

# Future of Cultural Heritage Institutions

- Programs and Research agenda

Jim Michalko VP, RLG Programs

ARL Fellows
31 October 2007

### Cultural repositories

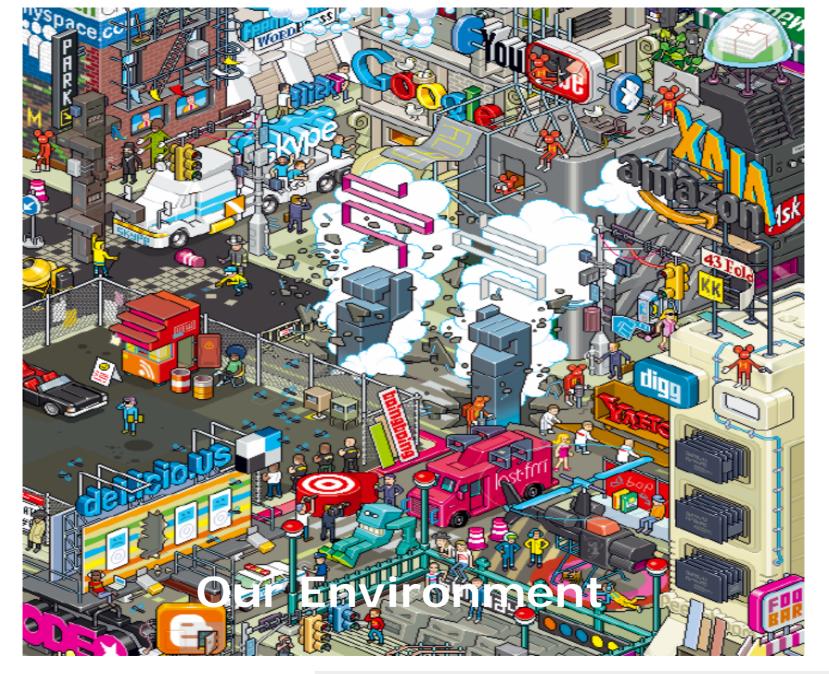
#### - the circumstances

- Libraries, archives, museums
  - Altered service environment
- Diminished value proposition
  - Must aggregate presence
  - Must enter network
  - Must alter investment patterns
- Two perspectives
  - Information consumer behaviour
  - Institution operating environment

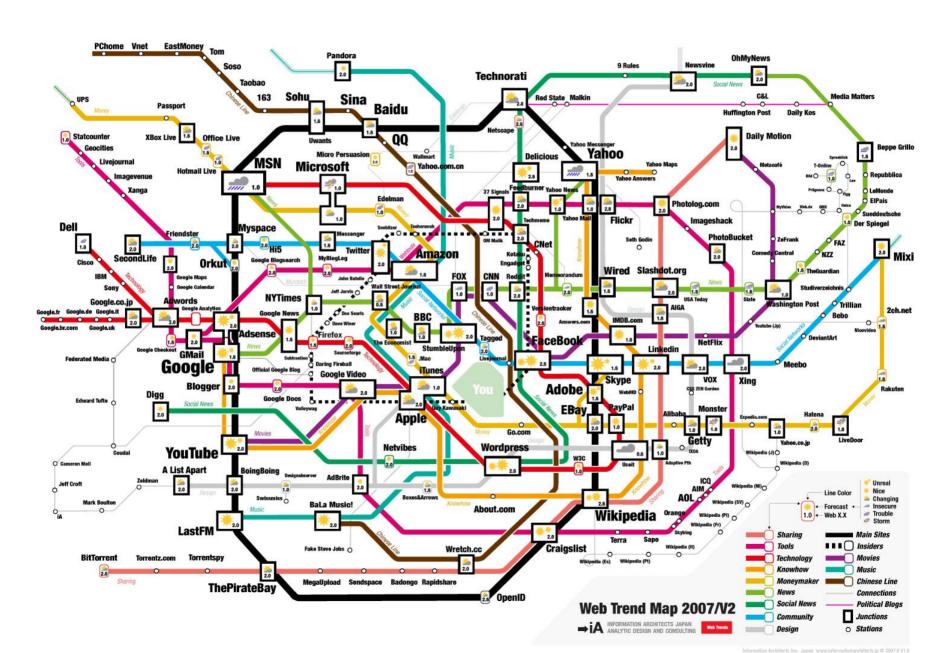
#### Information consumer behavior

- Information consumer behaviour
  - Network-level aggregation of supply and demand
  - Patterns of learning, research, information production and consumption
  - Personal collections and data reproduction
  - Customer relation management



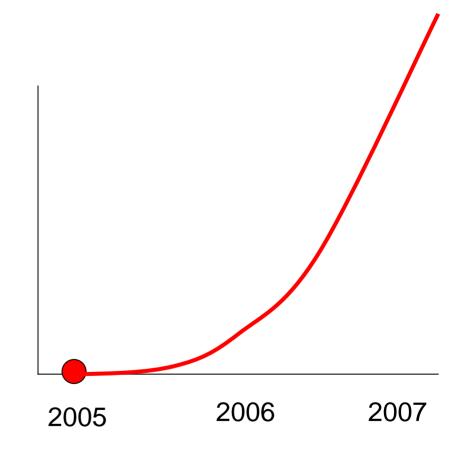


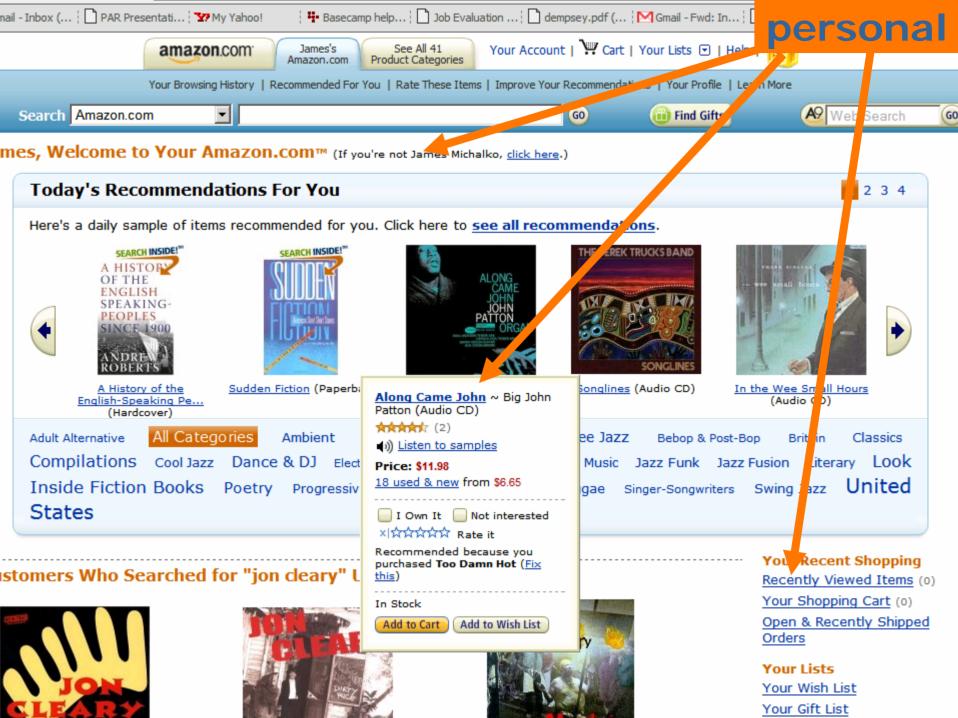
### The 200 most successful web sites



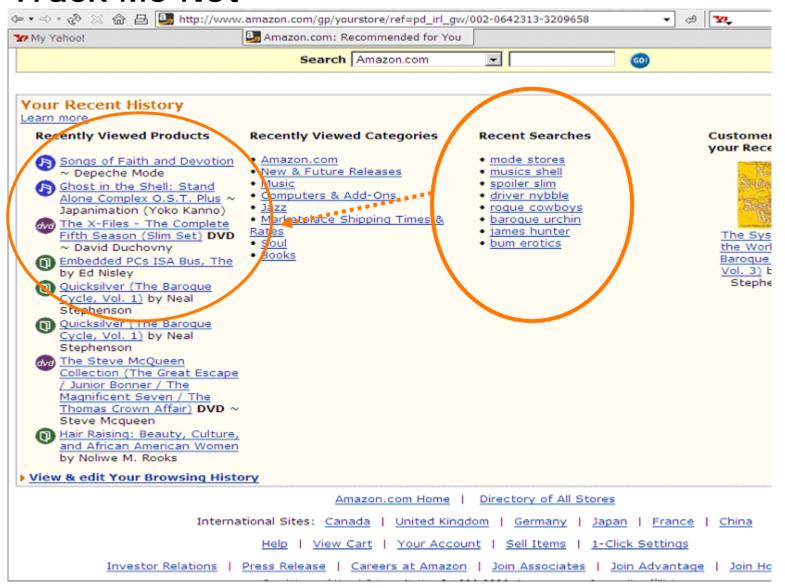
### Social networking - explosion





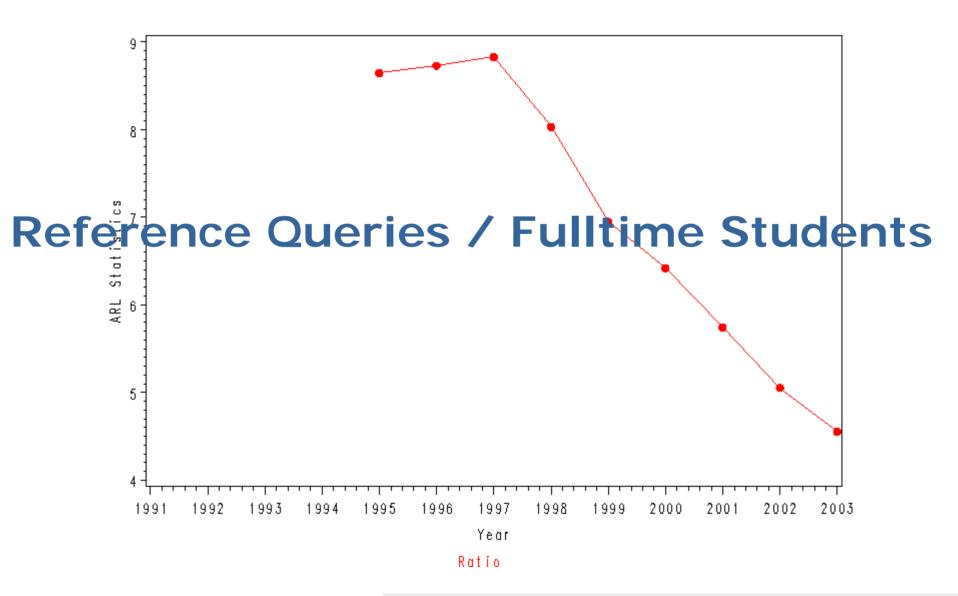


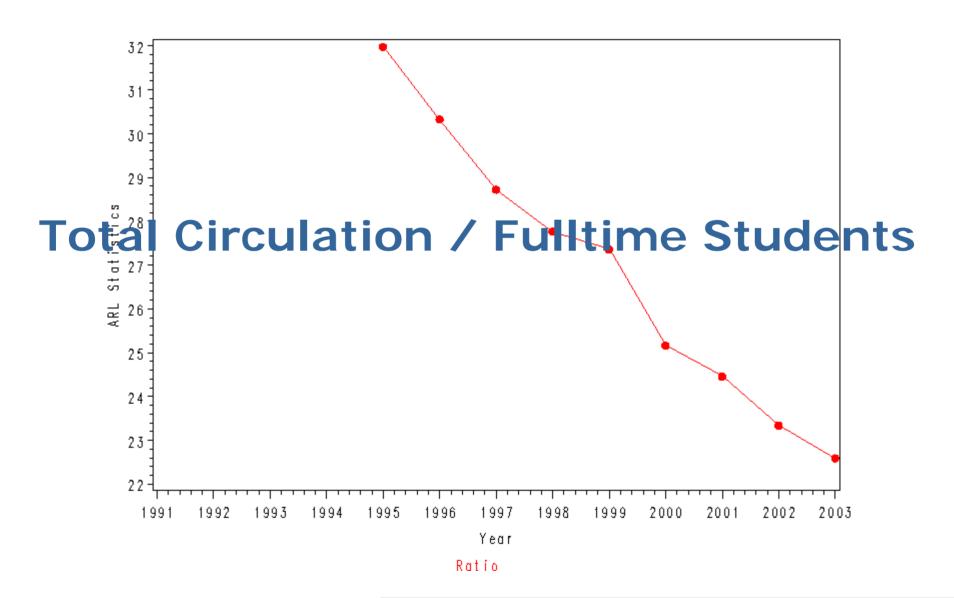
#### Track Me Not



### Institution operating environment

- Institution operating environment
  - Agile, rich new competitors
  - Library budget pressure
  - Service fragmentation
  - Redundant effort
- Barriers to progress
  - Process standardization
  - Resistance to outsourcing
  - One-dimensional client relations
- What conclusions do we draw?

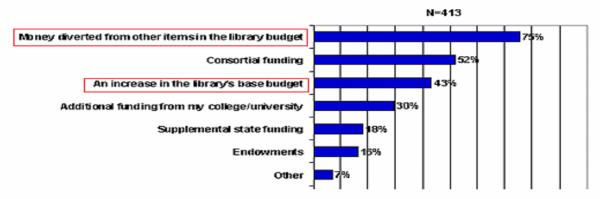




### **Budget pressures**

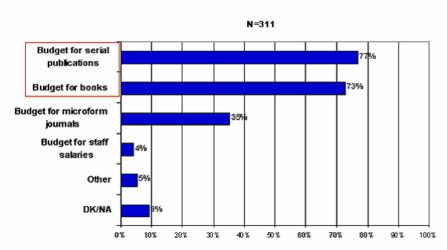
#### **Funding Sources for Electronic Resources**

What funding sources are used to pay for electronic resources at your library? (check all that apply). Asked only of those whose roles include 'Library Administrator' or 'Collection Development'.



#### Money is Diverted From:

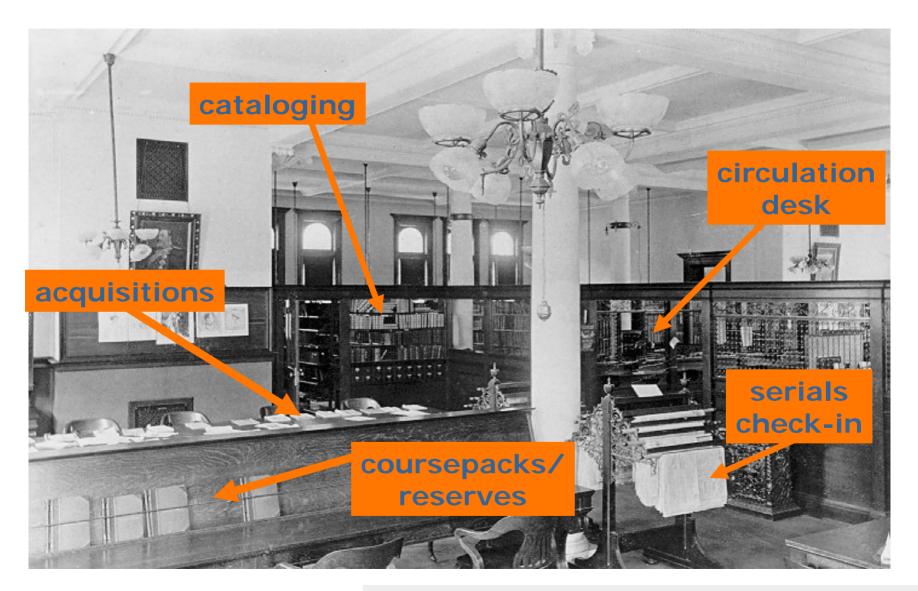
Where is the money diverted from? (check all that apply). (Asked only of those who specified that money for electronic resources came from other items in the library budget.)



In 2004 ARL libraries spent the lion's share of \$665 million on books and serials and \$239 million on technical services labor

Source: Columbia University Library, Librarian Online Survey, 2002

### Legacy service management



### Academic collections - implications

- Change in physical access
- Emphasis on disclosure and digital surrogates
- Mission Trustworthy and Authoritative
  - Tools and Services
  - Redundant physical collections
  - Purchase or provision of physical materials on demand
  - Disclosure as a major investment and activity
  - Collecting unique, rare, special, and non-traditional
  - Reorganization of library staffing effort and types of staff expertise

### RLG Programs - response

- Disruption, uncertainty, mandated change
   = renewed, revivified collaborative action
- The overall aim is to enhance the ways in which libraries, archives and museums create value in the research and learning process.
- The program areas where we have chosen to focus were conditioned by
  - the specific research focus of the RLG Partner institutions
  - the skills and capacities resident in the division,
  - the mission of the OCLC enterprise in which the division is situated, and
  - the ability to engage issues over a multi-year horizon.

### Criteria for Programs and projects

- Eliminates a redundant effort or process
- Affects system-wide behaviors
- Creates shared capacity
- Changes community economics
- Cuts across cultural sectors
- Transforms something (process, standard, etc.) into a routine
- Translates something (process, standard, etc.) into community terms
- Responds to a known and shared Partner need
- Provides opportunities for Partner engagement
- Total Programs and Research investment does not substantially exceed community benefit

### OCLC Programs & Research Themes



Managing the Collective Collection



Renovating Descriptive & Organizing Practices



Modeling New Service Infrastructure



Supporting New Modes of Research, Teaching & Learning





Measurements & Behaviors

Work agenda flows from ...

... our view of the environment

.. and the areas we can have an impact





Cultural Heritage - Futures





Supporting New Modes of Research, Teaching & Learning





Measurements & Behaviors

Supporting new modes of research, teaching and learning

## Research and learning behaviors change

Then: Final 'product': publish and archive

Now: Process generates reusable outputs

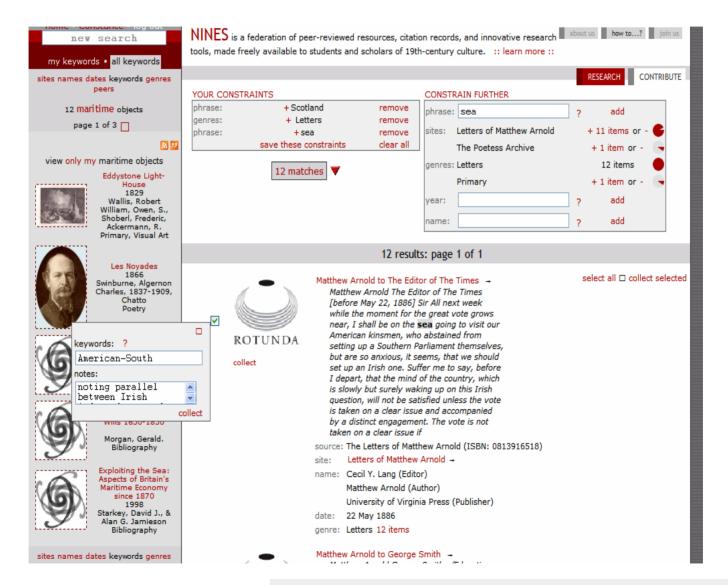
E.g. data sets, learning materials, blog commenta

### New ways of consuming resources

What is the record?

### Supporting new modes of research, teaching and learning

- The changing scholarly record
- Web archive collections
- Large text aggregations
- Personal research collections
- Organizational and service relationships libraries, archives and museums



#### MUSEUMS & COLLECTIONS



Anatomy Museum



Pathology & Forensic Medicine Collection



Marischal Museum



Marischal Virtual Museum



Geological Collections



Natural Philosophy Collection



University Herbarium



Zoology Museum

#### HISTORIC COLLECTIONS



welcome









ARIES & ARCHIVES

DIGITAL RESOURCES

MUSEUMS

ions: Acts of Union and Jacobite Virtuosi in Marischal Museum.

King's College · Aberdeen · AB24 3SW · Tel: +44(0)1224 272598 · Email: speclib@abdn.ac.uk



### Supporting new modes of research, teaching and learning

- The changing scholarly record
- Web archive collections
- Large text aggregations
- Personal research collections
- Organizational and service relationships libraries, archives and museums

# Managing the collection

### Optimized for a pre-network environment

Mass digitization

Off site storage

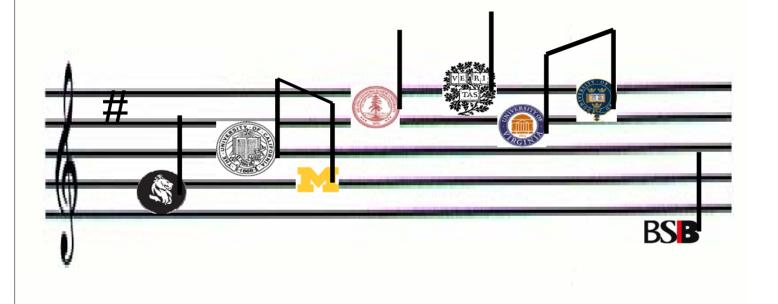
Deep resource sharing

Preservation of the scholarly record

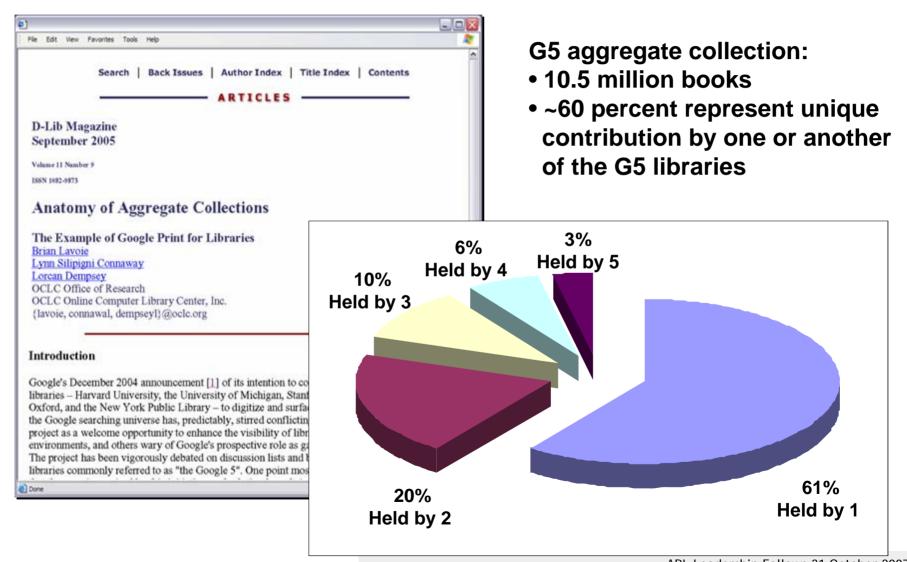
### Managing the Collective Collection

- Shared print collections
- Harmonizing digitization
- Data-mining for management intelligence and new services
- Collection sharing beyond libraries

### Harmonizing Digitization



#### Rareness is common ... in the G5



### Managing the Collective Collection

- Shared print collections
- Harmonizing digitization
- Data-mining for management intelligence and new services
- Collection sharing beyond libraries

# Renovating descriptive and organizing practices

### LC working group

Data silos vs data services

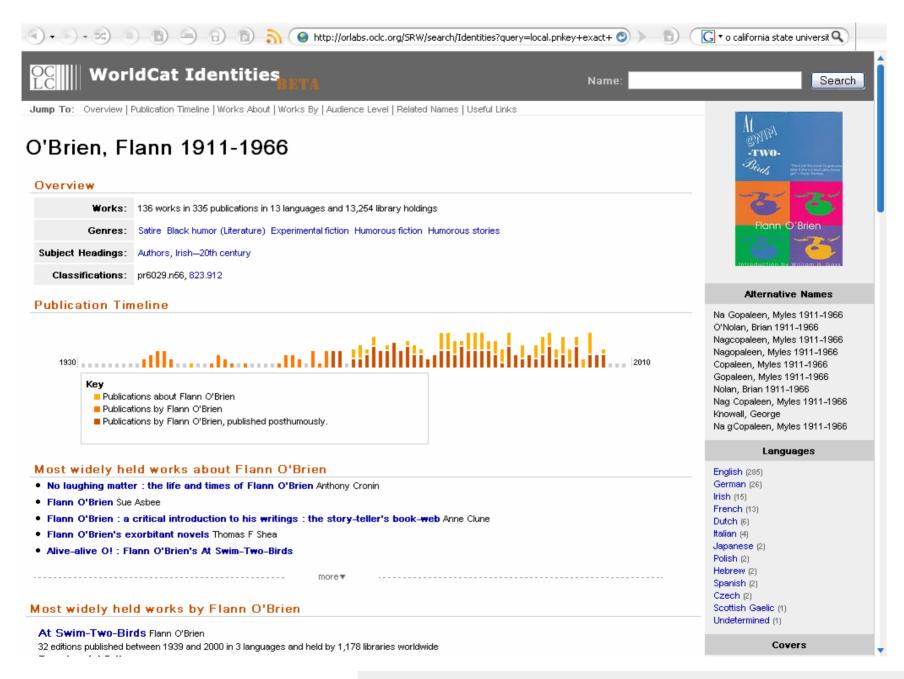
Releasing value on the web

Mixing metadata modes

Workflow and costs

### Renovating Descriptive and Organizing Practices

- Changing metadata creation processes
- Deliver tools and services to support efficient metadata processes
- Leveraging vocabularies for effective discovery



#### Top Black humor (Literature) Identities

Aldiss Afrau Allen Amis Antrim Ardagh Astley Baldwin Banville Beattie Bellow Benabid Berger Billson Block Born Bradbury Bradley
Brautigan Breslin Bromfield Browne Burroughs Cardwell Cheever Condon Coupland Covino Crews De Dexter
Dickens Dixon Dobyns Echenoz Egolf Everett Flook Frisch Gates Goldsmith Goncharov Graham Grass Gray
Green Greene Harrison Harsch Highsmith Huxley Janeway Janowitz Juliavits Kelman kim Kundera Lennon Lethem Leyner
Lipman Louie Lupica MacFarquhar Mantel McCabe McInerney McMurtry Miller Mills Nicholson O'Brien O'Connor
O'Nan Parks Pelevin Pierre Polizzotti Purdy Queneau Richler Roberts Russo Sillitoe simon Southern Stoppard strozier Tanizaki
Treichel Valdés Welsh Wenzel Wickham Willett Wilson Wilson Womack Woodnell Yglesias

#### All Black humor (Literature) Identities

1.	Aldiss, Brian Wilson	76. De Bernières, Louis.	151.	Holland, Wayne. 2	26.	McHale, Tom.	301.	Rothmann, Ralf.
2.	Alfau, Felipe	77. De la Bere, Imogen.	152.	Hollander, Kurt. 2	27.	McInerney, Jay.	302.	Royle, Dave.
3.	Allen, Edward	78. Dexter, Pete	153.	Holmes, Andrew. 2	28.	McInerney-Whiteford, Merry.	303.	Russo, Richard
4.	Allen, Jack	79. Dickens, Charles	154.	Home, Stewart 2	229.	McLaren, John	304.	Sacks, Jen.
5.	Alper, Debi.	80. Dickens, Charles	155.	Horsfall, Paul. 2	230.	McLaren, John.	305.	Sáenz, Miguel.
6.	Amis, Martin.	81. Dixon, Stephen	156.	Houghton, Gordon. 2	231.	McMurtry, Larry.	306.	Sahgal, Ajay.
7.	Antrim, Donald.	82. Dobyns, Stephen	157.	Hubert, Jocelyne. 2	232.	McNeil, Jean.	307.	Sallis, James

#### Powerhouse Museum Collection Search 2.2

SEARCH   BROWSE CATEGORIES	BROWSE USER KEYWORDS/TAGS	ABOUT
	search	ategory history:
show objects with images only		

#### Browse user keywords and tags

#### Popular user keywords (randomised)

victorian button up v.s 2221 1808 eagle magnetic coll pepperbox d3590 salter trade spring balance no 50t buffaloes 2160 4708 156

archaeology scooter angels WOlf cannons **yellow** hull she goes to the fancy dress ball pen sleeves "rawleighs" bottle cascade calculator v-back fetish petals melbourne cup cloche

WOOD canadian sesquicentenary weird guitar synthetic bundaberg jug with c shaped handle fibreglass poo pattern chelsea marie allen queensland bananas accordion curved guide old looking glass broach at top cigarettes speed black silk hat stocking nantgarw hankies norfolk island commemorative stamps

bobbin lace features veronica bell trilby lace fish creamers pilsener embroidered panel knights deigra:britt:omn:rex strategy

boots sheik Sk11 lemon mens jacket nigel lofthouse yankee watermymph vignette cedar board table francis burke 1937 shalimar manufacturing fabric cyl pl 3055 1943 747-400 map of australia dog collars Keys drinwade oriental beer labels statue 8260 nelson current value ansonia clock co. pink lustre buttons 11/25 penn-peer no.109 baitcasting reel d.6308 royals

#### About user keywords and 'tags'

User keywords, or 'tags', are words added to object records by other users to enhance their discovery by others.

Sometimes museums describe objects in language that is highly specialist and user added keywords are useful in bridging the 'semantic gap' between the language of the museum and that of the user.

The box on the left is a randomised listing of 150 of these keywords that have been added by users of the site. The larger the word or phrase, the more objects it has been applied to.

Click on a word to find the objects that are associated with it.

Please note that this is an experimental way of navigating the collection and that the 'accuracy' of these keywords is not verified by the Museum. We recommend their use primarily as exploration and

### Renovating Descriptive and Organizing Practices

- Changing metadata creation processes
- Deliver tools and services to support efficient metadata processes
- Leveraging vocabularies for effective discovery

Modeling new services infrastructures

## Modeling New Service Infrastructures

- Advance service framework work
- Participate in and/or lead efforts to gather requirements of and specifications for new service areas
- Build prototypes/software to showcase and demonstrate



# A free service for all libraries and consortia and archives

One profile, one place where data about your institution and its services can be maintained. easily referenced, and syndicated across the Web

Learn more about WorldCat Registry

1 Build it FREE

Load up your profile with information

Share it FREE Give access to vendors, consortium partners, funding bodies and others

Update it FREE Keep your profile current so workflows you've streamlined keep flowing

#### First time here?

#### Get started!

Search for your institution to see if its Registry profile already exists

Search

Advanced search

Already have a Registry profile for your institution?

#### Sign In

Create a User Account

#### For consortium managers

WorldCat Registry lets you simplify the administration of your group and the sharing of configuration data. Learn more »

You: Sign In | Create a User Account | My Account

Profiles: Create a New Profile | Authorize Me to Manage a Profile

Help: Frequently Asked Questions

#### For content and service vendors

WorldCat Registry can provide unambiguous identification of institutions and a single source of up-to-date customer data. Learn more »

## Modeling New Service Infrastructures

- Advance service framework work
- Participate in and/or lead efforts to gather requirements of and specifications for new service areas
- Build prototypes/software to showcase and demonstrate

# Architecture & standards

### **Architecture and Standards**

- Lead and/or participate in both formal and informal 'standards' efforts representing library, archive and museum interests
- Provide standards infrastructure: registries (OpenURL, info-URI, DC, ...)

# Measurement & behaviors

### Measurements and Behaviors

- Gain a better understanding of end-user behaviors
- Design a coherent program for usercentered analyses of evolving services

- Virtual reference
- Users of information







& Behaviors