

# Shaping Our Space: Envisioning the New Research Library

塑造我们的空间：未来的新型学术图书馆

Joseph J. Branin

Director of Libraries, the Ohio State University

Branin.1@osu.edu

October 2008

*A great university: a great library*







# No Shortage of Predictions

## 多少新鲜事，尽在预期中

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- The overall market for entertainment and information is inexorably going digital. One day, most music, movies, and perhaps even printed words will be sent as bits over the Internet instead of in bulky boxes. “Amazon Accelerates Its Move to Digital,” Brad Stone, *NYTimes*, April 7, 2008
- The rush to digitize the written record is one of a number of critical moments in the long saga of our drive to accumulate, store, and retrieve information efficiently. It will result not in the infotopia that the prophets conjure up but in one in a long series of new information ecologies, all of them challenging, in which readers, writers, and producers of text have learned to survive. “*Future Reading: Digitization and Its Discontents*,” Anthony Grafton, *The New Yorker*, November 5, 2007

# Infotopia or Dystopia?

## 信息乌托邦？ 信息敌托邦？

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- A recent article in my local newspaper about libraries “efforts to woo teens,” caught my eye. Apparently, the works of such luminaries as Rudyard Kipling and Mark Twain have been replaced with the Xbox and Nintendo Wii. It is little wonder that our nation’s literacy rate continues to decline. “Our Public Libraries Are Being Turned Into Video Arcades,” Dave Gibson, *American Chronicle*, March 19, 2008
- It looks like the ‘transformation’ we seek for libraries and librarianship may turn out to be more of a ‘deskilling’ of library jobs than an enhancement of the profession. More and more working librarians are ‘managed’ by a new breed of library leaders. Their model for the new public library is that dehumanized supermarket or the chaotic disorganization of the largest Barnes & Noble. “Blatant Berry: The Vanishing Librarians,” John Berry III, *Library Journal*, February 15, 2008

# Recent Environmental Scans and User Studies

## 最近的环境调查和用户研究

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Where Electronic Information Searches  
Begin—  
by College Students across all Regions

Search Engine: 89%  
Library Website: 2%  
E-mail: 1%  
Online database: 2%  
Topic-specific Web sites: 1%

OCLC 2005



Google Generation

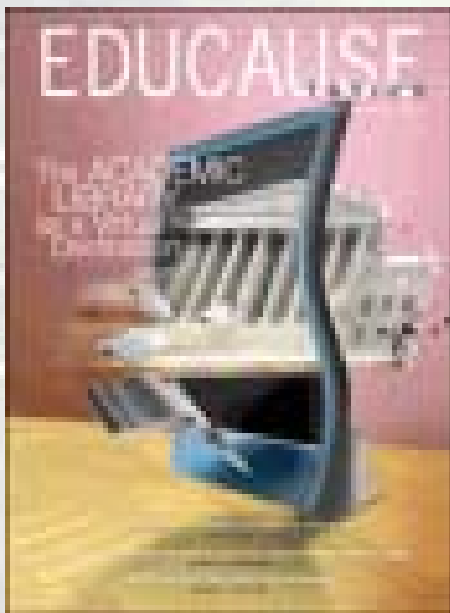
In general terms, this new form of information seeking  
behaviour can be characterized as being horizontal,  
bouncing, checking and viewing in nature.

*Information Behaviour of the Researcher of the Future,*  
UCL, 11 January 2008

# Reports in the Library Literature

## 图书馆学文献撷英

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Because of the fundamental role that academic libraries have played in the past century, it is tremendously difficult to imagine a college or university without a library. Considering the extraordinary pace with which knowledge is moving to the Web, it is equally difficult to imagine what an academic library will be and do in another decade.

Providing quality learning spaces; creating metadata; offering virtual reference services; teaching information literacy; choosing resources and managing resource licenses; collection and digitizing archival materials; and maintaining digital repositories

“Changing A Cultural Icon: The Academic Library As a Virtual Destination,” Jerry Campbell, *Educause Review*, January/February 2006

# Reports in C&RL (大学图书馆学报)

## COLLEGE & RESEARCH LIBRARIES



September 2007 • Volume 68 • Number 5

Geographic Search: Catalogs, Gazetteers, and Maps  
*Michael Buckland, Aitao Chen, Fredric C. Gey, Ray R. Larson, Ruth Mostern, and Vivien Petras*

Estimating Salary Compression in an ARL Institution: A  
University of Colorado at Boulder Case Study  
*Scott Seaman*

Retaining and Advancing Librarians of Color  
*Peggy Johnson*

A Strategy for Academic Libraries in the First Quarter of the  
21st Century  
*David W. Lewis*

The Elusive User: Changing Use Patterns in Academic  
Libraries 1995 to 2004  
*Charles Martell*

Selected Reference Works, 2006–2007  
*Sarah Witte and Mary Cargill*

1. Complete the migration from print to electronic collections
2. Retire legacy collections
3. Redevelop library space
4. Reposition library and information tools, resources, and expertise
5. Migrate the focus of collections from purchasing materials to curating content

“A Strategy for Academic Libraries in the  
First Quarter of the 21<sup>st</sup> Century”  
David W. Lewis, *C&RL*, September, 2007

0009-1939(200709)68:5;1-0  
10.1080/00091930701449110  
C&RL  
SEP 2007  
V. 68, NO. 5  
P. 1-110



# Strategic Directions for Creating the Future of the Academic Library: My Perspective

## 创造学术图书馆未来的战略方针：一孔之见

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1. Move from collection development to knowledge management practice  
从资料收藏转移到知识管理
2. Resign library space for people and collections  
让图书馆空间服务于人和信息资源的需要
3. Create more collaborative organization for information services  
为信息服务创造更为互助合作的组织机构



# From Collection Development to Knowledge Management

## 从资料收藏到知识管理之路

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**1950-1975: Collection Development**

资料收藏



**1975-2000: Collection Management**

资料管理

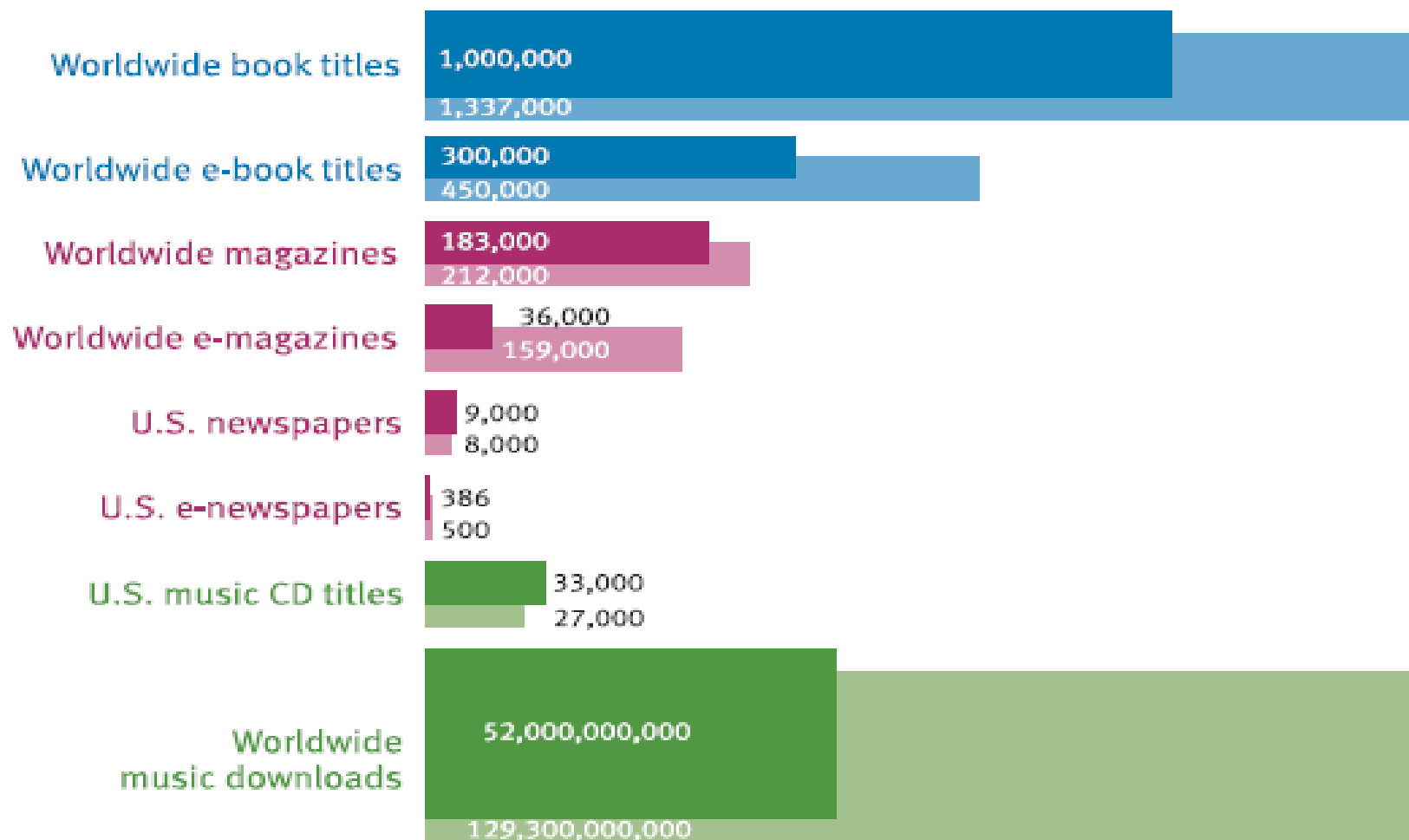


**2000- : Knowledge Management**

知识管理

# Continuing Growth of Publication

洛阳纸不贵，出版也疯狂



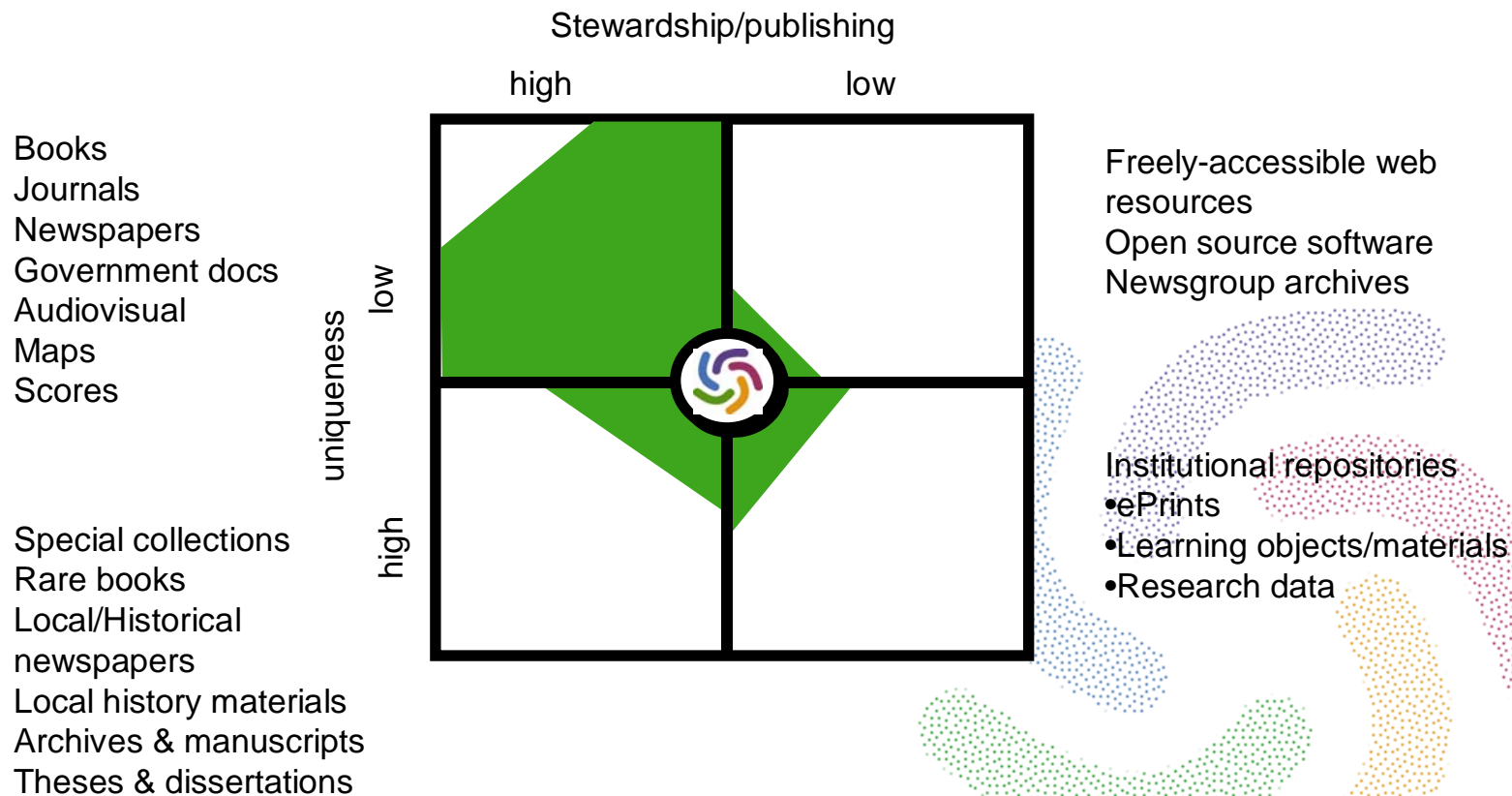
Projected shifts in *annual*  
production volume

2004–2009

OCLC: 2004 Information Format Trends

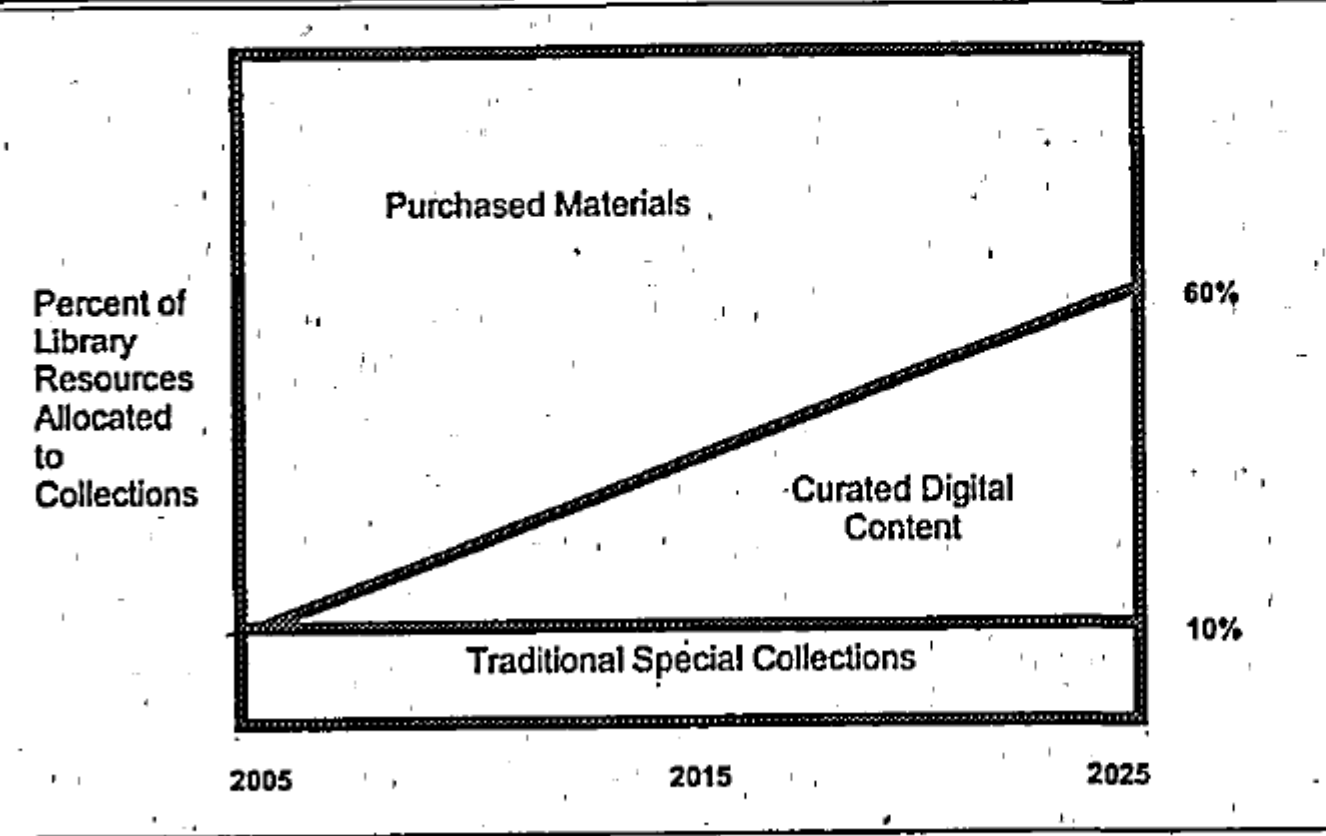
# Data Maps-Metadata

Relative emphasis of content in WorldCat



Lorcan Dempsey, OCLC

**FIGURE 1**  
**Transition from Purchased Materials to Curated Content**

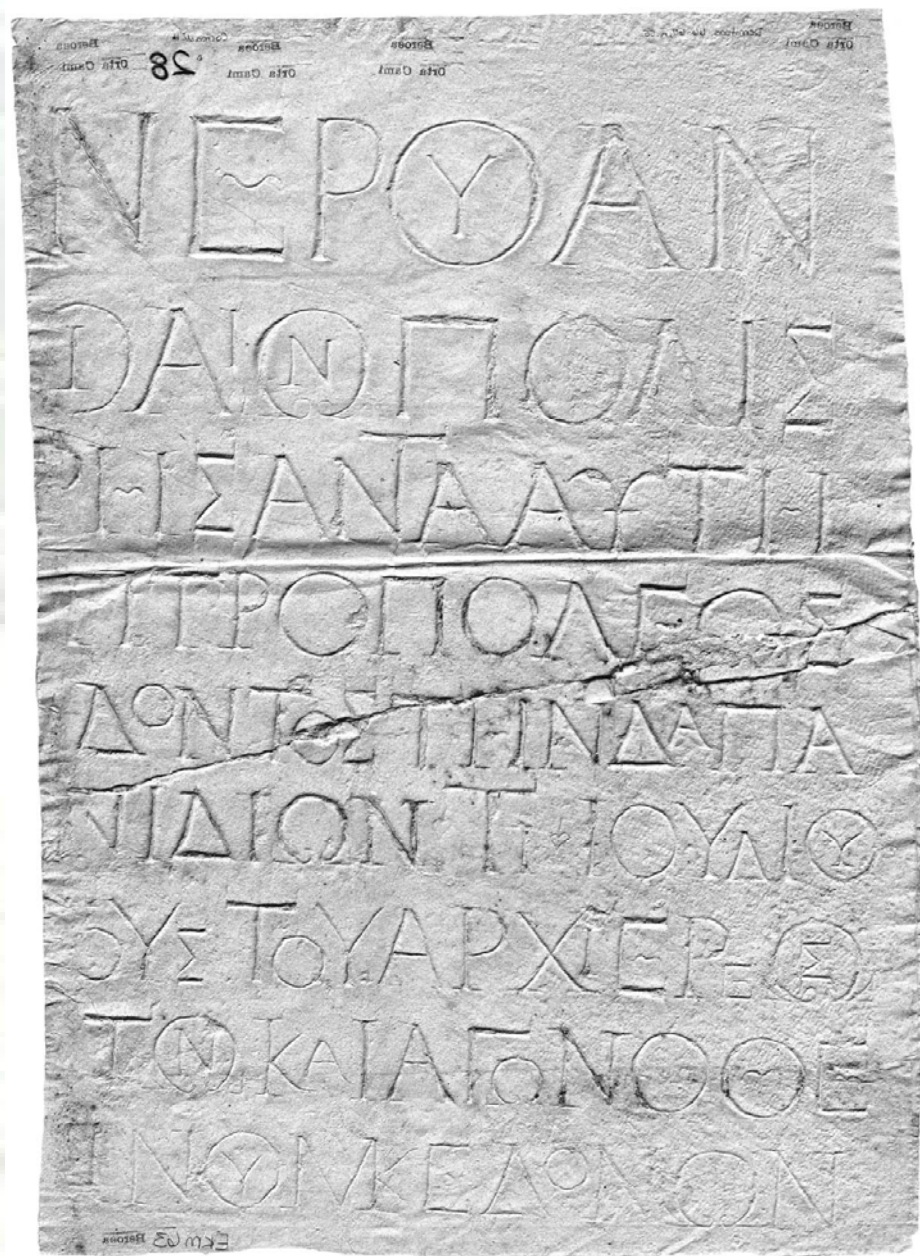
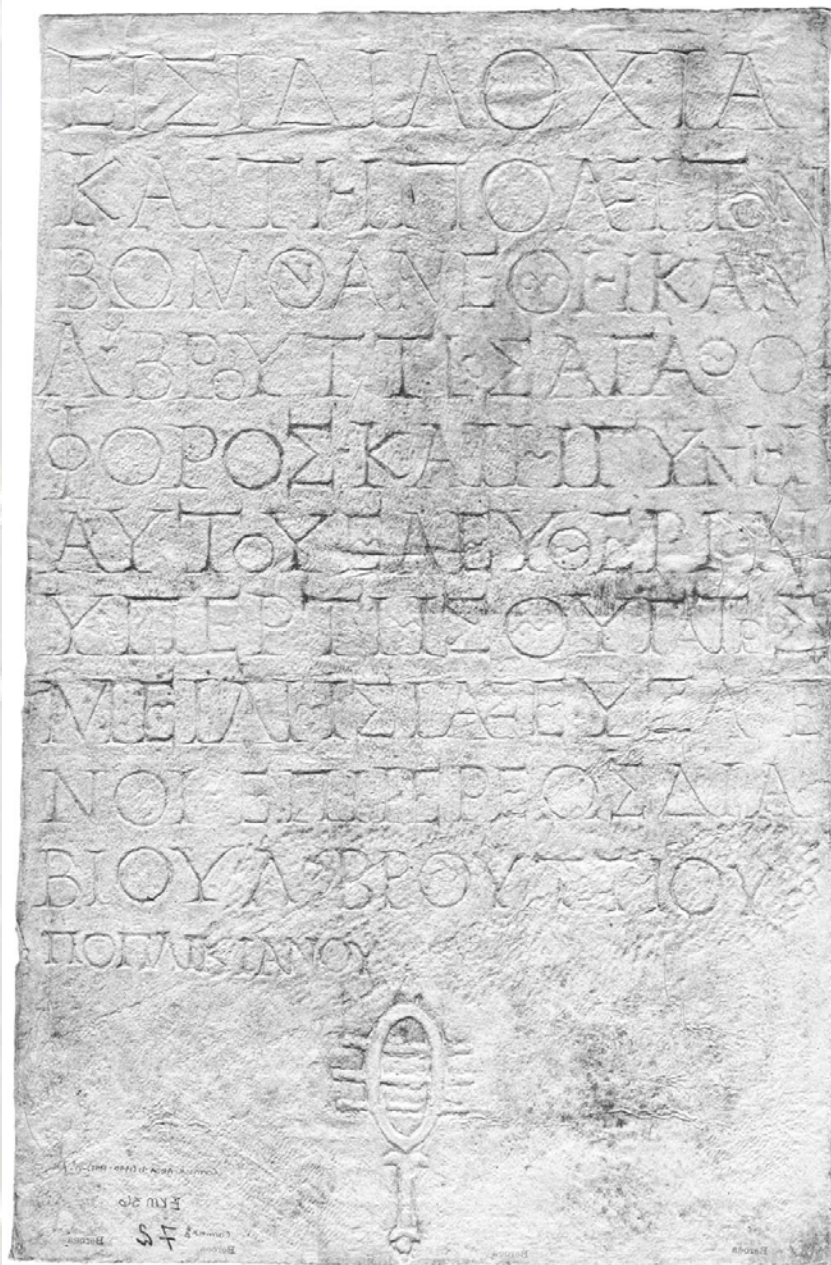


A second challenge will be to develop the level of support for this activity to match the level of support that currently exists for purchasing content. The value of purchased content is clear, especially to the users. Curating content has a similar value, but this value is not always as clear.<sup>25</sup> There will be a

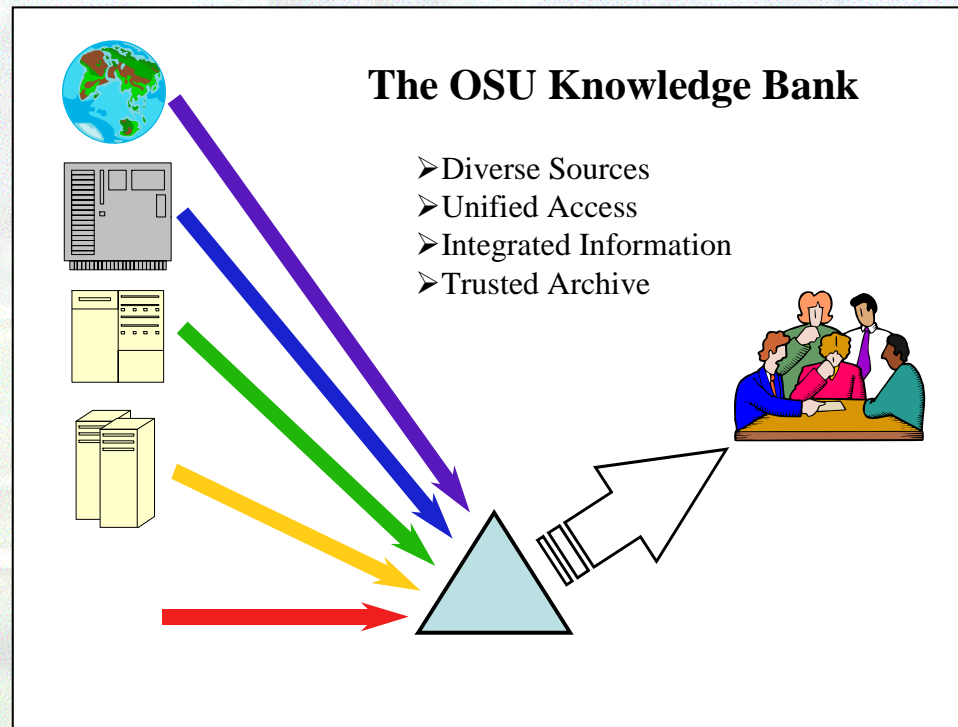
aging these collections. It should also be noted that this includes the purchase

temptation to be a free rider. Since open access provides information at no cost









## A Proposal for Development of an OSU Knowledge Bank

Submitted to the  
OSU Distance Learning/Continuing Education Committee  
June 21, 2002

[http://www.lib.ohio-state.edu/Lib\\_Info/scholarcom/KBproposal.html](http://www.lib.ohio-state.edu/Lib_Info/scholarcom/KBproposal.html)

By  
The OSU Knowledge Bank Planning Committee  
Chair: Joseph J. Branin, Director of Libraries



# The Knowledge Bank Broadly Defined

## 何谓知识库

The OSU Knowledge Bank project proposes to create a knowledge management system for the University that will support the creation, organization, storage, and dissemination of the institution's digital information assets.

The Knowledge Bank will be both a “*referatory*” providing links to digital objects and a “*repository*” capable of archiving the increasing volume of digital content created at OSU for long-term use and preservation。

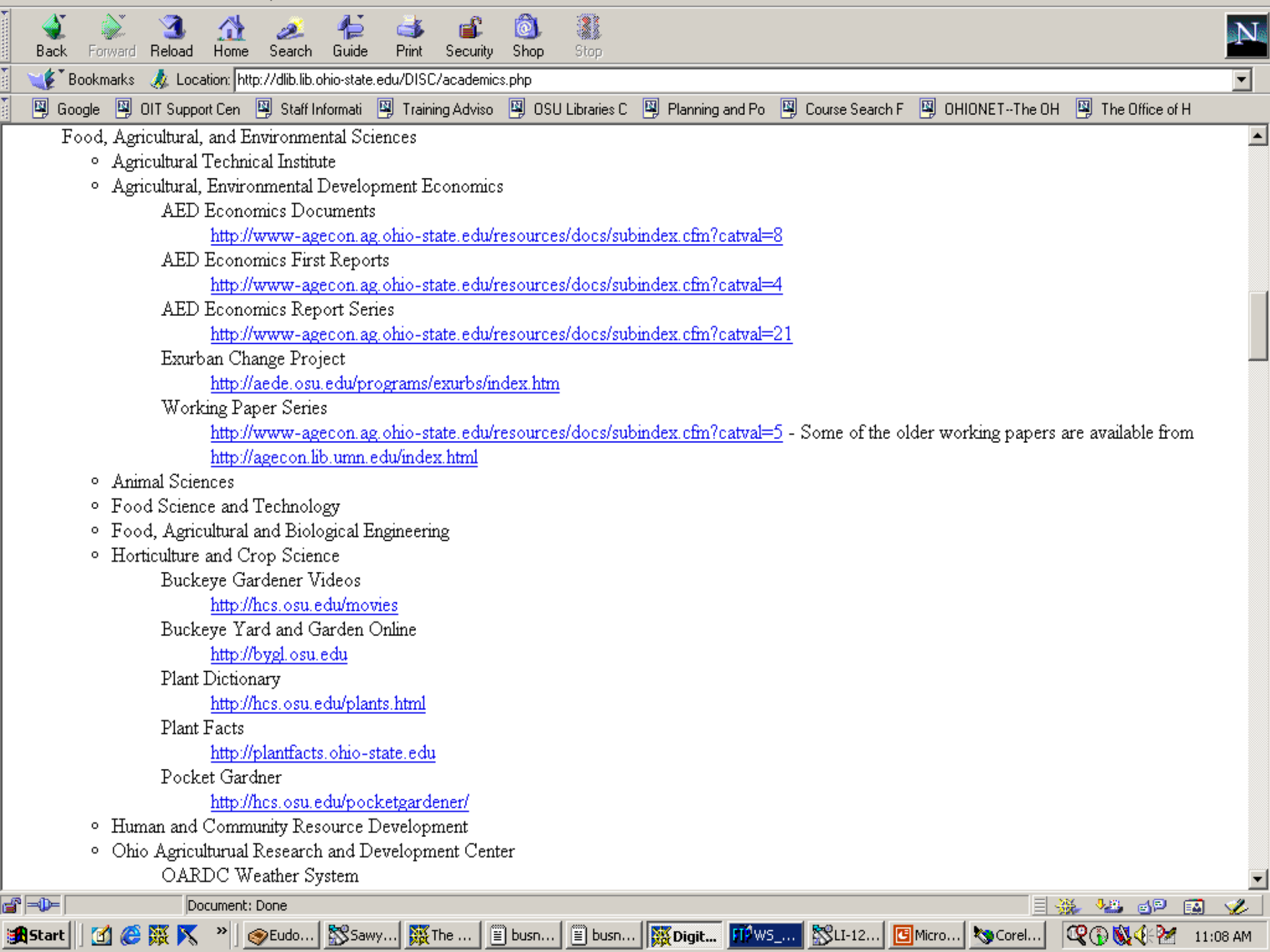
支持创造、组织、储存、传播本校数字化信息资产的知识管理系统  
既是索引库，又是资料库

# Digital Knowledge Bank at OSU

## 俄亥俄州立大学的数字化知识库

- Online Published Material
  - E-books, e-journals, government documents, handbooks
- Online Reference Tools
  - Catalogs, indexes, dictionaries, encyclopedias, directories
- Online Information Services
  - Scholar's portal, alumni portal, chat reference, online tutorials,, e-reserves, e-course packs, technology help center
- Electronic Records Management
- Administrative Data Warehouse
- Digital Publishing Assistance
  - Pre-print services
  - E-books, e-journal support
  - Web site development and maintenance
- Faculty Research Directory
- Digital Institutional Repository
  - Digital special collections
  - Rich media (multimedia)
  - Data sets and files
  - Theses/dissertations
  - Faculty publications, pre-publications, working papers
  - Educational materials
    - Learning objects
    - Course reserves/E-course pack materials
    - Course Web sites
- Information Policy
- Research/Development in Digital Information Services
  - User needs studies
  - Applying best practice
  - Assistance with Technology Transfer





## Food, Agricultural, and Environmental Sciences

- Agricultural Technical Institute
- Agricultural, Environmental Development Economics
  - AED Economics Documents  
<http://www-agecon.ag.ohio-state.edu/resources/docs/subindex.cfm?catval=8>
  - AED Economics First Reports  
<http://www-agecon.ag.ohio-state.edu/resources/docs/subindex.cfm?catval=4>
  - AED Economics Report Series  
<http://www-agecon.ag.ohio-state.edu/resources/docs/subindex.cfm?catval=21>
  - Exurban Change Project  
<http://aede.osu.edu/programs/exurbs/index.htm>
  - Working Paper Series  
<http://www-agecon.ag.ohio-state.edu/resources/docs/subindex.cfm?catval=5> - Some of the older working papers are available from  
<http://agecon.lib.umn.edu/index.html>
- Animal Sciences
- Food Science and Technology
- Food, Agricultural and Biological Engineering
- Horticulture and Crop Science
  - Buckeye Gardener Videos  
<http://hcs.osu.edu/movies>
  - Buckeye Yard and Garden Online  
<http://bygl.osu.edu>
  - Plant Dictionary  
<http://hcs.osu.edu/plants.html>
  - Plant Facts  
<http://plantfacts.ohio-state.edu>
  - Pocket Gardner  
<http://hcs.osu.edu/pocketgardener/>
- Human and Community Resource Development
- Ohio Agricultural Research and Development Center
  - OARDC Weather System

Address <https://kb.osu.edu/index.jsp> GoLinks [comlist](#) [Custom](#) [facgov](#) [Google](#) [Libs Dir](#) [Minutes](#) [OHIONET](#) [OIT](#) [OSU Dir](#) [OSU home](#) [P&P](#) [Staff](#) [TAC](#) [TCW](#) [Renov](#)

# KnowledgeBank

UNIVERSITY LIBRARIES AND OFFICE OF THE CHIEF INFORMATION OFFICER

**Search the Knowledge Bank:** Go[Advanced Search](#)

- [Home](#)
- [About the Knowledge Bank](#)

**Browse**

- [Communities & Collections](#)
- [Titles](#)
- [Authors](#)
- [By Date](#)

**Sign on to:**

- [Receive email updates](#)
- [My Knowledge Bank](#)  
authorized users
- [Edit Profile](#)
- [Help](#)

**The Knowledge Bank at OSU****The Knowledge Bank is Live!!**

Welcome to the Knowledge Bank, a joint initiative of the [University Libraries](#) and the [Office of the CIO](#).

The Knowledge Bank uses D-Space software, developed jointly by [MIT Libraries](#) and [Hewlett-Packard](#)

**Communities in the Knowledge Bank**

Select a community to browse its collections.

- [Hilandar Research Library \(Under construction\)](#)
- [Honors Theses](#)
- [Knowledge Bank](#)
- [Learning Objects Research Community](#)
- [Ohio State University Libraries](#)
- [Ohio State University Press \(Under Construction\)](#)
- [Olentangy River Wetland Research Park](#)
- [Technology Enhanced Learning & Research \(Under construction\)](#)


**Welcome to the Knowledge Bank!**

[OSU Digital Projects](#)  
[OhioLink](#)  
[OhioLink FTP Center](#)



# KnowledgeBank

UNIVERSITY LIBRARIES AND OFFICE OF THE CHIEF INFORMATION OFFICER






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
[The Knowledge Bank at OSU](#) >

## Olentangy River Wetland Research Park

Community  
home page

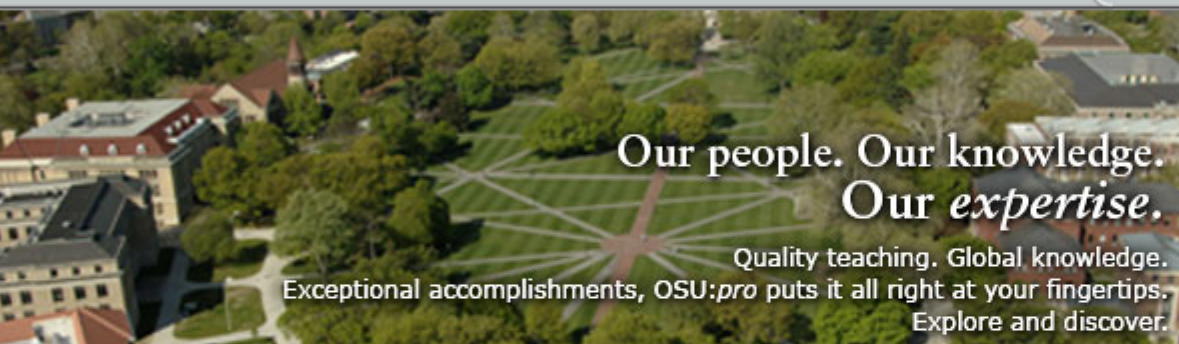


In:  

Search for  

or browse

Introduction: The Olentangy River Wetland Research Park at The Ohio State University is designed to be one of the comprehensive wetland research and education facilities in the nation at a major university. It is located on a 30-acre site owned by The Ohio State University, immediately north of the Columbus campus. Phase 1 of site development, which featured construction of two 2.5-acre deep-water marshes and a river water delivery system, was completed in 1998. Phase 2 which involved establishing the infrastructure for research and education of the site, including additional



By design, OSU:pro helps to organize your scholarly activity, streamline the building of your dossier, and end duplicative efforts in reporting to help save time and money across the academic enterprise.

Our tool also communicates your professional accomplishments to visitors searching for local expertise, thereby expanding opportunities for the community to interact and engage with us.

OSU:pro puts knowledge management into practice- by reshaping the tools we use to document and share our knowledge and skills here at The Ohio State University.



## What's New?

Just about everything! Log in to experience our new user interface with expanded tools to make personalizing and updating your dossier information even easier.

Check this section weekly for updates as we roll out new features, reports, and other functionality to make the most of your scholarly accomplishments.

### LOGIN

► **OSU User Login**

► **Guest Login**

### ► Winner of the 2007 Innovation Award



OSU:pro was honored with the inaugural Innovation Award by [the Association of Academic Health Sciences Libraries \(AAHSL\)](#) at their national joint meeting with [the Association of American Medical Colleges \(AAMC\)](#)

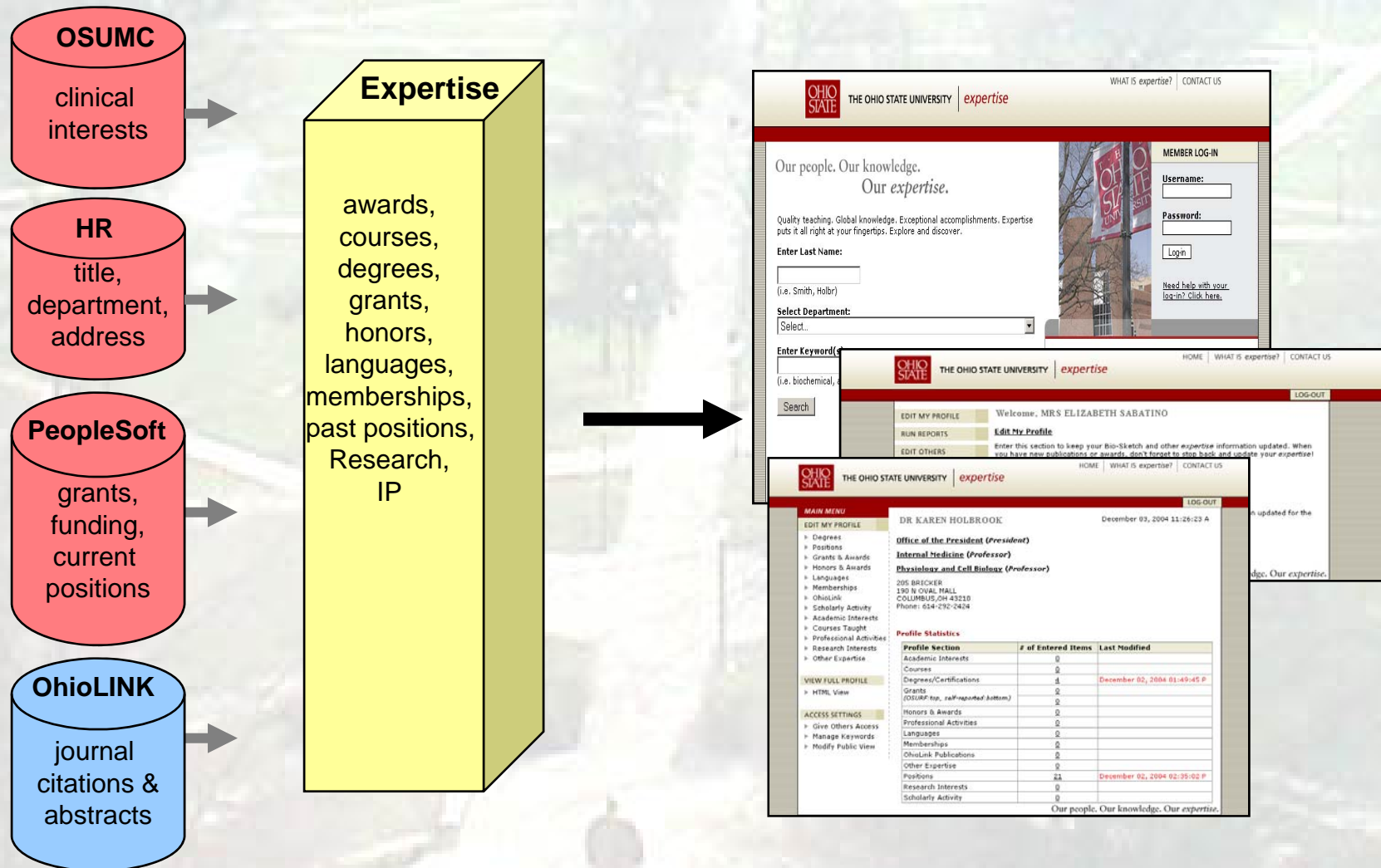
### ► internal partners

[Center for Knowledge Management](#)  
[Office of Academic Affairs](#)  
[University Knowledge Bank](#)  
[Ohio State University Medical Center](#)  
[University Libraries](#)  
[OhioLINK](#)  
[OSU Research Foundation](#)  
[Office of Information Technology](#)



# OSU Pro: Leveraging Canonical Data Sources

## OSU Pro: 发挥专家的权威优势



# “The Gene Hunters”: A Suggested Case Study

## “基因猎人”：一则实例

“The Gene Hunters: Closing in on the Origins of Alzheimer’s Disease,” Sue Halpern, *The New Yorker*, December 12, 2005, pp.84-93.

- What kinds of information do scientist need and collect in genetic research?
- How is this information collected, organized, stored, preserved, and shared?
- What role do librarians play in genetic research ?

# New Roles for Librarians as “ Knowledge Managers”

## 知识管理员：图书馆员的新角色

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- Librarians “can no longer meet the information needs of faculty and students through the traditional avenue of simply adding to their collections.” (Battin and Hawkins, *Mirage of Continuity*, 1998)
- New Roles
  - Managing knowledge content (working more closely with faculty and students to design, organize, and maintain a broader range of digital assets.)
  - Using information technology to create new organizational (metadata), retrieval (discovery), and storage (preservation) options
  - More active role in the educational and research mission of university (integrating information resources and services in teaching and research activities)
  - Active learners and educators: teaching information literacy, programming library space, outreach to faculty and students, grant-seeking and fund raising



**Managing our legacy and traditional space,  
place, and services**

**维护我们的遗产和传统空间、场所及服务**



**Envisioning and shaping our new space,  
place, and services**

**想象和塑造我们崭新的空间、场所及服务**



# Touch of Print: Making Sense of Information

## 曾几何时：求知惟有读“书”



# Library Storage Needs

## 金匱石室書為患



Low Memorial Library  
哥伦比亚大学图书馆1894



Butler Library  
哥伦比亚大学图书馆1934



# Overcrowded Shelving Conditions

## 顶天立地挤不下



# Less-than-ideal Storage Conditions

## 横臥歪躺无处藏

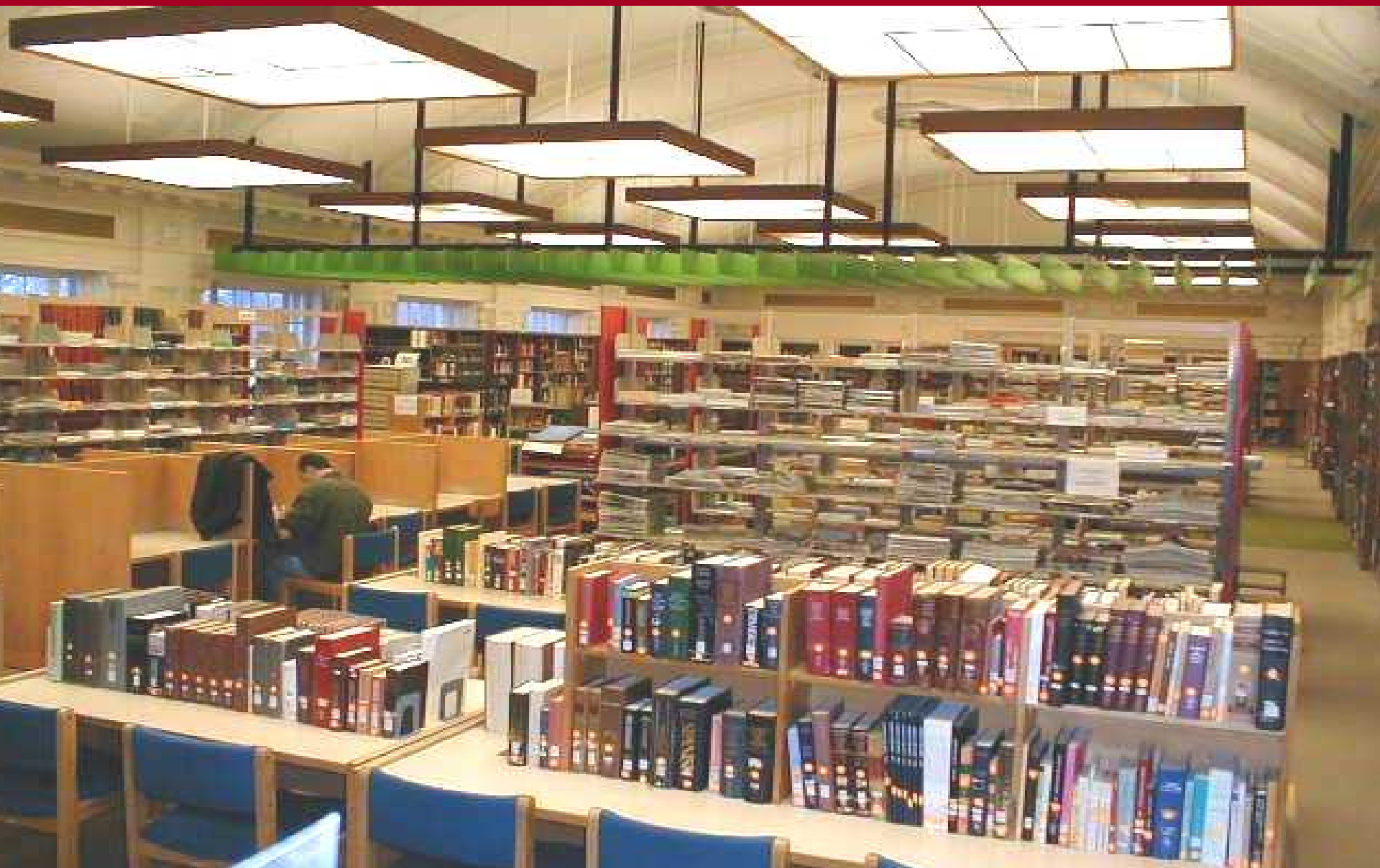


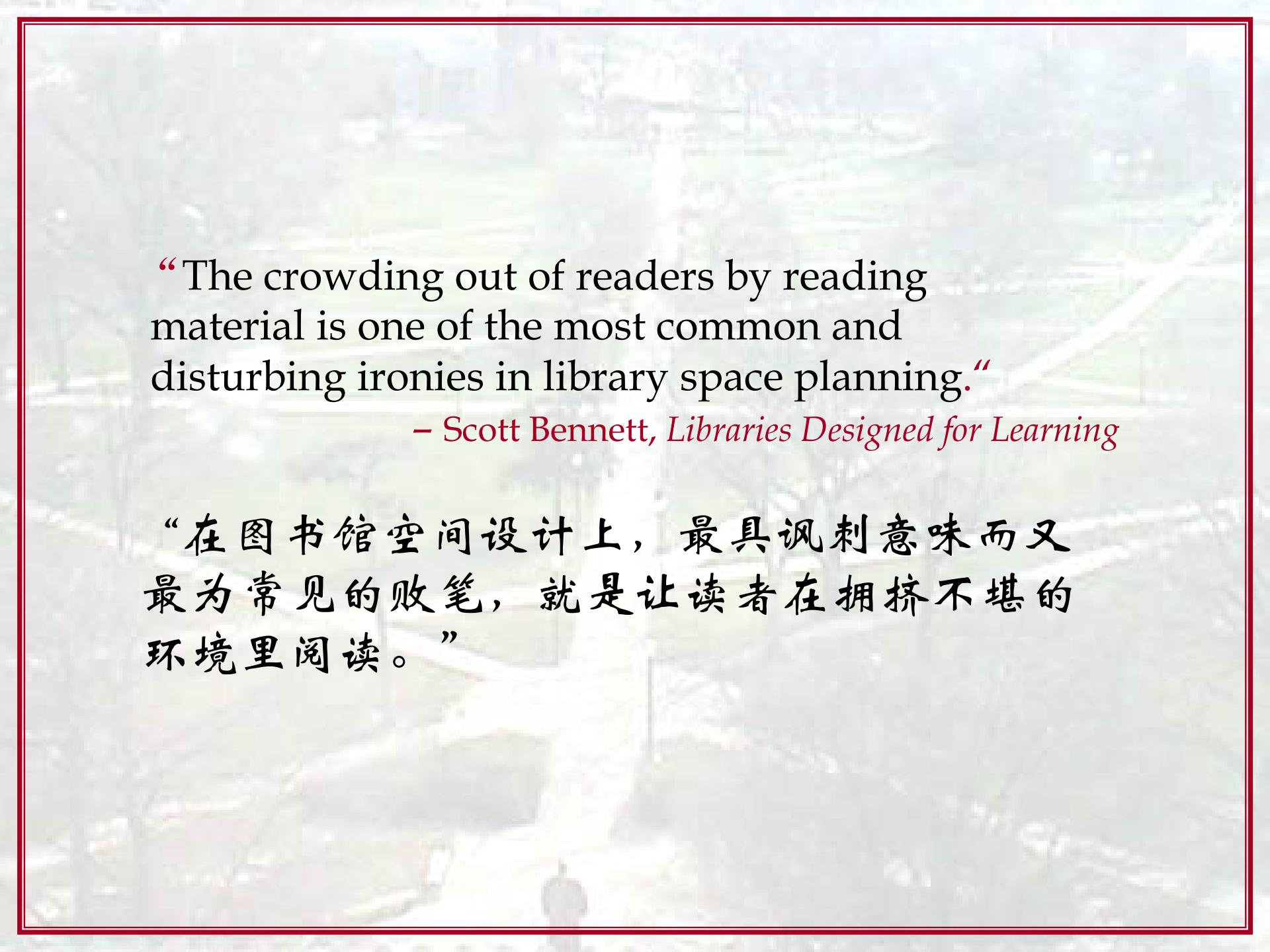


# The Original Reading Room 俄州大阅览室：原貌



# The Current Reading Room 俄州大阅览室：今颜





“The crowding out of readers by reading material is one of the most common and disturbing ironies in library space planning.”

– Scott Bennett, *Libraries Designed for Learning*

“在图书馆空间设计上，最具讽刺意味而又最为常见的败笔，就是让读者在拥挤不堪的环境里阅读。”



The Grand Reference Hall, 2009 (rendering): 整旧如旧待来年







俄亥俄州立大学图书馆密集书库





# Expanding Document Delivery Services

## 扩大延深文献传递服务

Article   
**Express**

Scanning and electronic delivery  
of articles from print journals  
for students and faculty = 24,000  
items per year (at start up)

**Document  
Delivery**

Books from Libraries' collections  
delivered to nearest library or  
through campus mail to faculty  
offices and student dorms =  
56,000 items per year

**Interlibrary Loan**

Material borrowed from other  
libraries for pick up or document  
delivery = 102,000 items per year



# Facility Improvements 改善设施



Thompson Library



Book Depository



Science & Engineering Library



Sullivant Hall



**Cornell's Periodicals Room  
was hardly used by 2001.**

**2001年，康乃尔的报刊阅览室  
无人问津**

**Sarah Thomas**

**Transformed into a wired  
café, the space is now one of  
the campus's most popular  
study and meeting places.**

**摇身变为无线吧  
座无虚席**





# What Users Want...

用户所欲....

- 24/7 随时
- Self-reliance 自足
- Technology 高科
- Amenities 便利
- Quiet zones 安静
- Social interaction 社交

Sarah Thomas,  
Cornell





**Wilson Library, University of Minnesota**

**明尼苏达大学图书馆**



# Digital Union 俄亥俄州立大学数字化家园



# The Library West Commons



Georgia Tech Libraries 乔治理工的图书馆



# The Multimedia Workshop



Georgia Tech Libraries



Ohio State

俄州大



Colby College

科拜学院

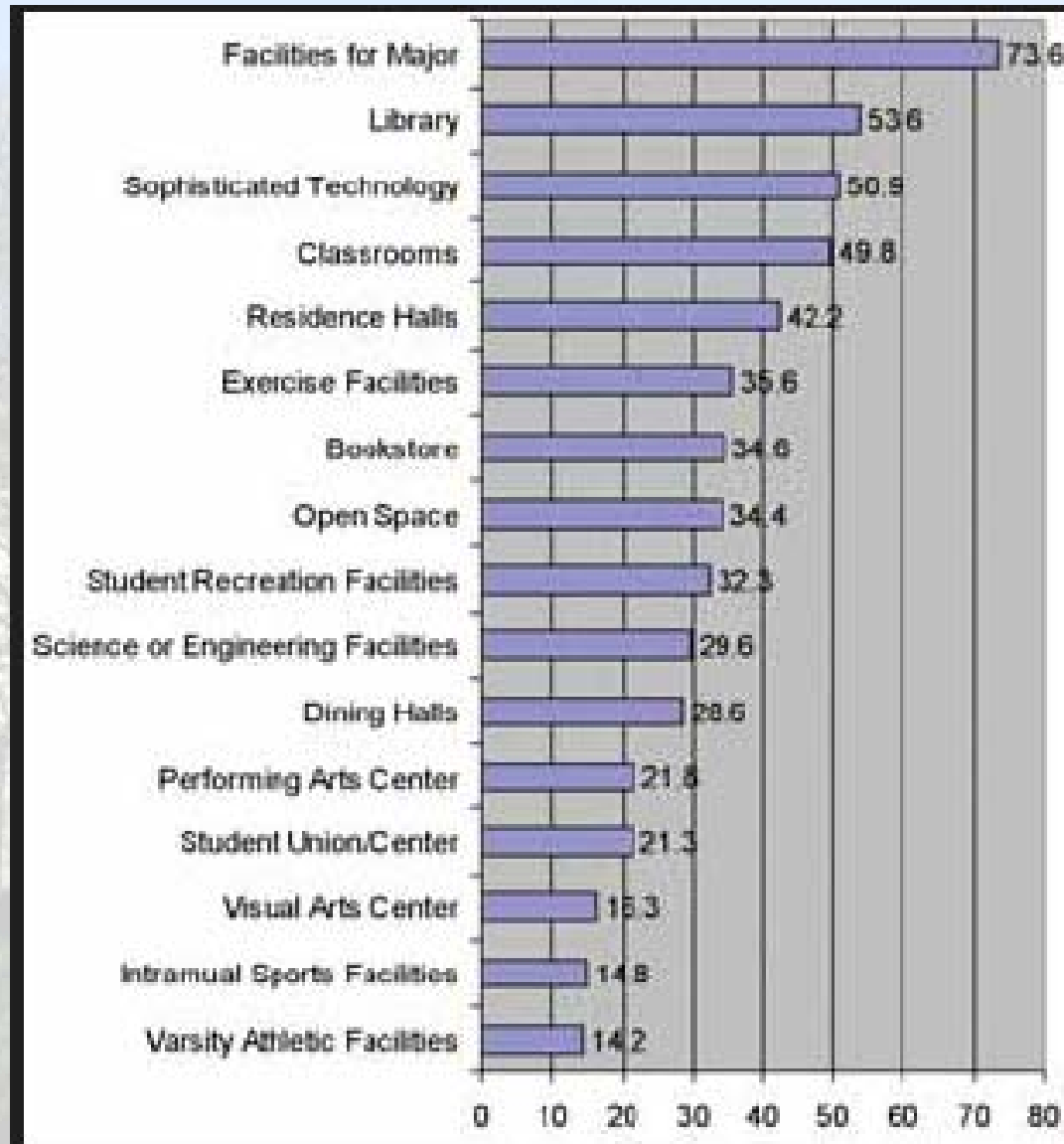
# Libraries Key in Shaping Students' College Choice

## 学生择校，图书馆优先

- A new study by the Association of Higher Education Facilities Officers reveals that more than half the students surveyed ranked the condition of a university's libraries near the top of their list of reasons for choosing a college
- Only lower than facilities related to specific majors
- Higher than classrooms, dorms, rec centers, student unions, cafeterias



# Extremely or Very Important Facilities in the Selection Decision Process



*Facilities Manager*  
March/April 2006

# New Learning Space Design in Libraries

## 设计图书馆的新型学习空间

- Balance between collections and user space
- Robust information technology infrastructure
- Consolidation of collections and service points
- Variety of public spaces: quiet, private, gathering places, much more group study, very flexible meeting and teaching space
- More events and programs: exhibits, displays, lectures, tutoring, seminars
- Partnerships with CIO, Teaching Centers, Student Services
- Open office/studios for library staff
- Attention to social amenities: café, lighting, displays, soft furniture

# Changes in Place, Space, and Services in Research Libraries in the Digital Age

## 数字化时代学术图书馆空间、场所和服务的改变

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### ➤ Information Space

- New ways to manage print and digital collections  
管理印刷和数字资源的新方法
- The rise of knowledge management responsibilities  
增加知识管理的责任

### ➤ Learning Place and Organization

- Using library real estate for a learning place  
化图书馆场所为学习空间
- Redeployment of library personnel and services in support of knowledge management and active learning  
重组图书馆人和服务以支持知识管理和积极学习



# Creating a More Collaborative Information Services Environment

## 创建更为合作互助的信息服务环境

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- Within the Institution                      单位内
  - enterprise-wide IT architecture and information services  
    统合各部门的IT设施和信息服务
  - teaching and research support  
    教学和研究的支持
  
- Among Libraries                              馆之间
  - State-wide library cooperation (OhioLINK)  
    本州内图书馆的合作
  - Multi-type library cooperation  
    不同类型图书馆的合作
  - Regional, national, and international efforts  
    地区、国际和全球性合作

**Welcome to OhioLINK**[OhioLINK Library Catalog](#)[Electronic Journal Center](#)[Digital Media Center](#)**Chat With A Librarian**[Tips](#)**Explore OhioLINK Databases**[By Subject](#)[By Type](#)[By Name](#)[Subject Cluster Search](#)[E-Journal Finder](#)[My Express Links](#)[About OhioLINK](#)[Members](#)[Search pages on this website](#)**OhioLINK**

Ohio Library and Information Network

Quick and simple search:

[\(What's this?\)](#)

The library at Kent State University, an OhioLINK member. OhioLINK is a consortium of the libraries of 84 Ohio colleges and universities, and the State Library of Ohio.

New at OhioLINK: [ODCE Conference Proposals Due October 31](#) (October 08, 2004)

[OhioLINK Update Newsletter - October Issue Online](#) (October 08, 2004)

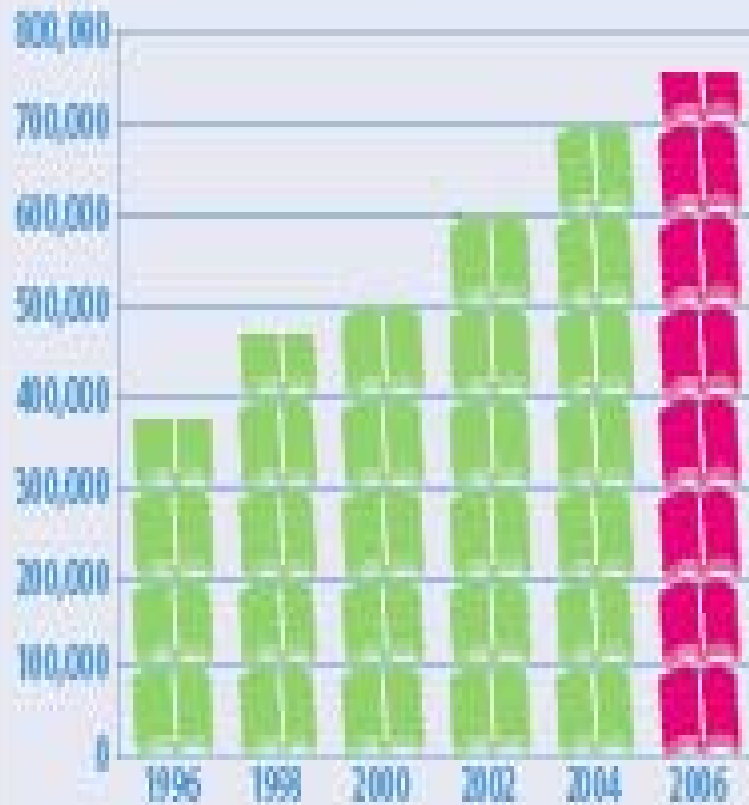
[Eric Full-Text Documents Now Freely Available](#) (October 04, 2004)

[Reference E-Books Collection Grows to 348](#) (October 01, 2004)

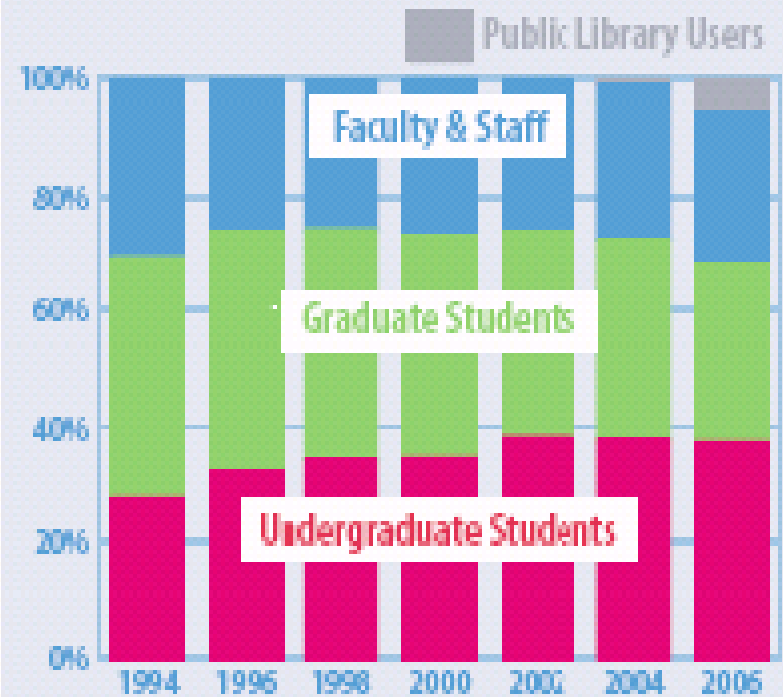
# OhioLINK In Reach Services

## 研究服务

*Number of Library Items Delivered*



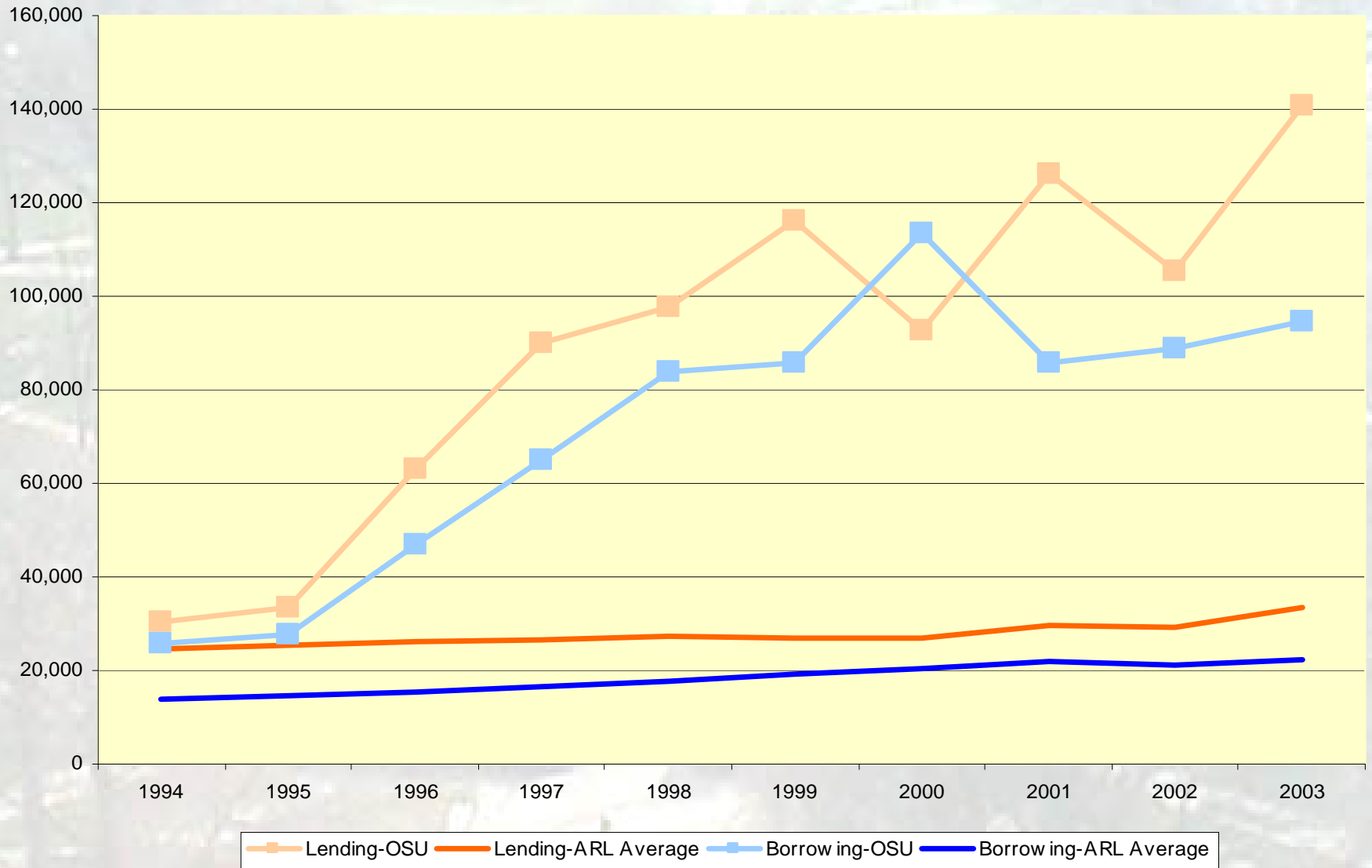
*Online Borrowing by Patron Type*








# Interlibrary Lending/Borrowing at OSU

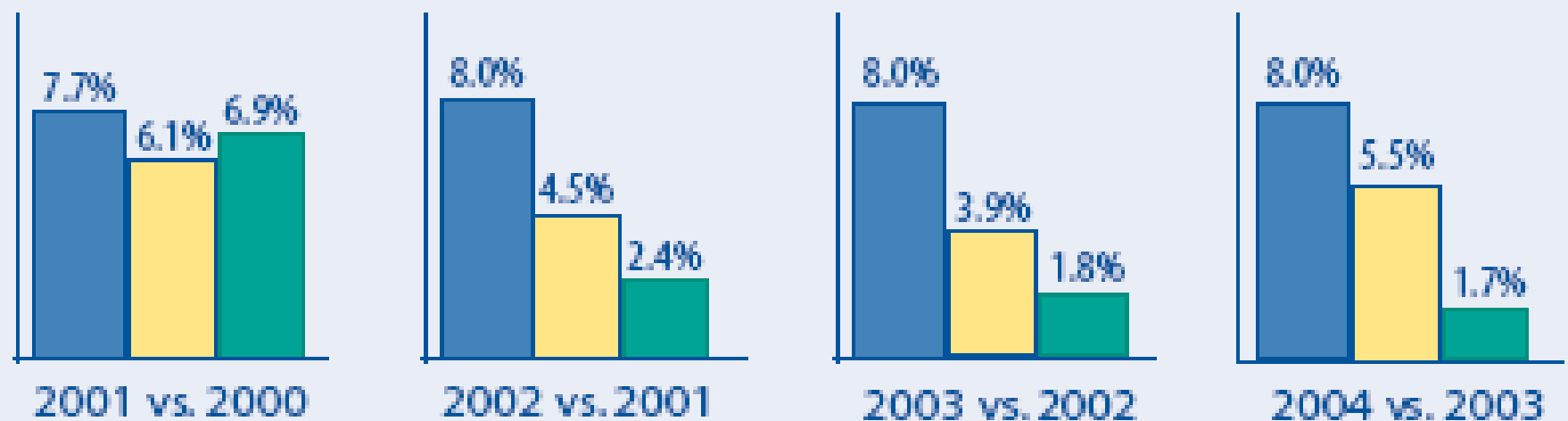
## 俄州大的馆际互借



# Cost Effective Purchasing Power

## 高效益的采购

-  Average Annual Journal Cost Increase for Typical Academic Research Library
-  Average Annual Cost Increase for Journals Licensed through OhioLINK
-  Average Annual Cost Increase for Research Databases / General & Business Journals Licensed through OhioLINK



# Redeployment of Personnel and Resources

## 重新分配人力和资源

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### ➤ What's on the decline 减少

- Overcrowded stacks and facilities
- Traditional acquisitions
- Circulation and in house use of traditional collections
- Number of service points and reference desk services
- Bureaucracy and administrative complexity

### ➤ What's on the rise 增加

- Library consortia and resource sharing
- Knowledge management
- Digital repository service
- Presence on the public Internet
- Learning Commons
- More and better use of student employees
- Teaching and research partnerships
- Outreach and marketing
- Librarians and library staff as leaders, managers, and teachers



An aerial, slightly blurred photograph of a park. A light-colored, winding path leads from the bottom center towards the top of the frame. The path is flanked by green grass and numerous trees, some of which are bare, suggesting a cooler season. In the background, there are some buildings and more trees. The overall tone is soft and natural.

**THANKS!**

**谢谢!**