EthicShare: Building an Inter-Institutional Scholarly Research Community

Kate McCready
Chad Fennell



Digital Library Federation | May 5, 2009

EthicShare in a Nutshell

- Online research environment for information discovery and collaboration for practical ethics scholars and students
- Open & free to all designed to enable collaboration between all scholars regardless of affiliation, but account creation is not restricted
- Based at: the University of Minnesota's Center for Bioethics, Libraries, and Department of Computer Science & Engineering
- Funded by the Andrew W. Mellon Foundation and the National Science Foundation, Council on Library and Information Resources



EthicShare Project Staff:

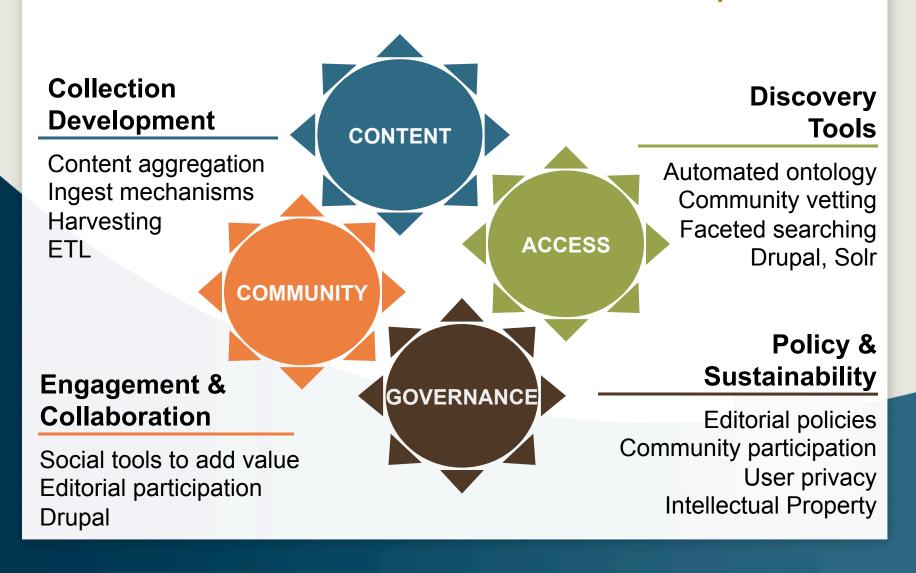
- Principal Investigators: Wendy Pradt Lougee (Uof MN Libraries), Jeffrey Kahn (U of MN Center for Bioethics) & John Riedl (U of MN Computer Science)
- Project Director: Kate McCready (U of MN Libraries)
- Technology Lead: John Butler (U of MN Libraries)
- Collections: Cecily Marcus & Stephen Hearn (U of MN Libraries); Frazier Benya (U of MN Center for Bioethics, grad student)

EthicShare

 Developers: Chad Fennell (U of MN Libraries), David Naughton (U of MN Libraries), Bill Tantzen (U of MN

Libraries)

Virtual Research Environment Components



EthicShare Partnerships

Data:

- National Library of Medicine PubMed & Catalog data
- OCLC WorldCat data

Network Services:

OCLC – Registry Services

University Centers:

- Georgetown University Bioethics Thesaurus
- Governance and Presentations at Societies by Partners from: University of Virginia, Indiana University-Bloomington, Indiana University-Purdue University, Indianapolis and Stanford University

EthicShare Development History

 2004 Scholarly Communications Institute: Held at the Council on Library and Information Resources for Bioethicists.

(Background – Bioethics Scholars are primarily humanities faculty (philosophy, theology) but the field also pulls from law, policy, medicine and public health.)

- 2005-2006 U of M Libraries Research: Studied the research behaviors and methodologies of scholars in the humanities and social sciences
 - Identified "gaps" in the research process
 - What solutions would support the advancement of a field?
 - Would collaborative tools serve the needs of serious scholars?
- "Helping Hands" project: NSF funded U of MN Computer Science and Bioethics exploring how to encourage participation in collaborative tools.

EthicShare Development History

2006-2007 EthicShare Planning Project:

- Assessment of a field
- Site visits and surveys
- Prototype of site

2008-2009 EthicShare Pilot Project:

- Build a "collection" of high quality, focused materials aggregated from a variety of source material providers
- Development of a community-supported environment
- Engage the community in the development process
- Developing process and technology models for the development of virtual research community environments.



Initial Tool and Feature Selection

Planning Grant:

- Identifying and tuning collaborative technologies for a specific community of researchers
- How do you know what you don't know? Bioethics
 Scholars didn't use collective work sites or technologies.
- Held 5 site visits
 - U of Minnesota
 - University of Indiana
 - University of Indiana Purdue University Indianapolis
 - University of Virginia
 - Georgetown University



Site Visits – Early 2007

Presentation of Social Features

- EthicShare team created a presentation of successful web-based tools and features from various sites for bioethics faculty and graduate students to see.

Discussion of Features

 During and after the presentations we discussed the reaction of these features and the idea of implementing them within the bioethics community

Survey of Interest/Knowledge

- Asked the participants to complete a 10 minute surveyicShare
- at the end of this presentation to formalize their opinions.







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- Home
- Discussion list

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- View articles
 - Recent
 - To read
- Authors and tags
- Search
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- Change password

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Search results for: bioethics

All articles on CiteULike matching your search criteria

 'Miracle in Iowa': metaphor, analogy, and anachronism in the history of bioethics.

Monash Bioeth Rev, Vol. 23, No. 3. (July 2004), pp. 6-15. by Ferber DS posted to bioethics by ladygoat as **

Ethical multiculturalism: an evolutionary concept analysis.

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untitled

posted to bioethics by schmelz as v

Live and let die? Disability in bioethics.

New Rev Bioeth, Vol. 1, No. 1. (November 2003), pp. 145-157. by Vehmas S posted to bioethics disability by Terkko as ★★

 NORTHSOUTH BENEFIT SHARING ARRANGEMENTS IN BIOPROSPECTING AND GENETIC RESEARCH: A CRITICAL ETHICAL AND LEGAL ANALYSIS

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New breeds of humans: the moral obligation to enhance.

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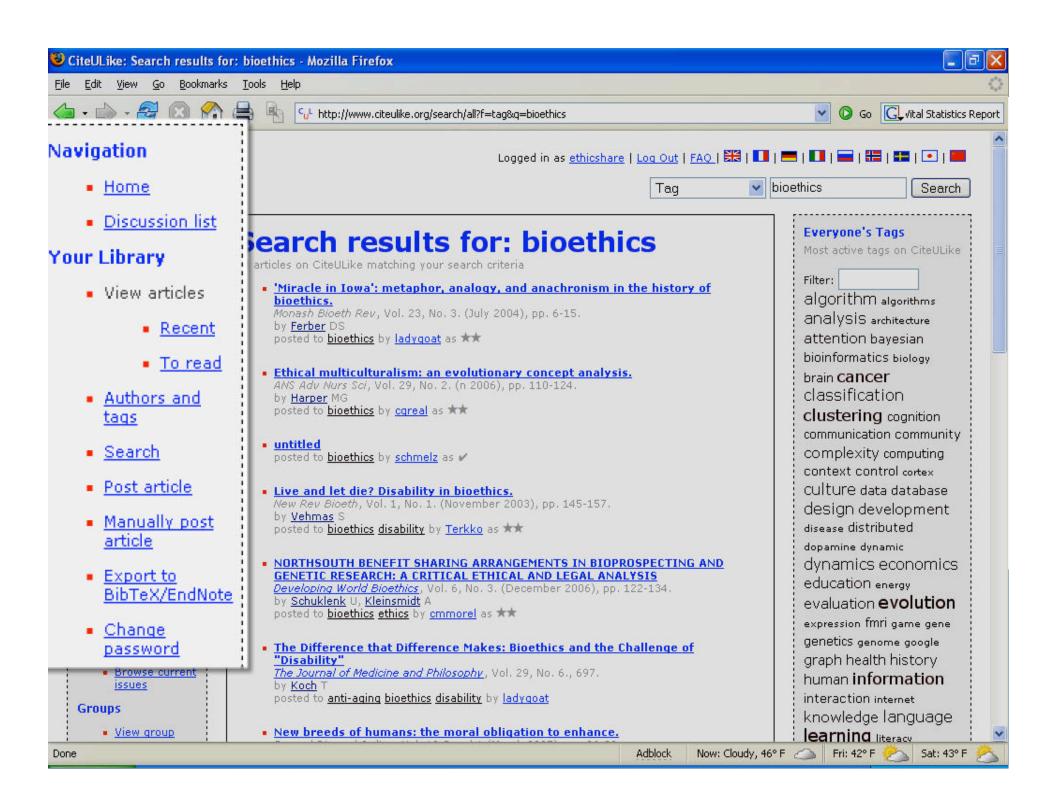
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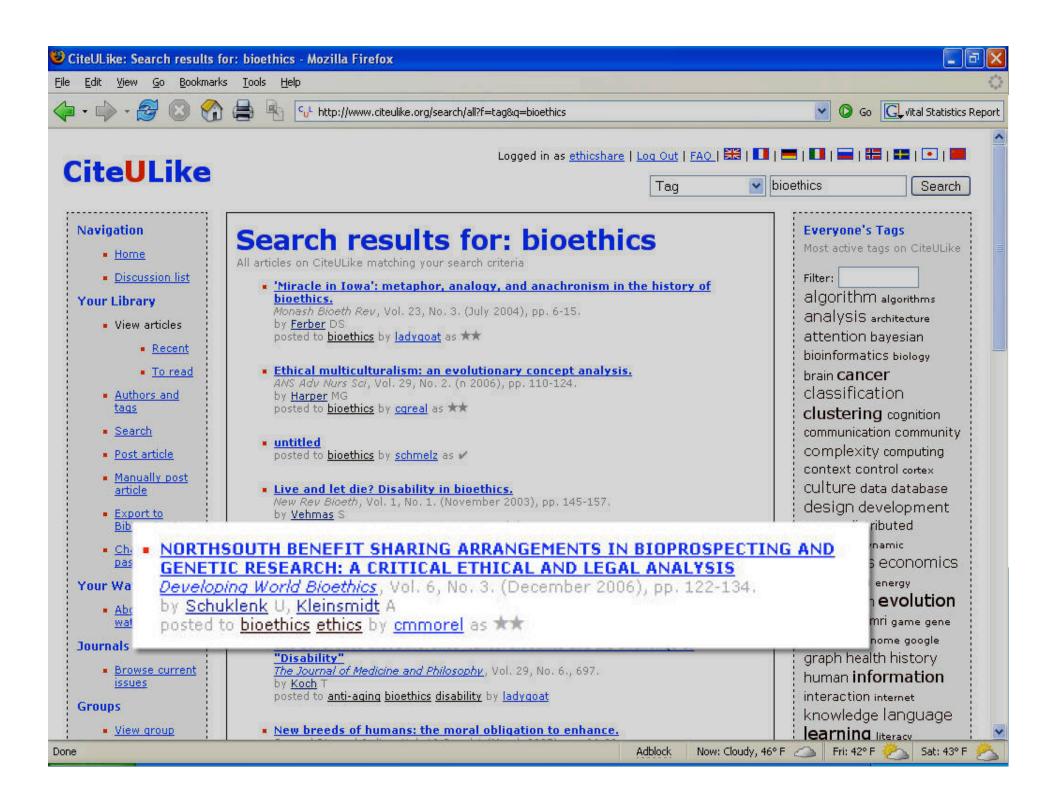
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http://www.citeulike.org/search/all?f=tag&q=bioethics

CiteULike



Tag

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(Reply)

nabostyle (2 weeks ago)

The truth will out



What is the Truth?

Who has big eye up ... (more)

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Tags Stem Cells; Stem Cell; Hwang Woo (more) http://www.youtube.com/watch?v=wNkyCcSMt

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EthicShare Survey Summary Report

Primary Site Requirements

- Access to "High Quality" materials was clearly identified as the primary desired function of the site (100% marked this as either "important" or "very important"
- Access to the full-text was critical
- Ability to have private and public work space
- Scholars collaborated with colleagues based on discipline, not necessarily location.

 EthicShare

EthicShare Survey Summary Report

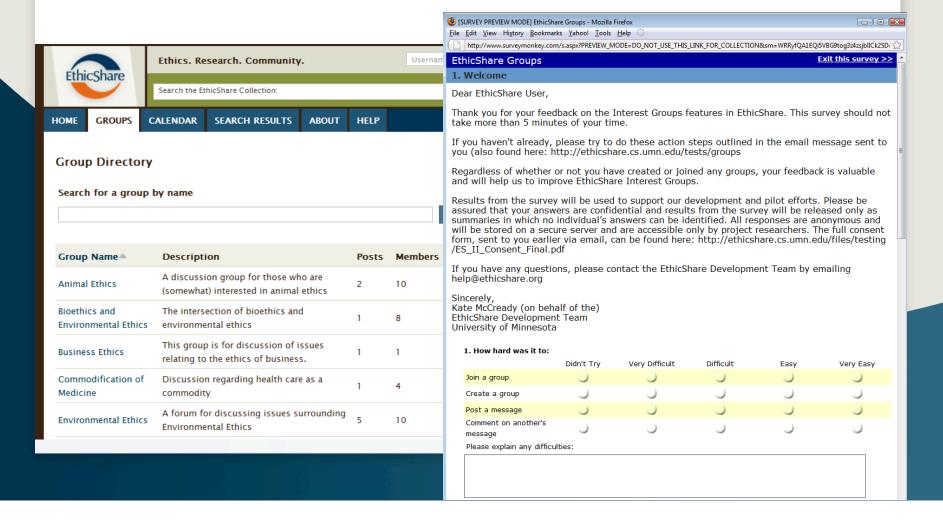
Social Features

- "Social" features weren't "very important" but rated well when "somewhat important", "important" and "very important" were totaled:
 - Get Updates via Email/RSS about New Content (77%)
 - Get Recommendations of Resources (68%)
 - Ability to Share Your Work With your Colleagues (76%)
 - Ability to Review a Resources (79%)
 - Community Discussion Space (79%)
 - Add Resources to the Site (71%)



Engage and Evaluate - Iterative Design

Beta Testing - Feedback Loops



Engage and Evaluate - Iterative Design

Usability Testing



Engage and Evaluate - Iterative Design

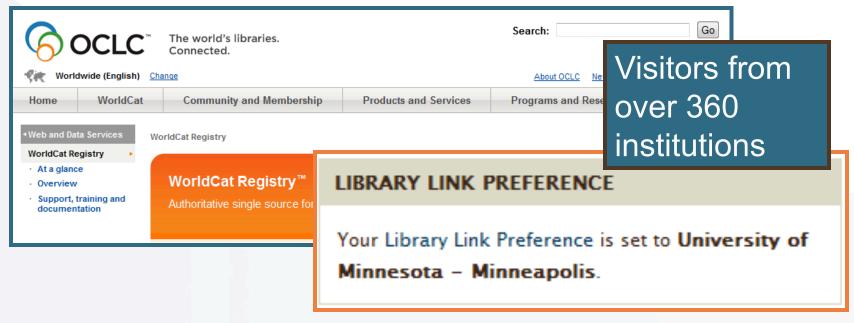
EthicShare Site Demo

http://www.ethicshare.org



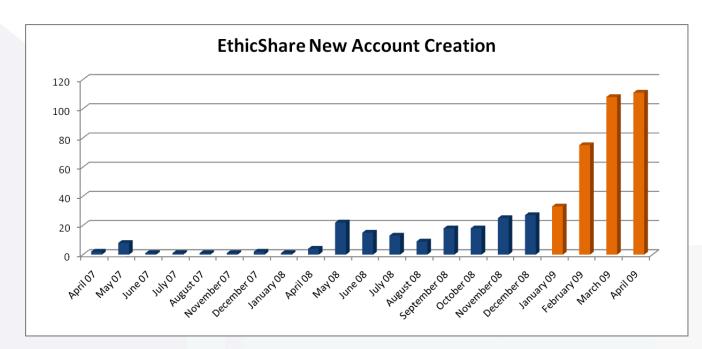
Accessible Services

• Link Resolution - creating an Open URL link resolver that allows users from any institution with a link resolver to access the full text of a resources (if their institution buys that resource).



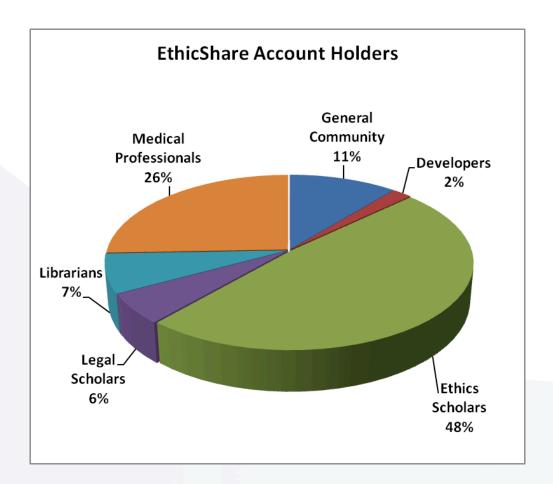
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Accessible Services



Will the primary focus for scholars be met if the "general community" grows?



Aggregation and Service Architecture **Data Aggregation Community-tailored Services** for Discovery Drv al Core **Drupal Modules External Services Data Sources** OCLC Gateway Blog/Blog API Bibliography Resolution Metadata Caching Theme Services Processing System Targeted Solr Profile Web Global Community Node Metadata (content mgmt.) Organic Grps Services PubMed Signup Cache System HTML (e.g., Connotea, (NLM) XML del.icio.us, BuddyList CCK CiteULike) RIS Taxonomy Targeted Processing BibTeX System 1 & A MARC CRE OAI-PMH Normalization DC NLM NLM Related User Catalog De-duplication Records Management Custom Tracker/Stats Updating Other Catalogs Enrichment Forum Voting API Google Co-op/ File System Other External Digital Auto-indexina Search Services

End User Inputs (tags, terms, text, documents)

Repositories

XML Search Gateway (potential service in future)

Invite

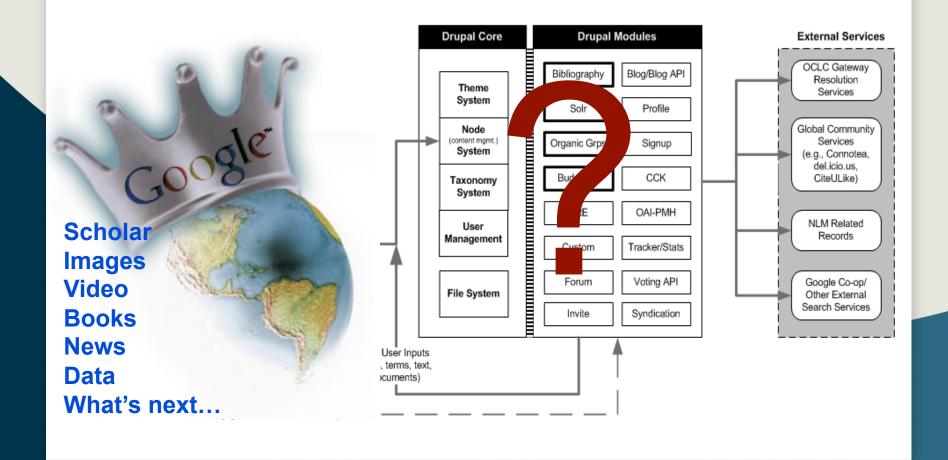
Syndication

Virtual Research Environments... the future

Leveraging the Global but Keeping it Local:

- Authentication of Users
 - Single sign-on
 - Authority Control (which J Kahn are you?)
- Data
 - Tags between data providers?
 - Content and user based recommendations
- Collaborations
 - Other developers interested in shared code base

EthicShare Aggregation & Service Architecture



EthicShare ... the future

Collections:

- Expand the Index (info, people, tools)
- Capture of Community's Fugitive Content
- Gray Literature Contributions
- Digital Collections (OAI-harvests), media
- Curricular Materials/ Learning Objects

Site Features:

- Recommenders
- "Classics" Lists
- Bioethics Policy Development Support
- User Submissions and Sharing Between Members



EthicShare ... the future

Research Studies (Experiments):

- Community Keyword Participation by Scholars
 - Keywords defined entirely by the users
 - Keyword "suggestions" from the Bioethics Thesaurus (only those terms can be selected)
 - Keyword "suggestions" from the Bioethics
 Thesaurus users can select those or enter any term.
- User Submissions Can we encourage contributions?

Release the Code & Process

- VRC Technology Stack
- Development Model
- Assessment Processes



Thank You!

Chad Fennell - <u>fenne035@umn.edu</u>
Kate McCready - <u>mccre008@umn.edu</u>

EthicShare Site: http://www.ethicshare.org

Background: http://www.lib.umn.edu/about/ethicshare



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