Popular Culture, Technology, and the Future of the Library

(or)

The "Hurrieder" We Go, The "Behinder" We Get

Presentation to the

GOLD/GALILEO Annual Users Group Conference

Athens, Georgia

August 4, 2006

J. Richard Madaus, Ph.D. College Center for Library Automation "We are not who we are by the talents and abilities we possess. We are who we are by the choices we make."

-- Albus Dumbledore

Before we start – let's mention the world of books

They are still here

There will never be enough budget to buy all the ones we need

Books sales continue to grow

Book sales data from the Book Industry Study Group (BISG)

NET revenue – U. S. Book Publishers

- ✓ 2004 \$32.5 Billion
- ✓ 2005 \$34.6 Billion
- ✓ Projected to top \$40 Billion by 2010

Important Questions for 2006 – 2010

- So you've migrated to a "next generation" library management system – now what?
- How do you find the "right" place for your library in the ubiquitous and ever-changing world of the internet?
- How do we continue to invest well in library cooperation and avoid being "cooperated on"?

What's really involved in TAKING IT TO THE NEXT LEVEL?

Let the adventure begin.....



Cultural Trends versus Library Realities...

- Let's take a few moments to explore the speed of trends in consumer focused technologies and cultural behavior
- How many of us are planning services for these users?

Slide from a 2001 presentation:

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2) Done	In June, Nokia, Ericsson and Psion announced that have conditionally agreed to form a new joint venture called <u>Symbian</u> . This venture is further strengthened by the support of Motorola who have signed a Memorandum of Understanding to join Symbian.	💌

Slide from 2004 Presentation



And in September 2005 ...



Then one month later...

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jobs	"Originally, the districts applied for a one-time grant, but state instructional technology guidelines allowed them to reapply if the district was willing to mentor another district in the use of technology," said Lynn Lary, instructional technology specialist at Lane Education Service District, which supports 16							5				
	tact us			school	districts.							
_	out Pa	Intent on extending their grants, Lary and two other grant recipients, Colt Gill, assistant superintendent of South Lane School District, and Todd Hamilton, instructional technology specialist at Eugene School District, got to work collaborating on a mentoring and training program. That was three years ago. Today, the program has generated district partnerships throughout the state and has resulted in the formation of the Northwest Handheld Integration Project.										
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The marketplace expands and converges at the same time...



Everybody Needs a Sidekick II Web offer: \$100.00 off plus free shipping



Choose a plan to go with your Sidekick II

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- E-mail
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- > Product details
- >> Play demo

















Understanding the Speed of Technology Trends

As the "gizmos" keep changing, entirely new markets and ways of doing things become commonplace almost overnight !





An Interesting Experiment...



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Stop and think about this...

- The 57,000,000 MARC records of OCLC
 WorldCat will fit in 24 Gigabytes of a 40
 Gig Ipod with a lot of room left over
 - (It's actually been done according to Gary Houk of OCLC)
- So what's next?





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PC Capacity isn't Standing Still Either



Another slide from a 2001 presentation:



DATA STICK MEMORY PRODUCTS

Centon's Data Sticks conveniently hold up to 128MB of data and are perfect for saving pictures, games, videos, MP3 music, and anything else wanted on the go. Lightweight, extremely compact, energy efficient and easy to use Centon's Data Sticks are an ideal way to store information in today's portable world.



<u>Product Highlights & Specifications</u> Data Stick Driver & Driver Installation Instructions

DENSITY	CENTON PART#				
32MB	32MBPENDRIVE				
64MB	64MBPENDRIVE				
128MB	128MBPENDRIVE				











Moving beyond the simple I-Pod world...

- Mobile devices are converging on and within the overall information marketplace
- It isn't just Apple computer that is in this business and there are already billions being made...

A slide from a 2003 presentation



Same Web site -2006


Same Web site – 2006

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Another I-Pod Competitor...



Award winning I-Pod Competitor...



The real move to portable media...



THIS WEEK 2006 Web Site

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TIVO jumps in...



What is TiVo?

The TiVo box

TiVo service

TV shows to go

Mobile devices

Summer of Mobility Giveaway

The TiVo advantage

Demo TiVo

TiVo newsletters

What do you need?

Testimonials & reviews

FAQs

Buy TiVo

Setup & Support

I Have TiVo!

About TiVo Inc.

Planning a road trip? Don't miss your favorite TV shows

Now, with <u>TiVoToGo™ transfers</u>, you can transfer your favorite recordings from your TiVo Series2™ box to your computer or mobile devices so you can watch them anywhere.

🖉 Windows Mobile

With Windows Mobile-based Portable Media Centers watch your favorite movies and television, rock out to the latest hits, or scan through photos, all while working or playing. Just download any digital entertainment you store on your computer and watch it later on your Portable Media Center. It's entertainment made easy, anytime, anywhere. Choices that satisfy all your entertainment needs. For more information, <u>click here</u>.

Creative Zen



Samsung Yepp YH-999



iriver PMC-120



DISH-TV won't be left out...



More and more mobility...



Not to mention...





Mobile computing from Sony...



Notebooks

Subnotebooks OQO 01+ Samsung Q1 Panasonic R4 Samsung Q30+ Fujitsu T70R Motion LS800 Panasonic T4 Sony U Accessories view all Performance

Gadgets

Digital Camera USB Storage Portable Media Cellular & PDA Fashion & Design Robots Video Games PC accessories

Special Order CloseOut-Sales

service

Warranty



main specs pricing gallery

The surreal 1.2 pound Sony Vaio U50 is the ultimate nextgeneration, super-portable PC. Indeed, Sony designed the Vaio U50 with constant mobility in mind. It is the latest in the tremendously successful line of always-carry notebooks from Sony, designated the U-series. Sony makes only limited quantities of the U-series. The three From the incredibly popular Useries, the 1.2 pound Sony Vaio US0 is the lightest PC on the market Among its many features: multiple quick-launch buttons on its glowing panel, transflective touchscreen TFT and fin-shaped stylus, pointing stick, scrolling control, external foldable keyboard, corded remote control, 900mhz processor, 20gb HDD, Windows XP, and much more

Additional Links:

Contact - Warranty - Support

- ? Ask about this item
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buy



Windows based portable media...





Stop and think about this

- If WorldCat will fit in your pocket and everything is connected to everything else --- what are the implications for libraries ?
- Is this a reality for the far future? Or only a few moments from yesterday!

Now, a moment to ponder...

- I believe that we are not that far from a TERABYTE (1000 Gig) in the pocket! (probably within five years)
- How soon can we start planning library service for PetaByte (1000 TeraBytes) resources in the pocket? (probably within ten years)
- However, we probably don't need to think about ExaBytes for a couple of years yet.

Or, maybe ExaBytes will be here pretty quickly

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But wait ---Let's talk a little more about research...

- Have you looked closely at your versions of Windows Office products?
- Have you found the < RESEARCH> button in Word 2003?
- Let's take a quick peek...



their most radical predictions have been eclipsed. More recently, Michael Dertouzos's

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Chapter 2

Information Inundation: Is There Too Much To Know To Know Anything For Sure?

We are clearly living in an age of information. Facts, figures, and data fuel everything going on around us. From piles of unread books by our bedsides to the ever-expanding Internet, the predicted "information explosion" may now have even given way to information overload. There is so much information available, yet many times we have difficulty finding just the facts we need. It is as if we are drowning in a sea of data and simultaneously thirsting for a drink of knowledge, not to mention finding thirst-quenching wisdom.

Noted authors such as Alvin Toeffler and John Naisbett in the 1970's and 80's laid a well-documented prophecy of expanding worlds of information. It appears that even their most radical predictions have been eclipsed. More recently, Michael Dertouzos's



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Capitolo 2 Inundation Delle Informazioni: È Ci Troppo Da sapere Per conoscere Qualche cosa Per Sicuro?

Siamo chiaramente vivendo in un'età delle informazioni. Fatti, figure e combustibile di dati tutto che accende intorno noi.Dai mucchi di unread prenota dai nostri lati del letto a il Internet d'espansione, "l'esplosione delle informazioni" prevista può ora avere livelli condotto a sovraccarico delle informazioni. Ci sono così tanto le informazioni disponibili, tuttavia molte volte abbiamo difficoltà che troviamo appena i fatti che abbiamo bisogno di È come se stiamo annegandosi in un mare dei dati e simultaneamente thirsting per una bevanda di conoscenza, non accennare trovare saggezza dissetante. Autori celebri quale Alvin Toeffler e John Naisbett negli anni 70 e negli anni 80 hanno posto un ben documentato prophecy dei mondi d'espansione delle informazioni. Sembra che persino il loro la maggior parte le previsioni radicali sono state offuscate.Più recentemente, Michael Dertouzos libro, *Che cosa Sarà: Come il nuovo mondo delle informazioni cambierà le nostre vite* e Nicholas Negroponte *Essendo Digital* hanno dato ancora l'importanza più grande sul mondo digitale

And if we are going to talk about research...

We must mention the impact of



Ten things GOOGLE has found to be true

- 1. Focus on the user and all else will follow.
- 2. It's best to do one thing really, really well.
- 3. Fast is better than slow.
- 4. Democracy on the web works.
- 5. You don't need to be at your desk to need an answer.

Ten things GOOGLE has found to be true

- 6. You can make money without doing evil.
- 7. There's always more information out there.
- 8. The need for information crosses all borders.
- 9. You can be serious without a suit.
- 10. Great just isn't good enough.

The Library place in all of this...

- Can we in the library world create a powerful ten items list like Google?
- If we create such a list, what would we do with it?

An Interesting Comparison:

OCLC exists to further access to the world's information and reduce library costs by offering services for libraries and their users.

Google's mission is to <u>organize the</u> <u>world's information</u> and make it <u>universally accessible and useful</u>.



- The Successor(s) to Google?
- Faceted Searching Approaches?
- Clustered Searching Approaches?
- Collaborative User based site building?











Big trends on the way...

- User based meta-tagging
- Personalization moves to "steriod" levels
- Social software
- Pod casting Pod casting Pod casting














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Important Trends for 2006 -Some Core Things That Really Do Matter

- Realizing that the very latest "gizmos" will continue to change every few months
- Realizing that it's not about the technology, it's about the people! And the way they live
- Beginning to take *REAL* action on the critical need to move past the illusion of site bound librarianship



OCLC *Marketplace Trends 2003* tell us that...

Information may now be viewed as being "good enough" by the user whether it is "THE" answer or not –

the user may no longer care about the level of authenticity, if the answer provided is "good enough" from their perspective.

Marketplace Trends 2006

- The 2003 OCLC Environmental Scan is now a historical document
- Oh, by the way, that means it's old and in the past !
- So what should we expect in the 2008 Environmental Scan?

But Wait --- there's more!!!...

Perceptions of Libraries	and Information Resources (2005) [OCLC - Membership Reports] - Microsoft Internet Explorer	_ B ×	t
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Libraries: How They Stack Up	Resources (2005) summarizes findings of an international study on information-seeking habits and preferences.	other reports and notes as they are published	
Five-Year Information Format Trends (2003)	With extensive input from hundreds of librarians and OCLC staff, the OCLC Market Research team developed a project and commissioned Harris Interactive Inc. to survey a representative sample of information consumers. In June of 2005, we collected over 3,300 responses from information consumers in Australia, Canada, India, Singapore, the United Kingdom and the United States.	 Order a print publication of the report Download the complete report without registering (PDF; 4.4mb) Download individual sections of the report without registering: Introduction (PDF; 706kb) Part 1: Libraries and Information SourcesUse, Familiarity and Favorability (PDF; 1.5mb) 	
	The Perceptions report provides the findings and responses from the online survey in an effort to learn more about:	 Part 2: Using the LibraryIn Person and Online (PDF; 1.2mb) Part 3: The Library Brand (PDF; 891kb) 	

 Part 4: Respondents' Advice to Libraries (PDF; 284kb)

Part 5: Libraries--A "Universal"

- Library use
- · Awareness and use of library electronic resources



Perceptions of Libraries and Information Resources

Perceptions of Libraries and Information Resources (2005)

The findings indicate that information consumers view libraries as places to borrow print books, but they are unaware of the rich electronic content they can access through libraries. Even though information consumers make limited use of these resources, they continue to trust libraries as reliable sources of information.

How much do WE *Allow* the new technologies to change our services?

- How much do we *really* know about the information seeking/using habits of the popular culture in the world around us?
- How much of popular cultural behavior has *real* implications for library services?
- And what actions do we take based on what we think we now know?



Table 5: Comparing online information searching to library use			
Use internet more than library	73%		
Use Internet and library about the same	16%		
Use Internet less than library	9%		
Don't know	2%		
<i>Source: Pew Internet & American Life Project College Students</i> <i>Survey, n=1032. Margin of error is</i> ±3.5%.			

Jones, Steve. The Internet Goes to College: How students are living in the future with today's technology. Pew Internet & American Life Project, Washington, D.C., 2002.



Total reference transactions



Association of Research Libraries www.arl.org

Total reference transactions



Association of Research Libraries www.arl.org

Total circulation transactions



Association of Research Libraries www.arl.org

Total circulation transactions



Association of Research Libraries www.arl.org

Yet, at the same time public library use is going through the roof

ALA Fact Sheet 6: Public Library Use - Microsoft Internet Explorer File Edit View Favorites Tools Help Image: Stop Stop Refresh Home Search Favorites History Mail Vaddress Image: Tools Help Search Favorites History Mail vaddress Image: http://www.ala.org/Template.cfm?Section=libraryfactsheet&Template=/ContentManagement/ContentDisplay.cfm Image: Search Favorites Mail VBAGE REPORTED BY LIBRARIES USAGE REPORTED BY LIBRARIES Image: Search Favorites Image: Search Favorites Stop	
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Librarians have long believed that when the economy goes down, public library use goes up. In February 2002, ALA contracted with the University of Illinois Library Research Center (LRC) to study library use over the last five years, at the twenty-five U.S. public libraries serving populations of 1 million or more. Using data from eighteen of	
Lithogo Targo Librarios, the study found that singulation has ingroased	
📄 👘 🖉 Internet	

E-Resource use vs. OPAC use --Florida Community Colleges



Ten Years of Activity: *Print vs. Electronic*



Taking a closer look at the users in the overall Infomarket

- How can we best serve users that seek information through Google as a starting point?
- How many of us start with Google?
- How many of us are Wikipedia users?
- Where do we fit?
- ♦ Where CAN we fit?

When digital immigrants (that's us folks) use a PC, the main focus is e-mail, word processing, and a bit of Web searching



 When digital natives (the "Millennials") use internet capable devices (PC's, Cell phones, PDA's etc) they are "connected to the world"

- it is a lifestyle

formats don't matter – just more files to be manipulated

- Now, One more time for clarity For "Millennials":
 - It's not a book
 - It's not a picture
 - It's not a video
 - It's not an CD audio
 - It's not a document

It's JUST ANOTHER FILE!

- How do libraries become relevant for "Millennials"?
- We must realize that:
 - It's not an e-book
 - It's not a journal
 - It's not an online database
 - It's not a newspaper
- It's JUST ANOTHER SCREEN!

The Library place in all of this...

- We have a lot to offer, but we must be noticed first !
- Can we move fast enough?
- And how do we do any of this with no additional resources?

Traditional library roles in the Infomarket still remain

- Access (proprietary and free)
- Assistance (off-site and in-person)

Instruction

Collection Building (print and electronic)

Multiple Foundations of Information Resources Supporting Library Services



New implications *demanding* our attention

- Information is no longer site bound
- Information support services (like libraries) have been traditionally site bound
- The more that becomes available electronically, the more that is expected to be available already
- The library role in the overall information marketplace is increasingly less secure

New implications *demanding* our attention

- A Website is not enough we must begin establishing a lifestyle presence for libraries in "Webspace"
- The PC democratized data processing, The Internet is "de-institutionalizing" information

New implications *demanding* our attention

- Why do we think that our users want information in the containers we provide?
- We need to understand that information "foraging" is a valid lifestyle practiced by most of our culture?
- When people think of the Internet as a lifestyle, do they still think of the library as a place?

Points for libraries to consider in the changing Infomarket

- Providing service to users you may never see
- Thinking in terms of "market share"
- Collaboration being the long term key for library survival

Points for libraries to consider in the changing infomarket

- Collaborating for digitization projects
- Collaborating for online reference services
- Collaborating to create large scale online collections of e-content
- Collaborating for harvesting and meta-tagging projects
- Collaborating to train for the future
- Collaborating for all the reasons that libraries have always been the models of cooperation

Points for libraries to consider in the changing infomarket

- How many of the following do you regularly use?
- And similarly how many of your users live in this space?







How many of your staff use this?

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Podcasting

A new podcast (Internet "radio" program): LibVibe Each edition, approximately five minutes long, will feature a review of library news headlines. I've downloaded two shows, but have yet to listen to them.

Remember, the <u>Lunar and</u> <u>Planetary Institute</u> (LPI) library (MPOW) has a weekly show. We have just hit episode 30. It covers news about the library and scholarly communication and publishing that may be of interest to our users.

<u>Podcasting</u>



A challenge from youth?

Current teen-age slang term: "TMI"

Meaning "Too Much Information" – you are telling me more than I want to know. Please stop.

"It is not the strongest of the species that survives, nor is it the most intelligent, but those who are most responsive to change."

-- Charles Darwin



-- Cathy De Rosa

January 26, 2005

Now it's up to you to do the really hard work – thinking and planning for our future...

thank you

for your interest

and attention.