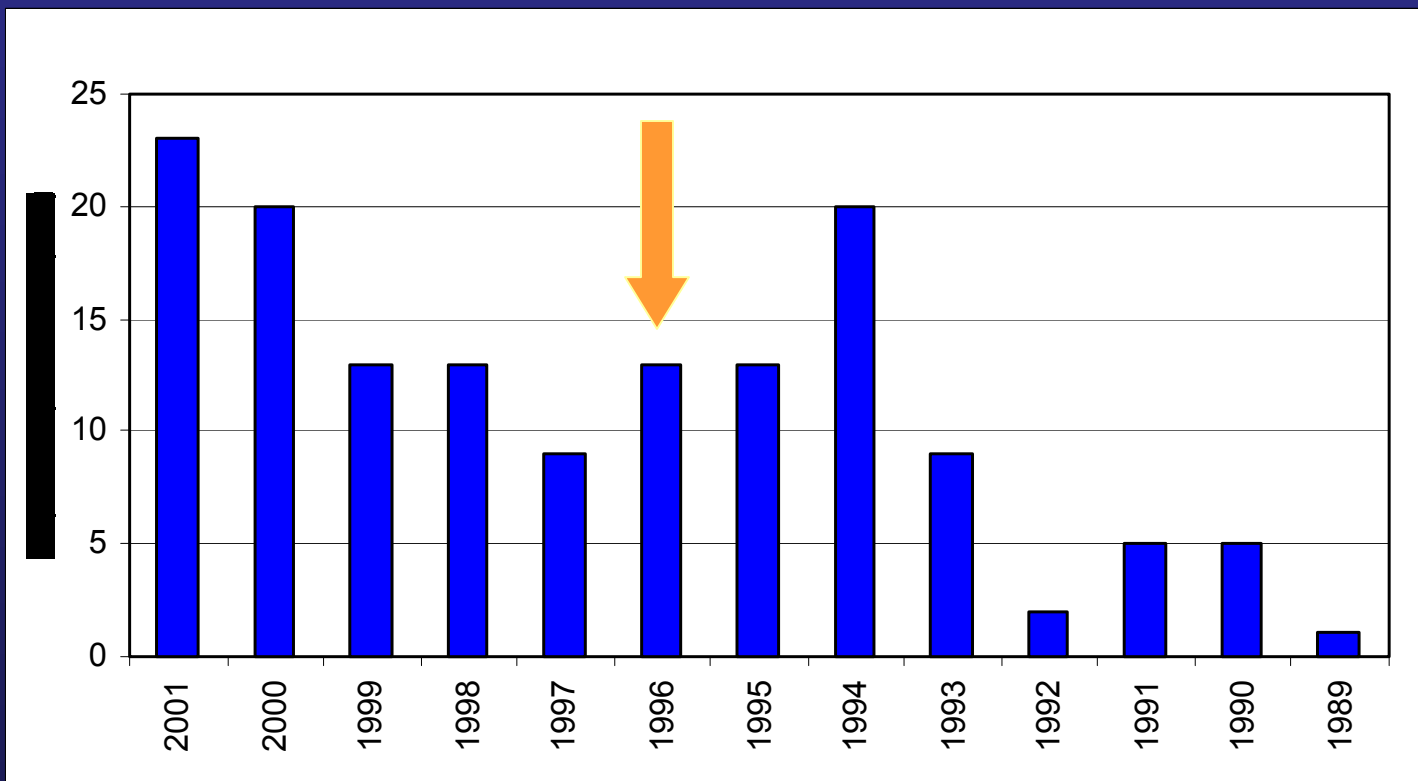
+ 3660 full text downloads in 2001



# Chemistry of Materials, ACS (1989-)

(available online from 1996)

## Usage Pattern



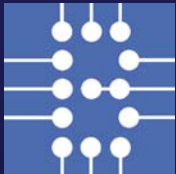
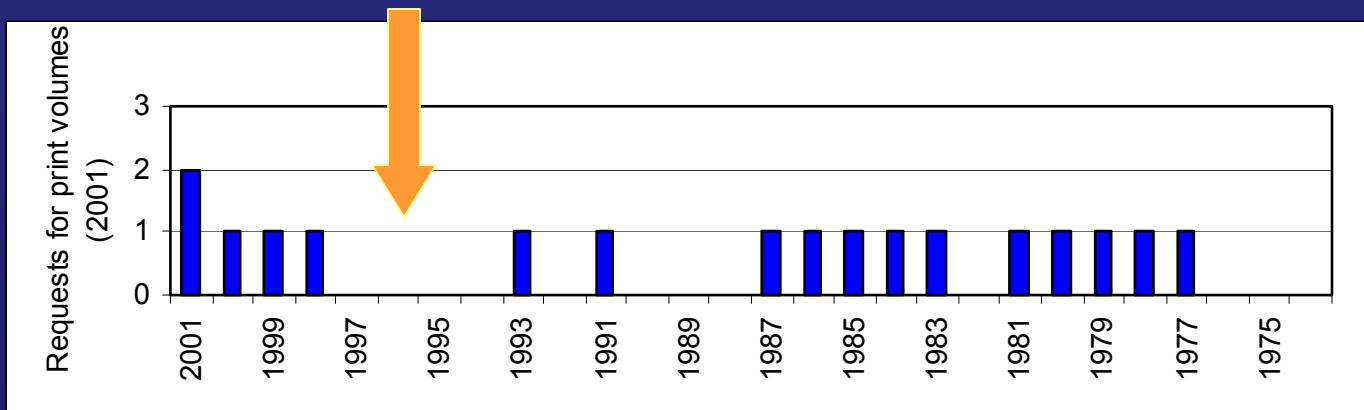
146 requests in 2001

+ 1069 full text downloads in 2001

# Historia Mathematica, Academic Press (1974-)

online available from 1996

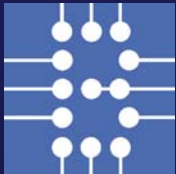
## Usage Pattern 2001



17 requests in 2001  
+ 3 full text downloads in 2001

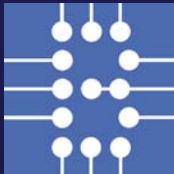
# Print Usage Patterns: Conclusions

- Recent years are most heavily used
- However, backyears are also requested regularly
- Usage stats show roughly 8 times as many full text downloads as print requests (estimate)
- Online access reduces – but does not eliminate – requests for print volumes



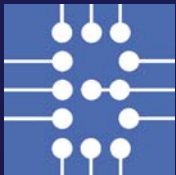
# Electronic Journals at ETH Library

- 3'200 e-journals (January 2002)
- All STM titles
- National consortia for
  - Springer LINK
  - Academic Press
  - Elsevier ScienceDirect

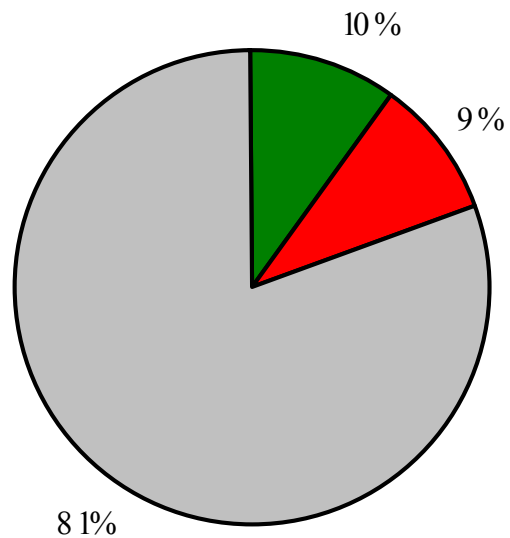


# Usage of Electronic Journals

- Usage statistics available at ETH Library
- Comparison of usage of different journals
- Benefits of journal consortia
- Comparison of journal usage in different subject areas

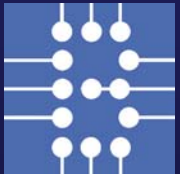


# E-Journal Usage Statistics at ETH Library

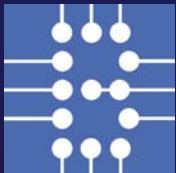
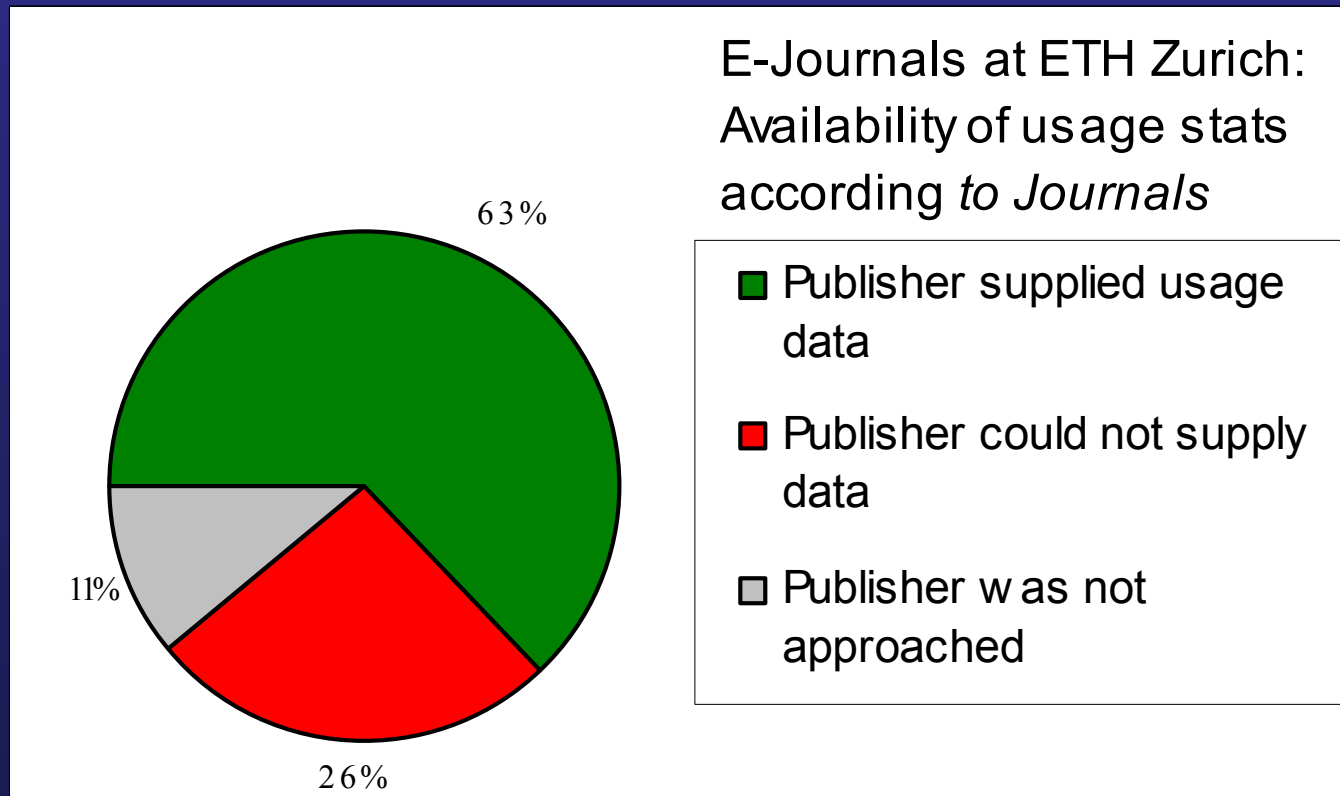


E-Journals at ETH Zurich:  
Availability of usage stats  
according to *publishers*

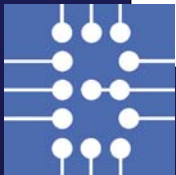
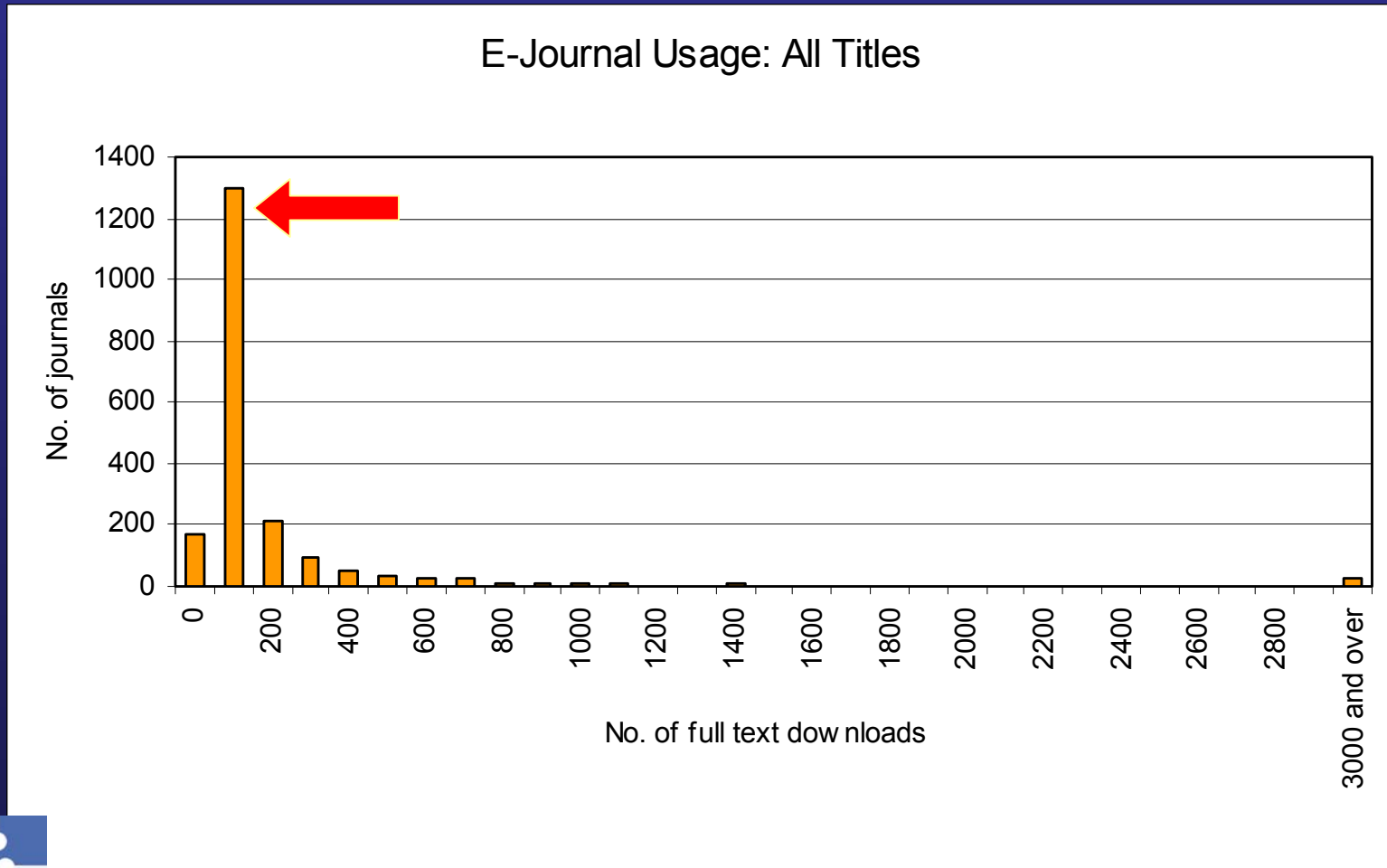
- Publisher supplied usage data
- Publisher could not supply data
- Publisher was not approached



# E-Journal Usage Statistics at ETH Library

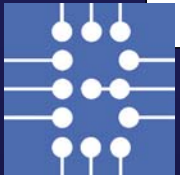
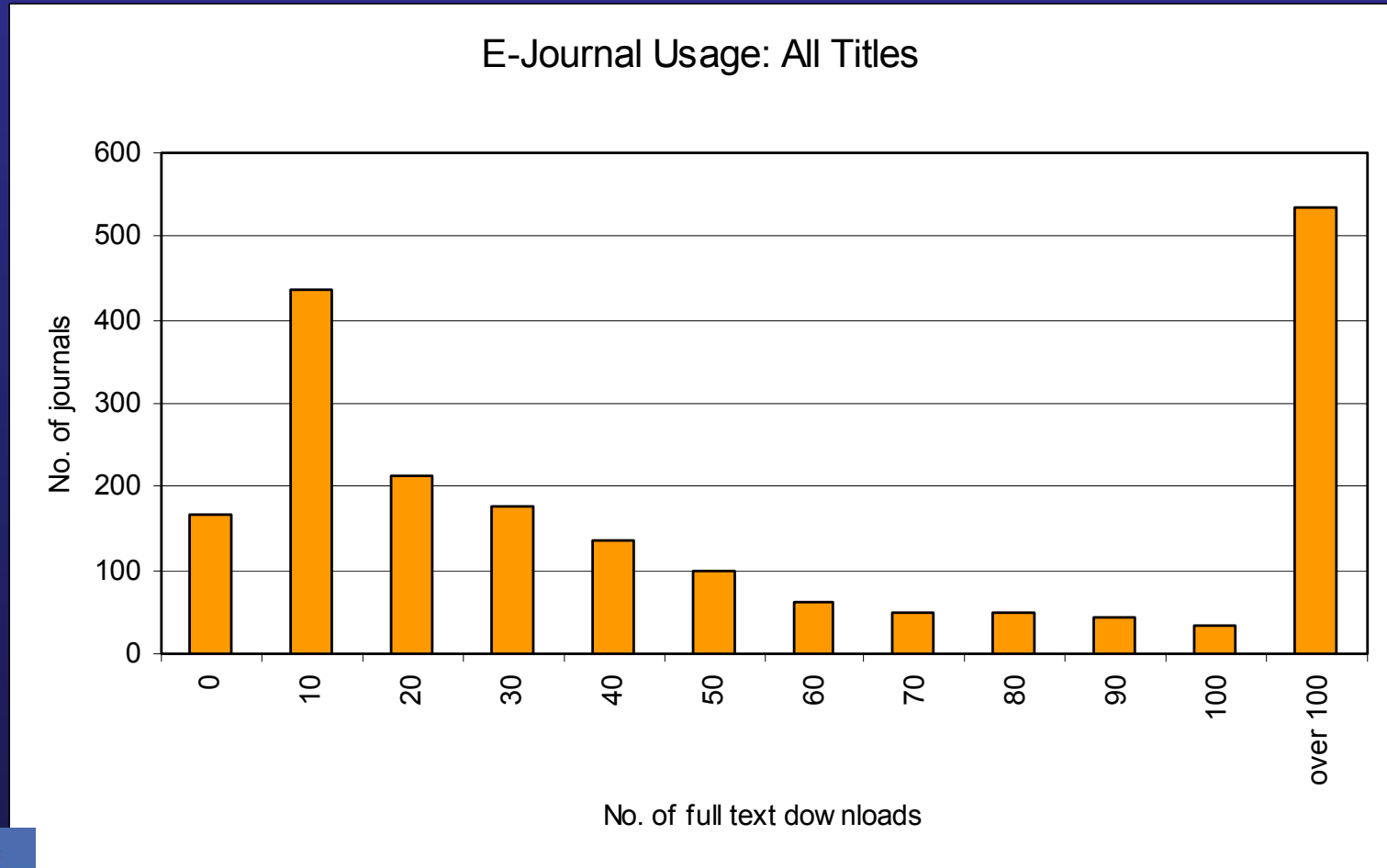


# E-Journals Usage: Summary of All Titles (2001)



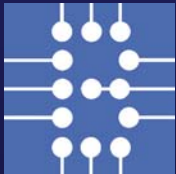


# ... Looking at Those with under 100's Downloads...



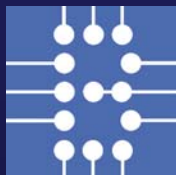
# E-Journal Usage Patterns I: Conclusions

- 8,3% of the e-journals were never accessed during 2001
- A further 53% are not accessed more than 50 times
- 22 journals are accessed more than 3000 times ....



# ... These 22 Journals are ...

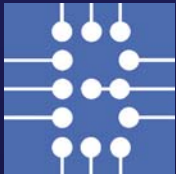
- Science, Am.Assoc.Adv.Science
- Nature, Macmillan
- PNAS, Nat.Acad.Sciences
- Journal of Biological Chemistry, ASBMB
- Journal of the ACS, ACS
- Lecture Notes in Computer Science, Springer
- Journal of Organic Chemistry, ACS
- Cell, Cell Press
- Tetrahedron Letters, Elsevier
- Organic Letters, ACS
- Computers and Security, Elsevier
- Physical Review Letters, APS
- Journal of Chemical Physics, AIP
- Chemical Communications, RSC
- Journal of Physical Chemistry A, ACS
- Physical Review B, APS
- Journal of Cell Biology, Rockefeller Univ. Press
- Biochemistry, ACS
- Nature Biotechnology, Nature America
- Applied Physics Letters, AIP
- Tetrahedron, Elsevier
- EMBO Journal, OUP



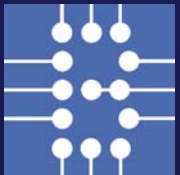
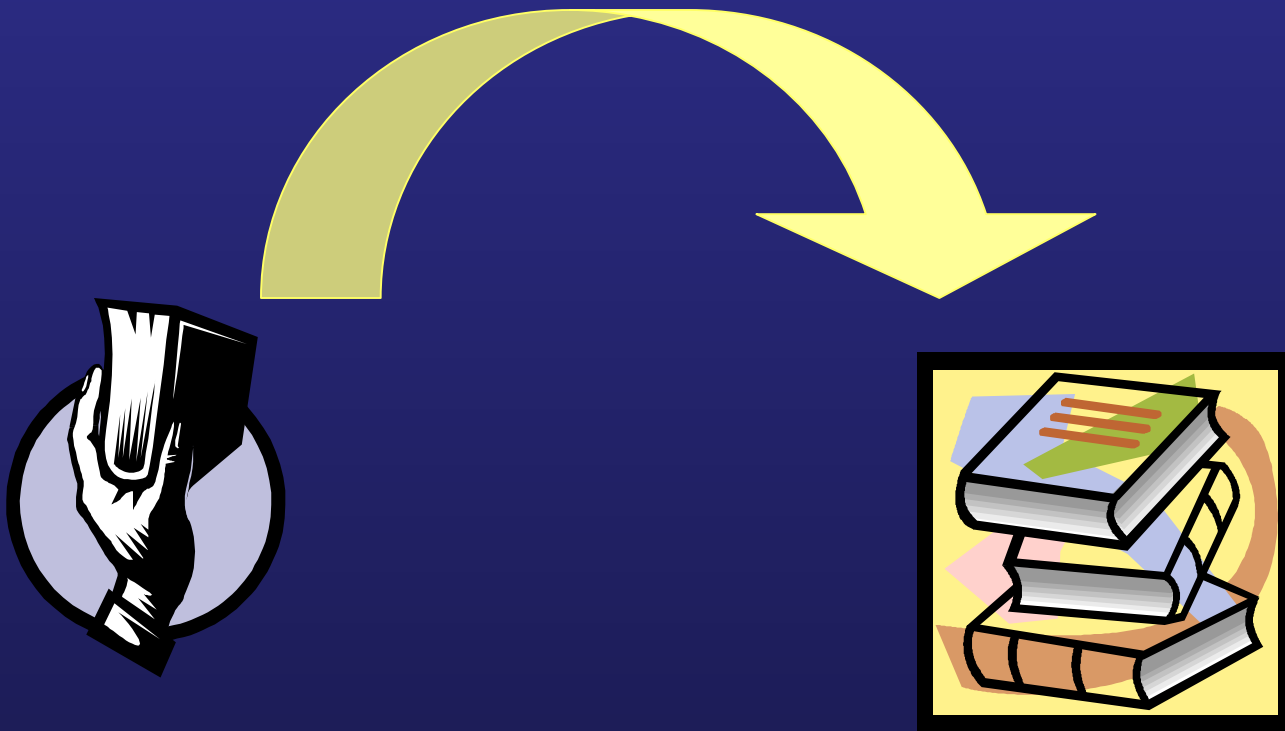
# Benefits of Journal Consortia

A consortium offers:

- New titles that were not available in print
  - Increased Collection
- Access to articles that were not available in print
  - Article Cross Access

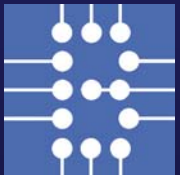


# Increased Collection



A consortium enriches the library's collection with new titles that weren't subscribed to before.

# Article Cross Access

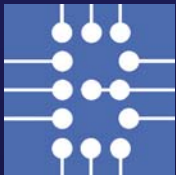


Users can download articles they didn't have access to before.

# Benefits of Consortia according to Subject Area (all data ETH)

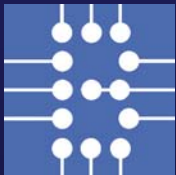
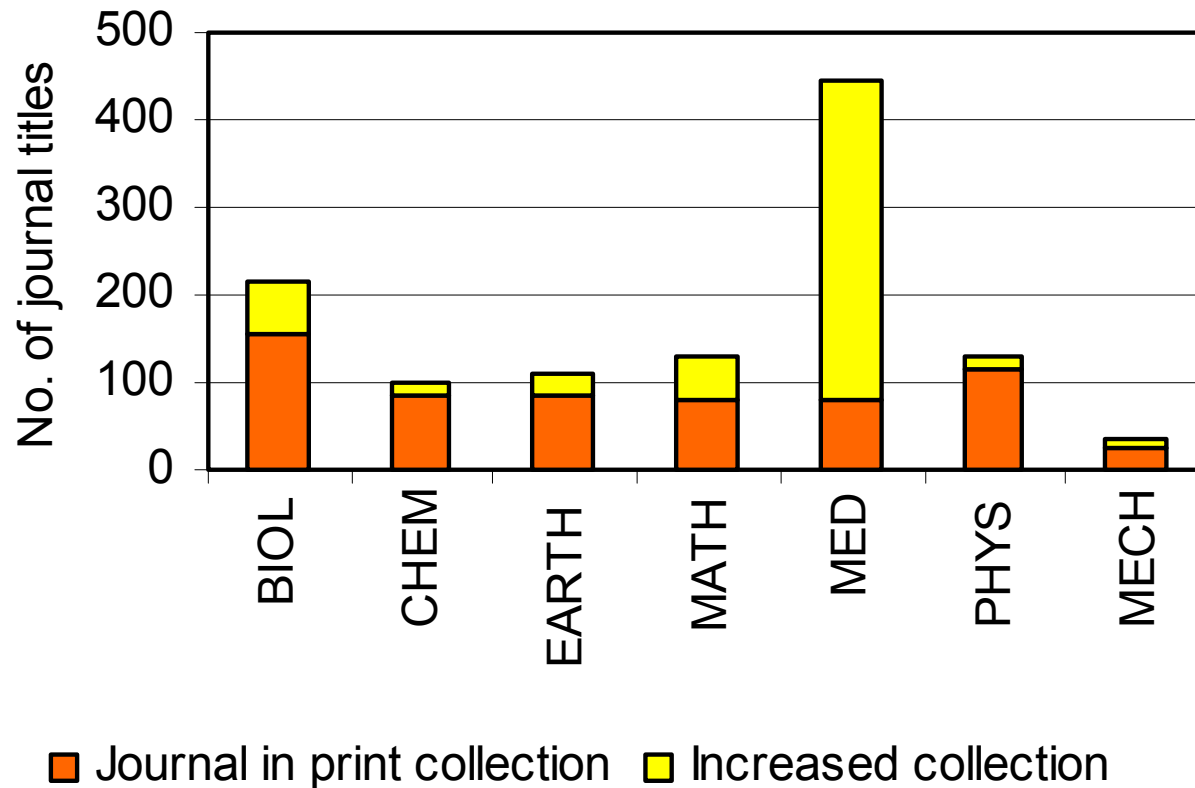
Subject areas analysed:

- Biology
- Chemistry
- Earth Sciences
- Mathematics
- Medicine
- Physics
- Mechanical Engineering



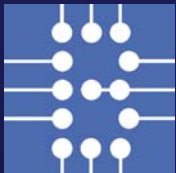
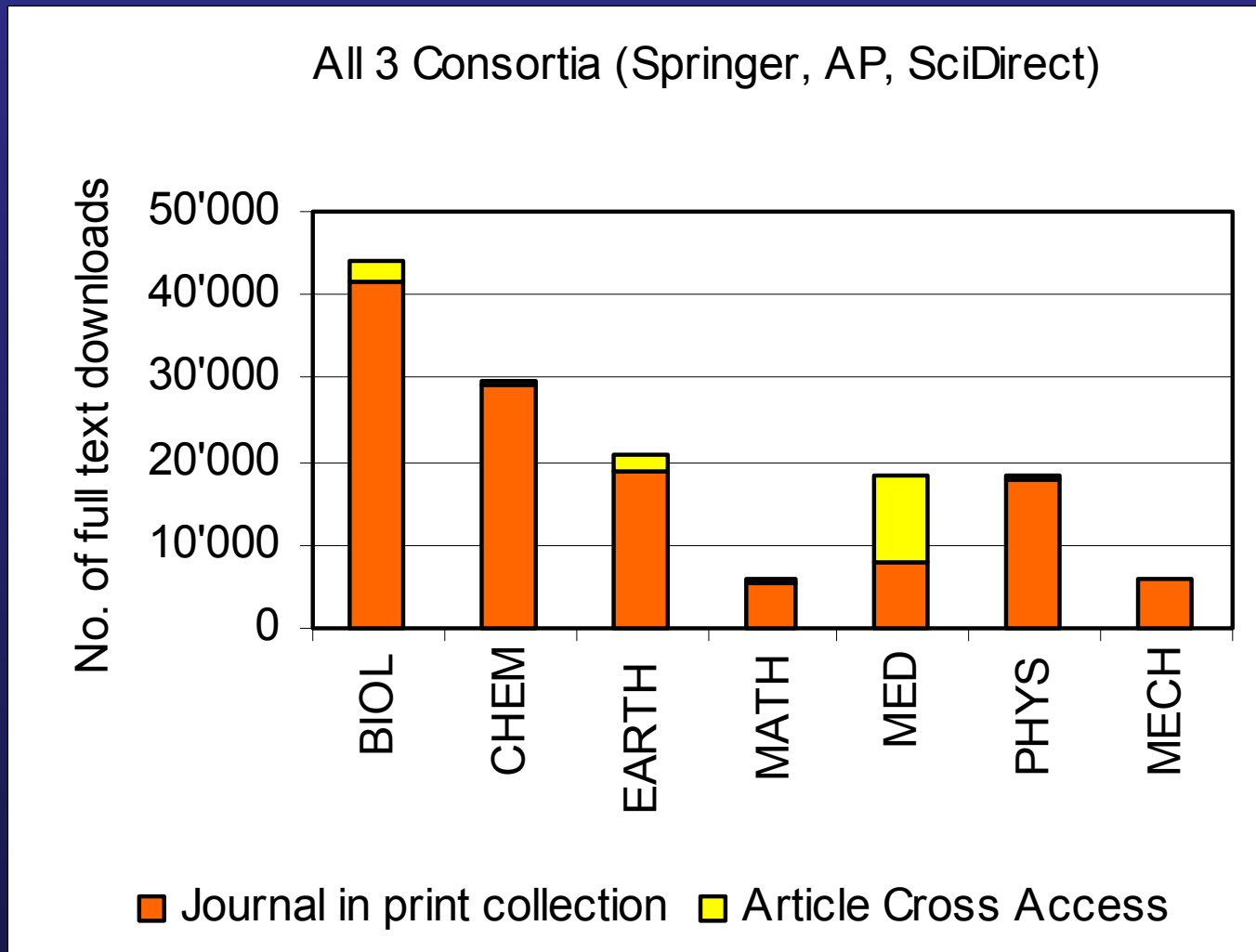
# Benefits of Consortia acc. to Subject Area: Increased Collection (2001)

All 3 Consortia (Springer, AP, SciDirect)





# Benefits of Consortia acc. to Subject Area: Article Cross Access (2001)



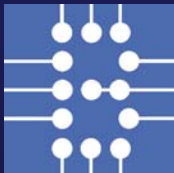
# Cross Access Rates Around the World

- ETH Library: 9-23% (\*)
- Bayern Consortium: 24-31%
- OHIO Link Consortium: 30-85%

(\*) all depending on publisher

A high cross access rate indicates

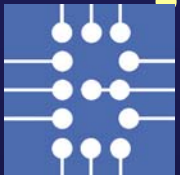
- .... a successful consortium,
- .... or that the print collection was inadequate.



# Comparison of Journal Usage in Different Subject Areas

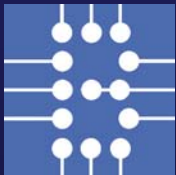
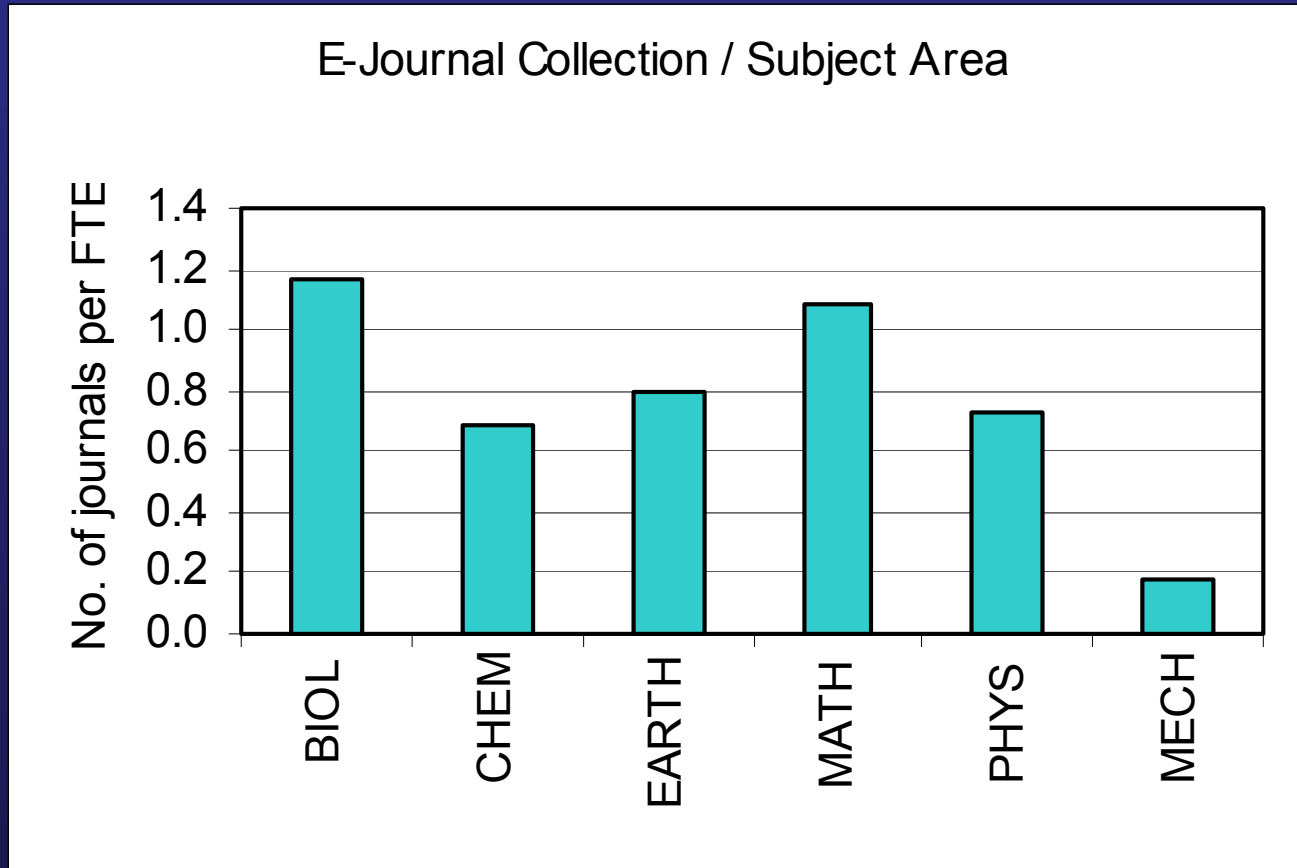
## Subject areas analysed:

- Biology: 380 FTEs
- Chemistry: 340 FTEs
- Earth Sciences: 215 FTEs
- Mathematics: 200 FTEs
- Physics: 385 FTEs
- Mechanical Engin.: 367 FTEs

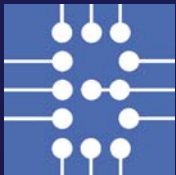
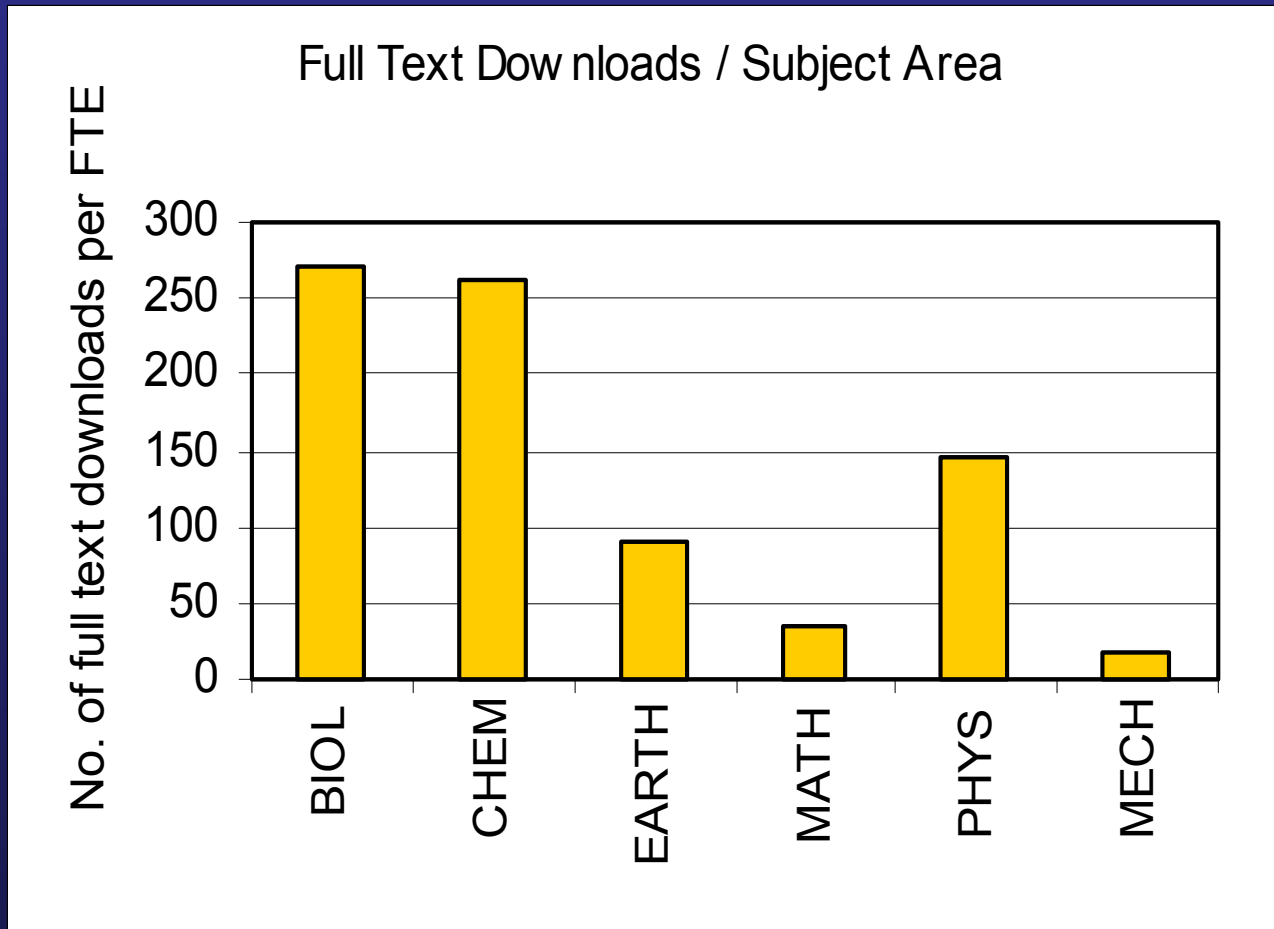


(All faculty members (FTE), doctoral + postdoc students (FTE), advanced undergraduate students)

# Comparison of E-Journal Collection in Different Subject Areas



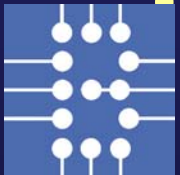
# Comparison of E-Journal Usage in Different Subject Areas



All data from ETH Zurich, Jan-Dec 2001

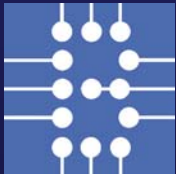
# E-Journal Usage Patterns II: Conclusions

- Usage data is still very incomplete
- Many journals are rarely used, few are very heavily used
- Consortial deals increase size of collection
- Cross access rates vary according to libraries and subject areas
- Heaviest e-journal usage is found in Biology, Chemistry and Physics
- Weakest usage in Engineering



# A final word from the Neue Zürcher Zeitung (22.02.02):

- Lügen
- verdammte Lügen
- Statistik
- Internetstatistik



End

