

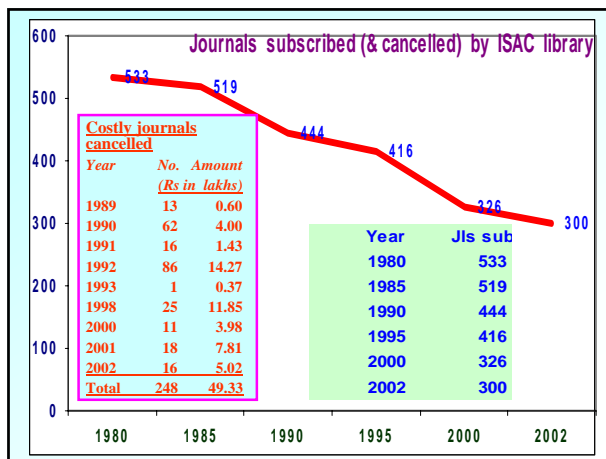
E-journals : resource sharing and consortia approach

M S Sridhar
 Head, Library & Documentation
 ISRO Satellite Centre
 Bangalore 560017

E-mail: sridhar@isac.gov.in & sridharmirle@yahoo.com

M S Sridhar, ISRO, B'lore

1



Factors considered

- ✓ Cost
- ✓ Use
- ✓ User opinion
- ✓ Alternate ways (ILL & DDS)
- ✓ TOC services
- ✓ Availability in cooperating libraries
- ✓ E-version
- ✓ Exchange

M S Sridhar, ISRO, B'lore

3

Cost vs. use of journals

Cell 1 : Low cost and low use journals:
 A library does not mind having such journals as long as they are not creating an abnormal maintenance cost. Alternatively, as long as they are not to be kept in the library for a long time, they are desirable

Cell 4: High cost and low use journals :
 These need to be carefully considered for cancellation. Strong user opinion and non-economic considerations need to be given attention

	Low use	High use
Low cost	1	4
High cost	2	3

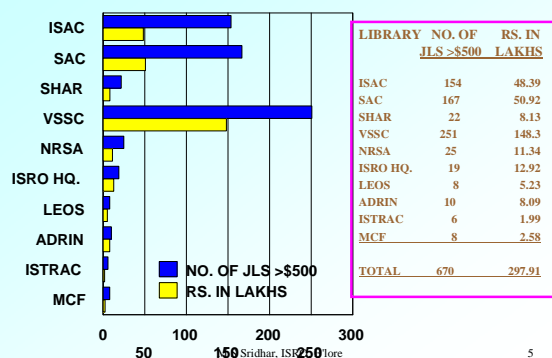
Cell 2: Low cost and high use journals :
 These are the ideal journals from a CBA angle for any library

Cell 3: High cost and high use journals :
 These need a separate ranking to see whether or not some with a very high cost per use can be cancelled and xerox copies of needed articles acquired and whether or not the journal can be shared with local cooperating libraries

M S Sridhar, ISRO, B'lore

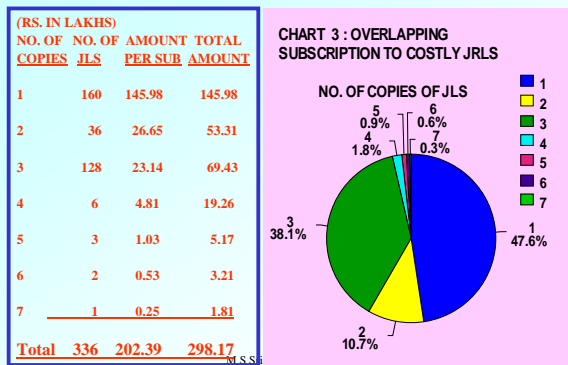
4

Costly journals subscribed by ISRO libraries



5

Overlapping subscriptions to costly journals



Consortia Approach

- New marketing strategy of publishers; uses 'leveraged resources' & 'distance information'
- Cost implications and organisational readiness (user acceptance) are important; No cost saving for existing subscriptions/ subscribers
- Tacit acceptance of current model "publishers won't accept less, libraries can't spend more"; New sustainable model required
- Publishers want current level of revenue flow to be maintained and are looking for new market; customer defined profile not accepted
- Consortia - different needs and difficulties of negotiating with group, more flexibility needed for libraries; Proportional distribution of savings/ benefits to consortia participant
- Price is same but incentives like additional databases, broader coverage of journals, links, TOC service, etc., are offered
- Bundling and unbundling; very few exclusive titles and large number overlap (desirable titles bundled with one of little value) & current usefulness of other titles in doubt; customised contents (of specific documents) not possible
- 'Journal war' between scientists and commercial publishers
- High margin (35%) of some publishers
- Low cost of production and distribution of e-journals

M S Sridhar, ISRO, B'lore

7

e-journals

E-journals delivered individually or in bundles, directly or through intermediaries mostly online via web but also available on CD, by e-mail and as text incorporated into databases

1. extent of subscription by individuals
2. extent of use under pay per use scheme
3. on-screen use without print
4. reader s/w - supporting multiple formats
5. ease of view; downloading
6. with or without print version; need for print
7. pre-print circulation
8. subscription based on no. of relevant articles appeared and / or used
9. management reports/ use statistics
10. who archives them? if publisher vanishes? back volumes on CD
11. implications on resource sharing network delays
12. software/ server frustrations
14. customer defined profile for aggregator; Swets Blackwell; EBSCO; Inf Quest; SwetsNet; OCLC; Gale; Bell & Howell
15. 3 m DOIs in use giving live cross-references in online journals

M S Sridhar, ISRO, B'lore

8

journal war

- Reed Elsevier (Anglo-Dutch co.)**
1. bought Harcourt General (USA) for \$ 4.5 b
 2. worth \$ 10 b (specialises in science, legal, education & business)
 3. controls 20% of science-journal market (1200+500 titles)
 4. has 35% margin (others 20%)
- Scientists**
1. want free/ wider access to their papers
 2. against steep increase in price
 3. want cutting publishing delays
- ARL**
1. average price increase of academic journals between 1986 & 1999 is 207%
 2. no. of journals bought is reduced by 6%
 3. Brain Resarch of Reed Elsevier cost \$ 17,444
- Public Library of Science (a group)**
1. boycott publisher who does not relinquish rights to bio-medical published papers after six months
 2. liberate research from the gatekeeping publishers by posting papers online from the start
- ACS & a group of scientists**
1. launched Organic Letters (\$2438) as a rival to Tetrahedron Letters (\$9036) of Reed Elsevier
 2. 500 manuscripts in 1st 100 days
 3. Publishers are ready to discuss a compromise

M S Sridhar, ISRO, B'lore

A Delphi survey on future of e-journals

- (45 scientists, publishers, librarians, journal agents and consultants about (1) reading (2) role as scholarly communication (3) sceenarios for future (4) serials crisis/ journal war (5) archiving (6) pricing & access models)
- FINDINGS:**
- Other publication channels will be more effective in certain areas
 - Peer-review & quality control are most important contributions of e-journals
 - Scholarly communication status will fall noticeably
- AGREEMENTS**
- e-journals represent transient medium
 - e-journals alone will not solve the serials crisis / journal war
 - Holding printed versions of e-journals as archival copies will be discontinued
 - Pay-per-use access will become more important
 - Desirability of preprint archives
 - Look of future e-journal
 - Responsibility for archiving
 - Consequence of pay-per-use access
 - Benefits of consortial licence agreements
- DIVERGENCE**
- Desirability of preprint archives
 - Look of future e-journal
 - Responsibility for archiving
 - Consequence of pay-per-use access
 - Benefits of consortial licence agreements

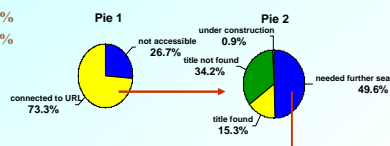
M S Sridhar, ISRO, B'lore

10

A case of e-journals in Taiwan

NOT ENOUGH TITLES: out of 2700 titles in the Index to Chinese periodical literature, only 280 had web sites and less than 1% provided full text journals; Chinese periodicals directory (available online) lists 892 e-journals. But a test revealed that

not accessible	238	26.7%
connected to URL	654	73.3%
- needed further search to locate	343	
- title found	106	
- title not found	237	
- under construction	6	

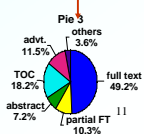


ACCESSIBILITY: access to over 50% of the titles could not be achieved in both tests

INCOMPLETENESS: out of 344 accessed, only 24% provided complete contents of latest issue; some were 6 issues behind schedule; back issues were only for recent 3 years

full text	Partial FT	abstract	TOC	advt.	others	total	
titles	205	43	30	76	48	15	417
%	49.2	10.3	7.2	18.2	11.5	3.6	100

less than 40% were covered by indexing journals



M S Sridhar, ISRO, B'lore

A proposal for cooperative acquisition of IEEE journals (10/10/94 - BSLG)

SL NO	TITLE (IEEE TR. ON...)	ISSUES/ YR.	1994 SUBN. PRICE IN \$ + AIRFREIGHT	PRORATA (PACKAGE) PRICE IN \$	SAVING IN \$
1.	Biomedical Engineering	12	285+66 =351	204	147
2.	Broadcasting	4	50+33 = 83	48	35
3.	Education	4	98+35 =133	77	56
4.	Medicine & Biology	5	105+36 =141	81	60
5.	Medical Imaging	4	150+39 =189	109	80
6.	Nuclear Science	6	170+93 =263	152	112
7.	Journal of Oceanic Engineering	4	115+45 =160	92	68
8.	Speech & Audio Processing	4	122+45 =167	96	71
9.	Professional communication	4	85+35 =120	69	51

M S Sridhar, ISRO, B'lore

12

Total \$ 680 (1994)

Consortia/ multiple copy price for selected costly journals

TITLE	NO. OF LIBRARIES	PRICE	CONSORTIA PRICE/ DISCOUNT	CONSORTIA SAVING (IN RS.)
1. MATERIALS SCIENCE & TECHNOLOGY	2	\$ 1429	\$ 525	45200
2. SPACE TECHNOLOGY / LISTER SCIENCE	3	\$ 800	\$ 760	6000
3. IEEE ALL SOCIETY PERIODICALS (106 TITLES)	3	Rs. 1684750	2.5%	126356
4. IEEE CSLSP PACKAGE (17 TITLES)	1	Rs. 503500	2.5%	12587
5. OTHER IEEE JOURNALS	3		2.5%	37000
6. INTNL. J.L. OF GEOGRAPHICAL INF. SC.	4	Rs.37748	3%	4530
7. INTNL. J.L. OF REMOTE SENSING	4	Rs.127836	3%	15340
Total				2.45 lakhs

M S Sridhar, ISRO, B'lore

13

Costly journals having marginal additional cost for online access

Title	No. of Libraries	Price			Saving in Rs.
		Print	Electronic	P+E	
1. AIAA JOURNAL	2	\$ 1075	\$1075	\$1235	32000
1. ELECTRONICS LETTERS	2	P 792	P 792	P 876	4200
2. IEE PROCEEDINGS (12 PARTS)	3	P1920	P 1920	P2016	127600
3. INTNL. J.L. OF SATELLITE COM	3	\$ 1620	\$1620	\$1701	8100
4. JOURNAL OF CLIMATE	2	\$ 446	\$ 349	\$ 469	1150
5. J.L OF GUID, CONTROL & DYN	6	\$ 595	\$ 595	\$ 685	2500
6. J.L OF PROPULSION AND POWER	3	\$ 635	\$ 635	\$ 730	9500
7. J.L OF SPACECRAFT & ROCKETS	6	\$ 555	\$ 555	\$ 640	21250
8. MONTHLY WEATHER REVIEW	2	\$ 420	\$ 338	\$ 443	1150
9. QUALITY & REL ENGINEERING	2	\$1380	\$ 1380	\$1449	3450
10. SOFTWARE: PRACTICE & EXP	2	\$2380	\$ 2380	\$2449	3450
Total					2.34 lakhs¹⁴

M S Sridhar, ISRO, B'lore

2.34 lakhs¹⁴

Tips for using Library & Information Services – 11 M S Sridhar, Head, LDD

E-journals subscribed by ISAC library

Can be accessed from any internet terminal of ISAC: Use bookmarks kept on library terminal

Taylor & Francis Journals

1. Heat Transfer Engineering
2. Numerical Heat Transfer 'A': Fundamentals
3. Numerical Heat Transfer 'B': Applications

University of Chicago Press Journals

1. Astronomical Journal
2. Astrophysical Journal
3. Astrophysical Journal Letters
4. Astrophysical Journal supplement
5. Publications of the Astronomical Society of the Pacific

Elsevier Journals

1. Composite Structures
2. Computer Aided Design
3. Cryogenics
4. Finite Elements in Analysis and Design
5. International Journal of Project Management
6. Journal of Engineering & Technology Management
7. Journal of Power Sources
8. Materials & Design
9. Microprocessors & Microsystems
10. Solar Energy Materials & Solar Cells
11. Tribology International

IEE proceedings

1. Circuits, Devices And Systems
2. Communications
3. Computers And Digital Techniques
4. Control Theory And Applications
5. Electric Power Applications
6. Generation, Transmission And Distribution
7. Microwaves, Antennas And Propagation
8. Optoelectronics
9. Radar, Sonar And Navigation
10. Science, Measurement And Technology
11. Software
12. Vision, Image And Signal Processing

Tips for using Library & Information Services – 12 M S Sridhar, Head, LDD

Free e-journals

Use bookmarks kept on internet terminal to access 57 free e-journals. The same in print cost 2.5 lakh per annum.

About the Author

Dr. M.S.Sridhar is a post graduate in mathematics and business management and a doctorate in library and information science. He is in the profession for last 35 years. Since 1978 he is heading the Library and Documentation Division of ISRO Satellite Centre, Bangalore. Earlier he has worked in the libraries of National Aeronautical Laboratory (Bangalore), Indian Institute of Management (Bangalore) and University of Mysore. Dr. Sridhar has published four books ('User research: a review of information-behaviour studies in science and technology', 'Problems of collection development in special libraries', 'Information behaviour of scientists and engineers' and 'Use and user research with twenty case studies') and 74 research papers, written 19 course material for BLIS and MLIS, presented over 22 papers in conferences and seminars, and contributed 5 chapters to books. **E-mail:** sridharmirle@yahoo.com, mirle.sridhar@gmail.com, sridhar@isac.gov.in; **Phone:** 91-80-25084451; **Fax:** 91-80-25084475.



M S Sridhar, ISRO, B'lore