



LIFE Conference

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The Researchers' Perspective

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Researchers' Perspectives

- *The UK Research Community*
- *Their Interest in Digital Preservation*
- *Publications and Other Research Outputs*

The UK Research Community

Higher Education

- c 75,000 researchers
 - 26% life sciences and medicine
 - 26% physical sciences and engineering
 - 48% social sciences, arts and humanities

Government and Industry

- c 116,000 researchers

Researchers = 0.6% of the UK workforce

- US and Japan 0.9%
- EU average 0.5%

Library staff in UK

- c 10,000 staff in academic libraries, of which c 3,000 professional staff
- CILIP membership 14,644 (2003-04)

Expenditure on Research and Development

UK Government Expenditure

- £11,055m total
- £5,227m Research Councils and Higher Education Funding Councils
- £2,523m Government Departments (civil) and EU
- £3,345m Defence

UK Total Expenditure

- c £21,000m (\$30,000m)
- US Expenditure \$275,000m
- German Expenditure \$53,000m
- UK accounts for c4.0% of OECD expenditure on R&D

Researchers' Interest in Preservation

- *Researchers are both producers and users of information*
- *The dissemination and knowledge transfer imperatives*
 - ▣ *Bibliometrics, career progression and the assessment of research quality*
 - ▣ *Responsiveness and links between the research base and the economy*
- **Access through delivery to the desktop**
 - ▣ *Metadata, provenance, citation linking, authenticity and version control, common platforms and interoperability*

Publications and Other Outputs

Production

- UK produces c70,000 articles annually
- c 15,000-20,000 journals worldwide
- c 1m articles published annually
- growth rate of c 3-3.5% annually

Citation





- UK accounts for c 12% of global citations
- Huge disciplinary differences, but
 - c 10% of papers never cited in another paper
 - citations continue to accumulate for c 8 years

Data and Other Outputs

- *E-science and the data deluge*
- *Images, performances, sounds, software*
- *11.5bn pages on the publicly- indexable Web 2005*
- *“I can get access to my own data; what I want is access to other people’s data”*





Data and E-infrastructure

Increasing interest in how to preserve and provide access to research information

-  *UK E-Infrastructure Steering Group*
-  *OECD Ministerial Declaration on Access to Data from Publicly-Funded Research*
-  *US CyberInfrastructure Report and NSB Report on Long-Lived Data*
-  *Australian Research Information Infrastructure Committee*

Key Goals and Principles

Ideas and knowledge derived from publicly-funded research should be made available and accessible for public use, interrogation, and scrutiny, as widely, rapidly and effectively as practicable

-  *explicit rules and codes of practice*
-  *standards, quality assurance and peer review*
-  *access in a managed environment*
-  *efficient and cost-effective use of public funds.*