
UKOLN

Report for the period
1 August 1996 to 31 July 1997

Presented to the British Library Research
and Innovation Centre and to the
Committee on Electronic Information
of the JISC

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Lorcan Dempsey and Sally Criddle



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... a centre of excellence at international levels in the areas of networking and associated
new technology and standards development.

BL/JISC review panel, August 1997

Preface

I would like to preface this report with a note of thanks to those who have contributed to UKOLN's work over the last year.

UKOLN is lucky in having a dedicated, interested and hard-working staff. What success we have is thanks to their commitment.

Our Management and Advisory Committees provide valuable guidance, support and advice and we are grateful to the many busy people who are willing to serve on these committees. In particular, I would like to acknowledge the encouragement and support of Professor Mel Collier, Chair of our Management Committee, and Sheila Corral, Chair of our Advisory Committee. Mel is stepping down as Chair of the Management Committee as he moves to a new career with Dawsons and we wish him well. We are also grateful for the assistance during the year of Dr. Richard Heseltine as we worked on organisational development issues and we are pleased to welcome Richard as the new Chair of the Management Committee.

We benefit from the continued interest of our funding bodies, and the supportive assistance of our primary contacts within them. Many thanks to Dave Cook, Alice Colban, and Martin Metcalfe at the JISC Secretariat and to Graham Jefcoate at the British Library Research and Innovation Centre. In particular, we acknowledge the constructive attention of the Panel who carried out the BL/JISC review of UKOLN earlier this year.

We are grateful to the University of Bath and its officers for providing us with a home and a range of support services. I would like to thank Professor Lunt, Deputy Vice Chancellor, and Professor James Davenport, University Director of IT, for local advice and assistance. We are housed in the 24 hour Library and Learning Centre at the University of Bath, and are grateful to the University Librarian, Howard Nicholson, for his active involvement in our work, and to the library staff for their forbearance!

Lorcan Dempsey
Director, UKOLN

August 1997

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Introduction

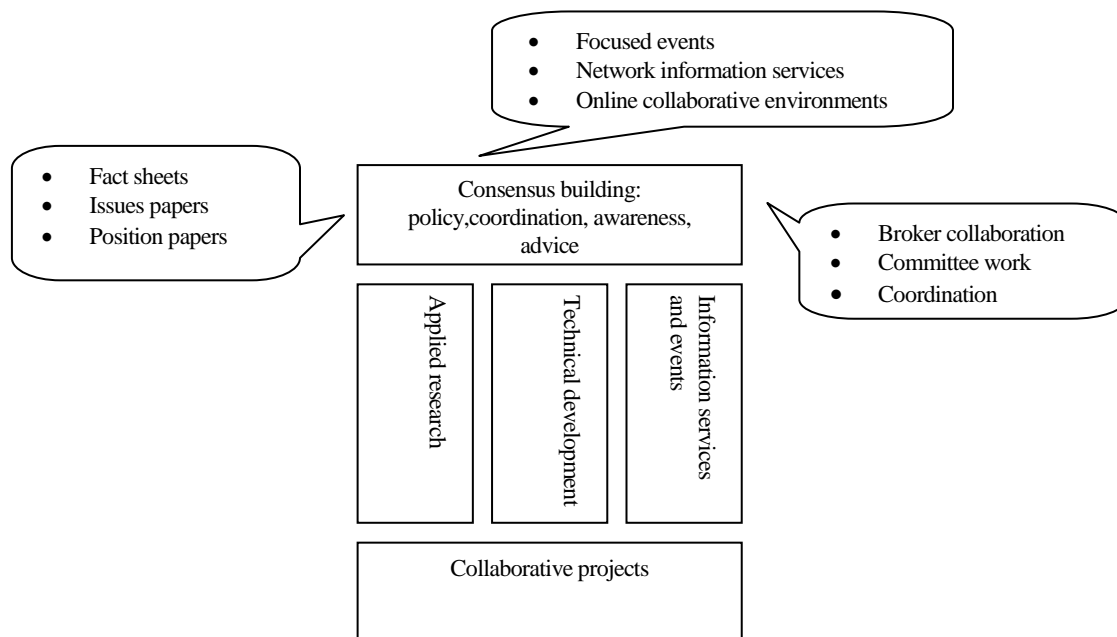
This has been another active year which was capped by a Review of UKOLN by the British Library Research and Innovation Centre and the JISC's Committee for Electronic Information. This review was initiated at the request of the Director who felt that an external review by the funding bodies would be useful to gauge progress and inform future thinking.

There has been significant change in the period since UKOLN was last reviewed in 1994. We have more than doubled in size and income, moved to new accommodation within the refurbished Library and Learning Centre, and have a largely different staff (only three of the present UKOLN staff, including the current Director, were with UKOLN at the time of the 1994 review). In the interim period, UKOLN has:

- reprofiled and extended its work areas, becoming a multidisciplinary group well placed to enhance its position as a centre of expertise and influence across the spectrum of network information management issues;
- diversified its funding base, drawing on a mix of BL, JISC, European and other funding;
- moved to play a central national and international role in all areas of its work;
- forged national and international collaborative partnerships which lever UKOLN effort;
- advised BLRIC, CEI, the Library and Information Commission, the EU Libraries Unit, and others, on a range of issues;
- improved internal administrative procedures
- moved incrementally towards a group-based structure and carried out a major restructuring exercise to adapt to current expansion.

We welcomed this opportunity to review our progress and performance with our sponsors and were gratified by the positive and constructive outcomes of the Review.

During the coming year we look forward to developing our work within our new organisational framework. We will build our research and awareness work, in the complementary areas of distributed library systems, metadata, public library networking, and network information management. We will develop toolkit and demonstrator support through our expanded technical work. We will continue our highly regarded network information services and events management work.



We will step up our dissemination and policy activities as we work with the UK library and information communities to shape new civic and learning services in a network society.

Supporting the creation of
digital information landscapes

Mission

UKOLN is a national centre for support in network information management in the library and information communities. It provides awareness, research and information services and has the following goals:

- ☐ to promote awareness of emergent issues at technical, service and policy levels,
- ☐ to provide a focal point for research, development and performance measurement,
- ☐ to influence policy makers and service providers in the interests of the communities it serves,
- ☐ to demonstrate high-quality information services.

A brief history of UKOLN

UKOLN and its antecedent organisations have had a continuous home at the University of Bath for 20 years. It currently has a staff of 16.

Recent years have seen the emergence of a multi-disciplinary research and development unit with well-developed information and promotional services and a focus in the area of networked information management. It receives funding from the Committee on Electronic Information (a sub committee of the JISC), the British Library Research and Innovation Centre, the European Union, and is supported by the University of Bath.

Some salient aspects of its development in that period are noted here.

1977

Centre for Catalogue Research established.

The establishment of this office, funded by the British Library R&D Department, was preceded by several projects looking at catalogues and bibliographic data, including the Bath University Programme of Catalogue Research (1977-79). This work was initiated by Maurice Line, sometime University Librarian at Bath, and Philip Bryant, technical services librarian. Philip Bryant became Director of the CCR. People who worked with the Centre in this period included Alan Seal, Janet Kinsella, Gill Venner, Steve Prowse, Jo Lye and Carolyn Hall.

1987

Centre for Bibliographic Management established. The change of name recognised the wider role the Centre was playing in the UK library world. Lorcan Dempsey and Ann Chapman became research officers at CBM during this period, and Thay Gordon joined as secretary. Ali Cook began doing support work, before becoming Financial Administrator.

1989

UK Office for Library Networking established after a grant is made by the British Library Research and Development Department (BLRDD). UKOLN was set up to work alongside CBM. John Smith became the National Project Officer for UKOLN and its only full-time member of staff.

1992

CBM and UKOLN merge to form *UKOLN: The Office for Library and Information Networking*. UKOLN is jointly funded by the ISC (now the JISC) and BLR&DD

1994

Philip Bryant retires as director of UKOLN

Lorcan Dempsey appointed as director of UKOLN (November 1994).

1995

Restoration of UKOLN as an acronym: it is now called *UKOLN: The UK Office for Library and Information Networking*. UKOLN recruit several new research and information staff, including Rosemary Russell, Rachel Heery, Sarah Ormes, and John Kirriemuir. Hazel Gott joins as Promotions Officer to manage a growing range of workshops and events. Ruth Burt joins as Office Administrator.

UKOLN begins work on the eLib ROADS project and begins planning for the *Ariadne* magazine.

1996

As the library is refurbished, UKOLN moves into new offices on Level 4. Several more new staff are recruited, including Andy Powell, Glen Monks, Michael Day, Isobel Stark and Penny Rogers.

UKOLN begins work on DESIRE and BIBLINK, EU funded projects. UKOLN also begins work on Newsagent, a FIGIT funded project.

Brian Kelly joins UKOLN as UK Web Focus.

1997

UKOLN is reviewed by its funding bodies and is congratulated on “becoming recognised as a centre for excellence at international levels in the areas of networking and associated new technology and standards development.”

UKOLN consolidates its group structure around several groups with coordinators.

Preparatory work begins on EU projects PRIDE and Exploit; BLRIC funded projects Webwatch, CIRCE and Stories from the Web; and on JISC funded AGORA.

Structure and organisation

In early 1997, it was decided to consolidate an emerging 'group' structure within a broader reorganisation exercise. The objective was to develop structures which supported effective working and which allowed UKOLN remain responsive to opportunity in a changing environment.

Staff structure

A model based on 'groups' was formally introduced at the beginning of August 1997. These groups are essentially based on work areas (e.g. Information services). Each member of staff belongs to one group, although staff may also contribute to the work of other groups. 'Groups' are complemented by 'working parties' which are formed to meet particular horizontal issues (e.g. social and environment).

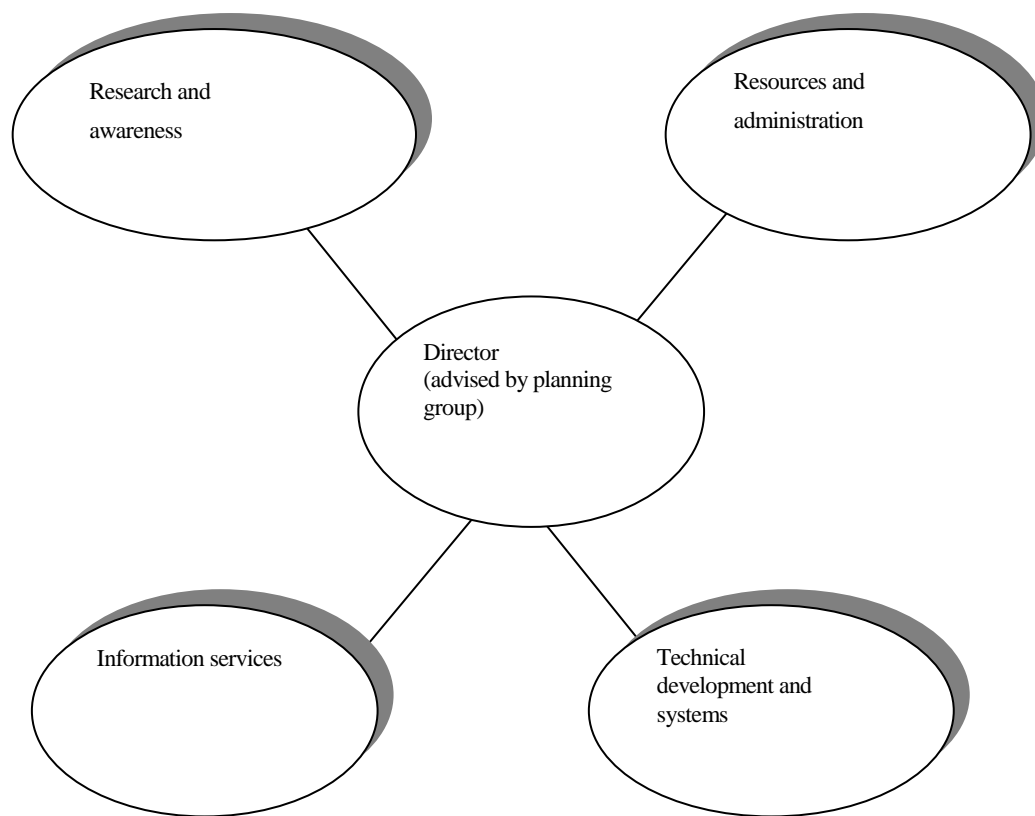
Groups

A Group is a fixed group of staff with similar objectives. All group members have a responsibility to contribute to achieving objectives and tasks within the context of their group. Emphasis is put on individual responsibility and by extension the responsibility of the group. Groups provide a focus for organisation. They do not exclude other patterns of work. Group interests overlap and it may be appropriate to form working parties to address particular interests. The Planning group will monitor these. Not all aspects of the role of the group will be equally applicable to all UKOLN groups.

Group objectives and tasks are: strategic planning, project planning, project management, project or task implementation and reporting, developing work practices, project review. Group coordinators are responsible for ensuring that those activities are carried out in their groups using the most appropriate means. In addition they are responsible for personnel issues.

Planning group and working parties

The Planning group provides a focus for coordinators to discuss resourcing and other issues that cannot be resolved within groups. It also provides a focus for organising forward planning, involving other colleagues as appropriate. The Planning Group receives the recommendations of Working Parties and advises the Director. Guidelines for the creation and operation of working parties have been established. These include procedures for monitoring and review.



Initial groups

The following Groups were set up during the period to July 1997. This structure will be monitored during 1997/98.

Research

Ann Chapman, Michael Day, Rachel Heery (Co-ordinator), Sarah Ormes, Penny Rogers, Rosemary Russell

Information

Hazel Gott, Brian Kelly (Co-ordinator), John Kirriemuir, Isobel Stark.

Systems and technical development

Andy Powell (Co-ordinator), Glen Monks.

Resources and administration

Ruth Burt, Ali Cook. Sally Criddle (Co-ordinator).

Aims

A series of aims for UKOLN have been derived from the Mission Statement: specific aims are the responsibilities of particular groups and the Director.

- ☐ Aim: influencing policy and practice in the management and use of electronic information
- ☐ Aim: being responsive to the evolving needs of the information community
- ☐ Aim: undertaking research and contributing to the wider research community

- Aim: developing and demonstrating applications in support of viable distributed library and information systems
- Aim: disseminating knowledge of research outcomes, technologies and policies
- Aim: promoting good practice in the use of current technologies
- Aim: brokering collaborative initiatives and facilitating the exchange of ideas
- Aim: developing an awareness of the work of UKOLN
- Aim: using technology effectively, consistently and appropriately to support the core activities of UKOLN
- Aim: promoting good administrative and financial practices in all activities of UKOLN
- Aim: providing a supportive environment in which the staff of UKOLN can realise their full potential

Staff changes and activities

Brain Kelly joined the staff of UKOLN in November as UK Web Focus, and Sally Criddle was recruited as Resource Co-ordinator in May. Since April Birgit Kongialis has been assisting with conference preparation on a part time basis.

During the year Ann Chapman was awarded an MA degree in Library and Information Science from the University of Central England, Birmingham. Ann researched bibliographic standards for non-book materials. Sally Criddle gained an MSc in Information and Library Management from the University of Bristol.

Sarah Ormes and Isobel Stark taught on the information and its users unit of the MSc in Information and Library Management organised by the Universities of Bristol, Bath and the West of England.

Sarah, Isobel and Sally have also been working towards Library Association Chartership, in conjunction with University Library staff.

Glen Monks and John Kirriemuir will be leaving UKOLN just after the reporting period, however each will retain close links. Glen returns to the University of Bath to complete his degree and will continue to provide occasional support. John has moved to the Institute for Learning and Research Technologies in Bristol with whom we work closely on several projects.

UKOLN committees

UKOLN has two Committees which assist it in its work. The Management Committee comprises nominees and representatives of BLRIC and JISC. Professor Mel Collier has just stepped down as Chair as he moves into the private sector to take up a post with Dawson Holdings plc. We are very grateful for the support that Professor Collier has provided over the last few years. We are pleased to welcome Dr Richard Heseltine, Director of Academic Services, University of Hull as the new Chair. The membership of the Management Committee is shown in the following table:

Professor Mel Collier (Chair to 12 June 1997), Head of Division of Learning Development, De Montfort University
Mr Dave Cook, JISC Secretariat
Ms Sheila Corral, Librarian, Reading University
Mr John Dolan, Head of Central Library, Birmingham
Dr Richard Heseltine (Chair as of 12 June 1997), Director of Academic Services and Librarian, University of Hull
Mr Graham Jefcoate, Research Analyst, British Library Research and Innovation Centre

Professor George Lunt, Deputy Vice Chancellor, University of Bath

Mr Howard Nicholson, Librarian, University of Bath

We benefit from a wide breadth of experience in our Advisory Committee. During the coming year we will explore mechanisms for exploiting specific inputs in other ways, perhaps through focus groups. It is chaired by Sheila Corrall, Librarian, Reading University.

Mr John Akeroyd, Head of Library Services and Learning Resources, South Bank University

Mr Lou Burnard, Head of Text Archives, Oxford University Computing Services

Mr Paul Capewell, Director, Learning Resources Dept, Liverpool Hope University College

Mr Neal Clements, Director, BLCMP Library Services Limited

Ms Sheila Corrall (Chair), Librarian, University of Reading

Professor Joan Day, Head of Department, Department of Information and Library Management, University of Northumbria at Newcastle

Mr Nicky Ferguson, ESRC Visiting Fellow In Networked Information. Institute for Learning and Research Technologies, University of Bristol

Mr Brian Green, Managing Agent, Book Industry Communications

Ms Sheila Harden, Area Librarian, London Borough of Richmond upon Thames

Ms Frances Hendrix, Director, LASER

Mr David Hill, Managing Director, Sage Publications Limited

Mr Trevor Hing, IT Director, B H Blackwell Ltd

Mr Mike Holderness, Freelance journalist

Mr David Kay, Technical Services Director, Fretwell Downing Data Systems Limited

Dr Ray Lester, Head of Library & Information Services, The Natural History Museum

Professor Denise Lievesley, Director, The Data Archive, University of Essex

Dr Cliff McKnight, Dept of Information & Library Studies, Loughborough University

Mr Howard Nicholson, Librarian, University of Bath

Ms Judith Palmer, Director, Healthcare Libraries Unit, Oxford Radcliffe Hospital

Dr Seamus Ross, Director, Humanities Computing & Information Management. University of Glasgow

Professor Bruce Royan, Chief Executive, SCRAN (Scottish Cultural Resources Access Network)

Mr Chris Rusbridge, Programme Director, Electronic Libraries Programme, University of Warwick

Mr Barry Smethurst, Director, BIDS, University of Bath

Mr Neil Smith, Deputy Director, Digital Library Programme, British Library

Mr Peter Stone, Consultant

Mr Ray Templeton, Head of Library Services, British Film Institute

Ms Linda Tomos, Director, Wales Information Network, Department of Information & Library Studies, University of Wales Aberystwyth

... a centre of excellence at international levels in the areas of networking and associated new technology and standards development.

BL/JISC review panel

Research, information services and events

We present current work under three broad heads: applied research and technical development network information services and events. We have moved to becoming an international centre of excellence in each of these areas. Significant impacts in this period include:

- ☐ participation in and contributions to the Information for All and LIC Public Library Networking Plan Working Group (due to report to the DNH in July 97);
- ☐ publication of the first book-length discussion of public library networking issues in the UK;
- ☐ shaping the development of a view of distributed library systems through the MODELS project, leading to the CEI 'clumps' initiative and influencing the design of the *National bibliographic resource* initiative;
- ☐ leading discussion of emerging metadata issues and supplying background information and research, as well as tool and systems support for metadata management;
- ☐ extending bibliographic management work to include new sources and new methods of evaluation;
- ☐ providing technical leadership, advice and support through the UK Web Focus in the area of emerging web technologies;
- ☐ becoming a premier world site for web-based resources about network information management and digital libraries (*Ariadne* and other information services);
- ☐ organising a highly-regarded series of prestige conferences, workshops, seminars and other events;
- ☐ providing advice, referral, and other services across sectors and technical domains.

Applied research and technical development

Metadata and resource discovery

Work in this area is supported through EU and eLib projects. We have benefited from this project work to successfully guide wider discussions of metadata issues, achieving a high national and international profile.

ROADS

The ROADS (Resource Organisation and Discovery in Subject-based services) project, funded as part of the eLib programme, is now moving into its second year. The first version of the software to support the eLib subject services has been released, incorporating many of the user requirements as well as integrating a WHOIS++ server which enables interoperability between the various services. UKOLN has played a significant role in the requirements gathering process, particularly in relation to improvements in the format of resource descriptions. We have established a registry of ROADS templates and have started work on establishing shared cataloguing guidelines for use with simple Internet resource descriptions. We have produced several 'cross-walks', mapping between ROADS templates and other metadata schemes including Dublin Core and various MARC formats. UKOLN has also used the ROADS software to build a database of eLib projects and is beginning to build a similar database of public library projects. (ROADS successfully bid for continuation funding and lasts until the end of the current eLib programme. It is led by University of Bristol.)

DESIRE

DESIRE is funded as part of the Telematics for Research sector within the European Union Fourth Framework Programme. It is exploring a range of technologies; UKOLN is in the Cataloguing and Indexing sub-group. UKOLN's role is to investigate and make recommendations regarding resource description, with a view to the impact of emerging network standards. UKOLN led the work for the *Specification for Resource Description* deliverable which included a review of metadata formats and reports on the use of classification schemes by Internet search services and quality selection criteria for information gateways. We plan to update the Web version of the review of metadata formats on a regular basis. (DESIRE runs until the end of 1997; a bid for DESIRE II is currently being evaluated. It is led by SurfNet from the Netherlands and involves over 20 other partners.)

BIBLINK

BIBLINK is funded within the Fourth Framework Telematics for Libraries Programme. BIBLINK aims to establish a flow of information about electronic publications from publishers to national libraries. The project has produced a number of reports dealing with relevant issues and we have had particular involvement with those regarding choice of metadata format and a state of the art review of identification schemes for electronic resources. UKOLN are also hosting and maintaining the project Web pages and, as part of the consensus building phase of the project, are involved in discussions with several publishers. (BIBLINK phase I lasts until later this year, when a decision whether to move into implementation will be taken. It is led by the British Library and involves several of the National Libraries of Europe and some other partners.)

AHDS Workshops

AHDS (Arts and Humanities Data Service) and UKOLN collaborated in an initiative to hold a series of workshops during early 1997. Each workshop covered a particular domain area and examined issues of resource discovery and interoperability from the viewpoint of participants in the various disciplines. This series was funded by ISSC and is producing interesting results which are currently being consolidated into monograph form, to be published in Autumn 1997.

NewsAgent for Libraries

NewsAgent is an eLib project which aims to provide current awareness service for library and information staff. UKOLN have played an active role in the design of the NewsAgent system, particularly with respect to the metadata requirements. We have also been involved in the NewsAgent editorial group, selecting content for inclusion in the service. As part of our work on the project, we are associating Dublin Core metadata with the Ariadne Web-based magazine and will be responsible for running one of the NewsAgent servers. (NewsAgent for libraries lasts until the end of the current eLib programme. It is led by South Bank University.)

Staff

Rachel Heery, Andy Powell and Michael Day work across the metadata projects. Metadata project work is coordinated by Rachel Heery. Isobel Stark participates in the editorial work of NewsAgent.

Technical Development

Technical development forms a horizontal activity across metadata and resource discovery projects, demonstrating and developing tools and techniques either as an integral part of projects or as closely related activities. These developments take a toolkit approach, often providing solutions across a range of the activities in which UKOLN is involved.

ROADS Harvester

Developed as part of the DESIRE project, the ROADS Harvester is a Web robot that automatically generates descriptions of Web resources using ROADS records. A database of eLib project Web pages has been built as a demonstrator and a database of public library project Web pages is planned.

DC-dot

DC-dot is a Web-based tool for creating Dublin Core 'meta' tags suitable for embedding into HTML Web pages. It allows automatically generated metadata to be manually updated and expanded and can convert the generated Dublin Core into several other formats, including USMARC, GILS, ROADS/WHOIS++ and SOIF records. DC-dot is still under development but is already in use elsewhere. Strong interest in taking the software has been shown by several other projects in the UK and elsewhere.

Z39.50 demonstrators

Expanding on some work done initially as part of the ROADS project, UKOLN have begun to experiment with Z39.50 based services in particular looking at making ROADS databases available using Z39.50. This has been done in two ways; firstly by using a Z39.50 to WHOIS++ gateway and secondly by converting the records in ROADS databases into GILS records. (GILS – Government Information Locator System – a Z39.50 based approach to resource discovery promoted by US Federal Agencies.)

UKOLN metadata system

As part of the NewsAgent project we have been designing and implementing a system to manage Dublin Core metadata for Ariadne (and ultimately the whole UKOLN Web-site). The system uses manually created SOIF records to describe our Web pages. We anticipate that this will provide a model and some tools for other web managers.

Nordic Web Index robot

The Nordic Web Index (NWI) software, a Web robot developed by a partner in the DESIRE project, has been installed at UKOLN. The intention is to experiment with building an index of UK academic Web sites.

Visualisation of search results

As part of the ROADS project we have developed tools for converting ROADS databases into Meta Content Framework (MCF) files. These can be used to provide 3-dimensional representations of ROADS databases.

Staff

This work is carried out by Andy Powell with some contribution from the Information Services Group. We aim to increase our capability in this area in the coming year.

Distributed library systems

MODELS: MOving to Distributed Environments for Library Services

MODELS is a UKOLN project, which is supported by the Electronic Libraries Programme and the British Library Research and Innovation Centre. It is developing a framework to effectively manage distributed library services. The project is achieving this through discussion of both strategic and practical issues at the MODELS workshops, and drawing up technical service models based on the issues identified. MODELS has achieved some important results for the management of existing and emerging distributed services, through its recommendations and followup work.

Phase 1 of the project is nearing completion, with the final workshop held in April 1997. UKOLN is pleased to report that eLib funding has been awarded to support a further phase of three workshops during 1997/98. This award recognises the significant achievements of the project over the last 18 months.

The two final workshops (from a total of five) in MODELS phase 1 have been held during the timeframe for the UKOLN review. However followup activities from all five workshops have continued throughout. This short text highlights some of the outcomes from this period, describes work being undertaken and, and refers to the influence of MODELS on other developments.

Direct outcomes

One of the most significant direct outcomes from MODELS has been the concept of clumps - groups of distributed catalogues which can be searched together to facilitate resource discovery. This led to the inclusion of a call for pilot virtual clumps in eLib 3, with successful projects due to begin in autumn 1997. A MODELS Z39.50 profile has been developed, to ensure interoperability between services. As a result of MODELS 4, proposals for cross-domain clumps were encouraged. Also related to clumps was the proposal for a National Agency for Resource Discovery; a scoping study funded by BL and JISC was completed in April 1997 and is currently being considered by its funders.

The first project line dealt with the search, locate and request cycle for journal articles, and the problems inherent in current services. These are mainly due to the 'unconnectedness' of systems and inconsistent metadata. One of the workshop recommendations was therefore for UKOLN to commission a series of eLib supporting studies to examine various identified standards for serials and to recommend use. Draft results from the studies were presented at a meeting of invited stakeholders, held in June 1997. The study reports are being made available

on the UKOLN server. A workshop on unique document identifiers, organised in conjunction with BIC, was held in March 1997. Identifiers are particularly important in a distributed environment, for reliable transfer of metadata between relevant services. The workshop focused on the SICI (Serial Item and Contribution Identifier) and the emerging DOI (Digital Object Identifier).

UKOLN is also commissioning two studies relating to collection description, resulting from discussions at the third and fourth workshops. There is currently very little metadata available at a collection level; this is a severe impediment to effective distributed searching, when there is no facility for referring users to relevant resources. The first study is a review of the options for describing collections in the library and archives domains. The second is an evaluation of the Z39.50 digital collection profile suite, with an emphasis on opportunities for cross-domain searching. The fourth workshop established 'cross-domain' retrieval as part of the resource discovery agenda.

Work on Dublin Core and the Warwick Framework (the latter was introduced at the MODELS metadata workshop in Warwick) is being taken forward by further international metadata meetings. The UKOLN metadata group is continuing to participate.

Outcomes from the final workshop on public library resource sharing are currently being progressed. These include the development of an ISO ILL profile.

Influence of MODELS

There is evidence that MODELS results are directly influencing the development of other projects and services. For example the National Bibliographic Resource initiative (led by the British Library and CURL), has acknowledged the influence of MODELS on its design. Similarly, projects such as EDDIS (distributed document delivery) and CASA (Z39.50 access to serials databases) have incorporated findings from MODELS. The invitation to tender for an Z39.50 demonstrator project for archives, issued by the Archives Sub-Committee of the Humanities Non-Formula Funding (NFF) Committee, was another direct result of participation in MODELS debates on cross-catalogue and cross-domain searching.

It is also possible to point to more intangible benefits. Anecdotal evidence suggests that MODELS workshops have had an impact on the way people are thinking about future services, and that they have raised the aspirational level of some services and players. We look forward to further important results from phase two of the project.

Staff

The MODELS project manager is Rosemary Russell. Robin Murray of Fretwell Downing Informatics is retained as technical consultant. Lorcan Dempsey also works on the project.

Bibliographic Management

BNBMARC Currency Survey

This survey, measuring the currency (availability at the time required) of BNB records for post 1974 published titles with UK imprints currently being acquired by UK libraries, has been carried out continuously since January 1980 at the cataloguing stage and since January 1988 at the ordering stage. Results of the survey are on UKOLN's web pages and in the British Library newsletter *Select*. A paper based on an analysis of the 1994 data is to be published in 1997. During the year an Access database was designed to hold the data from the survey and this became operational in January 1997. Data collected prior to this point has also been transferred to the Access database. Additional reports are now sent to the British Library on their performance in the survey.

CLSCP Quality Audit

UKOLN is continuing to monitor the accuracy and consistency of the records contributed through the Copyright Libraries Shared Cataloguing Programme (CLSCP) during the period 1.8.96 to 31.7.97. The results are reported regularly to the British Library and the CLSCP Steering Committee.

Multisource Currency Survey

This survey uses the sample already being collected for the BNB MARC currency survey and began with the sample for September 1996. Sources of bibliographic records participating in the survey are Book Data, J. Whitaker & Sons, Bibliographic Data Services, BLCMP, OCLC, SLS, CURL and the Viscount database from LASER. Unity joined the survey in February 1997 with previous samples searched retrospectively. In return for participation in the survey, sources are provided with a number of reports on their performance. Twelve months data is required to produce statistically valid data and it is hoped to produce a report on the project in autumn 1997. A paper on this survey was published in mid 1997. A recent meeting of seven of the participants gave unanimous support to extending the survey for a further year.

Whitakers / Askews Study

A comparative review of their respective bibliographic creation services was undertaken for Whitakers and Askews between September 1996 and January 1997; a report was submitted in January 1997.

Essex County Library Catalogue Quality Study

Essex County Library has approached UKOLN about methods of evaluating the quality of library catalogues. The probable outcome is a joint study (June to December 1997) to produce a methodology with UKOLN responsible for design and Essex being the pilot site.

Other Work

UKOLN took part in the pre-release evaluation of the new British Library Web OPAC in April 1997. During the year, the bibliographic management pages on the UKOLN web site have been revised and now also include papers by UKOLN staff on the subject. Ann Chapman provided a small element of support to Philip Bryant's second retrospective conversion study.

Coordination and awareness

Ann Chapman continues to contribute to discussions about MARC and other standards issues through the BIC Bibliographic Standards Technical Sub-group and has recently been invited to join the LASER ILL Non-Book Material Working Party.

Staff

Ann Chapman organises the bibliographic management work. We have expanded this work in the period since the last review and have taken on Penny Rogers to provide support on a part-time basis for survey work. Technical support is provided by Glen Monks.

Public library networking

The highlight of the year was the publication of *The Internet, networking and the public library*. This was edited by Sarah Ormes and Lorcan Dempsey, and contains significant contributions from Sarah Ormes as well as a range of other contributions. It is the first general treatment of networking and public libraries in the UK and has been very well received by reviewers. A central component is a directory of public library networking projects.

The year has also been significant in the range of advisory and policy work that has been carried out, in particular in relation to the failed Millennium Bid managed by the Information for All company and the Library and Information Commission Public Library Networking Plan Working Group which reported to the DNH in July. Lorcan Dempsey has been a member of both groups and Sarah Ormes has contributed background research work, some of which may be published in adapted form. UKOLN provided a website for Information for All. We continue to support Project EARL.

Other work carried out includes:

- A regular column on public library networking issues by Sarah Ormes in *Ariadne*.
- Sarah Ormes worked with Stephen Hill, on work placement from school, to create the Treasure Island web site which has generated significant international interest. The rationale was to have a prototype to show children's librarians what was possible. The aim was to use an online work of literature to explore children's reading, writing and communications skills in a networked environment. This work has led to the *Stories from the web* project which is described later.
- An article on public library networking in Denmark is in final draft form and will shortly be submitted to a publisher. This is the result of a study trip to Denmark, widely recognised as an innovator in this area.
- Work is ongoing on a study of patterns of local network service provision for public libraries.
- Preparatory work for projects Circe and Stories from the Web, collaborative initiatives funded by the British Library Research and Innovation Centre has led to the setting up of these two projects with starting dates later in 1997. Circe will explore distributed systems frameworks for community information. Partners include Project Earl, Croydon and Gloucestershire public libraries. Stories from the Web will extend the ideas developed in Treasure Island and explore the creation of an online environment in which children explore reading, writing and communication skills in relation to literary works. UKOLN's involvement in People Flows continues. We see these initiatives as important ways of working with partners in the public library field.
- We are pleased to be joined by Liangzhi Yu on a temporary basis. Liangzhi is working on an overview of aspects of networked community, local history, and business information and the implications of services in these areas for public libraries. Results will be published in Autumn 1997.

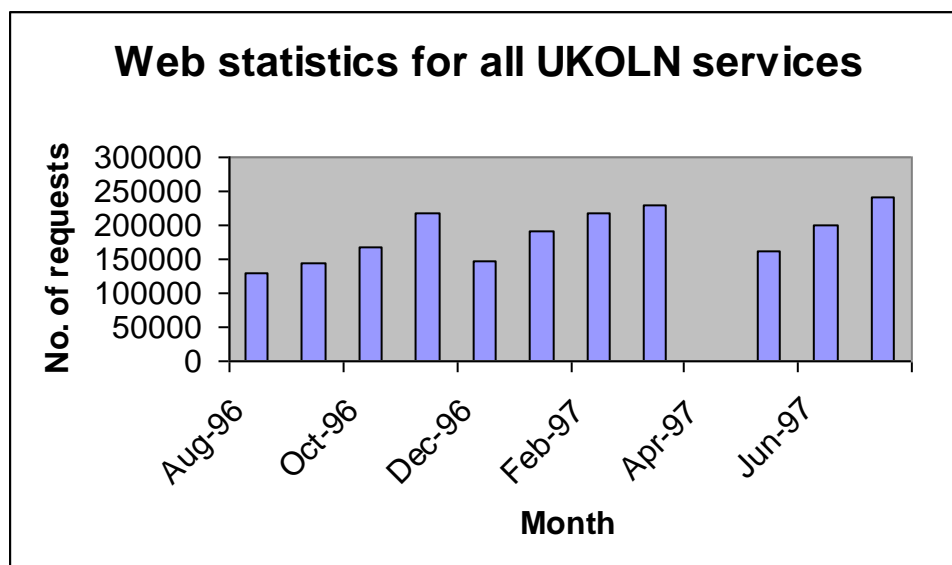
Information Services

Responsibilities of the Information Services Group include managing UKOLN's web service and coordinating various information dissemination activities. UKOLN information services are now heavily used.

Networked Services

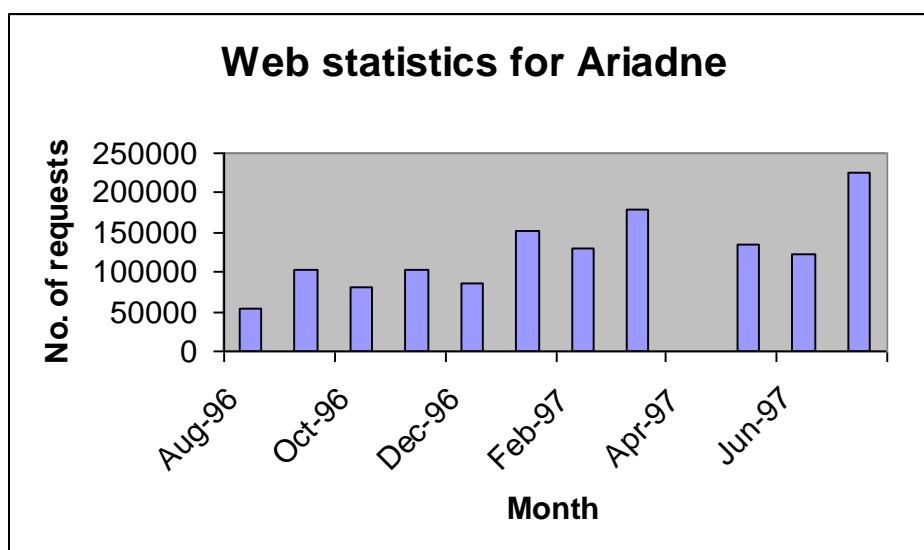
Ariadne

Ariadne is a bi-monthly magazine for library and information specialists, which appears in both print and electronic formats. It is an eLib-funded project, which is jointly run by the University of Abertay, Dundee and UKOLN. UKOLN contributes eLib editorial materials and occasional interviews and articles. UKOLN manages the web version, which contains material published in the print version together with significant additional material, including articles, conference reports and several regular columns.



Electronic Libraries Programme pages

UKOLN provides an information service for the Electronic Libraries Programme (eLib). The web service includes projects descriptions, links to projects' own pages and other relevant



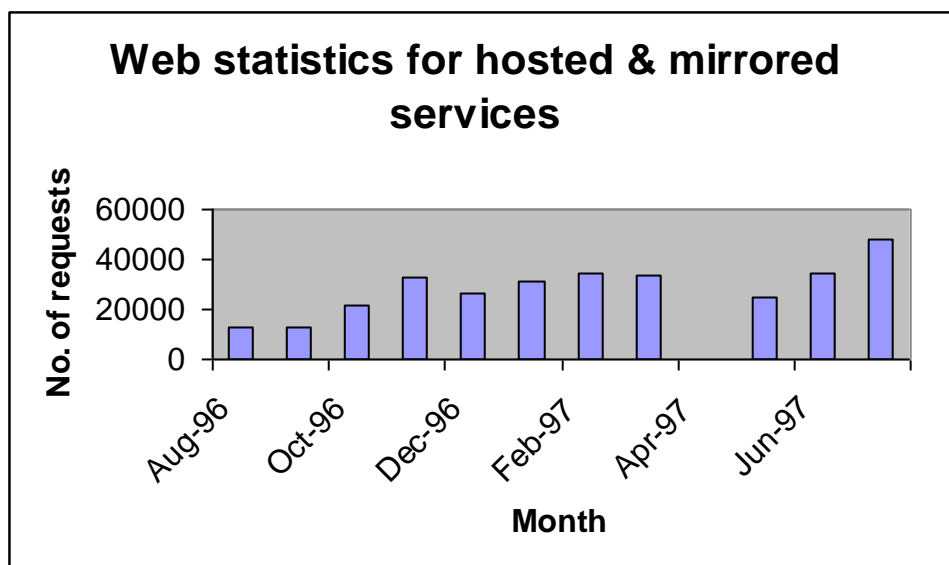
services, reports and papers and other material. The Information officer is owner of the lis-elib Mailbase list. He is pro-active in publicising eLib activities, using the Mailbase list, Ariadne and by giving presentations at conferences and seminars. The eLib web pages are searchable using the ROADS software.

Reports and papers

UKOLN has mounted BL reports for some time. We have recently held discussions with BLRIC on defining Service Level Agreements for this service. We also mount reports on behalf of eLib and UKOLN-generated materials.

Mirroring

UKOLN mirrors a number of key library and Information resources, including D-Lib Magazine (The Magazine of Digital Library Research), Katharine Sharp Review, LIBRES (Library and Information Science Research Electronic Journal) and MC Journal (The Journal of Academic Media Librarianship) together with the Yale C/AIM WWW Style Manual. We have recently introduced automated procedures for performing the function. John Kirriemuir coauthored a paper with Jon Knight (Loughborough University) on "*Mirroring and Caching Network Based Resources*" which was presented at the fourth Elvira conference held at De Montfort University



on 6-8th May 1997.

UKOLN Hosted Services

UKOLN hosts the web pages and a mailing list for LISSPS (an organisation for Library and Information Studies Students and Prospective Students). UKOLN hosts the web pages for a unit of the University of Bristol postgraduate course MSc on Library and Information Management. UKOLN designed and hosts pages for the Information For All – the company set up by the LA and LIC to produce a bid for Millenium funding.

A significant event in this period was the move to Strathclyde of the BUBL Information Service in early 1997 after several years of being hosted at UKOLN.

UK Web Focus Activities

Brian Kelly began work as the ISSC-funded UK Web Focus on 1st November 1996. UK Web Focus is a high profile post, which will help address some of the issues the rapid development of the web poses for the UK higher education community.

Brian has been monitoring web developments through subscriptions to mailing lists, attendance of World Wide Web Consortium (W3C) meetings and the 6th International World Wide Web conference and by monitoring relevant web pages. He has also been active in disseminating information on web developments, using mailing lists, electronic conferencing and presentations at conferences and seminars. A range of informational materials will appear during 1997.

Brian is also a member of the UCISA-SG WebTools working group which is evaluating a variety of web-related software.

In addition to monitoring web developments, information dissemination and coordination activities, UK Web Focus acts as the JISC representative to the World Wide Web Consortium. Brian attended the W3C Advisory Committee meeting held at Rutherford Laboratories in January 1997, along with PICS working group meetings in London in January 1997 and Santa Clara in April 1997. A Mailbase mailing list has been set up to facilitate communications related to W3C activities.

Web Reengineering and UKOLN's own pages

In early 1997 UKOLN commenced a "web reengineering" process. This involves an audit of the existing web service, including both technologies and procedures, and recommendations for the introduction of improved services. UKOLN is increasingly using the web more effectively to disseminate the results of our work and as a publishing medium. We are making use of the web as a test bed for piloting various aspects of our research activities, including use of metadata for resource discovery and information management purposes.

UKOLN maintains web-based informational resources on each of its areas of work: metadata, public library networking, distributed library systems and bibliographic management, as well as a range of other UKOLN-based material.

Hardware Developments

Over 1997, UKOLN has developed its internal network to make more effective use of its Unix servers: Lamin (the office file server) and Unicycle (the web server). In addition to these two systems a new machine called Scoop has been purchased to run Metadata related services. All three machines contribute to parts of the newly designed and distributed web service, with Unicycle serving most of the core service pages, Lamin serving personal pages and Scoop running web fronted services such as ROADS searches.

Unicycle is a SUN 670MP (currently running on one of its two processors) with 128Mb RAM, 7Gb disk and an eXabyte tape backup system. Scoop is a SUN Ultra 1 170 with one 167Mhz UltraSPARC processor, 256Mb RAM and 12Gb disk. Lamin is a SUN SPARCstation 5 with 64Mb RAM and 17Gb of disk. UKOLN is currently hoping to replace Unicycle with a powerful Sun Enterprise 3000 dual processor with 256 Mb RAM and 12 Gb disk.

The office PC environment has been developed, with all staff having access to PCs running Microsoft Windows 95 or Microsoft Windows NT.

Staff

In November 1996 Brian Kelly was appointed as UK Web Focus. As well as his involvement in web activities, he is responsible for managing UKOLN's Information Services Group. The Information Services Group comprises Brian Kelly, John Kirriemuir (UKOLN Information Officer), Isobel Stark (Web Officer) and Glen Monks (Networked Systems Officer).

Promotions and events

UKOLN provides an event organisation service to high-quality, professional standards. We organise events on our own behalf and also for JISC (who provide some additional support for this service). The following events were organised during the year.

5 September 96	Z39.50 introduction and demonstrations at Libtech, Hatfield
25 September 96	Follett lecture (Sheila Creth), Derry City (also video-conferenced to Cardiff Manchester and Glasgow)

30 September 96	Follett lecture (Sheila Creth), London
25 October 96, 8 November 96	ELib concertation days, London
13 November 96	Follett lecture (Carla Stoffle), Cardiff
27 November 96, 4 December 96	ELib concertation days, London
16-17 December 96	MODELS 4 workshop, Warwick
19 March 97	Follett lecture (Peter Graham), Leicester
24-25 March 97	BLRIC workstations symposium, London
14-15 April 97	MODELS 5 workshop, Bath
30 April - 1 May 97	CEI/CIC managing electronic journals conference, Warwick
2 June 97	Serials seminar, London (MODELS supporting studies presentations)
14-15 June 97	Working Together workshop, Warwick (organised part UKOLN, part eLib/JISC) [pre-conference event]
16-17 June 97	Beyond The Beginning Global Digital Library conference, London
18 June 97	Metadata: what is it, London [post-conference event]
16-17 July 97	Webmaster workshop, London

Staff

Events are organised by Hazel Gott with some administrative support from Ali Cook and Ruth Burt. In 1997 we have retained the part time services of Birgit Kongialis to assist with conference preparation.

UKOLN funding

Over the last couple of years UKOLN has diversified its funding base, a trend that is likely to continue. This section summarises UKOLN's sources of income and outlines how its funds are spent.

Breakdown of current funding

Core funding

The core grant is jointly funded by BLRIC and JISC. Currently this funding supports UKOLN's bibliographic management, public library networking and distributed library systems work. It also supports some information services, some promotional services, administrative support and the Director. This funding supports UKOLN's national advisory and policy role as well as ongoing participation in national initiatives.

JISC projects

Additional support from JISC funds promotion work and information services (acknowledging Ariadne and eLib effort). JISC also supports UK Web Focus, a post which advises on emerging web technologies and the eLib projects ROADS and NewsAgent. UKOLN has received funds for workshop and consultancy support for the MODELS project from CEI and from BLRIC.

BL projects

UKOLN has initiated several projects in the public library sector without seeking additional staff funding. Current projects are: Stories from the Web (led by Birmingham Central Library), Circe (led by Gloucestershire public library) and People Flows (led by UCE). These allow collaboration with others in areas that UKOLN sees as important. These projects are being funded by BLRIC. The new post of Webwatch will also be supported by BLRIC. With the exception of People Flows work on these projects will begin in 1997/98.

EU projects

UKOLN currently receives European funding for work on DESIRE and BIBLINK. These projects have been successfully extended and Exploit (a project will develop a web magazine

and other dissemination services) and PRIDE (a project looking at directory frameworks for people and resources), both funded by the Libraries Programme under the Fourth Framework Programme will also begin in 1997/98.

The following table summarises UKOLN income for the three (financial) years 95/96, 96/97, 97/98.

	<i>Income 95/96 (£)</i>	<i>Income 96/97 (£)</i>
Core funding	191131	232510
JISC projects	48552	164300
BL projects	4298	5000
EU projects	11939	56526
Other income	20866	8028
<i>Sub total</i>	<i>276786</i>	<i>466364</i>
JISC funded events/studies	82987	72734
BL funded events	5171	17843
JISC/BL/CNI funded events	17972	1960
<i>Total income</i>	<i>382916</i>	<i>558901</i>

Explanatory notes

Projects

Typically, project funding has been levelled over the period of the grant in question. In the case of projects that are still ongoing, funding that has been received as of June 1997 has been recorded. The balances left from the original budgets have been apportioned over the period that the projects have left to run.

Events and studies

These categories represent income that is spent on buying in services (consultancy, accommodation, etc.). For events that have occurred recently, final figures for income are not yet known. In these instances, likely income has been estimated where possible

Current breakdown of staff funding as at July 1997:

	Core funding	JISC project funding	EU project funding
Ruth Burt	100%		
Ann Chapman	100%		

Ali Cook	100%		
Sally Criddle;	100%		
Michael Day		75%	25%
Lorcan Dempsey	100%		
Hazel Gott	50%	50%	
Rachel Heery		10%	90%
Brian Kelly		100%	
John Kirriemuir	100%		
Birgit Kongialis	100%		
Glen Monks	100%		
Sarah Ormes	100%		
Andy Powell	12.5%	35%	52.5%
Penny Rogers	100%		
Rosemary Russell	100%		
Isobel Stark	20%	80%	

Note: we have retained the part-time services on a casual basis of Birgit Kongialis. This is to support the recent Beyond the Beginning and associated events. Her time has been charged to core.

‘Core’ Income and expenditure

The BLRIC funding period covers a financial year; whilst the JISC’s covers an academic year. The BLRIC requests that UKOLN present accounts for the financial year. The following tables summarise accounts for the financial year 1 April 1996 to 31 March 1997 and for the first quarter of the current financial year, 1 April 1997 to 31 March 1998. (The budget is calculated on the sum of the BLRIC and JISC grants).

1 April 1996 to 31 March 1997

	Annual budget	Expenditure	Balance	% Budget spent
Staff costs	195460	181544	13916	93%
Travel and subsistence	7154	7212	-58	101%
Recurrent	17170	17216	-46	100%
Non-recurrent	17044	9657	7387	57%
Total	236828	215629	21199	91%

1 April 1997 to 31 June 1997

	Annual budget	Expenditure	Balance	% Budget spent
Staff costs	206449	53673	152776	26%
Travel and subsistence	7556	3745	3811	50%
Recurrent	18135	3290	14845	18%
Non-recurrent	18002	3141	14861	17%
Total	250142	63849	186293	26%

This table presents summary accounts for the first quarter of the financial year 1997/98.

Publications, presentations, committees, visitors

UKOLN has extensive formal and informal dissemination and communication channels. A selective list of publications and presentations follows.

Publications

Ann Chapman

1994 revisited: a year in the life of the BNB MARC currency survey. *International Cataloguing and Bibliographic Control* [To be published in vol. 26 (2) 1997].

Bibliographic record provision in the UK. *Library Management*, 18 (3) 1997, p.121-123.

The BNB MARC Currency Survey. *Ariadne* (web version) Issue 6, November 1996.

Michael Day

Extending metadata for digital preservation. *Ariadne* (web version) Issue 9, May 1997.

Selection criteria for quality controlled information gateways. Report for Work Package 3 of Telematics for Research project DESIRE, May 1997.
<URL:<http://www.ukoln.ac.uk/metadata/DESIRE/quality/>>

The role of classification schemes in Internet resource description and discovery. Report for Work Package 3 of Telematics for Research project DESIRE, February 1997.
<URL:<http://www.ukoln.ac.uk/metadata/DESIRE/classification/>>

Review of: Wright, P. The village that died for England: the strange story of Tyneham. London: Jonathan Cape, 1995. Published in *TESG - Tijdschrift voor Economische en Sociale Geografie* 88 (1), 1997, p. 94-95.

Metadata formats. Deliverable D1.1 - Work Package 1 of Telematics for Libraries Project BIBLINK, December 1996. <URL:<http://www.ukoln.ac.uk/BIBLINK/wp1/dl.1/>> (With Rachel Heery)

Review of: Helal, A.H. and Weiss, J.W. (eds.) *Electronic documents and information: from preservation to access*. 18th International Essen Symposium, 23-26 October 1995. Essen: Universitätsbibliothek Essen, 1996. Published in *The Electronic Library* 14 (6), December 1996, p. 573-574.

Lorcan Dempsey

'Clumps' - or distributed access to scholarly material. *Program*, 31(3), July 1997. (With Rosemary Russell.)

A review of metadata: a survey of current resource description formats. Deliverable for Work Package 3 of Telematics for Research Project DESIRE. Part 1. March 1997. (With Rachel Heery)

The Internet, networking and the public library. London: Library Association Publishing, 1997. (Joint editor with Sarah Ormes, Introduction)

Electronic Libraries Programme: learning together. *Library Association Record*, 99(1), January 1997, p. 5.

Kicking up the dust in a chaotic storehouse. *The Times Higher Education Supplement*, Multimedia section iv, October 11, 1996.

Scientific information supply: building networked information systems. *The Electronic Library*, Vol 14, No. 4, August 1996. (With Maria Heijne)

The Warwick Metadata Workshop: a framework for the deployment of resource description. *D-Lib Magazine*, July/August, 1996. (With Stu Weibel)

ROADS to Desire: some UK and other European metadata and resource discovery projects. *D-Lib Magazine*, July/August, 1996.

Moving upstream. *Blackwell's the Well*, 1(2), 1996, p.4-5. (Interview)

Review of *Public libraries of Europe* [Web site]. *Ariadne*, Issue 7, 1997.

The Information Motorway: a review of the *M25 Consortium web site*. *Ariadne*, Issue 6, 1996.

Hazel Gott

Beyond the beginning: the Global Digital Library. *Ariadne* (web version) Issue 8, March 1997.

Rachel Heery

Metadata formats. Deliverable D1.1 - Work Package 1 of Telematics for Libraries Project BIBLINK. <URL:<http://www.ukoln.ac.uk/BIBLINK/wp1/dl.1/>>

A review of metadata: a survey of current resource description formats. Deliverable for Work Package 3 of Telematics for Research Projects DESIRE. Part 1. (With Lorcan Dempsey)

Review of metadata formats. *Program*, 30(4), October 1996. Pp. 345-373.

Brian Kelly

Beyond browsing and authoring: future developments on the web. In: *The Internet in 3D*. London: Academic Press, 1997.

Introducing... Web Focus! *Ariadne* (web version) Issue 8, March 1997.

Web Focus Corner: report on the WWW 6 Conference. *Ariadne* (web version) Issue 9, May 1997.

World Wide Web journal review. *Times Higher Educational Supplement* (details to be supplied).

John Kirriemuir

Mirroring and caching network-based resources. In: *4th Elvira Conference Proceedings*, ed. Clare Davies and Anne Ramsden. London: Aslib, 1997. (With Jon Knight.)

Down your way:? *Ariadne* (web version) Issue 8, March 1997.

The Professional Web-zine and parallel publishing. *Ariadne*: the web version. *D-Lib*, February 1997.

Sidelines: Seagulls and Boomerangs. *Ariadne* (web version) Issue 5, September 1996.

At the event: Libtech 96. *Ariadne*, (web version) Issue 5, September 1996. (With Isobel Stark).

Sarah Ormes

A summary of current public library research at UKOLN. *EARL Newsletter* (In press)

Internet activity in public libraries. *Online* (In press).

Models 5: Workshop report and futures. *Ariadne* (web version) Issue 9, May 1997.

Internet, networking and the public library. London: Library Association Publishing, 1997.

An overview of the UK public library networking projects. In: *Internet, networking and the public library*. London: Library Association Publishing, 1997.

A comparison of Internet connectivity in the USA and UK, 1997. In: *Internet, networking and the public library*. London: Library Association Publishing, 1997. (With Professor Charles McClure.)

Treasure Island on the WWW. Fiction, OPACs, Networks. In Proceedings of the 1st research seminar on electronic access to fiction, multicultural knowledge interaction and communication of culture via networks, ed: Hanne Albrechtsen and Clare Beghtol. [To be published by Royal School of Librarianship, Copenhagen, August 1997.]

Life after the Millennium Bid. *Ariadne* (web version) Issue 7, January 1997.

Treasure Island on the WWW. *Ariadne* (web version) Issue 6, November 1996.

Commercial partnerships in the public library. *Ariadne* (web version) Issue 5, September 1996.

Andy Powell

Performance and security - notes for systems administrators. *Ariadne* (web version) Issue 8, March 1997.

Unique identifiers in a digital world. *Ariadne* (web version) Issue 8, March 1997.

Controlling access in the electronic library. *Ariadne*, (web version) Issue 7, February 1997. (With Mark Gillet.)

Rosemary Russell

Clumps... or organised access to printed scholarly material. *Program*, 31(3), July 1997. (With Lorcan Dempsey.)

Searching in clumps. *Library Technology*, 2 (3) June 1997, p.64.

MODELS. *Ariadne* (web version) Issue 8, March 1997.

Isobel Stark

Down your way: University of Bath. *Ariadne* (web version) Issue 9, May 1997.

Review of *The student's guide to the Internet*. *Ariadne* (web version) Issue 8, March 1997.

Disabil-IT? Conference. *Ariadne* (web version) Issue 8, March 1997.

View from the hill: John Ferguy. *Ariadne* (web version) Issue 8, March 1997.

Review of *The end-user revolution*. *Information World Review*, December 1996, p. 60.

Down your way: at John Moores. *Ariadne* (web version) Issue 6, November 1996.

BIDS hits the Web. *Ariadne* (web version) Issue 5, September 1996.

At the event: Libtech 96. *Ariadne*, (web version) Issue 5, September 1996. (With John Kirriemuir.)

Presentations

Ann Chapman

UKOLN's bibliographic management research. UKOLN Information Day, British Library, Boston Spa, June 1997.

UKOLN's bibliographic management research. UKOLN Information Day, British Library, London, 9 December 1996.

Michael Day

Interoperability between metadata formats. ROADS workshop, London, 8 August 1996.

Lorcan Dempsey

Metadata: a UK perspective. Beyond the beginning, London, 16-17 June 1997.

Introduction and Metadata. UKOLN Information Day, British Library, Boston Spa, June 1997.

Network infrastructure. Managing access to a distributed library resource: MODELS workshop 5, Bath, 14-15 April 1997.

The EU Libraries Programme: criteria for successful proposals. 4th Framework RTD Programme: Libraries Programme: Information briefing. A meeting organised by An Chomhairle Leabharlanna and Forbairt, Forbairt, Dublin, 3 March 1997.

Networked information resources: towards the remote control. UKERNA/ISSC Library Strategy Workshop, Robinson College, Cambridge, 6-7 January 1997.

Introduction and Metadata. UKOLN Information Day, British Library, London, 9 December 1996.

The EU Libraries Programme: criteria for successful proposals. Second national information day followed by the tutorial "How to make a good proposal" A workshop organised by the British Council, the DBI and others. Stuttgart, 25-26 November 1996.

Towards distributed systems for libraries: the MODELS project. Anglo-Nordic Seminar on networking, Lund, 11-13 October 1996.

Adapting to reality: libraries and computers. BIALL Annual conference, Belfast, 7 September 1996.

Standards issues. ROADS workshop, London, 8 August 1996.

Rachel Heery

The metadata landscape. Metadata - What is it? seminar, London, 18 June 1997.

Metadata developments in eLib and European projects. National Library of Australia, Canberra, 6 March 1997.

ROADS Project. CNI Fall 1996 Task Force Meeting, San Francisco, 6-7 December 1996.

State-of-the-art in UK metadata. Anglo-Nordic Seminar on Networking, Lund, 11-13 October 1996.

Template issues. ROADS. ROADS workshop, London, 8 August 1996.

Brian Kelly

Technical aspects relating to copyright and the web. Talisman specialist seminar on copyright and the web, Edinburgh, 23 June 1997.

Associated developments on the World Wide Web. Metadata - What is it? seminar, London, 18 June 1997.

Z39.50 and the JISC services. JASPER meeting, London, 9 June 1997.

WWW 6 Trip Report. University of Bath CIS Group meeting, 30 April 1997 and University of Bristol, 13 June 1997.

An Introduction to Metadata. 2nd Annual OMNI Conference, London, 23 January 1997.

Overview of document formats. eLib Concertation Day, London, 8 November 1996.

Ariadne - the web version: Future formats. Ariadne Editorial Board Planning Conference, Warwick, 16-17 December 1996.

UKOLN ISG Activities. UKOLN Information Day, British Library, London, 9 December 1996.

John Kirriemuir

Mirroring and caching network-based resources. 4th Elvira Conference, De Montfort University, 6-8 May 1997.

ROADS. 2nd Annual OMNI Conference, London, 23 January 1997.

Sarah Ormes

Introduction to the Internet. Bath/Bristol/UWE MSc in Information and Library Management, Bristol, 5, 19, 26 February 1997.

Public library work at UKOLN. UKOLN Information Day, British Library, London, 9 December 1996.

Treasure Island on the WWW. Fiction, OPACS, Networks: Research Seminar, Copenhagen, 12 November 1996.

Andy Powell

Metadata Management, data creation and harvesting. Metadata - What is it? London, June 1997.

Dublin Core: effective resource discovery. UKOLN Information Day, British Library, Boston Spa, June 1997.

Technical developments within Newsagent and ROADS. UKOLN Information Day, British Library, London, 9 December 1996.

Rosemary Russell

Z39.50 implementation. Z39.50 seminar and JASPER meeting, London, 9 June 1997.

The MODELS project. UKOLN Information Day, British Library, Boston Spa, June 1997.

Scene setting: serials standards issues; and, Standards for document requesting. Standards for serials (a meeting to present the findings of serials studies commissioned by UKOLN), London, 2 July, 1997.

MODELS update. Managing access to a distributed library resource: MODELS workshop 5, Bath, 14-15 April 1997.

MODELS update. Integrating access to resources across domains: MODELS workshop 4, University of Warwick, 16-17 December 1996.

Frameworks for distributed systems. UKOLN Information Day, British Library, London, 9 December 1996.

Z39.50: what is it? Z39.50 seminar, Libtech, University of Hertfordshire, 5 September 1996.

MODELS and plans for EARL task groups. EARL Council meeting, Libtech, University of Hertfordshire, 4 September 1996.

Isobel Stark

Medievalists and the Internet. International Medieval Congress, University of Leeds, 8-11th July 1996.

Towards a strategy for supporting distance learning students through networked access to information. With Joan Carty, Robert Vanderzwan & Nicky Whitsed, NetLinkS 1st symposium on Networked Learner Support, The University of Sheffield, 17th-18th June 1996.

Ariadne: a brief overview. CTI Forum XVII, April 1997.

Committees

Ann Chapman

- ☐ BIC Bibliographic Standards Technical Sub-Group.
- ☐ LASER working party on ILL for Non Book Materials.

Lorcan Dempsey

- ☐ JNT Association Board (University of Bath representative)
- ☐ Library and Information Commission International Sub-committee
- ☐ EARL Management Board
- ☐ BIC Digital Publishing working party
- ☐ Information for All (member of board of directors)
- ☐ LIC Public Library Networking Plan Working Group
- ☐ EDINA Steering Committee
- ☐ Espere Steering Committee
- ☐ TASI Advisory Group
- ☐ Co-Director Ariadne project
- ☐ Member of steering/executive committee of ROADS, Ariadne, Newsagent (UKOLN collaborative projects)
- ☐ Member of editorial boards of *Program*, *PACS Review* and *New Review of Information Networking*.

Brian Kelly

- ☐ Netskills Advisory Committee
- ☐ SCRAN Technical Advisory Group

Sarah Ormes

- ☐ LIC Public Library Networking Plan Working Group, sub group on research.
- ☐ Steering/advisory group for Stories from the Web and People Flows.

Andy Powell

- ☐ Chair, Campus Information Services Group, University of Bath.
- ☐ University of Bath Information Services Committee.

Rosemary Russell

- ☐ Janet User Group for Libraries Committee.
- ☐ UK Z39.50 Implementors' Group (secretariat).
- ☐ BLRIC Advisory Panel on Digital Library Research.

Selective list of visitors

01-08-96	Norman Wiseman (Head of Programmes, JISC)
21-08-96	Robin Murray (Fretwell Downing)
21-08-96	Maria Sliwinsska (Nicholas Copernicus University, Poland)
09-09-96	David Martin (Book Data)
17-09-96	Deborah Hiom, Paul Hoffman, Emma Worsfold (University of Bristol)
19-09-96	Catherine Charles, Martha Johnson (OCLC)
04-10-96	Nada V. Nadasabapathy (Murdoch University, Australia)
08-10-96	James Kennedy (Audit Commission)
21-10-96	Judith Greenaway and Kerry Blinco (JEDDS)
24-10-96	Peter Bradley (Rhondda Cynon Taf Libraries)
25-10-96	Dan Greenstein (AHDS)
15-11-96	Charles Oppenheim and Marilyn Deegan (International Institute for Electronic Library Research)
18-11-96	David Brown (BIDS)
20-11-96	Ray Lester and colleagues (Natural History Museum)
22-11-96	Myles Chippenham (John Radcliffe Hospital, Oxford)
12-12-96	Sheila Harden (London Borough of Richmond upon Thames)
13-12-96	Catherine Hume (Project EARL)
16-12-96	Carole Heaton (Askews)
13-01-97	Julia Reynolds (Elsevier)
22-01-97	Brian Green, Tony Hall, John Akeroyd and Nigel McCartney (BIC)
24-01-97	Frank Norman (OMNI), Chris Armstrong (CIQM)
27-01-97	Peter Stone (Consultant)
28-01-97	Martin Dudley (Information for All)
05-02-97	Jonathan Purday (British Library)
06-02-97	Ross Bourne (British Library)
24-02-97	Paul Gath (Level 7)
10-03-97	Luis Macchiaavello (Infolog)
18-04-97	Maria Carmen Romcy de Carvalho (Brazil)
08-05-97	Dr David Thomas, Meg Sweet, James Martin and Derek Breeden (Public Record Office)
30-05-97	Clare Davies (IIELR)
06-06-97	Maxine Brodie (New South Wales Libraries, Australia)
20-06-97	Pamela Pavliscake (Rice University, USA)
16-07-97	Mr Kazim (University of New South Wales)
24-07-97	Anoop Kumar Srivastava (Institute Computing Manager, Indian Grassland and Fodder Research Institute, India)