Discovery Overview

What is a Discovery Service?
Why does my library need a Discovery Service?
What are the basic features of a discovery tool?
What are other libraries doing in the EIFL network?

Examples   Examples   Examples
Clive Wright
Vice President of Discovery Innovation for Latin America and Europe
Fast, simple access to all of the library’s full-text content (electronic and print) in a single search box

- Journals
- Conference Proceedings
- Magazines
- Newspapers
- Books
- Monographs
- Images
- Audio
- Video

Your Library Catalog & Institutional Repositories
Why get a Discovery Service?

“Imagine you’re an undergraduate, a graduate student, or a professor. Your library subscribes to thousands of e-journals and thousands more e-books, hundreds of databases, and still has row upon row of shelves with books. Confronted by this overwhelming choice and with your essay due tonight, where do you start? You go to Google, of course.

Now imagine a world where that’s not the case, where users actually start their discovery with a search engine provided by the library itself, and which directs them to the most appropriate content for their search that the library has available, rather than to the mixed bag of results that Google throws out.”

Why get a Discovery Service?

“Discovery systems address students’ needs by enabling easy cross-database access and access to sources they feel they can trust, especially when compared with Google.”

“Students using EDS also required fewer searches to find the information they needed and viewed fewer webpages before choosing resources than any of the other four test groups” (Google Scholar, the catalog, databases or other discovery tools)

Why get a Discovery Service?

1. **Impact of library discovery technologies - UKSG**
   - [PDF] Impact of library discovery technologies - UKSG
   - www.uksg.org/sites/uksg.../UKSG_final_report_16_12_13_by_LISU.pd...
   - 5 Sep 2013 - Studies of the impact of RDS on usage at individual libraries ............
   - 1.2.31.14 of RDS and other discovery tools

2. **Utilizing Discovery Tools for Classrooms: How Do Librarian ...**
   - by ND Allen - 2015
   - United States. Citation: Natasha Darrae Allen, (2015) "Utilizing Discovery Tools for Classrooms: How Do Librarian Attitudes on Discovery Impact Tools They ...

3. **LISU - UKSG JISC: Impact of Library Discovery Technologies**
   - www.boro.ac.uk/microsites/infoscl/lisu/pages/research/uksg-pjc.html
   - 5 Dec 2014 - Impact of Library Discovery Technologies ... statistics for electronic resources may be attributed to the introduction of resource discovery tools.

   - www.mendeley.com/groups/3510021/
   - The effect of discovery systems on online journal usage: a longitudinal study. And 2 more ... What do students want from library discovery tools? Plan, Practice ...

5. **Examining the impact of discovery systems on usage ...**
   - exchanges.wiley.com/examining.the.impact-of-discovery.systems.on....
   - 21 Jul 2014 - A typical academic library provides access to dozens or even hundreds of online tools for finding scholarly information. Ranging from the online ...

6. **hellibtech - Discovery**
   - hellibtech.com/Discovery
   - How commercial next-generation library discovery tools have "nearly" got it right" by Paul Stainthorpe. ... The impact varies by resource, and across libraries.

7. **Impact of discovery tools on e-book usage | Exchanges**
   - exchanges.wiley.com/blog/impact-of-discovery-tools-on-e-book-usag...
   - 18 Jul 2013 - What impact do discovery tools have on the use of science and engineering ... The paper, presented at the Engineering Libraries Division of the ...

8. **Academic Libraries and Discovery Tools: A Survey of the ...**
   - www.researchgate.net/211714551_Academic_Libraries_and_Discovery
Supporting the strategic plan of the academic library

GOAL #1

Promote a superior user experience through the development of innovative services that support the educational, cultural, and research needs of the university and its community partners.

Source: presentation by Don Gilstrap, Dean of Libraries, Wichita State University @ NISO ODI Jan. 28, 2015
Discovery tools provide access to knowledge.
What does a Discovery Service look like?

1. **Nomenclature- and Database-Compatible Names for the Two Ebola Virus Variants that Emerged in Guinea and the Democratic Republic of the Congo in 2014.**
   - By: Kuhn, Jens H.; Andersen, Kristian G.; Balzar, Sylvain; Yfimov Bao; Bavari, Sina; Berthe, Nicolas; Bilinkova, Olga; Bristow, J. Rodney; Anna N.G. Clawson; Fair, Joseph; Gabriel, Martin; Garry, Robert F.; Geare, Stephen; Goba, Augustine; Gonzalez, Jean-Paul; Gunthier, Stephanie; Hapip, Christian T.; Jannsen, Peter B.; Kapetsky, Jimmy; Kharin, Gary V. Munitses (1999-2016), 2014. Vol. 6 Issue 11, p4780-4799. 40p. DOI: 10.3390/v6114780.
   - Subjects: EBOLA virus disease; RESEARCH; EBOLA virus disease - Transmission; PREVENTION; FILOVIRIDAE; PANDEMICS; NAMES; DATABASE design; CONGO (Democratic Republic); GUINEA - Social conditions

2. **Euthanasia Assessment in Ebola Virus Infected Nonhuman Primates.**
   - Subjects: FILOVIRIDAE; PRIMATE study; HEMORRHAGIC fever; EUTHANASIA; CLINICAL pathology; MANAGEMENT; EBOLA virus disease; NEEDS assessment (Medical care); MORAL & ethical aspects; ANIMAL models

3. **Transmission dynamics and control of Ebola virus disease (EVD): a review.**
   - Subjects: EBOLA virus disease - Transmission; PREVENTION; PANDEMICS; ISOLATION (Hospital care); PUBLIC health; AFRICA; West; Health and Welfare Funds

4. **Battling Ebola.** (cover story).
   - Subjects: PLVLER, Lance, EBOLA virus disease, EPIDEMICS
What does a Discovery Service look like?

   - By: Kuhn, Jens H.; Andersen, Kristian G.; Baize, Sylvain; Yelmi, Bao; Savarit, Sina; Berthet, Nicolas; Bilinksy, Olga; Ernster, J.; Rodney; Anna N.Glawson; Fair, Joseph; Gabriel, Martin; Garry, Robert F.; Gire, Stephen K.; Goa, Augustine; Gonzalez, Juan-Paul; Gunther, Stephan; Hapi, Christian T.; Jannings, Peter B.; Kapetash, Jimmy; Kobinger, Gary; Vinuesa (1999-2014). Vol. 8 Issue 11, p499-502. 1p. DOI: 10.3390/v6114992.
   - Tematy: EBOLA virus disease, RESEARCH, EBOLA virus disease -- Transmission, PREVENTION, FILOVIRIDAE, PANDEMICS, NAMES, DATABASE design, CONGO (Democratic Republic), GUINEA -- Social conditions
   - Polety takst PDF (1.7MB)

2. Euthanasia Assessment in Ebola Virus Infected Nonhuman Primates.
   - Tematy: FILOVIRIDAE, PRIMATE trade; HEMORRHAGIC fever, EUTHANASIA, CLINICAL pathatology, MANAGEMENT, EBOLA virus disease; NEEDS assessment (Medical care); MORAL & ethical aspects; ANIMAL models
   - Polety takst PDF (3.9MB)

   - Tematy: EBOLA virus disease -- Transmission; PREVENTION; PANDEMICS; ISOLATION (Hospital care); PUBLIC health; AFRICA, West; Health and Welfare Funds
   - Polety takst PDF (500KB)

4. BATTLEING EBOLA (cover story).
   - Tematy: FLYER, Lance; EBOLA virus disease, EPIDEMICS
What does a Discovery Service look like?
What does a Discovery Service look like?
parkinson's disease treatment

Erweiterte Suche  Frühere Suchen  Merkliste  Feedback  Hilfe

Suchanfrage war: parkinson's disease treatment

Treffer 1 - 10 von 231895

001. Predictors of treatment response to cognitive-behavioral therapy for depression in Parkinson’s disease.
Datenquelle: PsycARTICLES

002. Nutraceuticals and their preventive or potential therapeutic value in Parkinson's disease.
Chao, Jianfei; Leung, Yen; Wang, Mingfu; et al.; Nutrition Reviews, 2012, Vol. 70, Issue 7, S. 373-386
Datenquelle: Academic Search Premier

003. The Economic and Quality of Life Burden Associated With Parkinson's Disease: A Focus on Symptoms.
Web Scale Discovery

WSD systems couple... a pre-harvested central index of metadata and content... ... with a richly featured discovery layer.
Top Subject Index Providers:

- American Chemical Society (SciFinder Scholar / Chemical Abstracts)
- American Economic Association (EconLit)
- American Geosciences Institute (GeoRef)
- American Mathematical Society (MathSciNet)
- American Psychological Association (PsycINFO)
- American Statistical Association (Current Index to Statistics)
- American Theological Library Association (ATLA Religion Database, etc.)
- APC (Alternative Press Index)
- Association for Asian Studies (Bibliography of Asian Studies)
- Association of Christian Librarians (Christian Periodical Index)
- Behavioral Measurement Database Services (HaPI)
- Bibliografia Generale della Lingua Italiana e della Letteratura Italiana (BiGLLI)
- Brill Academic Publishers (Index Islamicus)
- British Library (AMED)
- Buros Center (Mental Measurements Yearbook, Tests in Print)
- CABI (CAB Abstracts, Global Health)
- Columbia University (Avery Index to Architectural Periodicals)
- De Gruyter (IBZ Online)
- DYABOLA (The Archaeological Bibliography, etc.)
- EBSCO (CINAHL, H.W. W., Historical Abstracts, BEI, SociINDEX, etc.)
- Elsevier (Compendex, EMBASE, GEOBASE, etc.)
- Fraunhofer IRB Verlag (ICONDA, Raumordnung)
- Harvard University (Anthropological Literature)
- IET (Inspec)
- IFIS (Food Science & Technology Abstracts)
- Index to Jewish Periodicals (Index to Jewish Periodicals)
- INION (Russian Academy of Sciences Bibliographies)
- INST-CNRS (FRANCIS, PASCAL)
- International Federation of Film Archives (FIAF International Film Archive)
- IPSA (International Political Science Abstracts)
- John Hopkins University Press (World Shakespeare Bibliography Online)
- Leibniz-Zentrum für Psychologische Information (PSYNDEX)
- Library of Congress (Music Catalog – Library of Congress)
- Mary M. Schmidt (Index to 19th-Century American Art Periodicals)
- Michigan State University (Turfgrass Information File)
- Modern Language Association (MLA International Bibliography)
- Music Library Association (Index to Printed Music)
- National Agricultural Library (AGRICOLA)
- National Association of Social Workers (Social Work Abstracts)
- National Criminal Justice Reference Service (NCJRS Abstracts)
- National Technical Information Service (NTIS)
- NISC South Africa (Africa-Wide Information, etc.)
- Philosopher’s Information Center (The Philosophers Index)
- ProQuest (Cambridge Scientific Abstracts, etc.)
- Religious & Theological Abstracts (Religious & Theological Abstracts)
- Répertoire International de Littérature Musicale (RILM, RILM Retro)
- Répertoire International de la Presse Musicale (RIPM)
- Répertoire International des Sources Musicale (RISM)
- Royal Anthropological Institute (Anthropological Index)
- Royal Society of Chemistry (Analytical Abstracts)
- Science Society, et al (History of Science, Technology and Medicine)
- SIBC (L’Annee Philologique)
- Smithers Information Limited (Polymer Library)
- Thomson Reuters (BIOSIS Previews, Zoological Abstracts)
- Thomson Reuters France (Le Doctrinal Plus)
- UCLA (Hispanic American Periodicals Index)
- University of California, Berkeley Libraries (Chicano Database)
- University of Haifa (Index to Hebrew Periodicals)
- University of Illinois Libraries (ABSEES)
- University of Toronto Libraries (Iter Bibliography)
- University of Tulsa Libraries (Petroleum Abstracts)
- William S. Hein & Co (HeinOnline, Index to Foreign Legal Periodicals)
- Wiley & Sons, Ltd. (Cochrane Collection Plus, HEED)
- WTI Frankfurt (TEMA, CEABA)
Evaluating the Central Index

• Is the indexed content a good fit?
  – Inclusion of your journals titles and holdings
  – Inclusion of your subscribed databases

• Richness of metadata

• Ability to incorporate desired content in the future

5 Sept 2013

Resource Discovery Services
Athena Hoeppner
University of Central Florida
Top Subject Index Providers:

Working with EDS (Mutual Customers Only)

- American Chemical Society (SciFinder Scholar / Chemical Abstracts)
- American Economic Association (EconLit)
- American Geosciences Institute (GeoRef)
- American Mathematical Society (MathSciNet)
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- Brepols Publishers (IMBO, Index Religiosus, etc.)
- Brill Academic Publishers (Index Islamicus)
- British Library (AMED)
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Discovery Case Study: The University of Virginia

Esther Onega, The University of Virginia
Evaluation Criteria
How we decide

- **Functionality**
  - Speed, relevancy

- **API**
  - Necessary for incorporation into our catalog, VIRGO

- **Metadata**
  - Searchable fields, field consistency, faceting

- **Quality Control**
  - Results reflect library holdings

- **Coverage**
  - Compatibility of Library holdings with those of the discovery service

- **Customer Service**
  - MUST be available, helpful, and responsive

- **Relevancy**
  - Are librarians and users finding results to be useful?
Evaluating the Central Index

• Is the indexed content a good fit?
  – Inclusion of your journals titles and holdings
  – Inclusion of your subscribed databases

• Richness of metadata

• Ability to incorporate desired content in the future
Comparing Metadata

Ferreiro, Alberto. "Simon Magus, Nicolas Of Antioch, And Muhammad." 

Primo

- No abstract
- No subject headings
- Incomplete author name
- Junk fields

There is a duplicate record for this article further down in the results did have full name and abstract, but due to an incorrect title could not connect through the link resolver.
Comparing Metadata

Ferreiro, Alberto. "Simon Magus, Nicolas Of Antioch, And Muhammad."


**EBSCO**

- Abstract
- 4 subject headings
- No junk fields

No duplicate records and the link resolver connected properly.
Relevancy and Value Ranking

Relevancy is extremely important and hard to pin down.

• The central index is a BIG pile of hay.
• The search and refinement tools are rakes
• The relevancy ranking is a magnet.
Relevancy and Value Ranking

- Weighted fields
- Exact match of term with field
- Density of terms
- Currency of item
- Document type
- Document length
- Locally owned

Resource Discovery Services
Athena Hoeppner
University of Central Florida

5 Sept 2013
Superior Relevance Ranking

The system has the following priorities and has no bias toward content from any provider:

1) **Match on subject headings** from controlled vocabularies
2) Match on article titles
3) Match on author keywords
4) Match on keywords within abstracts
5) Match on keywords within full text

**Exact Matches:** Exact matches are favored over partial matches – considering also the field in which those words appear (abstract vs. full text vs. title, etc.)

**Density:** The number of times the word(s) appears relative to the size of the document (more is better) – considering also the field in which those words appear (abstract vs. full text vs. title, etc.)
Evaluating the Discovery Layer

• Is it a good fit for your content?
• Is it a good fit for how your users search?
• Does it integrate with your other services?
EDS Responsive Auto-Complete

University of Georgia Libraries
engage enlighten enrich

Searching: University Library Collection

Keyword: fracking

Search Option:

Popular Terms
- fracking
- fracking or hydraulic fracturing
- fracking and environment
- fracking benefits
- fracking and earthquakes

Publications
- Under the Surface: Fracking, Fortunes, and the Fate of the Marcellus Shale
- Fracking: The Operations and Environmental Consequences of Hydraulic Fracturing
- On Fracking
- The Real Cost of Fracking: How America's Shale Gas Boom Is Threatening Our Families, Pets, and Food
Clear, noticeable
Ebola virus

Last reviewed: August 2014

Anatomy or system affected: Blood, circulatory system, gastrointestinal system, muscles, skin

Definition: A virus responsible for a severe and often fatal hemorrhagic fever

Causes: Viral infection

Symptoms: Severe blood clotting and hemorrhaging, fever, lethargy, appetite loss, headaches, muscle aches, skin rash

Duration: Acute

Treatments: None

Causes and Symptoms

The Ebola virus is named after the Ebola River in northern Zaire (now the Democratic Republic of the Congo), Africa. The virus was first detected in 1976, when hundreds of deaths were recorded in Zaire as well as in neighboring Sudan. Four species of the Ebola virus genus cause human disease: Zaire ebolavirus (ZEBOV), Sudan ebolavirus (SUDV), Bundibugyo ebolavirus (BDBV), and Tai Forest ebolavirus (TAFV). A fatal disease among cynomolgus laboratory monkeys that were imported from the Philippines to Texas in 1966 was caused by the Reston ebolavirus (RESTV) subtype, which causes disease in nonhuman primates and in pigs but is not known to cause symptoms in humans. Another devastating outbreak among humans took place in early 1995 in Kikwit, Zaire, claiming the lives of 250 out of 315 reported patients; an 88 percent fatality rate. The epidemic ended within a few months, as suddenly as it began; this puzzled scientists, who are still not fully aware of the causes and nature of the virus. Despite the dreadful speed with which the disease killed its victims, scientists were able to contain it with a relatively small number of workers.

Outbreaks in Africa have continued to occur, some of them severe. A 2007 outbreak in the Democratic Republic of the Congo resulted in 254 cases and 187 deaths. Starting in February 2014, several West African countries were hit by the largest outbreak to date, with 3,069 reported cases (both confirmed and suspected) and 1,562 deaths as of August 25.

The Ebola virus appears to have an incubation period of two to twenty-one days, after which time the impact is devastating.