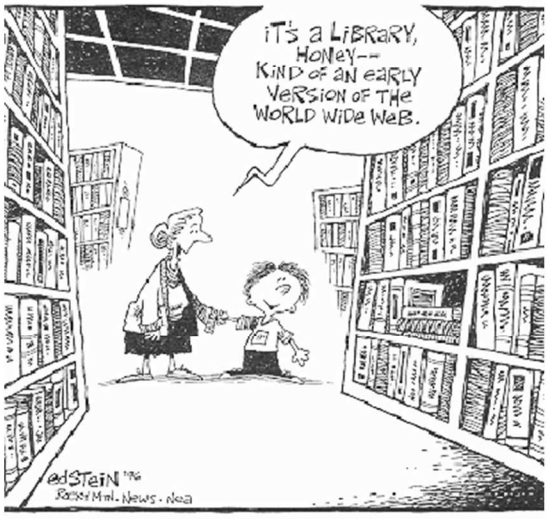
Once upon a time...



USE.pt
http://arts.fe.up.pt/use/use.html

Documentation Services (Library), U. Aveiro
http://www.doc.ua.pt

CETAC.media
http://www.cetacmedia.org/en/

Communication and Art Department, U. Aveiro
http://www.ua.pt/ca/

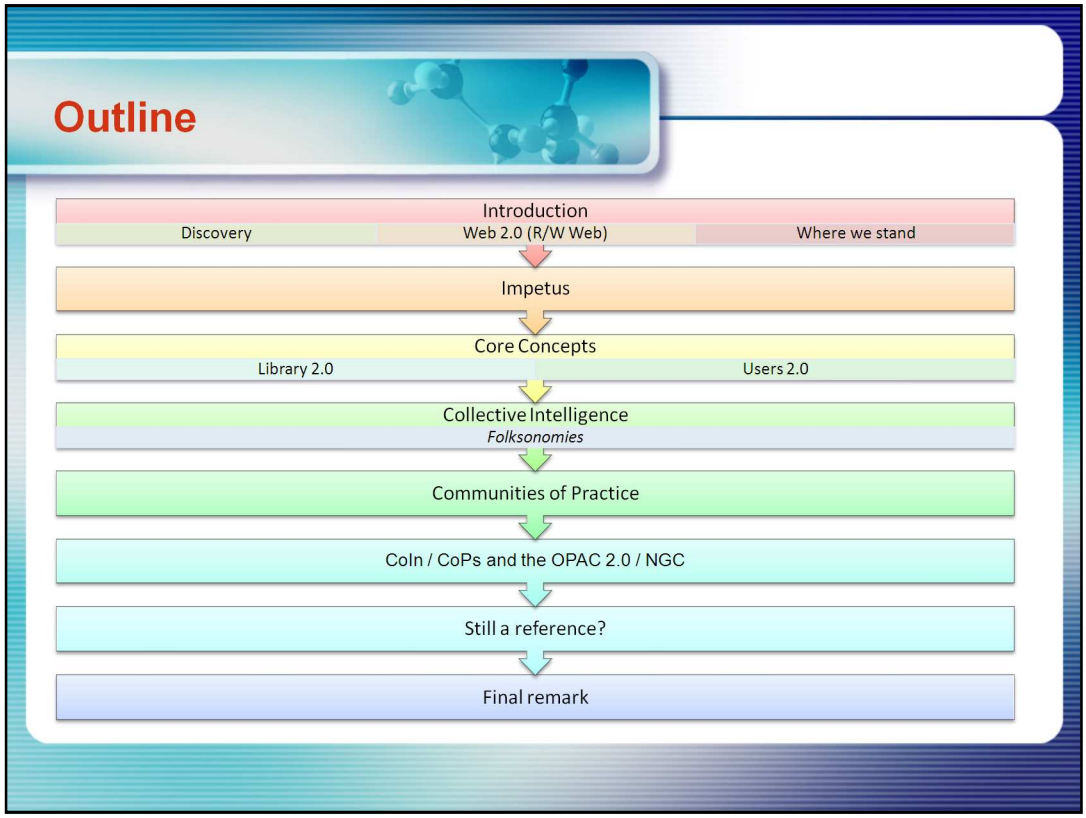
University of Aveiro, Portugal
http://www.ua.pt/

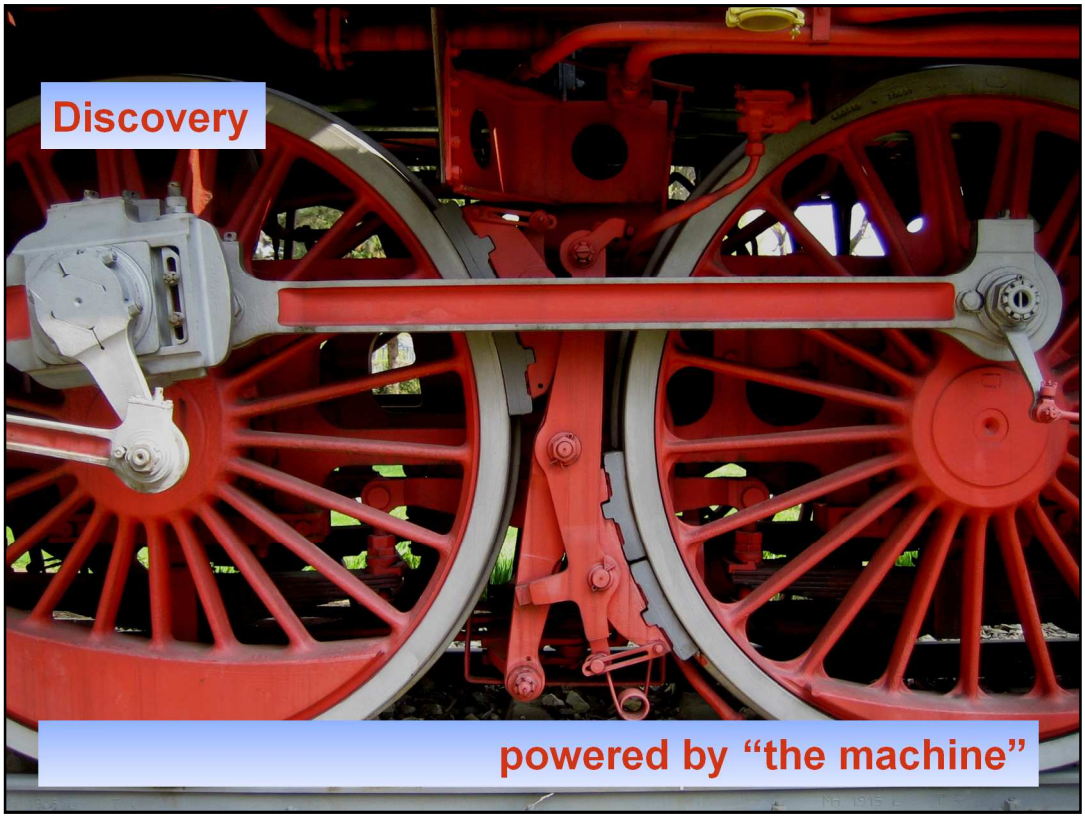
Why?

"He is wise who knows the sources of knowledge - who knows who has written and where it is to be found"

A. A. Hodge (1823-1886)

American Biographer


Outline
Introduction
Discovery
Web 2.0 (R/W Web)
Where we stand
Impetus
Core Concepts
Library 2.0
Users 2.0
Collective Intelligence
Folksonomies
Communities of Practice
CoIn / CoPs and the OPAC 2.0 / NGC
Still a reference?
Final remark



- Powered by “machine’s artificial intelligence” (like the one provided by Ex Libris bX system/service)
- Information Integration / federated search / metadata repositories, like EXL MetaLih / Primo Central or some Open Source projects target intend to implement;
- Mashup algorithms

powered by patrons' "natural intelligence" / Collective Intelligence

Discovery

The “Library empowering the Community” mission best accomplished by…

A Library empowered by the Community!

Before, a quick word about Web 2.0:

Web 2.0 can be demarked from the 1.0 for being extremely rich in both user interactivity and eased user contribution (being encouraged, highly appreciated, rewarded, you might say).

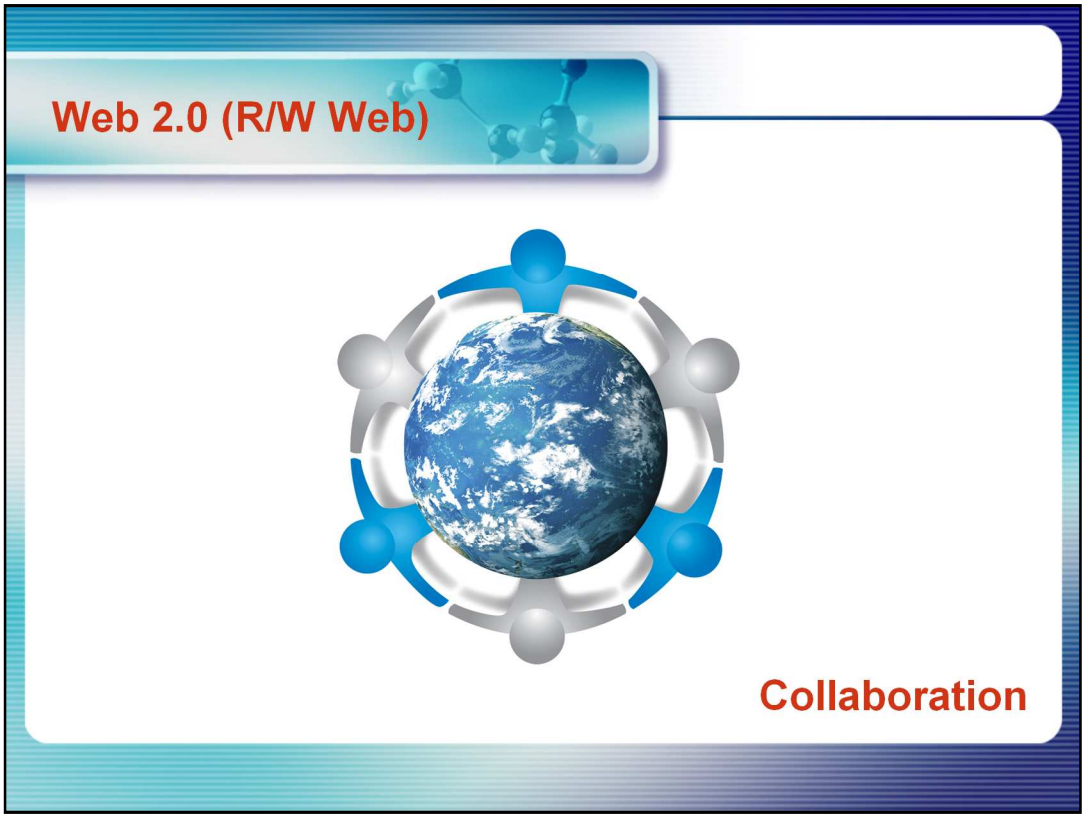
Once those were enabled, Web 2.0 became characterized by 3 Cs, that we shall revisit next.

Well, we can actually say the Web 2.0 it's all about…

Creativity

… and it’s all about Communication.

And these two combined with a specific purpose in mind: it’s also very much all about >



Collaboration

These 3Cs combined (creativity, communication & collaboration) rapidly gave place to >

… ad-hoc communities being explicitly created or implicitly identified.

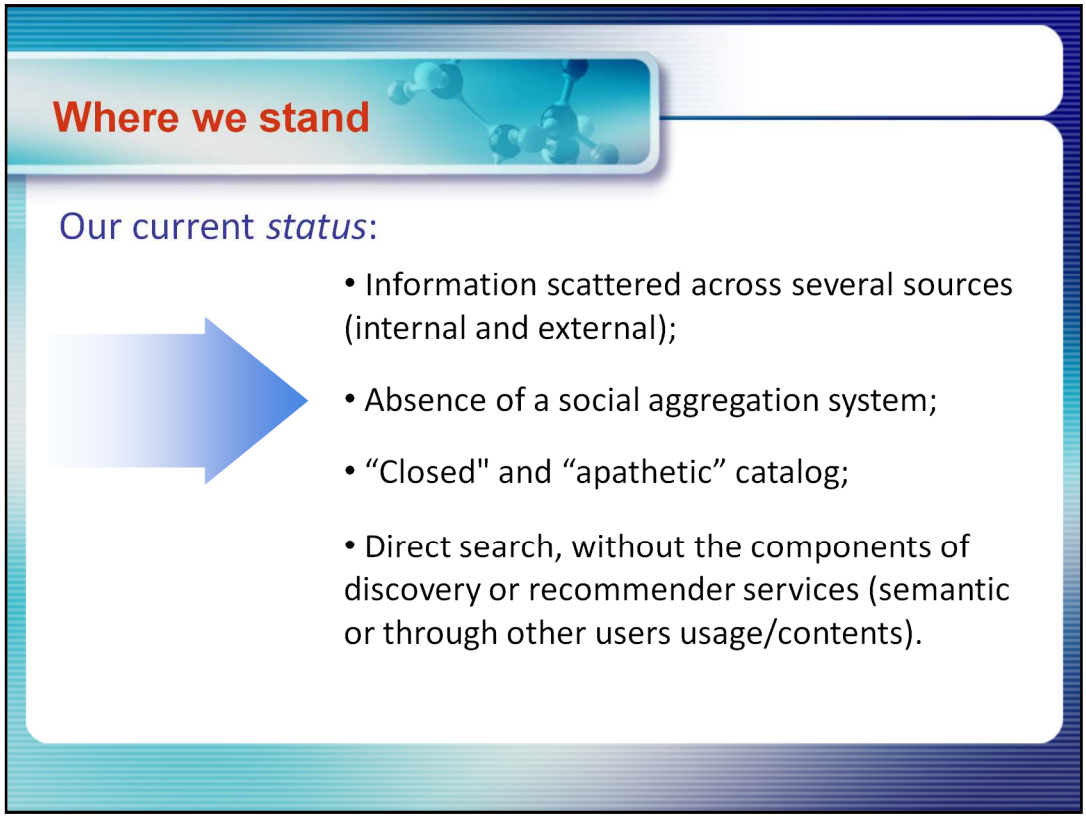
Where we stand

Portugal, five centuries ago:
The Age of Discoveries

Libraries and Documentation Centers, a new era begins:
The Age of Discovery

Search complemented with discovery

Shall I dare to compare the joy of our users when finding exactly what they need with the one of the sailor seeing firm land?



• Information scattered across several sources (internal and external);

UA has 120+ institutional blogs (based at UA servers!) and several CMS based portals (Drupal)

… plus many, many others in the Clouds!!

… information produced by our users scatered across several external services;

… not possible to be agregated

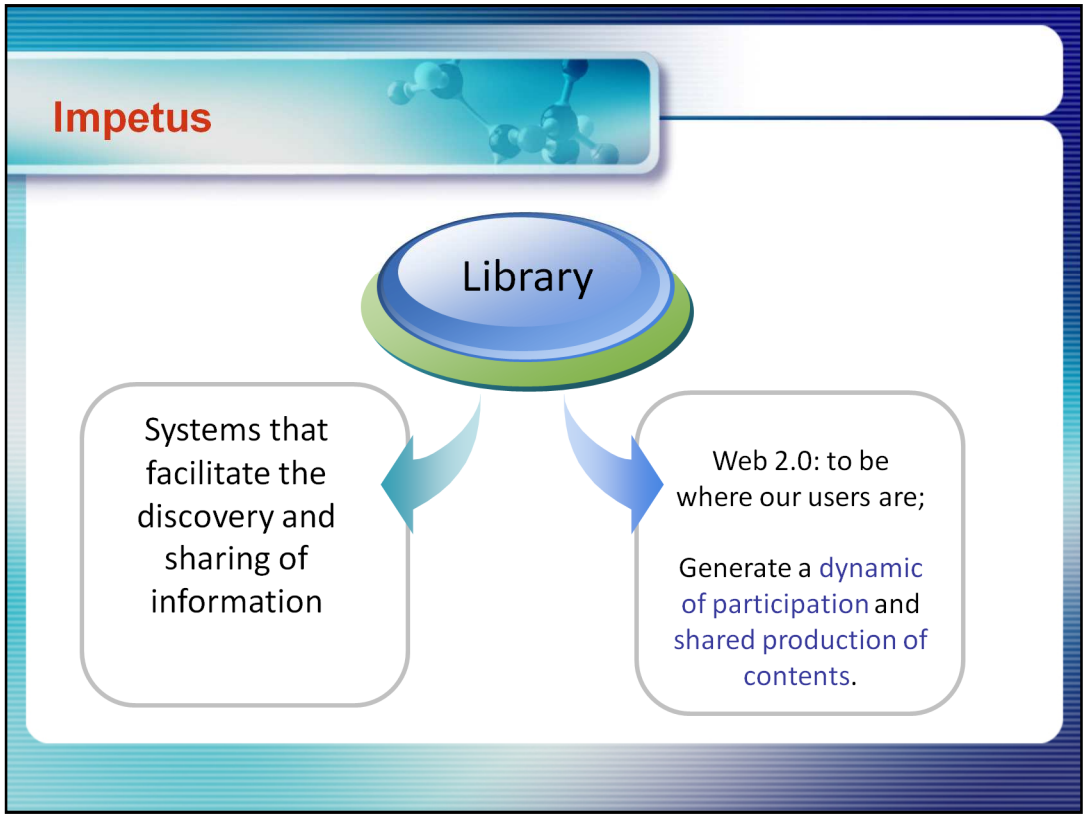
… almost invisible to the rest of the community or even without any garanty of preservation for future usage by other members of our community

• Absence of a social aggregation system;

What are our users creating outside of our "box"? Or even inside?

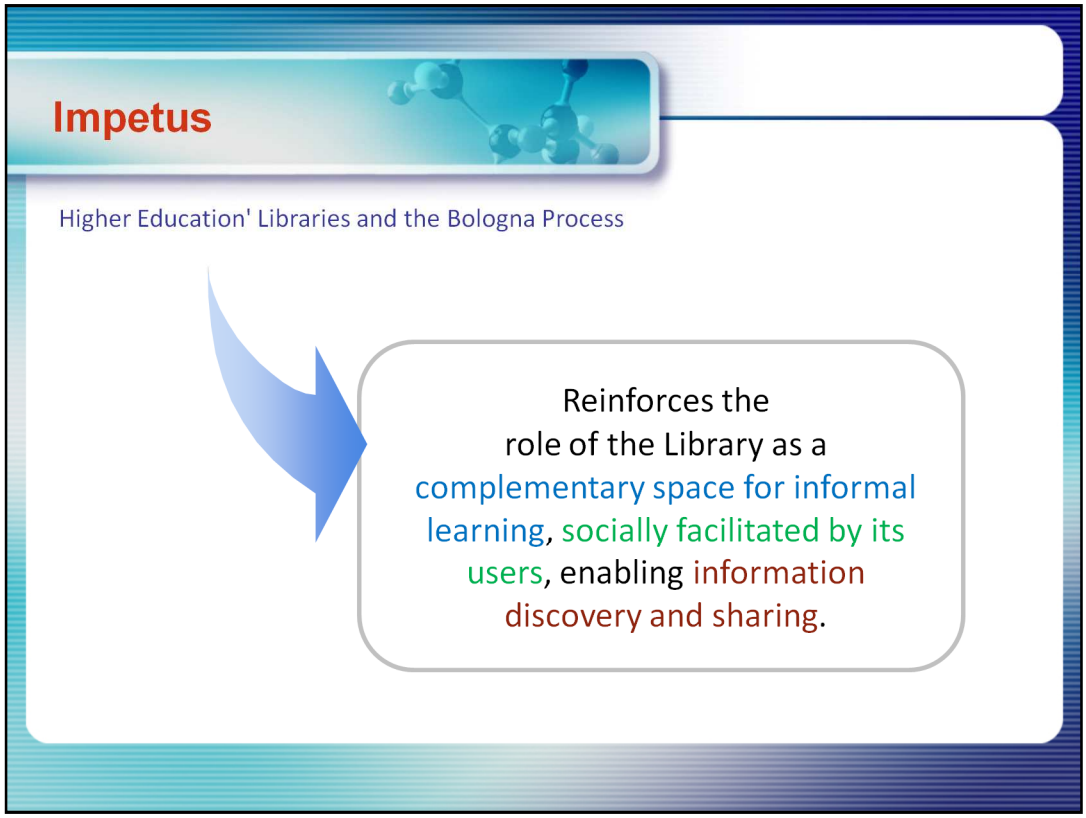
• "Closed" and "apathetic" bibliographic information system;

• Direct search, without the components of discovery or recommender services (semantic or through other users usage/contents).



Strong bet in web 2.0 tools and services: to be where our users are;

Generate a dynamic of participation and shared production of contents.


Impetus
Higher Education' Libraries and the Bologna Process
Reinforces the
role of the Library as a
complementary space for informal
learning, socially facilitated by its
users, enabling information
discovery and sharing.

Core Concepts

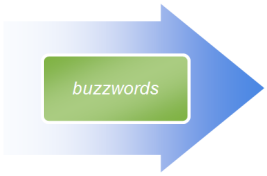
buzzwords

Information Integration
:: Federated search and/or agregation?

Library 2.0
:: Active/Receptive

Users 2.0
:: Participative users

Core Concepts



Information Integration
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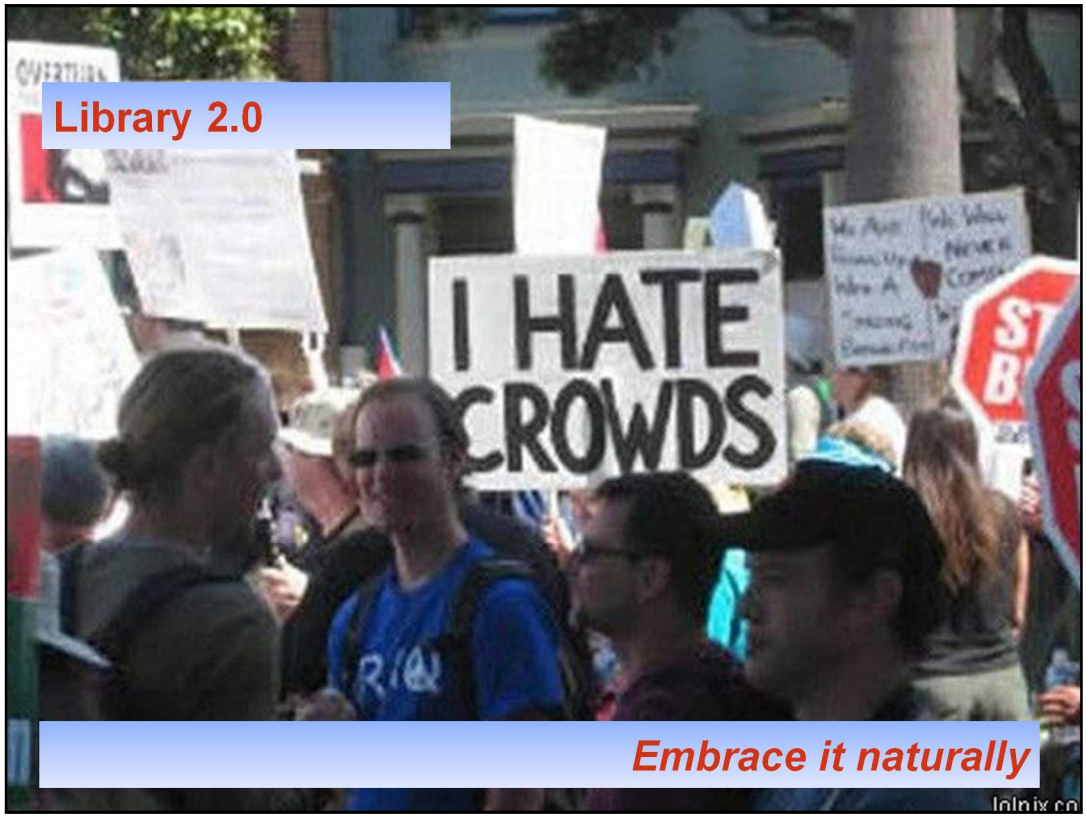

Coerent, really embrace the concept as a natural part of Library's mission, not a forced one

Not because everyone else is doing it

Library 2.0

… doing it wrong …

Don’t worry:
there’s nothing so new around
here that we aren’t able to deal with!

You’re not alone

But don’t worry: there’s nothing new here; it’s just re-invented and used in a diferent context (nothing that we cannot deal with)

Core Concepts

buzzwords

Information Integration
:: Federated search and/or agregation?

Library 2.0
:: Active/Receptive

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Such a discovery and social aggregator system should cope with the Net Generation (students) and >

… "digital immigrants"

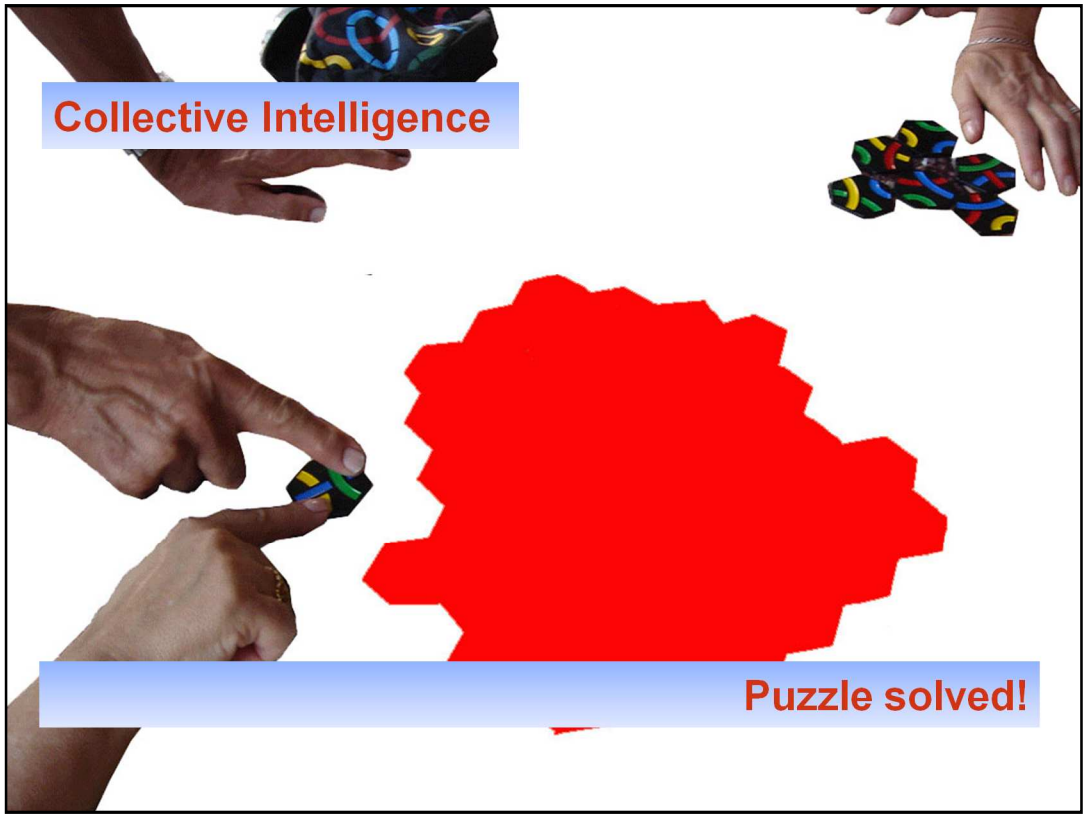
(but perhaps nothing new here: major part of the faculty members has to deal with web 2.0 in remaning activities)

-- many of them trying to find their true colors in this new world

The good news is that by harnessing user contribution, we just have to sit back and enjoy the ride.

LEVY, PIERRE - Collective Intelligence: Mankind's Emerging World in Cyberspace. {Perseus Books Group}, 1999. ISBN 0738202614.

(translated from the French by Robert Bononno)



CoIn: shared or group intelligence

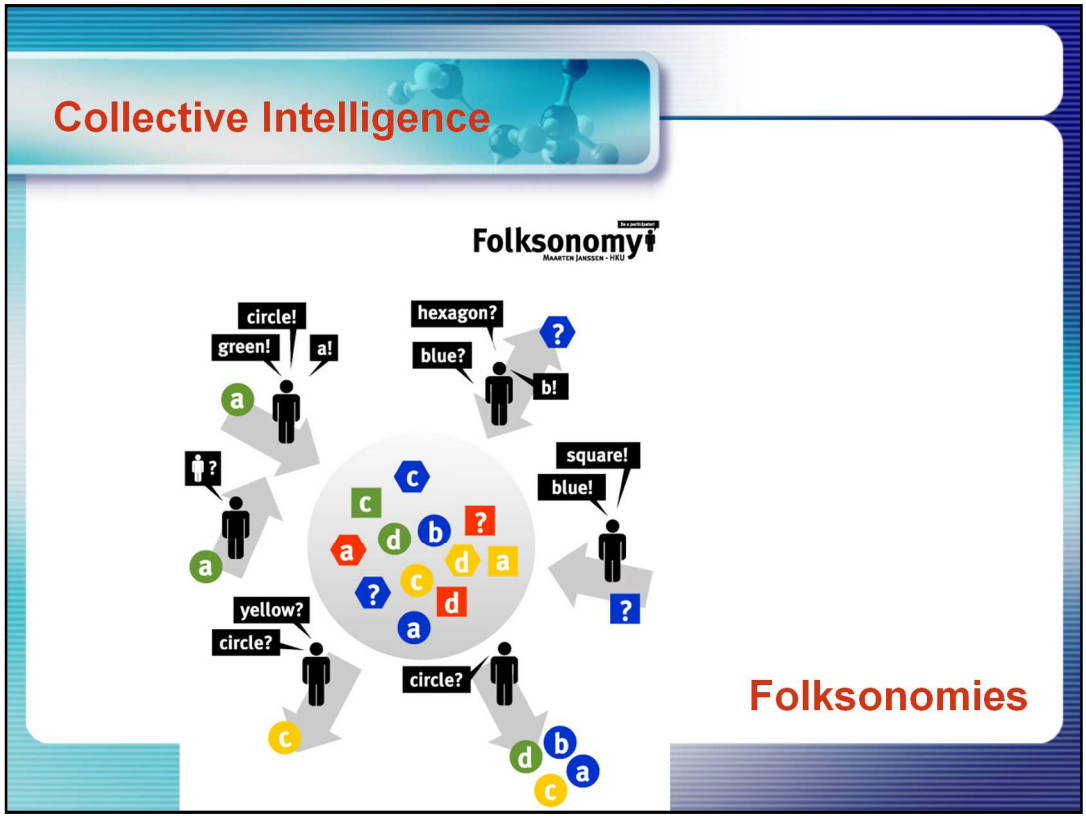
"It is a form of universally distributed intelligence, constantly enhanced, coordinated in real time, and resulting in the effective mobilization of skills..."

LEVY, PIERRE - Collective Intelligence: Mankind's Emerging World in Cyberspace. {Perseus Books Group}, 1999. ISBN 0738202614.

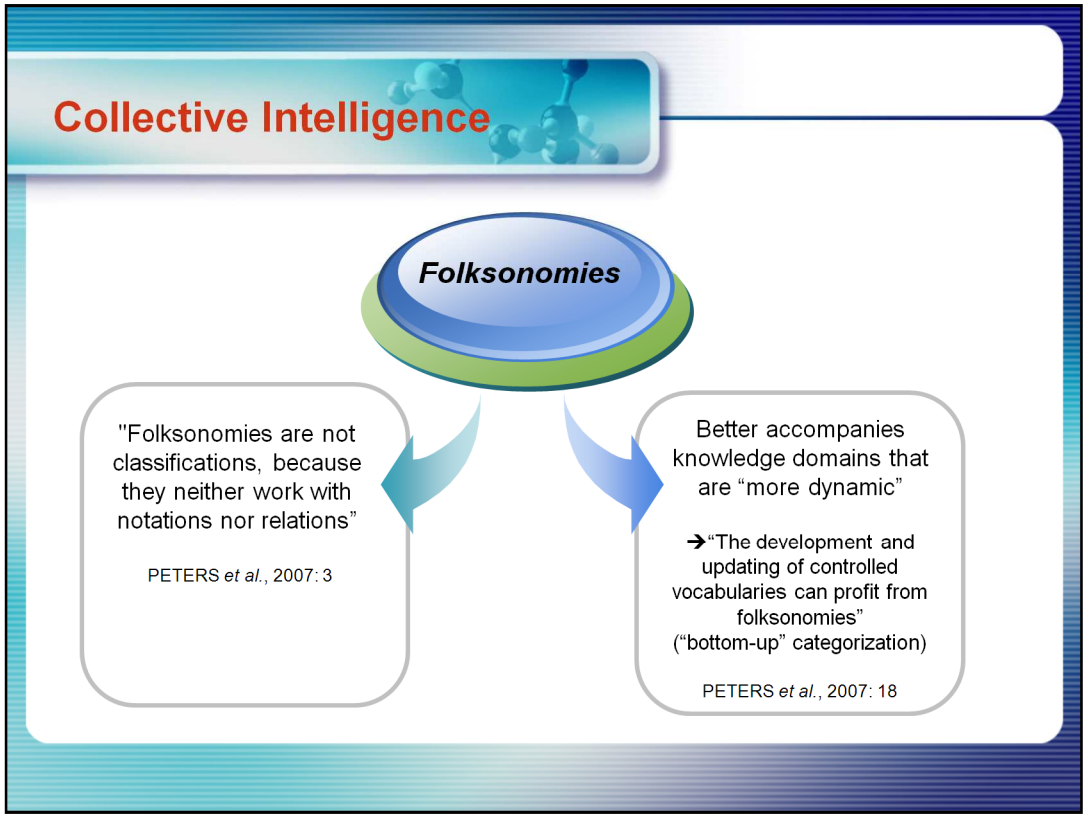
(translated from the French by Robert Bononno)

Collective Intelligence

Folksonomies



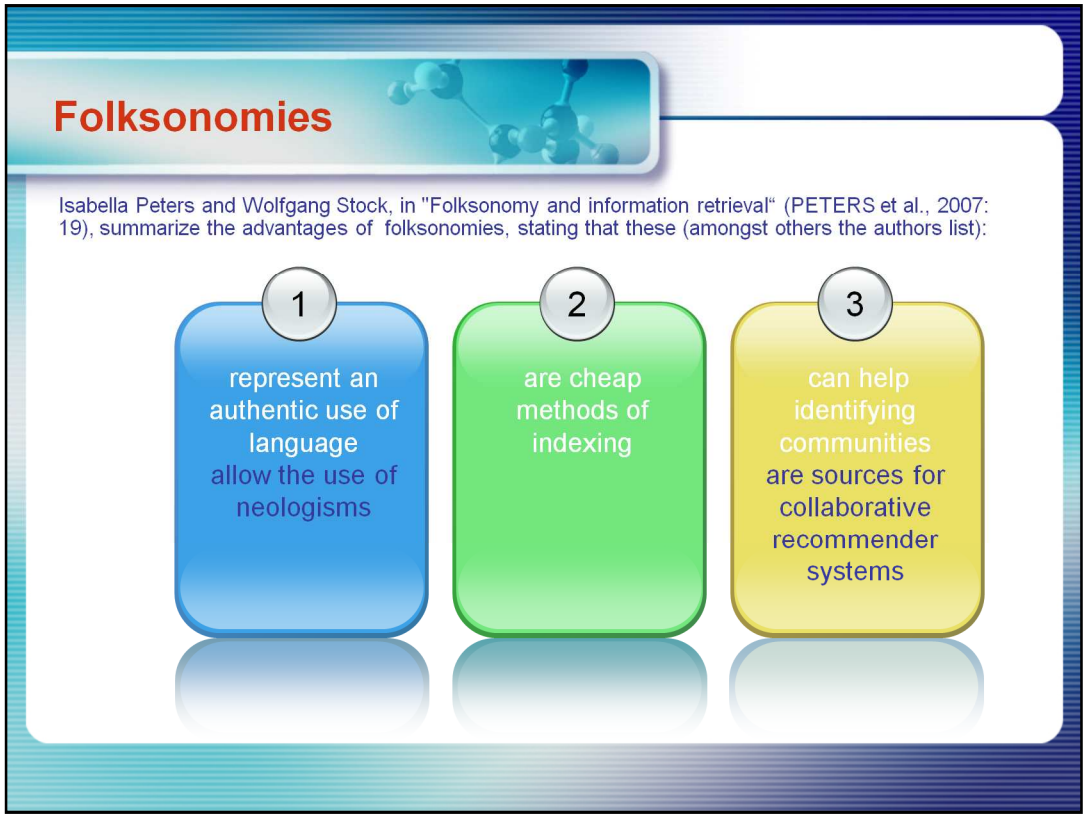
Author: Maarteen Janssen - HKU



PETERS, I.; STOCK, W. G. - Folksonomy and information retrieval. Proceedings of the ASIST Annual Meeting. ISSN 15508390 (ISSN); 0877155399 (ISBN); 9780877155393 (ISBN). Vol. 44 (2007).

Isabella Peters / Wolfgang G. Stock

Heinrich-Heine-University Düsseldorf



“Tagging shows a lot of benefits”

1.1

referring to the use of terms in natural language - something that can be very beneficial in natural language information retrieval, the current big trend (google like search)

1.2

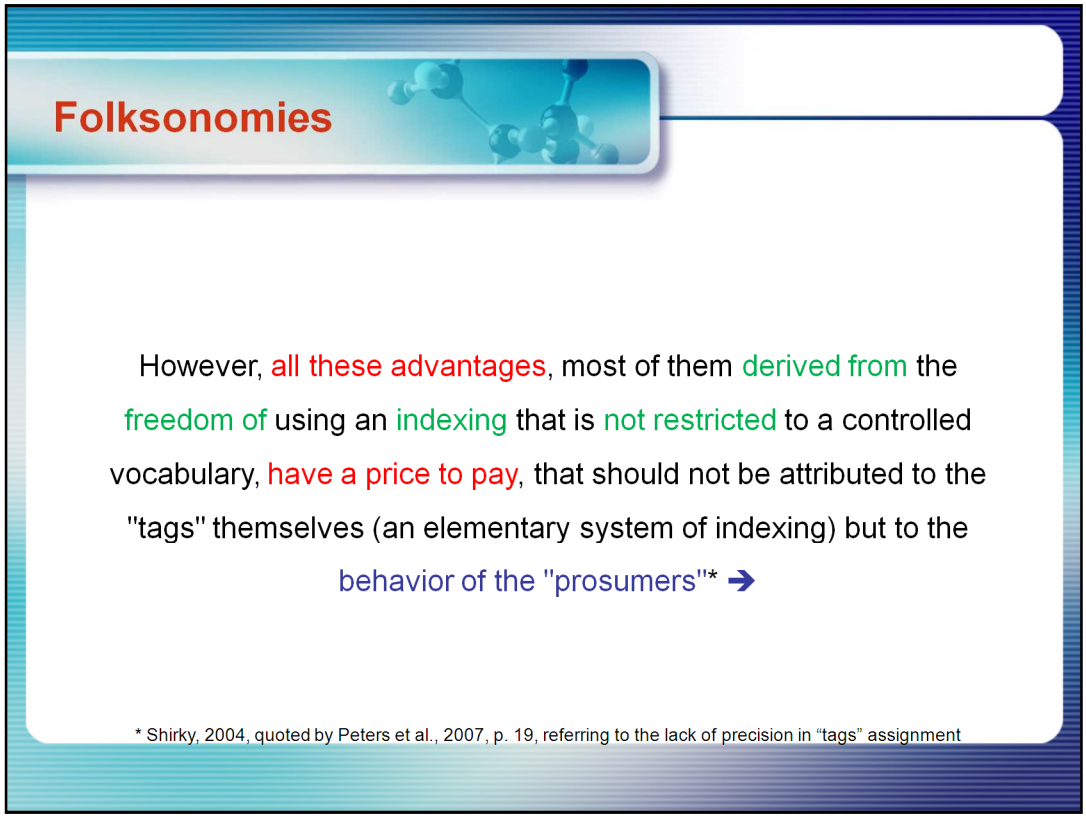
That is, new words or new meanings

2.

referring to the voluntary character in the assignment of "tags" by the "prosumers“

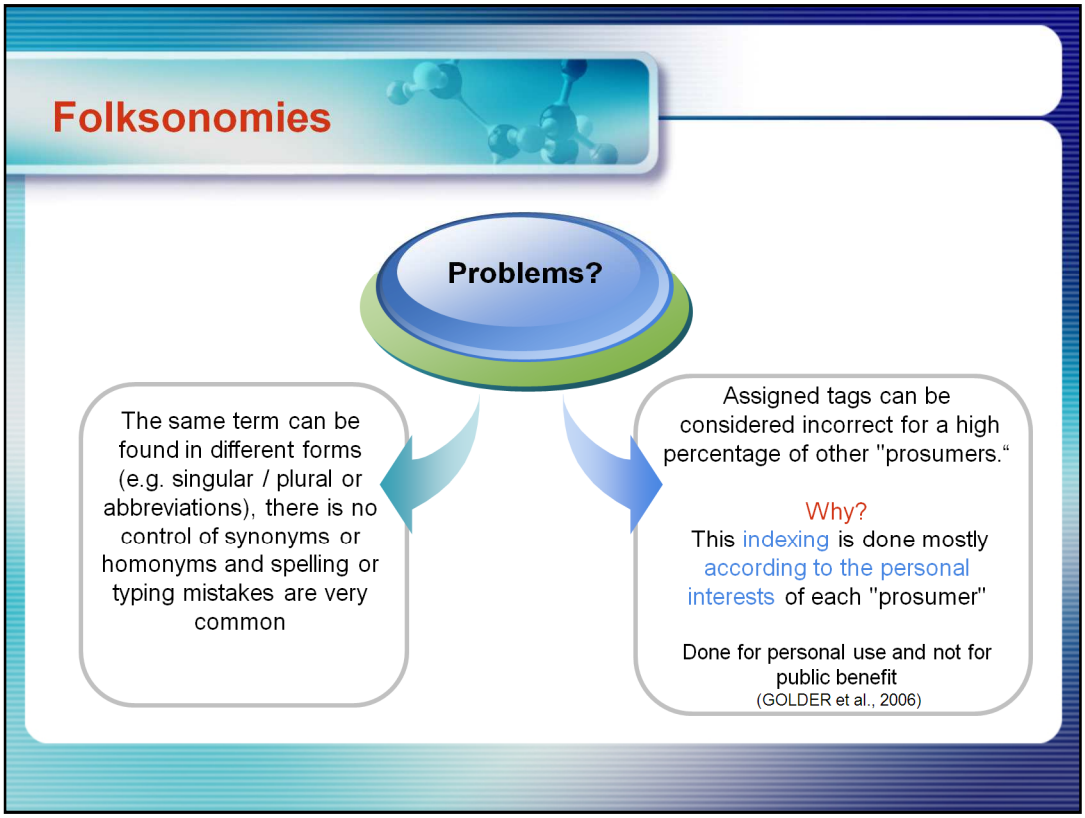
3.1

Better, of the elements that may belong to one of these virtual communities, when the system that store and allow consultation of "user < > tags attributed“ relation)



Prosumers: coined by Alvin Toffler ("The Third Wave", 1980), predicting that the role of producers and consumers would begin to blur and merge

Shirky, C. (2004, 25-08-2004). Folksonomy (Blog Many-to-Many). Retrieved 04/12/2008, from http://many.corante.com/archives/2004/08/25/folksonomy.php



1.

According to a study conducted in 2006 and presented in the article "Foksonomies: Tidying up tags?" published in the journal D-Lib Magazine (2006, vol. 12, paragraph 1),

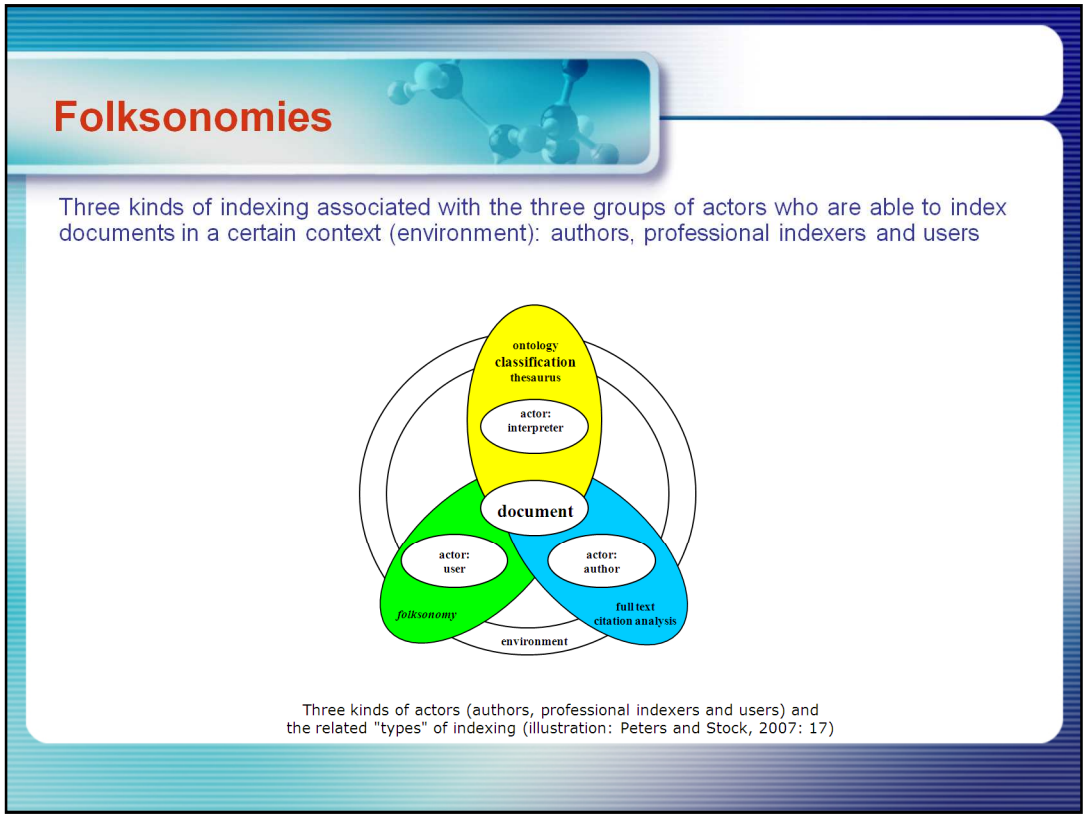
about 40% of tags present in Flickr (online photos management and sharing service) and 28% of the Del.icio.us ("Social Bookmarking")

"were either misspelt, from a language not available via the software used, encoded in a manner that was not understood by the dictionary software, or compound words consisting of more than two words or a mixture of languages".(Guy et al, 2006, cited by Peters et al., 2007, p. 19))

GUY, M.; TONKIN, E. - Folksonomies: Tidying up tags? D-Lib Magazine. ISSN 1082-9873. Vol. 12, n.º 1 (2006).

2.

GOLDER, SCOTT A.; HUBERMAN, BERNARDO A. - Usage patterns of collaborative tagging systems. Journal of Information Science. ISSN 01655515. Vol. 32, n.º 2 (2006), p. 11.



"Text-oriented methods make use of the author's language, e.g. in forms of indexing titles, abstracts or references (Garfield, 1979).

In contrast to text-orientated methods folksonomies do not only represent the producer's view, but the views of the consumers as well.

Ontologies and other tools of controlled vocabularies (like thesauri or classification systems) are in need of interpreters:

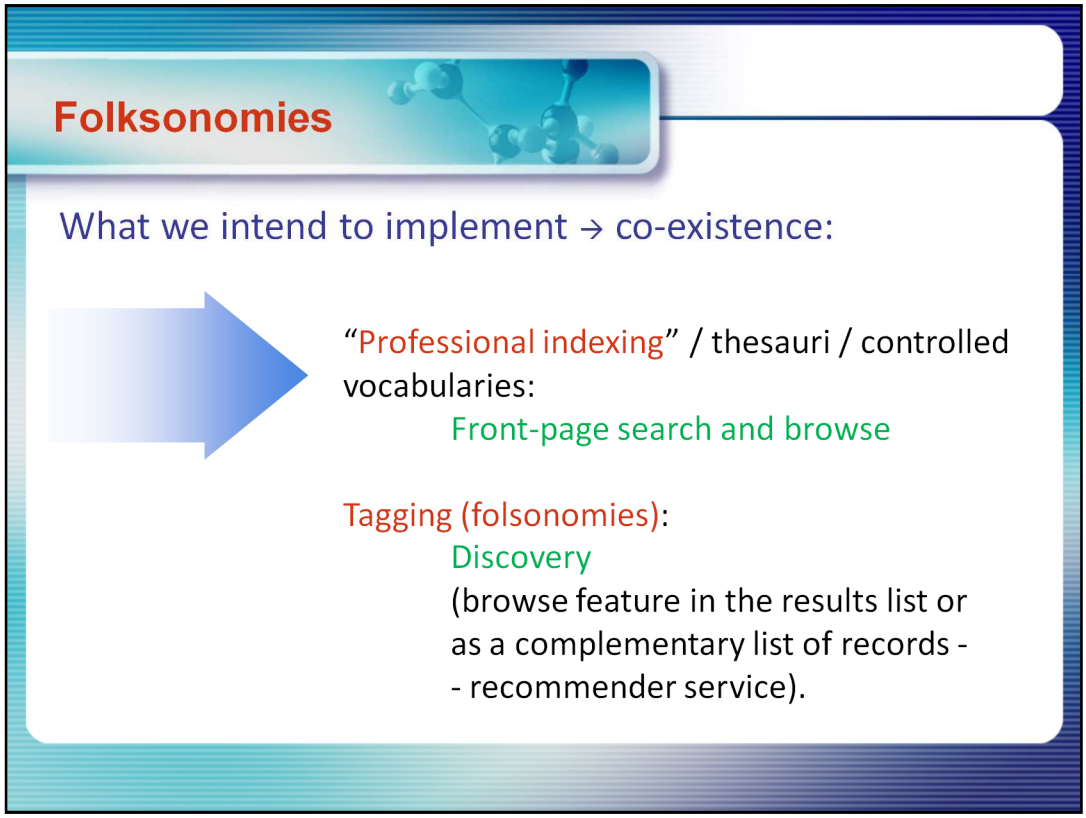
a) experts who create such vocabularies and
b) other experts who are able to use the controlled terms in order to index the documents.

Ontology-creating interpreters have to analyze „literature, needs, actors, tasks, domain, activities, etc." (Mai, 2006, p. 17) – undoubtedly a time-consuming

procedure. What is more, this system is very expensive. In comparison, folksonomies are cheap in practice because the indexing is done by

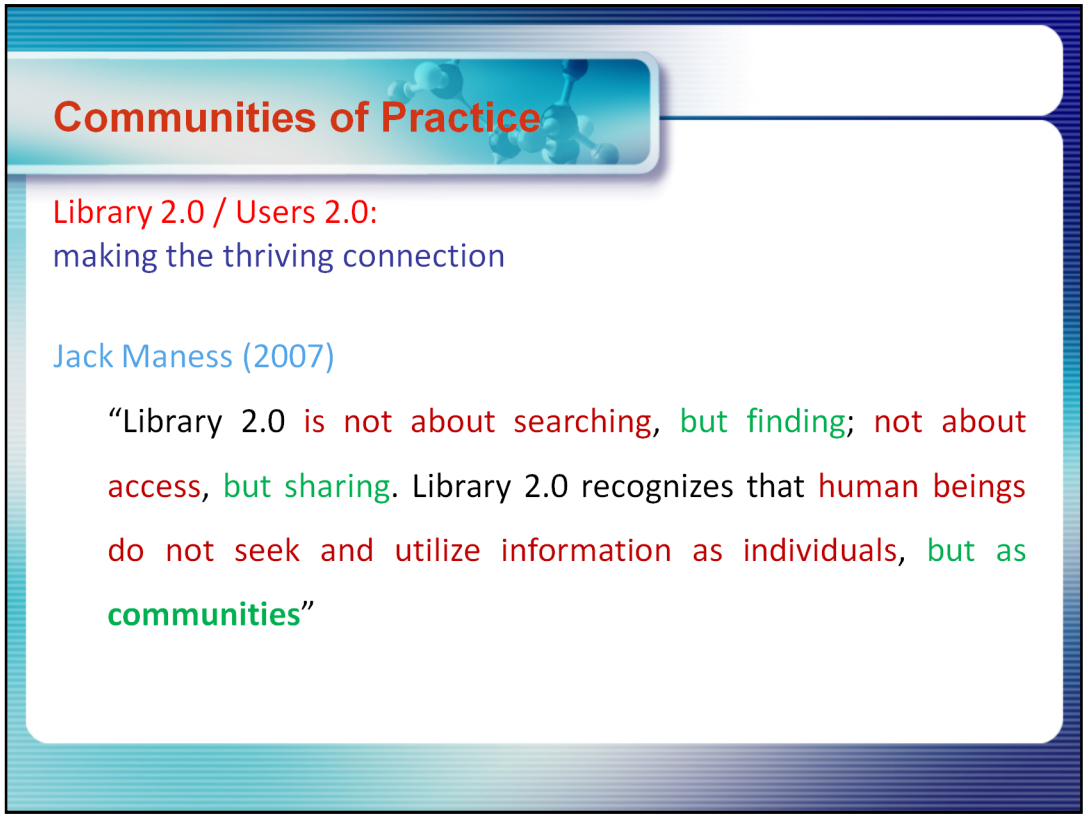
volunteers in a collaborative way."

PETERS, I.; STOCK, W. G. - Folksonomy and information retrieval. Proceedings of the ASIST Annual Meeting. ISSN 15508390 (ISSN); 0877155399 (ISBN); 9780877155393 (ISBN). Vol. 44 (2007)



Co-existence "professional indexing" / folsonomies: best of both worlds

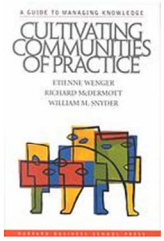
This way terms in tagging are set in context, which they lack by nature ("flat indexing")



MANESS, JACK M. - Library 2.0 Theory: Web 2.0 and Its Implications for Libraries. Webology. ISSN 1735-188X. Vol. 3, n.º 2 (2007).

Communities of Practice

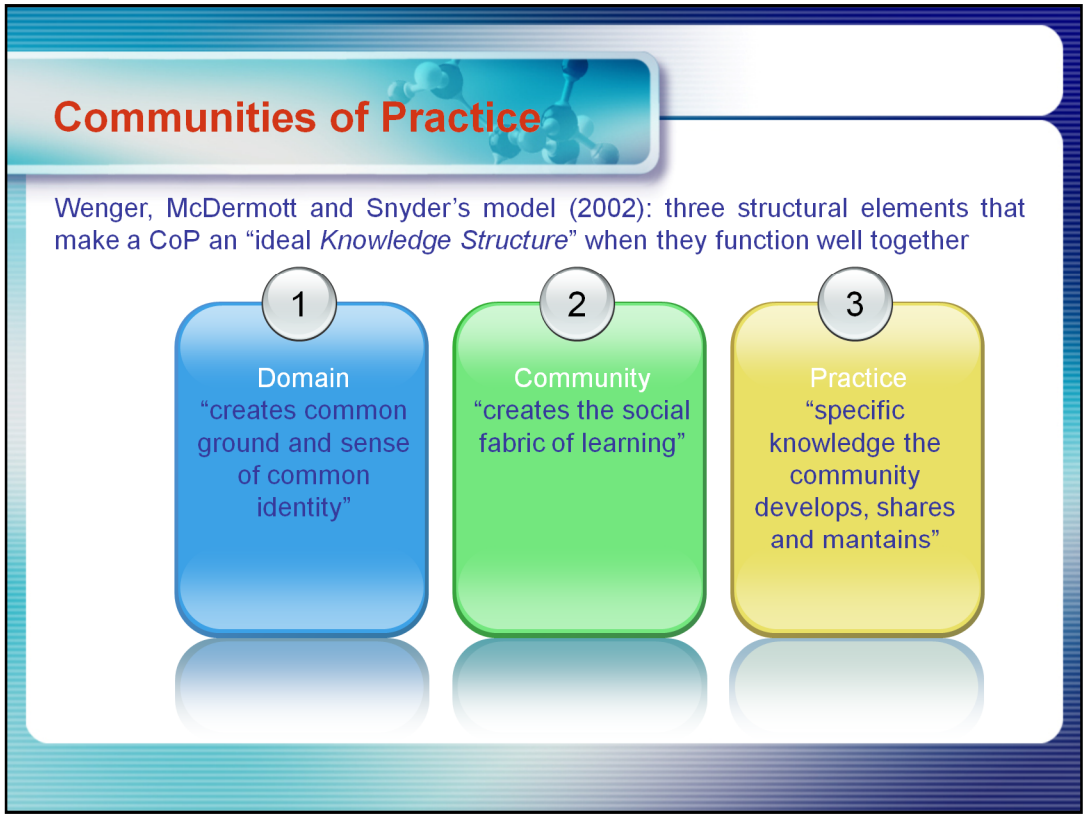
But which communities can be considered CoPs?



Etienne Wenger, Richard Arnold McDermott and William Snyder (2002)

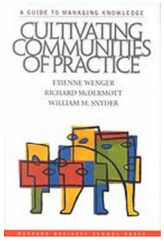
"Communities of practice are groups of people who share a concern, a set of problems, or a passion about a topic, and who deepen their knowledge and expertise in this area by interacting on a ongoing basis".

WENGER, ETIENNE; MCDERMOTT, RICHARD; SNYDER, WILLIAM - Cultivating communities of practice. Boston: Harvard Business School Press, 2002. ISBN 1-57851-330-8.



WENGER, ETIENNE; MCDERMOTT, RICHARD; SNYDER, WILLIAM - Cultivating communities of practice. Boston: Harvard Business School Press, 2002. ISBN 1-57851-330-8.

Communities of Practice



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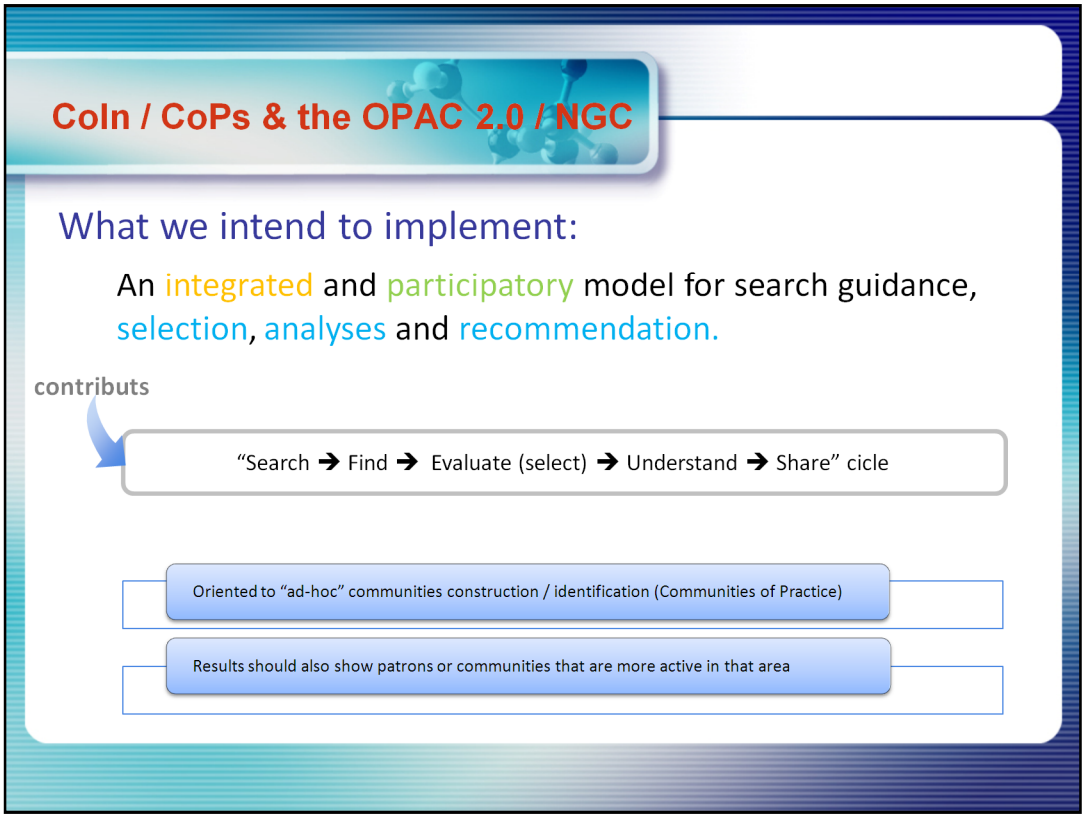
Domain | Community | Practice

"Practice" is also about "interacting on a ongoing basis"



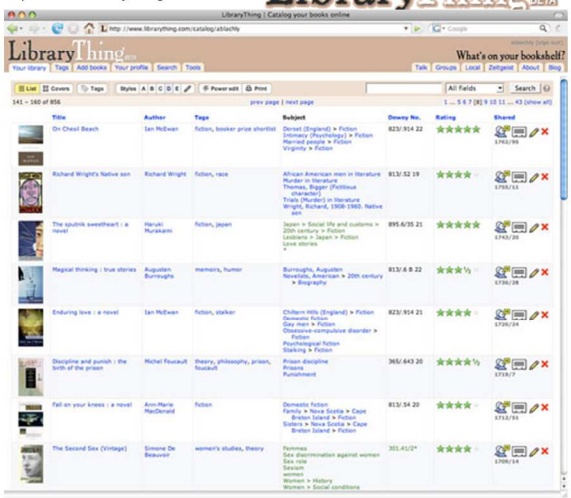
What we intend to implement:

A model for an innovative bibliographic information search system, where not only the document is the point of reference, but to a new extent, the user himself and all its surrounding (activities and information associated with his/her profile or community to which he/she belongs), assuming a crucial dimension of generating additional information by the users of the system (enhanced by computer agents aggregators of information), fostering social networks and communities of practice.

Namely to get it's contributes to the "Search ➔ Find ➔ Evaluate (select) ➔ Understand ➔ Share" cicle

Still a reference?

http://www.librarything.com



"**You can** search your books, sort your books, edit book information, and **apply "tags"**. You can **rate** your books and **write reviews**."

Still a reference?

"Perhaps my favorite thing about LibraryThing is that you can track down someone who shares your tastes and request a direct recommendation or ask them if a book you're thinking of buying is any good."

Cade Metz, *PC Magazine* "LibraryThing" (21st July 2006) » Video Review

http://www.librarything.com

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http://www.librarything.com

Final Remark

OPAC 2.0 / NGC

should also be
very much about…

..

Mobility
Ubiquitous computing

Keep in touch…

http://twitter.com/filipeb

to: **fil@ua.pt**

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5. wheel
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21L. 504x_DoingItWrong_Auto_3
http://cache.gawker.com/assets/images/12/2009/02/504x_DoingItWrong_Auto_3.jpg

What's happening in the International Group of Ex Libris Users meeting in...
2009IGeLU September 6–9, HELSINKI
Kiitos!
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Documentation Services
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http://www.doc.ua.pt
Filipe MS Bento 9 September 2009