Deep Web Technologies’ Roadmap

Abe Lederman, President and CEO
Neeraj Khadakkar, Principal Engineer
Deep Web Technologies, Inc.
BASF, Ludwigshafen
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Agenda

• Coral and Strata directions
• Explorit 2.0 highlights and enhancements
• Other cool things we’re working on
• Enhancements specific to BASF
• Explorit 2.0 demo
Coral and Strata

- Supported through the end of 2013
- Localization:
  - German, French, Spanish, Dutch, Portuguese
    - Stemming, Stop Words
- Multiple Corals per Strata
- Application Authentication
Explorit 2.0 Highlights

• SaaS implementation
  – Cloud-based or behind firewall
• Partner/client/user administration
• Robust connector catalog
• Dynamic user interface configuration
• Mobile applications
Infrastructure Enhancements
Explorit 2.0

• Modular WebServices (SOAP/REST) API
• Highly scalable, fault tolerant architecture
• HTML5 User Interface for mobile devices
• User specific collection-level authentication
• Account level usage monitoring and response (throttling)
• Source level usage monitoring
• Improved collection monitoring
User Interface Enhancements
Explorit 2.0

- Theme-able skins
- Modular UI
- Visualization of cluster results
Explorit 2.0 Timeline

- Q1 2012 - Beta Release of Cloud-based SaaS
- Q2 2012 - Select migration/new customer implementations
- Q3 2012 – Full release of Cloud-based SaaS
Other Cool Things We’re Working On
Multilingual WorldWideScience.org

- A global gateway to international science databases and portals
- All content is from national governments or vetted by national governments
- Developed and maintained by the DOE Office of Scientific and Technical Information, OSTI
- One-stop searching
- Includes databases from China, Japan, Korea, Germany, and other non-English countries
How Multilingual Federated Search Works

Query in user’s language

Foreign language search engines

German

Chinese

Russian

Query in source’s language

Translator

EXPLORIT

Ranked results

Translated to user’s language

Results returned to user

Ranked results

in user’s language

Query to be translated for each source
Quantitative analysis of fatty-acid-based biofuels produced by wild-type and genetically engineered cyanobacteria by gas chromatography-mass spectrometry

Published journal article available from ScienceDirect

Biofuels coproducts tolerance and toxicology for ruminants.

Biofuels and Carbon Management
Climatic Change 2011 Climatic Change, July 2011

Biofuels and biodiversity.
Ecological applications, a publication of the Ecological Society of America, Volume 31, Issue 4, Pages 1083-1095, June 2011
iOS Applications

Saved Search Results

- inflation
- housing
- NYSE
- derivative

Information

About Biznar

3. k-Inflation

★★★★★ From Google Scholar
It is shown that a large class of higher-order (i.e., non-quadratic) scalar kinetic terms can, without the help of potential terms, drive an inflationary evolution starting from rather

4. Inflation tax

★★★★★ From Wikipedia
Inflation tax is a term which refers to the financial loss of value suffered by holders of cash and fixed-rate bonds, as well those on ...

5. Inflation

★★★★★ From Blogpulse
... the task of preventing inflation seem hopeless & shy;ly complicated..... ... ng of the essentials of the prob&shy;lem &mdash;
The rings of Saturn in the aortic arch? An unusual consequence of cardiopulmonary bypass in an acute type-A aortic dissection.

Plasma, plumes and rings.

Thermal observations of Saturn's rings.

Infrared observations of Saturn's rings by Cassini CIRS: Phase angle and local time dependence.
Enhancements of Interest for BASF

- Faceted cluster navigation
- Clustering based on subject specific taxonomies
- Use source supplied scores in ranking
- Improvements to search
Enhancements Under Consideration - Search

- User controllable search comprehensiveness
- Recommendation engine for similar searches, results
- Search Suggest (i.e. Google suggest)
- Directed Search
  - Topical searches (e.g. Search all sources tagged 'Electronics')
  - Search Top Sources (e.g. fastest, most dependable sources)
- Adaptive Search
  - Get more results from most relevant sources
  - Search sources which get most clicked-through results first
  - Use sampling/historical data to determine best sources to search
- Collaborative search
Explorit 2.0 Demo
Thank you!

Abe Lederman
abe@deepwebtech.com

Neeraj Khadakkar
neeraj@deepwebtech.com