

# E-journal summit- A brave new world

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# What sort of publisher will you be in 10 yrs?

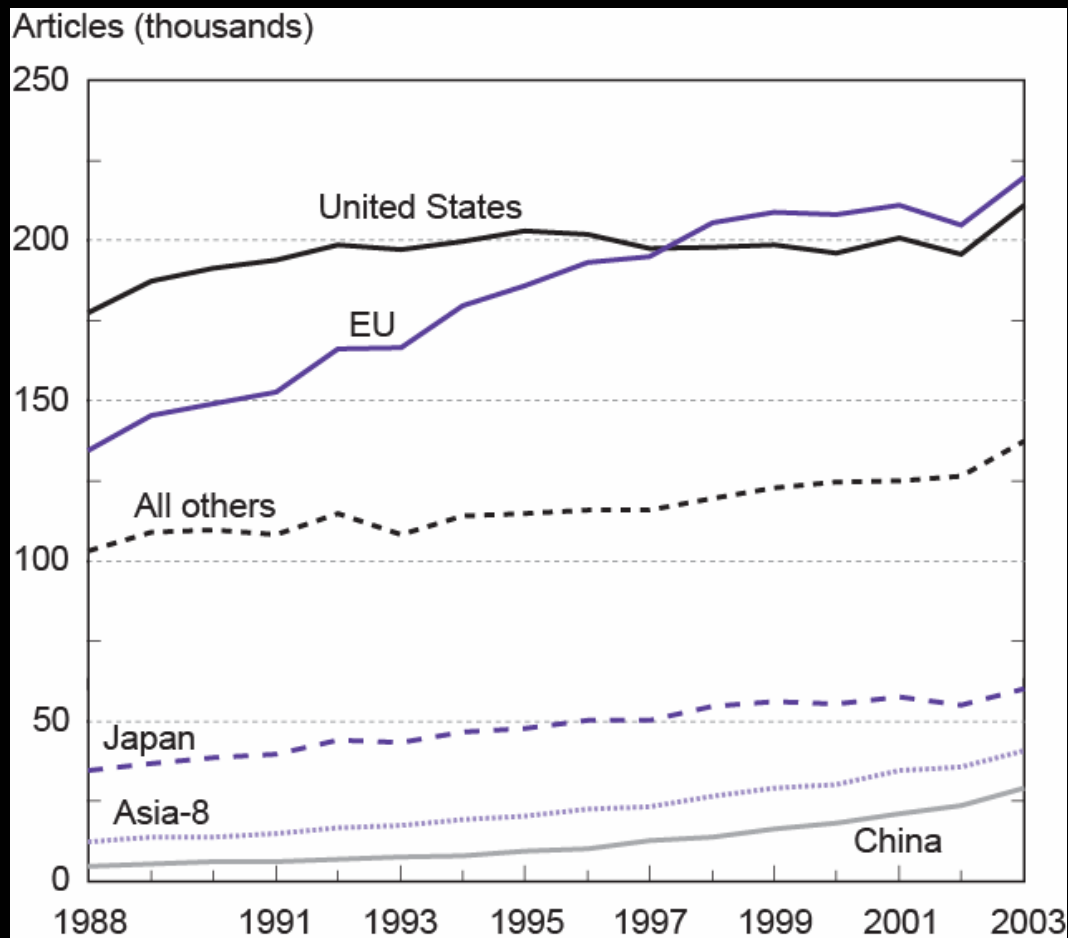
- Farmer – keep the price down or?
- Hunter-gatherer – adding value where the value can be returned

# Making ends meet

- Growth in costs
- More submissions
- More IT cost
- Shift from print to online – at publisher and librarian level
- Growth in researchers

# Scientific and technical articles, by country/region: 1988–2003

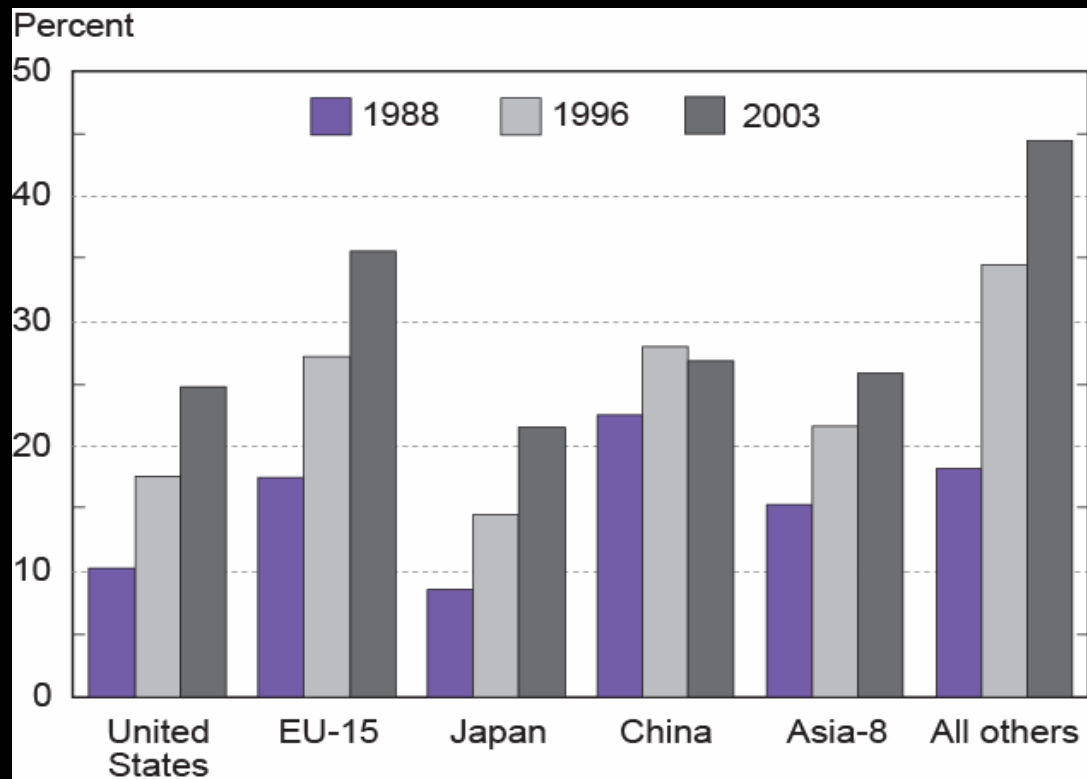
(source NSF: Science & Engineering indicators Feb 2006)



EU = European Union

NOTE: Asia-8 includes South Korea, India, Indonesia, Malaysia, Philippines, Singapore, Taiwan, and Thailand.

# International co-authorship, by country/region: 1988, 1996, and 2003 (source NSF: Science & Engineering indicators Feb 2006)

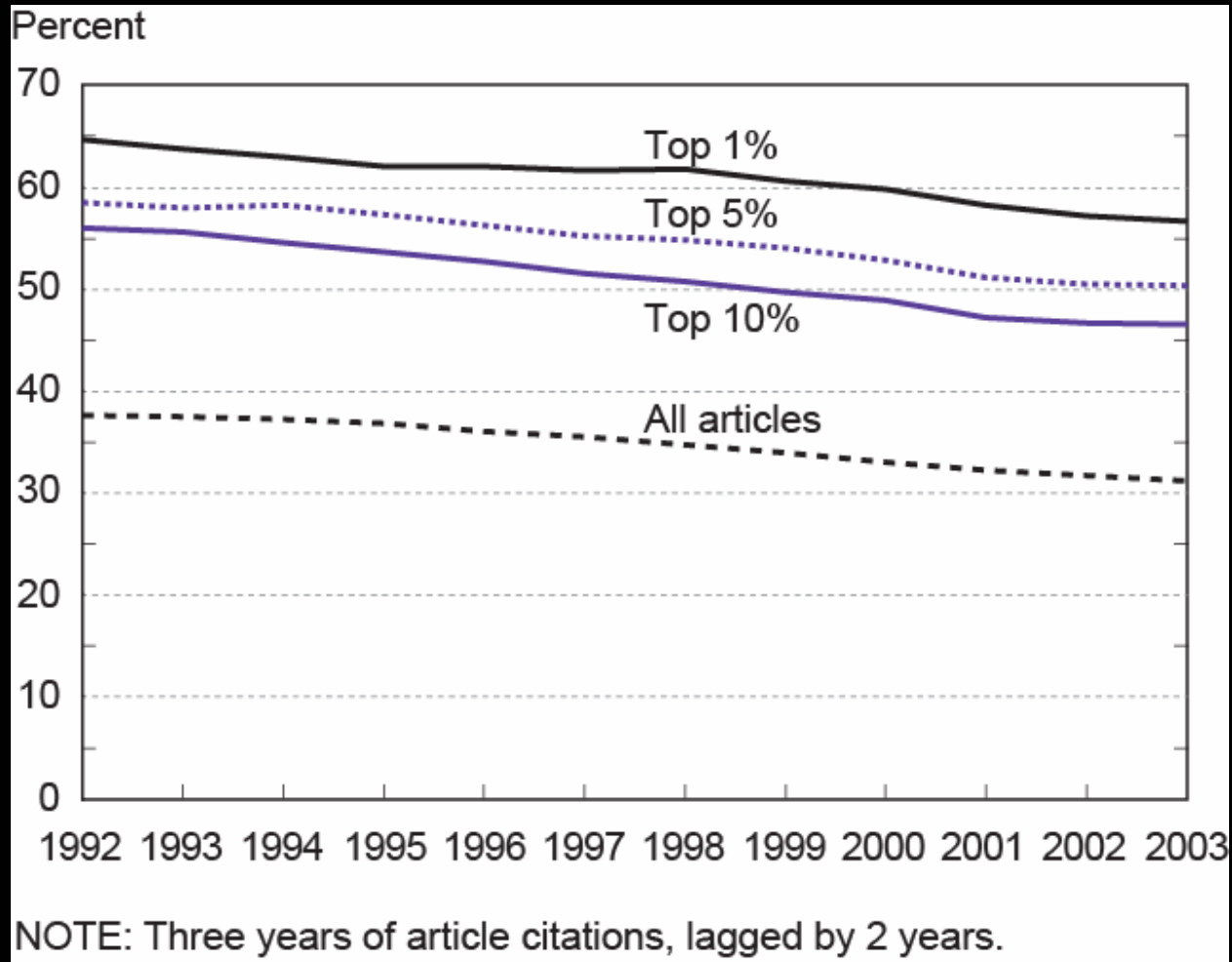


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# Share of U.S. articles among most-cited articles, total Science & Engineering: 1992–2003

(source NSF: Science & Engineering indicators Feb 2006)



# Print

- Savings ~ 15% or more?
- Print on demand
  - At users PC
  - Delivered to the library
- System costs of print for libraries are different
- Archiving of online

# Interdisciplinary research

- Data set integration
- Discovery
- Radial journals – journal ‘suspended’ within data sources of all types



# Who pays and what?

- Starting new journals within existing pricing models ~ consortia
- Payment models
  - Tiers
  - “Big Deal”
  - Authors/funding agencies
  - Sponsors
  - Hybrid model
- Mixed model by discipline and by journal
- CIBER study 2005 – segmented data
- Public access to science information

# Getting the word out

- OA articles are cited more → but certain articles are selected to be OA
- OA journals cited more?
- Globalization and responsibility to improve access
- Patient Inform- medical information
  - Editorial work – what will be required?
  - Who pays?
  - Mediated link

# One step beyond - technology as the reader

- Google reads the journals not humans!
- Technologies coming through to support mining of the scholarly corpus of text
- IP issues – who owns the results?
- Currently transactional usage -> interrogation by computation

# One step beyond- e-science

- Networked multidisciplinary collaborative communities
- Data deluge
- E-infrastructure – Cyber-infrastructure to support this
- Repositories of national data – who maintains them?
- Community refereeing -Blogs, Wikis etc.
- OA here to stay...

# One step beyond

- Shortage of time- help users to find relevant content
- Skim views of content
- Data has to become part of research article
- Provide tools for authors to do much of work

# One step beyond- peer review

- Quality assurance main challenge
- Closed peer review insufficient-> collaborative peer review
- OA enables collaborative peer review
- Two stage process: Scalability-  
Participation levels
- Alternatives to traditional peer-review?
- Rewarding reviewers

# One step beyond- past, present, future

- Much achieved: 100%/year growth in use
- Changes beginning: Funding agencies, institutions, authors, search engines, Google print etc.
- Not happening: Online ads, true online collaboration, non-visual media, disappearing web sites, **breaking out of print based models.**
- Barriers: Too early/late standardization, comfort with existing models?

# One step beyond- “there” is happening faster

- RSS -> “there”
- Scientists -> inquisitive and exploratory
- Experiment -> rapid application
  - End-users -> how are using your information?  
generational issues
  - Podcasts -> 20,000 listeners per issue – one of the next “there”s?



# The Politics of Publishing

- National (and international) security implications of articles published
- Role/responsibilities of Publishers and Editors
- Biosecurity: {See:nsabb}
  - Global advances double-edged sword-post 9/11
  - Media and congressional attention
  - Mitigate misuse – Summer 2005- huge committee
  - Communication issues -> Bioterrorism, safety but....
  - Interferes with free speech, represses innovation
  - Enhance communication – with the public about how science done

++OFAC- penal laws

# A final reminder

