



Online Information & Education Conference 2015

7 – 8 May 2015

At Suan Dusit Rajabhat University

Supporting research: Academic library opportunities and challenges

Peter E Sidorko

The University of Hong Kong



The University of Hong Kong (HKU)





The University



- Evolved from the Hong Kong College of Medicine, founded in 1887
- Founded 1911, oldest in HK
- Multidisciplinary/comprehensive - undergraduate & postgraduate
- 15,560 UG students; 11,880 PG students
- 7,065 academic staff; 3,705 admin and support staff
- Student learning: Research and innovation: Knowledge exchange
- High in Asian and World University Rankings.





HKU Rankings



	World		Asia	
	Times	QS	Times	QS
2007	18	n/a	1	n/a
2008	26	26	3	1
2009	24	24	2	1
2010	21	23	1	2
2011	34	22	2	3
2012	35	23	3	1
2013	43	26	3	2
2014	43	28	3	2



Research Performance

Indicator	Performance
Research Grants Council (RGC) Areas of Excellence (AoE) Awards	Highest cumulative number of awards and largest amount of any UGC-funded institution
Research Grants Council (RGC) Theme-based Research Scheme (TRS)	Highest cumulative number of awards and largest amount of any UGC-funded institution
Research Grants Council (RGC) General Research Fund (GRF) Awards	Highest number of awards of any UGC-funded institution
Funding secured in RGC GRF Awards Scheme	Largest amount of any UGC-funded institution for 13 successive years
Croucher Foundation Senior Research Fellowships	Largest number of fellowships of any UGC-funded institution
Chinese Academy of Engineering (CAE) Academicians	Joint largest number of Academicians of any UGC-funded institution
Chinese Academy of Sciences (CAS) Academicians	Largest number of Academicians of any UGC-funded institution



Research Performance

Indicator	Performance
Refereed publications	Highest number of any UGC-funded institution
Refereed publications per academic and research staff member	Highest number of any UGC-funded institution
Total number of citations of HKU papers in journals tracked by Thomson Reuters	Highest number of any Hong Kong institution tracked by Thomson Reuters
Total number of publications published in journals tracked by Thomson Reuters	Highest number of any Hong Kong institution tracked by Thomson Reuters
115 HKU professoriate staff have been ranked by Thomson Reuters as being among the world's top 1% of scientists , based on the number of citations recorded for their publications (June 2014)	



Research Outputs in 2012 / 2013

二零一二 / 二零一三年度研究成果

Broad Disciplinary Areas 廣泛學科領域	All Research Output 總研究成果	Refereed Research Output 已審定研究成果	Prizes and Awards 獎項
Biology and Medicine 生物及醫學	3,181	2,702	122
Engineering 工程	1,149	912	49
Humanities, Social Sciences and Business Studies 人文學科、社會科學及商學	2,455	1,724	77
Physical Sciences 自然科學	555	356	18
All 總計	7,340	5,694	265

 The University of Hong Kong, (2014), *Quick Stats*,

<http://www.cpaohku.hk/qstats/>
Research Projects in 2012 / 2013 (On-going and New)

二零一二 / 二零一三年度研究計劃 (續辦及新辦)

Broad Disciplinary Areas 廣泛學科領域	Research Grants Projects 研究資助計劃		Research Contract Projects 研究合同計劃		All 總計	
	No. of Projects 研究計劃數目	Funding (in HK\$M) 百萬港元 資助金額	No. of Projects 研究計劃數目	Funding (in HK\$M) 百萬港元 資助金額	No. of Projects 研究計劃數目	Funding (in HK\$M) 百萬港元 資助金額
Biology and Medicine 生物及醫學	3,091	4,634.6	312	617.5	3,403	5,252.2
Engineering 工程	703	523.4	77	41.8	780	565.2
Humanities, Social Sciences and Business Studies 人文學科、社會科學及商學	1,201	1,165.1	171	310.0	1,372	1,475.1
Physical Sciences 自然科學	420	620.2	39	36.7	459	656.9
All 總計	5,415	6,943.3	599	1,006.0	6,014	7,949.3

Research Trends



- Overwhelming growth in research output
 - Booming higher education sector
 - Competitiveness, rankings etc
 - Growth in research funding opportunities
- Multi and interdisciplinary research
- Greater accountability to funders (eg RAE)
- Transparency with output
 - Open access
 - Open re-usable data
- Emphasis on research for community needs
- Knowledge transfer and the role of the university
- Measures of “impact” beyond bibliometrics => Esteem
- Accurate and interconnected attribution => ORCID
- Technology
- Internationalisation of research
- The “rise” of China



Supporting research: Challenges



*The University of Hong Kong
Faculty Survey:
Report of Findings.*
Ithaka S+R, April 2015.



The University of Hong Kong Faculty
Survey:
Report of Findings



The Research Process



Research Pattern – old

shifted from



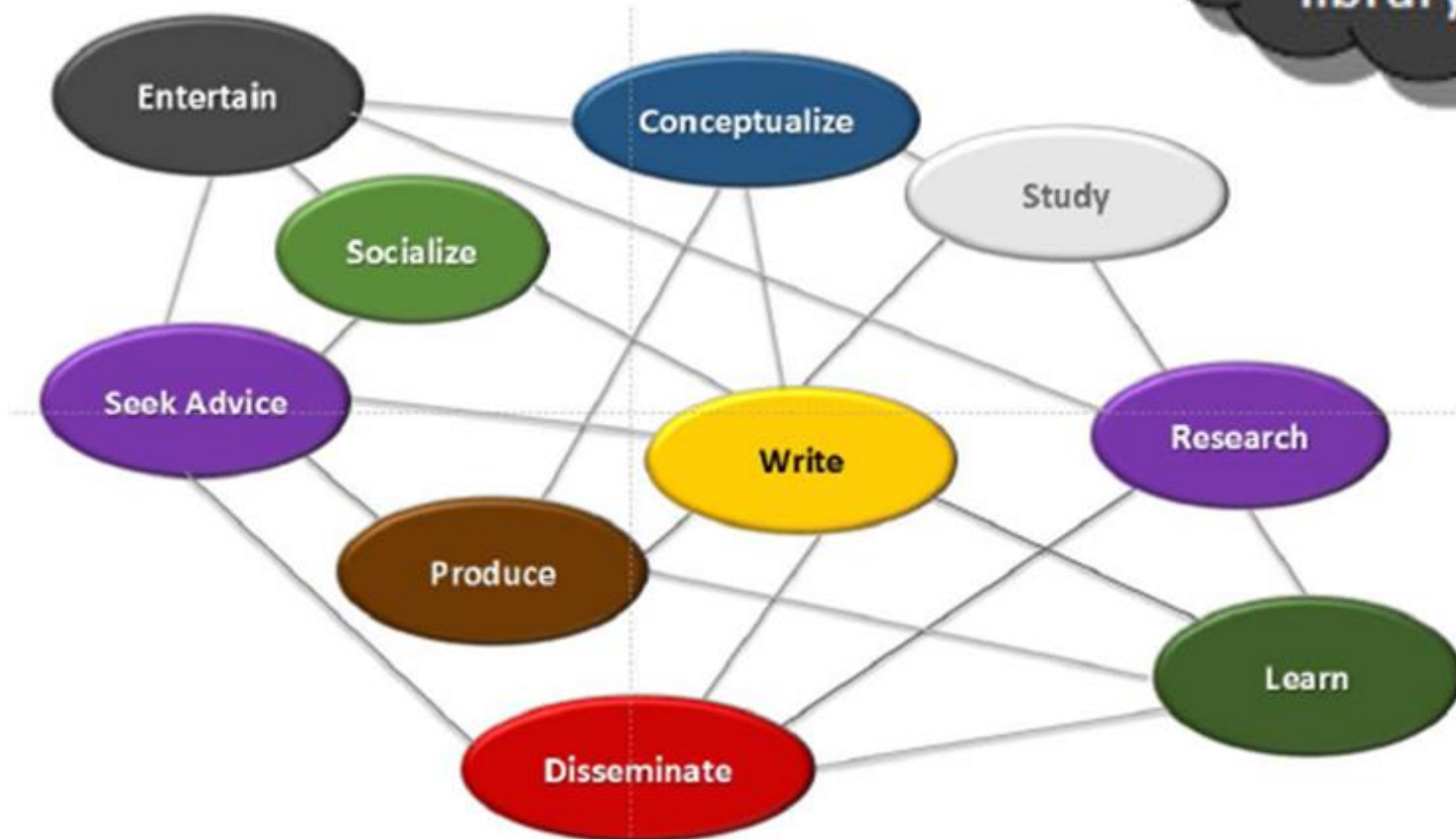
Adapted from Arnold Hirshon: *Understanding and Managing the Environment*,
The 13th University of Hong Kong Annual Library Leadership Institute
Leading the Next Generation Research Library Xiamen, 24-28 April 2015.



Research Pattern – new



shifted to



Adapted from: Arnold Hirshon, Understanding and Managing the Environment,
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Leading the Next Generation Research Library Xiamen, 24-28 April 2015.



current trends: content discovery *research patterns – from linear to synaptic*

shifted from

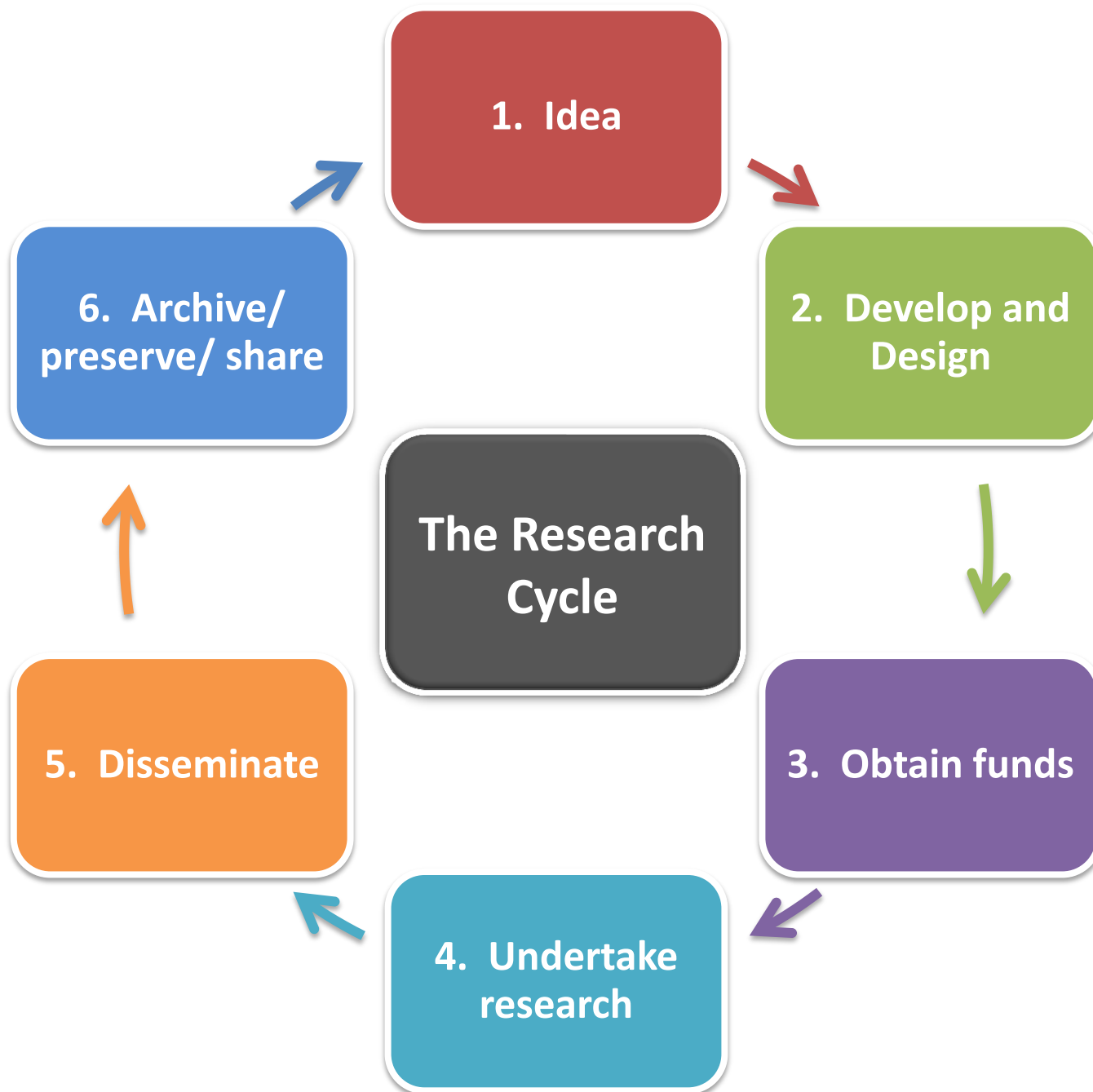


shifted to



Adapted from: Arnold Hirshon, Understanding and Managing the Environment,
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1. Idea



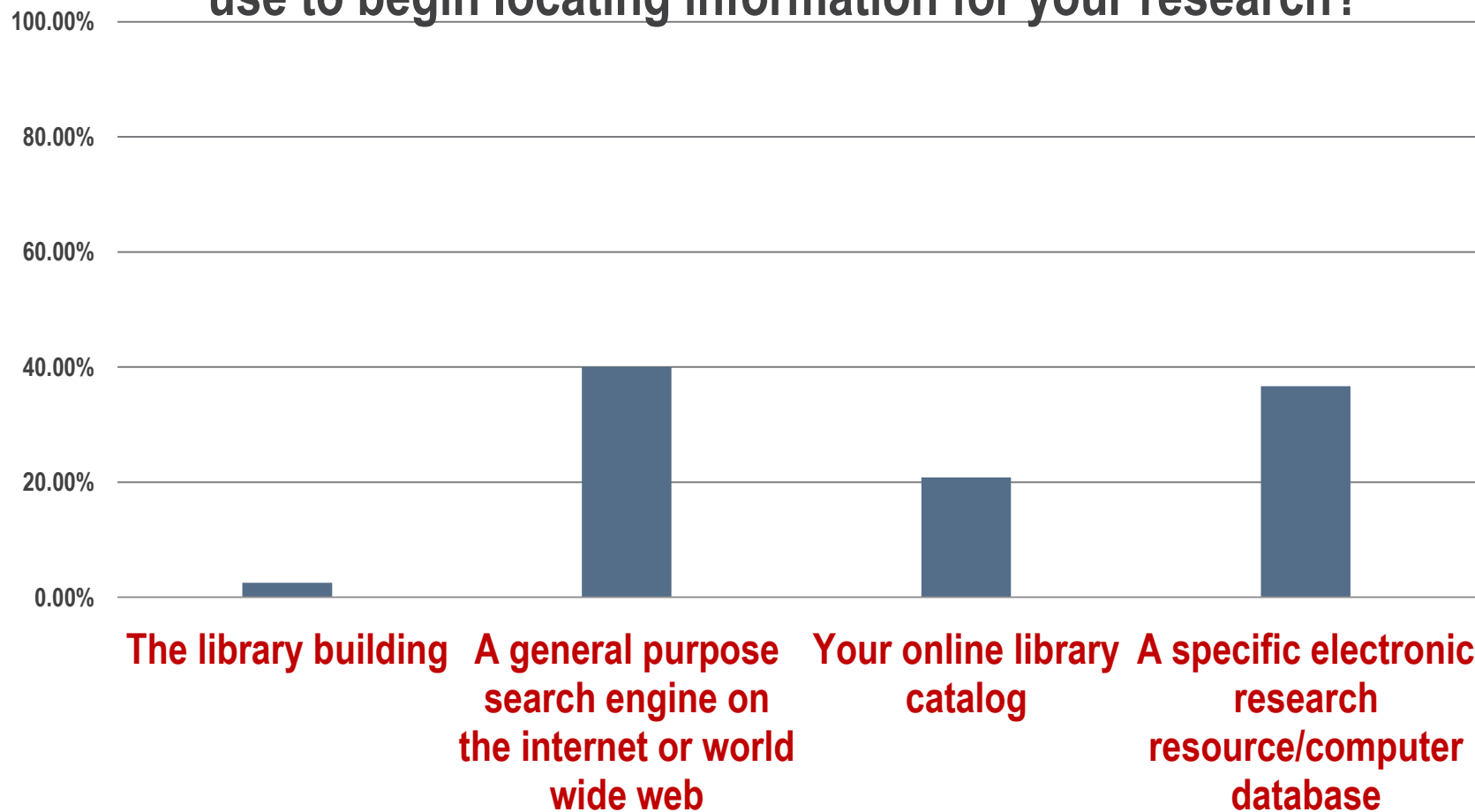
Key elements

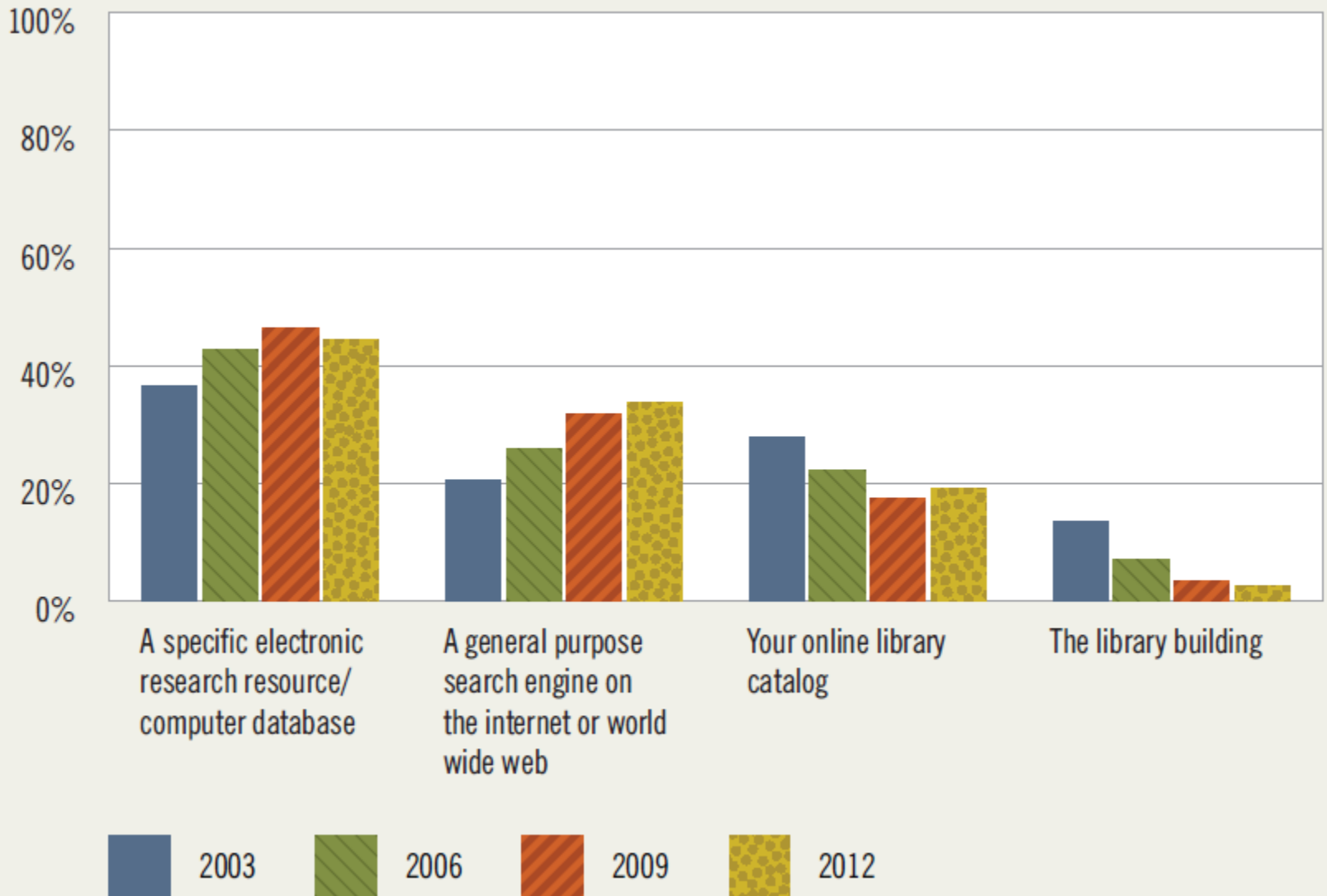
- Getting started
- Initial findings and readings





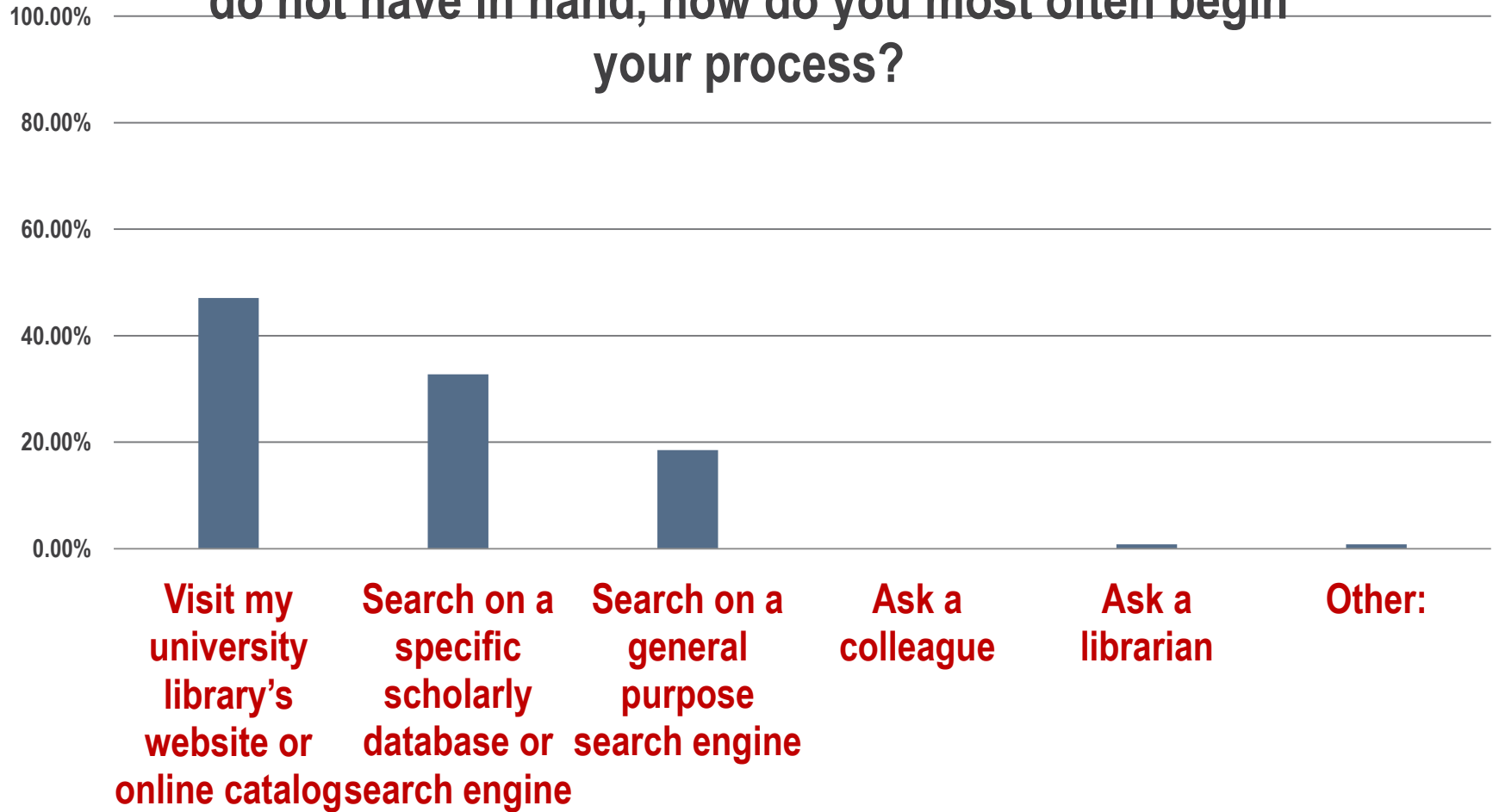
Typically, when you are conducting academic research, which of these four starting points do you use to begin locating information for your research?







When you try to locate a specific piece of secondary scholarly literature that you already know about but do not have in hand, how do you most often begin your process?



2. Develop and Design



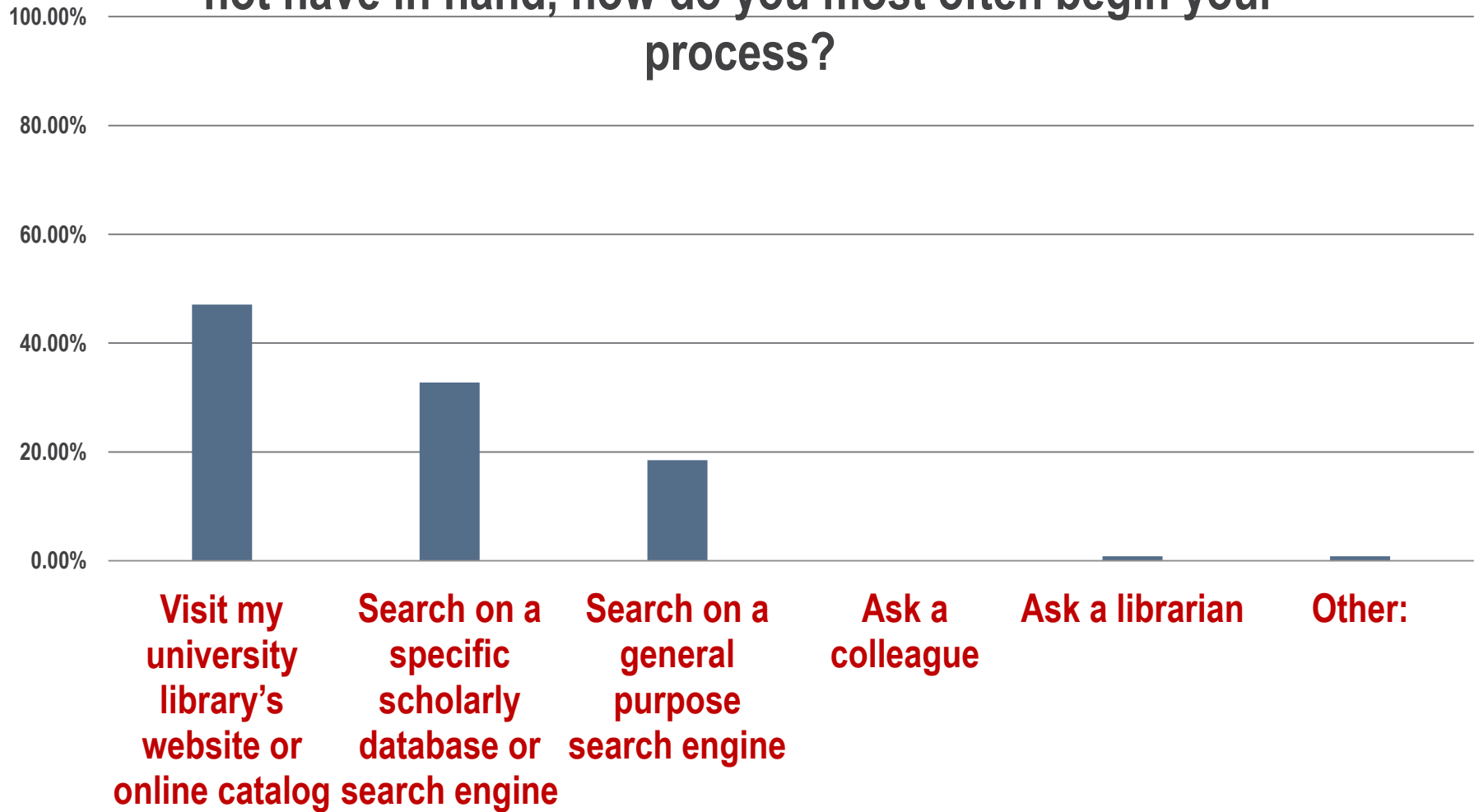
Key elements

- In-depth research consultations
- Expanded access to research collections
- Access beyond home collections
- Seeking potential collaborators



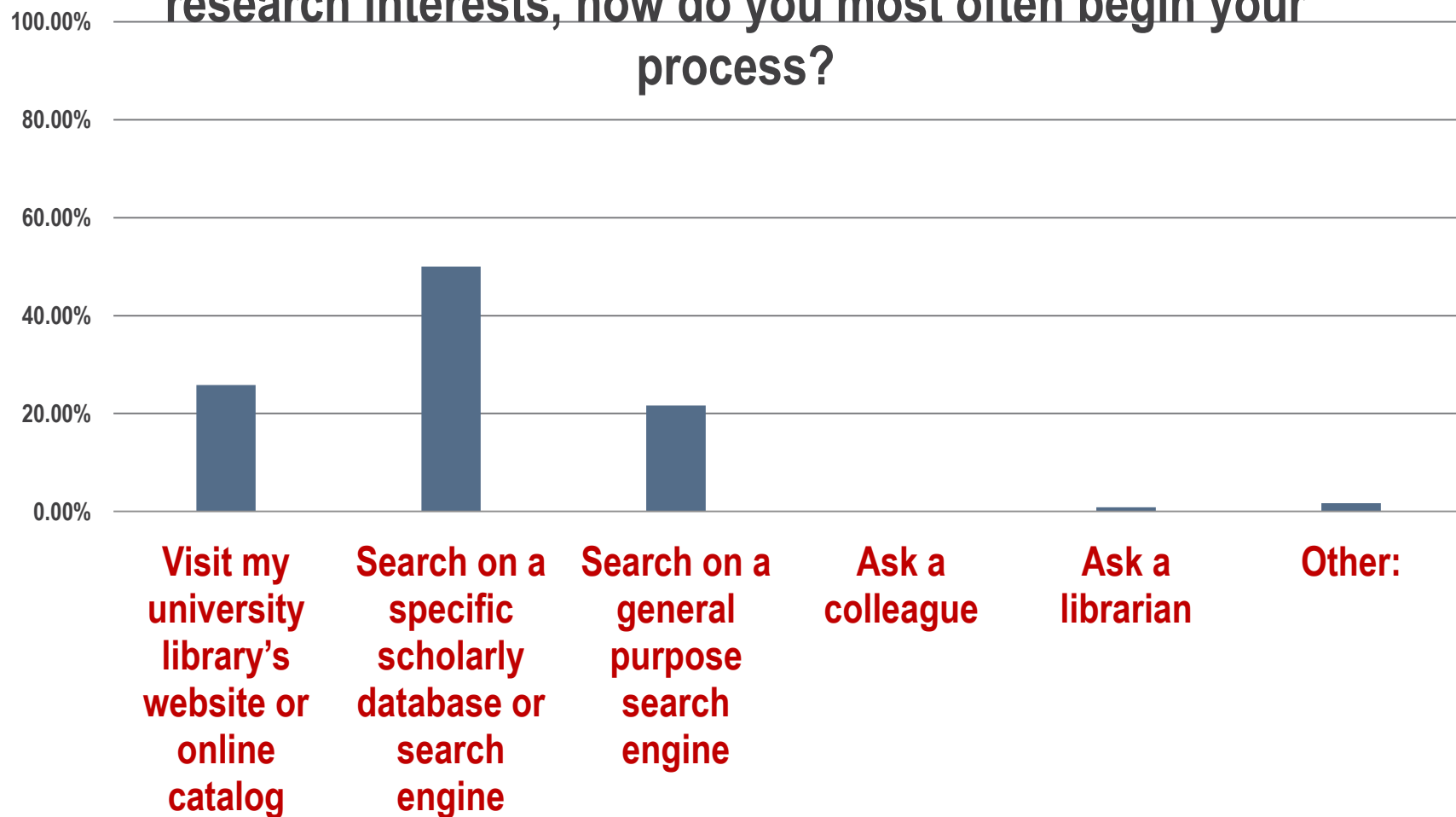


When you try to locate a specific piece of secondary scholarly literature that you already know about but do not have in hand, how do you most often begin your process?



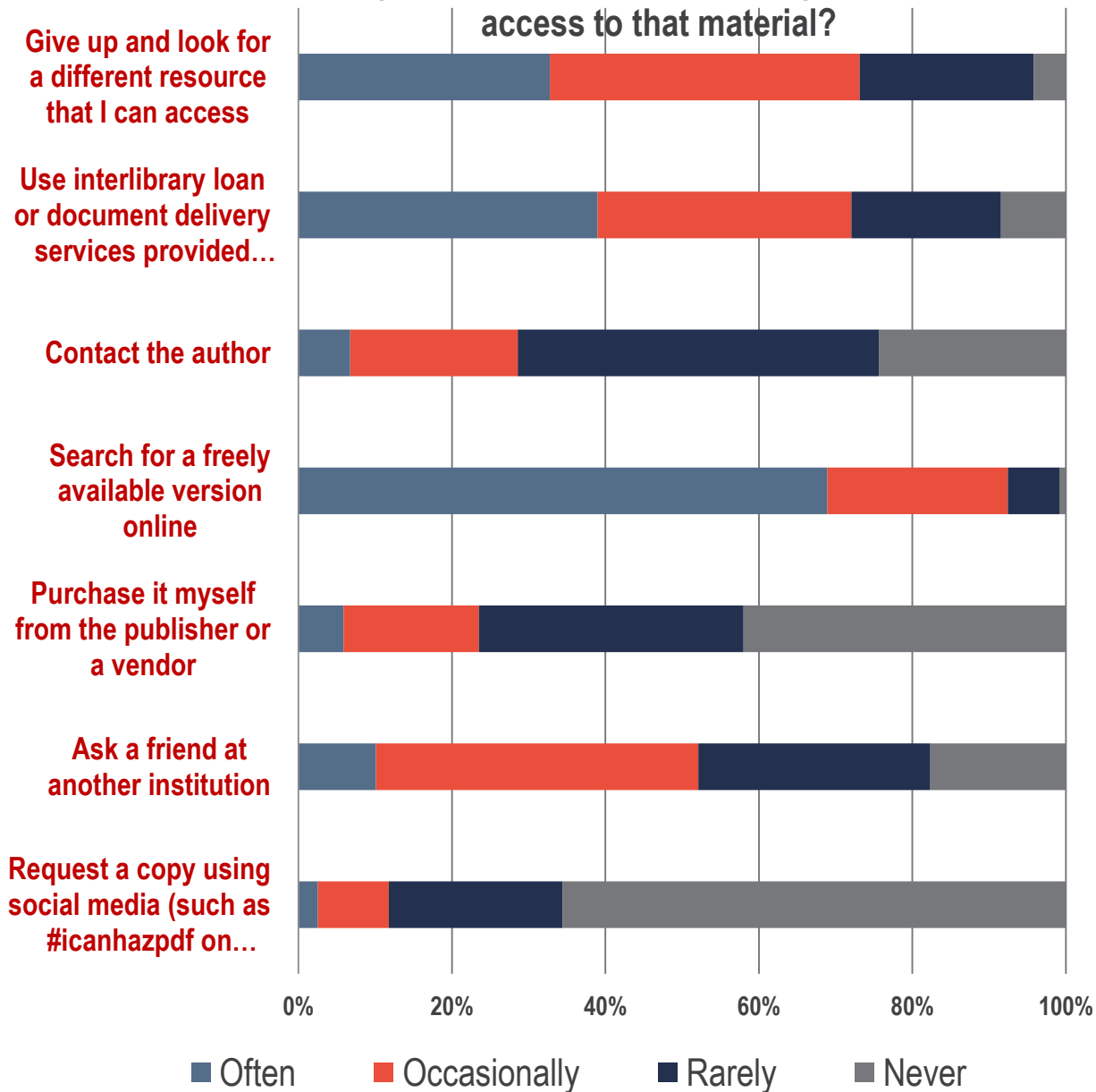


When you explore the scholarly literature to find new journal articles and monographs relevant to your research interests, how do you most often begin your process?





When you want a scholarly monograph or journal article that you do not have immediate access to through your university library's physical or digital collections, how often do you use each of the following methods to seek access to that material?





When you think about the journal articles and scholarly monographs that you routinely use, how important are each of the following sources?

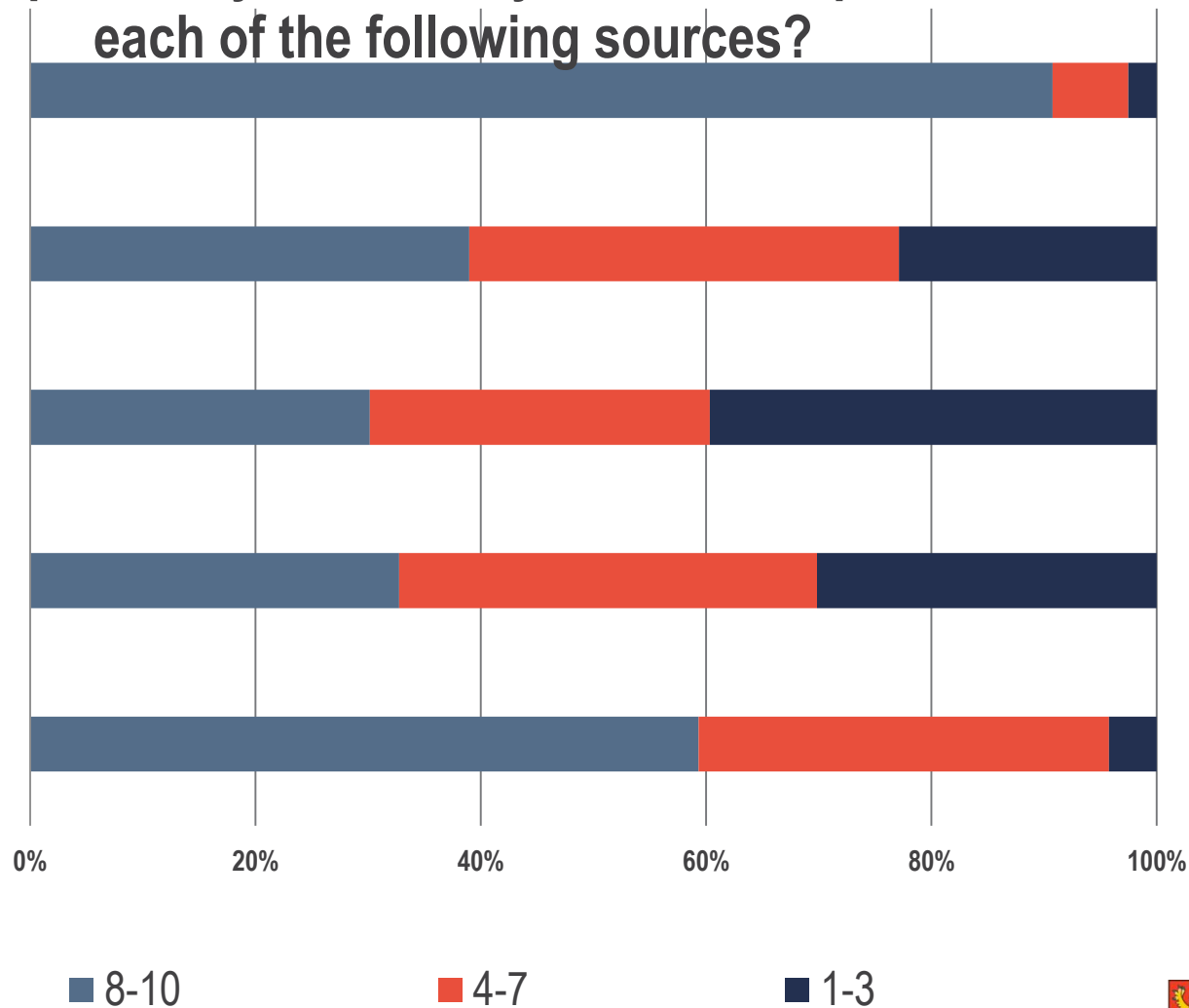
My university library's collections or subscriptions

My own personal collection or subscriptions

My academic department's collections or subscriptions

Collections or subscriptions of other institutions

Materials that are freely available online



2. Develop and Design

- Faculty and Postgraduate *Research Consultation* Service – focused skills development
- Help identify potential co-investigators/collaborators
- Citation management
- Expanded access to research collections
 - *Center for Research Libraries (CRL)*
 - *RapidILL*



OCLC No.	62890534
Title	Indian newspaper reports, c1868-1942, from London [microform]
Imprint	Marlborough : Adam Matthew Publications Ltd.,
Add Author	British Library
Description	microfilm reels ; 35 mm
Subject	British Library -- Archives India -- History -- British occupation, 1765-1947 India -- Social conditions -- 19th century -- Sources India -- Social conditions -- 20th century -- Sources
Contents	pt. 1. Bengal, 1874-1903 (27 reels) -- pt. 2. Ben reels) -- pt. 3. Punjab, Agra, Oudh, Rajputana a Provinces, c1868-1896 (29 reels) -- pt. 4. United 1937 (29 reels) -- pt. 5. Madras, 1876-1921 (32 Bombay, 1874-1898 (18 reels)
Summary	Consists of weekly typewritten abstracts taken f Indian newspapers, with some extracts. Transla translator. Each report is divided into the followi politics -- Home administration: Police. Working Education. Local self-government and municipa Questions affecting the land. Railways and com including canals and irrigation. General (includin topics) -- Legislative -- Native States -- Prospe te -- Miscellaneous

6,500 foreign newspapers
2,000 titles of US ethnic newspapers
7,000 Journals (Asia and SEA)
20,000 Foreign Doctoral Dissertations
500,000 Monographs (Mostly SA and SEA)
Microform of Reprint Sets and Archives
Area Studies including
Cooperative Africana Microform Project (CAMP)
Latin American Microform Project (LAMP)
Middle Eastern Microform Project (MEMP)
Slavic and Eastern European Microform Project (SEEMP)
South Asia Microform Project (SAMP)
Southeast Asia Microform Project (SEAM)
500,000 Foreign Govt Docs
US State Docs
Special Collections eg WWII Crimes Tribunals
etc

**Expanded
Research
Collections**

Current Members

API Dad

69 participants

Rapid Monthly Statistics

System Averages June-2014

Borrowing Requests	Percent of Requests Filled	Average Filled Turn Around Time (Hours)
--------------------	----------------------------	---

85,430

96%

11.69

SECAC
California

12 participants
23 participants
20 participants

requesting
on the
at requests for

, for RapidR:

(document supplier libraries)

er routing
outing awareness

ing requests use Rapid's powerful routing algorithm and this enhanced
will move requests within your geographical region whenever possible.



Expanded Research Collections

3. Obtain funds



3. Obtain funds

- Help to identify suitable funding sources
- Utilise library *resources* (and *librarian* expertise) to develop grant applications
- Assist with Data Management Plan (if a condition of grant allocation)
- Advise on Open Access (if a condition of grant allocation)
- Plagiarism check



Library RoI Grants Study (2010)

- 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

WHITE PAPER



LibraryConnect
Partnering with the Library Community

University Investment in the Library, Phase II: An International Study of the Library's Value to the Grants Process

Carol Tenopir

With Amy Love, Joseph Park, Lei Wu, Andrea Baer,
and Regina Mays
Center for Information and Communication Studies
University of Tennessee

Contributors

Bruce Kingma, Syracuse University
Donald W. King, University of Tennessee

2010

ELSEVIER
525 B Street, Suite 1800
San Diego, CA 92101, USA
Phone: +1.619.699.6283
libraryconnect@elsevier.com

4. Undertake research



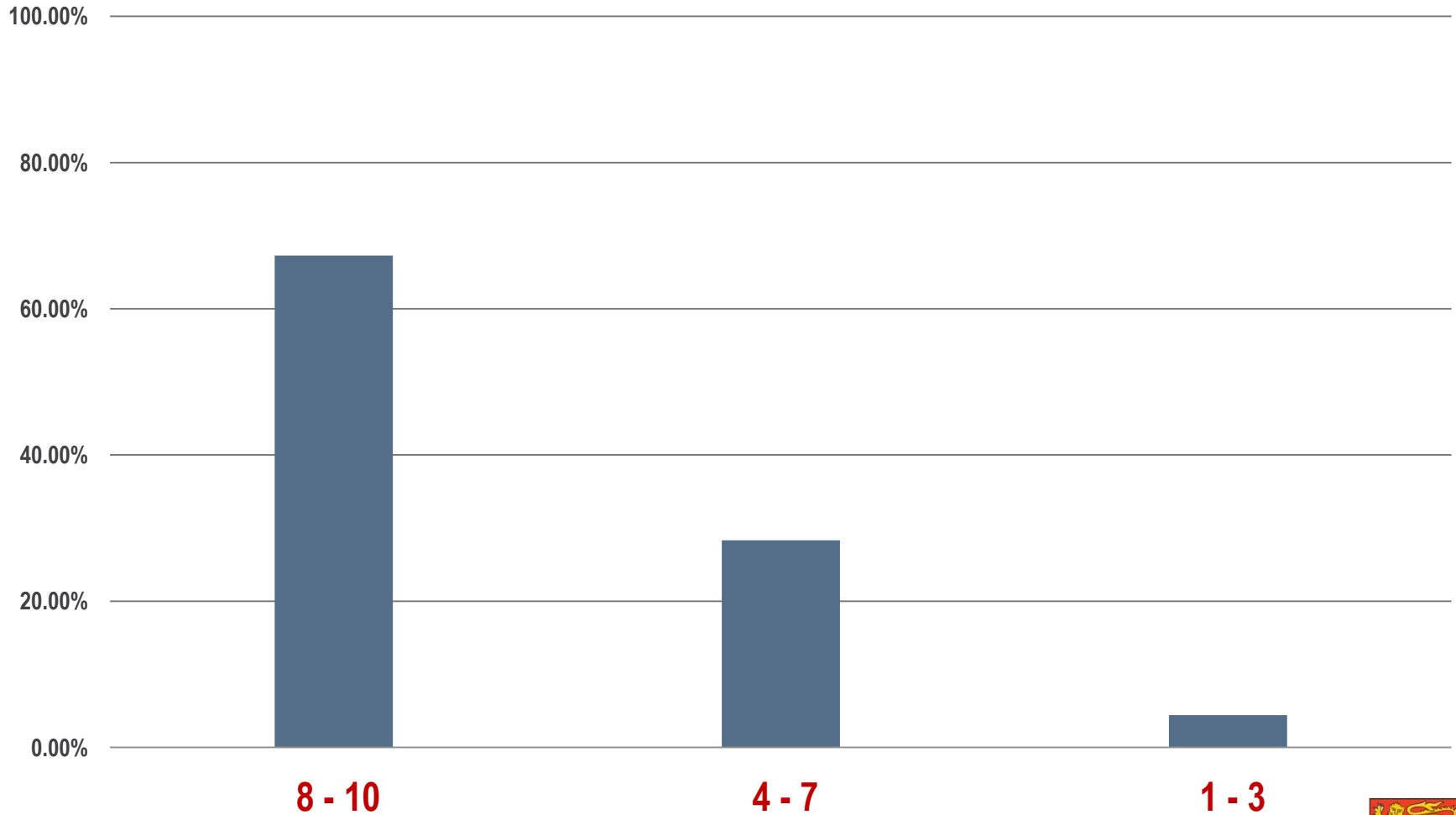
4. Undertake research

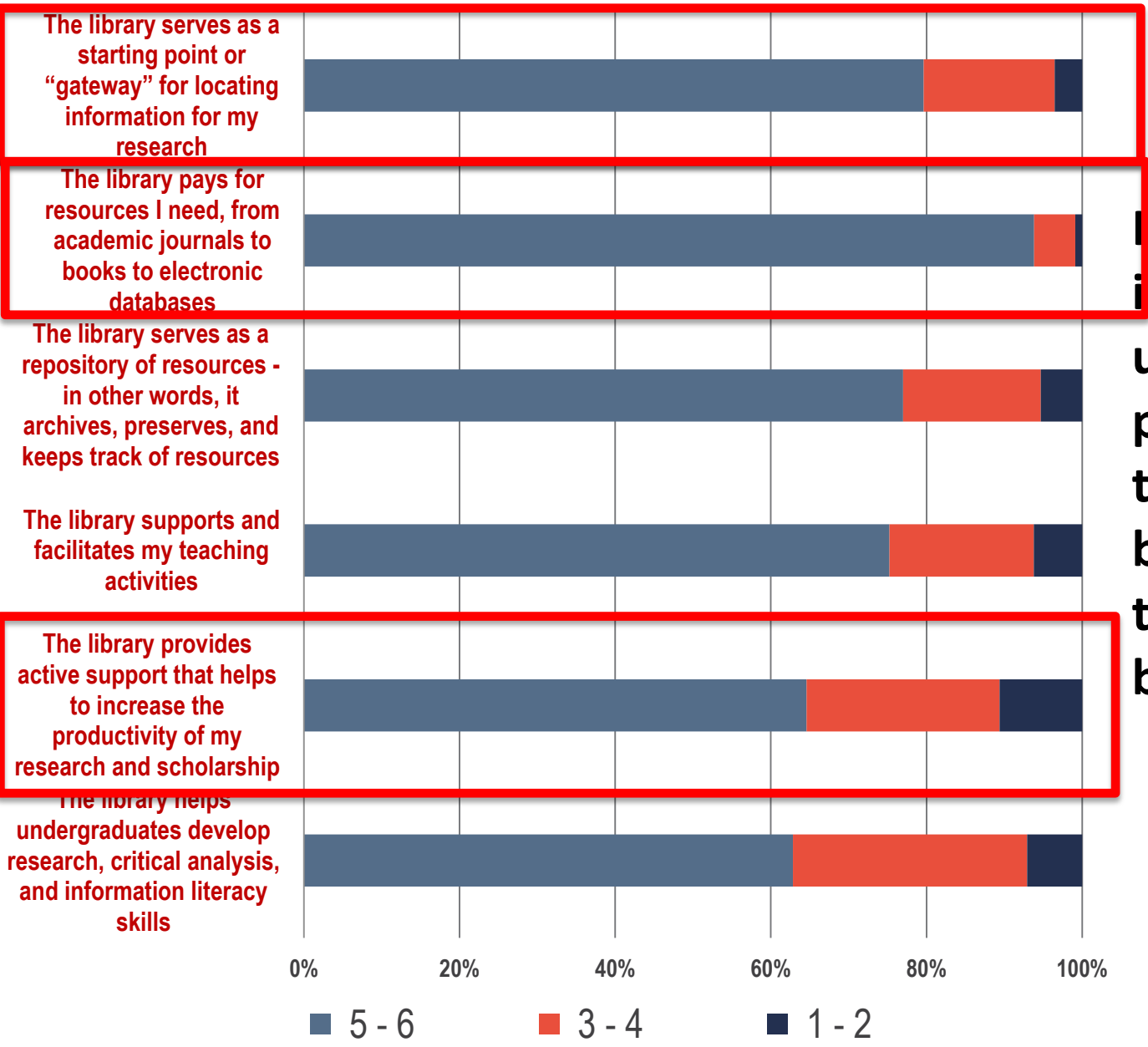
- Identify additional scholarly resources: *librarians, ILL, etc.*
- Citation management
- Identify useful datasets





How dependent would you say you are on your university library for research you conduct?





How important is it to you that your university library provides each of the functions below or serves in the capacity listed below?

5. Disseminate



5. Disseminate

- Identify suitable *conferences*
- Identify suitable *publication* sources
- Encourage and advise on Open Access
- Update researchers on bibliometrics



6. Archive/ preserve/share



6. Archive/preserve/share

- Repository
- Metadata
- Research data management



Supporting research: Opportunities



Research Data Management

Current Research Information Service (CRIS)



CRIS?

- ...a database or other information system storing data on current research ...
- for researchers: easy access to relevant information
- for research managers and administrators: easy measurement and analysis of research activity and easy access to comparative information
- for research councils: transparency and optimisation of the funding process
- for entrepreneurs and technology transfer organizations: easy retrieval of novel ideas and technology and identifying competitors
- for the media and public: easy access to information ... to allow easily-assimilated presentation of research results in appropriate contexts

– From Wikipedia





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The HKU Scholars Hub is the institutional repository of The University of Hong Kong. As a key vehicle of HKU's **Knowledge Exchange Initiative**, The Hub strives to make HKU authors and their research very visible, with the goal of increasing all forms of collaboration.

Quick Search of The Hub for:

Publications Research Collaborations Thesis Supervisors

Media Commentators

Search for Publications...

Featured Scholar



Dr King, Mark Edward

• Research Assistant Professor

Research Interests

- Social and public policy
- The impact of discrimination on mental health in minority populations

+ MORE

Hub News

- **Oct 2014:** Created Quick Searches on different types of researchers.
- **Jun 2014:** Created pages for faculties, depts & centres cumulating research and statistics to each one
- **May 2014:** Created **ORCID accounts** for all HKU Professoriate staff.
- **Mar 2014:** Added "Invited Lectures & Keynote Speeches" to HKU ResearcherPages.

Relevant Links

- [HKU's Top 1%](#)
- [Open Access @HKU](#)
- [HKU ResearcherPages](#)





Wang, M

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Books Edited (1)

Book Chapters (12)

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Speeches

Editorship

Community Service

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Teaching List, Current

Supervision of Research

Contact Information



Tel: 2859 7903

Office: HW 723

Professor Wang, Min 王敏

Title: Professor

Department: Department of Mechanical Engineering

Faculty: Faculty of Engineering

Research Interests:

(click to check for cognate researchers)

- Composite materials
- Materials/systems for controlled release of drugs/biomolecules
- Surface engineering
- Nanotechnology
- Biomechanics
- In vitro and in vivo evaluation of biomaterials
- Biomedical materials (in various forms: single phase or composite, dense or porous, bulk or coating, particulate or fibrous, single crystals)
- Engineering ceramics
- Processing, structural characterisation and mechanical testing of materials (ceramic, metals, polymers, and composites).

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Supervision of Research
Postgraduate Students
HKU Committee Appointments

Grants

Principal Investigator
Co-Investigator

Contact Information



Tel: 2859 7903

Office: HW 723 ✉

Professor Wang, Min 王敏

Title: Professor

Department: Department of Mechanical Engineering

Faculty: Faculty of Engineering

Research Interests:
(click to check for cognate researchers)

- Composite materials
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- Tissue engineering

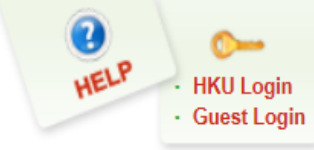
My URLs:

- Personal Page
- Biography
- <http://orcid.org/0000-0002-6495-5637>

Also Cited As:

Wang, M





Wang, M

Collaborations ▾

Tabulated

Visualized

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Co-Authors

Authors	No. of Publications
Tong, HW	55
Duan, B	36
Wang, C	34
Sun, T	33
Lu, William Weijia	31
Cheung, Wai Lam	29
Li, S	27
Sultana, N	22
Bonfield, W	21
Zhou W	21

Keywords in Publications

keywords	No. of Authors
Tissue Engineering - methods	12
Bone tissue engineering	10
Selective laser sintering	10
Bone Substitutes - chemistry	9
Hydroxyapatites - chemistry - radiation effects	9
Nanostructures - chemistry - radiation effects - ultrastructure	9

Co-Investigators

Investigators	No. of Grants
Lu, William Weijia	5
Chan, Barbara Pui	2
Luk, Keith Dip Kei	2
Chan, Danny	1
Cheung, Kenneth Man Chee	1
Cheung, Wai Lam	1
Ip, Wing Yuk	1
Ngan, Alfonso Hing Wan	1
So, Kwok Fai	1



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- Nanotechnology
- Biomechanics
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- Engineering ceramics
- Processing, structural characterisation and mechanical testing of materials (ceramic, metals, polymers, and composites).
- Tissue engineering

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Department:

Department of Mechanical Engineering

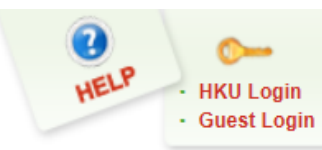
Faculty:

Faculty of Engineering

Research Interests:

(click to check for cognate researchers)

- Internal Metrics
- Monthly Increases (480)
- External Metrics
- Monthly Increases (28)
- Composite materials
- Materials/systems for controlled release of drugs/biomolecules
- Surface engineering
- Nanotechnology
- Biomechanics
- In vitro and in vivo evaluation of biomaterials
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- Conference Papers (330)
- Books (1)
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- Principal Investigator
- Co-Investigator

External Metrics

ResearcherID	Author ID	C-1584-2009
	Document Count	121
	Times Cited	806
	Co-authors	Collaboration Network
	h-Index	19

Scopus	Author ID	15749714100
	Document Count	176
	Total Citations	3315
	h-Index	31
	Co-authors	134

288 publications indexed in the Hub. Of these:

Scopus	157 are found in Scopus, with 3278 citations
Web of Science	85 are found in WOS, with 2384 citations
PubMed	32 are found in PubMed, with 78 citations
CiteULike	14 are found in CiteULike, with 3 bookmarked

ResearcherPage Statistics: Wang, Min

Charts

▶ View Count

- Download Count
- Item View Count
- Item Download Count

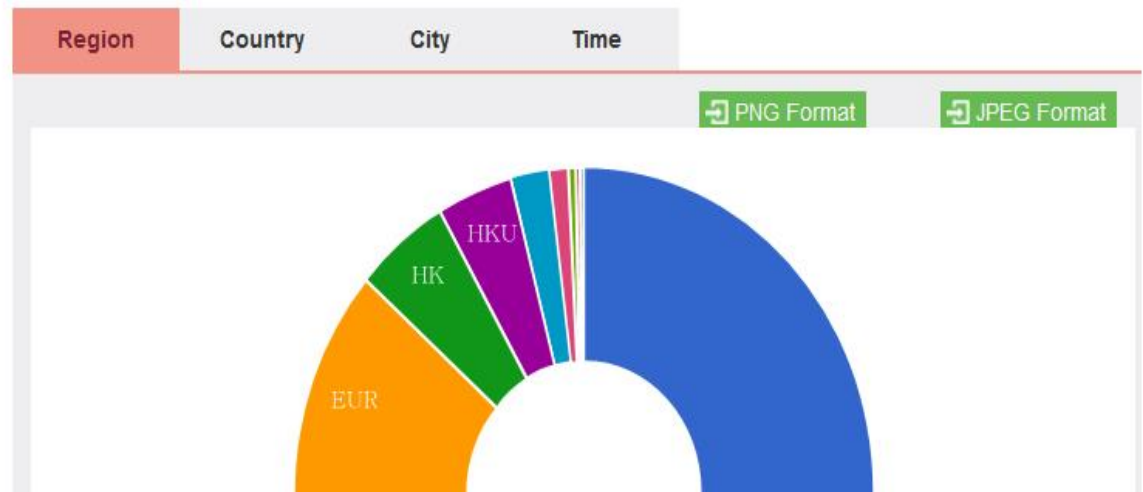
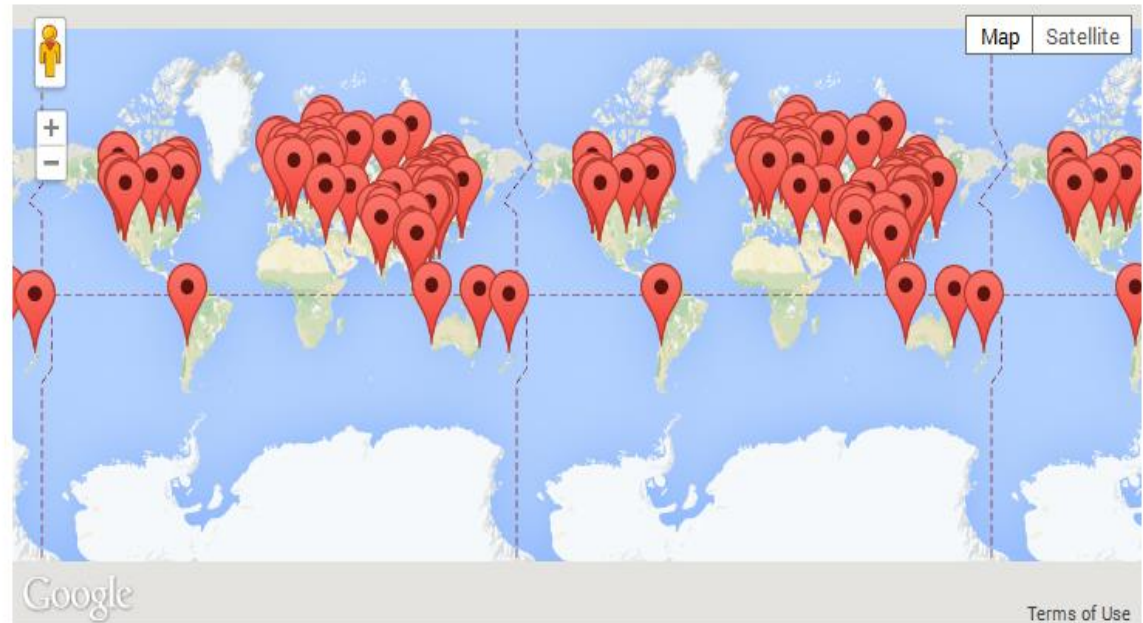
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Setup RSS Feeds

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- 📡 Weekly
- 📡 Monthly

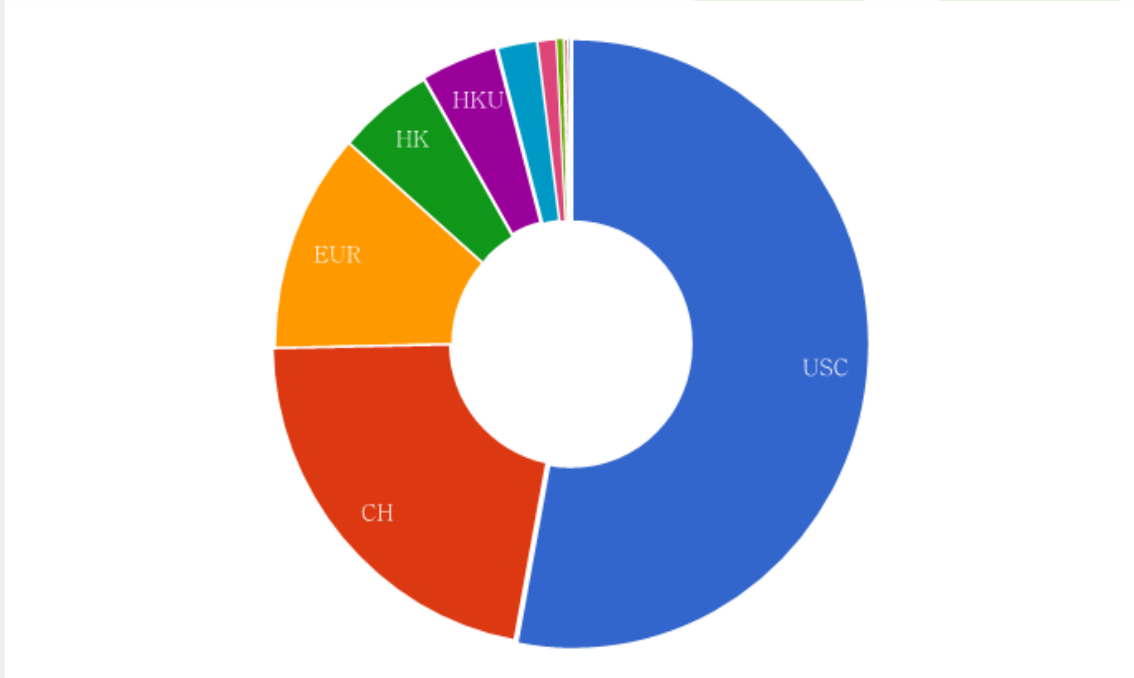
RESEARCHERPAGE VIEW COUNT (FROM DEC 2010)



Region	Country	City	Time
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Region	#
USC - US & Canada	8223
CH - China	3365
EUR - Europe	1828
HK - Hong Kong	830
HKU - The University of Hong Kong	637
ASIA - Asia, other	345
JPN - Jpn, S.Kor & Taiwan	170
AUS - Aus & NZ	64
AFR - Africa	30
LA - Latin America	25
OTH - Other & undefined	6
Total	15523

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Type	Resource	URL	ResearcherPage Views	
			Total	July 2014
Researcher Page	Sidorko, Peter Ed	link	7794	451

Type	Resource	URL	Item Views	
			Total	July 2014
Researcher Page	Sidorko, Peter Ed	link	11212	548

Type	Resource	URL	Item Downloads	
			Total	July 2014
Researcher Page	Sidorko, Peter Ed	link	6791	215

No. Items		Total Counts / % July increase		
		RP Views	Item Views	Item Downloads
1	Sidorko, Peter Edward	7794 / 5.79%	11212 / 4.89%	6791 / 3.17%

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My URLs:

- [Personal Page](#)
- [Biography](#)
- <http://orcid.org/0000-0002-6495-5637>

Also Cited As:

Wang, M

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2

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INFO** Enhance your ORCID record with your
professional information and link to your other
identifiers (such as Scopus or ResearcherID or
LinkedIn).

3

**USE YOUR
ORCID ID** Include your ORCID identifier on your Webpage,
when you submit publications, apply for grants, and
in any research workflow to ensure you get credit
for your work.



LATEST NEWS

Fri, 2015-05-01
[ORCID at scale](#)

Wed, 2015-04-22
[ORCID Joint
Statements launched
in Australia](#)

Thu, 2015-04-16
[Introducing Doug
Wright: Director of
Membership](#)

Reuse
Integrity **Data**
Research ScholarHub
RDM Access Metadata Security
Impact Share

Research Data Management



“The growing complexity surrounding compliance with funding agencies affords academic research libraries another opportunity for engagement with faculty. New data management rules will require grant recipients to more proactively and carefully plan for the storage, organization, description, and dissemination of their data...”

University Leadership Council, (2011), *Redefining the Academic Library: Managing the Migration to Digital Information Services*, Washington D.C.: Education Advisory Board, 2011.



What is Research Data?

“... units of information observed, collected, or created during the course of research. This is not limited to **scientific data**; it includes **social science statistical** and **ethnographic data**, **humanities texts**, or **any** other data used or produced in the course of academic research, whether it takes the form of text, numbers, image, audio, video, models, analytic code or some yet-to-be-identified data type.”

Erway, R. (2013). *Starting the Conversation: University –wide Research Data Management Policy* (p. 5).
Dublin, OH: OCLC Research. Retrieved June 18, 2014, from
<http://www.oclc.org/content/dam/research/publications/library/2013/2013-08.pdf>.



Benefits of Sharing Research Data

- Ensure research integrity
- Ensure research data and records are accurate, complete, authentic and reliable
- Increase research impact
- Enhance data security and minimize the risk of data loss
- Prevent duplication of effort by enabling others to use your data
- Be accountable to public funding

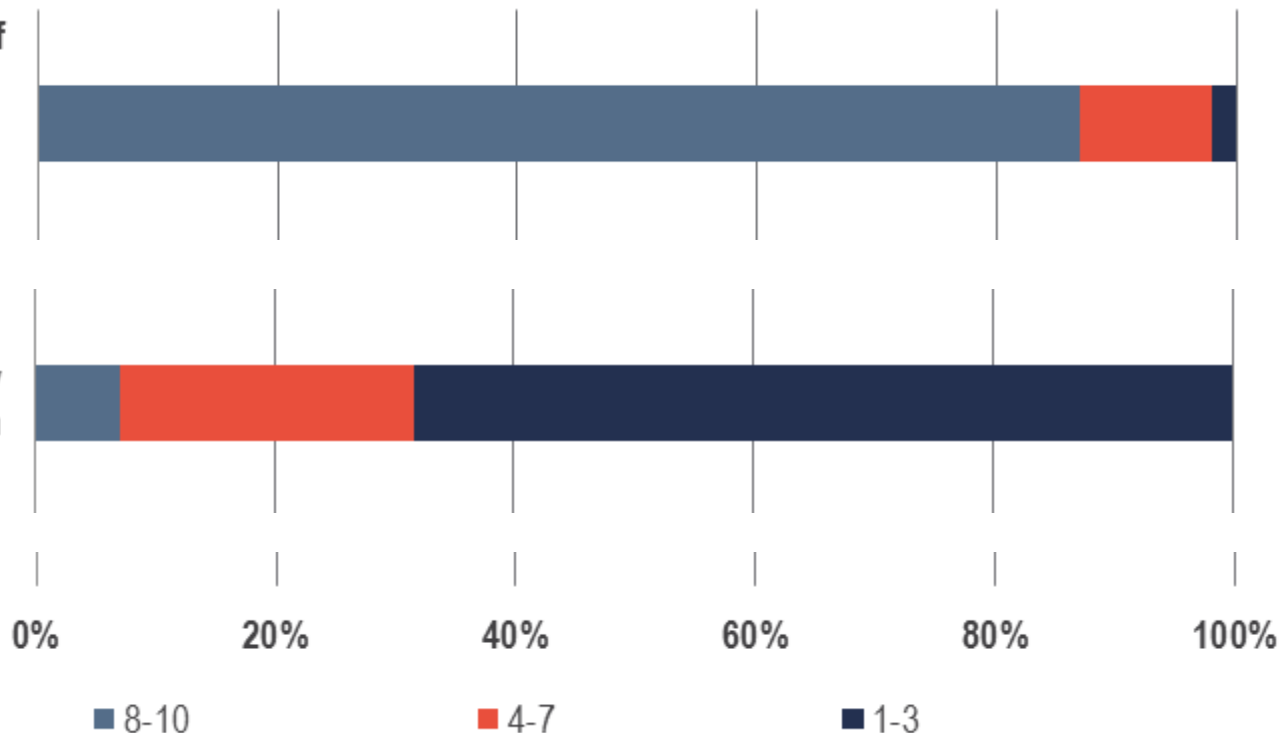




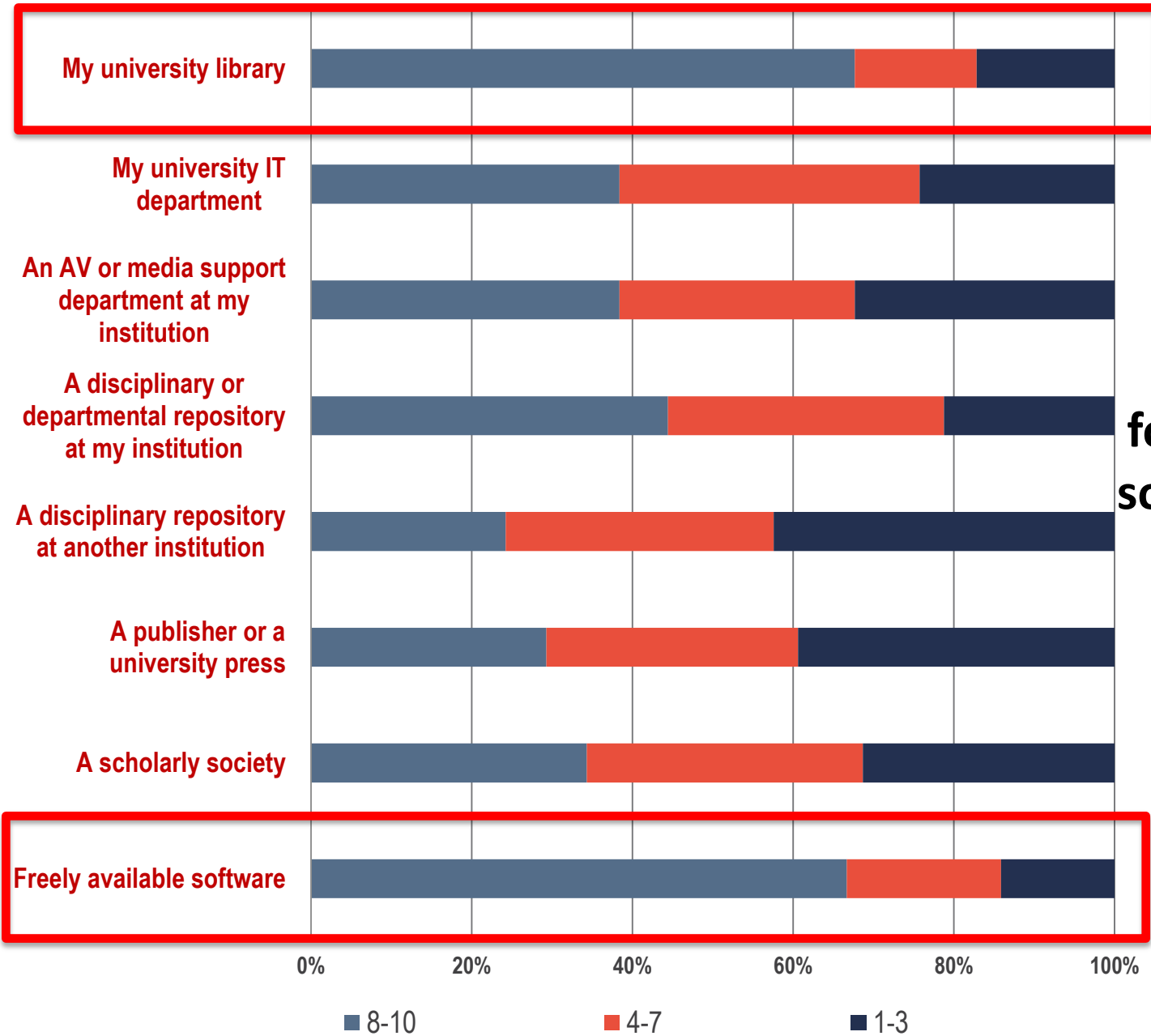
Who Manages Your Data?

When I am in the process of collecting data, media, or images for my research, I often organize or manage these data on my own...

My university library manages or organizes my data, media, or images on my behalf



How valuable would you find each of the following possible sources of support for managing or preserving research data, media, or images?



Research Data Management (RDM) Services

Store & Preserve – data backup and migration, retention period

Create - plan for data creation, such as format, storage; RDM advice

Advice, Support and Training

Access & Share – data citation, copyright, licensing

Organize – data files should be consistent; hierarchical



Library Support for Data Management at HKU

- “Policy on the Management of Research Data and Record”, endorsed by the University Research Committee and Senate
- HKU Libraries is a key partner in developing and implementing the University’s research data management *policy*
- Will upgrade the University’s institutional repository, the Scholars Hub, to *store and preserve* research data centrally
- Will describe research data with consistent *metadata*
- Will provide researchers with access to *training, support and advice*
- Recruited a “*Research and Data Services Librarian*”

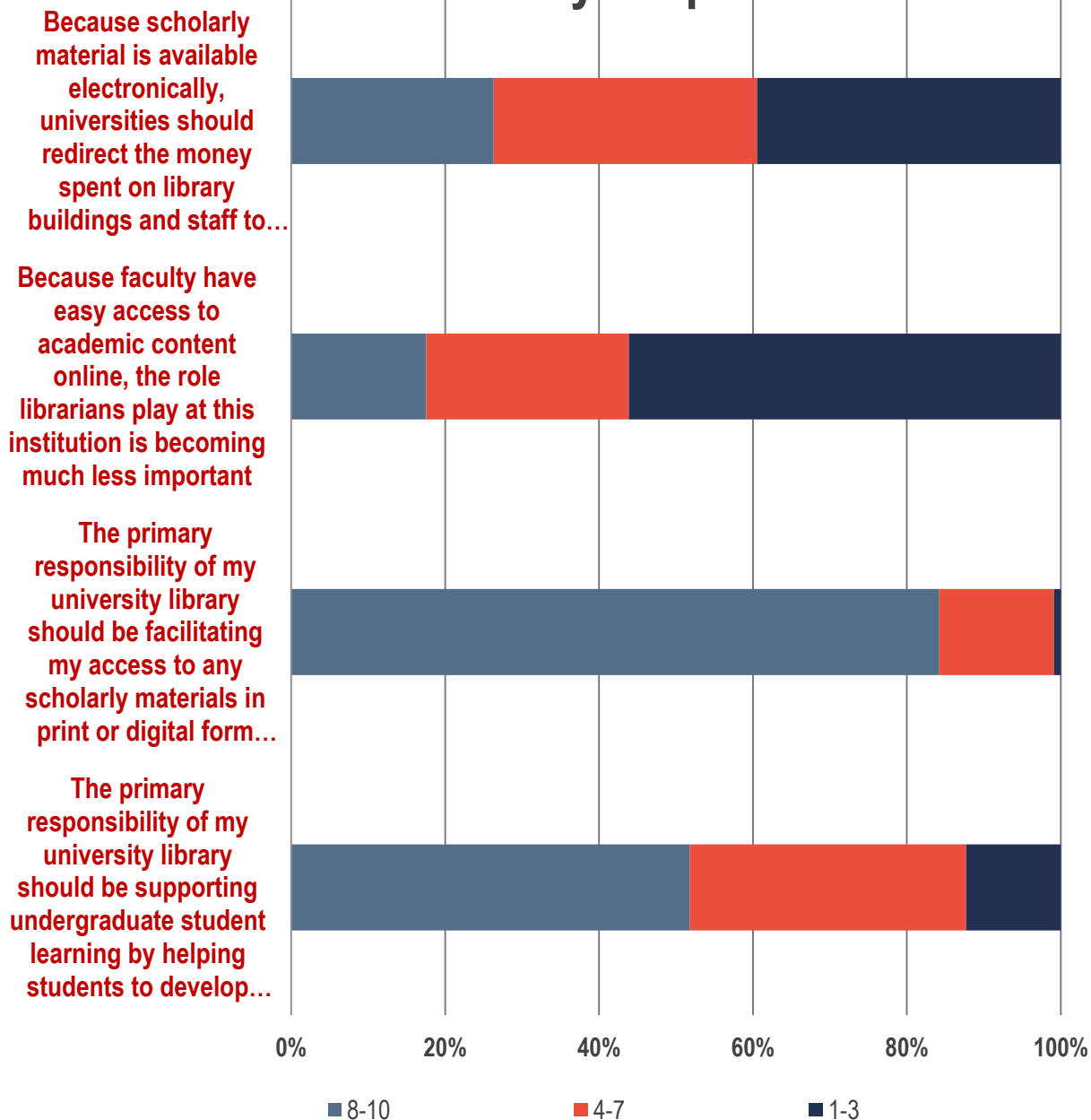


The Final Word





How well does each statement below describe your point of view.



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