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Challenges for Libraries in Difficult Economic Times: Evidence from the UK

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Abstract

The last decade has been a period of unprecedented change for university libraries. The rapid growth in numbers of students and staff across the university sector has been accompanied by the move to a substantially digital environment with some fundamental changes in how libraries and their users operate. During this period, most university libraries have seen continued growth in their budgets in real terms, but libraries now face a period in which they will have to cope with continued rapid, perhaps transformational, change, accompanied by reductions in their budgets. This paper is based on evidence gathered and analysed by the Research Information Network on the financial position of university libraries in the UK, and how they are dealing with the prospect of cuts. It highlights two related challenges for libraries: developing and enhancing relationships with their users, and developing new services to maximise their value to users.

Key Words: libraries; library users; finance; digital; university

Introduction

The last decade has been a period of unprecedented change for university libraries. The rapid growth in numbers of students and staff across the university sector has been accompanied by the move to a substantially digital environment with some fundamental changes in how libraries and their

users operate. Further change is on the way, with unpredictable implications for students, academic staff, and for libraries.

As they have responded to new developments over the past decade, and changed their operations, most university libraries have seen continued growth in their budgets in real terms. The next few years are likely to prove much more difficult in financial terms. Libraries therefore face a period in which they will have to cope with continued rapid, perhaps transformational, change, accompanied by reductions in their budgets.

This paper is based on evidence gathered analysed by the Research Information Network on how university libraries in the UK in particular are dealing with this new situation. It highlights two related challenges for libraries.

First, users' demands for content have increased enormously over the past decade, in response to the greatly increased supply of content available to them 24/7. But the demand is unrelated to price, because users — at least in the UK — do not pay; the library does. At the same time, many users — particularly academics — believe that libraries and the services they provide have become less relevant to their needs. Hence many are less willing than previously to see library budgets sustained at the expense (as they see it) of their own departmental budgets. Disintermediation thus has the power to hit libraries in a number of different ways, and a key challenge is to develop and enhance relationships between libraries and their users.

Second, research libraries in particular face a tension between sustaining their traditional roles of looking after and providing access to scholarly content on the one hand, and providing more content and new services in a digital environment. In what remains a hybrid world, at least some of the traditional roles remain valuable to many users. But developing new services is essential if libraries are to maximise their value to users in a rapidly-changing world.

Budgets and Finance

Between 1998 and 2008, expenditure on all university libraries in the UK grew by 30% in real terms, with even faster growth — at nearly 48% — shown by the libraries of the research-intensive universities represented by Research

Libraries UK (RLUK).² Numbers of staff and students also increased, however; and income and expenditure on research grew even faster. Hence, as shown in Figure 1, the proportion of total university expenditure that went to support libraries fell: from 3.4% to 2.8% across all UK universities, and from 3.2% to 2.6% across the RLUK libraries. So libraries represent a declining share of university budgets.

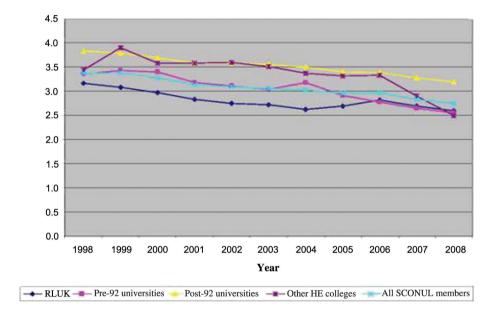


Fig. 1: Library expenditure as a percentage of overall institution expenditure 1998–2008.

Over the past two years, however, libraries have begun to experience a much harsher financial climate. A survey for the Charleston Observatory in 2009 showed that libraries across the world were facing cuts. In the US, the growth in library budgets in the years up to 2008 seems to have been somewhat slower than in the UK: statistics from the ARL suggest that its university members saw an increase of 12% in real terms in their budgets between 2001 and 2007. But two-thirds of them experienced cuts in 2008–09 and 2009–10, with a mean of 5% and a maximum of over 20%. The Charleston survey³ showed a similar picture, indicating that over 45% of US libraries had experienced cuts in 2009, and over 40% were anticipating cuts in future years.

As shown in Figure 2, budget cuts have been rather slower to arrive in the UK, but over 53% of libraries expect cuts in 2010–11. And they are especially gloomy about prospects for the future, with nearly 57% predicting further cuts in 2011–12. In such circumstances, there is renewed attention to the balance of expenditure between staffing, content and services. The proportions of library budgets spent on these three key elements vary hugely across the university sector in the UK, as we shall see, but there is a widespread view that in libraries where staff represent a relatively high proportion of expenditure, that proportion will have to fall.

Charleston Observatory library budgets survey How do you expect your total library budget next financial year to compare with this year? Note 1: Inflation is excluded. USA Note 2: The figures are percentages within each country. Down 20% or more 4.4 0.0 No statistical - USA - UK difference between the Down 15% 19 36 USA and the UK. Down 10% Down 5% 13.7 21.4 Down less than 5% 9.6 8.9 ABOUT THE SAME Up less than 5% 7.4 5.4 Up 5% 2.2 3.6 Up 15% 0.0 0.0 Up 20% or more 0.0 0.0 -5% <-5% SAME <+5% +5% +10% +15%

Fig. 2: Expectations of Budget Cuts.

Searching for Savings

In seeking to address the new economic situation, library directors are planning to make cuts in services, staffing, infrastructure and content provision.

Staffing

Staffing represents over 50% of expenditure overall across all UK university libraries, although there are significant differences between individual libraries — proportions vary between under 30% and over 70% — and groups of libraries. The proportion tends to be highest in smaller colleges and in specialist institutions. Across all UK libraries, staff numbers rose by about 15% between 1998 and 2008, and, as shown in Figure 3, expenditure on staffing rose in real terms even faster, by over 30%, with the sharpest rise — at 45% — in the research-intensive universities. Again, however, it should be noted that the numbers of academic staff and students — the prime users of university libraries — grew almost twice as fast as library staff numbers in this period.

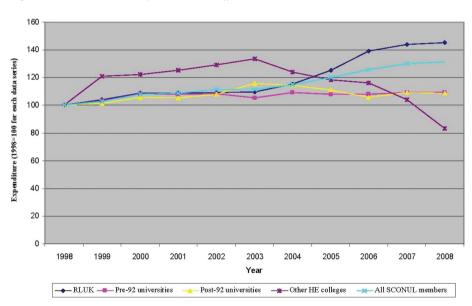


Fig. 3: Indexed real terms expenditure on staff 1998–2008.

In a context where the demands on libraries and their staff have increased, UK university library directors believe that their staffing levels have already been pared down. But senior managers in universities in the UK and the US are planning cuts in staffing, including academic staff, and it is not surprising that they see scope for cuts in libraries too. Hence nearly three-quarters

of UK library directors — a significantly higher proportion than their US counterparts — believe that they will have to make cuts in the numbers of library staff.

But doing more with fewer staff represents a significant challenge for library directors, and many have spoken of the need to think in terms of re-engineering and introducing new staffing structures in order to help in ensuring that they focus resources on those areas that have the biggest impact: speedy delivery of the information resources and services that accurately meet the needs of students and academics. Reductions in staffing levels should thus ideally be based on increased understanding of the relationships between activities, costs and impact, and be combined with more effective performance management so that library staff have a clear view of their roles, along with a willingness to take on new ones and to learn new skills.

Libraries are familiar with the experience of restructuring, for example in merging with IT services. But there are tensions between the desire for fully thought-through re-engineering to deliver more effective and efficient performance on the one hand, and the need to reduce staff numbers quickly in response to budget cuts on the other. Evidence so far is that the favoured methods for achieving cuts in the current crisis is by introducing recruitment freezes and not replacing staff who leave.

Services and Infrastructure

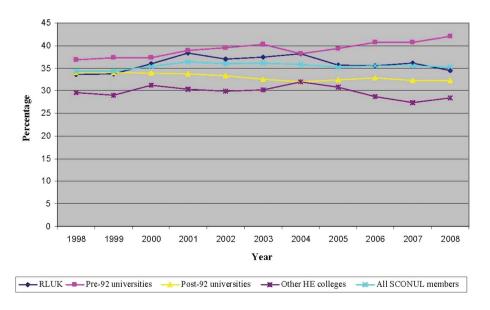
Service levels are of course closely related to staffing, but librarians are understandably reluctant to cut services to staff and students. Responses to the Charleston survey and focus group discussions, however, show that UK library directors across the sector believe that budget cuts at the levels they are being asked to consider cannot be achieved without a significant impact on services. Reductions in opening hours, particularly at weekends and during vacations, are options being considered by many libraries, and some directors wonder whether they can sustain the 24-hour opening that has become common, especially during the exam season. Some libraries are already reducing opening hours, even though this is unwelcome to many students.

Other options being considered include reductions in subject support for academic staff and students, and in information skills training, in addition to cuts in the purchase of books and of journals. And budget cuts many make it difficult to sustain newer developments such as promoting changes in scholarly communications, or supporting the information gathering required for research assessment purposes. It is also clear that some libraries are postponing IT and other projects for the development of their infrastructure of services, along with plans for new building work.

Information Content

Expenditure on information content of all kinds represents about 35% of all library expenditure across the UK university library sector, and that proportion has been relatively stable over the past decade. At a number of universities, there have been policies to protect the budgets for information resources above all else, partly in order to sustain and improve the student experience. Again there are significant differences between individual libraries and groups of libraries, essentially representing the mirror image of the different proportions of their expenditure accounted for by staff. The proportion tends to be highest — at around 37% — in universities established before 1992, although it is slightly lower among the most research-intensive universities.

Fig. 4: Information provision expenditure as a percentage of overall library expenditure 1998–2008.



The relatively stable proportion of expenditure on content implies, of course, increases in actual expenditure in real terms. But here experiences differ across the sector, as shown in Figure 5. In the research-intensive universities expenditure rose by 52%, but in the newer universities, after rising by 5% in the years up to 2002, expenditure on content has actually declined in real terms since then, and in 2008 was actually 2% lower than it was in 1998.

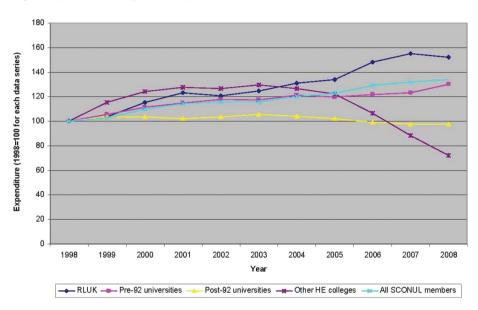


Fig. 5: Expenditure on information provision 1998–2008.

Books

Expenditure on books, both printed and electronic, fell from 12% to 9% of overall library expenditure across all UK universities between 1998 and 2008, and actual expenditure fell by 10% in real terms. These falls occurred even though students have a powerful voice in demanding that universities should provide access through their libraries to the books included on course reading lists. US university libraries experienced similar falls, though it should be noted that US students are generally more prepared than their UK counterparts to purchase copies of key texts for themselves.

There is a widespread belief — or hope — that e-books may ease the problems that libraries face in meeting the demands for books — particularly for text-books and course readers, and important experiments are under way in the UK in the form of an e-books observatory project. ⁴ Many librarians express a sense of inevitability about a transition to e-books, and this feeds a view, represented in the Charleston survey and in RIN focus groups, that cuts in their provision of content will fall disproportionately on printed books.

But librarians are also aware of the constraints against a wholesale move to e-books. Many monographs and other books are not yet available electronically; business models and publishers' policies on pricing and accessibility are complex, inconsistent and difficult to comprehend; and despite the arrival of the i-pad and other devices, the technical problems relating to reading long books on screen have not yet been resolved to universal satisfaction. It is thus difficult for libraries to customise collections to meet the needs of their users, and the many different platforms for e-books make it less than straightforward for libraries and users to navigate through the various interfaces. These constraints, coupled with concerns about preservation of scholarly materials in digital form for the long term, have limited the take-up of e-books; and there is also a widespread view that libraries need to work together with publishers to promote innovative thinking on new models and routes to content.

Journals

It is well-known that expenditure on scholarly journals and other serials has risen fast in recent years. Across the UK it rose by 59% between 1998 and 2008, and by 87% in the research-intensive universities. It now represents nearly 19% of overall library expenditure, having risen from just over 15% in 1998, and in many well-established university libraries it accounts for over a quarter of the overall budget.

Big deals have increased enormously the range of titles available to members of universities in all parts of the sector. They have also changed expectations. Readers — academics in particular — now expect to have immediate access to most of the journals in their specialist area, and libraries find that nearly all of the titles to which they now subscribe are read, even if only by small groups of readers. Any suggestion of major cuts in the portfolios of journals to which libraries subscribe thus gives rise to vocal hostility.

Nevertheless, there is a widespread belief that current levels of journal provision may be unsustainable, especially for some smaller institutions and those which are teaching-led. There is intense pressure to reduce costs by abandoning print copies of journals, and cancelling subscriptions to lowly-used titles. Libraries are thus looking intensely at usage data before making decisions on renewals, and in some less-well-funded institutions especially, the prospect is that some big deals will be cancelled.

Libraries are also looking very closely at the costs of the big deals and how they might be reduced, for they view the seemingly inexorable increases in the prices charged by publishers as unsustainable. For UK libraries, most of the deals with the larger publishers are negotiated through regional consortia or centrally through the Joint Information Systems Committee (JISC), under its National Electronic Site Licensing initiative (NESLi2). Individual libraries then decide whether or not to subscribe to the deal. Although the negotiations are conducted by professionals, some members of our focus groups — especially those from teaching-led universities — are concerned that the deals do not represent good value for them, and are considering the possibility of negotiating individually with publishers on their own account.

But there are also concerns about the confidentiality clauses that seek to prevent universities from sharing with each other information about the costs of the deals they reach. Many library directors consider themselves involved in a war of attrition with publishers, and there are some suggestions of concerted action to tackle the lack of transparency about the terms of big deals. Nevertheless, librarians are aware of the risks if they try to break ranks, not least because the UK is a relatively small part of the global market for publishers. In other parts of the world, especially China and India, publishers are experiencing growth in their markets.

Hence only by acting in concert with others both in the UK and overseas do libraries see much chance of achieving significant savings in their deals with publishers. There is thus in the UK increasing interest in the possibility of site licences covering the whole university sector and especially in the pilot initiative to that end in Scotland (SHEDL). Achieving such deals across the sector as a whole will not be straightforward, especially in a financial climate which is likely to intensify opposition from senior managers in universities towards 'top-slicing' of the funds provided to

individual universities. Thus the diverse positions and financial prospects of different universities may make it more difficult for the sector as a whole to work together towards common goals, and students and staff in smaller or less-well-resourced institutions may find that they have access to a reduced range of journals. Nevertheless, it is important that libraries should work together and with publishers to find ways of reducing the costs of licence deals and the restrictions on access often associated with them.

New Strategies

Academic libraries in all parts of the sector have developed in the past decade new kinds of activities in supporting research, teaching and learning, and senior librarians are very much aware of the need to sustain the momentum of innovation in developing new approaches and new services to support changes in institutional missions and in the workflows of both students and staff. But the scope for doing so may become increasingly constrained by financial cuts and loss of key staff; sustaining momentum will depend increasingly on co-operation across the sector.

Content

Even the most well-resourced libraries cannot hope to acquire and provide access to all the content that their academics and students might want. Any such aim is especially otiose in an environment where users can find content from multifarious sources on the internet. Selective development of their collections thus remains a fundamental part of the role of academic libraries. But there is increasing interest in moving from a 'just-in-case' to a 'just-in-time' approach, and from library-controlled to user-generated acquisitions, particularly in the light of evidence that the latter circulate at least as widely — and often more so — than the former.

The shift in university libraries away from print and towards digital content is driven by powerful forces including the constraints of space and finance, and above all user demands. In the short term, however, most university libraries in the UK are likely to remain hybrid, with both print and digital content. For despite the progress of digitisation and the increasing preponderance of

born-digital content, we are still far from the position where all the content of interest to students and researchers is available digitally, and many of them are reluctant to abandon print altogether.

In a hybrid world, some libraries are interested in exploring how they might build co-operative, distributed models for library collections — both digital and in print — that are shared across a group of libraries, regionally, nationally, or defined by their subject interests. Low-use print material can thus be shared by users across a number of libraries, and locally managed collections replaced by co-operative agreements. For digital material, there is increasing interest in moving towards co-operative collection-development plans and co-operatively managed digital aggregations, or even 'cloud-sourced' collections.

One potential way of reducing the pressure on acquisition budgets and of enhancing access to content, of course, is through the provision of open access, through either the green or the gold route. Librarians in the UK have played a leading role in promoting open access initiatives, through the establishment of institutional repositories and of arrangements for the payment of open access publication fees. In the very long term, it is possible that open access may help in reducing the pressure on library budgets. But over the next 3–5 years at least, open access initiatives will continue to represent additional burdens on libraries, for the costs of running repositories and promoting their use, or of paying publication fees, are not being offset by any significant reductions in subscription costs for scholarly journals.

Services

The shift from print to digital resources provides libraries with the opportunity to focus more on providing services than on managing collections of content. Many libraries are keen to develop in this way, with new services to help users create, manage and manipulate information. Libraries are thus interested in helping to develop more effective arrangements for managing, curating, sharing and preserving data created or gathered by researchers. Similarly, they have also been active in addressing the increasing concerns about lack of understanding and skills among academics as well as students in handling an ever-more complex information environment.

If they are to develop new services or enhance existing ones, however, libraries must tackle three key challenges.

- First, they must reduce if not eliminate what is routine in order to make space for new activities, for it is unlikely that additional resources or funding will be available. Outsourcing of what can be done more efficiently or effectively by others is likely to be part of the answer in areas including cataloguing and the hosting of library websites.
- Second, they must ensure that users are fully engaged in the development and implementation of new services.
- Third, they must develop new models of working co-operatively to exploit the resources and expertise of their colleagues in the sector as a whole. A recent project sponsored by SCONUL to develop a business case for shared services for all UK university libraries is a significant example of work of this kind.

Staffing

Increasingly, librarians are being required to take on a variety of roles and activities. The ICT infrastructure for libraries is becoming ever more complex, and libraries are likely to need more computer scientists and informaticians to work along with subject experts.

There is a growing recognition among senior managers in universities as well as information professionals that both academics and students require better support if they are to handle information resources effectively. But effective support depends increasingly on a mixture of subject specialist and information expertise; and there is no consensus on how moves of this kind might be initiated, nor on how professionals of this kind might be organised and where they might be located within institutional structures.

A minority view among senior managers is that libraries and librarians are key to these kinds of developments: that they already understand and have a broad view of the issues which other players lack, and that some of them are already involved in providing relevant services as well as acting as partners in pilot projects. A more widespread view is that while many librarians have talked about developing their contribution to the research effort in these

ways, there are only weak linkages between the expertise and the services now needed and the traditional skillsets of librarians. Even those who take a more positive view acknowledge that if librarians are to develop their roles in this way, there will be a huge need for training and capacity-building; and that might involve re-envisioning and rebuilding the role of subject specialist librarians.

The Value of Libraries

There is a strong feeling among senior librarians that they have failed effectively to communicate the value of their services to those who fund and use them. They believe that many senior managers in universities, as well as academics and students, have outdated views and expectations about the services that libraries now provide. There is thus an increasing risk that much of what libraries actually do may be invisible in a virtual environment. This may leave libraries especially vulnerable when institutions have to take difficult financial decisions, with cuts targeted at specific departments or areas of activity. Moreover, while the student voice in support of libraries may be particularly powerful, it tends to be focused on a rather narrow set of issues relating to ready access to course texts and the need for extended opening hours.

In current circumstances it is particularly important that libraries should be able to show not only that they are operating efficiently, but that they provide services with demonstrable links to success in achieving institutional goals. Return on investment is thus an increasingly important issue. It is important therefore that libraries are proactive in seeking to understand user behaviour and workflows; and in rigorously analysing and demonstrating the value of their activities in improving students' experience and in supporting teaching, learning and research.

The focus of performance indicators up to now has tended to be on inputs and outputs that are relatively straightforward to measure, rather than addressing the much harder issues relating to impact and value. Nevertheless, it is essential that more is done to analyse the relationships between library activities on the one hand, and learning and research outcomes on the other.

Work of this kind is in its relatively early stages, and it is fraught with difficulties. Gathering and analysing evidence of value is notoriously difficult. A number of different approaches have been adopted, and there is no single answer. A key question is 'value for whom?' In relation to libraries, approaches to gathering evidence of value for students or academics may well differ from approaches to value for funders or for universities. Similarly, approaches to the value of existing services may not be appropriate in gathering evidence of possible changes either to the nature or to the level (positive or negative) of those services. And there are notorious difficulties presented in assessing changes in value over time.

One simple approach is to analyse expenditure and usage, to ascertain the unit cost per usage and its variation between different resources and institutions, or over time. Analysis of the costs per download of e-journals in UK university libraries shows some intriguing patterns. As shown in Table 1, downloads rose by over 160% between 2004 and 2008, and by 250% in the research-intensive universities.

Table 1: UK Higher Education Libraries Annual E-journal Downloads

Average for sector										
Year	2004	2005	2006	2007	2008					
Russell Group	783,870	1,377,603	1,846,121	2,211,245	2,795,825					
Other Pre-1992 universities	439,813	632,144	665,926	819,335	1,001,521					
Post-1992 universities and	283,760	322,251	443,027	521,350	592,253					
other institutions										
Total	432,693	632,758	772,600	930,415	1,134,165					
	Ir	dex 2004=100								
Russell Group	100	175.7	235.5	282.1	356.7					
Other Pre-1992 universities	100	143.7	151.4	186.3	227.7					
Post-1992 universities and other institutions	100	117.1	156.1	183.7	208.7					
Total	100	146.2	178.6	215.0	262.1					

As shown in Table 2, the rise in usage has been accompanied by a fall in cost per use, from £1.19 to £0.70 (thus by 40%) across the sector as a whole, with the biggest fall again among the research-intensive Russell Group universities.

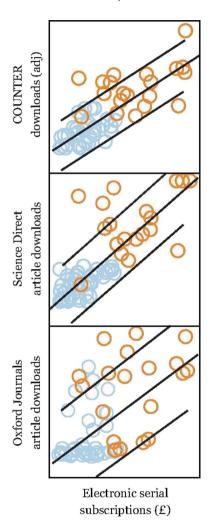
Table 2: UK Higher Education Libraries Direct Cost per Download at Constant Prices

Average for sector									
Year	2004	2005	2006	2007	2008				
Russell Group	£1.73	£0.99	£0.82	£0.74	£0.66				
Other Pre-1992 universities	£1.20	£0.96	£0.98	£0.91	£0.81				
Post-1992 universities and other institutions	£1.01	£0.85	£0.73	£0.68	£0.65				
Total	£1.19	£0.91	£0.83	£0.77	£0.70				
	Ind	ex 2004=100							
Russell Group	100.0	57.2	47.4	42.8	38.2				
Other Pre-1992 universities	100.0	80.0	81.7	75.8	67.5				
Post-1992 universities and other institutions	100.0	84.2	72.3	67.3	64.4				
Total	100.0	76.5	69.7	64.7	58.8				

When levels of usage are put alongside expenditure on e-journals in individual universities, again the results are intriguing. They show a very strong correlation between volumes of downloads and expenditure, with only a few outliers, as shown in Figure 6. This finding seems to indicate that universities as a whole are spending their money wisely. But when we look at specific disciplines and institutions, and analyse levels of usage against institutional size, even within a single discipline, we find that the intensity of use for each potential reader varies by a factor of over four, which raises interesting questions for individual libraries.

Trying to assess the impact of usage is much more difficult. For the linkages between use of information resources provided by libraries and research or learning outcomes are difficult to pin down, and chains of reasoning may raise as many questions as they seek to answer. One approach is to try to calculate the return on investment (ROI) for individual libraries. Recent studies led by Carol Tenopir suggest that the ROI varies from between 15.5:1 to under 1:1 (i.e. a negative return), depending on such factors as the balance between teaching and research, and the subject mix, in each university. The high rates of return are for the libraries of research-intensive universities with a focus on science, technology and medicine, where winning research grants and contracts is a key measure of success for the university as a whole. Low or even negative rates of return are for the libraries of teaching-led universities, or those where the focus is on the arts and humanities.

Fig. 6: UK Higher Education Libraries Expenditure and Usage of E-journals. Matrix scatterplot based on downloads for all downloads (COUNTER (adjusted), Elsevier ScienceDirect, and Oxford Journals (fitted linear regression trendlines with 95% confidence intervals). The yellow circles denote Russell Group institutions.



The Research Information Network has taken a rather different approach, working with the CIBER team at University College London to look at relationships between levels of usage on the one hand and of different kinds of research outcomes for universities in the UK on the other. These analy-

ses⁵ show that there is a strong correlation between numbers of downloads of e-journal articles in individual universities and success in research as measured by the number of PhDs awarded, the value of research grants and contracts received, the numbers of papers published, and field-normalised citation impact.

Correlations do not necessarily imply causal relationships, of course. But by using a partial least squares regression and path modelling technique, we have built a model that seeks to predict levels of each of three variables — expenditure, use, and research outcomes — on the basis of the other two, and to quantify how good they are as predictors of each other. The analysis of 113 UK universities suggests that:

- both expenditure on e-journals and success in research are strong predictors of future use of e-journals (indeed, expenditure is a precondition for use);
- success in research tends to lead to higher levels of expenditure on
 e-journals in the future, but there is no strong link between expenditure and subsequent research success;
- the linkage between levels of use and expenditure is not strong: high
 levels of use do not seem to be a direct driver of high levels of future
 expenditure on e-journals (perhaps because journals are generally
 supplied as bundled deals and not priced according to usage);
- there is a strong feedback loop between levels of usage and research success.

The most powerful linkage by far in this modelling is between levels of usage and research performance: higher usage is a strong predictor of subsequent research success. But the modelling also shows that higher expenditure leads to more usage, and that there are thus good reasons for sustaining current levels of expenditure.

These findings are suggestive rather than conclusive, but it is important that such studies should be continued, so that libraries can sustain the effort to show not only that they are operating efficiently, but that they provide services with demonstrable links to success in achieving institutional goals. Libraries need to be more proactive in seeking to understand user behaviour and workflows; and in rigorously analysing and demonstrating the value of their activities in improving students' experience and in supporting teaching,

learning and research. There is a need to go beyond performance indicators that focus on inputs and outputs which are relatively straightforward to measure, and to address the much harder issues relating to impact and value. That implies detailed investigations of the relationships between library activities on the one hand, and learning and research outcomes on the other.

Conclusion

Academic libraries have demonstrated their ability to lead and to adapt their roles in response to changing circumstances. They play a crucial role in supporting the teaching, learning and research missions of their universities. The quality of libraries and their services is an especially important part of the student experience, and students are increasingly vocal about any perceived shortcomings.

Librarians across the sector in the UK recognise that they must respond to the pressures of a new period of financial stringency; and that they must demonstrate that their services are both efficient and effective in delivering value to the staff and students in their universities. They also recognise that they must find ways of doing things differently; many see budget cuts as an opportunity to re-think what the library does and what it means. But they have as yet few concrete proposals that will transform services or yield large-scale efficiency savings, at least within the bounds of individual universities.

In these circumstances, it is important for libraries to share ideas and experiences, and to test what works and what does not. There is a risk that the increasing diversity of the HE sector may inhibit working together to achieve common goals. But it is crucial for libraries to exploit the potential for cooperation in developing a range of shared services in order to enhance efficiency, as well as the scope and quality of what they provide to both academic staff and students.

Libraries need to do all this not least in order to sustain a momentum in the development of new services that meet the changing needs of users and the missions and strategies of their host universities. Co-operation and partnership — with other libraries; with other information service providers; and with the staff, students and senior managers of their host universities — will be watchwords for libraries as they develop their strategies for the

future. Working closely together with, and influencing, partners across the university sector will be essential if libraries are to exploit the current financial difficulties as an opportunity for change.

Notes

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¹ All figures relating to budgets and expenditure in UK libraries are calculated from SCONUL statistics. See http://vamp.diglib.shrivenham.cranfield.ac.uk/statistics/sconul-annual-library-statistics.

² ARL statistics suggest that growth was lower in the US, where the budgets of the university library members of ARL grew by 12% in real terms between 2001 and 2007. See http://www.arl.org/stats/annualsurveys/arlstats/statxls.shtml.

³ The economic downturn and libraries: survey findings, CIBER, University College London, 2009, available at http://www.ucl.ac.uk/infostudies/research/ciber/charleston-survey.pdf. David Nicholas, et al., 'The impact of the economic downturn on libraries: with special reference to university Libraries', The Journal of Academic Librarianship (2010), doi:10.1016/j.acalib.2010.06.001.

⁴ *National e-Books Observatory Project, Final Report,* 2009, available at http://www.jiscebooksproject.org/reports/finalreport.

⁵ E-journals: their use value and impact, RIN 2009, available at http://www.rin.ac.uk/system/files/attachments/E-journals-report.pdf.