

Compliance or culture?: Achieving Quality in Academic Library Services

J. Stephen Town Cranfield University



Personal perspectives

- Performance measurement, performance improvement, or performance?
 - SCONUL ACPI (http://www.sconul.ac.uk/activities/performance/)
 - Toolkit(s) for UK & Irish Libraries (e.g. Town, 2004a, 2003, 2000a, West, 2001)
- Philosophical and social
 - 'Behaviour follows measures' (Town, 2000b)
 - Qualitative and quantitative measurement (Town, 2004b)
 - Sceptical views (Town, 2002a)
- Managerial
 - Contractual context: quality delivery & competitive pricing
 - Institutional Strategy & decision making



Introduction & Summary

- UK approaches to Quality & QA in HE
- SCONUL ACPI Initiatives
- Measurement Frameworks
- Practical experience



UK HE Quality & QA



Approaches to Quality

- Quality Assurance
 - The Quality Assurance Agency (QAA)
 - ISO Standards
- Established Patterns of Peer Review
 - Research Assessment Exercise
- Batteries of Indicators
 - HESA
 - SCONUL & HELMS
- Quality Culture
 - TQM
 - Investors in people



UK HE Institutional QA

- Institutional Audit
- QAA Subject Reviews (TQA/AQE)

Now replaced by

- "Light touch" regime (see http://www.qaa.ac.uk/)
 - Self Evaluation Document (SED)
 - Discipline Audit Trails (DATs)
 - QAA Visit methodology



Dimensions of Assessment

- Course Structure & curriculum
- Learning & Teaching Strategy*
- Assessment strategy & methods
- Student progression & achievement*
- Learning Resources & Support***
- Quality enhancement & standards maintenance** (includes student views)



Examples

- Institutional Audit
- Management "Excellent"
- Other Subjects Allied to Medicine 21
- General Engineering 20
- Information & Library Management 24
- Learning Resources achieved 4s throughout



SCONUL ACPI Initiatives

Eight performance improvement tools



1. Quality Assurance



Guidance from QAA for Auditors

- Reviewers should ask:
 - Is there an overall strategy for the deployment of learning resources?
 - How effectively is learning facilitated in terms of the provision of resources?
 - Is suitable teaching and learning accommodation available?
 - Are the subject book and periodical stocks appropriate and accessible?
 - Are suitable equipment and appropriate IT facilities available to learners?
 - Is appropriate technical and administrative support available?
- They should then evaluate the appropriateness of the learning resources available, and the effectiveness of their deployment.



- 1 Strategy, planning and liaison
 - 1.1 Is there an overall strategy for the deployment of learning resources?
 - 1.2 Does this strategy support the intended programme outcomes?
 - 1.3 Is it being effectively facilitated in terms of the provision of learning resources and thus appropriate learning opportunities for these students?
 - 1.4 How do the computing and library services become aware of course development and review?
 - 1.5 How do the computing and library services become aware of the intended learning outcomes?
 - 1.6 Do these arrangements work well, meeting the real needs in a timely fashion?



- 1 Strategy, planning and liaison
 - 1.7 How do the library, computing and teaching staff communicate with each other, and how well does this work?
 - 1.8 How do the library and computing staff communicate with students, and how well does this work?
 - 1.9 In what ways are students and staff encouraged and enabled to make effective use of the range of library and computing services available?
 - 1.10 What mechanisms are in place for making teaching staff aware of the opportunities which new information and communications technologies offer to add value (appropriateness and effectiveness) to teaching delivery and student learning opportunities?



- 2 Evaluation and feedback
 - 2.1 How are the appropriateness and effectiveness of computing and library services to the intended learning outcomes and to the quality of student learning opportunities evaluated?
 - 2.2 How is this fed back into service improvement?

SCONUL Guidelines for QAA Institutional Audit in England



- 3 Provision for the courses being evaluated
 - 3.1 Relevance of learning materials
 - 3.1.1 Are the available library and computing resources effective (quality) and adequate (quantity) to support the taught courses, in particular in respect of books, periodicals and electronic information resources, datasets, software, on-line learning environments and equipment?
 - 3.1.2 How are these learning resources, and the means of their delivery, selected and updated?



- 3.2 Availability and accessibility
 - 3.2.1 How well-matched are the availability and locations of the services to the needs of the students?
 - 3.2.2 How accessible are the library and IT facilities for all groups of students (e.g. part-time, disabled, distance learning)?
 - 3.2.3 How adequate (quantity) and effective (quality) is the library study accommodation for student needs?
 - 3.2.4 How adequate (quantity) and suitable (quality) are the workstation and other computing and data networking facilities for student needs?
 - 3.2.5 If the course is fully delivered by distance learning, do its students have adequate and effective provision of learning resources?



- 3.3 User support
 - 3.3.1 What skills training is offered to students and staff?
 - 3.3.2 What arrangements are in place for promoting services and responding to enquiries? How effective are they?
 - 3.3.3 What steps are taken to enhance and update skills of library and computing staff in order to ensure the quality of support services?

SCONUL Guidelines for QAA Institutional Audit in England

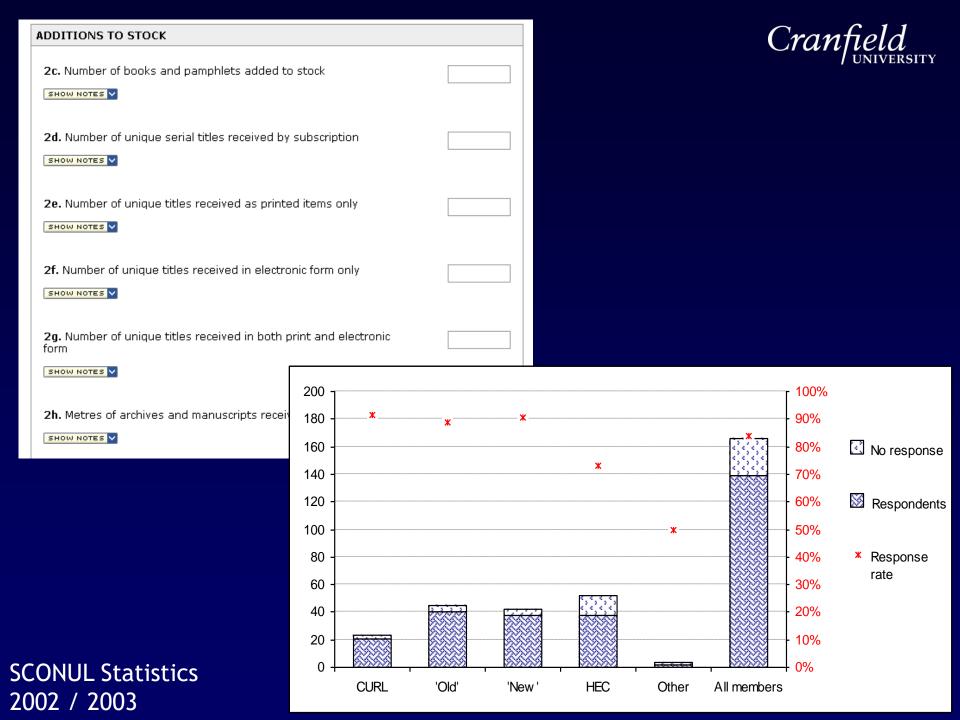


2. SCONUL Statistics



Data Elements

- Library provision & use
- Stock provision
- Stock expenditure
- Stock use
- Interlibrary activity
- Enquiries
- Staff workload
- Efficiency measures
- Expenditure ratios
- Net expenditure
- Percentages of total library expenditure
- Percentage breakdown of total information expenditure





Automation Project

- Project aimed to automate reports from the statistics for members
- Data input on a Web-based form
- Once complete, institutions can interrogate the database, run reports, and produce graphs and charts relevant for their local needs



Application of SCONUL Statistics

Napier University Service Standards:

- SCONUL Statistics used to measure library performance
- Performance target:
 - At least 1400 reader places will be provided...
- Result:
 - In the SCONUL year 1999-2000 some 1451 reader places were available...

Napier University http://nulis.napier.ac.uk/Statistics/Pls.htm



3. National Performance Indicators (HELMS)



Background to Project

Project aimed to develop a small set of performance indicators for academic libraries, primarily (but not exclusively) aimed at the funding bodies and Vicechancellors and Principals, using the indicators recommended in *The Effective Academic Library* as a starting point.



Measures

- Management Statistics
- Library Contextual Data
- Institutional Contextual Data



Measures Defined

- Management Statistics
 - Total library expenditure per FTE user
 - Expenditure on information provision per FTE user
 - Expenditure on staffing per FTE user
 - Seat hours per week per FTE user
 - Loans per FTE user
 - Inter library loans (ILL) as a percentage of all loans



Measures Defined (2)

- Library Contextual Data
 - Number of libraries
 - Space occupied (m²)
 - Size of collection (volumes)
 - Number of seats available
 - Number of workstations
 - Total library expenditure



Measures Defined (3)

- Institutional Contextual Data
 - Number of students (FTE)
 - Percentage of post-graduate students
 - Percentage of part-time students
 - Number of academic and research staff (FTE)
 - Proportion of Funding Council funding for research

Library Management Statistics

Table 1: Library Statistics 1997/98 (cont)

	HESA statistics		SCONUL LIBrary	
	Expenditure on			
	Central libraries		Expenditure on	
	and Information	Total Library	Information	Expenditure on
	Services	Expenditure	Provision	Stating
	per FTE User	per FTE User	per FTE User	per FTE User
	(2)	(1)	(0)	
	158	165	73	72
The University of Keele	254	298	107	152
The University of Kart at Carserbury	196		39	1
Visat Institute of Art & Design	216		43	
King Alfred's College, Winchester	268	358	97	171
King's College London	224	218	70	110
Kingston University	232	225	102	106
The University of Lancaster	167	1	Ť	
Leeds Metropolitan University	326	350	111	133
The University of Leeds	259	278	115	
	337	1	63	110
The University of Lincolnshire and Humberside The University of Lincolnshire and Humberside	160	152	44	
THE DIMETRY O COMPANY	205	201	59	9
Liverpool Hope Liverpool John Moores University	200	191	508 87	112
Uverpool John Moores University	202	491		25
The University of Liverpool		491	198	254
London Business School	4585			
University of London (institutes and activities) (1)	244	1	53	
London Guildhall University	240			
	445	495	136	274
The London Institute (2) London School of Economics and Political Science	519		*	3
Linestee School of Humana and Litopical Medicane	124	1	1	3
Loughborough College of Art and Design	317	232	111	9
Loughborough University	154	164	45	8
	182	208	82	
University of Lation The University of Manchester Institute of Science & Technology	251	187	64	12
The Manchester Metropolitan University	249	257	103	8
The Victoria University of Manchester		231		13
The victoria university or many	254		77	12
Middesex University	401	374	153	16
The University of Newcaste-upon-Tyne	221	60	16	3
Newman College	284	1	52	10
The University of North London	169	116	54	5
North Riding College Higher Education Corporation	163	166	45	7
University College Northampton	47	1	18	
Numbers School of Contemporary Dance	205	205	68	10
The University of Northumbria at Newcastle	236	222	13	13
Nonwich School of Art and Design	169		ĩ	
The Notingham Trent University		258	105	
The University of Notlingham	257			12
The Open University	207	38	15	1
Cyclord Brookers University	214	212	77	13
Catton process of Colored	845	774	174	45
The University of Caford	230	196	76	10
The University of Plymouth	567	152	53	7
The University of Portsmouth	294	1	120	15
Queen Mary and Westfield College	157			
Ravensbourne College of Design and Communication	241		92	
The University of Reading	157	124	43	8
The College of Ripon and York St John	433	235	57	
Roehantoton Institute of HE		90	25	
Rose Bruford College	100			
Royal Academy of Music	199			
Royal College of Art	417	369	71	2

Data element not supplied 1

8

Data from University of London Library amilited - see notes. Partial data received from London College of Printing only - see notes (1)

UK Higher Education Library Management Statistics 1997/98 Copyright © SCONUL/HCLRG 1999 UK Higher Education Library Management Sta Copyright © SCONUL/HCLRG 1999

7.8 7.8 8.5 8.4 7.5

Management Statistics

Seat Hours per Week per FTE User

83

4.5

12.3

6.8 4.7

5.4

9.6

1.8

per FTE Use

34 8

71

143

45

60 114

68 32

IL &

2.74 51 0.79 52 0.47 53 1.76 54 0.86 55 0.86 55 1.35 57 1.36 59 2.88 60 1.44 59

0.82 62 1.63 63 2.73 64 54.25 65

0.41 67

0.20 69

2.317 72 1.08 73 2.44 73 1.34 75 2.42 78 1.04 77 2.42 78 1.04 77 2.42 78 1.04 77 2.42 78 0.00 80 2.05 81 0.00 82 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00 83 1.00

2.04 0.75 35

97 # 98

23:

8 29 0.70 100

percentage of all Loans



Library Management Statistics



UK Higher Education Library **Management Statistics** 1997-98

SCONUL/HCLRG 1999

Cranf



4. E-Measures project

See: http://www.ebase.uce.ac.uk/emeasures/index.htm



E-Measures Project

- The e-measures project is part of the HEFCE-funded Libraries: Outcomes and Measures project. Its aims are:
- To assist libraries in decision-making and user support
- To develop a new set of current statistical and performance indicators for electronic information services (EIS) and to work with SCONUL to pilot, refine and roll them out to the sector as standard performance indicators for EIS.



Questions fall into three areas:

• Provision of stock

- Numbers of full-text serial titles, databases, e-books, digital documents, free electronic resources catalogued by the library

• Use of services

- Virtual visits, electronic enquiries, full-text article requests, database sessions and searches, use of e-books, digital documents and electronic resources available free

• Costs

- Subscriptions to serials, databases and e-books, expenditure on digital documents



Progress so far

- 25 SCONUL Member libraries piloted the measures in 2003-2004
- Not all statistics tested during the project were appropriate for inclusion in the SCONUL statistics
- Several new measures incorporated into the SCONUL statistics from 2004-2005 onwards

Conyers, 2004



E-Measures Pilot Libraries

- University of Central England
- University College Chester
- Cranfield University
- De Montfort University
- University of Derby
- University of East London
- Edge Hill College
- University of Edinburgh
- Glasgow Caledonian University
- University of Gloucestershire
- University of Greenwich
- Leeds Metropolitan University
- University of Liverpool

- Liverpool John Moores University
- Loughborough University
- University College Northampton
- University of Northumbria
- Robert Gordon University
- Sheffield Hallam University
- University of Sunderland
- University of Warwick
- University of the West of England
- University of Westminster
- University of Wolverhampton
- University of York



New SCONUL Statistics Measures

- 2d: Breakdown of 'unique serial titles' into:
 - print only (2e)
 - electronic only (2f)
 - print and electronic (2g)
- 2k 'number of electronic databases'
- 2l 'number of electronic books'
- 4r 'number of successful requests for full-text articles'
- 4s 'number of successful accesses to electronic books'
- 7g Breakdown of 'electronic resources' into:
 - 'subscriptions to electronic databases' (7h)
 - 'expenditure on e-books' (7j)
 - 'expenditure on other digital documents' (7k)



5. Information Literacy Performance Measures

What's important?



Critical Success Factor results

- Competent library staff
- Sufficient organisational resources
- Identifiable student outcomes
- Effective multi-dimensional partnerships
- Institutional strategic framework
- Sustained pedagogic quality

Town, 2002b



6. Satisfaction Surveys

Libra & LibQUAL+



SCONUL Satisfaction Survey

- A questionnaire template for user satisfaction surveys
- Adaptable to local circumstances
- Designed for analysis by Libra software, from Priority Research Ltd.
- Rating scales for satisfaction with, and the importance of, library services.

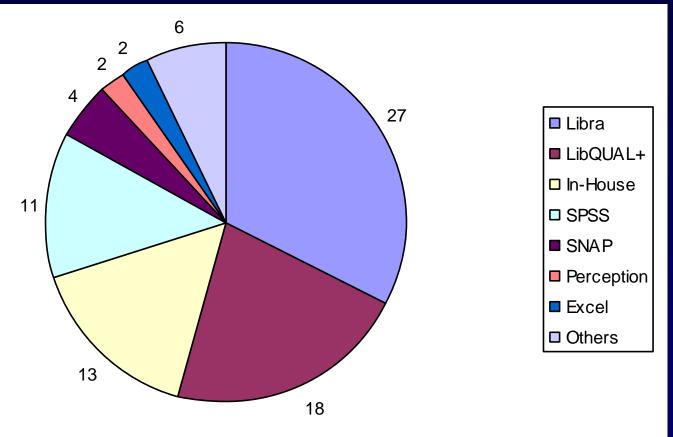


SCONUL Survey Questions include:

- Range of books
- Range of periodicals
- Course books and essential texts
- Photocopying
- Printing
- Study facilities
- Provision of computers
- Library catalogue
- Range of electronic information services
- Opening hours
- Library environment
- Helpfulness of the library staff
- Competence of the library staff



Survey methods used in the UK



West, 2004 A Survey of Surveys



LibQUAL+ 2003

- University of Bath
- Cranfield University
- Royal Holloway & Bedford New College
- University of Lancaster
- University of Wales, Swansea
- University of Edinburgh
- University of Glasgow
- University of Liverpool
- University of London Library
- University of Oxford
- University College Northampton

- University of Wales College Newport
- University of Gloucestershire
- De Montfort University
- Leeds Metropolitan University
- Liverpool John Moores University
- Robert Gordon University
- South Bank University
- University of the West of England, Bristol
- University of Wolverhampton

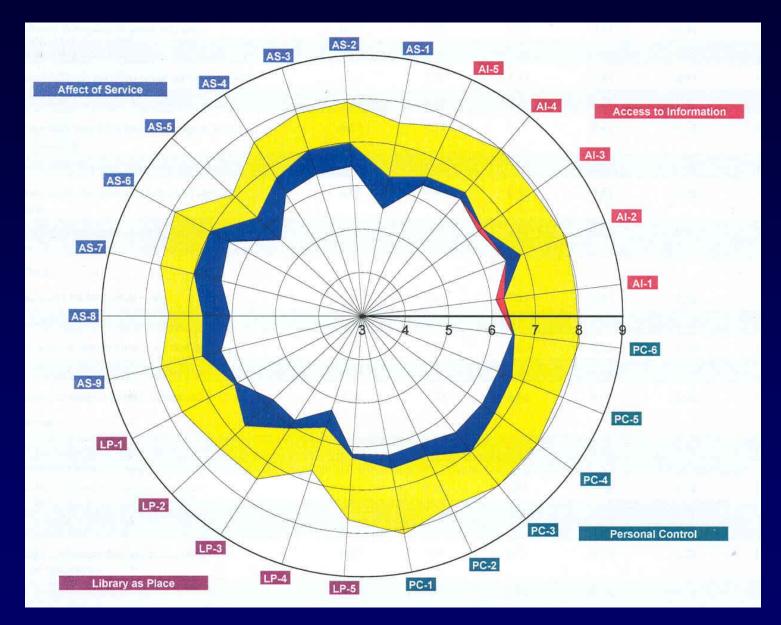


LibQUAL+ 2004

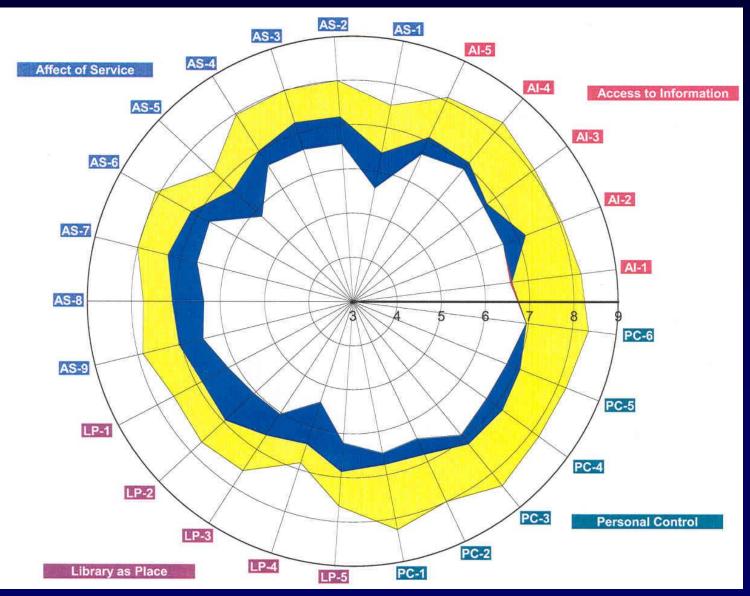
- Brunel University
- Loughborough University
- University of Strathclyde
- University of York
- Glasgow University*
- Sheffield University
- Trinity College, Dublin
- UMIST + University of Manchester
- University of Liverpool*

- Anglia Polytechnic University
- University of Westminster
- London South Bank University*
- Napier University
- Queen Margaret University College
- University College Worcester
- University of East London

SCONUL Overall results 2003

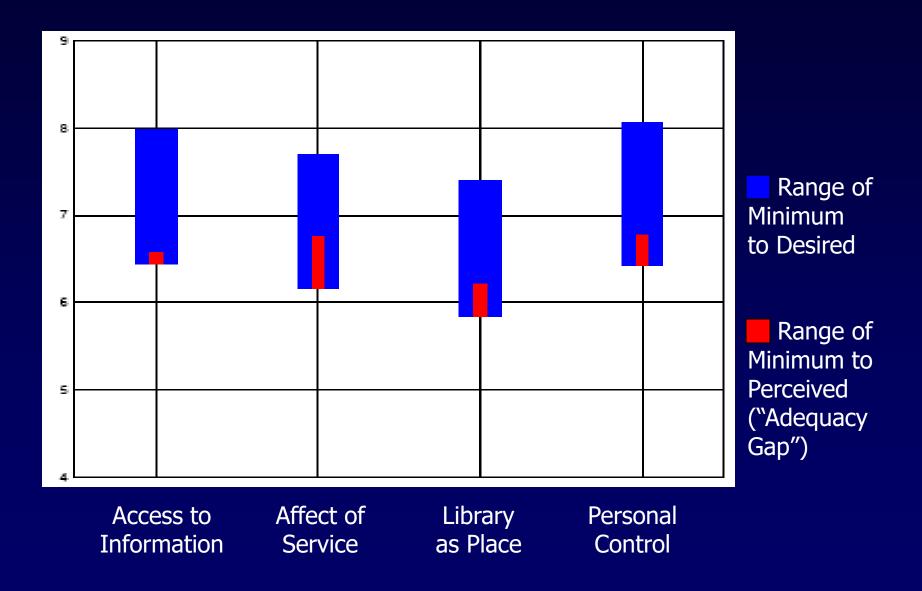


ARL Overall results 2003



Cranfield

SCONUL Dimensions Summary 2003





7. Impact Measurement



Overview of Impact Measurement

- Ten libraries across the United Kingdom are participating in the first phase of an initiative to assess the impact of higher education libraries on learning, teaching, and research.
- The initiative is being undertaken under the auspices of the Library and Information Research Group (LIRG) and SCONUL
- Each of the libraries has chosen an area of their activity where they wish to assess their impact.

Payne, et al, 2004



Impact Assessed

- The ten participating institutions have then followed a common approach to assessing impact which involves:
 - specifying objectives for what the library is trying to achieve,
 - determining success criteria,
 - establishing impact measures,
 - identifying what evidence is needed,
 - and choosing methods for gathering evidence.



Benefits of Measuring Impact

- Assessing a library's impact is not easy but the potential benefits can be considerable.
- Benefits so far discovered include:
 - Demonstrating that the library is supporting University strategy
 - Building closer links with academic staff
 - Enabling staff to gain a better understanding of academic processes



Conclusions of Impact Measurement

"Helps us to move library performance on from simply counting inputs and outputs to looking at what difference we really make."

Payne, et al, 2004



8. Benchmarking



SCONUL Pilot Projects

Objectives:

- Practical experience
- Enlarge knowledge base
- Standard methodology
- Standard metrics
- Resource for facilitation & results



Pilot Projects

- A1 Advice Desks (N)
- A2 Advice Desks (S)
- B1 Library Skills (N)
- B2 Library Skills (S)
- C Counter Services
- D Interlibrary Loans
- E Library Environment



General Conclusions

- Possible; desirable for the improving
- Needs quality and change management framework for follow through
- Methodology not problematic
- Measures very problematic
 - Best practice & partners



General Conclusions 2

- General willingness to engage in libraries
- Ethics a barrier to take-up and publication
- Time and effort required
- Training
- Strategic level group approaches growing



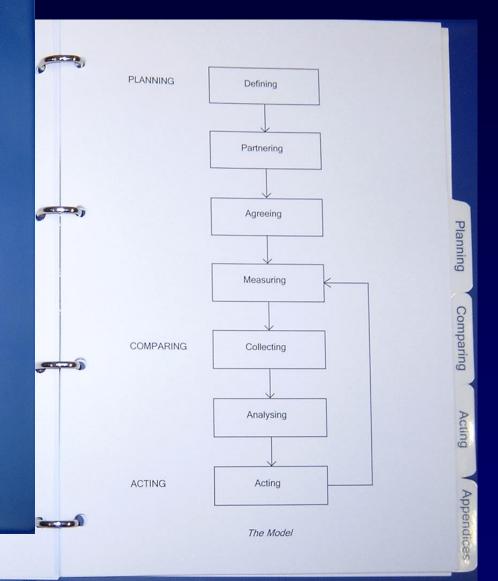
SCONUL Benchmarking Manual, 2000

- Definitions & Context
- Models, including library typology
- Three phase (seven stage) method
 - Planning, comparing, acting
- Three Pilot Case Studies

Cranfield UNIVERSITY



STANDING CONFERENCE OF NATIONAL & UNIVERSITY LIBRARES





Benchmarking Consortia

- Four Universities undertook formal benchmarking after running pilots
- Aim to provide comparative data to support decision-making and processes of continual improvement
- Also established best practice, identified improvements in processes, and evaluated customer needs.
- Project ongoing annually



Potential Measurement Frameworks



Quality perspective

'Management by use only of visible figures ... ignores customer satisfaction, employee morale or community impact'

Deming, 1986

'the most important and relevant data will be that provided by library users'

Shaughnessy (after Parasuraman et al)



What measures are we seeking?

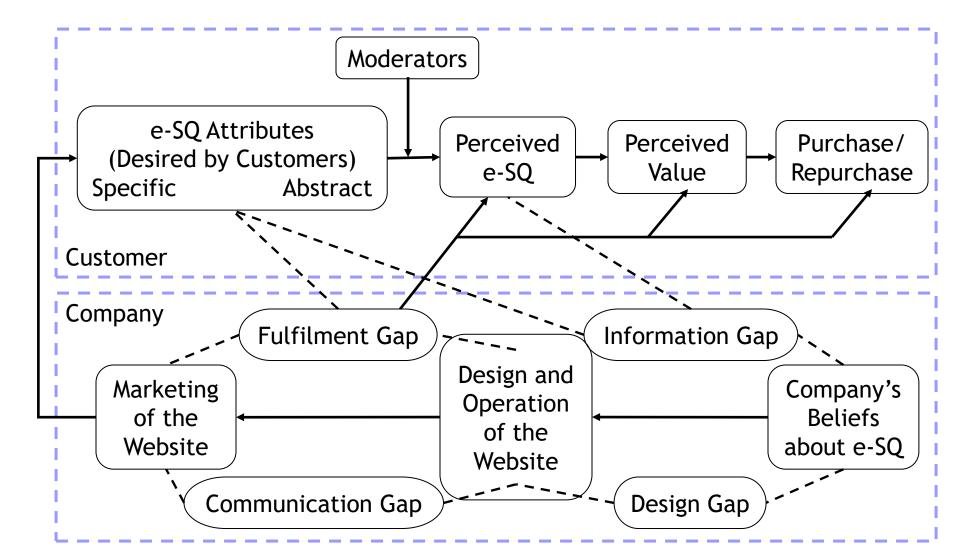
Economy Efficiency Effectiveness Cost effectiveness Market penetration Impact Higher order effects Abbott Economy Efficiency Delivery

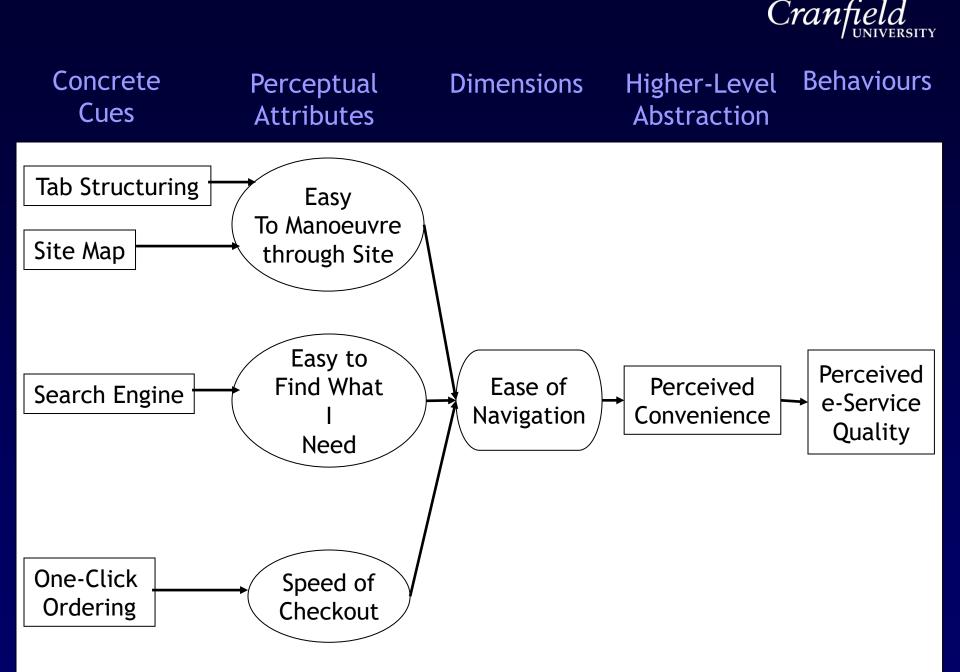
Integration Satisfaction Development *Ellard (EAL)*



e-Service quality

Conceptual Model for Understanding and Improving e-Service Quality







Dimensions

- Access
- Ease of Navigation
- Efficiency
- Flexibility
- Reliability
- Personalisation

- Security/Privacy
- Responsiveness
- Assurance/Trust
- Site Aesthetics
- Price Knowledge

Zeithaml, et al, 2000



Conclusions for e-services

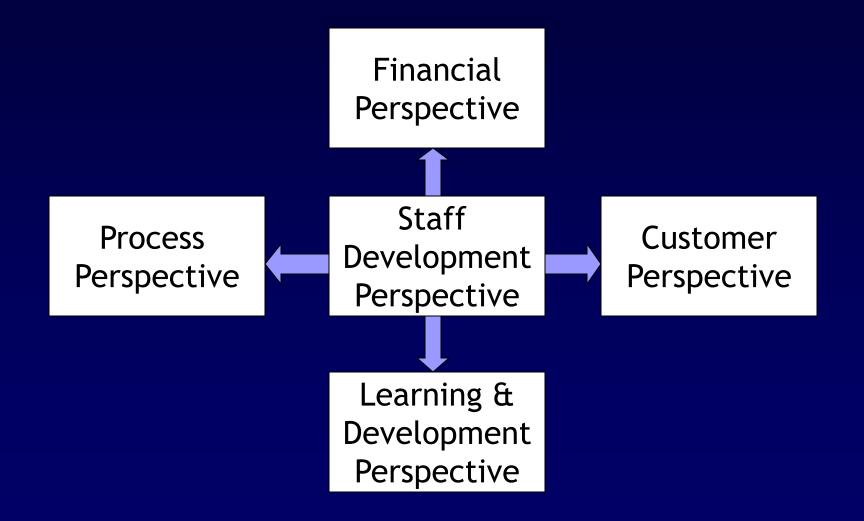
- We need to see ourselves as e-service providers
- We need to understand the processes this encompasses
- We need to understand the potential service gaps in this context
- We need to understand the user experience
- We need measures and instruments for this dimension of service



Balanced Scorecard



The Balanced Scorecard (Kaplan & Norton, 1996)



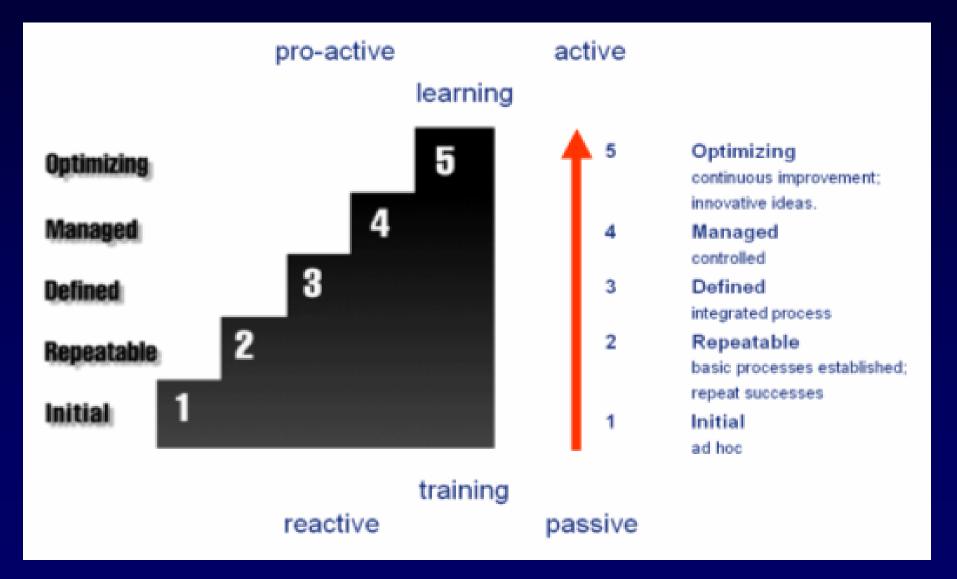


Capability Maturity Model

See: http://www.sei.cmu.edu/cmm/

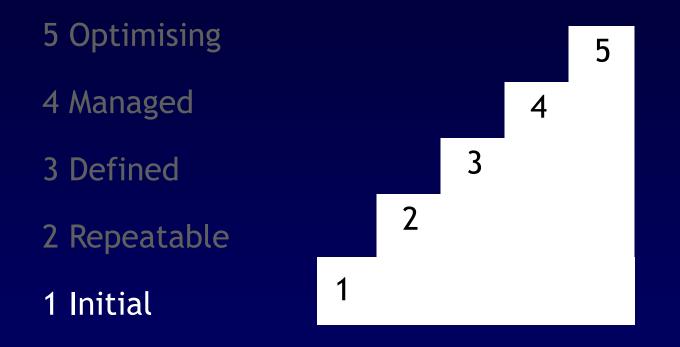


Capability Maturity Model





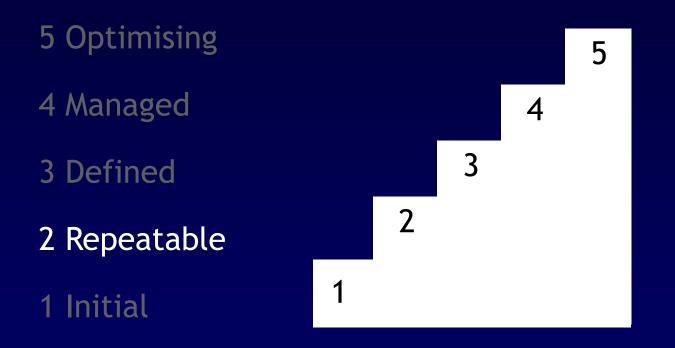
Stage 1



The software process is characterised as ad hoc, and occasionally even chaotic. Few processes and defined, and success depends on individual efforts and heroics.







Basic project management processes are established to track costs, schedule, and functionality. The necessary process discipline is in place to repeat earlier successes on projects with similar applications.







The software process for both management and engineering activities is documented, standardised, and integrated into a standard software process for the organisation. All projects use an approved, tailored version of the organisation's standard software process for developing and maintaining software.



Creating a Quality Culture



Quality Road map

- Customer Focus
- Systematic process improvement
- Total involvement of staff

Leading to

Continuous Improvement



Focus on customer service quality

Customer satisfaction

- Satisfaction surveys
- Customer expectations
 - Opinion surveys; satisfaction vs importance
- Customer understanding
 - Gap surveys; priority surveys; free comment
- Benchmarking
 - Statistical, competitive and generic



Cranfield University at RMCS

- Quality Management Student Perspective
 Survey 1993
- Exit Questionnaires 1994-
- Information Services Survey 1996
 - Priority Search
- DTC MSc & MA Course Students 1997
 - Repeat of 1996 methodology

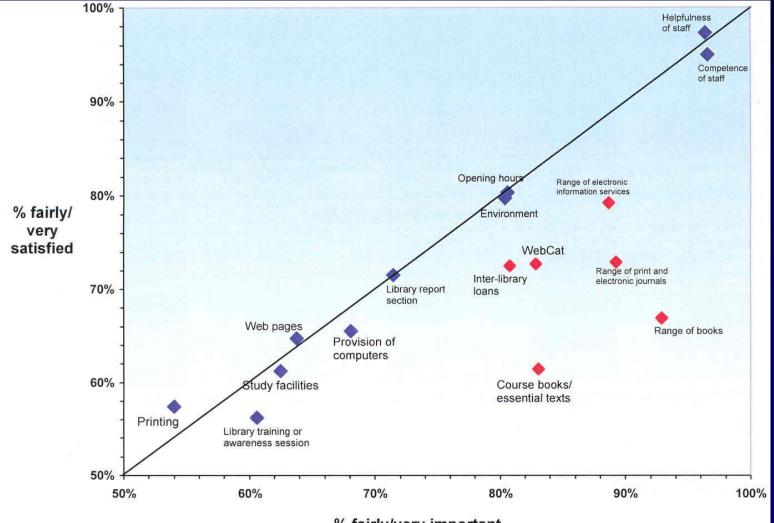


Continued ...

- Researchers Survey 1998
 - First Web-based survey; PR methodology
- SCONUL ACPI WGUS Survey 1999
 - Satisfaction vs importance template; PR analysis
- University Libraries Survey 2001
 - SCONUL template +; PR analysis
- LibQUAL+ Pilot 2003



Comparisons of Satisfaction Against Importance



% fairly/very important



Commentary

COMMENTARY

The chart above shows a comparison of the satisfaction respondents showed compared to the importance they placed on each feature.

Priorities for improvement can be extracted from this comparison. Those features with a red marker represent an item which is considered important to respondents and yet did not receive a comparable rating of satisfaction. Thus, items which appear a considerable distance away from the central line can be considered areas of concern for respondents.

For example, the range of books in the library is considered highly important, and yet just two thirds of respondents were satisfied. The range of journals and electronic information services is also an area of concern for some respondents. This is quite typical of library services surveys in general.

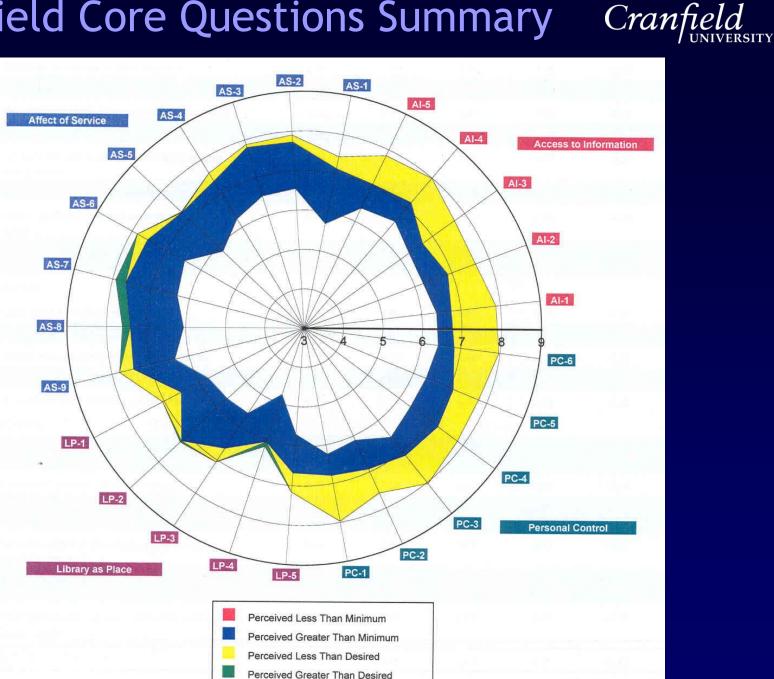
Other features considered more important than satisfactory included the library catalogue and interlibrary loans.



Comparisons of Satisfaction Against Importance

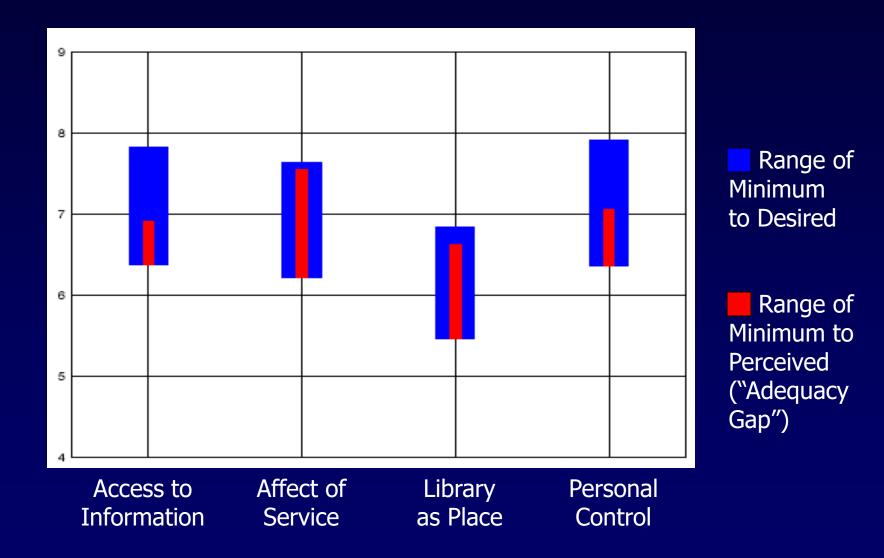
	Difference between importance and satisfaction levels			
	Overall	Cranfield	RMCS	Silsoe
Range of books	26.2	28.3	22.6	28.9
Range of print and electronic journals	16.4	17	15.1	17.7
Course books and essential texts	21.7	24	18.9	23
Library web pages	-0.9	3.1	-7.3	2.3
Printing	-3.4	1.1	-8.7	-3.9
Study facilities	1.3	7.6	-1.1	-8.8
Provision of computers/PCs	2.6	6.5	-3.6	6.1
Library catalogue (WebCat)	10.2	13.1	5.4	13.3
Range of electronic information services	9.5	9.4	8.7	10.9
Opening hours	0.7	0.3	-0.7	4.4
Library environment (noise/heating/ambience, etc)	0.3	3.8	-3.8	0
Helpfulness of the library staff	-0.9	-1	-0.8	-1.3
Competence of the library staff	1.6	0.8	3.5	-0.8
Inter-library loans	8.3	6.1	8.4	12.6
Library training or awareness session	4.4	7.9	-4.4	15.9
Library report section (Cranfield and RMCS only)	0	2.6	-3.3	-

Cranfield Core Questions Summary



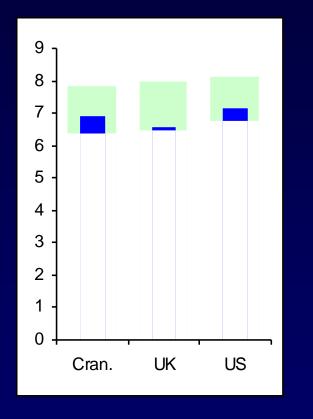


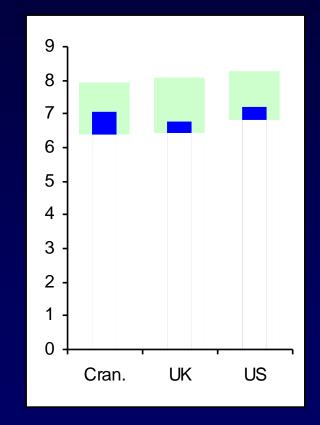
Cranfield University Dimensions Summary 2003





Access to Information Personal Control







Focus on controlled development

- Systematic and agreed improvement methods & tools
- Measurement (including direction)
- Project management as rational management of change
- A plan, but not at the expense of creativity and 'just doing it'



Focus on total involvement of staff

- Vision
 - Models, maps, frameworks
- Leadership & delegation
 - Choice of styles
 - Competence & Commitment
- Staff development
 - Proactive towards 'future' state rather than reactive cycle



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