Introduction to NDLTD and Brief History of the ETD Movement

ETD 2012: 15th Int'l Symposium on ETDs
Lima: ETDs for Rookies

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Outline

- **Acknowledgements**

- Digital Libraries

- NDLTD

- Background for Future Work

- Summary

Acknowledgements

- Family, mentors, teachers, students

- All those working with ETDs

- NDLTD, including its Members, Board, and Committees

- ETD 2012 Conference Team

- Sponsors

- Presenters, Attendees

Acknowledgements (2): Mtgs

- 1987 mtg in Ann Arbor: UMI, VT, Arbortext, Softquad
- 1992 mtg in Washington: CNI, CGS, UMI, VT + 10U's
- 1993 mtg in Atlanta: Monticello Electronic Library
- 1994 mtg at VT: std: PDF + SGML + multimedia
- 1996 mtg with funding by SURA and then also by the US Dept. of Education (FIPSE)
- 1997 meetings in UK, Germany, ...
- 1998 – 1st symposium – Memphis (20)
- 1999 – 2nd symposium – Blacksburg (70)
- 2000 – 3rd symposium – St. Petersburg, FL (225)
- 2001 – 4th symposium – Caltech, Pasadena (200)
- 2002 – 5th symposium – BYU, Provo, Utah

Cont'd …

Acknowledgements (3): Mtgs

- 2003 – NDLTD incorporated as int'l non-profit
- 2003 – 6th symposium – Berlin (215)
- 2004 – 7th symposium – U. Kentucky
- 2005 – 8th symposium – Sydney, Australia
- 2006 – 9th symposium – Quebec City, Canada
- 2007 – 10th symposium – Uppsala, Sweden
- 2008 – 11th symposium – Aberdeen, Scotland
- 2009 – 12th symposium – Pittsburgh, PA
- 2010 – 13th symposium – Austin, TX
- 2011 – 14th symposium – Cape Town, S. Africa

Outline

- Acknowledgements
- **Digital Libraries**
  - **Including ePrints, DSpace, Fedora**
  - **Including (institutional) repositories**
  - **Incl. Content/Courseware Management Systems**
  - **Personal -> Group -> Publisher -> Global**
- NDLTD
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Degree of Structure

Web   DLs   DBs

$\longleftrightarrow$

Chaotic   Organized   Structured

Informal 5S & DL Definitions

DLs are complex systems that

- help satisfy info needs of users (**societies**)
- provide info services (**scenarios**)
- organize info in usable ways (**structures**)
- present info in usable ways (**spaces**)
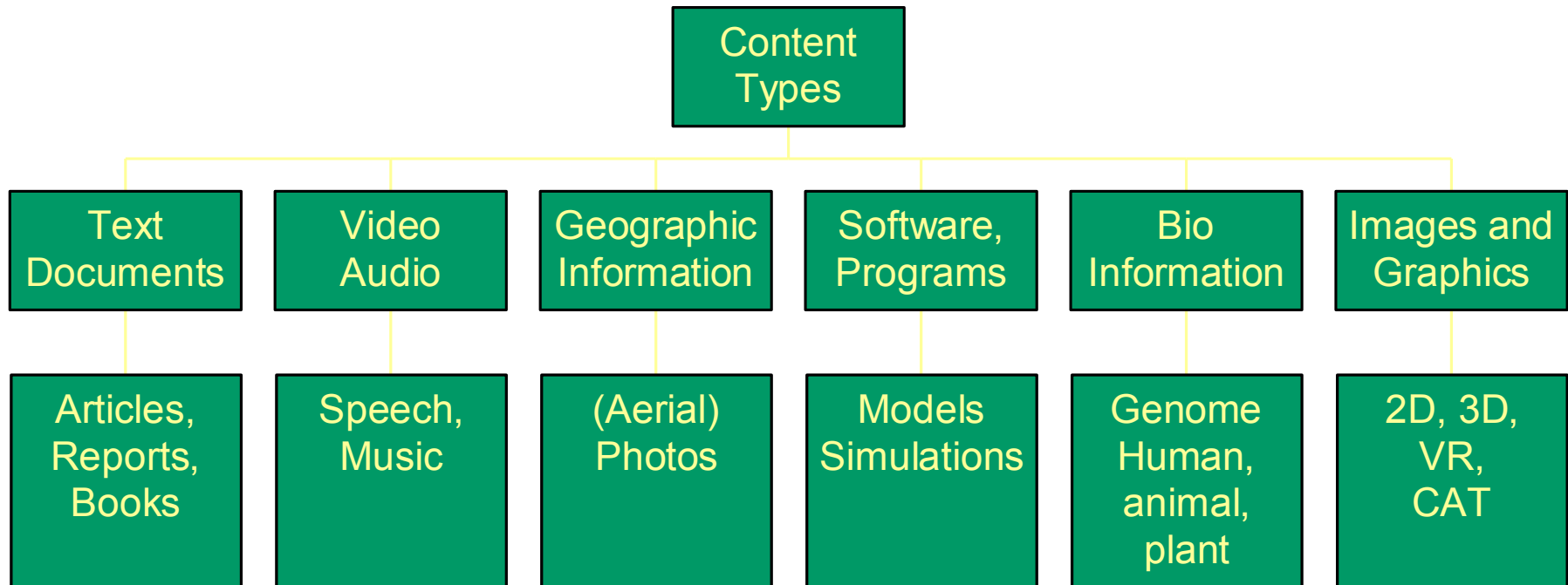- communicate info with users (**streams**)

DLs Support Many User Roles

Roles

Students

Advisors

Readers

User

Teachers

Learners

Researchers

Librarians
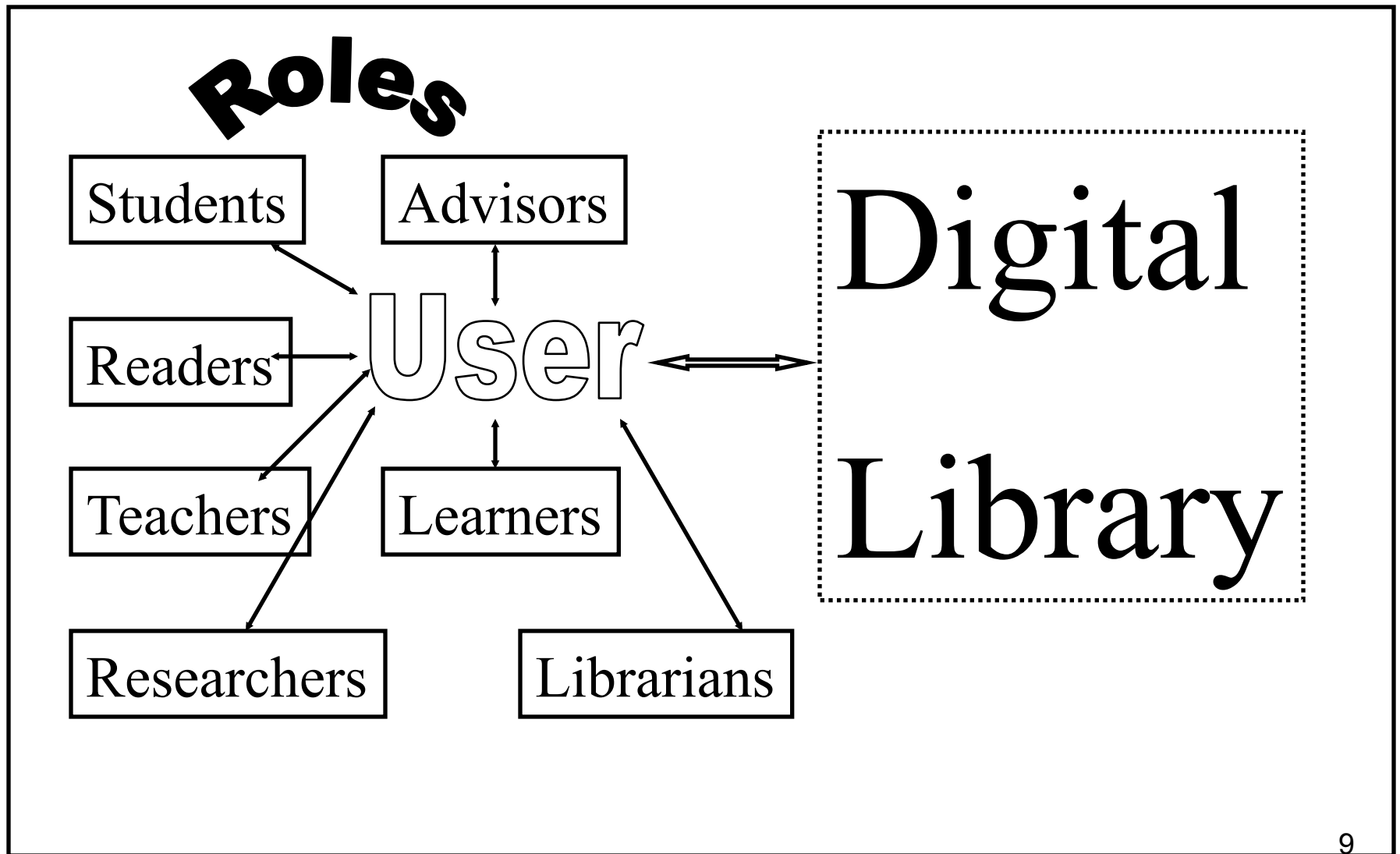
Digital Library

Digital Libraries (DLs) -- Objectives

- World Lit.: 24hr / 7day / from desktop
- Ubiquitous
- Integrated "super" information systems
- Usable, Useful
- Higher Quality, Lower Cost
- Education, Knowledge Sharing, Discovery
- Disintermediation -> Collaboration
- Universities Reclaim Property
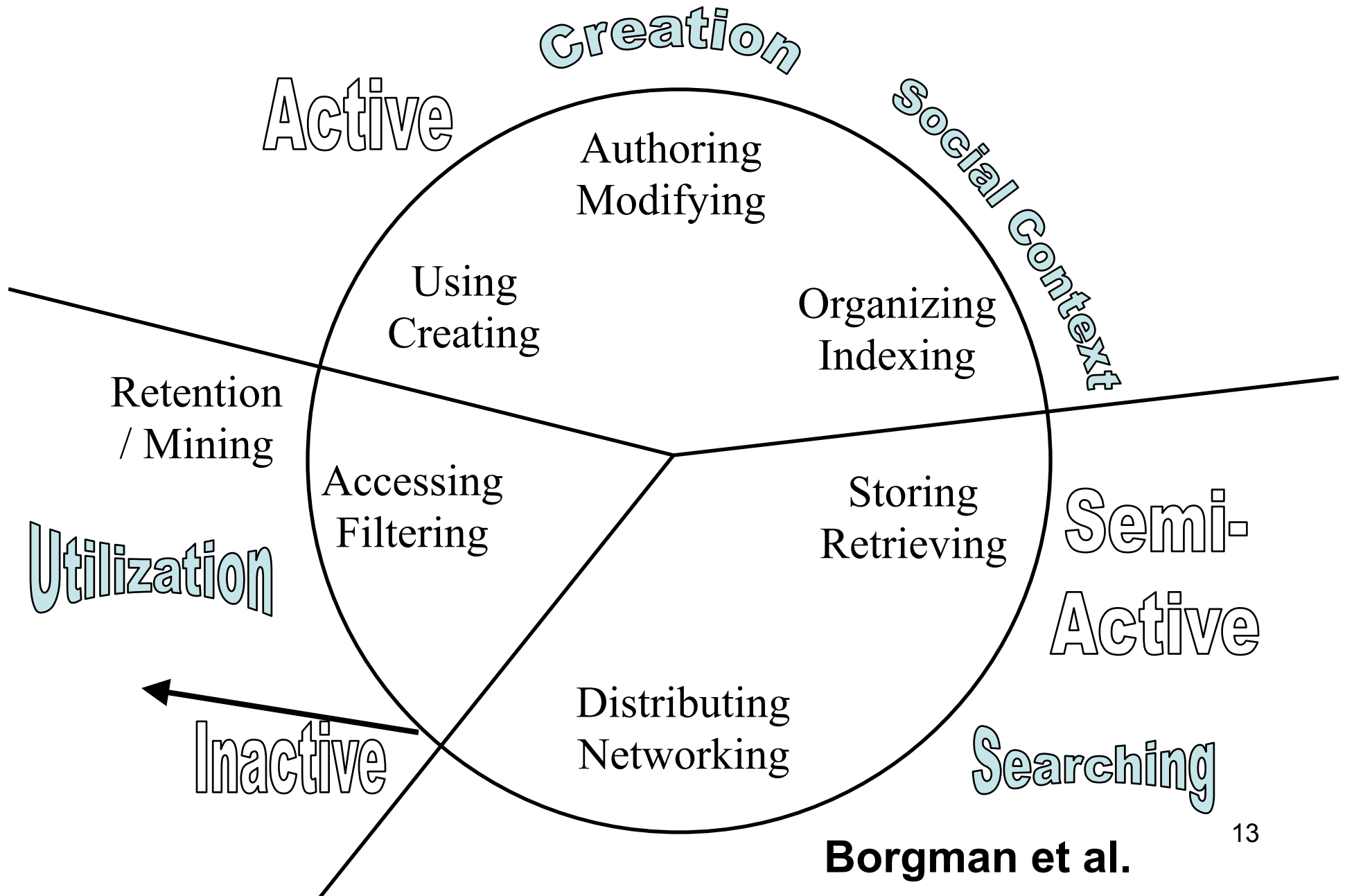- Interactive Courseware, Student Works

Why of Global Interest?

- **National projects** can preserve antiquities and heritage: cultural, historical, linguistic, scholarly

- Knowledge and information are essential to economic and technological **growth, education**

- DL - a **domain for international collaboration**
  - wherein all can **contribute** and **benefit**
  - which leverages investment in **networking**
  - which provides useful **content** on Internet & WWW
  - which will **tie nations and peoples together** more strongly and through **deeper understanding**
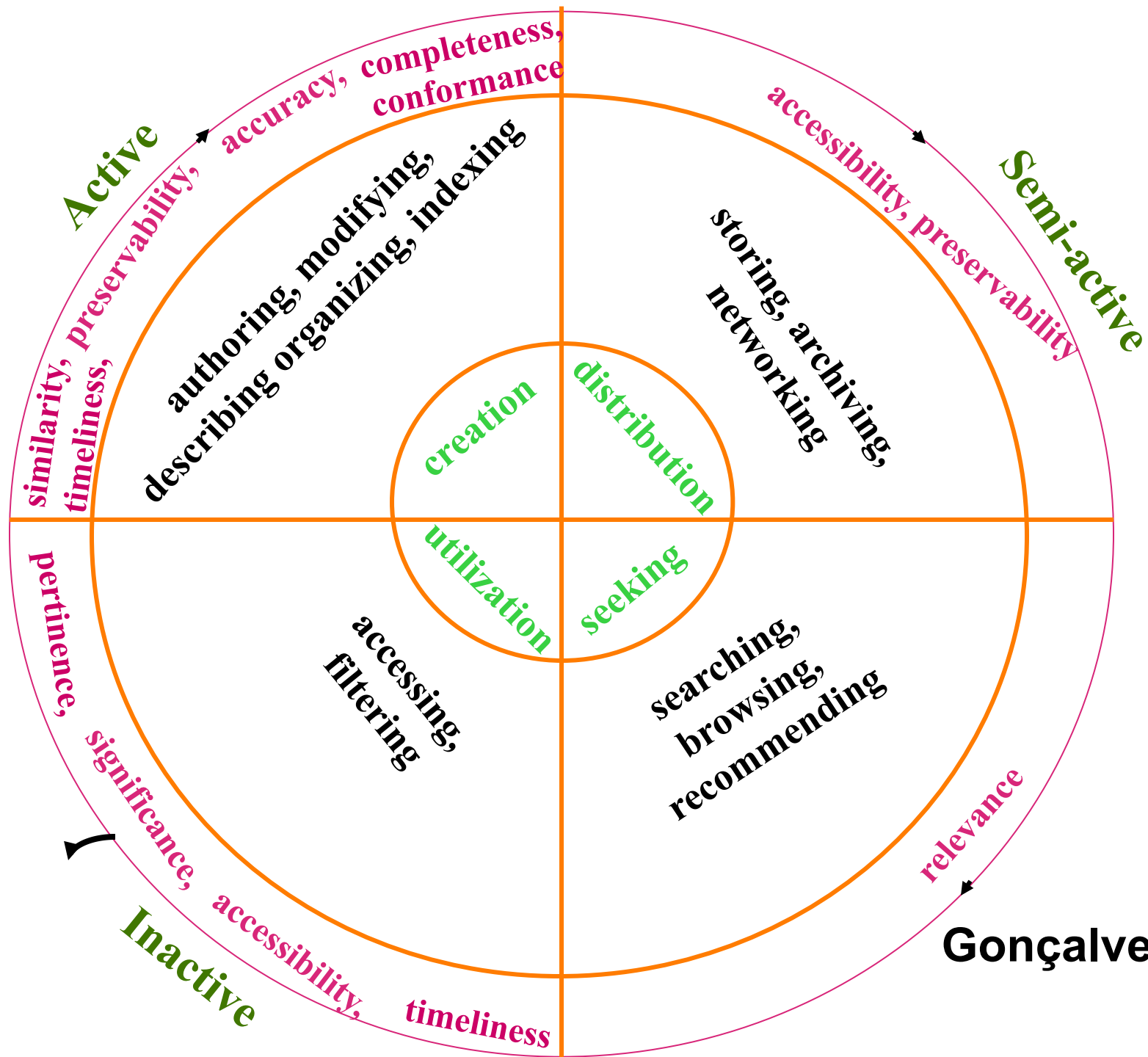
Digital Library Content

```
                        ┌──────────────┐
                        │   Content    │
                        │    Types     │
                        └──────────────┘
```

Text Documents	Video Audio	Geographic Information	Software, Programs	Bio Information	Images and Graphics
Articles, Reports, Books	Speech, Music	(Aerial) Photos	Models Simulations	Genome Human, animal, plant	2D, 3D, VR, CAT

Information Life Cycle

Authoring
Modifying

Using
Creating

Organizing
Indexing

Retention
/ Mining

Accessing
Filtering

Storing
Retrieving

Distributing
Networking

Creation

Social Context

Active

Semi-Active

Utilization

Inactive

Searching

Borgman et al.

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Infrastructure Services			Information Satisfaction Services
Repository-Building		**_Add Value_**	
Creational	Preservational		
Acquiring	Conserving	Annotating	Browsing
Cataloging	Converting	Classifying	Collaborating
Crawling (focused)	Copying/Replicating	Clustering	Customizing
Describing	Emulating	Evaluating	Filtering
Digitizing	Renewing	Extracting	Providing access
Federating	Translating (format)	Indexing	Recommending
Harvesting		Measuring	Requesting
Purchasing		Publicizing	Searching
Submitting		Rating	Visualizing
		Reviewing (peer)	
		Surveying	
		Translating (language)	

Active

Semi-active

Inactive

accuracy, completeness, conformance

accessibility, preservability

similarity, preservability, timeliness,

pertinence, significance, accessibility, timeliness

relevance

authoring, modifying, describing organizing, indexing

storing, archiving, networking

creation

distribution

utilization

seeking

accessing, filtering

searching, browsing, recommending

Gonçalves et al.

Institutional Repositories - 1

- "Institutional repositories are digital collections that capture and preserve the intellectual output of a single university or a multiple institution community of colleges and universities."

- Crow, R. "Institutional repository checklist and resource guide", SPARC, Washington, D.C., USA

- www.arl.org/sparc/IR/IR_Guide_v1.pdf

Institutional Repositories - 2

- "A university-based institutional repository is a set of services that a university offers to the members of its community for the management and dissemination of digital materials created by the institution and its community members. It is most essentially an organizational commitment to the **stewardship** of these digital materials, including long-term preservation where appropriate, as well as organization and access or distribution."

- Lynch, C.A. In ARL Bimonthly Report 226, pp. 1-7, Feb. 2003, www.arl.org/newsltr/226/ir.html
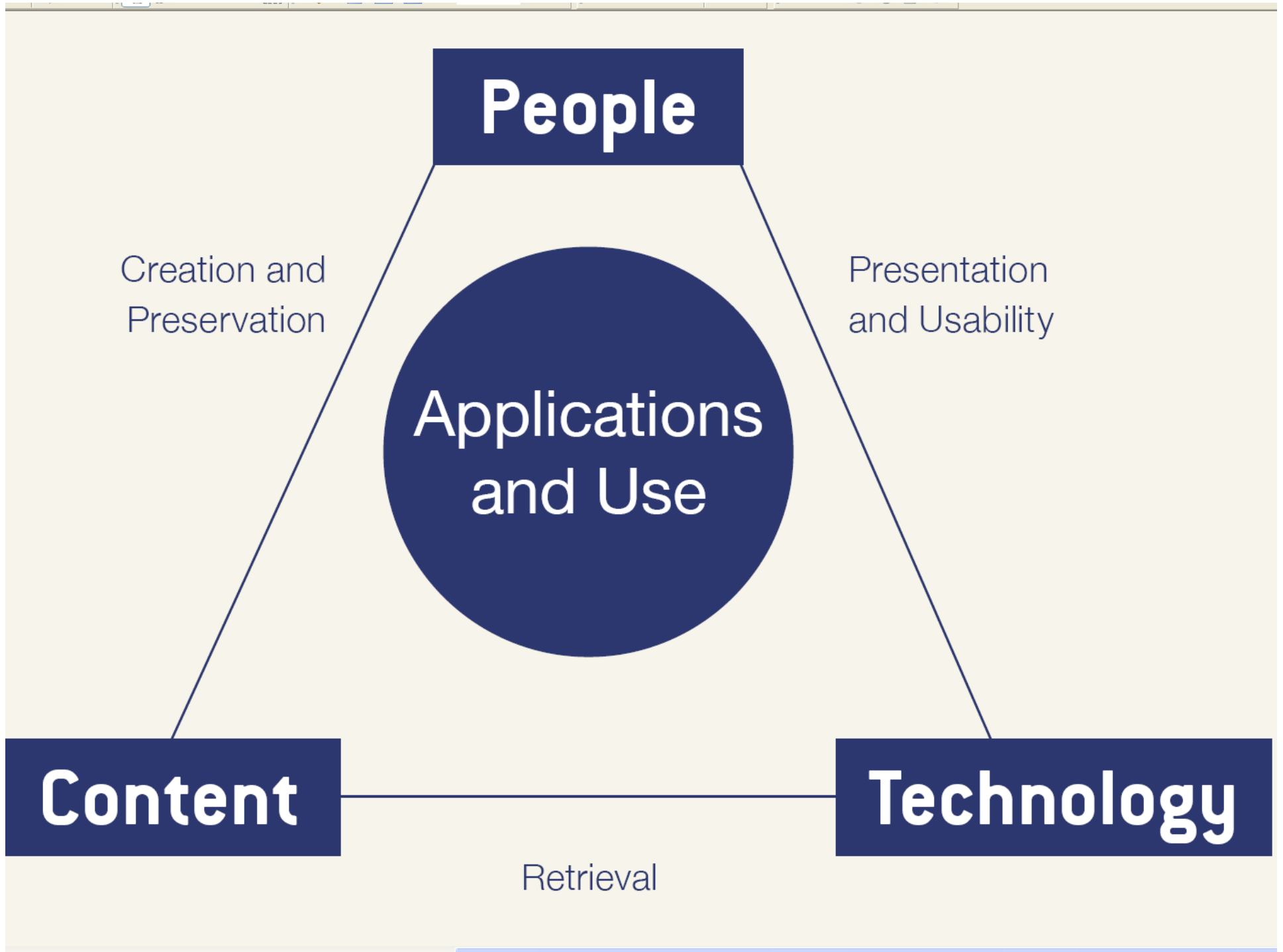
For More Information (Examples)

- **Magazine**: www.dlib.org
- **Books**: Online: Fox, http://fox.cs.vt.edu/DLSB.html (1993)
  - MIT Press: Arms (1999), Bishop (2003), Borgman (2003, 2010), Licklider (1965)
  - Morgan Kaufmann: Witten... (several), Lesk (2nd edition)
  - Fox 2012: Morgan Claypool (short) + ? (long)
- **Conferences**
  - ICADL: http://www.icadl.org
  - JCDL: http://www.jcdl.org
  - TPDL: http://www.tpdl2012.org
- **Associations**
  - ASIS&T DL SIG: http://www.asis.org/SIG/dl.html
  - IEEE TCDL: http://www.ieee-tcdl.org
- **NSF**: http://www.dlib.org/dlib/july98/07griffin.html
- **Labs**: Cape Town: http://www.cs.uct.ac.za/research/dll, VT: http://www.dlib.vt.edu, TAMU: www.csdl.tamu.edu/

Outline

- Acknowledgements

- Digital Libraries

- **NDLTD**

- Background for Future Work

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NDLTD: www.ndltd.org

- N D Ltd or Noodle TD

- Vision: Every thesis and dissertation in the world is:

  – Devised to take advantage of the most helpful electronic publishing methods

  – Shared globally and easily found

  – Supported by a suite of digital library services to aid authors, researchers, learners, universities

  – Preserved and migrated permanently

ETDs: Library Goals

- Improve library services
  - Better turn-around time
  - Always available
- Reduce work
  - catalog from e-text
  - eliminate handling: mailing to commercial contractor, bindery prep, check-out, check-in, reshelving, etc.
- Save space

What are we doing?

- Aiding universities to enhance graduate education, publishing, and Intellectual Property Rights efforts

- Helping improve the availability and content of theses and dissertations

- Educating ALL future scholars so they can publish electronically and effectively use digital libraries (i.e., are Information Literate / Fluent, and can be more expressive)

The Guide to Electronic Theses & Dissertations

UNESCO

| The ETD Guide | ETD Models | ETD Resources | Collaborate |
| About this site | The ETDGUIDE [Word] | NDLTD | About the Authors |

Français   Español   **ETD Web Blog**   **ETD WIKI**   Download a printable version of this site.

Welcome to *The Guide for Electronic Theses and Dissertations*. We offer this site as a resource for graduate students who are writing theses or dissertations, for graduate faculty who want to mentor ETD authors, for graduate deans who want to initiate ETD programs, and for IT administrators at universities. *The Guide* is designed specifically for academic researchers and their mentors, yet anyone interested in research and e-publishing will enjoy this resource.

Published by UNESCO*, The Guide* is an international, "living" document, written by ETD (electronic thesis and dissertation) scholars throughout the world (see About the Authors). *The Guide* will be updated regularly based on submissions by ETD authors and NDLTD members.

We invite you to contribute essays describing your university's best ETD practices, to suggest ETD Resources, or to nominate ETDs for our Exemplary ETD Database.

This site requires Adobe Acrobat Reader -   Get Acrobat Reader

[ETD Guide] [ETD Models] [ETD Resources] [Collaborate] [About this Site] [Chat] [NDLTD] [About the Authors]

NDLTD Incorporation

- Networked Digital Library of Theses and Dissertations incorporated May 20, 2003 in Virginia, USA

- Charitable and educational purposes (501 c 3)

- Officers (now)
  - Executive Director (Ed Fox, fox@vt.edu)
  - Secretary (Sharon.reeves@rogers.com)
  - Treasurer (Austin.McLean@proquest.com)

Mission

- The Networked Digital Library of Theses and Dissertations (NDLTD) is an international organization that, through leadership and innovation, promotes the adoption, creation, dissemination, use, and preservation of electronic theses and dissertations (ETDs).

- The NDLTD encourages and supports the efforts of institutions of higher education & their communities
- to advance and apply electronic publishing & digital libraries (including repositories), thus enabling them
- to share knowledge more effectively in order
- to unlock the potential benefits worldwide.

How You Can Participate

- Primarily, a volunteer organization

- Local and regional activities

- NDLTD Committees (including):

  – Awards, Communications,

  – Conferences, Membership

Networked Digital Library of Theses and Dissertations - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back | Search Favorites

Address

http://www.ndltd.org/serviceproviders/scirus-etd-search Go Links »

Google | G Search | PageRank 189 blocked | Check | AutoLink | AutoFill Options

Scirus ETD Search

This search service is provided courtesy of **Scirus**, based on data harvested from the Union Archive hosted by OCLC.

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ETDS IN THE NEWS

CONTACT NDLTD

ADMIN LOGIN

GO TO OTHER LANGUAGE:
Select Language

Basic Search

Query : [   ] Search   powered by SCIRUS

Advanced Search

All of the words [   ] in The complete document

AND

All of the words [   ] in The complete document

AND

All of the words [   ] in The complete document

Only show results published between

1900 and 2012

Only show results in

☑ All subject areas   ☐ Agriculture and Biological Sciences
☐ Astronomy   ☐ Chemistry and Chemical Engineering
☐ Earth and Planetary Sciences ☐ Economics, Business and Management
☐ Engineering, Energy and Technology ☐ Environmental Sciences
☐ Languages and Linguistics   ☐ Law
☐ Life Sciences   ☐ Materials Sciences
☐ Mathematics   ☐ Medicine
☐ Neuroscience   ☐ Pharmacology
☐ Physics   ☐ Psychology
☐ Social and Behavioral Sciences ☐ Sociology

Only search in the following collection

⊙ ETDs   ○ The Scholarly Web

Done   Internet

start | Your i-Hotel Portal... | Networked Digital... | fox | talks | todo - Notepad | IEEE-TCDL - Micro... | 20060608ETDopen | Dell Media Experi...   2:46 AM
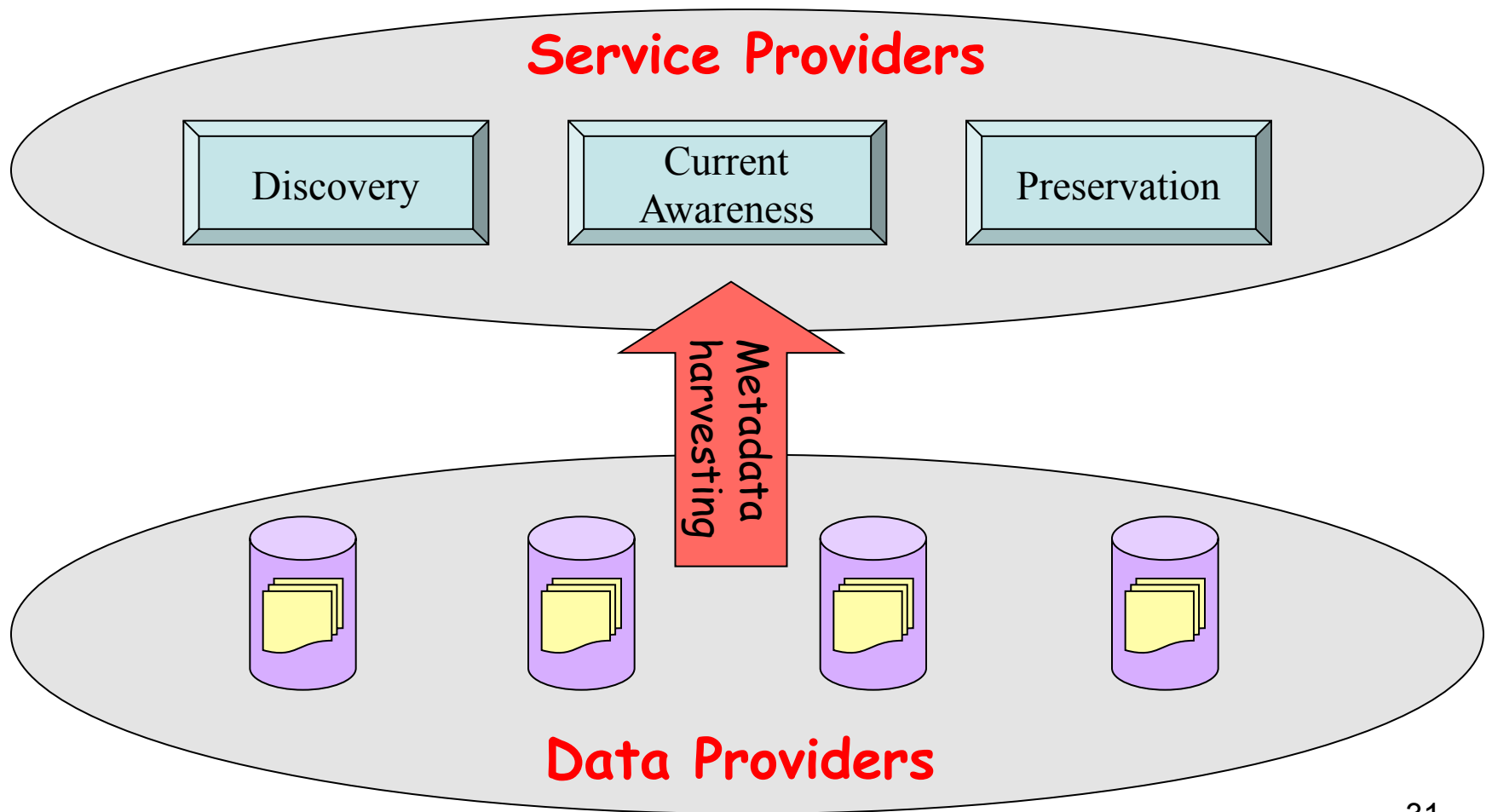
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Background for Future Work

- Electronic Publishing

- Computer Literacy/Fluency -> Computational Thinking

- Scholarly Communication

- Open Access

- Institutional Repositories
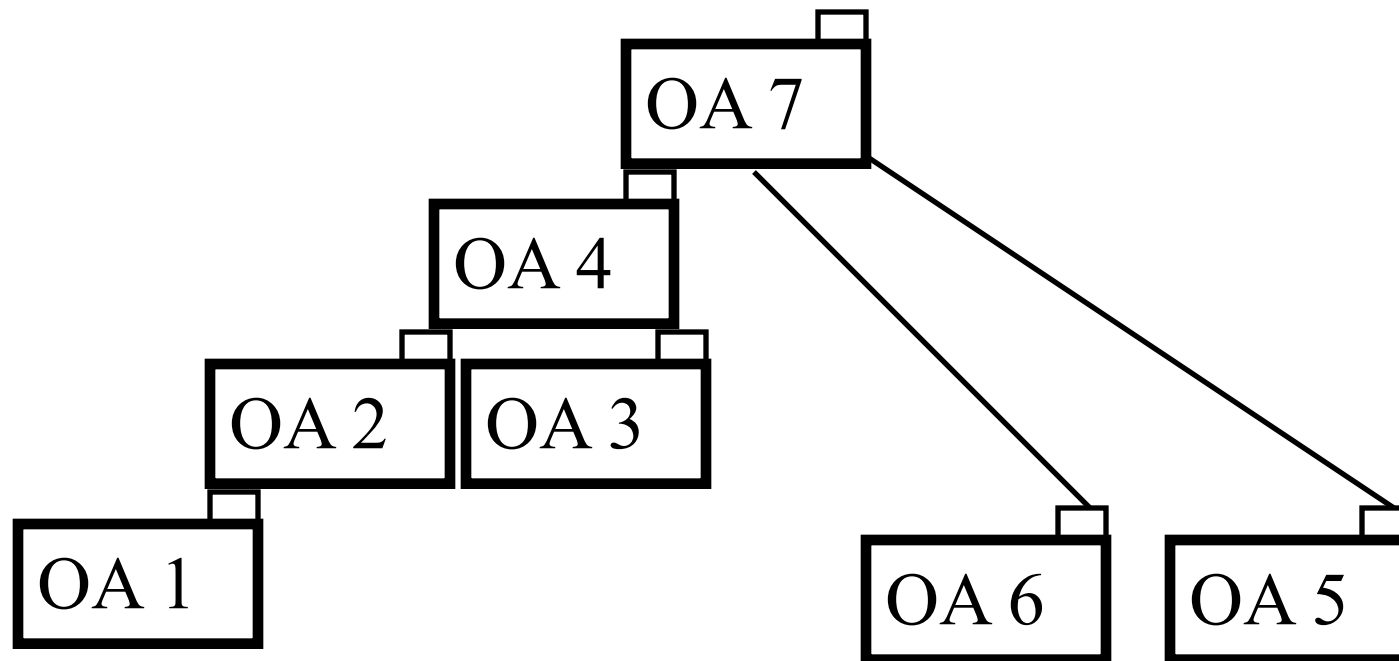
- Open Archives Initiative (OAI)
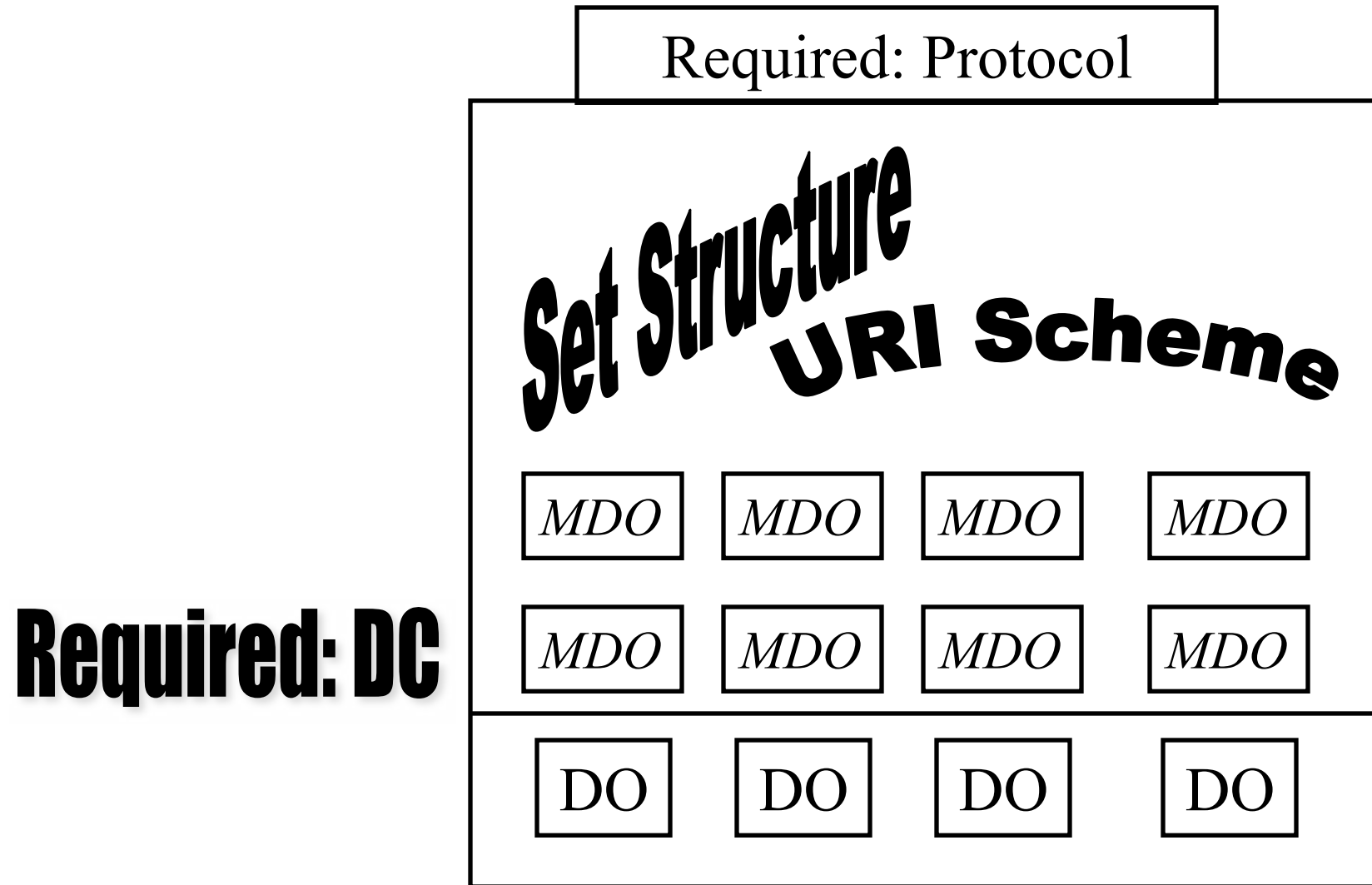
The World According to OAI

Metadata Objects (MDOs)

- MARC
- Dublin Core -> ETD-MS
- RDF
- OAI (Open Archives Initiative): PMH, ORE
- Crosswalks, mappings
- Ontologies, Classification systems

OAI – Black Box Perspective

OAI – Repository Perspective

Required: Protocol

Set Structure

URI Scheme

Required: DC

| MDO | MDO | MDO | MDO |
| MDO | MDO | MDO | MDO |

| DO | DO | DO | DO |

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Why ETD? Short Answer

- ## For Students:
  - Gain knowledge and skills for the Knowledge Society
  - Richer communication (digital information, multimedia, …)

- ## For Universities:
  - Easy way to enter the digital library field and benefit thereby ("no brainer" entrée into institutional repositories)

- ## For the World:
  - Global digital library – large, useful, many services

- ## General:
  - Save time and money
  - Increased visibility for all associated with research results

Questions?
Discussion?
Recommendations?

Thank You!

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