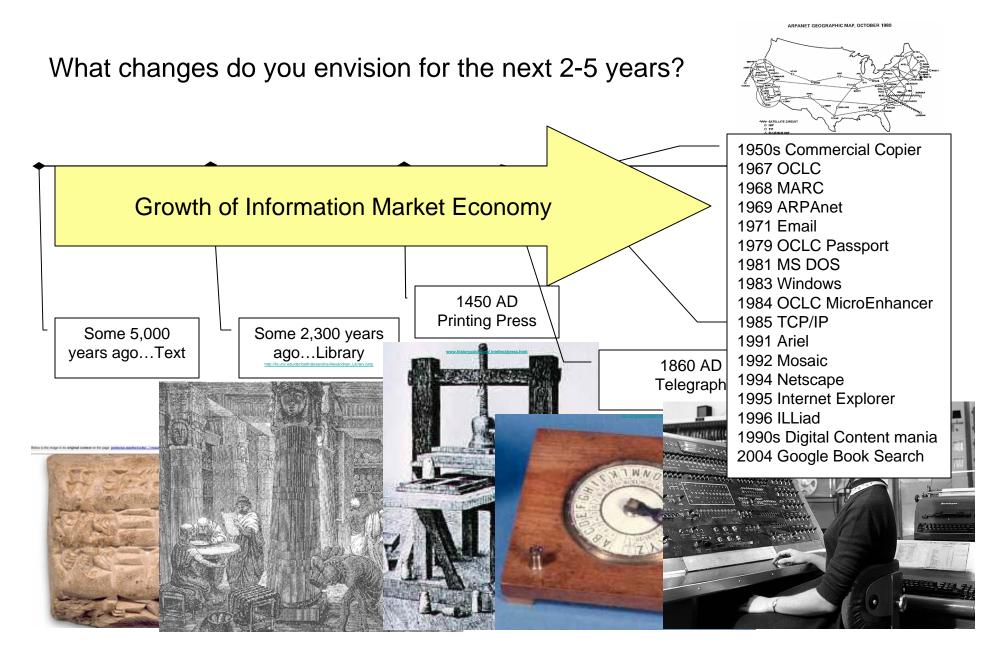
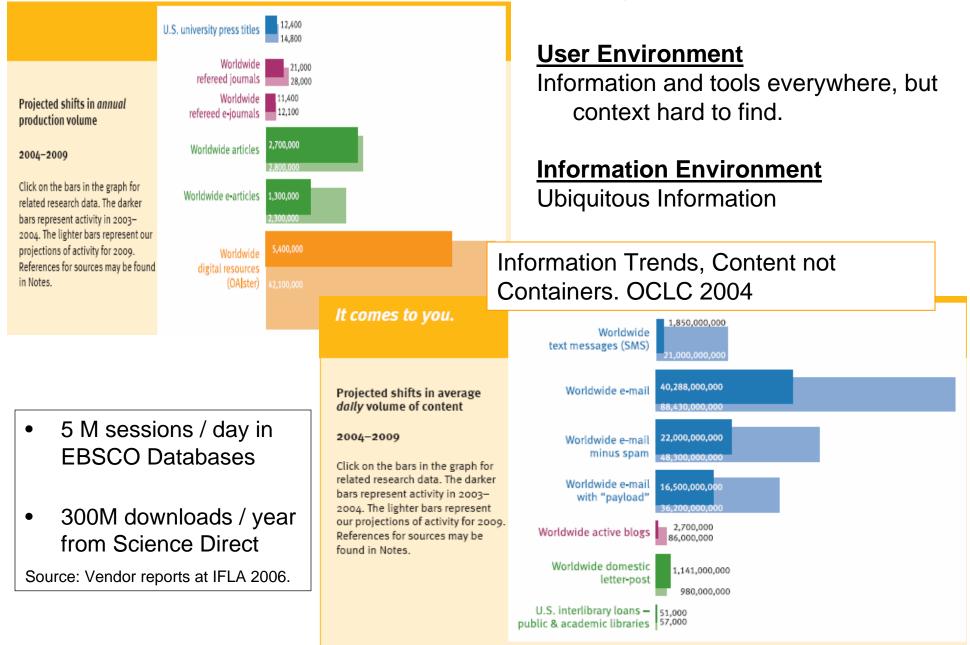
Resonant Resource Sharing Transformation strategies for Resource Sharing 3, 2, 2, 1 Context or reality check Transitioning strategies Transforming the business Conclusion & discussion

Presentation for the New York State Resource Sharing Summit June 5, 2007 By Cyril Oberlander, Director of Interlibrary Services University of Virginia Library <u>cwo4n@virginia.edu</u> Skype: cyril.oberlander AIM: electronicCyril

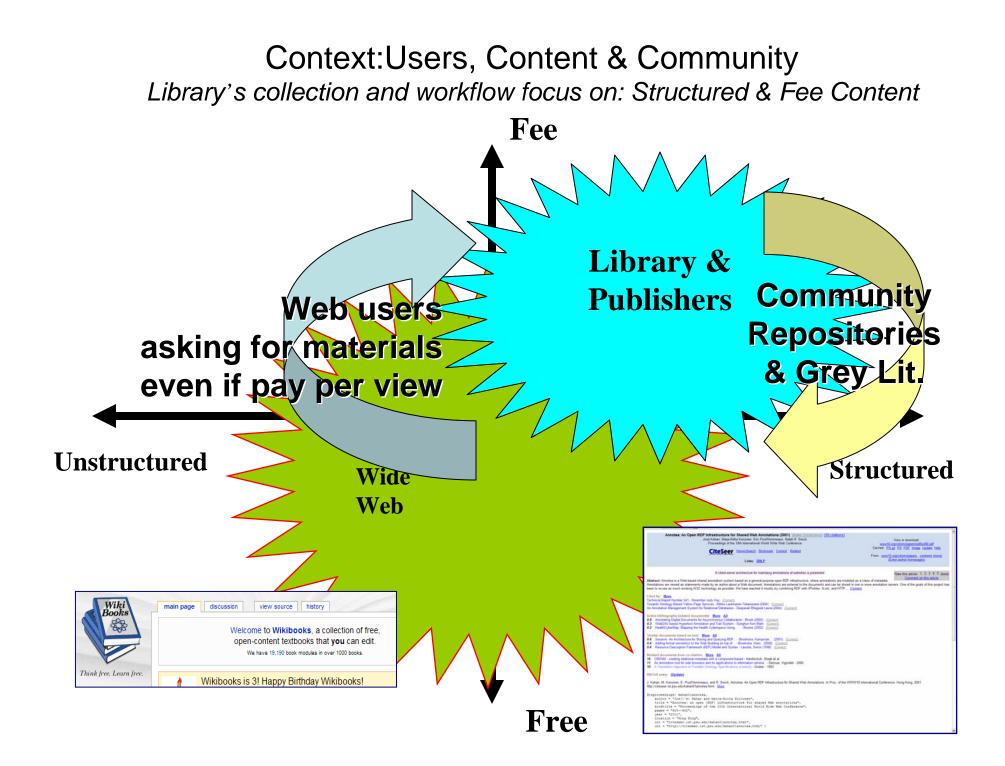
Context: Transitions or punctuated equilibrium

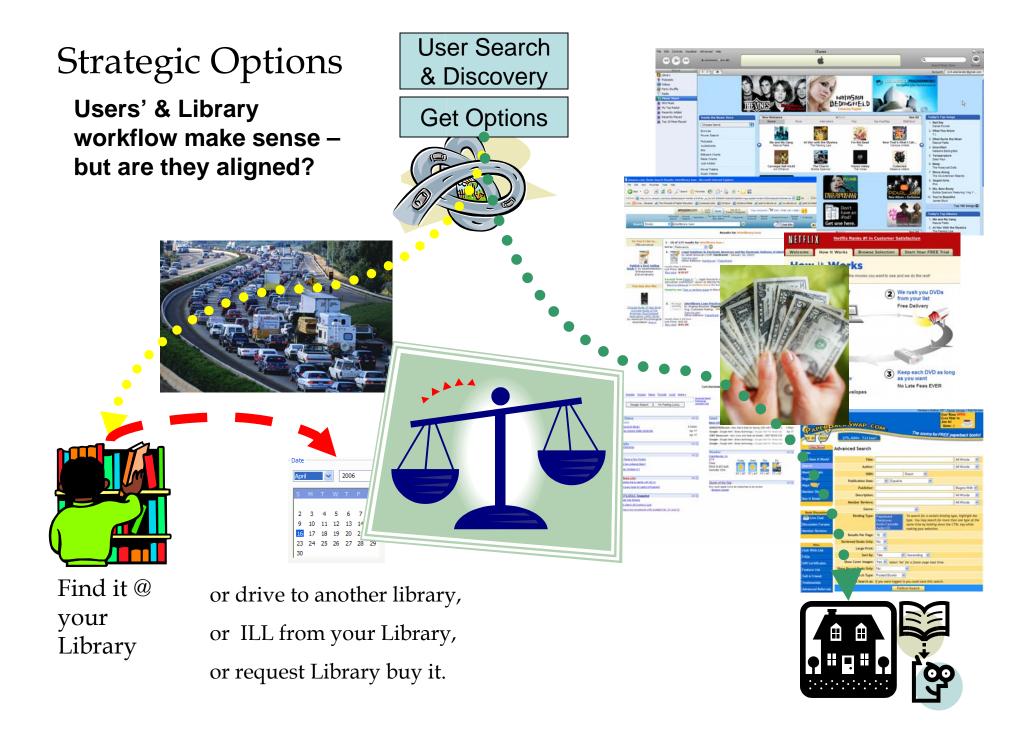


Context: Resource Sharing Trends



Bar graph values for each row in this chart are scaled only within respective rows, not across the entire chart.



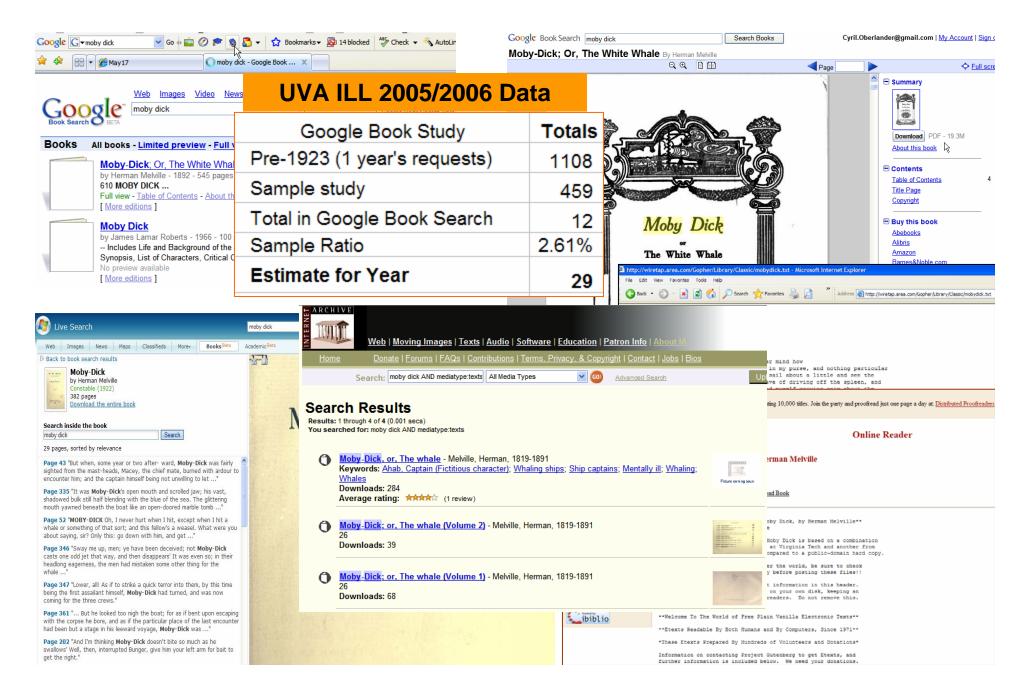




Reality: Expanding search



Reality: digital opportunities

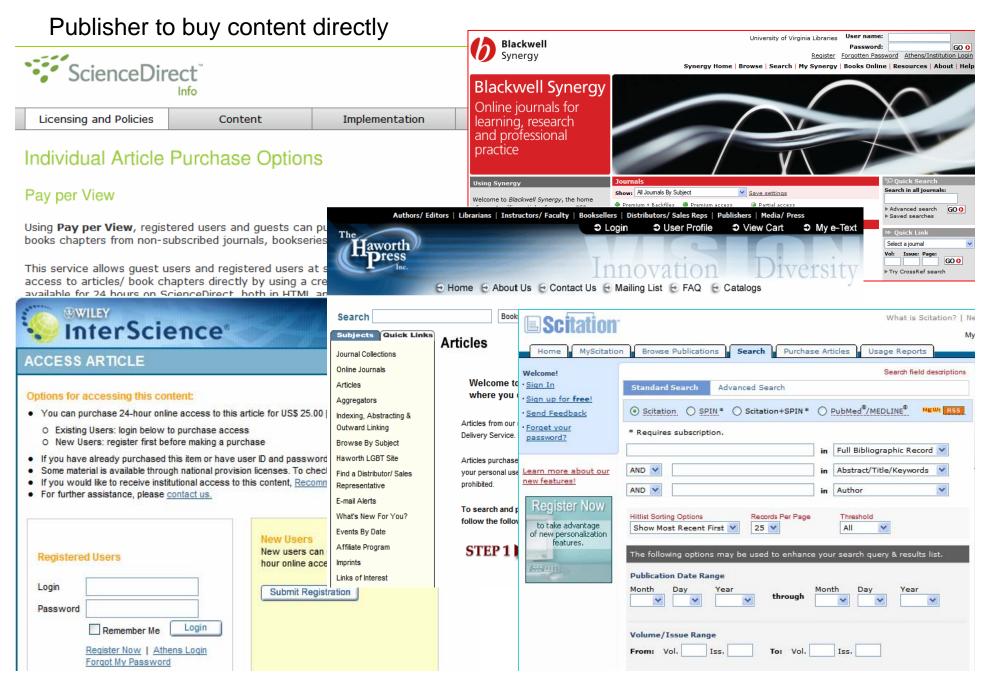


Reality: So many ways to pay (3rd party)

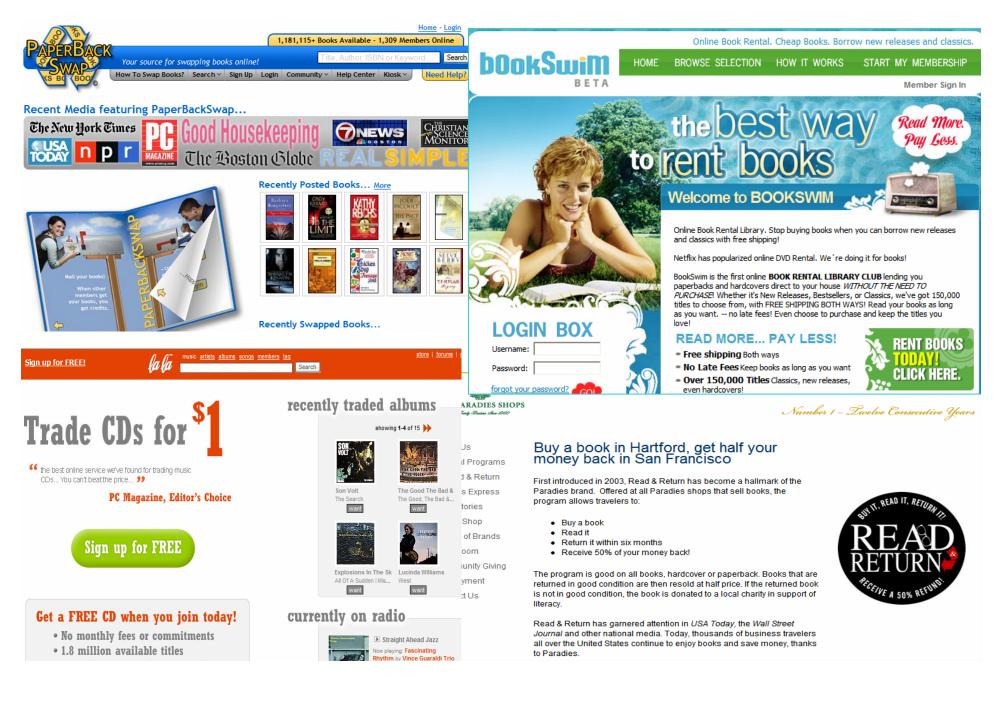
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Reality: More ways to pay (Publisher pay per view)



Reality: & options for Peer to Peer Trading or Pay to Borrow



Transformation strategies: Reality Check

Resource Sharing is a small but very essential part of information sharing, knowledge creation and the community.

Because...

- there is no precision or agreement to what a transformed library is or how it will emerge
- information environment *(content and services)* continues to rapidly change for users and libraries

What is our response?

Who decides?

Elsevier: from Print to Scopus & Scirus...

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Google 1998-2000, the early years...

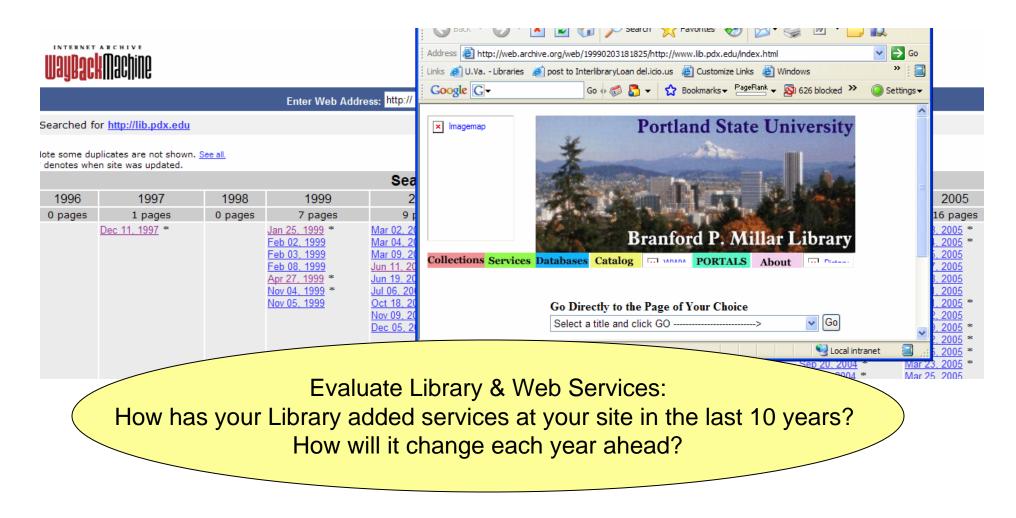


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Reality Check: Library Web Service Evolution

A tool to evaluate the richness of Library experience:

Internet Archive: http://www.archive.org/web/web.php



Transitioning strategies for Resource Sharing

The Basics

- Automate: Lenders, renewals, unmediated article lending, pay per view, etc.
- Systemize & scale consortia benefits
 - Keep it simple Circulation policy/service
 - Continually review & prepare to migrate
- Question Policy disconnects & opportunities evidence based decision making...
 - Ask the obvious Why overdue fines?
 - Semester check outs, Library pickup vs. home delivery, etc.

Transitioning strategies for Resource Sharing

Cooperative strategies:

• Economic Partnerships;

LVIS & Free-Share, Statewide recips, Consortia recips

• System Partnerships;

Shared Circulation Systems, Courier delivery, IDS, Rapid, Learning Management Systems (Sakai, etc.)

• Resource Partnerships;

Shared print repositories, Cooperative collection development (group purchases, coordinating selection profiles, etc.), SPARC, programming, statistics, training, etc.



Transitioning Workflow Delivery

http://montanalibrarycard.blogspot.com/ Choices

Special delivery

Libraries have the option to send items direct to users in WorldCat Delivery Pilot

BY CARRIE BENSELER

library system platforms and will interact with different early 2007. circulation systems. The service will also test the optional delivery of requested library items directly to users at their homes or offices.

By using NCIP (NISO Circulation Interchange Protocol), tem that will integrate OCLC's WorldCat Resource Shar-OCLC is facilitating joining together of disparate integrated ing and ILLiad services with local ILS imply library systems (ILS) to create a circulation-based resource service is an expansion of traditional inte sharing service.

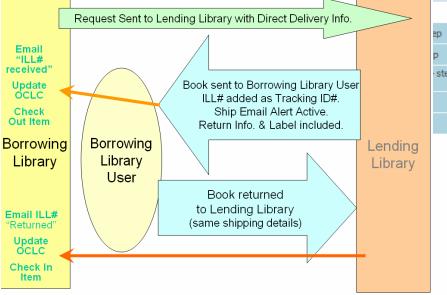
The goals of the pilot are to understand how libraries becomes integrated with circulation activi and fbrary users would use direct delivery, if made avail- If the resource sharing request cannot able, and also to understand how libraries would use WorldCat Delivery partner, it is automal interoperability between their ILS to simplify their work- WorldCat Resource Sharing as a tradit flows. The pilot will include several representative library Joan request. An additional request doer

OCLC IS TESTING A NEW SERVICE THAT WILL The pilot began July 2008 and will continue through facilitate requests for library materials across disparate December 2006. The new service is planned to launch in

How it will work

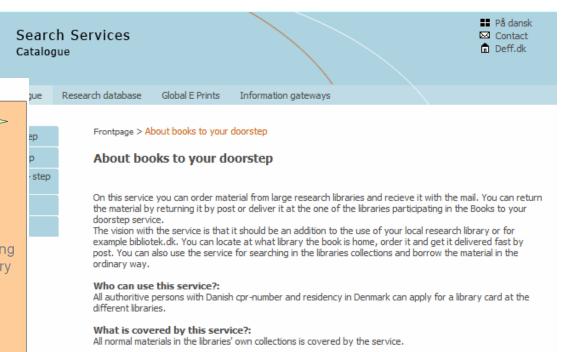
WorldCat Delivery is a resource sharing brokering syscrosses system platforms so that lending

Direct Delivery using 'smart' shipping systems



Pickup @ your Library (Courier systems)

Home Delivery



How does this service work?:

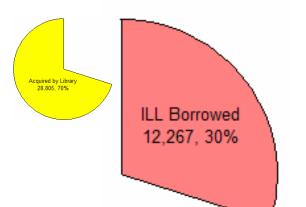
In the Books to your door step service you search only in those libraries who offer to send material with the mail, You will need to go to the different libraries' catalogs to see if the material is in circulation. See "get books to your doorstep for a practical going over how you get books to your doorstep.

Transitioning Strategies: Buy, Borrow or Lease?

Popular Titles, Textbooks, you know the sad tale... What strategies work?

Top OCLC ILL Requests 2004 - Alibris data prepared by Aric Rubin, Alibris

Title	# Requests Titl	Jsed es ple	Lowest Price for Used Title	Price for New Title	New Title Availability
DA VINCI CO	Exeter Public Library		\$8.95	\$18.95	yes
NEW SOLDIE			\$499.90		no
DOYLE BRUN	773 Ten Rod Road, Exeter, RI 🛛 🔤 🗸 401-294-4109 📀		\$19.30	\$20.97	yes
ANGELS & D			\$2.95		no
SOUTH BEAC					
PLAN FOR F			\$12.75	\$14.77	yes
SECRET LIFE			\$5.45	\$9.80	yes
WOMAN WIT	NETELIX @ your library				
GRAIL /	NETFLIX @ your library			Home > F	Products > McNaugh
PURPOSE-D	The Library has subscribed to Netflix, the online movie rental service. Now, if there is a title				
POWER VS. BEHAVIOR /	you are looking for that isn't on our shelves or the shelves of any other RI library, you can			-	
FREE MONE	request that we get it through Netflix for you. This is a great way to view the popular movies		ducts Services Online Tools P	ublic Libraries Schools	About Us Searc
DIGITAL FOR	that are always out, as well as the documentaries, foreign films, and television series that	and the second sec	Children Voung Adult AudioBour	d McNaughtonBooks.com	Automatic Plans
DIGITAL FOR	arent available at the rocal libraries. It's also a great way for us to provide the materials yet		-Newsletters Des		
	want, without having to purchase several copies of the same title. How it works: you place a paper or e-mail request with us. If the title is not readily available		cNaughton: Pop	bular Readi	ng
alibris	through the regular library delivery system, we will go into our Netflix account and order it for	Curre	ent, popular books move quickly or		
H	you. When the movie arrives, we will notify you and you can check it out for one week with	McN	e challenging materials are a boon aughton can help with the challeng	e of managing high-dema	and materials.
search	your library card - just like the movies we own. Depending on how popular the service		understand circulation demand and ictors of popular materials in the lib		the best
search all sellers in	become, your DVDs should arrive very quickly.		er yet, our leasing approach avoids	, ,	nt to satisfy
Books by title / ISBN	Choose the BROWSE tab on the Netflix site to see the titles they offer. Send us an e-mail director@exeterpubliclibrary.org with your name, phone # and title of the movie to take	temp	porary demand. So your collection lating current titles only as long as	will change as demands	
by author / artist	advantage of this new service.	circu	liating current titles only as long as	you need them.	
	Histori, Law, Hauterlauss, Medicine, Music, Philosophy,				
by subject / genre	ISBN (best) V Submit Submit HIGH-DEMAND LEASING	PURG	HASE PLANS THE MCN NEV	NSLETTER NEW	& NOTEWORTHY
advanced search	Reference: Dictionaries,		urchase books McNaughton lease? Our publishes a		e links for current ahts and news:
books movies music	Search by ISBN to find the right college textbook What is an ISBN? The International Standard Book Number (ISBN) is a 10-digit or 13-digit number (e.g., 0-	purchase p	blans offer high helpful guide	McNaug	htonBooks.com
	940016-64-8 or 978-0-940016-64-4) used to identify books. It is found on a book's back cover, near the bar code. Study Aids: Study Guides, Book Notes, Professional, Book Note	long with c	onvenient with our	Updates	& enhancements.
FREE SHIPPING search for eligible books	Your course requirements may include either a 10-digit or 13-digit ISBN to ensure that you purchase the Einancial Aid (more) and other material requires	subscriptio	also offer tips of	on getting the Just kee	p 'em.
DISCOUNT SHIPPING	Sall textbook subjects a plentiful supply for a short	quality sele	ection lists, shelf- most from us.		s - April 2004 oks for kids.
' from the same seller	Receive your textbooks on time. If you need them fast, look for textbooks from sellers with a high reliability rating, and choose Expedited shipping during checkout.		s and great New Programs	► Audio S	



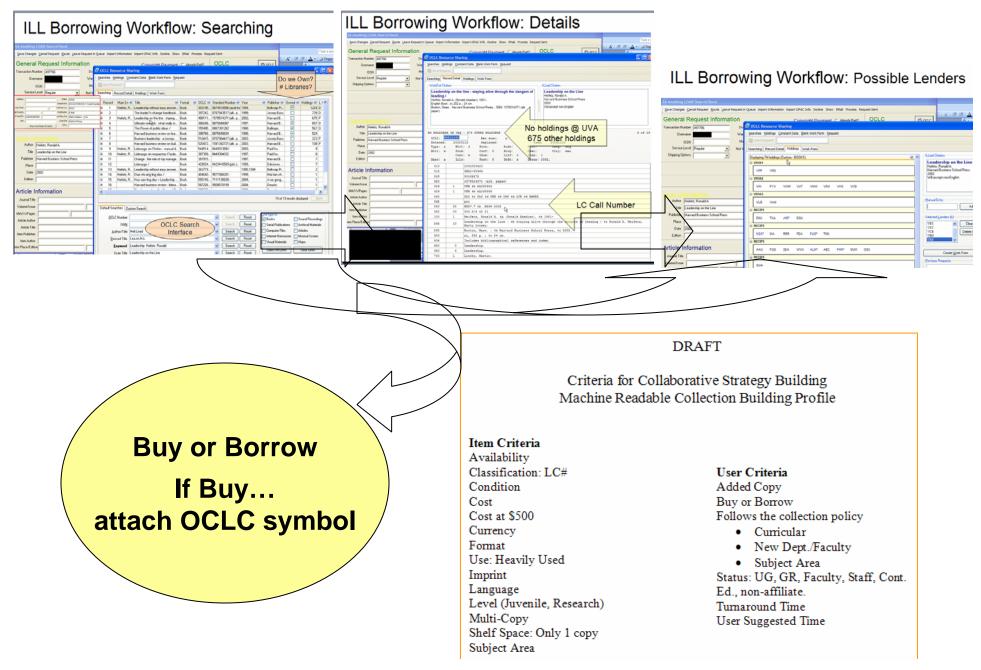
Transitioning Workflow:

Just-in-Time Acquisition or Purchase on Demand are only one strategy we have for delivery

1	LoanAuthor	LoanTitle	LoanPublisher	PubDate	Purchase Express or Not ?	Lowest Price Purchase\$	Source AL = Alibris AM = amazon	User says CitedIn	Status	Department	
54	Low Donald Anthony.	History of East Africa /		1976		\$19.89	AM	bibliography	FACULTY	POLITICS	
55	Podhajsky, Alois.	The art of dressage : basic principles of riding and judging /		1976		\$28.99	AM, AL=31.94		FACULTY	FRENCH	
56	Stavropoulos, Christoforos, 1929-	Partakers of divine nature /	Light and Life Pub Co	1976		\$49.00	AM, AL=\$76.89		GRAD	RELIGIOUS STUDIES	
57	Hinchliff, Peter Bingham.	Cyprian of Carthage and the unity of the Christian Church /	G. Chapman	1974		\$63.00	АМ	FirstSearch	GRAD	RELIGIOUS STUDIES	
58	Weiss, Arthur, 1912-	O'Kelly's eclipse.		1968		\$0.98	AM, AL=\$2.95		FACULTY	FRENCH	
59	0.01 0.114000	The secular city debate,		1966		\$2.02	AL, AM=\$9.99		GRAD	RELIGIOUS STUDIES	
60	Young, Wayland Hilton, 1923-	Eros denied; sex in western society	Grove	1966		\$2.95	AM, AL=\$4.94	OCLC 534789	FACULTY	ENGLISH	
61	Sweetman, Edward.	The unsigned New Zealand treaty ; a publication for the New Zealand centenary, 1840-1940,	Arrow Printery Pty	1939		\$44.95	AL	OCLC 6141380	FACULTY	HISTORY	
62	Notes	Avg. Pu	blication Date :	1992	Avg. Cost:	\$31.79	Total Cost for t request		\$1,907.31		

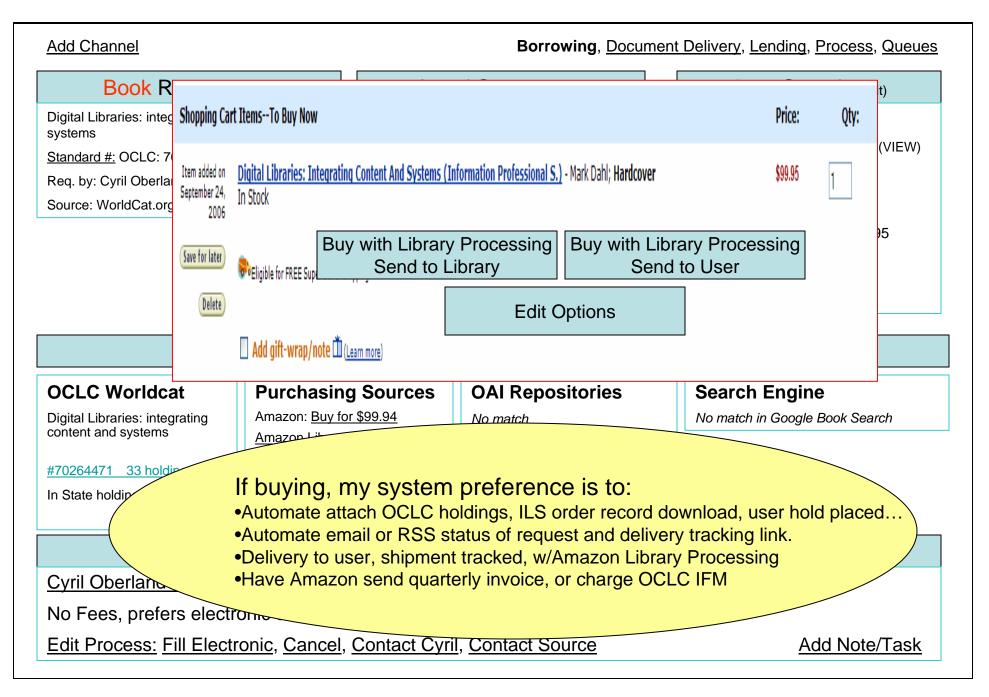
Of 246 requests received in one week in October 2005, we removed requests from Law, Miller, for materials we owned, no CDs or PhDs, and only requests with an available purchase price in Amazon or Alibris. We estimate that about 60 requests per week can be purchased, roughly 24% of ILL loan requests, and about 37% of those are recently published (22 of 60 were published between 2000-2005).

But we need a transformed workflow: Convergence

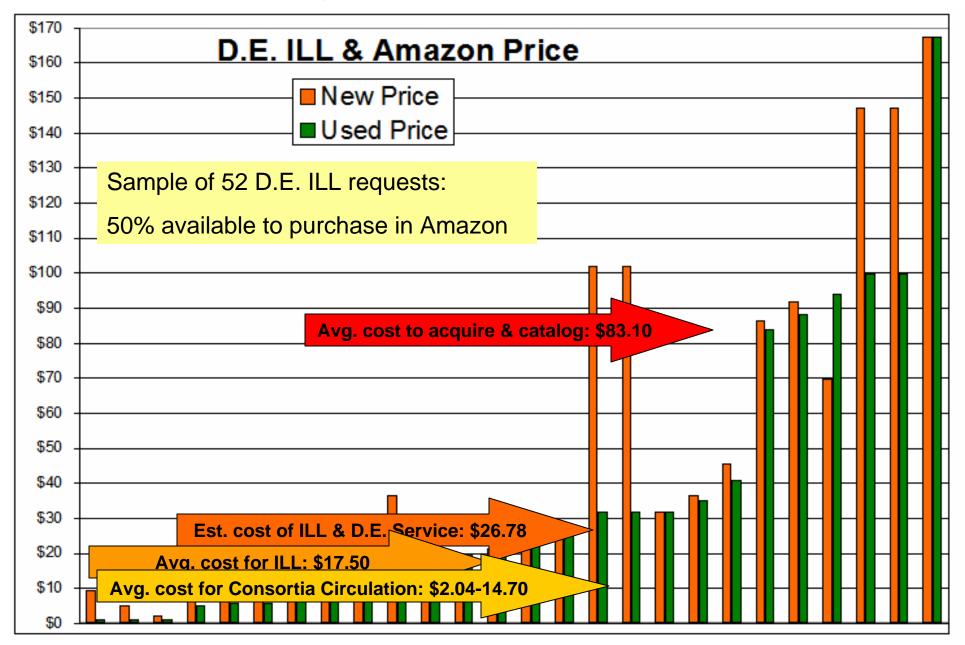


Add Channel		Acquisition, Borrowing, Document Delivery, Lending, Process, Queues									
Book Request	(Edit)	Loc	al Source (Edit)	Aut	Auto-Search (Edit)						
Digital Libraries: integrating conte systems Standard #: OCLC: 70264471 Req. by: Cyril Oberlander, Facult Source: WorldCat.org		and systems Checked Ou Hold: 1	ut: Due Never Times Checked Out: 5 opies at UVA	Purchasir Amazon Buy Barnes & No Search E							
		Get	/ Deliver (Edit)								
OCLC Worldcat Digital Libraries: integrating content and systems #70264471 33 holdings In State holdings: 2	Purchasing Amazon: <u>Buy for</u> <u>Amazon Library</u> Barnes & Noble:	<u>\$99.94</u> Processing	OAI Repositories No match		Search Engine No match in Google Book Search						
		Nex	t Step (Edit)								
Cyril Oberlander: cwo4n	<u>@virginia.edu</u> , V	V: 434-243-228	32 <u>SKYPE</u> , F: 434-924-433	, <u>Mail</u> , AIM: elec	troniccyril <u>Chat</u>						
No Fees, prefers electro Edit Process: Fill Electro	•	•			Add Note/Task						

Example Personalized Book - ILL Workflow



Transitioning Workflow: What makes sense?



Transitioning Workflow: Archiving Self-Publishing

Grey Literature or unpublished materials

Guides:

http://del.icio.us/InterlibraryLoan/GreyLiterature

Best Practices:

Acquire & Catalog on demand

1st try to get a digital copy and ask for rights add to your institutional repository or digital library.
2nd acquire the print and catalog so no one else has to bug the author.

Anticipate needs

Offer Free or fee based Library Metadata & Archiving Service to communities that produce these conference proceedings, reports, etc

Service Collaboration

Convergence with reference, ILL, acquisitions, collection development



Transitioning Workflow: Digital ILL

Digitize on Demand: *if you can – do, and share it.*

"Small items that are too fragile to circulate on interlibrary loan are usually supplied through a photocopy. But photocopying often shortens the life of the original... LOC now scans this type of material and delivers the images via the Web... A scanned item will be accessible from this page for at least six months... then be permanently accessible from the Library of Congress catalog..., and an 856 tag will also be added for the DLC holdings record in OCLC."

Digital Interlibrary Loan, Library of Congress: http://www.loc.gov/rr/loan/illscanhome.html

Others doing this...

•National Library of Australia, for public domain Australian works that are requested by ILL: <u>http://www.nla.gov.au/policy/digitisation.html</u>

•Europe eTen DoD: <u>http://www.uibk.ac.at/ub/dea/eten/</u>

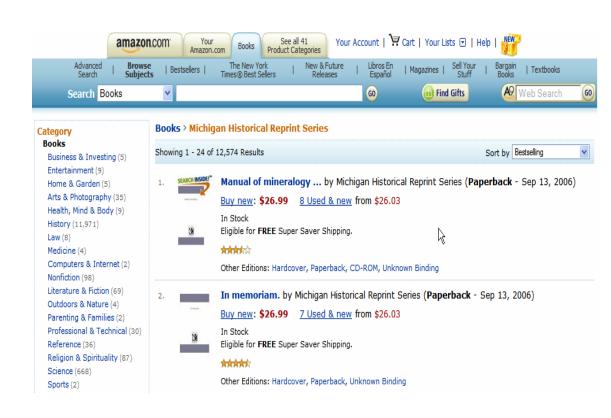
Opportunities for Ideal... Expand the use of Odyssey as article scanning tool, to also provide optional delivery of articles to a public domain repository (maybe OCLC's digtial archive) that automatically incorporates the contributions combined with ILL bibliographic citation.

Transitioning Workflow: If digital, why not Print?

Print on Demand - a solution to rare material ILL?

There are over 12K books from the Michigan Historical Reprint Series in Amazon; prices range between \$12-\$43.

"Print-on-demand is an attractive alternative for scholars on a budget. Another top seller, the 1898 textbook "A Treatise on Universal Algebra with Applications" by Alfred North Whitehead, is available from Cornell for \$35.99 versus \$600 for the original from a used book dealer. " <u>http://www.news.cornell.edu/stories/April07/LibAmazon.dea.html</u>



Cornell University

CHRONICLEONLINE

April 24, 2007

From abolition to algebra, CU Library's unique holdings are available to readers online

By Daniel Aloi

A selection of rare and out-of-print historical materials at Cornell University Library is only a click away for readers using a new print-on-demand service.

The library partnered with BookSurge, a subsidiary of Amazon.com, in June 2006 to make available some of its unique non-copyrighted holdings – collections ranging from historical mathematics and agriculture texts to anti-slavery pamphlets.

Anyone browsing Amazon.com can now access 3,500 Cornell titles available for sale, and other documents are being added. Google BookSearch also will lead users to Cornell titles on Amazon. (BookSurge also distributes print-on-demand historical materials from the University of Michigan Library and the library publisher Thomson-Gale; and Microsoft's LiveSearch Books service carries public domain materials from Cornell and other universities.)

Available Cornell collections on Amazon include New York state historical literature (a



Transitioning Workflow: Space & Shared Last Copy Got Unlimited Shelve Space?

			Center for Research Libraries										
about CRL	members	hip collectio	ons preservation projects & programs										
		preservation	Pr	int Archives									
		Digital Archives International			ning to maintain important printed iterials, due to the cost of preserving	and							
Shared Print Repositories													
	-				retooled Resour	rce							
	naring t	to fit this	new holdings model?										
Keyword 🗸	go	Print Archives	Re	elated Links									
quick links		> Books > Government Documents	>	Preserving America Books	a's Print Resources								
Collection Sear		> Journals		Government Docum	nents								
> Digital Collection > Requesting Market	·····	> Newspapers	Journals										
Member Service	••••••	> Reference Books	>	Newspapers Reference Books									

Transitioning Workflow

Cooperative Disaster Planning

Cooperative Disaster Plan for Resource Sharing



Univ. of Virginia & Univ. of North Carolina Health Sciences Libraries can log in and process requests using each other's hosted ILLiad system in case of disaster.

navigation

- Home
- About LOCKSS
- Libraries
- Publishers + Titles
- How It Works
- For Librarians
- For Publishers
- Installing LOCKSS
- LOCKSS Alliance
- Related Projects
- Publications
- Talks
- CLOCKSS
- Contact Us

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Go	Search

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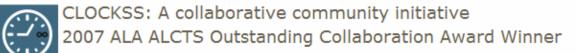
Welcome

Libraries are using the LOCKSS Program to build libraries! With publishers, our community is working to retain libraries as long-term memory organizations in the electronic environment.

People with responsibility for scholarly assets agree: digital preservation is important. With your help, librarians and publishers are asking two fundamental questions: From this moment on, who will have custody of societies' electronic information? From this moment on, who will control and govern societies' electronic archival assets?

Join us! The community is working to insure important scholarly assets remain available in a distributed, self-repairing, robust, digital preservation system.

LOCKSS is OAIS compliant, LOCKSS migrates content forward in time , and LOCKSS continually audits and repairs the content. LOCKSS is open source software -- the system is freely available for you to examine and use.



Transformation strategies for Resource Sharing

Explore HorizonsNew PartnershipsEmergent Technology

Transformational Workflow: Digital Divide Partnerships

Specific services to print disabled are opportunities to develop new partnerships.



Transformation going Mobile: small screen content & services

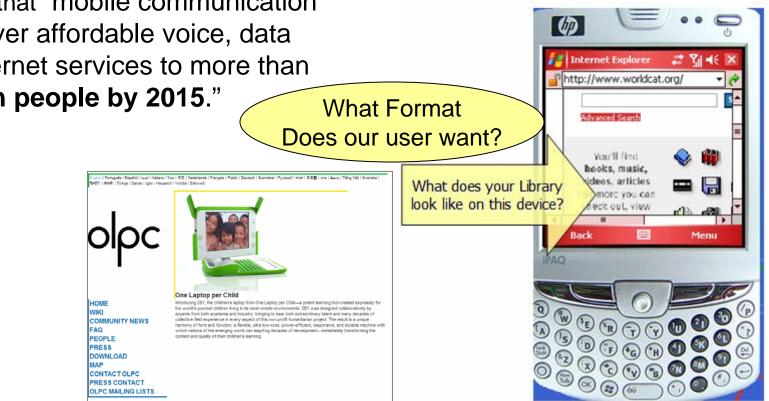


New Workflow Issues: From our big box to user's small screens

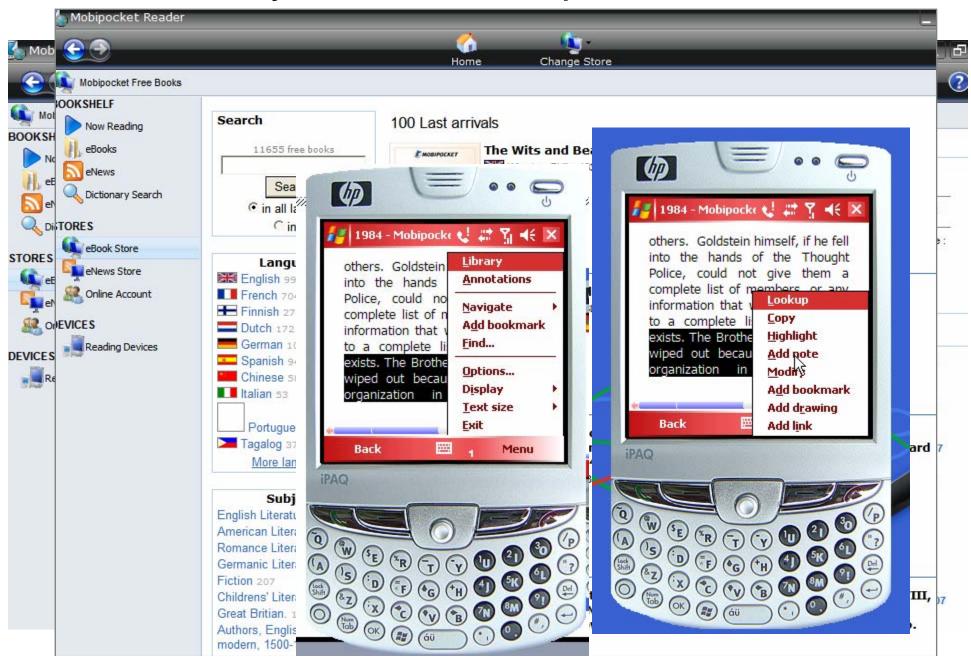
Specific uses to be aware of: Mobile Technology – why? **1.1 billion library users** OCLC report: http://www.oclc.org/reports/2003libsstackup.htm

GSM Association reports that **2.5 billion people currently use GSM phones** for mobile communication, and predicts that "mobile communication will deliver affordable voice, data and Internet services to more than **5 billion people by 2015**." "Ubiquitous handheld access is more prominent thanks to digital lifestyle devices such as smart phones and iPods, **yet libraries still focus on digital content for typical desktop PCs**."

Robert McDonald & Chuck Thomas, "Disconnects Between Library Culture & Millennial Generation Values," *Educause Quarterly* No. 4, 2006



Library eBooks, Mobipocket & Use



New options surface all the time

- Is this useful to our aligning user – Library workflow?
- Buy for you or the Library?
- Send to you or the Library?
- You rent or I rent?



How does the Amazon Unbox on TiVo service work?

Using Amazon Unbox on TiVo is easy. After a simple one-time registration process, you will be able to select your TiVo DVR as a RemoteLoad download destination each time vou purchase or rent a video from Amazon Unbox at

My account | Checkout | Login

fltems: 0 / Total: \$0.00 view cart



Considering our options:

What is the best role?

Are we looking for service limits or flexibility?

Are we looking for new partners, strategies, & tools?

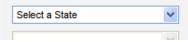
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Shopping for Change

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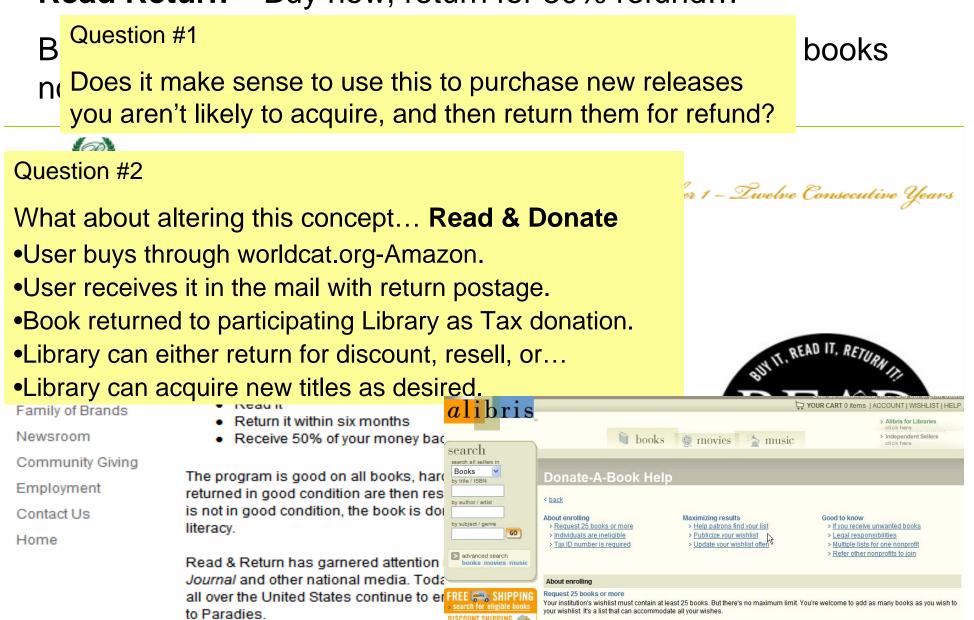
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Start by registering online, then select which product or products you'd like to learn more about. You're welcome to come in with a list of questions, but it's not necessary. When you arrive at the store, a Mac Specialist will be waiting for you. Transformation strategies for Resource Sharing Example **Read Return –** Buy now, return for 50% refund...



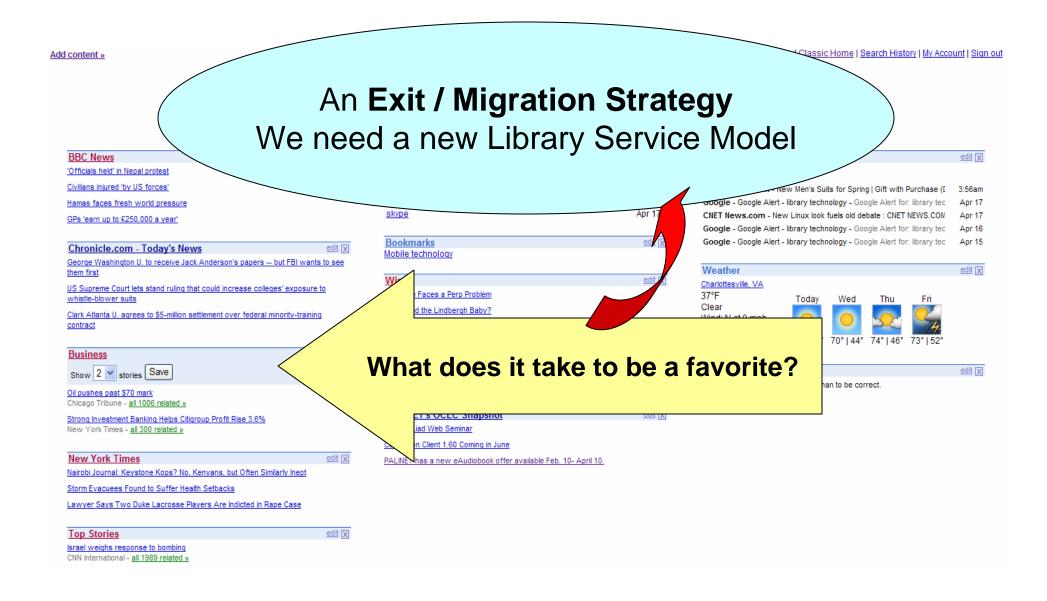
Transforming the Business

"I have always believed in resource sharing, but I am beginning to wonder if we can maintain the old models." NY Resource Sharing Summit attendee's comment

"Service redesign... needs to fit both the problem at hand and the company's capacity for innovation." Berry, p. 266.

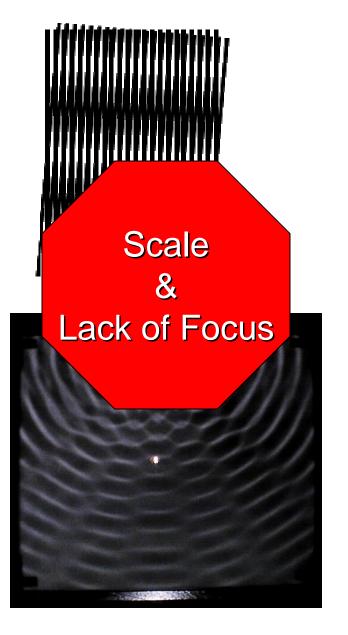
"We now have a situation in which users may discover items in online indexes or online library catalogues then hit a dead end as far as delivery is concerned. This is a dangerous situation for the role of libraries in general. If libraries collectively do not seek to find ways to get around these dead ends others will." Gatenby & Goldner, 2005

Let's get Libraries into user channels



Informal survey of Resource Sharing colleagues from across the states:

- 1. What are the significant problems in Resource Sharing they would like to have solved next year?
- 2. If you were to predict the major changes in Resource Sharing next year, what would they be?
- 3. What are the most successful cooperative strategies your library is involved with?
- 4. What significant threats or risks does Resource Sharing face?



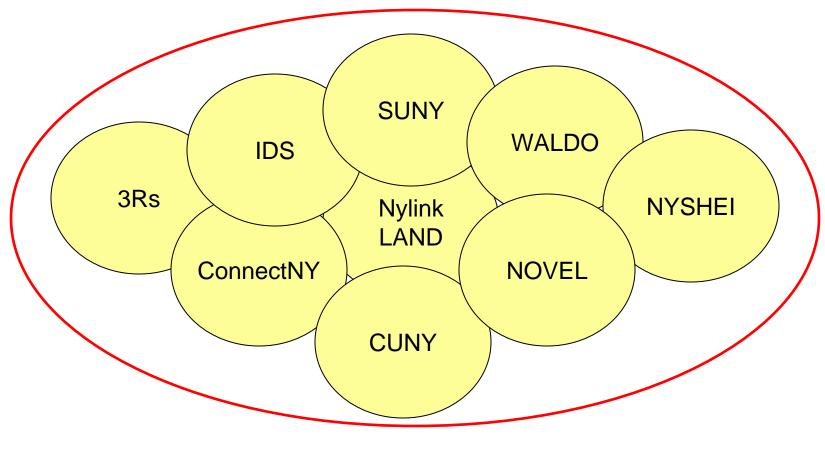
Survey Results: Significant Threats/Risks

- Cost & Budget
- Relevance constantly must prove worth
- Copyright & Licensing "sort of out of our control"
- Promise of Get It is undeliverable; copyright, lending policies, etc.)
- De-professionalization of ILL

Resonant Resource Sharing

Transformation strategies for Resource Sharing

"In physics, **resonance** is the tendency of a system to oscillate at maximum amplitude at a certain frequency." Wikipedia entry for Resonance 5/30/07



What is our transformational strategy?

Statewide...

- Catalog & Borrowing System
- •Library Delivery System
- •Licensing
- •Technical Processing Center
- •Shared Print or Digital Repository...

OK... hold on...

Before you start with statewide planning...

When should a plan be local, statewide, national or even global?

Rethinking Resource Sharing

http://www.rethinkingresourcesharing.org/

1. Restrictions shall only be imposed as necessary by individual institutions with the
goal that the lowest-possible-barriers-to-fulfillment are presented to the user while
maintaining the integrity of the institution's mandate and collections.

2. Library users shall be given appropriate options for delivery format, method of delivery, and fulfillment type, including loan, copy, digital copy, and purchase.

3. Global access to sharable resources shall be encouraged through formal and informal networking agreements with the goal towards lowest-barrier-to-fulfillment.

4. Sharable resources shall include those held in cultural institutions of all sorts: libraries, archives, museums, and the expertise of those employed in such places.

5. Reference services are a vital component to resource sharing and delivery and shall be made readily accessible from any initial "can't supply this" response. No material that is findable should be totally unattainable.

6. Libraries should offer service at a fair price rather than refuse but should strive to achieve services that are not more expensive than commercial services, e.g. bookshops.

7. Library registration should be as easy as signing up for commercial web based services. Everyone can be a library user.

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6	Sharing

Transformed Model: Amazon Service

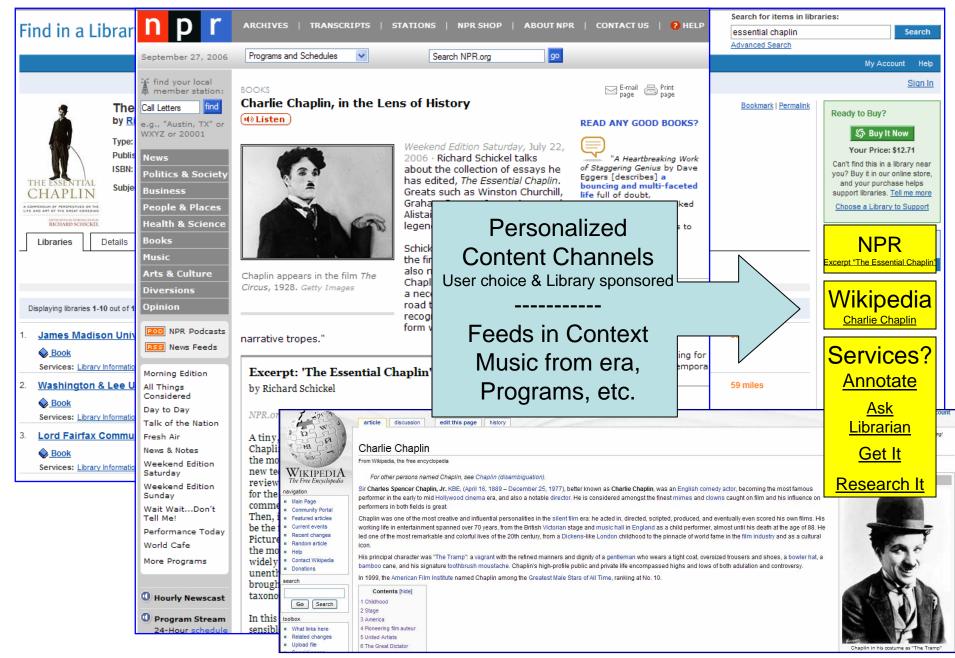
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Syndicate engaging experiences:

Promote context to favorite channels, and encourage high-quality feeds



Strong Partners: remaking of the BBC & Digital Britain



Collections on Demand or **Community Collections** – we need to redefine Library services around programmatic and group or community uses of collections.



WLA Readers Section "Never apologize for what you read"

Home Book Discussion Kits at Wisconsin Libraries	
About This is a list of books that have been used by Wisconsin public libra	
Board their book discussion groups. The Wisconsin public libraries listed agreed to loan out their multiple copies of book discussion titles to o	other
Bibliographies Wisconsin public libraries to be used for their discussion groups. If y have book titles to add to this list, please send them to Trish laccari piaccarino@library.wisc.edu.	
Newsletter	
If you are an individual with a book group who would like to borrow t	
Book books, please contact your local public library to see if they are avait Discussions through Interlibrary Loan.	ilable

What future for Holds, Reserves, **Special Collections Holds, etc?** New Request Systems...

- Group project collections
- Temporary thematic exhibits based on curricula, events, etc.
- Specialized reference/reserve collections in schedulable spaces
- Reserve mobile shelves with • collections for a semester

Interesting reading on mobile collections:

McLean, Edward B., "Shared Mobile Library Collections," College & Research Libraries, January **1968**, p. 27-29.

Transformative Process Question

Can Libraries transform by distributed cooperative leadership?

ALA, ARL, CNI, DLF, ELAG, ICOLC, IFLA, MLA, MLA, SLA, etc.

Alternate Models: Syndication Corporation for Public Broadcasting or GSM Association

<u>CPB</u>

- 1967 created by US Gov't.
- Funds public television & radio programming primarily through PBS, NPR, APM, PRI, etc.
- Awards grants to create programs.

Mission:

"to provide programs and services which inform, enlighten and enrich the public..." <u>http://www.cpb.org/about/cpb/g</u> oals/

<u>GSM</u>

- Global trade assoction of more than 700 GSM mobile phone operators.
- Bridging the Digital Divide, see: <u>http://www.gsmworld.com/digitaldivide/</u> <u>index.shtml</u>

Primary goal:

"to ensure mobile phones & wireless services work globally and are easily accessible, enhancing their value to individual customers and national economies, while creating new business opportunities for operators and their suppliers."

See: Werbach, Kevin, "Syndication: The Emerging Model for Business in the Internet Era," *Harvard Business Review,* May/June 2000.

Create: Corporation for Libraries

Focusing and syndicating Libraries worldwide...

- Provide leadership and infrastructure for a global catalog, digital Library, request service, and communication system. Digital Library example: The European Library <u>www.theeuropeanlibrary.org</u>
- Clearinghouse for large grants that challenge professional associations, Libraries, and funding agencies to initiate large-scale initiatives & effective focused projects.
 - Shared print repositories

Funded by Gov't? Private Foundations?

- National or Global database purchasing
- Joint use or cooperative programming across Library types & regions
- Open access, OpenTextbook & creative commons publishing
- Open source ILS and other Library systems that work with CPL
- Data mining & creation for cooperative collection building, shared user studies, service analysis, etc.
- Promote local specialization on creative labs, research incubators, project management labs, special collections, etc.

Thank You & Questions?

Resources

ACLS's Commission on Cyberinfrastructure for Humanities & Social Sciences, "Our Cultural Commonwealth," <u>http://www.acls.org/cyberinfrastructure/acls.ci.report.pdf</u>

Berry, Leonard, Sandra Lampo, "Teaching an Old Service New Tricks," *Journal of Service Research*, vol. 2 (3), February 2000, p. 265-275.

Brewer, Joseph et al, "Libraries Dealing with the Future Now," *ARL Bimonthly Report 234*, June 2004: <u>http://www.arl.org/newsltr/234/dealing.html</u>

Gatenby, Janifer, "Today's Information Consumer Tapping into International Library Services," <u>http://www.oclcpica.org/content/1400/pdf/NVB_20061107.pdf</u>

Gatenby, Janifer, Matt Goldner, "International sharing and delivery of library resources," <u>http://xtra.emeraldinsight.com/Insight/viewContentItem.do?contentType=Article&hdAction=In</u> <u>khtml&contentId=1529754</u>

Lavoie, Brian, et al., "A Service Framework for Libraries," *D-Lib Magazine*, vol. 12 (7/8) July/August 2006: <u>http://www.dlib.org//dlib/july06/lavoie/07lavoie.html</u>

Murray-Rust, Catherine, "From Failure to Success: Creating Shared Print Repositories," ACRL 12th National Conference

NSF, "Revolutionizing Science & Engineering Through Cyberinfrastructure," 2003.

Werbach, Kevin, "Syndication: The Emerging Model for Business in the Internet Era," *Harvard Business Review,* May/June 2000.