

The New Digital Library of the Commons

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LIBRARIES

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Bloomington



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Main Content Area

- Brief History of the Commons
- Technical Overview of the DLC
- The Public Interface
- Contributing Data
- Image Database
- Future Work



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Workshop in Political Theory & Policy Analysis

- Founded in January 1973 by Vincent and Elinor Ostrom

[http://www.indiana.edu/~workshop/publications/other/
index.php](http://www.indiana.edu/~workshop/publications/other/index.php)

- A library was maintained by the Ostrom's until 1985
- Hired a part-time librarian to start collecting materials related to common pool resources



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Workshop Library

- Today, the Library is housed on the 3rd floor of the Workshop's main building, with collections spreading into seven more rooms in other Workshop buildings
- Holdings:
 - 6,700 Books
 - 25,000 Reprint Files
 - Weight restrictions = in the process of weeding journals that we have electronic access to through Wells



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Reprint Files

- Contain unpublished literature
 - Working papers
 - Conference papers
 - Internal reports
 - Manuscript drafts
 - Dissertations
- Many important case studies published at the local level only



What is 'the Commons'?

- 'the commons':
 - shared resource
 - vulnerable to enclosure, degradation, or social dilemmas
 - has to be managed
 - management/governance requires collective action
- The research focuses on the relationship between ecosystems, natural resources, and human management decisions



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Digital Library of the Commons

- An innovative multifaceted digital library intended to serve as a gateway to the international literature on the commons and common pool resources (CPR)
- Purpose is to make up-to-date & historical CPR materials globally available to developing countries as well as to the developed world



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Digital Library of the Commons

- Started as an outgrowth of the International Association for the Study of the Commons' (IASC) Virtual Library of the Commons in 1996
- Fall 1999 – collaboration between the DLP and workshop started with working on the design and implementation
 - would contain digitized documents from the Workshop Library, and also serve as a self-publication portal for scholars working on Commons issues



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1999 Organizing team

- A Collaboration of the Libraries, UITS and the DLP
 - Gerry Bernbom,
 - Director of Research Computing at UITS
 - Kris Brancolini
 - Director of the Digital Library Program
 - Jon Dunn
 - Associate Director of Technology for the Digital Library
 - Charlotte Hess
 - Librarian, Workshop in Political Theory and Policy Analysis



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Digital Library of the Commons

- Jan. 2000—implemented a prototype of the DLC using IBM's Content Manager
 - Started with 166 electronic papers & 40 scanned papers
 - Prototype was tested & reviewed by attendees of the IASC conference held at IU, June 2000
- Jan. 2001— replaced IBM software with EPrints
 - became fully operational with the self-publication portal in Aug. 2001



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Digital Library of the Commons

- July 2003-June 2006 – received a grant from the Andrew W. Mellon Foundation, through which we:
 - Hired a dedicated computer programmer to maintain, update and develop the system
 - Digitized published & unpublished full-text seminal literature on the commons
 - Developed, populated and implemented the Image Database



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Image Database

Digital Library of the Commons - Image Collections >> Results - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://dlcvm.dlib.indiana.edu:8080/DLCImage/search.do?subject=Country&action=browse&Country_text=Nepal

Search: refine results new search Change Display: thumbnail & caption

Total Record: 285

Browse Suggestions


Country
Nepal

Keyword
[agriculture](#)
[Babai River](#)
[banana tree](#)
[beekeeping](#)
[Buddhism](#)


[More terms](#)

Region
Middle East &
South Asia

Sector
[Agriculture](#)
[Forestry](#)
[Resources](#)
[Land Tenure & Use](#)
[New Commons](#)
[Social](#)

 Keyword: [agriculture](#) [irrigation](#)
Country: [Nepal](#)
Region: [Middle East & South Asia](#)
Sector: [Water Resources & Irrigation](#) [Agriculture](#)
Photographer: [Ostrom, Elinor](#)
Caption: Jibanpur irrigation system
Abstract: Photo taken March 1993 of Jibanpur irrigation system farm fields, East Rapti, Chitwan.
Taken Date: 1993-03
[view details](#)

 Keyword: [irrigation](#) [agriculture](#)
Country: [Nepal](#)
Region: [Middle East & South Asia](#)
Sector: [Water Resources & Irrigation](#) [Agriculture](#)
Photographer: [Ostrom, Elinor](#)
Caption: Farmers digging drain
Abstract: Photo taken March 1993 of farmers digging drain channel along the farm road, Jibanpur, East Rapti, Chitwan.
Taken Date: 1993-03
[view details](#)

 Keyword: [irrigation](#)
Country: [Nepal](#)
Region: [Middle East & South Asia](#)
Sector: [Water Resources & Irrigation](#)
Photographer: [Ostrom, Elinor](#)

Done

start Digital Library of the ... Microsoft PowerPoint ... 11:35 AM Sunday



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Digital Library of the Commons

- Apr. 2007-Mar. 2010 – received 2nd grant from Mellon to further develop and ensure the long-term preservation of the DLC:
 - Developed an author database to communicate and negotiate copyright agreements
 - Continued to populate the DLC with papers
 - Migrated the DLC to more sustainable technology
 - Upgrading the Bibliography of the Commons and the Image Database



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Technology Overview

- DLC 2001 - 2009
- EPrints
 - Open Access software
 - Stevan Harnad
- DLC early adopter of EPrints
 - Release 1.0 in Nov 2000
 - New releases bi-monthly for 2 years

<http://www.eprints.org/documentation/tech/php/history.php>




Technology Infrastructure Issues

- Long term maintenance and support
 - Highly customized EPrints
 - Required specialized support
 - Manual exports and loads for the Bibliography
 - No way to integrate with the new DLP infrastructure
- New grant providing funding to explore new options



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Tech. Documentation - EPrints Hist... Digital Library Of The Commons The Digital Library of the Commons



Digital Library of the Commons

Home Browse Search User Services Submit a Document About Help

- DLC Image Collection
- Comprehensive Bibliography of the Commons
- International Journal of the Commons
- Keyword Thesaurus
- Subject Bibliographies
- Other Papers on the Commons
- Free Online Journals and Newsletters
- IASC
- Related Sites

The **Digital Library of the Commons (DLC)** is a gateway to the international literature on the commons. This site contains an author-submission portal; an archive of full-text articles, papers, and dissertations; the Comprehensive Bibliography of the Commons; a Keyword Thesaurus, and links to relevant reference sources on the study of the commons.

NEWS
The [International Journal of the Commons](#) is now available online with open access

About Commons Research

DLC is a collaborative project of the:

- [Workshop in Political Theory and Policy Analysis](#)
- [Indiana University Digital Library Program](#)

Generous funding has also been provided by the:

- [Andrew W. Mellon Foundation](#)
- [International Association for the Study of the Commons \(IASC\)](#)
- [Indiana University Research and the University Graduate School \(RUGS\)](#)

DLC uses [EPrints 2](#), open source software which is compliant to [Open Archives Initiative](#).

Last updated: 01/27/2010 00:01:07

This is an open-access digital library and archive.
Copyright for DLC documents is retained by the authors.
Use and distribution by you is subject to citation of the original source.

Questions or Comments: [Email](#) to Digital Library of the Commons

zotero

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Move to New Technologies

- Repository software analysis
 - Functionality
 - Sustainability
 - Integration with existing infrastructure
 - Ease of implementation
 - Preservation issues



DSpace

- Widely used and accepted
- Positive long term outlook for continued development
- Large support community
- Configurable
 - Interface look and feel
 - Indexes
 - Data fields



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Dspace Customization Process

- Jira for enhancement, configuration and bug management
- Tied Jira to SVN for tighter coupling of documentation and source code
- No changes to underlying code base



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Project Team

- Damian Sobieralski, programmer/analyst
- Randall Floyd, DSpace consulting
- Jenn Riley, Metadata consulting
- Julie Hardesty, User interface consulting
- Brian Wheeler, systems administration

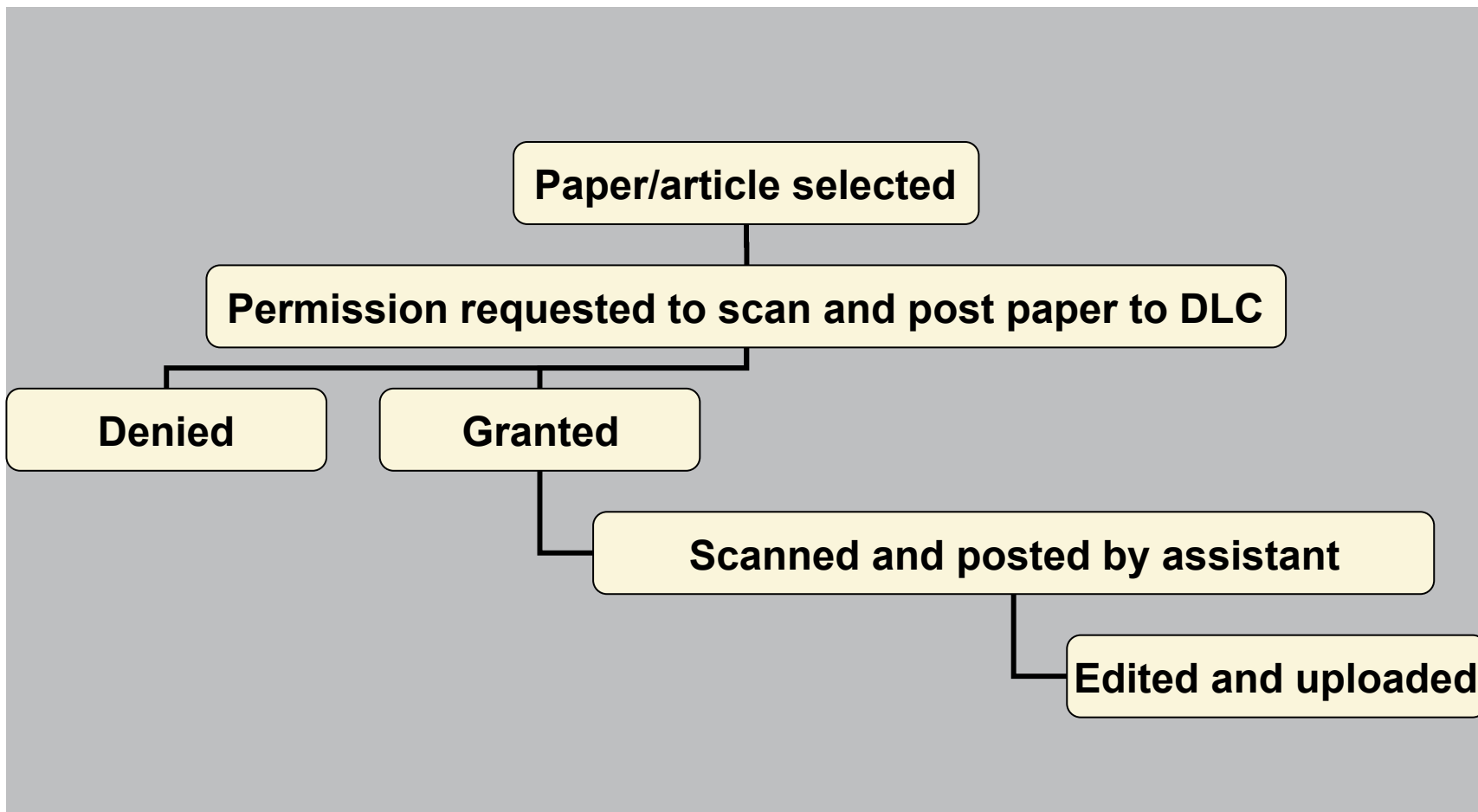


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DLC public site Demonstration



Workflow





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Image Database

- The underlying database and data entry system is based on the Cushman project
- The search and discovery interface is the work of a graduate student
 - PHP based
 - Delivery images stored on local directory
 - Master files stored on HPSS



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New Image Database

- Based on the DLP infrastructure systems and tools
- Fedora digital repository for metadata and image management
- Photo Cataloging tool for data entry
 - MODS metadata standard compliant
 - Flexible
 - Configurable



New Image Database (2)

Status

- Data mapped from old data structure to MODS
- Data exported, converted and loaded into Fedora
- Photo Cataloging Tool is configured
- Public interface to be configured in February
- General Release in March



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Image Database Demonstration



Future Grant funded Work

- Bibliography of the Commons
 - Currently a manual batch export from and import from Library Master database
 - Need to have a generalize solution for selected bibliographies.
 - Analysis for a generalized solution is underway
- Library Holdings
 - A superset of the BotC
 - Workshop would like to make entire holdings available for searching on the web.



Future of the DLC

- Continued support from the Workshop on Political Theory & Policy Analysis
 - Collection development and management
 - Papers
 - Images
 - Continued support from the DLP
 - Integrated into the infrastructure
 - Supportable technology base
 - Upgrades on a schedule



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Questions?
