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Innovative • Effective • Customizable

Marjorie M. K Hlava, 505-998-0800
Chief Scientist, Chairman, President, Founder
Mhlava2accessinn.com



Eureka I Found It!!

A Presentation On How Search Works With

Taxonomies

SLA Taxonomies 2021

Description:

Have you ever wondered how search works while visiting an e-commerce site, internal website, or searching through other types of online resources? Look no further than this informative session on the ways that taxonomies help end-users navigate the internet! Hear from taxonomists and other information professionals who have first-hand experience creating and working with taxonomies that aid in navigation, search, and discovery across a range of disciplines.

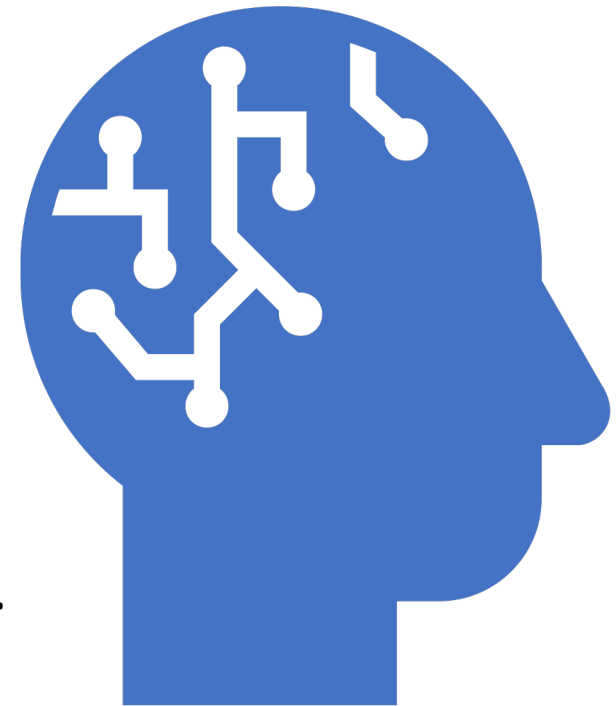
Who is speaking? Marjorie M.K. Hlava

- I am a lifetime member 45 years of SLA, joining in 1974.
- I have spent my career searching, building databases, building taxonomies, First for NASA then for my own company.
- Over 2000 engagements and 600 custom taxonomies built by my team and me.
- Also active in the standards we use you will find my name in the Dublin core (Z39.84), Controlled vocabulary (Z39.19), Credit, DOI Syntax and other infrastructure standards for the information industry.
- I am the founding chair of the SLA taxonomy division
- I have written four books and the Taxobook series is a best seller on Amazon. I also have authored over 200 articles and any presentations



Content Without Access Is Nearly Worthless.

- Enterprise search is how an organization
 - ... helps people seek the information they need,
 - ... in any format,
 - databases,
 - document management systems
 - paper.
 - ... from anywhere inside their company.
 - We need to get the right information at the right time.



What's the problem with search?

- Returns do not match the query – search question
- Need to know all the ways something can be labeled to find it, synonyms
- Colloquial use of terms to mean something else, homonyms
- Too many returns to look at easily
- Users only want to click 3 times to find an answer
- Too much time needed to set up good search system by IT
- Most orgs have 5 previous search systems on the shelf – trying a new one
- The problem was probably the data not the system.

Is All Search The Same?

- Key outcomes in a comprehensive knowledge management strategy.
- Discover “discoverability”
- Search
- Find “findability”



Search Behavior Types

- Findability
 - The ease with which information can be found. Means users can easily find content or information present on a website or in a database.
- Discoverability
 - Making sure that new content or information can be found
 - ... even if the user doesn't know that it exists yet.
- Browse
 - Like in a library or bookstore – allows serendipity in search
- Each type needs different support from the search system
- Taxonomies provide consistency in terms and categories to enable findability in content. This is true regardless of the subject.

How do we measure good search results?



Relevance

The systems guess at what you are looking for



Precision

Returning only those items which exactly match the query – search question



Recall

Returning ALL the items in the data base which match the search query



Match against human vetted sets

Training sets or humanly indexed data
Indexing indicates a controlled list of terms

What Search Using a Taxonomy OUGHT To Do!!

Gives precedence to Taxonomy terms in search

Search by Navigation tree

Expand search by Related terms

Refine search via Narrower terms

Type ahead shows both terms and synonyms

- Permuted list format

Suggests preferred term if synonym is entered in search box

Provide for recursive search (Search within a search set)

Give recommendations

What are the Parts of Search?

Search software

- Inverted Index
- Search algorithms

Content layer

- Rich metadata
- Consistent format

Presentation layer (User Interface)

- Search box
- Auto-completion
- Related content
- Advanced search options

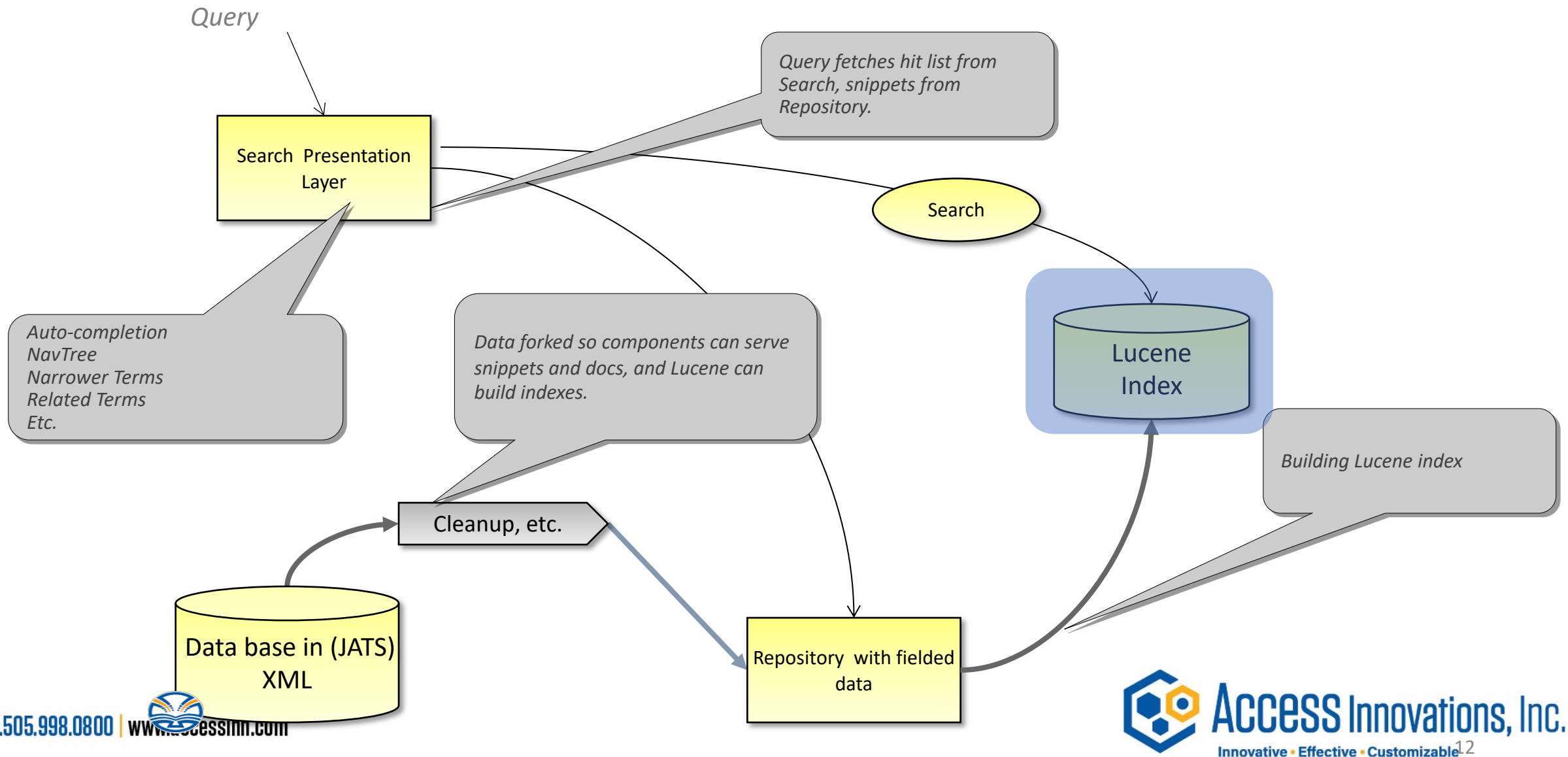
Search Software

Content Layer

Adding the Taxonomy

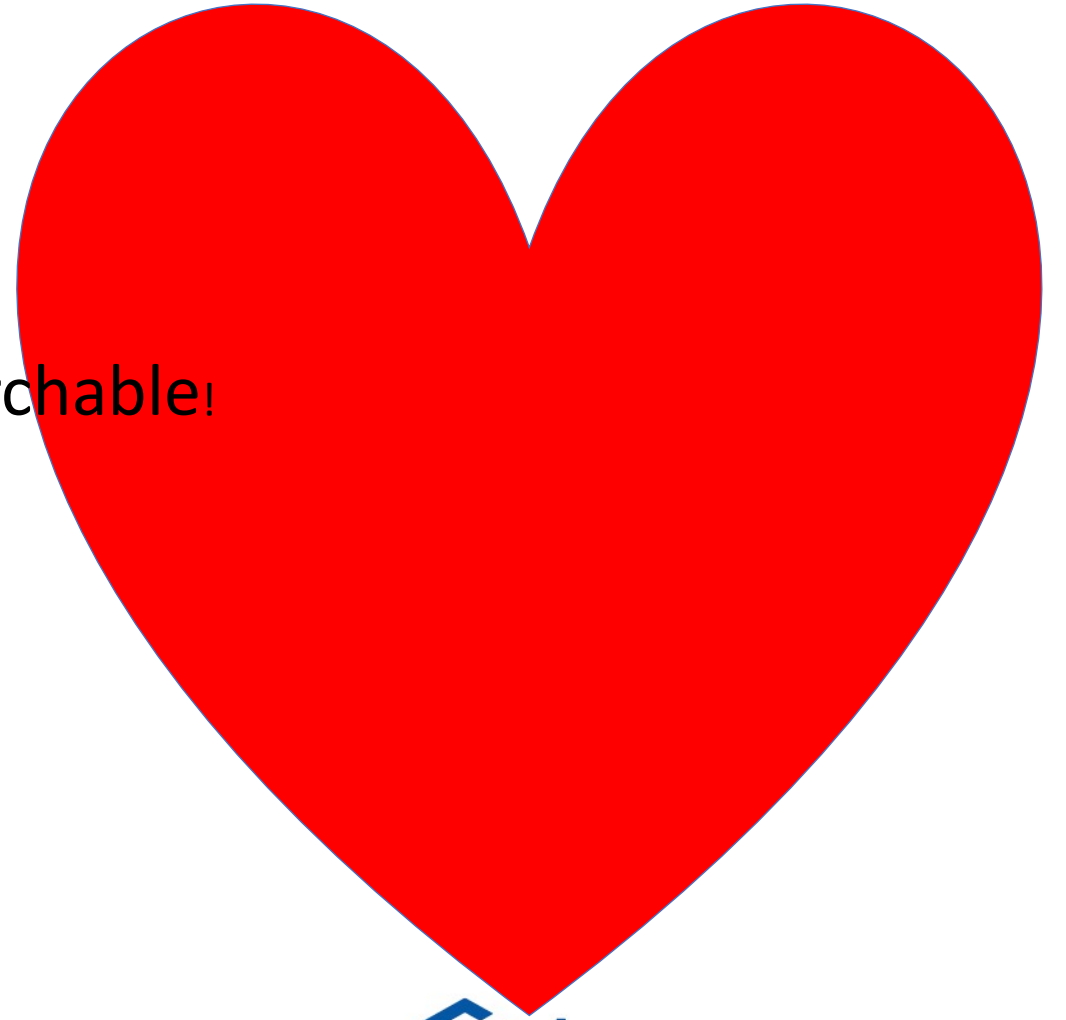
Presentation layer (User Interface)

Sample – Lucene Deployment



The inverted index

If its not in the inverted index.... It is not searchable!



Sample DOCUMENT

Creating an Inverted File Index

“Outline of Presentation”

1 Define key terminology

2 Thesaurus tools

- Features
- Functions

3 Costs

- Thesaurus construction
- Thesaurus tools

4 Why & when?

Simple Inverted File Index of the Terms from the “Outline”

&	key
1	of
2	outline
3	presentation
4	terminology
construction	thesaurus
costs	tools
define	when
features	why
functions	

Complex Inverted File Index: Placement, Location added

& - Stop

1 - Stop

2 - Stop

3 - Stop

4 - Stop

construction - L7, P2, SH

costs - L6, P1, H

define - L2, P1, H

features - L4, P1, SH

functions - L5, P1, SH

key - L2, P2, H

of - Stop

outline - L1, P1, T

presentation - L1, P3, T

terminology - L2, P3, H

thesaurus - (1) - L3, P1, H

(2) - L7, P1, SH

(3) - L8, P1, SH

tools - (1) - L3, P2, H

(2) - L8, P2, SH

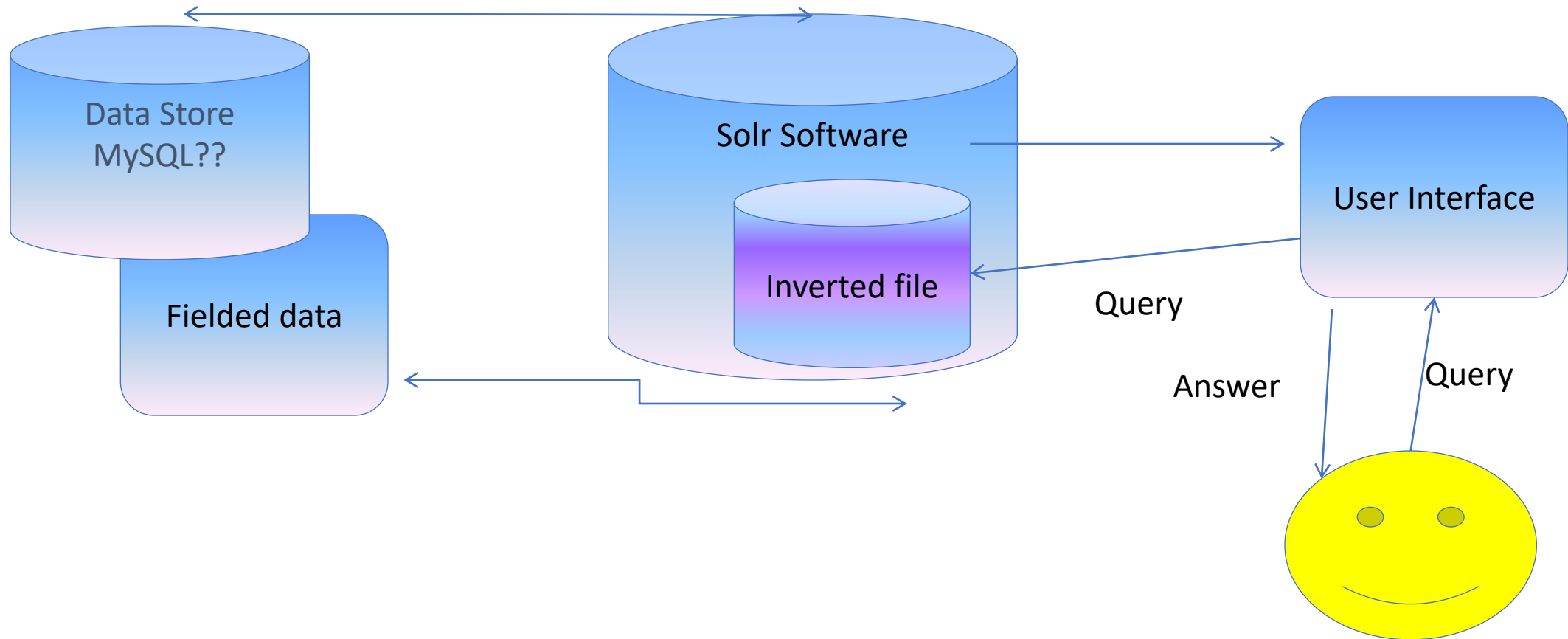
when - L9, P3, H

why - L9, P1, H

Search for thesaurus tools

- Search = Thesaurus tools
- thesaurus - (1) - L3, P1, H
 - (2) - L7, P1, SH
 - (3) - L8, P1, SH
- tools - (1) - L3, P2, H
 - (2) - L8, P2, SH

Lucene - SOLR Search Flow



Search Software

Content Layer

Adding the Taxonomy

Presentation layer (User Interface)

So how do we get there?



Have to tag the records



Semantically enrich



Add subject metadata

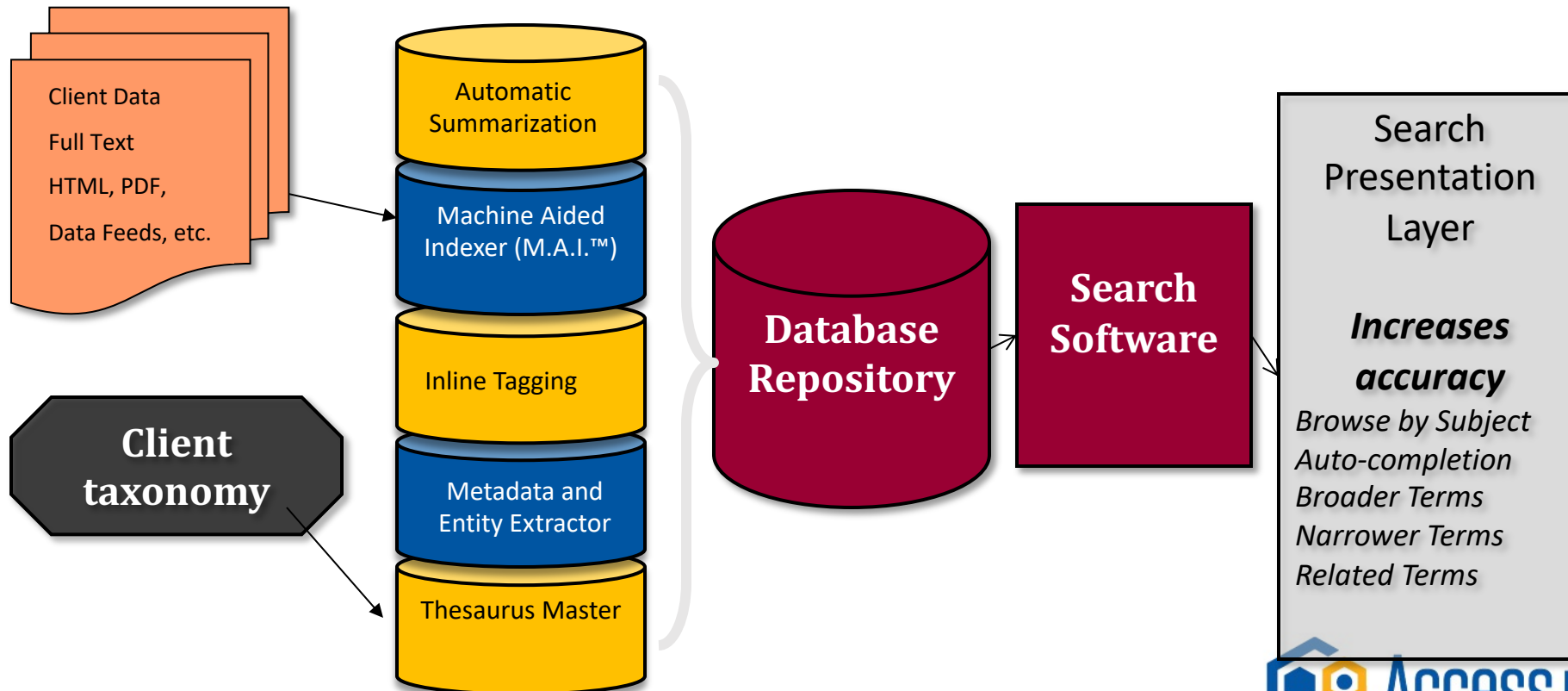
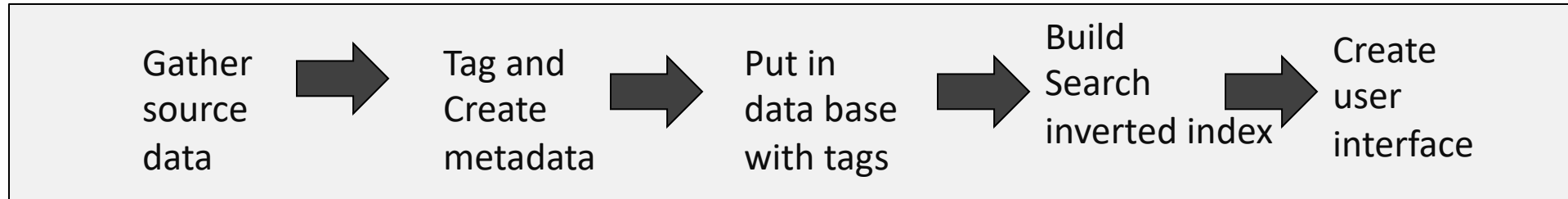


Create a controlled vocabulary

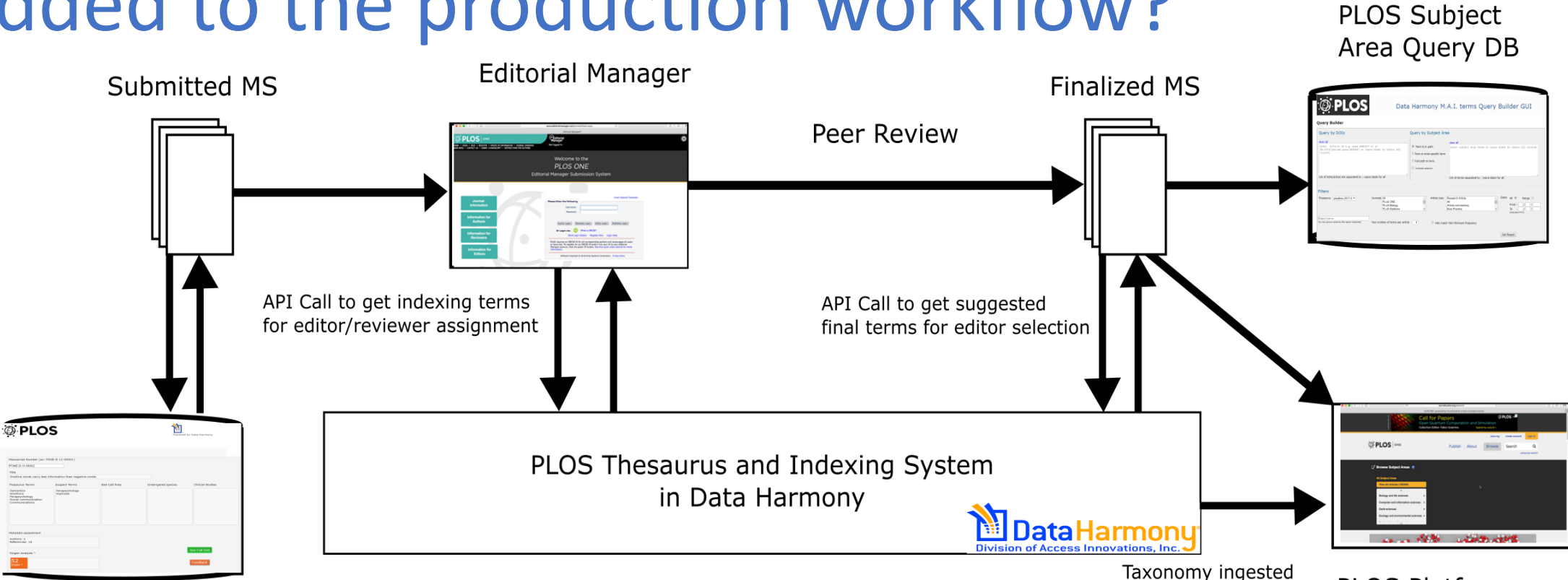


Use good metadata at the input and the search ends of the pipeline

The Workflow



Where does the taxonomy get added to the production workflow?



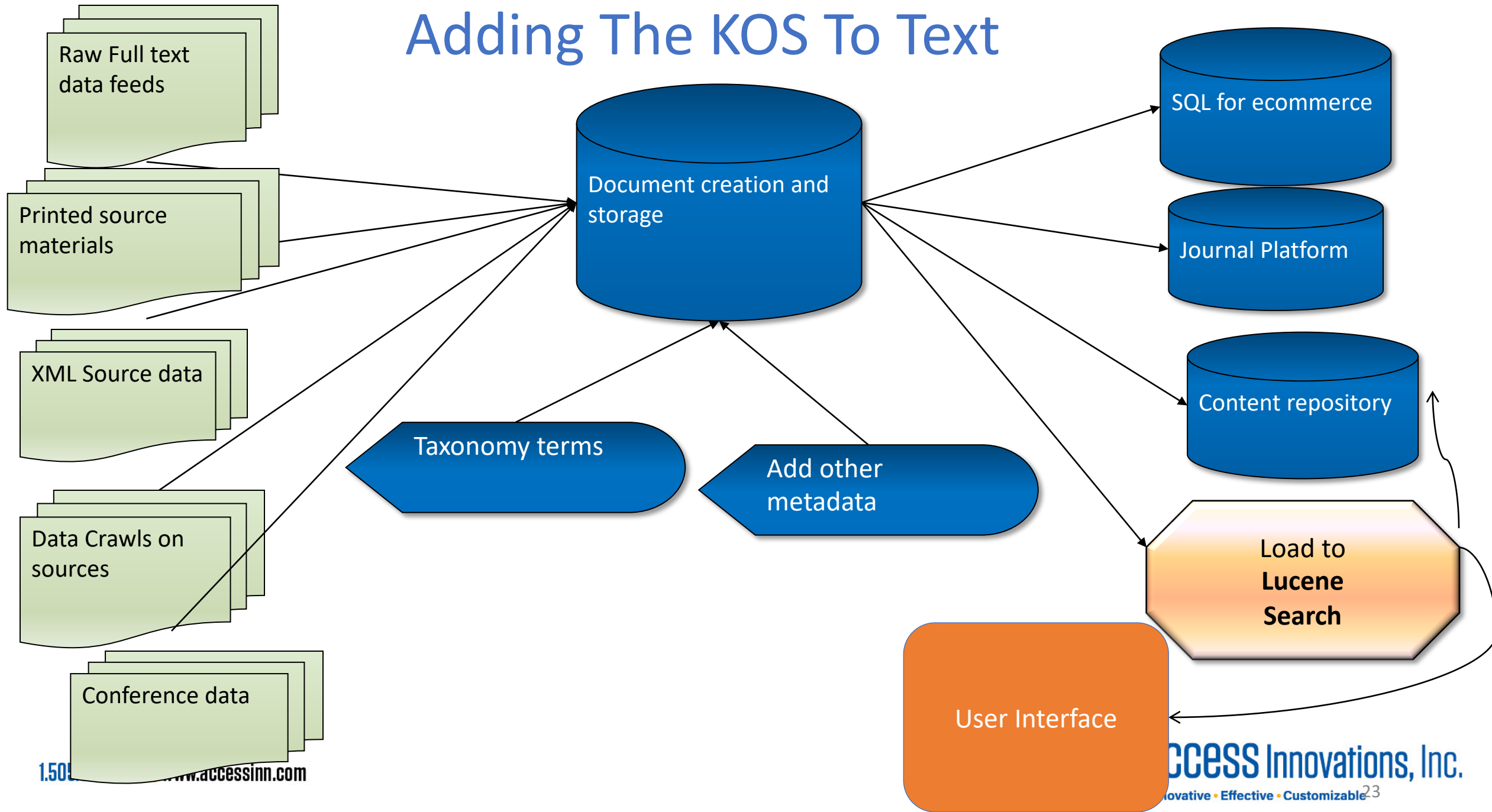
PLOS Pre-Publication Filters

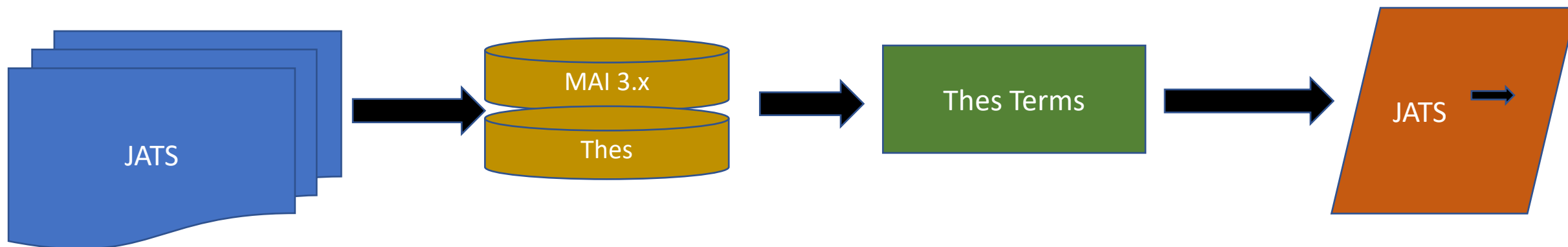
- SciGen Detector
- Bad Cell Lines
- Endangered Species
- Suspect Science
- Paper Fate Predictor

PLOS Subject Area Query DB

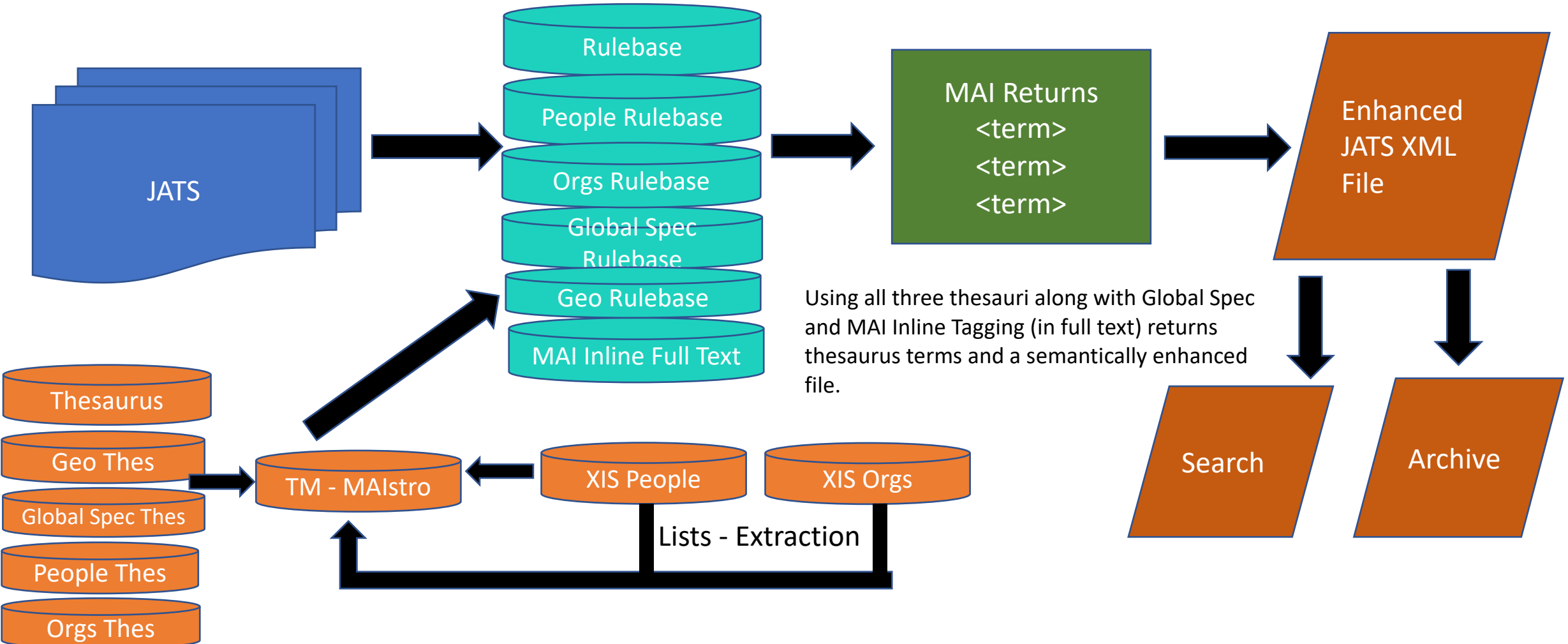
PLOS Platform
 -Display taxonomy
 -Browse hierarchy
 -Search Terms

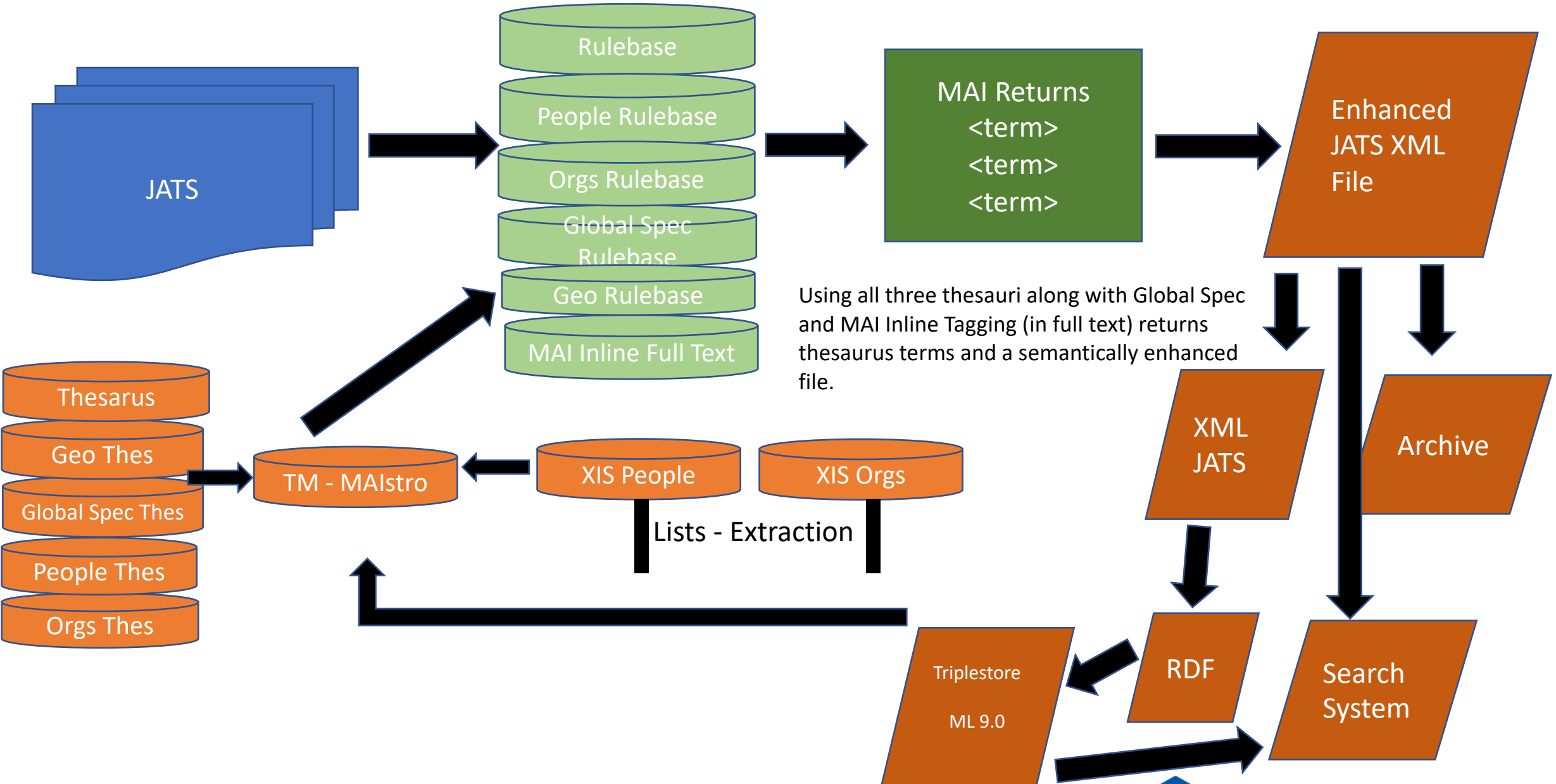
Adding The KOS To Text





Indexing using the controlled vocabulary or thesaurus / taxonomy will return basic thesaurus terms to be converted into enriched data (like JATS XML for ingestion as the “Article of Record” storage).





Florida Thesis Project

Sample records from the pilot project clearly demonstrate the enhanced metadata:

Subjects

Subjects / Keywords: alligator, detectability, estimates, habitat, population, sightability, survey
Interdisciplinary Ecology -- Dissertations, Academic -- UF

Genre: Electronic Thesis or Dissertation
bibliography (marcgt)
theses (marcgt)
Interdisciplinary Ecology thesis, M.S.

Original Record



Subjects

Subjects / Keywords: alligator, detectability, estimates, habitat, population, sightability, survey
Interdisciplinary Ecology -- Dissertations, Academic -- UF

Alligators (JSTOR)
Population estimates (JSTOR)
Aquatic habitats (JSTOR)
Wet prairies (JSTOR)
Vegetation (JSTOR)
Night lights (JSTOR)
Water depth (JSTOR)
Area Surveys (JSTOR)
Florida -- Everglades
Florida -- Kissimmee
Florida -- Franklin County
Florida -- Taylor County

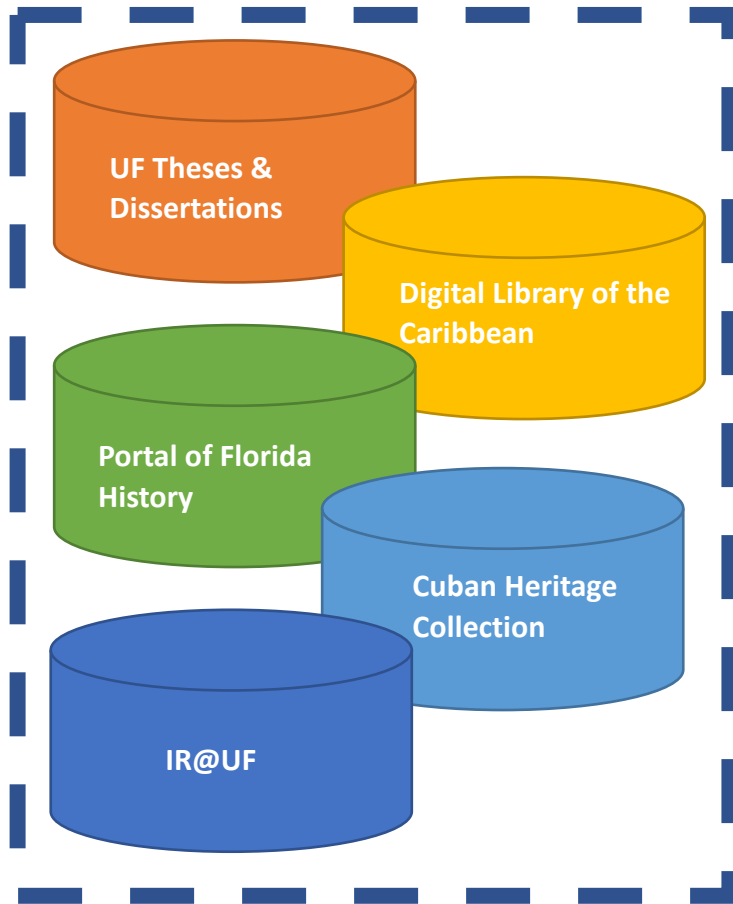
Genre: Electronic Thesis or Dissertation
bibliography (marcgt)
theses (marcgt)
Interdisciplinary Ecology thesis, M.S.

**Semantically
Enhanced Record**



Florida Thesis Project

University of Florida Digital Collections



XML Records & Full Text Exported from UFDC for Analysis



MARC Records Exported from XML



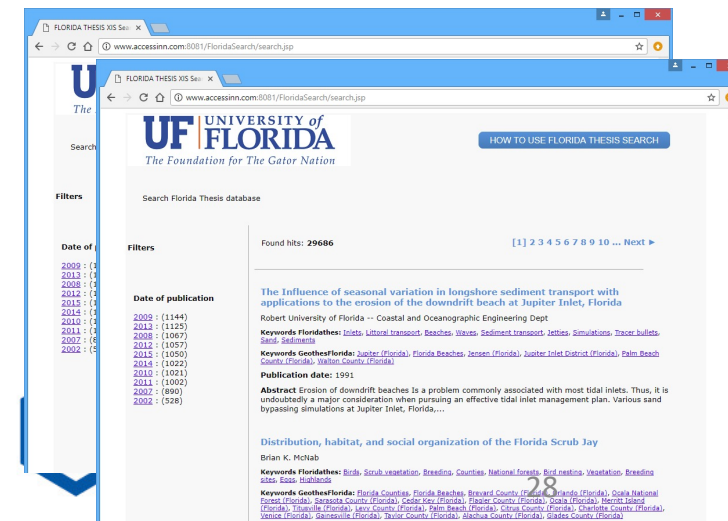
Enhanced Metadata Added to UFDC Records



XIS Staff Review Panel

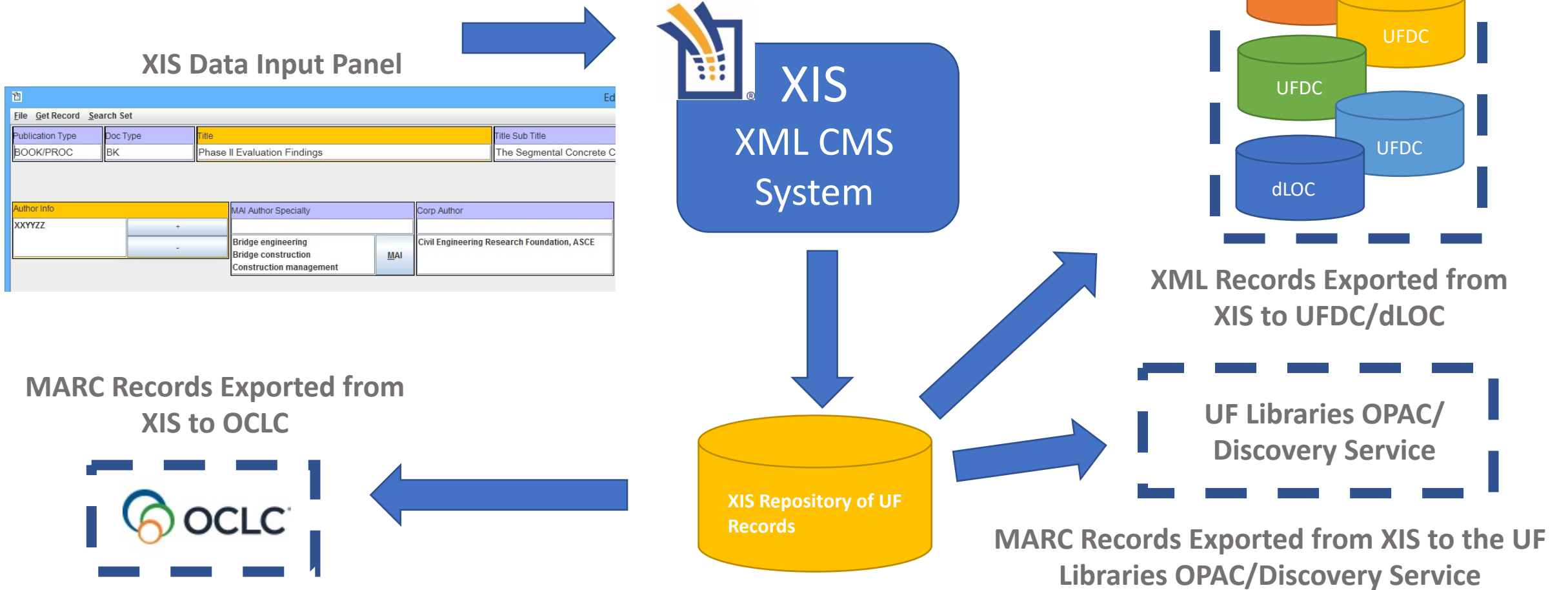


Updated Records Returned to UFDC



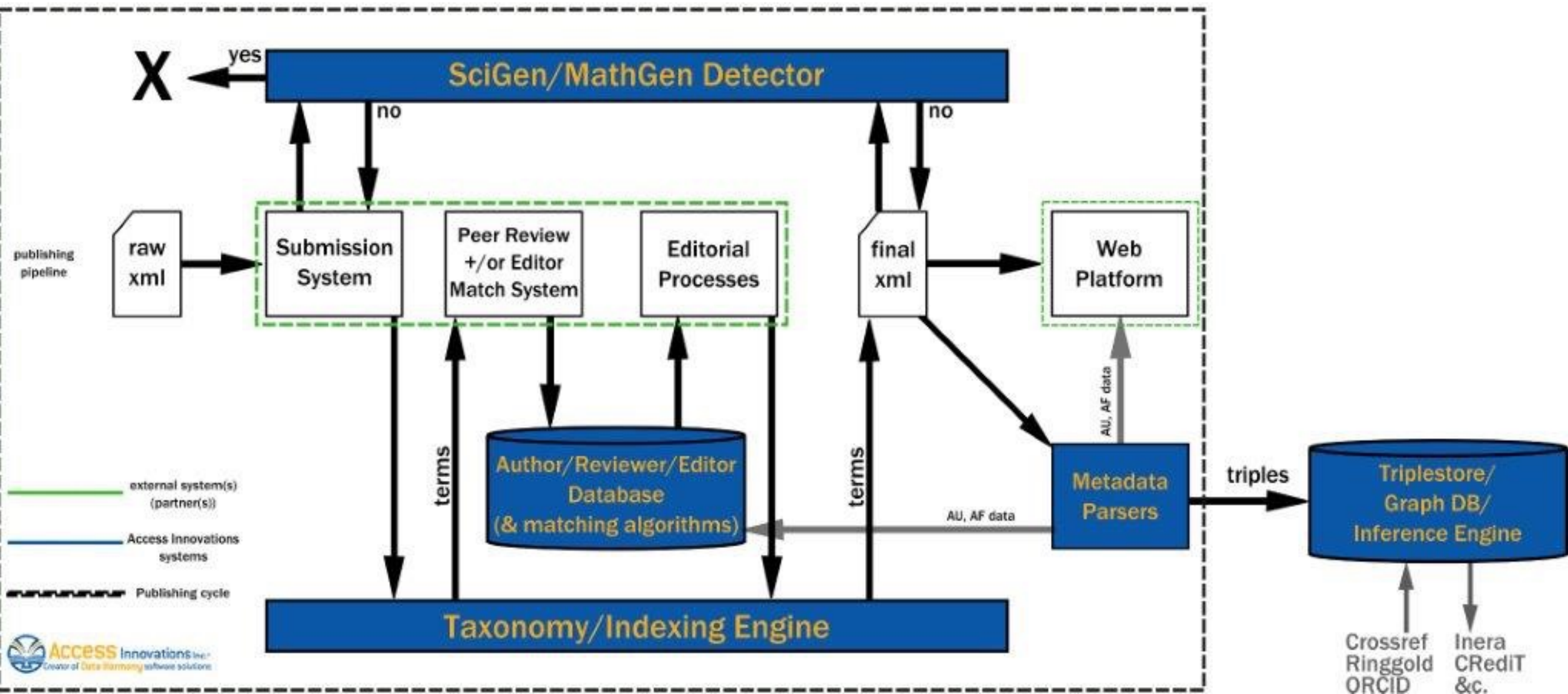
Planned Florida Record Creation

All Records Created in XIS



Document submission uploads - Smart Submit

End-to-End Smart Submit: Proposed Workflow



Search Software

Content Layer

Adding the Taxonomy

Presentation layer (User Interface)

All the taxonomy

- Hierarchical relationships
 - The broader narrower
 - Browse and Discovery
- Equivalence relationships
 - Synonyms
 - Findability
- Associative terms
 - Related but not synonyms or hierarchical
 - Knowledge maps
 - Cross area searching
 - Ontologies
- Linking
- Alphabetic views for type ahead

Non-intuitive Synonyms

- Invasive breast cancer
- Metastatic breast cancer
- Stage IV breast cancer

These all mean the same thing in MeSH, etc. (as well as in the ASCO thesaurus)

"Metastatic breast cancer"



Search returned 1803 results for ""Metastatic breast cancer""

ASCO.org / GUIDELINES / October 16, 2017

Role of Bone-Modifying Agents in Meta

This guideline updates, in collaboration with Cancer Care Ontario (of Clinical Oncology (ASCO) guideline on the role of bone-modifying focused update addressed the new data on intervals between dos

ASCO.org / GUIDELINES / May 23, 2016

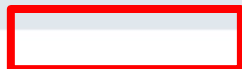
Endocrine Therapy for Hormone Recept Cancer

This guideline provides recommendations about endocrine therap

1803 hits

Lack of Synonymy Breaks Search

"Stage IV Breast cancer"



Search returned 73 results for ""Stage IV Breast cancer""

Meeting Library / ABSTRACTS, PRESENTATIONS / June 1, 2009

Determinants of functional disability

2009 ASCO Annual Meeting Poster Session Determinants of functional d

Author(s): Andrea L Cheville

Associated Content: Abstract

Meeting Library / ABSTRACTS, PRESENTATIONS / June 1, 2012

The impact of primary surgery on sta

2012 ASCO Annual Meeting Poster Session The impact of primary surger

Author(s): Ella Harris

Associated Content: Slides | Poster

73 hits

I would want my medical team to see all 2,396 articles

Lack of Synonymy Breaks Search

Disambiguation



Bridge

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Bridge

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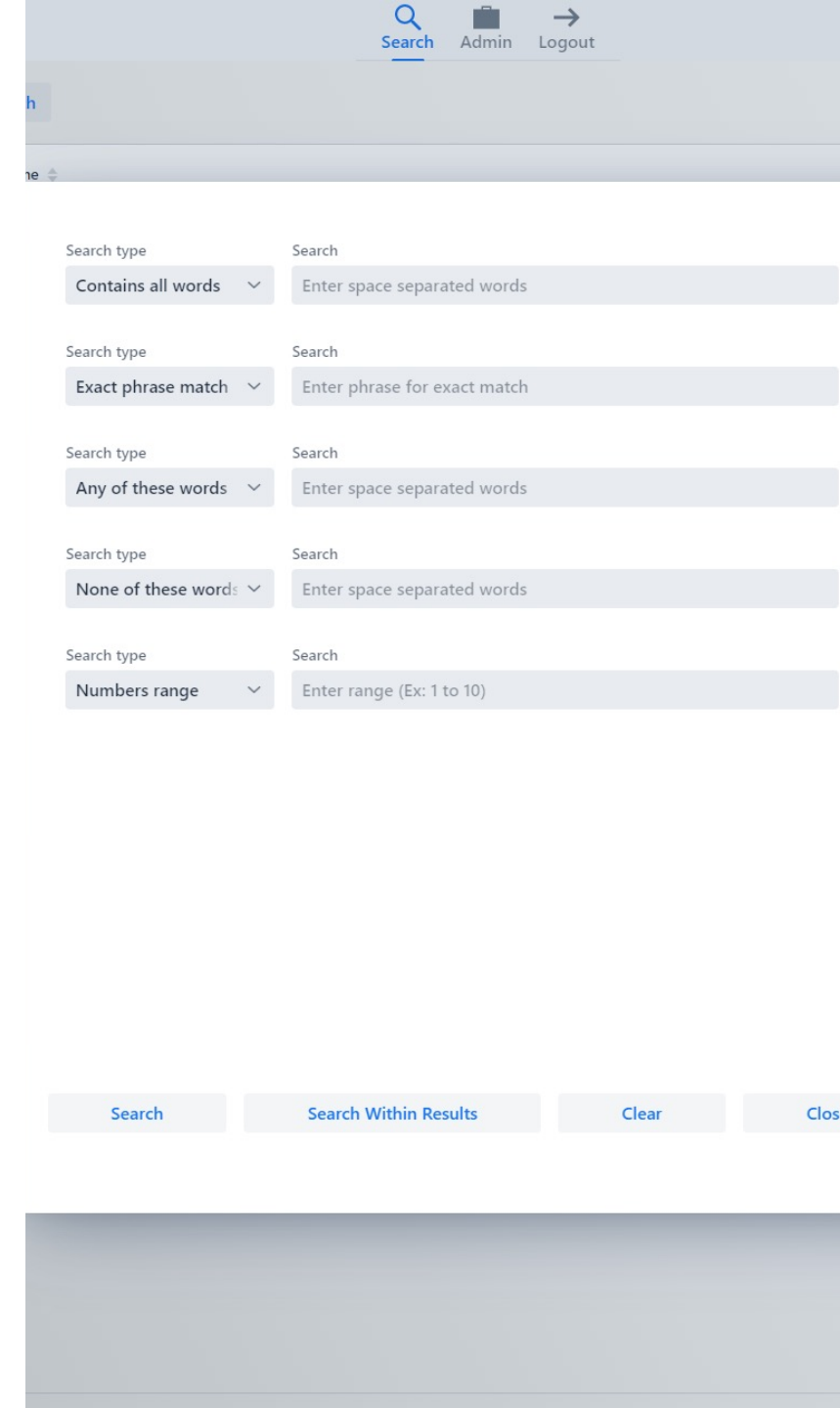
FE-020-0125 © Lance Nelson / The Stock Market

Achieving Synonymy

Find	Merge	Choose	Build
Find like concepts	Merge the terms	Choose a preferred form	Build term record <ul style="list-style-type: none">• Hierarchy• Equivalence• Associative

Integration into Search

- Mandatory input fields, Fixed-length, Display fields in the result, Searchable fields, Subfields
- Database indexing behavior
 - Allows for custom indexing behavior
- Search types
 - Word parse, phrase parse, and indexing terms
 - Boolean search types: Equals, Not, Or, Number, Exact matches, etc....
 - Can be mixed and matched based on the desired query
- Sortable fields
 - Sort fields in export or other views (already in-spec)
- Search implementation
 - Search against title, abstract, descriptors, organizations, people names, and geographic information
- Allows for map-integration
 - Utilize a GIS field for presenting the location meta-data of records



Content Management – More Than Just Documents

- Content management is much more than acting as a document store
 - Ability to upload and store additional data-types
 - Videos
 - Images
 - Files
 - Excel
 - Word
 - Etc....
 - Ability to serve the content along-side the document
 - API's to access and deliver the objects
 - While AWS provides this, it is generally very complex
 - XIS simplifies this process via understanding the target audience
 - Challenges for libraries
 - Systems are often designed for naïve implementations
 - Storage of books and journals and the like
 - XIS solves this by giving a use-case specific implementation of CMS



Search Software

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Adding the Taxonomy

Presentation layer (User Interface)




www.google.com/?client=safari



Google

About Store

Gmail Images  



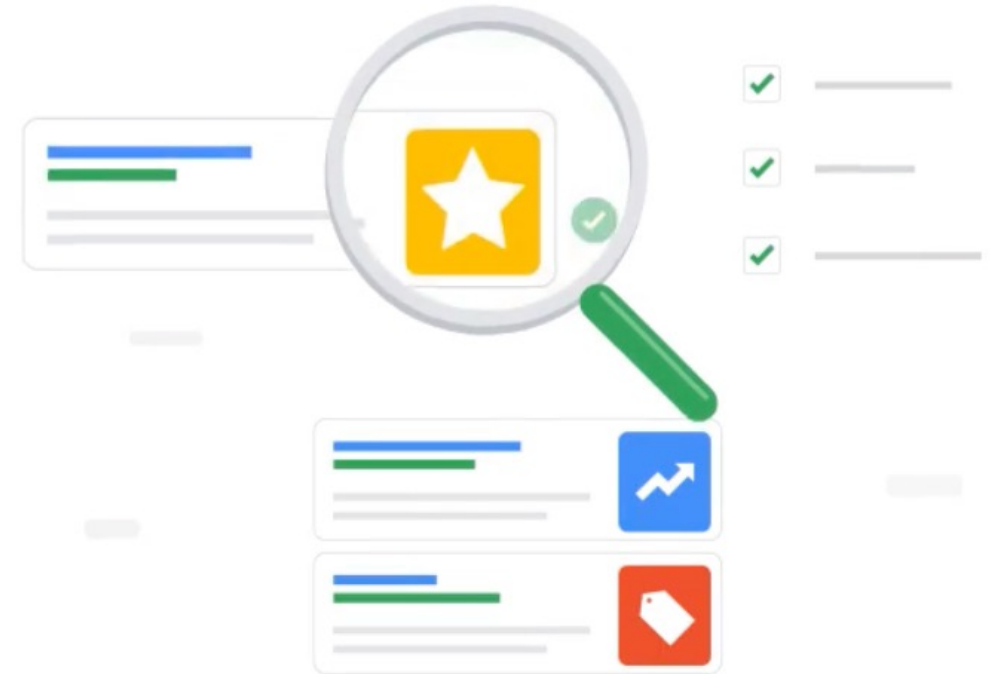
Google Search

I'm Feeling Lucky

Just give me Google!

Google

- Billions of pages
- Trillions of queries
 - 15% new topics each day
- User Contributed Content
- Ranking of pages
- Synonyms
- Interpretive meaning of query
 - understanding exactly what you mean and giving you back exactly what you want
- Doesn't work on small collections



Taxonomy Search

media@ sleuth Home | Company | Buyer's Guide

Auto-completion Using the Taxonomy

MediaSleuth

Cell

- Cell chemistry
- Cell communication
- Cell division
- Cell life cycles
- Cell nutrition
- Cell pathology
- Cell phones (nonpreferred)
- Cell physiology (nonpreferred)
- Cell structure
- Cello
- Cellular biology
- Cellular telephones (nonpreferred)
- Sickle cell disease
- Fuel cells
- Stem cells

153 docs (0.0 seconds)

> Expand your search
-Thesaurus Related Terms

- [Cell chemistry](#)
- [Molecular biology](#)

> Target your search
-Thesaurus Narrower Terms

- [Biosynthesis](#)
- [Cells \(Biology\)](#)
- [Enzyme production](#)
- [Nucleic acids](#)

Guide the user by applying various semantic relationships

The Plasma Membrane
Examines the structure and function of the plasma membrane. Descriptors: **Cellular biology**
<http://www.mediasleuth.com/revmai/bibrec.php?accnum=1>

Cell Structure
Explores the **biology** of cells. Descriptors: **Cellular biology**
<http://www.mediasleuth.com/revmai/bibrec.php?accnum=1>

The Bio - Bombshell
Tells the story of the latest and most far-reaching scientific revolution, the growth of bioindustry. Explores the new techniques and how they will be used. Descriptors: Microbiology - Genetics - **Cellular biology**
<http://www.mediasleuth.com/revmai/bibrec.php?accnum=1>

Navigate the full Taxonomy "tree"

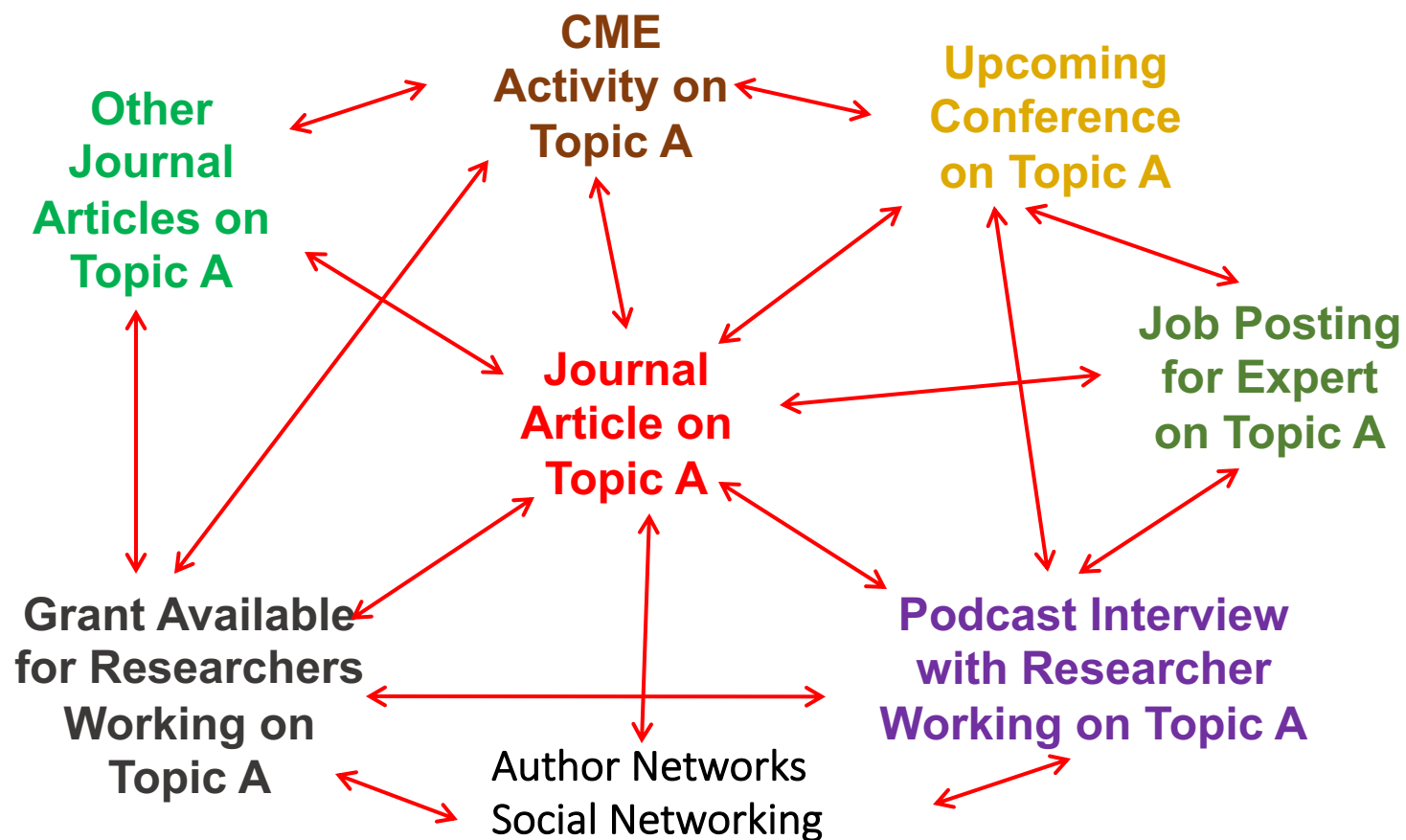
- Agriculture (695)
- Applied technologies (83)
- Business (2246)
- Communications (443)
- Computer and information science (109)
- Economics (1177)
- Education (5211)
- Family (1)
- Geography (1)
- Health (1)
- History (1)
- Languages (619)
- Literature and drama (90)
- Mathematics (723)
- Persons and occupations (83)
- Place names (11)
- Political science (510)
- Psychology (2438)
- Religion and philosophy (532)
- Science (2524)
 - Children's science activities (196)
 - History of science (134)
 - Natural sciences (394)
 - Biology (794)
 - Biological classification (113)
 - Biological competition (2)
 - Biological diversity (55)
 - Biological evolution (131)
 - Biological classification (8)
 - Biophysics (1)
 - Biorhythms (3)
 - Botany (518)
 - Cellular biology (153)**
 - Biosynthesis (2)
 - Cells (Biology) (9)
 - Enzyme production (5)
 - Nucleic acids (0)

Direct link to e-commerce to improve sales

The screenshot shows the 'medi@sleuth' website interface. At the top, it says 'Your One-Stop Shop for Educational Media'. The navigation bar includes links for 'all titles', 'power search', 'buying guide', 'shopping cart', and 'customer service'. The 'medi@sleuth' logo is on the left, and a search bar with a 'Quick Search' button and a 'Find' button is on the right. The main content area displays product information for 'In Search of Learning ESP', including the year 1976, duration of 24 minutes, and language details. A 'Product Details' section lists color, LC number (77-701077), and producer (LNDBRG). A 'User comments' section prompts users to submit comments. On the right side, a 'For PURCHASE' box contains pricing information ('Price: Call for pricing'), availability, order number (0059148-3-1), and two buttons: 'Add to Cart' and 'View Cart'.

Link search and taxonomy directly to the supply or documents or by redirecting to a shopping cart

Link to Additional Resources



Sample Linked Page

Cancer Epidemiology Biomarkers & Prevention

Vol. 12, 161-164,

February 2003

© 2003 [American Association for Cancer Research](#)

Short Communications

Alcohol, Folate, Methionine, and Risk of Incident Breast Cancer in the American Cancer Society Cancer Prevention Study II Nutrition Cohort

Heather Spencer Feigelson¹, Carolyn R. Jonas, Andreas S. Robertson, Marjorie L. McCullough, Michael J. Thun and Eugenia E. Calle Department of Epidemiology and Surveillance Research, American Cancer Society, National Home Office, Atlanta, Georgia 30329-4251

Recent studies suggest that the increased risk of breast cancer associated with alcohol consumption may be reduced by adequate folate intake. We examined this question among 66,561 postmenopausal women in the American Cancer Society Cancer Prevention Study II Nutrition Cohort.

Related Press Releases

- [How What and How Much We Eat \(And Drink\) Affects Our Risk of Cancer](#)
- [Novel COX-2 Combination Treatment May Reduce Colon Cancer Risk Combination Regimen of COX-2 Inhibitor and Fish Oil Causes Cell Death](#)
- [COX-2 Levels Are Elevated in Smokers](#)

Related AACR Workshops and Conferences

- [Frontiers in Cancer Prevention Research](#)
- [Continuing Medical Education \(CME\)](#)
- [Molecular Targets and Cancer Therapeutics](#)

Related Meeting Abstracts

- [Association between dietary folate intake, alcohol intake, and methylenetetrahydrofolate reductase C677T and A1298C polymorphisms and subsequent breast](#)
- [Folate, folate cofactor, and alcohol intakes and risk for colorectal adenoma](#)
- [Dietary folate intake and risk of prostate cancer in a large prospective cohort study](#)

Related Working Groups

- [Finance](#)
- [Charter](#)
- [Molecular Epidemiology](#)

Webcasts

[Related Webcasts](#)

Think Tank Report

[Related Think Tank Report Content](#)

Related Awards

- [AACR-GlaxoSmithKline Clinical Cancer Research Scholar Awards](#)
- [ACS Award](#)
- [Weinstein Distinguished Lecture](#)

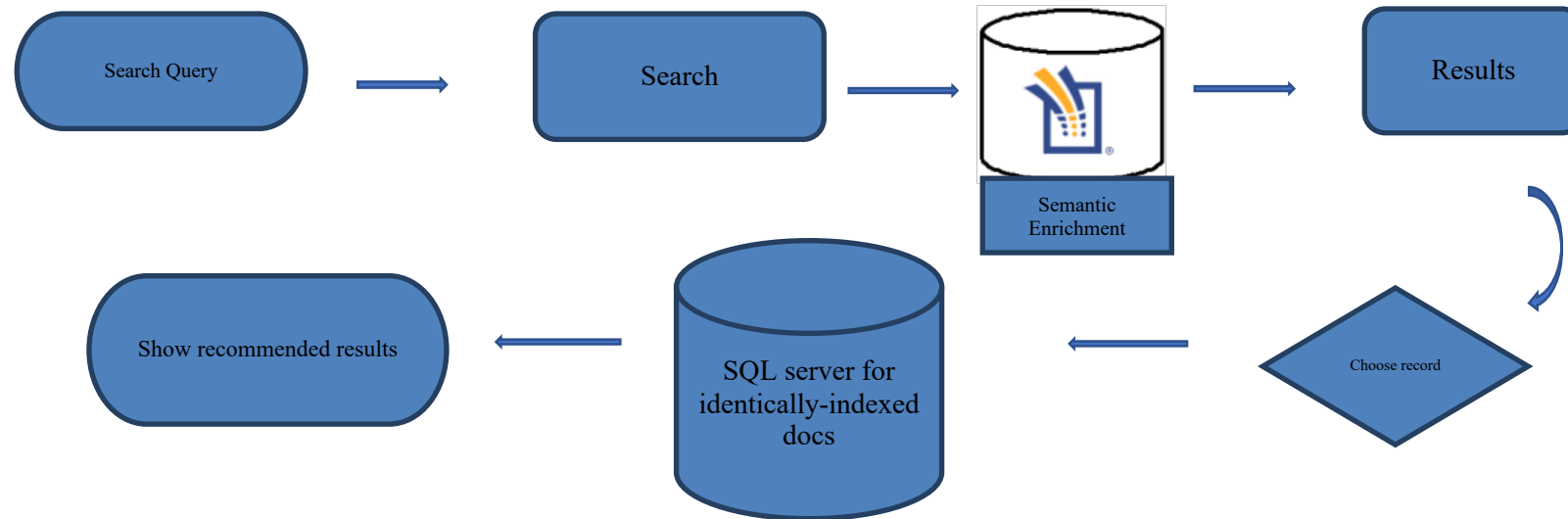
Related Education Book Content

[Oral Contraceptives, Postmenopausal Hormones, and Breast Cancer](#)
[Physical Activity and Cancer](#)
[Hormonal Interventions: From Adjuvant Therapy to Breast Cancer Prevention](#)

Recommender



Recommender Flowchart



Recommender

National Information Center for Educational Media

Results for **Biochemistry** [click here for a key word search](#)

1 - 10 of 589 docs (0.01 secondes)

Biochemistry

Facilitates learning about **biochemistry**. Includes the topics of carbohydrates and lipids, proteins
Descriptors : **Biochemistry** - Proteins - Carbohydrates - Lipids - Acids (Chemistry)
<http://www.mediasleuth.com/revmai/bibrec.php?accnum=494436>

Introduction to Biochemistry

Introduces the science of **biochemistry**.
Descriptors : **Biochemistry**
<http://www.mediasleuth.com/revmai/bibrec.php?accnum=61697>

Basic Biochemistry

Covers the structure of the common cellular organic molecules. Explains the process of dehydration.
Descriptors : **Biochemistry**
<http://www.mediasleuth.com/revmai/bibrec.php?accnum=204948>



Select an
article from
Search
Results

> **Expand your search**
-Thesaurus Related Terms

[Molecular biology](#)

> **Target your search**
-Thesaurus Narrower Terms [Cell chemistry](#)
[Life processes chemistry](#)

National Information Center for Educational Media

Biochemistry

Facilitates learning about biochemistry. Includes the topics of carbohydrates and lipids, proteins, nucleic acids, buffers, protein synthesis, and enzymes.
Descriptors : Biochemistry - Proteins - Carbohydrates - Lipids - Acids (Chemistry)

More like this documents:

- [The Chemistry of Life, the Chemistry of Carbohydrates and Lipids, the Chemistry of Proteins](#) : Facilitates learning about the biochemistry of carbohydrates...
- [Biochemistry - Pt 1](#) : students an understanding of cellular function. Examines...
- [Basic Biochemistry of Life](#) : Presents basic concepts in biochemistry. Examines...
- [Fundamental Human Nutrition](#) : , metabolic regulation, and energy sources. Defines...
- [Molecules of Life](#) : Traces the chemical and molecular basis of human life...
- [The Ph Concept](#) : Discusses the chemical nature and measurement of ph...
- [Simple Nutrition](#) : Presents an elementary introduction to nutrition. Discusses...
- [Nuclear Acids](#) : of protein synthesis. Breaking The Code Of Nucleic...
- [Thread of Life](#) : Shows how a virus can be reconstituted from nucleic...
- [Special Topics in Chemistry](#) : Presents a four - part program on basic chemistry...



After an article is selected, a machine-to-machine call is made to your indexed corpus to retrieve articles with identical indexing parameters

Content Recommender

National Information Center for Educational Media

music theory

Search

Results for **music theory** [click here for a key word search](#)

Music Theory Fundamentals
Includes ten study charts featuring **music** alphabet, sharps, flats, rhythm, time signatures, key
Descriptors : Meter and rhythm - **Music theory** and composition
<http://www.mediasleuth.com/revmai/bibrec.php?accnum=82275>

Music Theory Fundamentals
Includes ten study charts featuring **music** alphabet, sharps, flats, rhythm, time signatures, key
Descriptors : Meter and rhythm - **Music theory** and composition
<http://www.mediasleuth.com/revmai/bibrec.php?accnum=179810>

Practical Music Theory Series
Presents the complete three - part series on practical **music theory** created by Sandy Feldstein
Descriptors : Musicology - Musical notation - **Music** - **Music theory** and composition - Meter and rhythm - Harmony
<http://www.mediasleuth.com/revmai/bibrec.php?accnum=404250>

Essentials of Music Theory - Compact Disc 1
Introduces musical concepts through lessons followed by exercises. Covers note values, time signatures, triads, intervals, scales, and ear training. Includes rhythmic, melodic, and harmonic exercises performed by a number of different instruments including piano, flute, clarinet, and cello.
Descriptors : **Music theory** and composition - **Music** appreciation
<http://www.mediasleuth.com/revmai/bibrec.php?accnum=473483>

Essentials of Music Theory - Compact Disc 2
Introduces musical concepts through lessons followed by exercises. Covers note values, time signatures, triads, intervals, scales, and ear training. Includes rhythmic, melodic, and harmonic exercises performed by a number of different instruments including alto sax, trumpet, trombone, and violin.
Descriptors : **Music theory** and composition - **Music** appreciation
<http://www.mediasleuth.com/revmai/bibrec.php?accnum=473485>

Content Recommender

National Information Center for Educational Media

Practical Music Theory Series

Presents the complete three - part series on practical music theory created by Sandy Feldstein for Alfred's Publishing. Covers staff, clefs, measures, time signatures, notes, rests, ties and slurs, repeats and endings, flats, sharps and naturals, scales, key signatures, dynamics, tempos, chords, inversions and harmonizing. Apple version compatible with Commodore computers, IBM version available in 3.5 and 5.25 diskettes. Includes theory books.

Descriptors : Musicology - Musical notation - Music - Music theory and composition - Meter and rhythm - Harmony

More like this documents:

- [Practical Music Theory - Volume 3](#) : and 5.25 diskettes. Part 3 of a three - part series...
- [Alfred Music Achievement Series](#) : and rhythmic notation , music terminology and ties...
- [Practical Music Theory - Volume 2](#) : on practical music theory created by Sandy Feldstein...
- [Practical Music Theory - Volume 1](#) : series on practical music theory created by Sandy...
- [Basic Piano Theory Software - Levels 1a, 1b, 2](#) : Alfred's Basic Piano Theory - Levels 1 - 5 and adult....
- [Basic Piano Theory Software - Levels 3, 4, 5](#) : Alfred's Basic Piano Theory - Levels 1 - 5 and adult....
- [Basic Piano Theory Software - Adult Level](#) : Alfred's Basic Piano Theory - Levels 1 - 5 and adult....
- [Basic Piano Theory Software - Student Version - Level 1A](#) : Offers student diskette only, Level 1A, from Alfred's...
- [Basic Piano Theory Software - Student Version - Level 1B](#) : Offers student diskette only, Level 1B, from Alfred's...
- [Basic Piano Theory Software - Student Version - Level 2](#) : Offers student diskette only, Level 2, from Alfred's...

Thesaurus terms

Similar content

The more terms in common, the higher the recommendation of content as similar.

Search Leverage

Search Priority Using the Thesaurus terms

- Better precision and recall in search
- No false presentations
- Insures full coverage of publications
- Synonymy fully expanded to match the thesaurus
- Searches the thesaurus terms first on the tagged documents

Triple store leverage

- Provide new connection options in search
- Expand the connections users can make

Knowledge graph presentations for an expanded user experience

Integration first with the current user interface

Expand the options for the users with the new technology behind the scenes

```
3
4 <!-- MAI="nicrule" MAIDir="/data/nicrule" -->
5 <Docset name="records" grouping="1000" keylength="7" stopword="stopword.lst"
6         delim="" fieldsep="_"
7
8         DocFileManager="Zipped" Synonym="Simple"
9         extension="xml"
10        checkOnSave="xisapplet.CekeChecker"
11        IndexerType="Fielded">
12
13    <Field name="MDT" altname="Publication Type"
14          format="SingleTF"
15          width="9"
16          required="yes"
17          index="yes"
18          checkfile="metadoctypes"
19          makecaps="yes"
20          verify="yes"
21          hitfield="yes"
22          />
23    <Field name="SDT" altname="Doctype CEKE"
```

Word and Term Parsing In Search

Stemming

- -ing, -ed, -es, -'s, -s', etc.
- Depluralization

Truncation

- Left and right

Wild cards

- Organi*ation

Variant Spellings

- Centre, center

Hyphens

Search Taxonomy Terms First

Tag	Search	Add	Search
<p>Tag the content with the taxonomy</p>	<p>Search the preferred form – taxonomy term first</p>	<p>BUT add all synonyms as equal to the term so they are all searched together</p>	<p>Then search body and abstract title</p> <ul style="list-style-type: none">• If desired• If no results on controlled terms

Linked Data

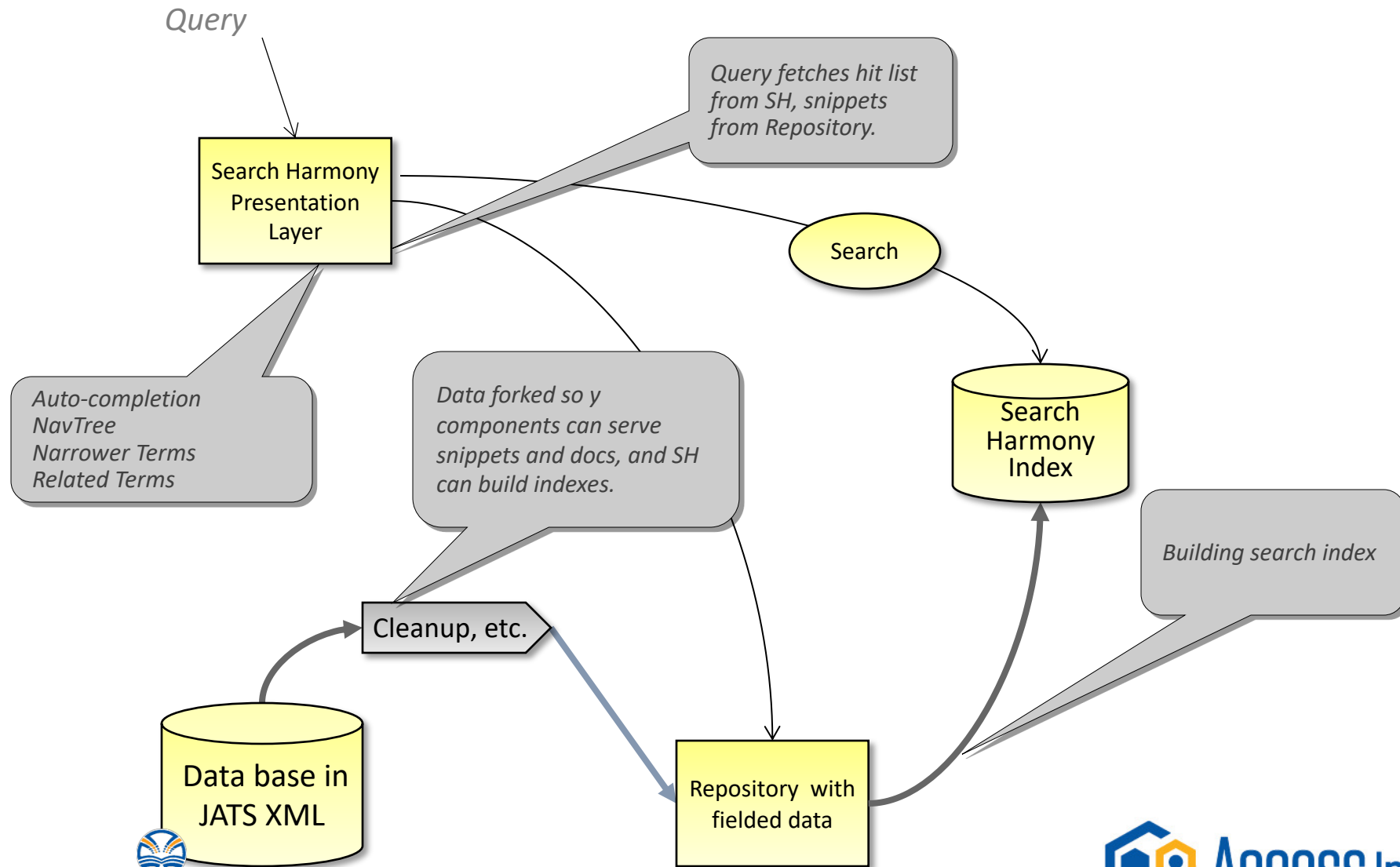
Assert that the AIP Thesaurus term “Nonlinear optics” refers to the **same concept** as the dbpedia page “Nonlinear optics” by putting links in both places.

The image shows a web interface for a physics knowledge base. On the left is a hierarchical tree of topics under 'aipthes1.2', with 'Nonlinear optics' selected. The central panel shows a search for 'Nonlinear optics' with a list of related terms like 'Cross phase modulation' and 'Dynamic gratings'. The right panel displays the 'About: Nonlinear optics' page, which includes a description of NLO and a table of properties and values.

Property Value

Property	Value
dbpedia-owl:abstract	Nonlinear optics (NLO) is the branch of optics that describes the behavior of light in nonlinear media, that is, media in which the dielectric polarization P responds nonlinearly to the electric field (values of the electric field comparable to interatomic electric fields, typically 10 ⁸ V/m) such as those provided by pulsed lasers. Above the Schwinger limit, the dielectric polarization P responds nonlinearly to the electric field, typically 10 ⁸ V/m) such as those provided by pulsed lasers.
dbpedia-owl:wikiPageExternalLink	<ul style="list-style-type: none">http://cns-alumni.bu.edu/~slehar/PhaseConjugate/PhaseConjugate.htmlhttp://simphotek.com/bckg/bckg.CONTENT.htmlhttp://www.advr-inc.com/waveguide.htmlhttp://www.amazon.com/Nonlinear-Fiber-Optics-Fourth-Photonics/dp/0123695163/ref=sr_1_1?s=books&ie=UTF8&qid=1313111745&sr=1-1http://www.amazon.com/Nonlinear-Optics-Third-Robert-Boyd/dp/0123694701/ref=sr_1_1?ie=UTF8&qid=1313111421&sr=8-1http://www.amazon.com/Principles-Nonlinear-Optics-Classics-Library/dp/0471430803/ref=sr_1_1?ie=UTF8&qid=1313111566&sr=8-1http://www.as-photonics.com/SNLO.htmlhttp://www.rp-photonics.com/encyclopedia.html
dbpedia-owl:wikiPageID	21723 (xsd:integer)
dbpedia-owl:wikiPageRevisionID	598343696 (xsd:integer)
dbpprop:hasPhotoCollection	http://wifo5-03.informatik.uni-mannheim.de/flickrwrapp/photos/Nonlinear_optics
dcterms:subject	category:Nonlinear_optics
rdfs:type	<ul style="list-style-type: none">yago:BodyPart105220461yago:Eye105311054yago:Organ105297523yago:Part109385911yago:SenseOrgan105299178yago:Thing100002452yago:NonlinearOpticsyago:PhysicalEntity100001930
rdfs:comment	Nonlinear optics (NLO) is the branch of optics that describes the behavior of light in nonlinear media, that is, media in which the dielectric polarization P responds nonlinearly to the electric field (values of the electric field comparable to interatomic electric fields, typically 10 ⁸ V/m) such as those provided by pulsed lasers.
rdfs:label	Nonlinear optics
owl:sameAs	<ul style="list-style-type: none">fbase:Nonlinear_opticshttp://fr.dbpedia.org/resource/Optique_non_linéairehttp://de.dbpedia.org/resource/Nichtlineare_Optikhttp://wikidata.dbpedia.org/resource/Q756033http://cs.dbpedia.org/resource/Nelineární_optikahttp://es.dbpedia.org/resource/No_linealidad_ópticahttp://it.dbpedia.org/resource/Ottica_non_linearehttp://ja.dbpedia.org/resource/非線形光学http://ko.dbpedia.org/resource/비선형_광학http://nl.dbpedia.org/resource/Niet-lineaire_opticahttp://pl.dbpedia.org/resource/Optyka_nieliniowahttp://pt.dbpedia.org/resource/Optica_não_linearhttp://wikidata.org/entity/Q756033http://yago-knowledge.org/resource/Nonlinear_opticshttp://ja.dbpedia.org/resource/非線形光学http://be.dbpedia.org/resource/Нелінейная_оптыкаhttp://bg.dbpedia.org/resource/Нелинейна_оптикаhttp://fa.dbpedia.org/resource/لینیک_غیرخطیhttp://he.dbpedia.org/resource/אופטיקה_לִנְיָוּתhttp://hu.dbpedia.org/resource/Nemlineáris_optikahttp://lt.dbpedia.org/resource/Netiesinė_optikahttp://mn.dbpedia.org/resource/Шугаман_биш_оптик

Sample – Search Harmony Deployment



The User Interface and Experience

- The most critical component
- User-driven features for speeding the delivery of content
 - A UI/X driven experience
 - For configuring document structures
 - Creates and displays API calls to retrieve/store data
 - user may copy and paste into their application layer
 - Allow for on the fly changes to the document schema
 - Can be configured to automatically serve and update the API settings with no need for input from the programmers

Search type: Contains all words | Search: Enter space separated words | -

Search type: Exact phrase match | Search: Enter phrase for exact match | -

Search type: Any of these words | Search: Enter space separated words | -

Search type: None of these words | Search: Enter space separated words | -

Search type: Numbers range | Search: Enter range (Ex: 1 to 10) | +

Search Search Within Results Clear Close

ASCO Meeting Library

Session: Breast Cancer—Local/Regional/Adjuvant

Cost-effectiveness of the Oncotype DX Breast Recurrence Score with node-positive early breast cancer based on the RxPONDER trial

Add to Collection 

 Abstract

Authors:

Vladislav Berdunov, Steve Millen, Andrew Paramore, Sarah Reynia, Nina Fryer, Georges; PHMR Ltd, London, United Kingdom; Exact Sciences, London, United Kingdom; Exact Sciences, London, United Kingdom; Exact Sciences, London, United Kingdom

Abstract Disclosures

Research Funding:

Exact Sciences.

Background:

The Oncotype DX test is a predictive and prognostic multigene assay used to guide adjuvant chemotherapy in HR+/HER2- early breast cancer. The ability of the Oncotype DX test to predict the benefit of chemotherapy in node-positive early breast cancer was demonstrated in SWOG-8814. This evidence, in combination with findings from a bespoke analysis of the TransATAC study, informed an economic evaluation of the Oncotype DX test by the National Institute for Health and Care Excellence in the UK. This study examined the impact of new evidence from the RxPONDER trial on the cost-effectiveness of the Oncotype DX test in postmenopausal women with node-positive early breast cancer.

Methods:

The cost-effectiveness of the Oncotype DX test compared to clinical risk tools only in postmenopausal HR+/HER2- early breast cancer was estimated using a model in Microsoft Excel. The pre-RxPONDER analysis using the old cut points (RS 0-17, RS 18-30, RS 31-100) was informed by TransATAC and SWOG-8814. The model was updated with 5-year probability of distant recurrence as first site estimates based on new RS cut points (RS 0-25, RS 26-100) from RxPONDER. The impact on incremental lifetime costs and quality-adjusted life-years (QALYs) gained was examined based on the list price for the Oncotype DX test in the UK.

ASCO Meeting Library

RELATED

Genitourinary Cancers Symposium

Cost-effectiveness analysis of neoadjuvant immune checkpoint inhibition (ICI) versus cisplatin-based chemotherapy (CBC) in muscle-invasive bladder cancer (MIBC).

SESSION
Poster Session: Urothelial Carcinoma

AUTHOR(S)
Ali Raza Khaki, Yong Shan, Richard Nelson, Sapna ...

ABSTRACT
419

Gastrointestinal Cancers Symposium

Minimal residual disease (MRD) detection with circulating tumor DNA (ctDNA) from personalized assays in stage II-III colorectal cancer patients in a U.K. multicenter prospective study (TRACC).

SESSION
Poster Session: Colorectal Cancer

AUTHOR(S)
Gayathri Anandappa, Naureen Starling, Ruwaida ...

ABSTRACT
102

Gastrointestinal Cancers Symposium

Cost effectiveness of *DPYD* genotyping to screen for dihydropyrimidine dehydrogenase (DPD) deficiency prior to adjuvant chemotherapy for colon cancer.

SESSION
Poster Session: Colorectal Cancer

AUTHOR(S)
Gabriel A. Brooks, Stephanie Tapp, Allan T. Daly, J...

ABSTRACT
55



Gastrointestinal Cancers Symposium

Real-world outcomes in recurrent versus de novo metastatic pancreatic adenocarcinoma.

SESSION
Poster Session: Pancreatic C...

AUTHOR(S)
Laura Miotke, Christopher ...

ABSTRACT
387



Track:	Breast Cancer—Local/Regional/Adjuvant
Subtrack:	Adjuvant Therapy
Abstract #:	534
Citation:	J Clin Oncol 39, 2021 (suppl 15; abstr 534)
DOI:	10.1200/JCO.2021.39.15_suppl.534

Prognostic tools	Cost effectiveness
Recurrent disease	
Adjuvant chemotherapy	

Search results for "breast cancer index"

RESULTS, MEETING VIDEOS

Cost-effectiveness of the Oncotype DX Breast Recurrence Score in Postmenopausal Women with Node-Positive Early Breast Cancer

The Oncotype DX test is a predictive and prognostic multigene assay used to guide adjuvant chemotherapy in HR+/HER2- early breast cancer. The ability of the Oncotype DX test to predict the benefit of



breast cancer|

breast cancer

breast cancer **index**

breast cancer **brain metastases**

er positive breast cancer

er positive invasive breast cancer

er+ breast cancer

er-positive breast cancer

er-positive invasive breast cancer

her2 positive breast cancer

her2-positive breast cancer

Screenshot of a mobile browser interface. At the top, there are system status icons (signal, Wi-Fi, battery) and the date/time 'Sun Jul 25 10:50 A'. Below that are navigation icons (back, forward, home, search). A navigation menu is visible with links for 'Store', 'Press Center', 'Other Sites', 'Join Now', and 'Sign In'. A search bar is located at the bottom right of the screenshot.

Screenshot of a desktop browser interface. The search bar contains 'breast cancer'. A search result is displayed with the title 'Oncotype DX Breast Recurrence Score test in postmenopausal women with node-positive early ...'. The background text reads: 'Background: The Oncotype DX test is a predictive and prognostic multigene assay used to guide adjuvant chemotherapy in HR+/HER2- early breast cancer. The ability of the Oncotype DX test to predict the benefit of'. The desktop taskbar at the bottom shows various application icons and the system clock.

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17 Results

Sort By DATE ▾

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Program Format ^

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Live Webcast

Duration ^

Under 2 Hours

Half Day


Full Day

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 Format	Date	Credit
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Subject Area

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Role of gender inequality in the burden of mental health disorders and associated factors among health care workers in Ethiopia: A meta-analysis

Birye T. Alemu, K. Gebeyehu

Research Article | published 07 Jul 2021 | PLOS ONE

<https://doi.org/10.1371/journal.pone.0254230>

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Hoang-Minh Dang, Trung T. Lam, Anh Dao, Bahr Weiss

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<https://doi.org/10.1371/journal.pone.0244573>

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Ernest O. Mensah, Moses K. Aikins, Margaret Gyapong, Francis Anto, Moses J. Bockarie, John O. Gyapong

Research Article | published 20 May 2016 | PLOS Neglected Tropical Diseases

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Views: 2281 • Citations: 6 • Saves: 86 • Shares: 1

Taking stock of the social determinants of health: A scoping review

Kelsey Lucyk, Lindsay McLaren

Research Article | published 11 May 2017 | PLOS ONE

<https://doi.org/10.1371/journal.pone.0177306>

Views: 16118 • Citations: 33 • Saves: 219 • Shares: 4

Priorities for Research on Equity and Health: Towards an Equity-Focused Health Research Agenda

Facets or fields to refine search

SEARCH RESULTS

single span GO

116 results

1 2 3 4 5 ... 12 >

DELIVERING A MASTERPIECE

Web Page

Delivering a Masterpiece 2020-09-01 JIM PETERSON, P.E., DBIA, CAROL J. WYNPERLE, P.E., THOMAS MELLETT, P.E., M.ASCE, AND ROBERT J. VAZ, CCM The new Kosciuszko Bridge, also...

<https://www.asce.org/cemagazine/delivering-a-masterpiece/>

P3 PROGRAM HELPS PENNSYLVANIA CUT BRIDGE DELIVERY TIME IN HALF

Kevin Wilcox

Magazine Article | February 14, 2017

An innovative program taps into private activity bonds and employs standardized designs to speed the replacement of structurally deficient spans.

<https://www.asce.org/ce-magazine/web-exclusives/articles/p3-program-helps-pennsylvania-cut-bridge-delivery-time-in-half/>

TURN FOR THE BETTER

Web Page

Turn for the Better 2019-05-01 Keith R. Griesing, P.E., M.ASCE, and Brian J. Mileo, P.E. The Johnson Street Bridge has served as a critical link to the city of Victoria, British Columbia, Canada, for many...

FILTER RESULTS

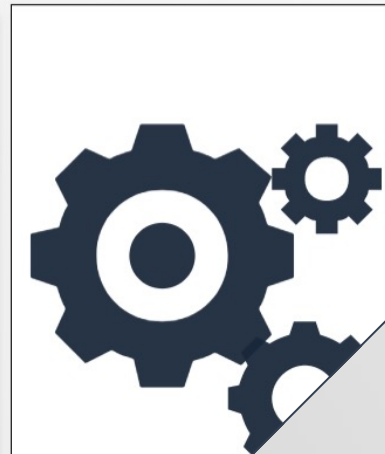
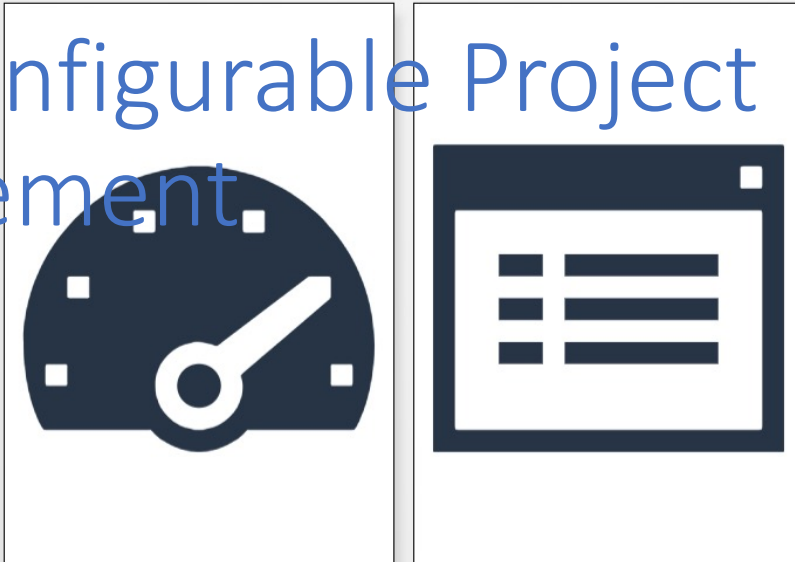
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- All
- Civil Engineering Magazine (52)
- Source (24)
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- Project (15)
- ASCEville (2)
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- Books & Standards (1)
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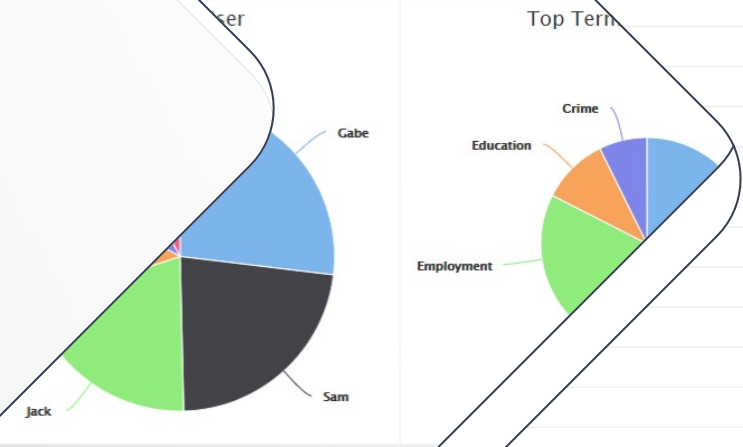
User statistics and analytics

- Provide the end-user with a variety of analytics for how their data is accessed
 - Allow them to make enhancements/improvements to their schemas
 - Demonstrate the robustness and capability of the platform
 - Builds consumer trust

Fully Configurable Project Management



XX,XXX total documents



- The Dashboard allows for full record control
 - Including administration view
 - Modify/Manage XML schema
 - Record search
 - View and edit records from within the UI
 - Dashboard view
 - Presents the user with various project statistics
- Allow for a fluid user experience.
- Consider presenting the data in a hierarchical format.

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Access Innovations are experts in content creation, enrichment, and conversion services. We provide services to semantically enrich and tag raw text into highly structured data. We deliver clean, well-formed, metadata-enriched content so our clients can reuse, repurpose, store, and find their knowledge assets. We go beyond the standards to build taxonomies and other data control structures as a solid foundation for your information. Our services and software allow organizations to use and present their information to both internal and external constituents by leveraging search, presentation, and e-commerce. *We change search to found!*

Quick Facts

- Founded in 1978
- Headquartered in Albuquerque, NM
- Privately held
- Delivered more than 2000 engagements

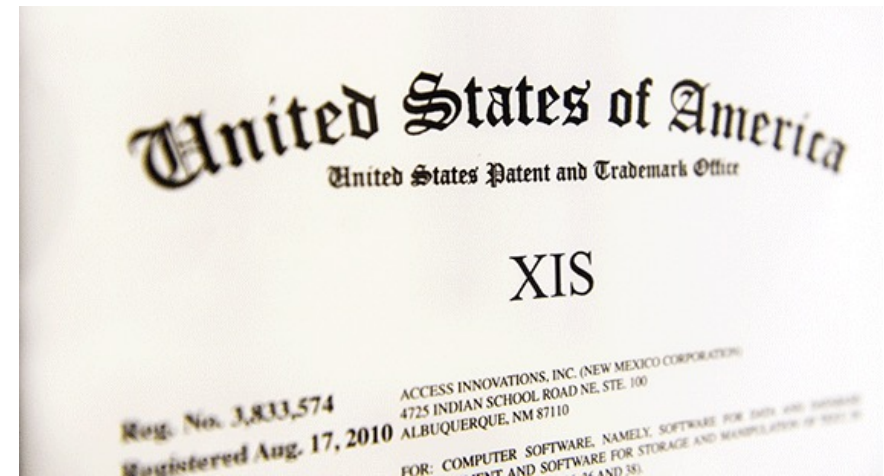
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ACCESS Innovations, Inc.

1.505.998.0800 | www.accessinn.com

6301 Indian School Road NW, Suite 400
Albuquerque, NM 87110

Marjorie Hlava, President
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margie_hlava@accessinn.com

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I would love to chat