

## 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."

http://exchanges.wiley.com/blog/2010/12/22/library-discovery-services-a-better-way-to-find-what-youre-looking-for/

#### 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."

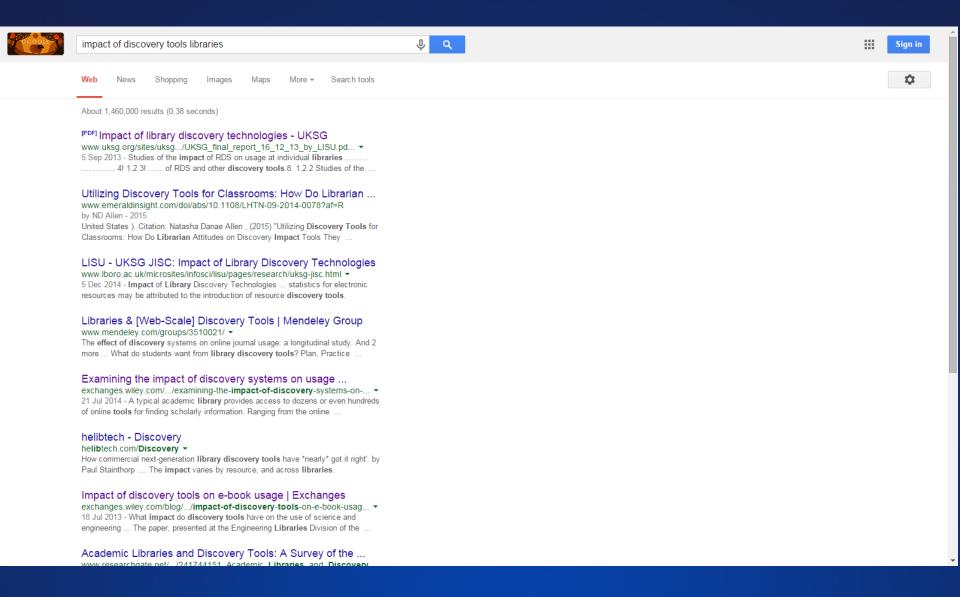
"Students using EDS also required fewer searches to find the information they needed and viewed fewer webpages before choosing resources than any of the other four test groups" (Google Scholar, the catalog, databases or other discovery tools)

"Paths of Discovery: Comparing the Search effectiveness of EBSCO Discovery

Service, Summon, Google Scholar, and Conventional Library

Resources," College & Research Libraries

#### Why get a Discovery Service?



# 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

Searching: Discovery Service for National Library of Latvia

Keyword ▼ Enter any words Search

Basic Search Advanced Search

Search History >

#### **SUBJECT INDEXES**

**TRAINING** 

**BOOKS** 

**ARCHIVES** 

CONFERENCE **PROCEEDINGS** 

**EXAMS** 

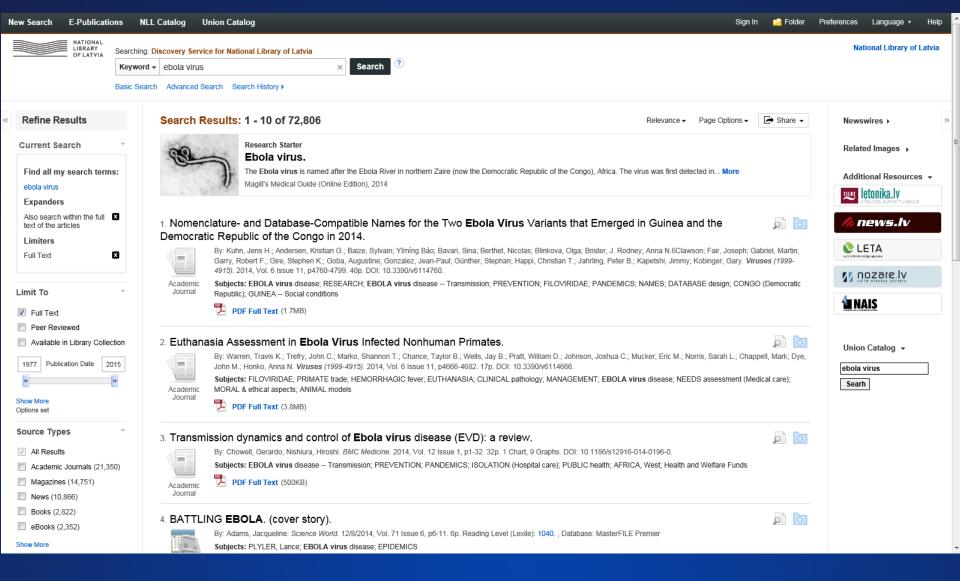
**STUDYING** 

**FOCUS** 

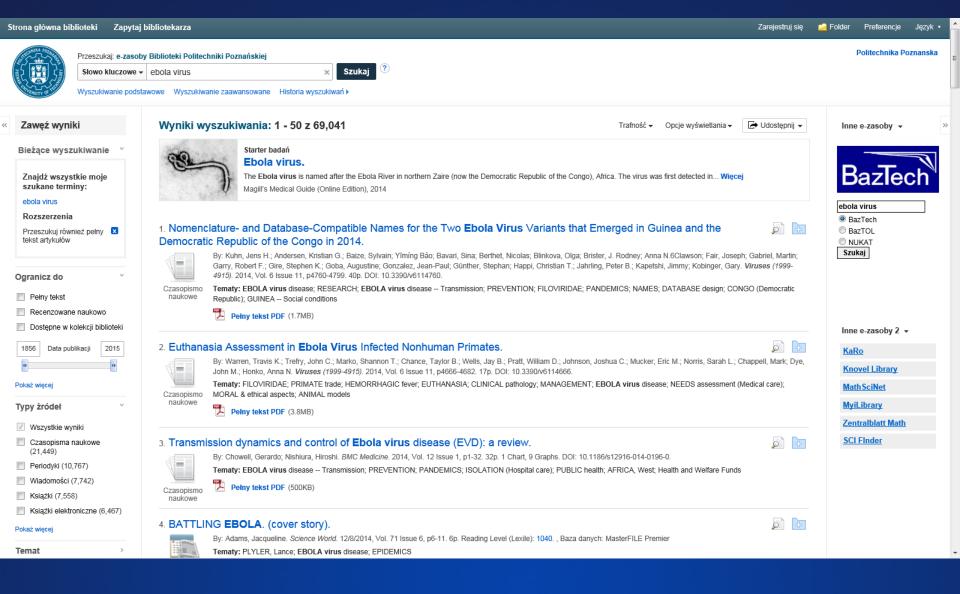
**REPOSITORIES** 

**FACULTY PRESENTATIONS** 

#### What does a Discovery Service look like?



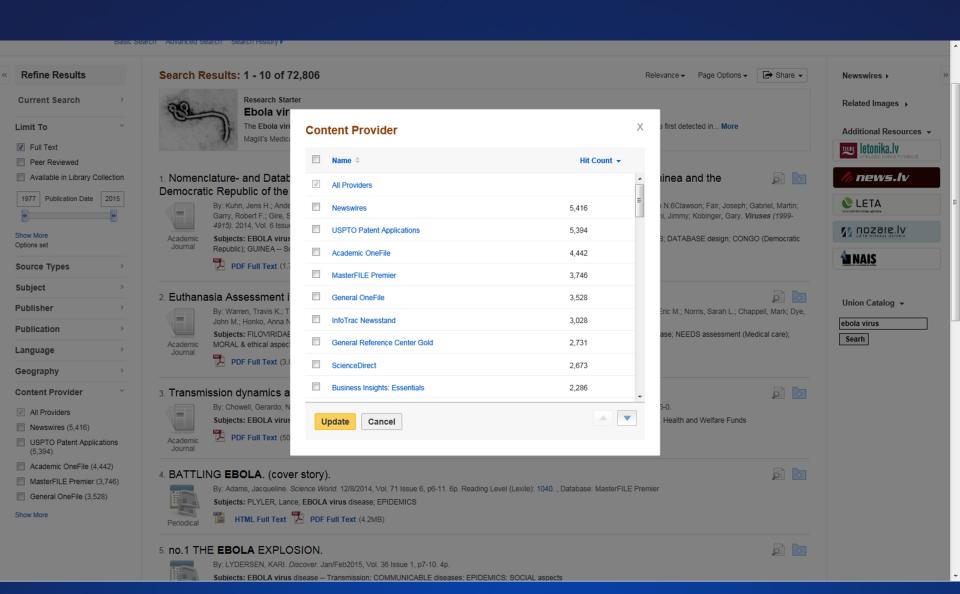
#### What does a Discovery Service look like?



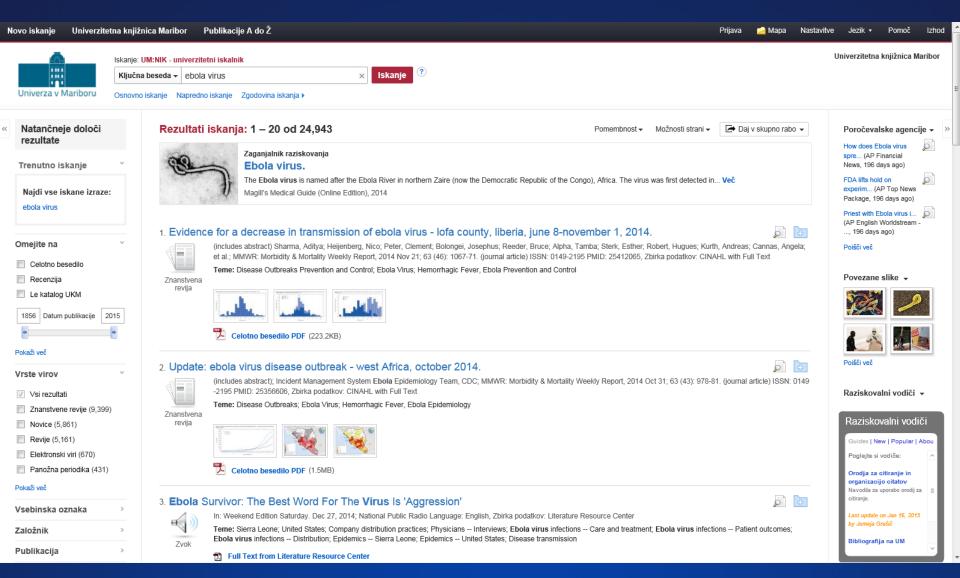
Refine Results Search Results: 1 - 10 of 72,806 Newswires ▶ **Current Search** Research Starter Related Images > Ebola vir The Ebola vir first detected in... More Limit To Publisher Additional Resources -▼ Full Text letonika.lv Hit Count ▼ Peer Reviewed Available in Library Collection 1. Nomenclature- and Datab inea and the news.lv nature publishing group 2.529 Democratic Republic of the 1977 Publication Date 2015 **№** LETA By: Kuhn, Jens H.; And N.6Clawson; Fair, Joseph; Gabriel, Martin; time inc. 2.340 Garry, Robert F.; Gire, S . Jimmy: Kobinger, Gary. Viruses (1999-4915). 2014, Vol. 6 Issu the washington post 1.902 nozare.lv Subjects: EBOLA virus ; DATABASE design; CONGO (Democratic Options set Republic): GUINEA -- S mcclatchy-tribune information services 1.587 NAIS PDF Full Text (1 **Source Types** public library of science 1,376 Subject 2. Euthanasia Assessment ni syndication limited 1,346 Union Catalog -**Publisher** Eric M.; Norris, Sarah L.; Chappell, Mark; Dye, By: Warren, Travis K.; elsevier b.v. 1.121 John M.; Honko, Anna I ebola virus nature publishing group Subjects: FILOVIRIDAE ase: NEEDS assessment (Medical care): Searh usa today 1,061 Academic MORAL & ethical aspec time inc. (2,340) PDF Full Text (3. wiley-blackwell 1.056 the washington post (1,902) mcclatchy-tribune information oxford university press / usa 973 services (1,587) 3. Transmission dynamics a public library of science By: Chowell, Gerardo; N Subjects: EBOLA virus Health and Welfare Funds Update Cancel ni syndication limited (1,346) PDF Full Text (50 Academic Show More Publication 4. BATTLING EBOLA. (cover story). By: Adams, Jacqueline. Science World. 12/8/2014, Vol. 71 Issue 6, p6-11. 6p. Reading Level (Lexile): 1040., Database: MasterFILE Premier Language Subjects: PLYLER, Lance; EBOLA virus disease; EPIDEMICS Geography HTML Full Text PDF Full Text (4.2MB) Content Provider 5. no.1 THE EBOLA EXPLOSION.

By: LYDERSEN, KARI. Discover. Jan/Feb2015, Vol. 36 Issue 1, p7-10. 4p.

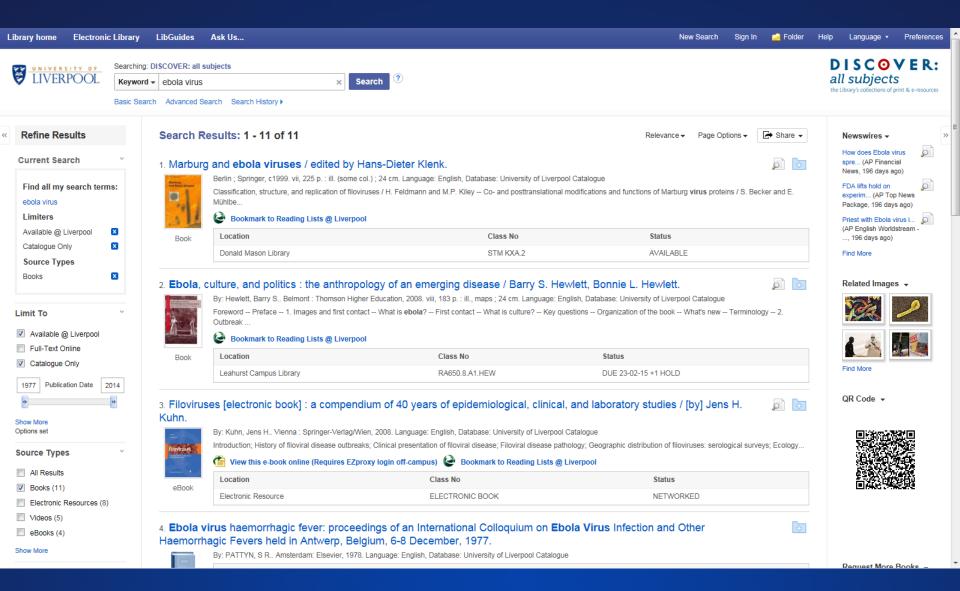
Subjects: EBOLA virus disease -- Transmission; COMMUNICABLE diseases; EPIDEMICS; SOCIAL aspects



#### What does a Discovery Service look like?



#### What does a Discovery Service look like?



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### Web Scale Discovery

WSD systems couple...
a pre-harvested central index of metadata and content...
... with a richly featured discovery layer.

## Pre-harvested Index **Open Access** WSD/Vendor FT and A/I **Agreements CENTRAL INDEX** Library **Library Subs Supplied Publisher Supplied**

### 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)
- Brepols Publishers (IMBO, Index Religiosus, etc.)
- 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, SocINDEX, 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

### Top Subject Index Providers:

#### Working with EDS (Mutual Customers Only)

- American Chemical Society (SciFinder Scholar / Chemical Abstracts)
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- WTI Frankfurt (TEMA, CEABA)

Summon (5): EconLit, MLA, L'Annee, HAPI, ProQuest Primo (4) GeoRef, MLA, L'Annee, ProQuest

World Cat (3): MLA, RTA, L'Annee

### Discovery Case Study: The University of Virginia

**Esther Onega, The University of Virginia** 



### **Evaluation Criteria**

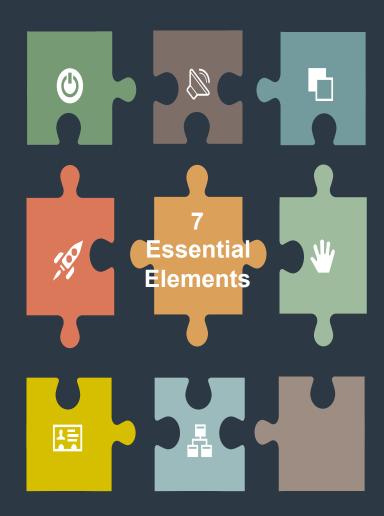
How we decide

- 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

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- Ability to incorporate desired content in the future

### **Comparing Metadata**

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

Church History 72.1 (2003): 53-70

#### **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.

Metadata

31. 33-70	
Simon Magus, Nicholas of Antioch, and Muhammad	
Ferreiro, A	
Published in	Church History, 2003, Vol.72(1), pp.53-70
Identifier	ISSN: 0009-6407
Availability	Access online
Abstract	Not provided
Source	Web of Science WEB OF SCIENCE
Creation Date	2003
Language	English
Journal	CHURCH HISTORY
Volume	72
Issue	1
Page(s)	53 - 70
ID	wos000181433700003
Туре	article
Delivery Category	Remote Search Resource

### **Comparing Metadata**

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

Church History 72.1 (2003): 53-70.

#### Metadata



#### **EBSCO**

- Abstract
- 4 subject headings
- No junk fields

No duplicate records and the link resolver connected properly.

Simon Magus, Nicolas of Antioch, and Muhammad.		
Ferreiro, Alberto		
Published in	Church History. Mar2003, Vol. 72 Issue 1, p53. 18p.	
Identifier	issn-print:00096407	
Availability	Access online	
Abstract	Presents a comparison and contrast of how Medieval writers transformed patristics Simon Magus and Nicolas of Antioch and adapted them to condemn Islam as heresy and denounce their immorality. Weapon used by medieval polemicists to assault Islam; Link of Nicolas with the sect of Nicolaitans established by author Irenaeus of Lyon; List of patristic writers who promoted the topos of Nicolaitism.	
Creation Date	Mar2003	
Language	English	
Journal	Church History	
Volume	72	
Issue	1	
Page(s)	53 - 70	
Subject(s)	FATHERS of the church; HERESY; ISLAM; IMMORALITY	
Туре	Article	

### Relevancy and Value Ranking

Relevancy is extremely important and hard to pin down.

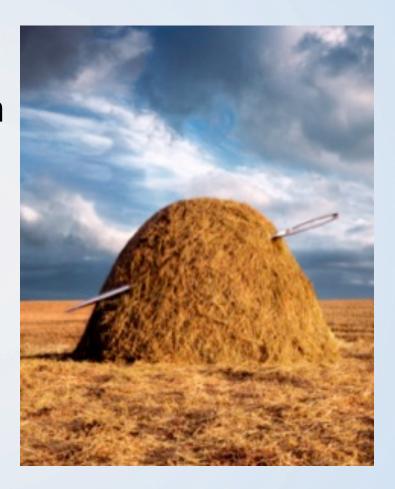
- The central index is a BIG pile of hay.
- The search and refinement tools are rakes
- The relevancy ranking is a magnet.



Resource Discovery Services
Athena Hoeppner
University of Central Florida

### Relevancy and Value Ranking

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



# 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**

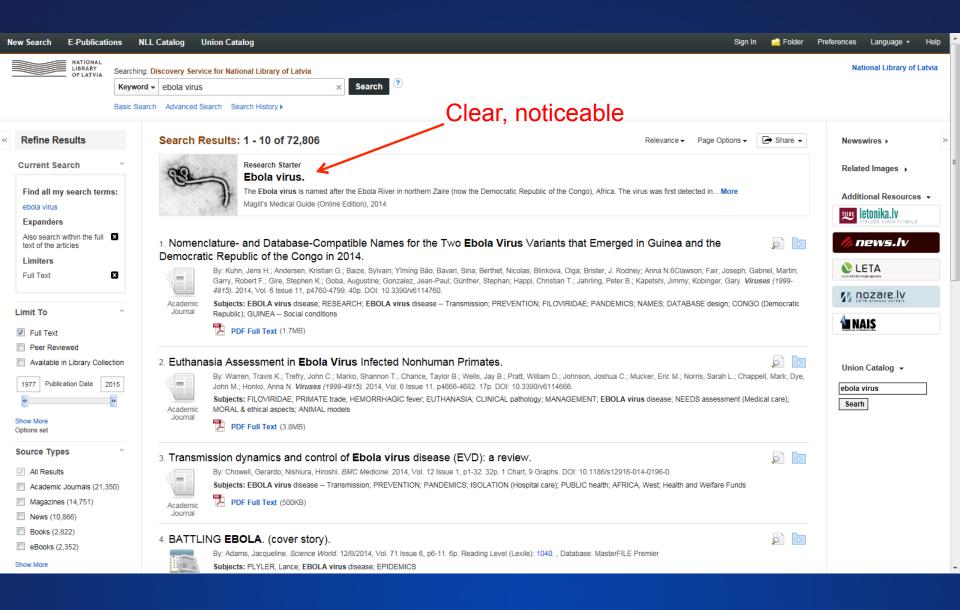
#### University of Georgia Libraries

engage enlighten enrich



#### Searching: University Library Collection Keyword + fracking Search 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 Fracking

#### **EDS Research Starters**



### **EDS Research Starters**

