Information Imperatives: Trends in Discovering and Applying Online Business Information

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Background Assumptions

Online isn't new and not necessarily free
Online is trendy
ONLINE versus Online
Online isn't Google
Search is omnipresent
Search is misunderstood

ONLINE

ONLINE is the magazine that I edit - 2008 is volume 32 - New tag line (Exploring Technology & Resources for Information Professionals) Online isn't just the internet or web-based resources - Mobile, wireless

- Fee-based, subscription-only resources

ONLINE ≠ Google

- Google is but one of many search engines
- Major alternatives: Yahoo, Ask, Microsoft Live
- Other alternatives: Vertical search engines (industry, country)
 Site search
 - Site search

Search

- There are many varieties of search: Web search, enterprise search, visual search, audio search, customized search, universal (federated) search
- Search is everywhere
- But where is research?

Research

- When people say they researched something online, they probably mean they put 2.3 words into Google;
- Or checked Expedia, Wikipedia,
- Or their corporate intranet;
- But probably not Dialog, Bureau van Dijk, or Euromonitor;
- And they should have asked an info pro!

Assumptions About Information

- Amount of information available in electronic form is overwhelming
- Findability is a major problem
 - How to discover useful, relevant information is challenging and not as simple as entering a term in a web search engine's search box

Analyzing what's been found is crucial – Putting disparate pieces together and drawing conclusions

Internal v External Information

- Is information important to your business?
 Yes
 - But what type? What sources? Cost?
- BI/CI/Strategists/Marketing look internally
 - Customer data, demographics, financials
 - Hard data combined with anecdotal from field sales staff
 - Primary research
 - Interviews, focus groups, surveys

External

Published materials

 Trade press, government documents, newspapers, journals, newswires, statistical sources, market research reports, books

Electronic versions

 Librarians, information professionals, documentalists trained to find external
 Neither is sufficient by themselves

Information v Intelligence

- Information, whether it's externally or internally sourced, becomes intelligence when analyzed
- Critical thinking, imagination, creativity become increasingly important in this transformation as more information becomes findable

Competitive Intelligence

- CI not just about competing companies
- CI looks at entire competitive environment
 - Industries
 - Economy
 - Technology
 - Reputation
 - Law and legislation, regulation
 - Politics

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- Made internal external and external internal
- Exploded the definition of information
- Unpublished data, grey literature, group discussions, audio files, videos, photographs, white papers, conference proceedings
- Transparency of corporate data

Convergence and Confusion

- Entire definitions of "information" need to be revised
- Mindsets about research need to change
 Role of human interaction with information needs to intensify

Search Trends

- Technology
- People
- Managing change

Technology

- Life Cycle of Business Information
 Social Search
- Invisible Web Becomes Visible
- Consolidation
- Disaggregation
- Personalization
- Non-Textual Information
- Past Becomes Present

Life Cycle of Business Information

- No longer linear
- Scattershot
 - Press releases
 - Blogs (official and non-official)
 - Rumors
 - YouTube, Flickr, Slideshare

Issue for info pros: Validity, reliability, remembering to look in offbeat places

Social Search

Tags, folksonomies, replacing taxonomy - Uncontrolled vocabulary displacing indexing Popularity as quality measure Comments on published articles Shared resources (Digg, Reddit, Del.icio.us, etc.); Internal sharing (wikis) Issue for info pros: How wise is wisdom of crowds?

Invisible Web Becomes Visible

Concept of invisible, deep web outmoded More information can be surfaced - Formats, language, company Paradox: Much information remains hidden - Pay per view, privacy, withdrawn, directories Issue for info pros: Use advanced search, specialized databases, think about formats

Consolidation

- Consolidation of companies that provide premium information
 - Thomson, Reed Elsevier, Wolters Kluwer
 - Barriers to starting information companies
 - Private equity ownership
 - Issues around pricing and functionality

Market focus changing away from info pros to sales & marketing, back office applications, enterprise search

Consolidation

Search engine consolidation

- Google buys Blogger, YouTube
- Yahoo buys Flickr, AltaVista, AlltheWeb
- Ask buys Teoma, Bloglines
- Microsoft bids for Yahoo
- MySpace owned by Rupert Murdoch

Web as platform; Search as service?

Issue for info pros: How to track ownership changes and affect on functionality

Disaggregation

No more one stop shop Specialized search engines Data fragmentation Locks on the information doors (SEO, registration, subscription prices) Issues for info pros: It takes longer to find information, but non-info pros think it should take less

Personalization

- Making search relevant to you
- My search results aren't your search results
- Empowering users, raising expectations
- Search engines know where you are
- Issues for info pros: Does this mean search engines will put all their energy into developing consumer products?

Nontextual Information

- Images, audio, video
- Google Earth
- Precision/recall dubious; Search engines don't usually search on sound, picture
- Issues for info pros: Bibliographic control nonexistent, Relevance for business intelligence, How recently was data captured

Displaying Nontextual Information

- Delisting of results
- Universal search (reinventing the wheel)
- Graphic depiction of results, show relationships (Visible Path, Hoover's)
- Grokker, Kartoo, ManyEyes (http://services.alphaworks.ibm.com/manyey es/home), Swivel, Data 360 (www.data360.com)
- Issues: Statistical interpretation

Past Becomes Present

- Internet archive (www.archive.org)
- A blog from World War I? (http://wwar1.blogspot.com)
- Digitization projects
 - Manuscripts, books, photos, memorabilia

Things that weren't findable now are

Issues for info pros: More fragmentation, Usefulness for business intelligence?

People

- How technology trends affect people
- Information overload leads to information overlook
- Need to remember multiple sources and types of sources
- Information is format agnostic
- Not all information is on internet

People

- Ubiquitous computing technology part of everyday life, not something you use at work
- Newspaper? What's a newspaper?
- Mobile technologies
- Using networks
 - Facebook, MySpace, LinkedIn
 - Discussion groups

Information Professionals

- Anyone can search the web
 Not everyone can do it well
 Effective research requires an understanding of sources as well as technicalities of search
 - Combine internal, external information Critical thinking, peripheral vision

Applying Business Information

- Making information actionable
- Internal data mining projects
- Transforming enterprise search into useful information
- Applying new technologies for business/competitive intelligence
 Align discovery and application with business goals

Information Imperative

- Find accurate, reliable, current, relevant information
- Transform information to intelligence
- Assess trustworthiness of sources
- Weave disparate sources into cohesive whole

 Agility, flexibility when discovering and applying business information

Contact

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