



College of Information Studies

University of Maryland Hornbake Library Building College Park, MD 20742-4345

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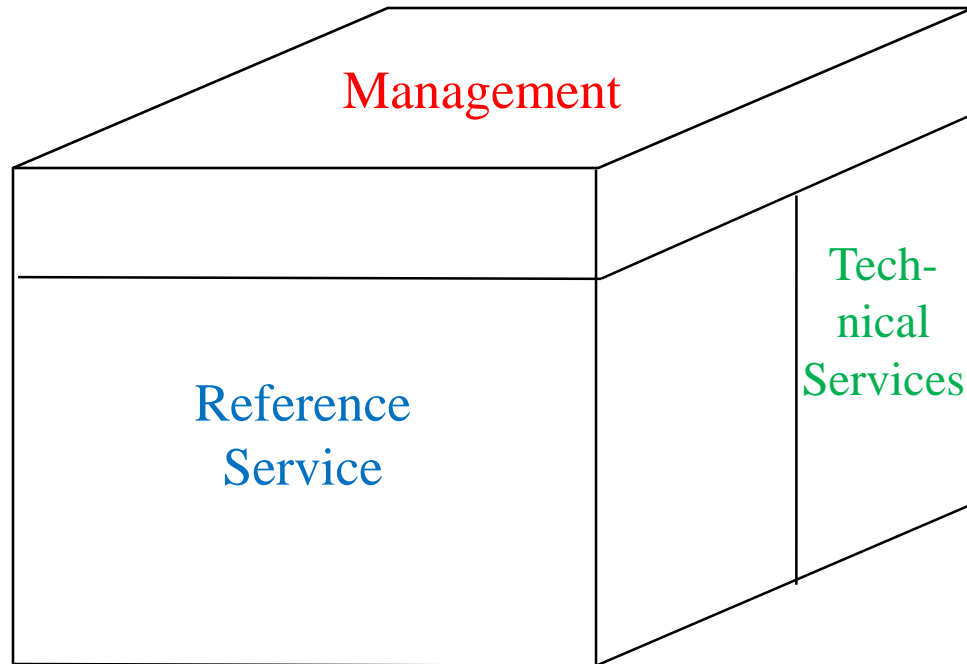
# Information Professions

Session 22

INST 301

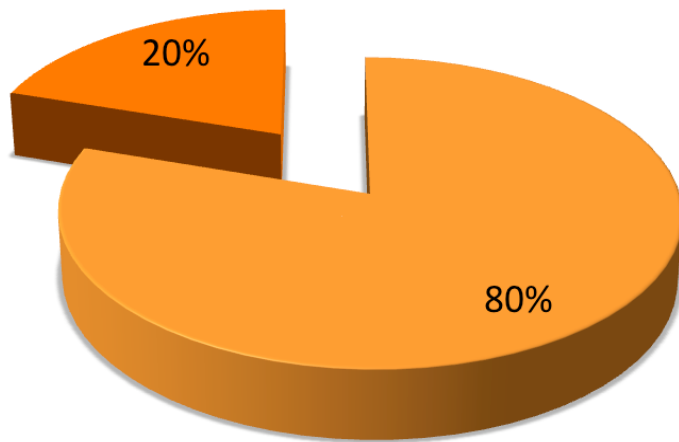
Introduction to Information Science

# Three Library Competencies



# HathiTrust

- Centralized repository for digitized books
  - Google Books digitization (via owning libraries)
  - Microsoft book search (ran from 2006-2008)
  - Internet Archive
    - Million book project, project Gutenberg, contributions, ...
  - Cooperative digitization



■ In Copyright  
■ Public Domain

**As of August 13, 2010**

6,549,680 Total volumes

3,798,116 Book titles

153,311 Serial titles

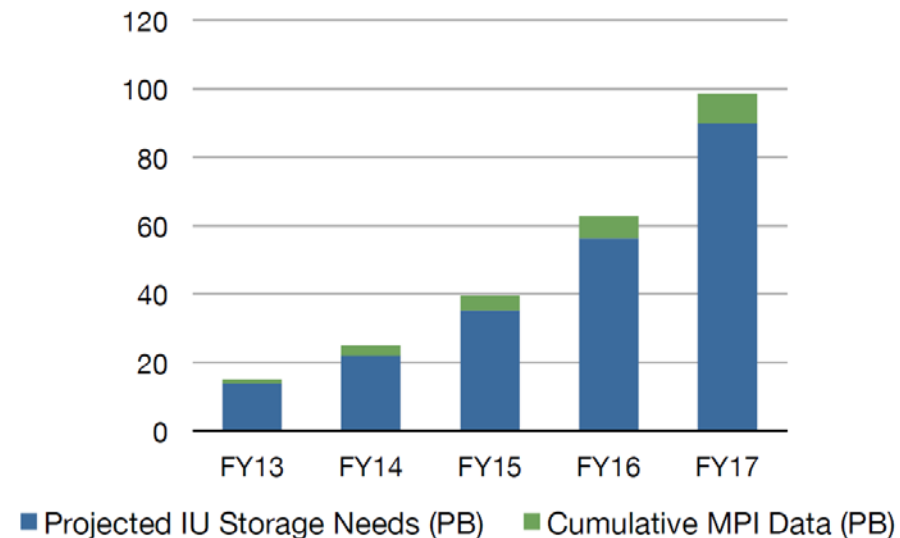
1,300,896 Public Domain

# Indiana University Digitization

Table 6: Media Preservation Targets, 2013-2027

Target	Hours	Objects	% of Total Holdings
<b>15 Years— all media types</b>	317,000	408,000	71%
<b>Audio</b>	207,000	284,000	82%
<b>Video</b>	83,000	66,000	53%*
<b>Film (access digitization)</b>	27,000	58,000	69%

*\*IU Bloomington video holdings include a large number of non-archival, commercial VHS tapes and DVDs that circulate primarily to students. These are not included here.*



# ITHAKA

- JSTOR digitization
  - Back runs of journals
  - Recently expanded to books
- Portico preservation
  - Centralized management, originally for journals
    - Release triggers: discontinuation, loss of access
  - Also service for books and datasets

# Archives

- Government
  - Legal, cultural
- Institutional
  - Liability, institutional memory
- Manuscript repositories
  - Research, preservation

# National Archives Records Schedules

- Schedule 1. Civilian Personnel Records
- Schedule 2. Payrolling and Pay Administration Records
- Schedule 3. Procurement, Supply, and Grant Records
- Schedule 4. Property Disposal Records
- Schedule 5. Budget Preparation, Presentation, and Apportionment Records
- Schedule 6. Accountable Officers' Accounts Records
- Schedule 7. Expenditure Accounting Records
- Schedule 8. Stores, Plant, and Cost Accounting Records
- Schedule 9. Travel and Transportation Records
- Schedule 10. Motor Vehicle Maintenance and Operations Records
- Schedule 11. Space and Maintenance Records
- Schedule 12. Communications Records
- Schedule 13. Printing, Binding, Duplication, and Distribution Records
- Schedule 14. Information Services Records
- Schedule 15. Housing Records
- Schedule 16. Administrative Management Records
- Schedule 17. Cartographic, Aerial Photographic, Architectural, and Engineering Records
- Schedule 18. Security and Protective Services Records
- Schedule 20. Electronic Records
- Schedule 21. Audiovisual Records
- Schedule 23. Records Common to Most Offices Within Agencies
- Schedule 24. Information Technology Operations and Management Records
- Schedule 25. Ethics Program Records
- Schedule 26. Temporary Commissions, Boards, Councils and Committees
- Schedule 27. Records of the Chief Information Officer

# Appraisal

- Value
  - Evidential
  - Informational
- Costs
  - Storage, arrangement, description, preservation, ...
- Stakeholder interests
  - Primary: Institutional needs
  - Primary: Accountability
  - Secondary: Other future record users



# DACS Principles

1. Records in archives possess unique characteristics.
2. The principle of respect des finds is the basis of archival arrangement and description.
3. Arrangement involves identification of groupings within material.
4. Description reflects arrangement.
5. The rules of description apply to all archival materials regardless of form or medium.
6. The principles of archival description apply equally to records created by corporate bodies, individuals, or families.
7. Archival descriptions may be presented at varying levels of detail to produce a variety of outputs.
8. The creators of archival materials, as well as the materials themselves, must be described.

# (Single-Level) DACS Elements

## Required

- Reference code
- Name+location of repository
- Title
- Date
- Extent
- Name of creator(s)
- Scope and content
- Conditions governing access
- Languages and scripts
- Plus, for “Optimal”
  - Administrative/biographical history
  - Access points

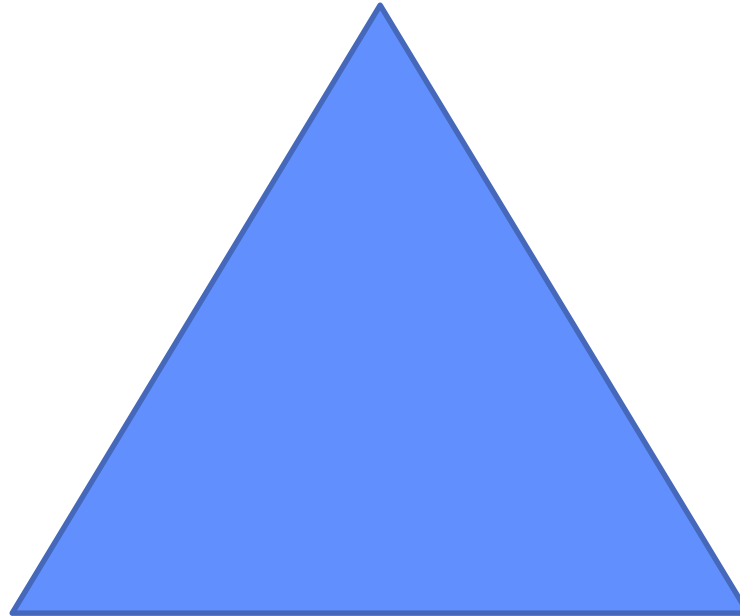
## Optional

- System of arrangement
- Physical access
- Technical access
- Conditions for reproduction and use
- (other) Finding aids
- Custodial history
- Immediate source of acquisition
- Appraisal, destruction, scheduling
- Accruals (anticipated additions)
- Existence+location of originals
- Existence+location of copies
- Related archival materials
- Publication note
- Notes
- Description control

# The iSchool Vision

Data, Information, Knowledge

Information



People

Individuals, Institutions, Society

Technology

Tech, Knowledge, Adoption

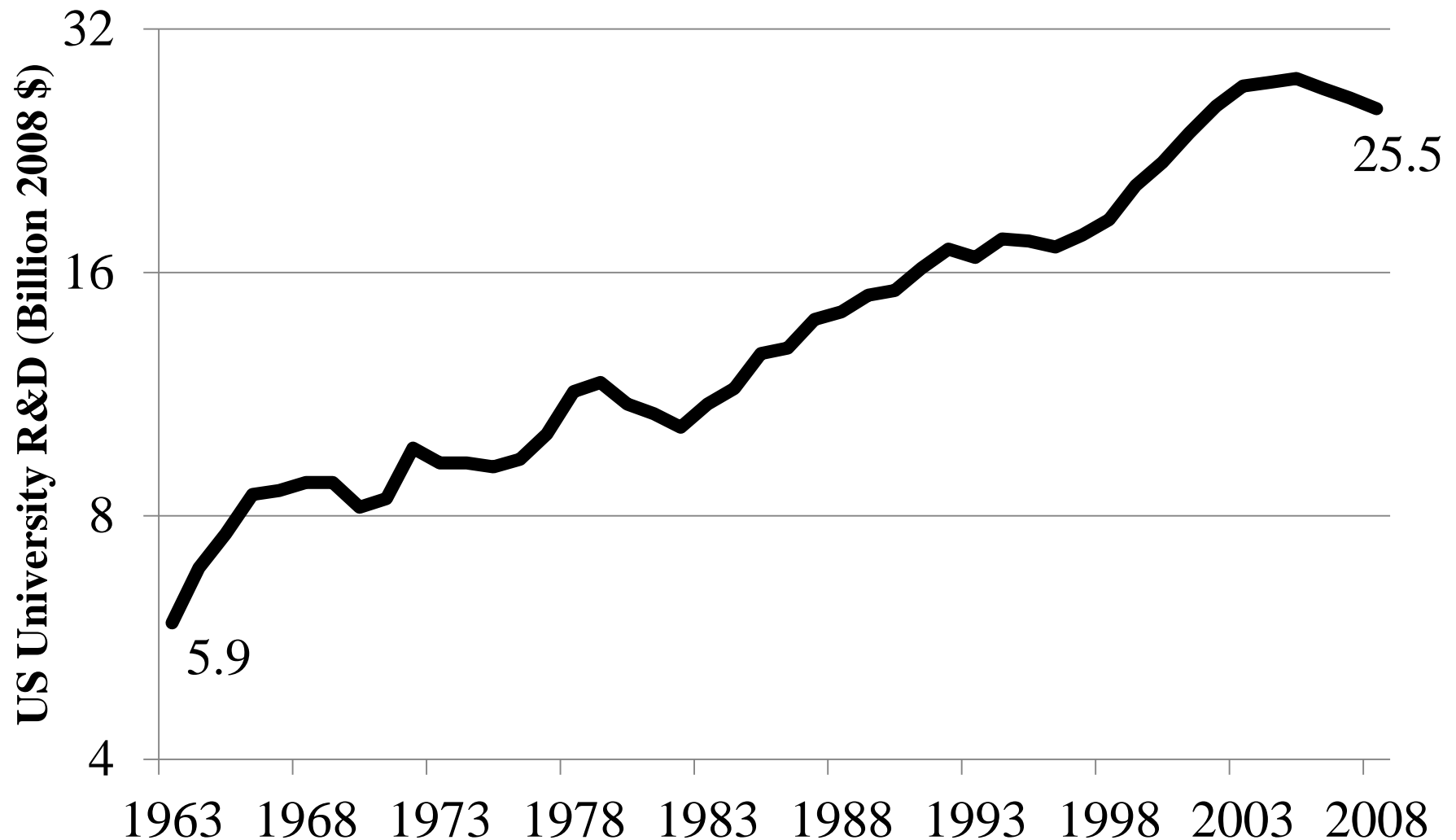
# Why iSchools Emerged

- Increased number of research-focused universities
- Closure of Library & Information Science (LIS) programs at many highly ranked universities
- Internet emergence as a mass phenomenon

# Defining an “LIS Program”

- In North America, all library science education are Master’s Degree programs
- The American Library Association accredits library science Masters programs in USA & Canada
  - Another organization accredits school library Masters programs
- Currently 54 accredited LIS programs in the USA

# US Federal R&D Funds to Universities



# Library School Closures (post-1945)

## **Top-100 US Universities**

1962: Carnegie Institute (39)  
1978: Oregon (90)  
1985: Minnesota (20)  
1986: Southern California (32)  
1986: Case Western (53)  
1988: Vanderbilt (36)  
1990: Chicago (8)  
1992: Columbia (7)  
1994: Berkeley (2)

## **Other US Universities**

1948: William and Mary  
1952: NJ College for Women  
1983: SUNY Genesco  
1984: Mississippi  
1985: Ball State  
1993: Brigham Young (112)  
1994: Northern Illinois  
2005: Clark Atlanta

# Consequences of the Web

- Incremental change
  - Digital delivery
  - Commodity Web browser
- Transformational change
  - Free integrated end-user search experience
  - Unlimited free perfect reproduction
  - Instantaneous free global communication
  - Previously unimaginable scale
- The great reversal
  - From scarce information to scarce attention



# US LIS Programs in Top-100 Universities

## US LIS Program in an iSchool

UCLA (11)  
Washington (14)  
Wisconsin-Madison (15)  
Michigan (18)  
Illinois (19)  
Maryland (28)  
Texas (29)  
UNC Chapel Hill (30)  
Rutgers (37)  
Pittsburgh (38)  
Arizona (45)  
Indiana (50)  
Florida State (70)  
Tennessee (70)  
Kentucky (90)  
Missouri-Columbia (90)  
South Florida (90)

## Other US LIS Programs

Hawaii (55)  
Iowa (55)  
Alabama (70)  
Louisiana State (70)  
SUNY Buffalo (90)  
South Carolina (90)

# US iSchools with No LIS Program

## Former LIS programs

- UC Berkeley (2)
- Carnegie Mellon (39)

## Others

- Cornell (10)
- Colorado-Boulder (24)
- Pennsylvania State (31)
- UC Irvine (32)
- Michigan State (49)
- Georgia Tech (55)
- Maryland-Baltimore County

# 468 (of 2,200) US Universities offer 900 “Information” Masters Degrees

- 305 “Information Systems” Programs
  - IS, Management IS, Computer IS, Geographic IS, IS Management
- 118 “Information Technology” Programs
  - IT, IT Management, Business IT, Management of IT
- 106 “Informatics” Programs
  - Bioinformatics, Health informatics
- 98 “Information Science” Programs
  - Library & IS, Computer & IS, IS, Information Studies

# iSchools Outside the USA

## Europe (19)

- Czech Republic: 1
- Denmark: 1
- Finland: 1
- France: 1
- Germany: 2
- Ireland: 1
- Portugal: 2
- Spain: 3
- Sweden: 1
- United Kingdom: 6

## Elsewhere (17)

- Australia: 3
- Canada: 3
- China: 3
- Israel: 1
- Korea: 3
- Japan: 1
- Singapore: 1
- Turkey: 1
- Uganda: 1

# Maryland's iSchool Faculty

## **LIS-Focused**

- Policy
  - John Bertot
  - Ursula Gorham
  - Paul Jaeger
- Youth Experience
  - June Ahn
  - Tammy Clegg
  - Mega Subramaniam
  - Ann Weeks
- Information Organization
  - Katy Lawley

## **Humanities-Focused**

- Archives
  - Ken Heger
  - Michael Kurtz
  - Richard Marciano
  - Ricky Punzalan
  - Katie Shilton
- Digital Humanities
  - Kari Kraus

# Maryland's iSchool Faculty

## **Social Science Focus**

- Communications
  - Beth St .Jean
  - Yla Tausczik
  - Jessica Vitak
  - Andrea Wiggins
  - Susan Winter
- Information Management
  - Brian Butler
  - Vedat Diker
  - Kanti Srikantaiah
  - Ping Wang
  - Kathy Weaver

## **Technology-Focused**

- Human-Computer Interaction
  - Marshini Chetty
  - Allison Druin
  - Niklas Elmqvist
  - Leah Findlater
  - Jenny Preece
- Human Language Technology
  - Doug Oard
- Social Networks
  - Vanessa Frias-Martinez
  - Jen Golbeck

# Behind the Numbers

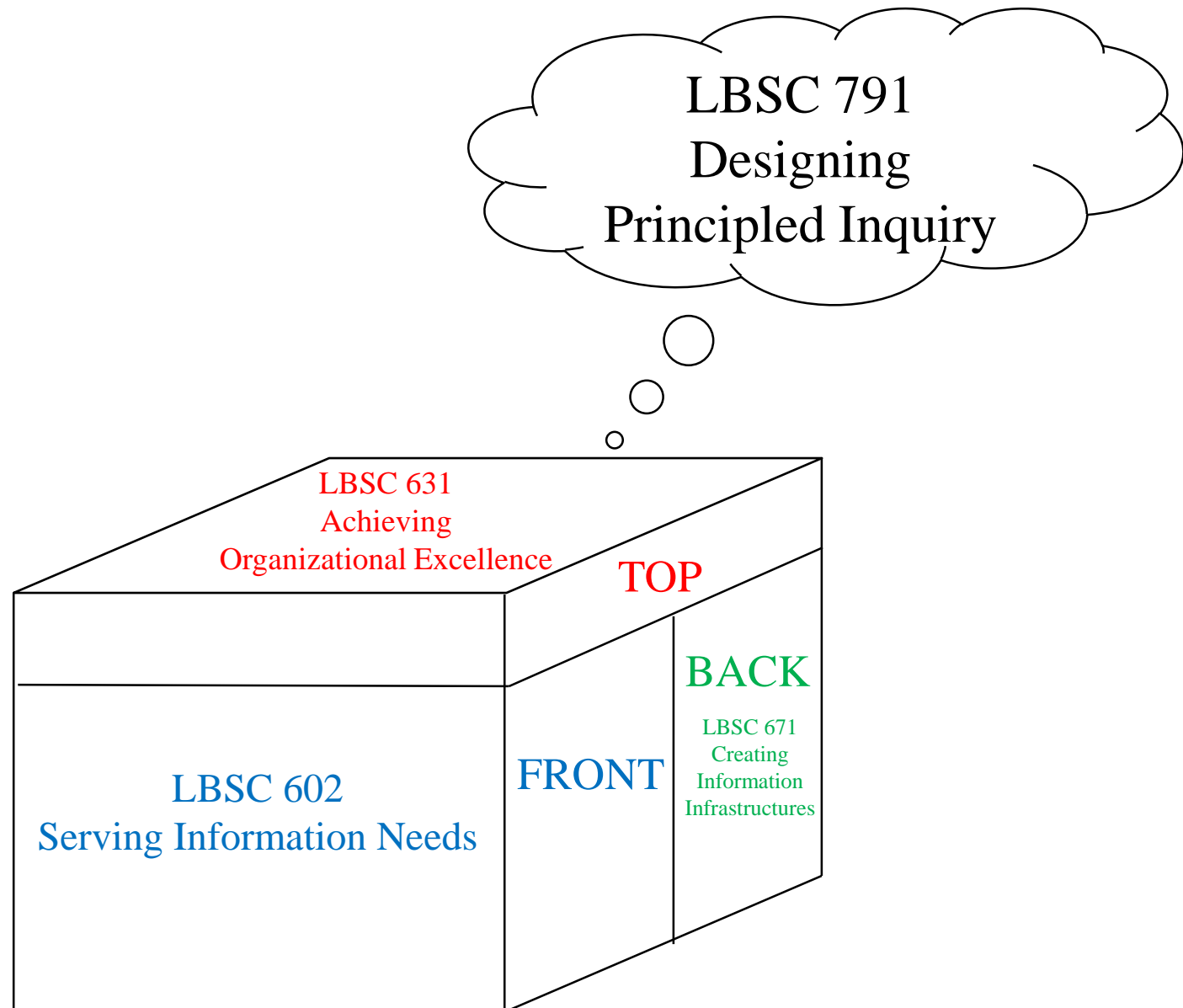
- Information policy
- Intergenerational design teams
- Value-sensitive design
- Online communities
- Technology adoption

# Degree Programs

- Bachelor of Science in Informatics (f2f: from 2016)
- Master of Library Science (f2f, online)
  - Libraries
  - School Libraries
  - Archives and Records Management
- Master of Information Management (f2f, online)
- M.S. in Human-Computer Interaction (f2f)
- Ph.D. in Information Studies (f2f)



# The MLIS Core



# The MLS Program

- Specializations

- Top {
  - School Library
  - Archives, Records, and Information Management
    - History and Library Science dual degree program
  - Government Information Management & Services
- Front {
  - Information and Diverse Populations
- Back {
  - Curation and Management of Digital Assets

- Unspecializations

- Thesis option
- Individualized Program Plan

# Example Research Projects

- Diffusion of Technical Innovation
- Preserving Virtual Worlds
- Public Libraries and the Internet
- Kids Team
- E-Discovery
- International Childrens' Digital Library
- Ethical Design for Named Data Networking