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Communicating the Value of your Library
23 October 2009

ROI and the university library: *Preliminary outcomes of the HKU study**

Peter Sidorko



* Falsely advertised as “Hong Kong University ROI study outcomes”

Key trends for a 21st Century Academic Library*

- Customization and personalization
- Need to market content and services and to raise their awareness and availability
- Demand for self-service
- Constant change, and innovative and hybrid approaches and structures
- Successful graduates and **productive faculty as key measures of success**
- Expanding social environments
- Culture of **assessment and accountability**
- Collaboration at all levels
- Delivering content, services anywhere, anytime

* Neal, J. & Harboe-Ree, C. (2009) *The University of Hong Kong External Review of the University Libraries* [Unpublished Manuscript].

Overview

- ROI? Value in libraries?
- Earlier studies
- Carol Tenopir (University of Tennessee, Knoxville) & Elsevier studies
 - Phase 1
 - Phase 2
- What next?



Measuring...

- Quantity: JULAC statistics etc
- Quality: Surveys, LibQUAL+, etc
- Value: Usage analysis eg cost per download etc
- Impact ??

RoI?

- Return on investment
- Income as a proportion of the amount invested in an asset
- Normally measured in monetary terms
- For every \$ invested in the library, how many (if any) \$s are generated for the university?
- Only a single measure of library “value”

Some caveats and limitations

- ROI simply doesn't measure the *indirect benefits* libraries provide
 - Social
 - Cultural
 - Health
 - Etc
- Cannot be readily used for peer-comparison because of the context in which the library resides
- Academic libraries must demonstrate their contribution (value) to the mission of the university.

Remember Bangor?



7 days | Business | Business |

News > Technology

Bangor librarians face internet threat



AccessMyLibrary provides **FRI**
top publications available through

Polly Curtis, education correspondent
guardian.co.uk, Wednesday 16 February 2005
[Article history](#)

arkets > Information World Review articles >

**calls in Cilip to help
red Institute of Librarians
nals)(Brief Article)**

Date: June 14, 2005 | [Copyright](#)

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Bangor wa resolution Bangor)(B

Information World F

Bangor University is proposing to sack eight of its 12 librarians because students can find the information they need on the internet.

Bangor, which is part of the University of Wales, has become the focus of a national campaign to save the "Bangor eight" as unions fear the cuts could be replicated in university libraries elsewhere.

Research online. Academic journals & books at Questia Online Library.

[www.Questia.com/Journals](#)

[The World Digital Library](#)

Free online access to cultural materials from libraries worldwide

[www.america.gov](#)

Subject librarians choosing voluntary redundancy app
(UWB) to achieve its proposed [pounds sterling]300,000

University Wales Bangor (UWB) has called on Cilip to help with the restructuring of its library service. In March, IWR reported that a major restructuring of the library would see subject librarians bring to staff and students as "hard to justify" laid off in an effort by UWB to save [pounds sterling]300,000 from the library budget. Professor Merfyn Jones, Vice Chancellor of UWB, has written to Bob McKee, Cilip's chief exec, requesting Cilip's advice on the restructuring of the UWB library service. "Cilip has got a lot of experts in higher education and the University College & ...

Remember Bangor?

The *Consultation Document*, January 2005

“the support...from the qualified subject librarians is *hard to justify in value-for-money terms* at a time when the process of literature searches is substantially de-skilled by online bibliographical resources.”

J Wright, *From adversity comes strength? Raising a new profile for the library at the University of Wales, Bangor*
<http://www.library.nuigalway.ie/assets/inuls2007/johnwright-fri0945.ppt>

The Bangor survival solution

1. *Demonstrating Value*
2. Perception and Aesthetics
3. Collaboration
4. Innovation

October 7, 2009



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Libraries of the Future

September 24, 2009

NEW YORK CITY — The university library of the future will be sparsely staffed, highly decentralized, and have a physical plant consisting of little more than special collections and study areas.

That's what Daniel Greenstein, vice provost for academic planning and programs at the University of California System, told a room full of university librarians Wednesday at Baruch College of City University of New York, where the higher education technology group [Ithaka](#) held a meeting to discuss "sustainable scholarship."

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FREE Daily News Alerts

"We're already starting to see a move on the part of university libraries... to outsource virtually all the services [they have] developed and maintained over the years," Greenstein said. Now, with universities everywhere still ailing from last year's economic meltdown, administrators are more likely than ever to explore the dramatic restructuring of library operations.

Within the decade, he said, groups of universities will have shared print and digital repositories where they store books they no longer care to manage. "There are national discussions about how and to what extent we can begin to collaborate institutionally to share the cost of storing and managing books," he said. "That trend should keep going as capital funding is scarce, as space constraints are severe, especially on urban campuses — and, frankly, as funding needs to flow into other aspects of the academic program."

Under such a system, individual university libraries would no longer have to curate their own archives in order to ensure the long-term viability of old texts, Greenstein said. "What is the proportion of a library

And this...

The university library of the future will be sparsely staffed, highly decentralized, and have a physical plant consisting of little more than special collections and study areas...

\$\$\$

- with universities everywhere still ailing from last year's economic meltdown, administrators are more likely than ever to explore the dramatic restructuring of library operations
- “...and, frankly, funding needs to flow into other aspects of the academic program.”
 - Attributed to Daniel Greenstein, vice provost for academic planning and programs at the University of California System, Libraries of the Future, Inside Higher Ed, September 24, 2009
<http://www.insidehighered.com/news/2009/09/24/libraries>

Other studies



- U.S. Public Libraries approach to demonstrating “value”
- Several methodologies adopted, with differing parameters
- Many qualitative in nature
- Those providing a dollar ROI usually fall in the \$3 to \$6 return for every \$1 spent

• Worth Their Weight

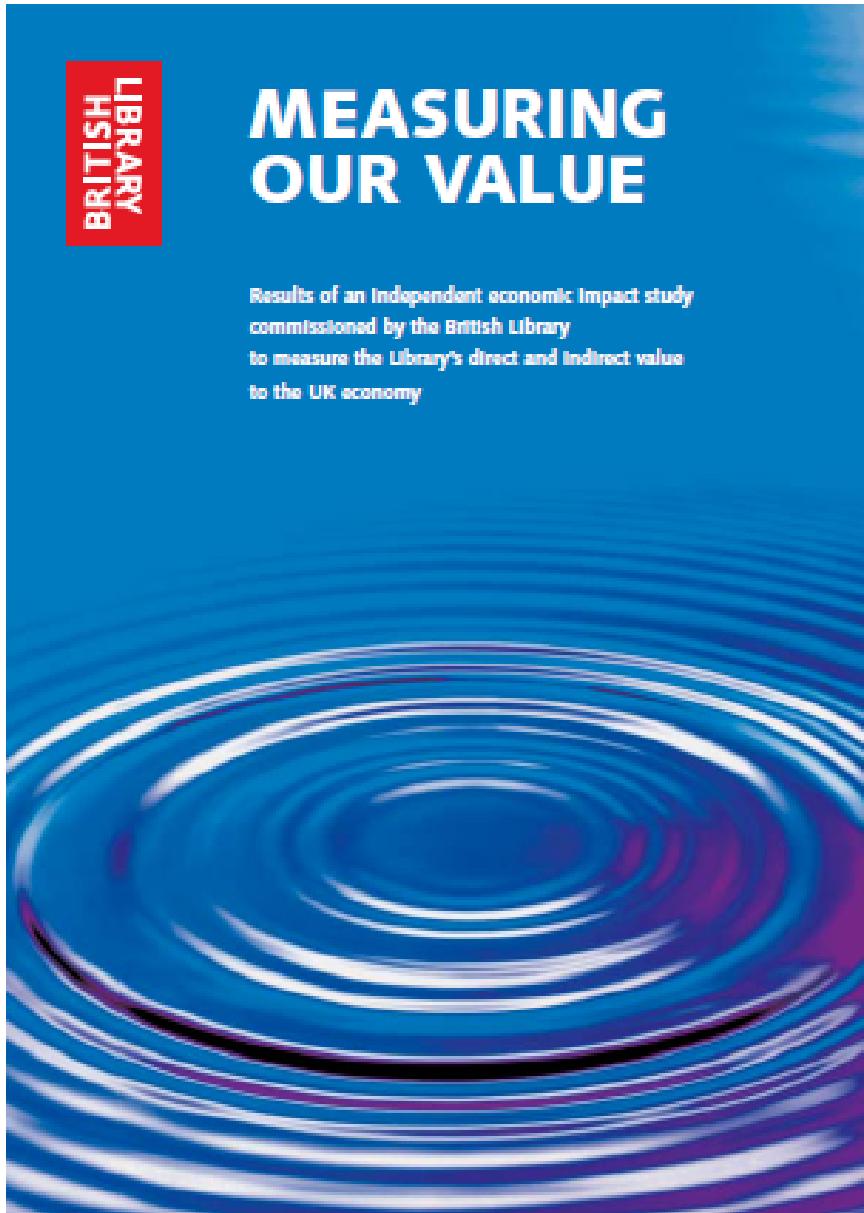
An Assessment of the Evolving Field of **Library Valuation**



alc
AMERICANS
FOR LIBRARIES
COUNCIL

Americans for Libraries Council

- Technique supported by the Nobel Prize winning economists Kenneth Arrow and Robert Solow
- A quantitative methodology used by UK Government, the World Bank and the OECD
- *Contingent Valuation* method, asking \$ questions
- For every £ 1 of public funding the British Library receives annually, £ 4.40 is generated for the UK economy.
- If the British Library did not exist, the UK would lose £ 280m of economic value per annum.



<http://www.bl.uk/pdf/measuring.pdf>

Carol Tenopir/Elsevier Studies

Study in 3 Phases

- Phase 1: ROI in grants, case study at University of Illinois, Urbana-Champaign (completed 2008)
- Phase 2: ROI in grants, expanded to 8 countries (in progress now)
- Phase 3: ROI for grants/research, teaching, student engagement (proposal pending)

Phase 1

The image shows the front cover of a white paper. At the top right, it says "white paper 1". Below that is the Elsevier logo, which includes a tree icon and the word "ELSEVIER". To the right of the logo is the title "Library Connect" with the subtitle "Partnering with the Library Community". The main title of the paper is "University investment in the library: What's the return? A case study at the University of Illinois at Urbana-Champaign". Below the title, the author is listed as "Judy Luther" and "President, Informed Strategies". At the bottom left, there is a dark bar with the year "2008" in white. At the very bottom, there is some small text about the Library Connect Editorial Office in San Diego.

white paper 1

 **Library Connect**
Partnering with the Library Community

**University investment in the library:
What's the return?
A case study at the University of Illinois
at Urbana-Champaign**

Judy Luther
President, Informed Strategies

2008

Library Connect Editorial Office
ELSEVIER
525 B Street, Suite 1900
San Diego, CA 92101, USA
Phone: +1.619.819.6379
libraryconnect@elsevier.com

- Changing metrics: from inputs and activity to outputs and productivity measures
- “for each dollar invested in the library, the university received *x dollars in return.*”



Goal: to demonstrate that library collections contribute to income-generating activities

- Quantify a return on university's investments in its library
- Focus on library's role in **externally funded research process**
- *Not* trying to claim an allocation back to library
- *Not* a budget argument
- *Not* a cost/time savings exercise
- *Not* creating a predictive model

Phase 1: The hypothesis

- Library's contribution to revenue-generating activities of faculty by examining the role of library-sourced citations in **grant applications**.
- The model for the study is that the library's investment in materials **increases researchers' productivity**.
- This **increase in productivity produces a measurable increase in grant receipts due to increased citations**, as well as recruitment and retention of productive faculty.

Phase 1: University of Illinois

- The study found that for every \$1 invested in the library, \$4.38 in grant income is generated for the university.

ROI Model for UIUC*

78.14% faculty w/ grants using citations

X

50.79% grant award success rate using citations from library

X

\$63,923 avg. grant income

=

\$25,369 avg. grant income generated using citations from library

X

6232 grants expended

÷

\$36,102,613 library budget

=

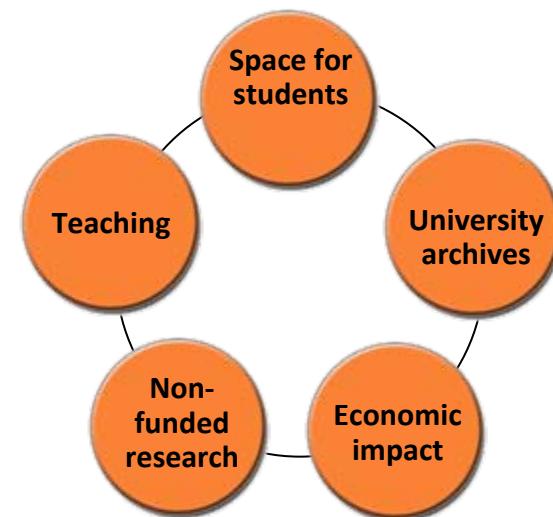
\$4.38 grant income for each \$1.00 invested in library (ROI Value)

* Kaufman, P (2008) *University Investments In the Library: What's the Payback?*
<http://www.ideals.uiuc.edu/handle/2142/3587>



An Economist's Review*

- **"Overall the model is valid"*** * Dr. Bruce Kingma, Associate Provost, Syracuse University
 - Worthwhile to replicate this model at other universities
 - Worthwhile to measure the complete system of inputs—library resources, faculty, staff, students—and determine the influence of each on the system
- Benefit of the library is more than the impact on research grants

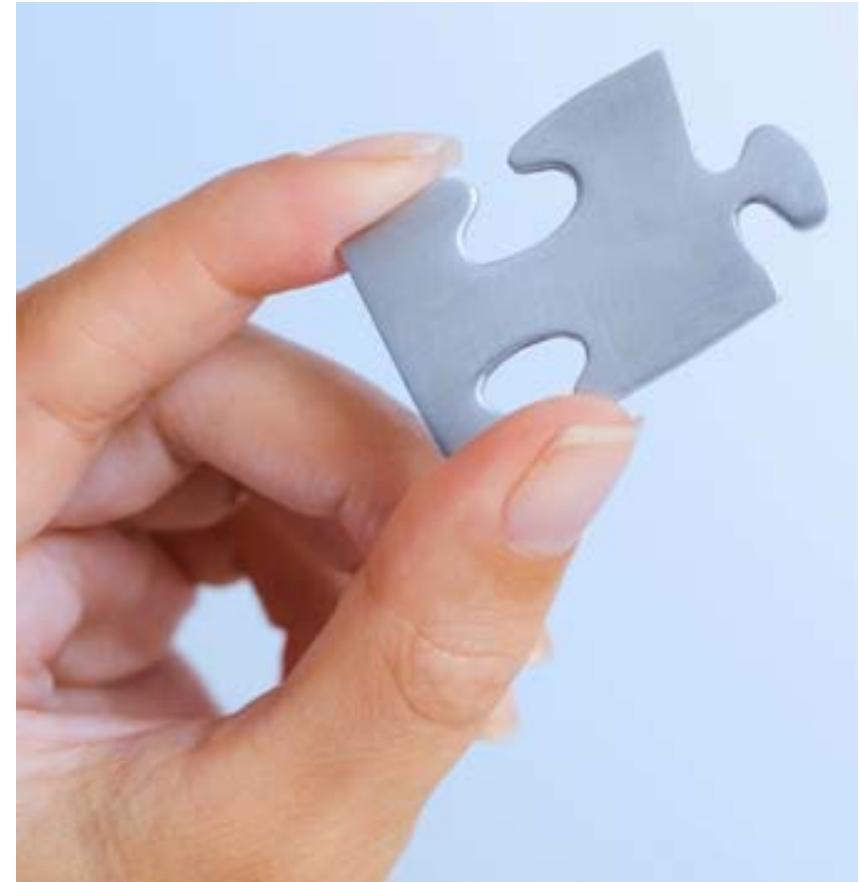


* Kaufman, P (2008) *University Investments In the Library: What's the Payback?*
<http://www.ideals.uiuc.edu/handle/2142/3587>

- In addition, the study sought to confirm the benefits of using electronic resources and the resulting impact on productivity over a 10-year period by examining:
 - Budget shift from print to electronic resources
 - Changes in intellectual output in the form of publications
 - Changes in grant success rate
 - Relationship between these trends

Limitations

- “the context for this ROI model is limited to grant income and does not address the value of resources to faculty in conducting their research or teaching”
(Luther, p.4)





Phase 2: Institutions



Phase 2 participants

- The University of Adelaide, Australia;
- University of Ottawa, Canada;
- *University of Hong Kong*;
- Waseda University, Japan;
- KAIST, Korea Advanced Institute of Science and Technology;
- University of Pretoria, South Africa;
- CSIC, Spanish National Research Council; and
- University of Tennessee, USA.

Some issues

- Differences in terminology (academic ranks, expenditures or income)
- Variations in data that universities keep and who keeps it over 10 years
- Reluctance to part with certain data
- Bureaucracy, bureaucrats
- Fiscal year, academic year, calendar year and differences in hemisphere
- Languages

Triangulated approach

- Faculty survey
- Data collection (10 year span)
- Interviews



Faculty Survey Questions

- How many proposals (with you as PI) submitted?
- How many grants funded (with you as PI)?
- Total monetary value of your grants?
- Importance of citations in proposals and reports?
- How many citations in proposals, reports, articles?
- What % of citations from the library e-collection?
- For each cited, how many others do you read?

Data collection

FACULTY DATA

- # Regular (tenure line) headcount faculty
- # Principal Investigators/Regular Researchers

GRANT AWARDS & FUNDING

- # Grant proposals
- # Grants awarded
- Amt. of grant income expended (acquitted)
- Total # grants expended (acquitted)
- Amt. average size grant

LIBRARY EXPENDITURES

- Amt. total Library budget
- Amt. Library materials budget

FACULTY PRODUCTIVITY

- # articles published (institutional records, if available)
- # articles published (Scopus)
- # articles per PI/RR
- # articles per headcount faculty
- Total # grants expended (acquitted)
- # grants per PI/RR
- # grants per headcount faculty

Interviews

- Dean of Science
- Dean of Engineering
- Deputy Vice Chancellor

Phase 2: Aggregated Survey Results

- 71%-98% (over 90% in 5) state it is “important”, “very important” or “essential” to cite articles or books in their grant proposals
- Average # of citations in grant proposals: Range of 20-46 (articles or books)
- % of citations from e-collections varies from 50-99%
- For every article/book cited, 18-40 more are read

Phase 2: Aggregated Survey Results (cont.)

- Respondents report they spend at least 3.5 hours per week finding and accessing articles, and at least 9.8 hours reading articles.

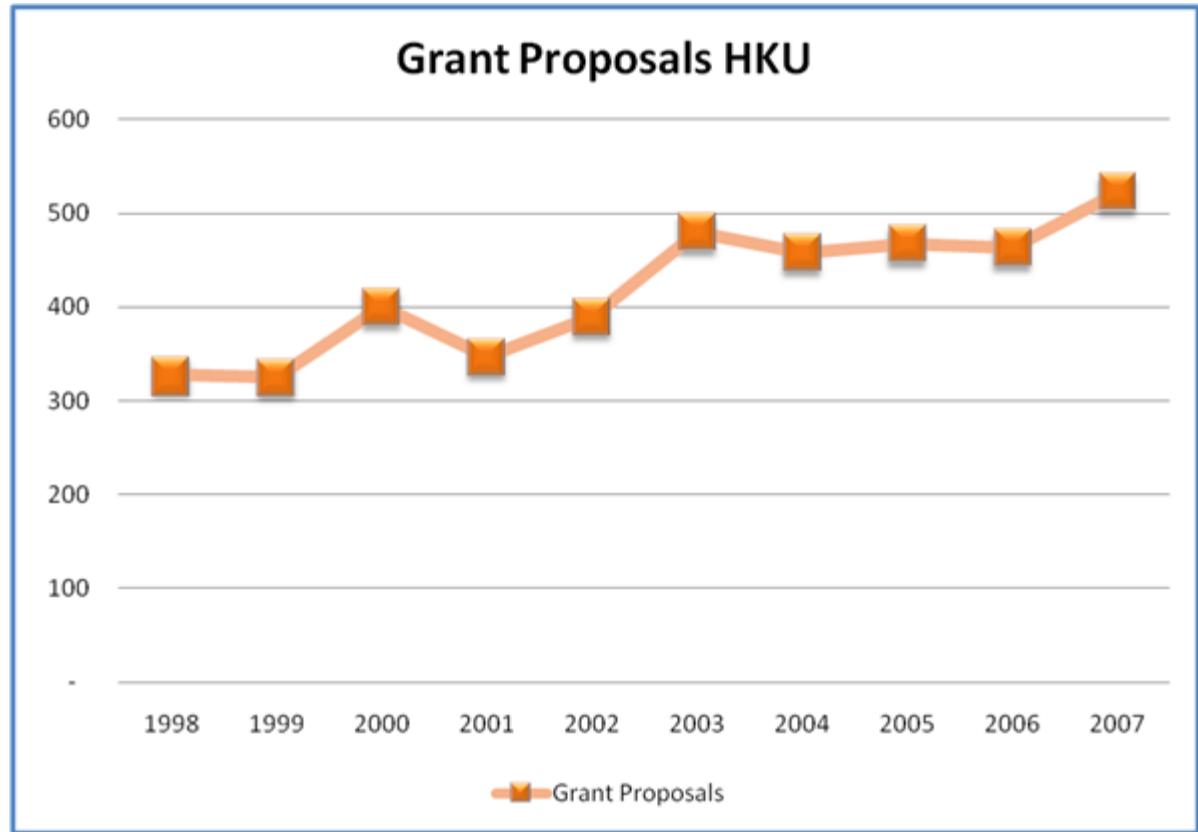
What we can show so far...

- For every monetary unit invested in academic libraries, the parent institutions receive a return on investment of **up to 15.54 for every unit of currency**
- 5 of the 8 countries, the ROI for grants is more than 1:1
- ROI for grants varies according to the goals of the institution:
 - research-focused vs. teaching-focused;
 - emphasis on science/technology/medicine vs. emphasis on social sciences and humanities; and,
 - the availability of external funding sources.

What we can show so far...

- Academic library collections help faculty be productive and successful
- Libraries help generate grants income
- E-collections are valued by faculty and bring return on investment to the university, no matter where in the world

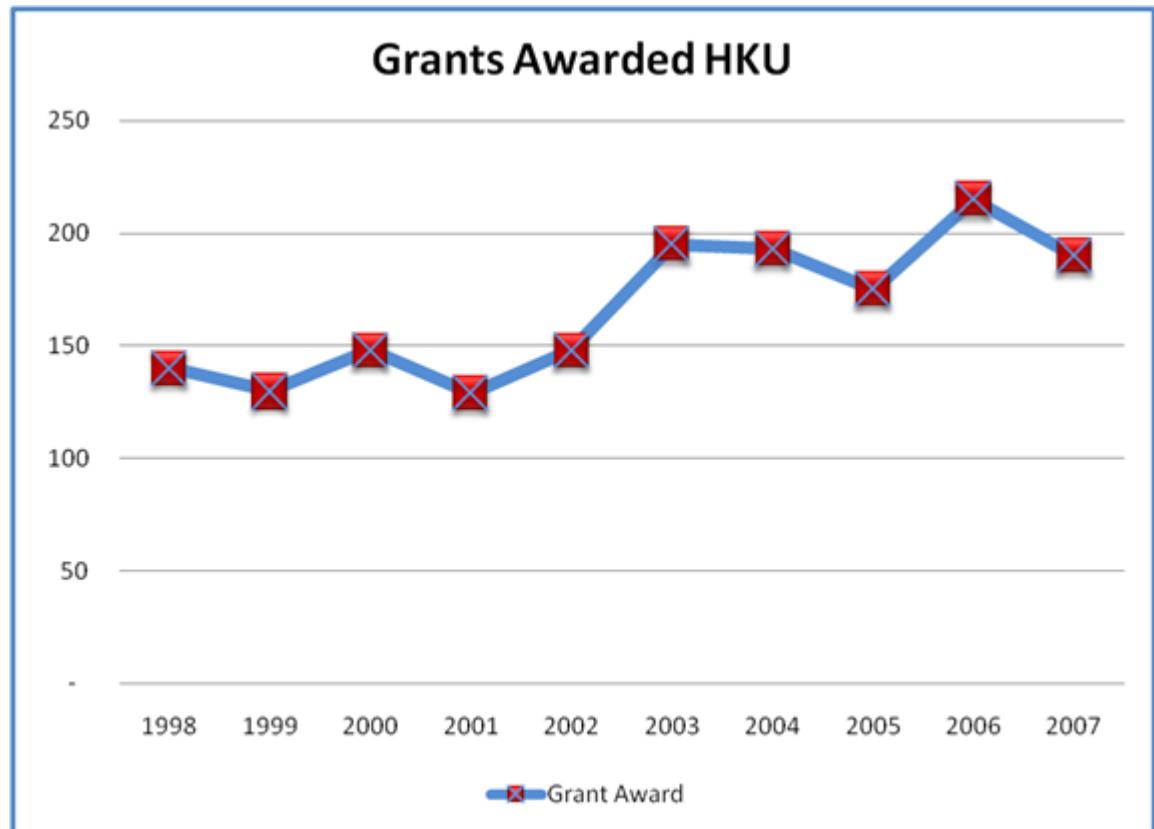
**Grant proposals up
59% over 10 years**



71-98% state it is “important” to
“essential” to cite articles or books in
their grant proposals



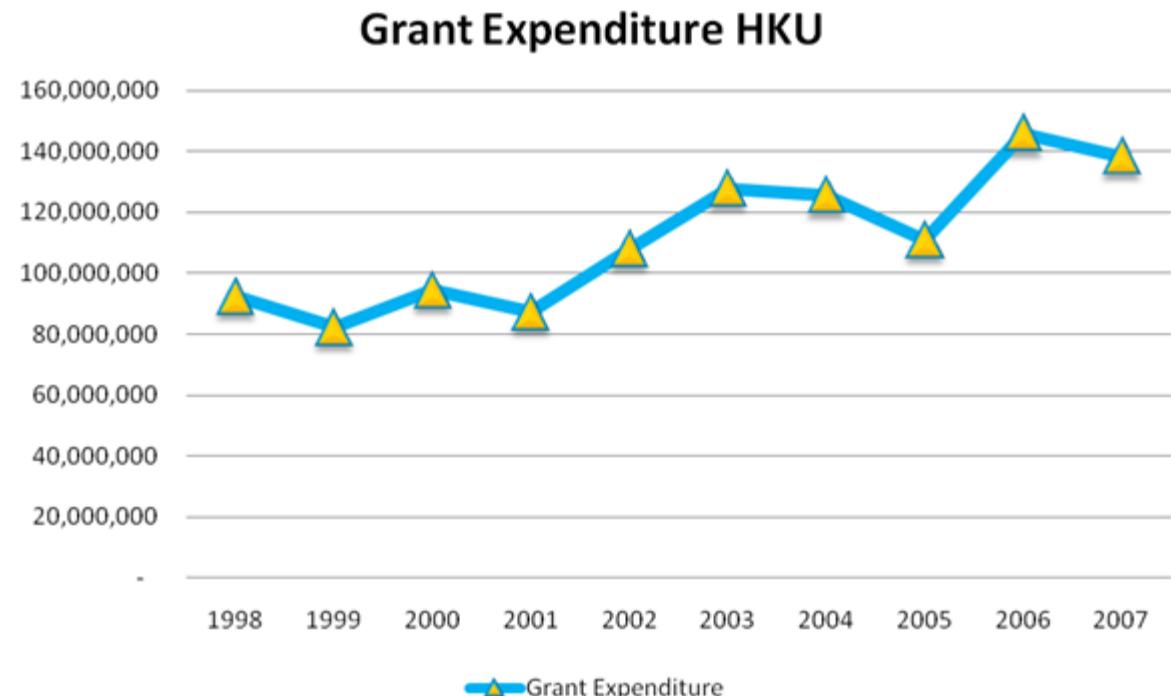
Grants awarded up
36% over 10 years



71-98% state it is “important” to
“essential” to cite articles or books in
their grant proposals



**Grant expenditure up
50% over 10 years**



71-98% state it is “important” to
“essential” to cite articles or books in
their grant proposals



University administrators' long-term goals

- attracting and retaining productive faculty,
- fostering innovative research,
- facilitating interdisciplinary collaboration, and
- raising the university's prestige.
- Comments and data from the faculty surveys indicate that, in addition to helping generate grant income, the library also serves these administrator goals

Lessons confirmed in Phase 2

- E-resources help faculty be more efficient and productive and increase their interdisciplinary and international perspectives
- Administrators rely on the library to help recruit, evaluate, and retain productive faculty, undergraduate, and post-graduate students, and to bolster the institutional international reputation
- The vast majority of faculty use library e-resources to help prepare their grant proposals, articles, and reports and they consider these resources an important part of the grants process.

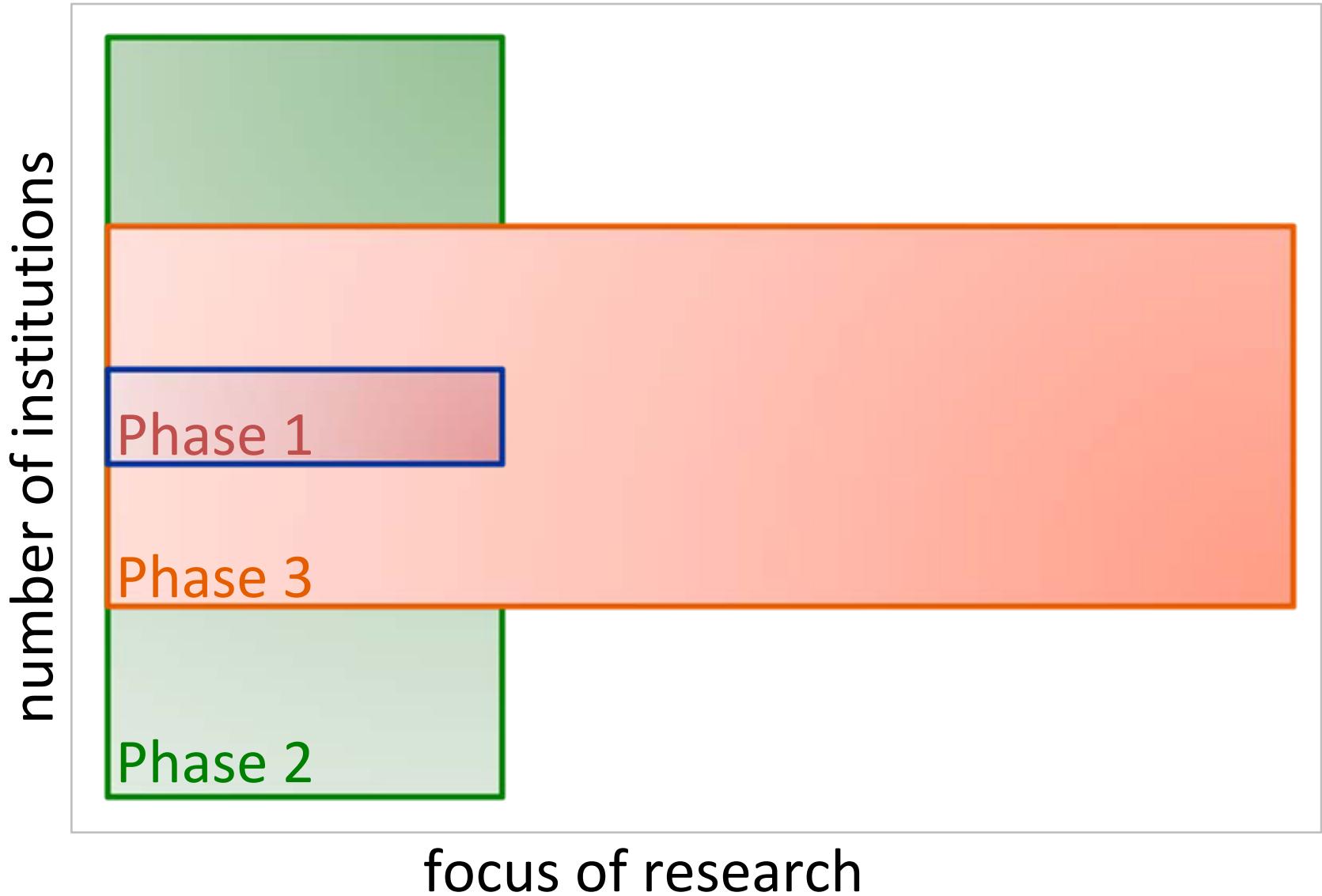
Lessons from Phase 2

- **Differences between individual institutions and countries need to be taken into account**
- ROI in the grants process is ONLY one important and convenient way to quantify the value of the academic library **but it underestimates the total value of the library**
- This is a beginning step to an important way of thinking about academic libraries and their role in the institutions they serve.

Phase 3

- US\$1million grant from Institute of Museum and Library Services
- Will examine how to quantify other ways in which the library creates value through its contributions to **teaching, learning, student engagement, research and the university's overall stature**

Phases expand



Thanks for listening.

Watch this space ...

?????

... for further updates