

a biblioteca de cada um

Abel L. Packer

Diretor BIREME/OPAS/OMS

Centro Latino-americano e do Caribe de Informação em Ciências da Saúde

Organização Pan-Americana da Saúde | Organização Mundial da Saúde

Seminário Internacional de Bibliotecas Digitais Brasil, São Paulo,

18-20 setembro 2007

1. precisamos revistar o conceito da Biblioteca
2. um pouco mais do mesmo sobre as bibliotecas digitais
3. a biblioteca como instância social e extensão da nossa memória
4. o web e a comunicação científica.
E o “web2.0” tem vez na comunicação científica
5. acesso aberto – um movimento jovem
6. a biblioteca de cada um: desafios

*We shall not cease from exploration
And the end of all our exploring
Will be to arrive where we started
And know the place for the first time*

T. S. Elliot, "Little Gidding"

Voltaremos a operar
o conceito de
biblioteca sem
adjetivos ou pelo
menos sem o
adjetivo digital ?



WIKIPEDIA
The Free Encyclopedia

navigation

- [Main page](#)
- [Contents](#)
- [Featured content](#)
- [Current events](#)
- [Random article](#)

interaction

- [About Wikipedia](#)
- [Community portal](#)
- [Recent changes](#)
- [Contact Wikipedia](#)
- [Donate to Wikipedia](#)
- [Help](#)

search

toolbox

- [What links here](#)
- [Related changes](#)
- [Upload file](#)

Make a donation to Wikipedia and give the gift of knowledge!

[article](#)[discussion](#)[edit this page](#)[history](#)

- Ten thir

Library

From Wikipedia, the free encyclopedia

For other uses, see [Library \(disambiguation\)](#).

A **library** is a collection of information, sources, resources and services, organized for use, and maintained by a public body, an [institution](#), or a private individual. In the more traditional sense, it means a collection of [books](#). This collection and services are used by people who choose not to – or cannot afford to — purchase an extensive collection themselves, who need material no individual can reasonably be expected to have, or who require professional assistance with their research.

However, with the collection of [media](#) other than books for [storing information](#), many libraries are now also repositories and access points for [maps](#), [prints](#) or other [documents](#) and [artworks](#) on various storage media such as [microfilm](#), [microfiche](#), [audio tapes](#), [CDs](#), [LPs](#), [cassettes](#), [video tapes](#) and [DVDs](#), and provide public facilities to access [CD-ROM](#) and subscription databases and the [Internet](#). Thus, modern libraries are increasingly being redefined as places to get unrestricted access to [information](#) in many formats and from many sources. In addition to providing materials, they also provide the services of specialists who are experts in matters related to finding and organizing information and interpreting information needs, called [librarians](#).

More recently, libraries are understood as extending beyond the physical walls of a building, by including material accessible by electronic means, and by providing the assistance of [librarians](#) in navigating and analyzing tremendous amounts of knowledge with a variety of digital tools.

The term "library" has itself acquired a secondary meaning: "a collection of useful material for common use," and in this sense is used in fields such as [computer science](#), [mathematics](#) and [statistics](#), [electronics](#) and [biology](#).

Contents [\[hide\]](#)



Make a donation to Wikipedia and give the gift of knowledge!

[article](#)

[discussion](#)

[edit this page](#)

[history](#)

- Ten thing

Library

From Wikipedia, the free encyclopedia

A **library** is a collection of information, sources, resources and services, organized for use, and maintained by a public body, an institution, or a private individual. In the more traditional sense, it means a collection of books. This collection and services are used by people who choose not to – or cannot afford to — purchase an extensive collection themselves, who need material no individual can reasonably be expected to have, or who require professional assistance with their research.

However, with the collection of media other than books for storing information, many libraries are now also repositories and access points for maps, prints or other documents and artworks on various storage media such as microfilm, microfiche, audio tapes, CDs, LPs, cassettes, video tapes and DVDs, and provide public facilities to access CD-ROM and subscription databases and the Internet. Thus, modern libraries are increasingly being redefined as places to get unrestricted access to information in many formats and from many sources. In addition to providing materials, they also provide the services of specialists who are experts in matters related to finding and organizing information and interpreting information needs, called librarians.

More recently, libraries are understood as extending beyond the physical walls of a building, by including material accessible by electronic means, and by providing the assistance of librarians in navigating and analyzing tremendous amounts of knowledge with a variety of digital tools.

The term "library" has itself acquired a secondary meaning: "a collection of useful material for

Biblioteca (do grego βιβλιοθήκη, composto de βιβλίον, "livro", eθήκη "depósito"), na definição tradicional do termo, é um espaço físico em que se guardam livros. De maneira mais abrangente, biblioteca é todo espaço (concreto, virtual ou híbrido) destinado a uma coleção de informações de quaisquer tipos, sejam escritas em folhas de papel (monografias, enciclopédias, dicionários, manuais, etc) ou ainda digitalizadas e armazenadas em outros tipos de materiais, tais como CD, fitas, VHS, DVD e bancos de dados. Revistas e jornais também são colecionados e armazenados especialmente em uma hemeroteca.

Biblioteca digital

Es una **biblioteca** en que una proporción significativa de los recursos de información se encuentran disponibles en el formato digital (pdf, doc, etc. o microforma), accesible por medio de las computadoras. El volumen digital se sostiene localmente; si es posible acceder a la biblioteca de forma remota vía internet, se trata de una **biblioteca virtual** . En estas bibliotecas, el proceso de digitalización empezó con el catálogo, continuo con los índices de la revista y los servicios de resumen, y finalmente la publicación de los ebook o libros electrónicos. Algunas de las bibliotecas digitales en español más grandes y más exitosas son **Cervantes Virtual**, la Biblioteca Virtual de la UNMSM, la biblioteca digital de la UCM. Una biblioteca digital es un sistema de tratamiento técnico, acceso y transferencia de información digital, estructurado alrededor del ciclo de vida de una colección de documentos digitales, sobre los cuales se ofrecen servicios interactivos de valor añadido para el usuario final. En Europa existe un proyecto común para la colaboración entre bibliotecas digitales. Central en este encontramos el proyecto DELOS (Network of excellence on Digital Libraries), fundado en parte por la Comisión Europea. Comenzó el 1 de enero del 2004, y tendrá una duración de 48 meses, en la que participan actualmente 56 miembros.

conceitos ? Denominações ?

biblioteca

eletrônica

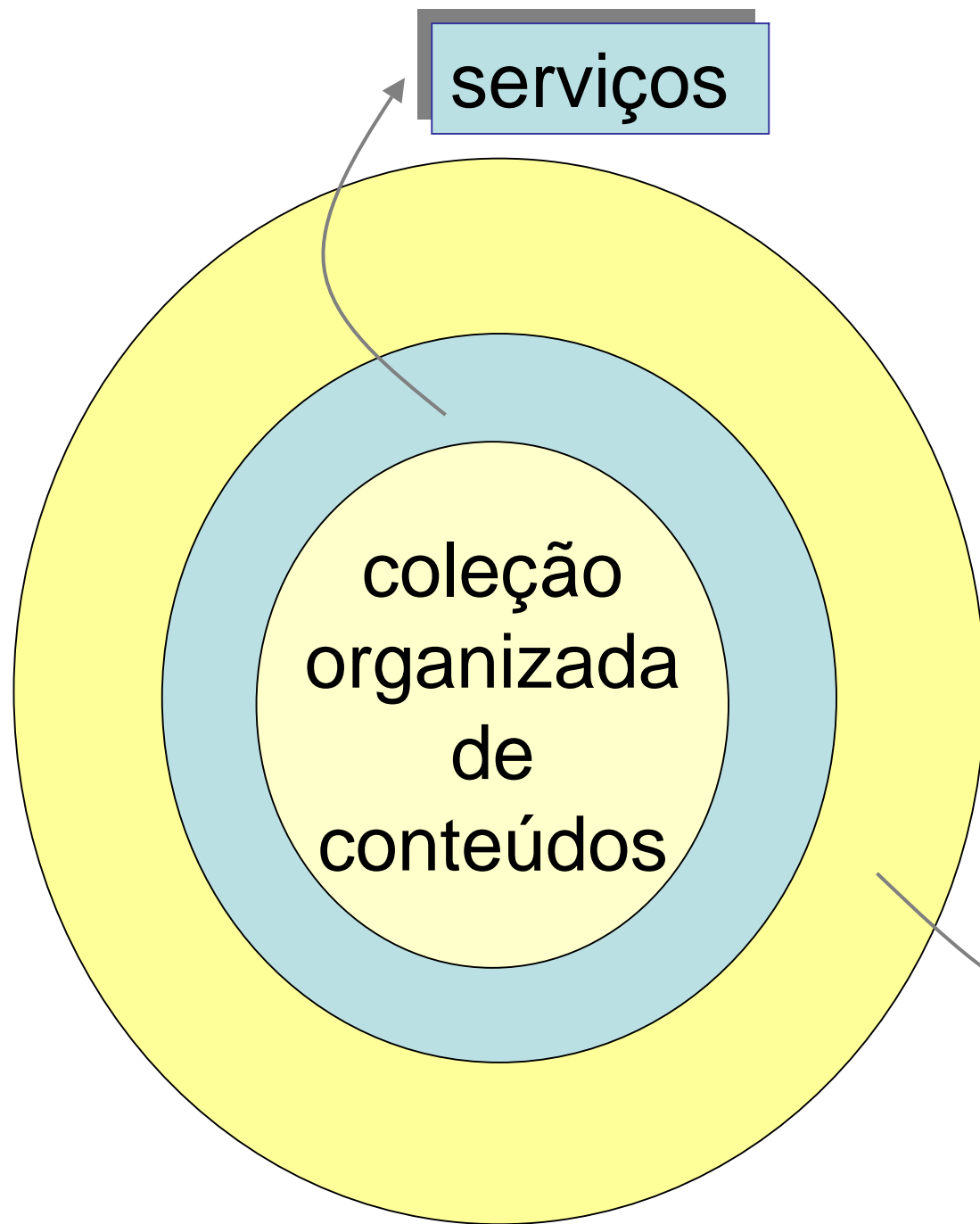
digital

polimídia

sem paredes,

do futuro,

virtual, etc.



unificando o
conceito de
Biblioteca

Internet – Web – world wide web

a biblioteca em rede

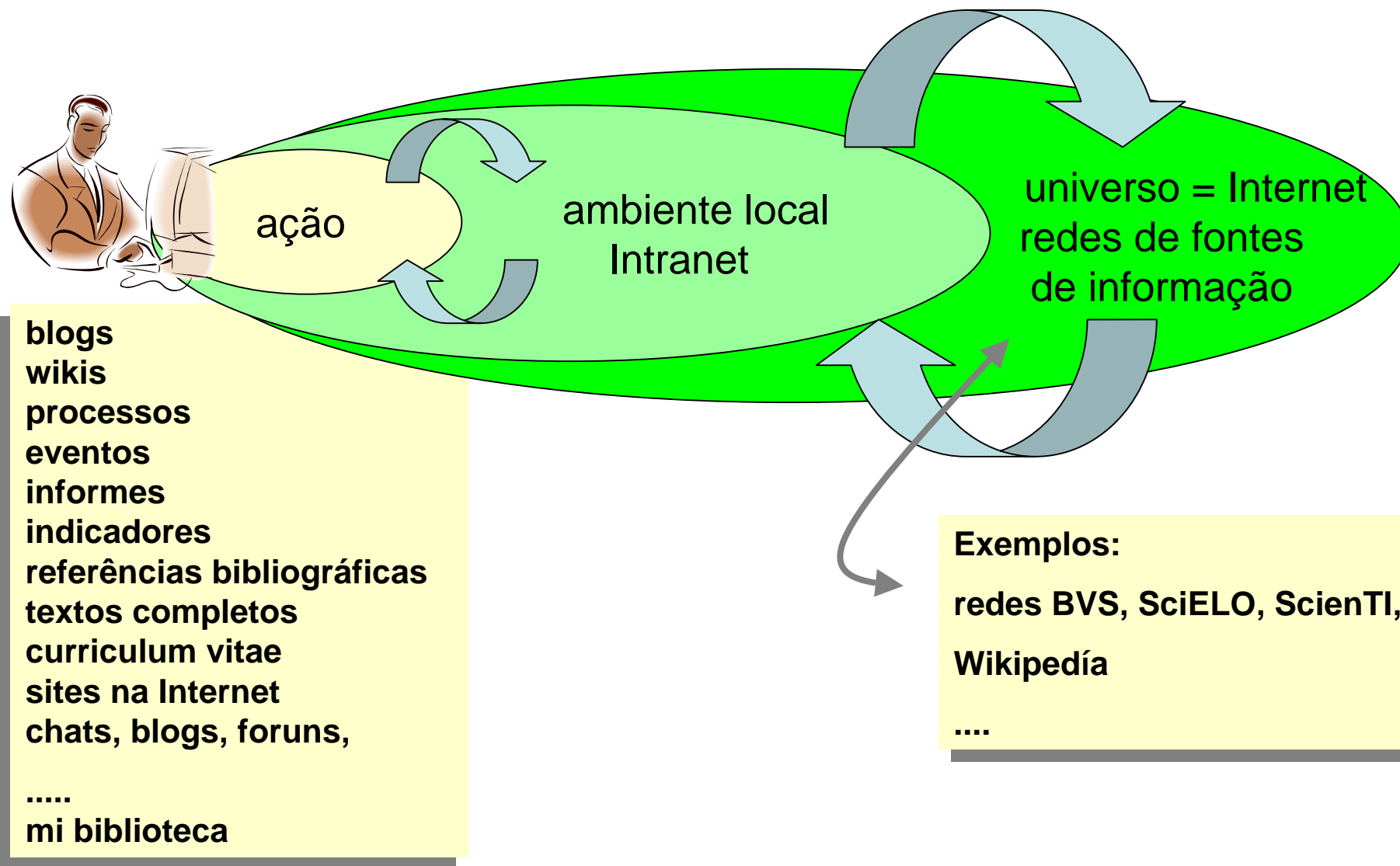
a rede como biblioteca

a web – rede – como o lugar da biblioteca universal



o lugar – espaço – de todas as bibliotecas
- da biblioteca de cada um

Maximizar o trabalho em rede – agregar informação







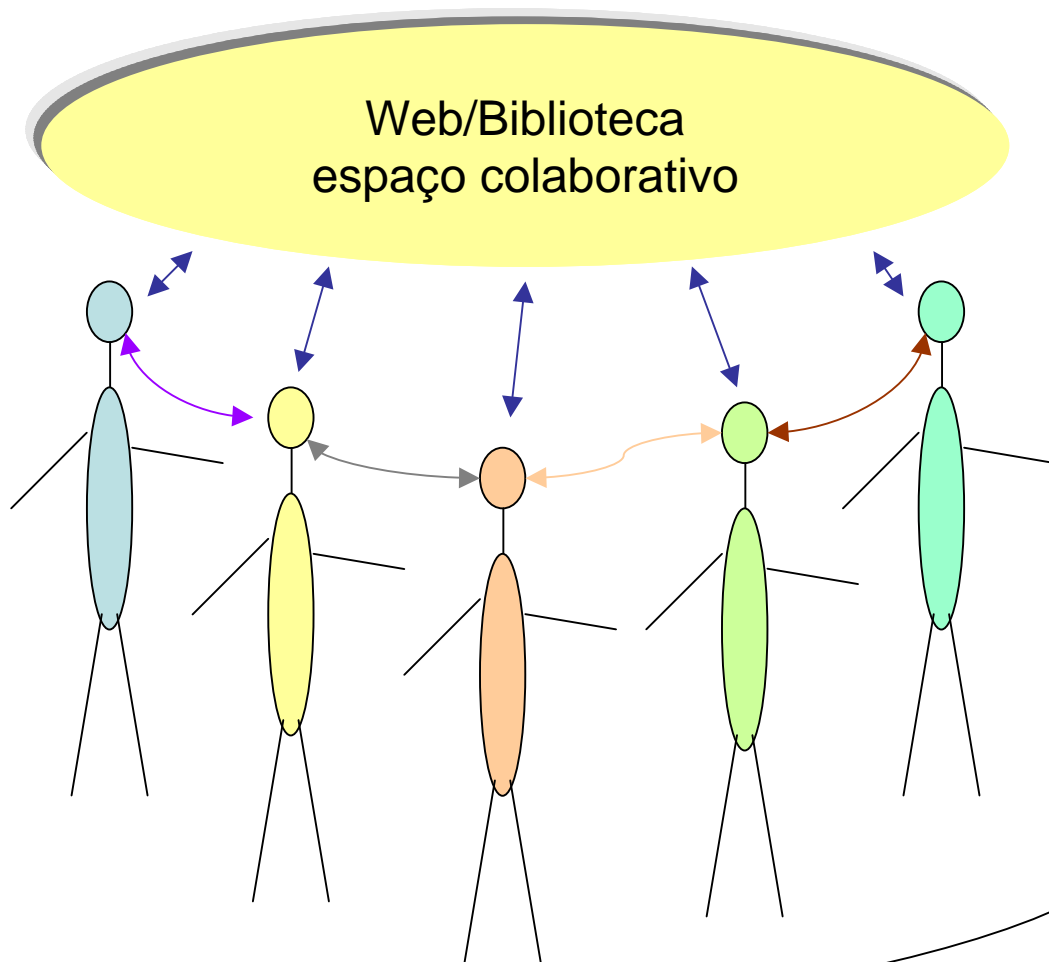
A sociedade da informação – a sociedade em rede

Centralidade nas tecnologias de informação e comunicação

“ O que caracteriza a atual revolução tecnológica não é a centralidade de conhecimentos e informação, mas a aplicação destes conhecimentos e desta informação para a geração de conhecimentos e dispositivos de processamento/comunicação de informação, em um ciclo de retroalimentação acumulativo entre a inovação e o seu uso“

“Por primera na historia, a mente humana é uma força direta de produção, não apenas um elemento decisivo do processo produtivo.”

Manuel Castells - La sociedad en red



duas mentes

“We are natural
born cyborgs”

Andy Clark

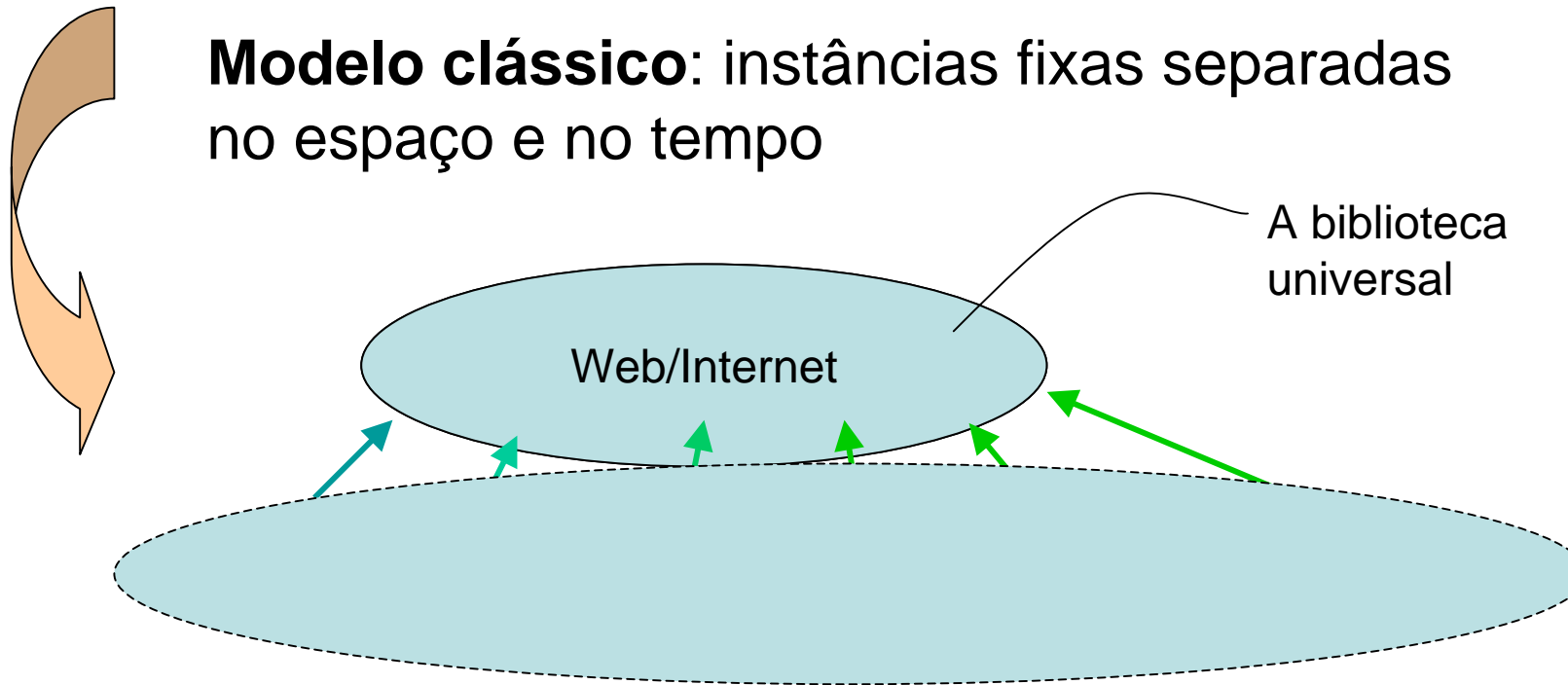
“We are now a
species that
integrates
knowledge and
tools”

Mason & Apte

estrutura da comunicação científica



Modelo clássico: instâncias fixas separadas no espaço e no tempo



Modelo Web/Internet: instâncias convergem para o mesmo espaço [virtual] com alto grau de simultaneidade e interoperabilidade [links].

Portal Brasileiro da Informação Científica

www.periodicos.capes.gov.br
Versão em Espanhol



11.419 Periódicos com textos completos

[Lista completa](#)

Terça-feira, 18 de setembro de 2007

Localize rapidamente uma publicação

Digite uma palavra do título do periódico ou base de dados

BUSCAR

[Para acessar apenas publicações nacionais clique aqui](#)

3 4 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

PÁGINA INICIAL

TEXTOS COMPLETOS

RESUMOS

PATENTES, ESTATÍSTICAS, LIVROS E OUTRAS FONTES

O que é?

Como Usar?

Coleções

FAQ - Respostas para suas perguntas

Normas

Estatísticas de uso

Instituições

QUALIS Periódicos Nacionais no Portal

Informações para Bibliotecários

Fale conosco

7,4 milhões de artigos baixados no período de janeiro a junho de 2007!

DESTAQUES



- Portaria que aprova a nova redação do Termo de Compromisso do Portal de Periódicos
- Capes assina publicações da Royal Society of Chemistry para o Portal
- Base de dados multidisciplinar Scopus disponível no Portal
- Banco de Teses da Capes atualizado com mais de 81 mil teses e dissertações defendidas em 2005 e 2006
- Capes restabelece acesso ao IEEE
- Publicações da editora BMJ e ASCO agora disponíveis via HighWire
- Treinamento para o Portal de Periódicos da Capes - Inscrições
- Google Acadêmico inclui links para a coleção do Portal
- Novas bases disponíveis no Portal
- Bases de dados com acesso temporário gratuito no Portal
- Teses e Dissertações no Portal
- Associações, sociedades, universidades e instituições científicas e profissionais: Portal - Maio 2007
- Títulos Novos



ISI Web of
KNOWLEDGE.



Compendex on
Engineering Vill



SciFinder





Scientific Electronic Library Online

SciELO Network

[About SciELO](#)

[Access via OAI and RSS](#)

Collections

 [Argentina](#)

 [Brazil](#)

 [Chile](#)


 [Colombia](#)


 [Cuba](#)

 [Portugal](#)

 [Spain](#)

 [Venezuela](#)

 [Public Health](#)

 [Social Sciences](#)


in development

 [Costa Rica](#)

 [Mexico](#)

 [Peru](#)

 [Portugal](#)

 [Uruguay](#)

Links

[Biomed Central](#)

[DOAJ](#)

Search article

method Entry one or more words where

Indexes (Regional): [country](#), [author](#), [keyword](#), [title](#), [organization](#), [publication year](#), [document type](#), [original language](#)

Browse journals

Search by journals

By alphabetic list - all

A B C D E F G H I J
K L M N O P Q R S T
U V Z

By subject - all

[Agricultural Sciences](#)

[Applied Social Sciences](#)

[Architecture](#)

[Biological Sciences](#)

[Chemistry](#)

[Earth Sciences](#)

[Engineering](#)

SciELO in numbers

[Site usage](#)

[Citations](#)

[Co-authors](#)

479 Journals

9,510 Issues

146,964 Articles

2,856,536 Citations

New

22 Issues

12 Journals

Architecture

1 Issue

Agricultural Sciences

Services on demand

Login

Password

[Send me a new password](#)

[Register for personalized services](#)

News

[Celebration of SciELO 10 years](#)

[Latin American journals increase presence in Web of Science database](#)

[Brazilian Journal of Medical and Biological Research celebrates 25 years in 2007](#)

[SciELO Publication System is under final implementation process](#)

[Interface Stanalyst for SciELO is under development](#)



Scientific Electronic Library Online

[home](#) > Journals by subject

 **Journals by subject - Health Sciences**

Health Sciences 185 journal(s)

[ACIMED](#) [Cuba]

[Acta bioethica](#) [Chile]

[Acta Bioquímica Clínica Latinoamericana](#) [Argentina]

[Acta Cirurgica Brasileira](#) [Brasil]

[Acta Medica Colombiana](#) [Colombia]

[Acta Odontológica Venezolana](#) [Venezuela]

[Acta Ortopédica Brasileira](#) [Brasil]

[Acta Paulista de Enfermagem](#) [Brasil]

[Actas Urológicas Españolas](#) [Espanha]

[Anais Brasileiros de Dermatologia](#) [Brasil]

[Anais da Academia Brasileira de Ciências](#) [Brasil]

[Anales del Sistema Sanitario de Navarra](#) [Espanha]

[Anales de Medicina Interna](#) [Espanha]

[Anales Venezolanos de Nutrición](#) [Venezuela]

 **Preview by:**

> alphabetic sort

A B C E G H I J
K M N O P R S T
V

> collection

EDITORIAL BOARD

- [Honorary editor](#)
- [Editors](#)
- [Associated editors](#)
- [Editorial Advisory Board \(2004-2006\)](#)
- [Executive editor](#)
- [Editorial Assistant](#)
- [Technical and administrative support](#)
- [Secretary](#)

Honorary Editor

- Oswaldo Paulo Forattini

Editors

- Carlos Augusto Monteiro
- Rita de Cássia Barradas Barata

Associated editors

- Aluísio Jardim Dornellas de Barros
- Egberto Ribeiro Turato



issues | articles search

[all](#) [previous](#) [current](#) [next](#) [author](#) [subject](#) [form](#) [home](#) [alpha](#)

Revista de Saúde Pública

Print ISSN 0034-8910

Available issues

Year	Vol.	Issue							
2007	41	1	2	3	4	ahead of print			
2006	40	1	2	3	special	4	5	6	suppl.
2005	39	1	2	3	4	5	6		
2004	38	1	2	3	4	5	6	suppl.	
2003	37	1	2	3	4	5	6		
2002	36	1	2	3	4	4 suppl.	5	6	
2001	35	1	2	3	4	5	6		
2000	34	1	2	3	4	5	6	6 suppl.	
1999	33	1	2	3	4	5	6		
1998	32	1	2	3	4	5	6		



issues | articles search
[all](#) [previous](#) [current](#) [next](#) [author](#) [subject](#) [form](#) [home](#) [alpha](#) 

Revista de Saúde Pública

Print ISSN 0034-8910

Table of contents

Rev. Saúde Pública São Paulo ahead of print

Vulnerability and bare life: bioethics and biopolitics today

Arán, Márcia; Peixoto Júnior, Carlos Augusto

- [abstract in english | portuguese](#)
- [text in portuguese](#)
- [pdf in portuguese](#)

Brazilian adaptation of the Assessment of Adherence to Antiretroviral Therapy Questionnaire

Remor, Eduardo; Milner-Moskovics, Jenny; Preussler, Gisele

- [abstract in english | portuguese](#)
- [text in portuguese](#)
- [pdf in portuguese](#)

© 2007 *Faculdade de Saúde Pública da Universidade de São Paulo*





Avenida Dr. Arnaldo, 715
01246-904 São Paulo SP Brazil
Tel./Fax: +55 11 3068-0539




revsp@org.usp.br

The following term was not found: vulnerability.
See [Details](#).

Did you mean: [aran vulnerability](#) (3 items)

- 1:** [Andreu N. Aran JM. Fillat C.](#) [Related Articles](#), [Links](#)
 -  Novel membrane cell projection defects in Wiskott-Aldrich syndrome B cells.
Int J Mol Med. 2007 Oct;20(4):445-50.
PMID: 17786274 [PubMed - in process]
- 2:** [Aran M. Peixoto Junior CA.](#) [Related Articles](#), [Links](#)
 -  [Vulnerability and bare life: bioethics and biopolitics today.]
Rev Saude Publica. 2007 Jul 4; [Epub ahead of print] Portuguese.
PMID: 17713709 [PubMed - as supplied by publisher]
- 3:** [Yener G. Aran S. Bahceci M. Ozdemir K. Gultekin F. Lowe W.](#) [Related Articles](#), [Links](#)
 -  Quinapril for treatment of hypertension in Turkey : dose titration and diuretic combination treatment strategies.
Clin Drug Investig. 2007;27(9):613-22.
PMID: 17705570 [PubMed - in process]
- 4:** [Cam C. Sakalli M. Ay P. Aran T. Cam M. Karateke A.](#) [Related Articles](#), [Links](#)
 -  Validation of the prolapse quality of life questionnaire (P-QOL) in a Turkish population.

About Entrez
Text Version


Entrez PubMed
Overview
Help | FAQ
Tutorials
New/Noteworthy 
E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation
Matcher
Batch Citation
Matcher
Clinical Queries
Special Queries
LinkOut
My NCBI

Related Resources
Order Documents
NLM Mobile
NLM Catalog
NLM Gateway

Search PubMed for

Display AbstractPlus Show 20 Sort By Send to

All: 1 Review: 0 

1: [Rev Saude Publica](#). 2007 Jul 4; [Epub ahead of print] free full text available at [SciELO.org](#) [Links](#)
ENGLISH / PORTUGUESE

[Vulnerability and bare life: bioethics and biopolitics today.]

[Article in Portuguese]

[Arán M, Peixoto Júnior CA.](#)

Instituto de Medicina Social, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, RJ, Brasil.

The study had the objective of analyzing the notion of vulnerability that is used by bioethics to debate research involving human beings today, from reflections on biopolitics in contemporary culture. For this, the starting point was Giorgio Agamben's reading of Foucault's model of power (Sovereignty and Biopolitics), with the aim of subsequently analyzing the notion of bare life: "life without any value". If the devices of power in modern democracies conjoin biopolitical strategies with the emergence of the strength of sovereign power that transforms life into bare life, in fact bioethics must be an instrument for protecting people who have become vulnerable. Nevertheless, beyond the territory of the rule of law, bioethics must also penetrate the undifferentiated zones where sovereignty and techniques become mixed, disrespecting the frontiers of biopolitics and questioning the condition of vulnerability itself.

Related Links

- ▶ From biopolitics to bioethics: church, state, medicine and assisted [Sociol Health Iln. 2006]
 - ▶ Vulnerability: what kind of principle is it? [Med Health Care Philos. 2004]
 - ▶ [Bioethics from a social perspective: European Biopol [Law Hum Genome Rev. 2006]
 - ▶ "Bioethics in action" and human population genetics research. [Cult Med Psychiatry. 2005]
 - ▶ Respecting, protecting, persons, humans, and conceptual muddles ii [J Med Philos. 2000]
- [See all Related Articles...](#)

Revista de Saúde Pública

Print ISSN 0034-8910

Rev. Saúde Pública, 2007 ahead of print

Vulnerabilidade e vida nua: bioética e biopolítica na atualidade












Vulnerability and bare life: bioethics and biopolitics today

Márcia Arán^I; Carlos Augusto Peixoto Júnior^{II}

^IInstituto de Medicina Social. Universidade do Estado do Rio de Janeiro. Rio de Janeiro, RJ, Brasil

^{II}Programa de Pós-graduação em Psicologia Clínica. Pontifícia Universidade Católica do Rio de Janeiro. Rio de Janeiro, RJ, Brasil

Services

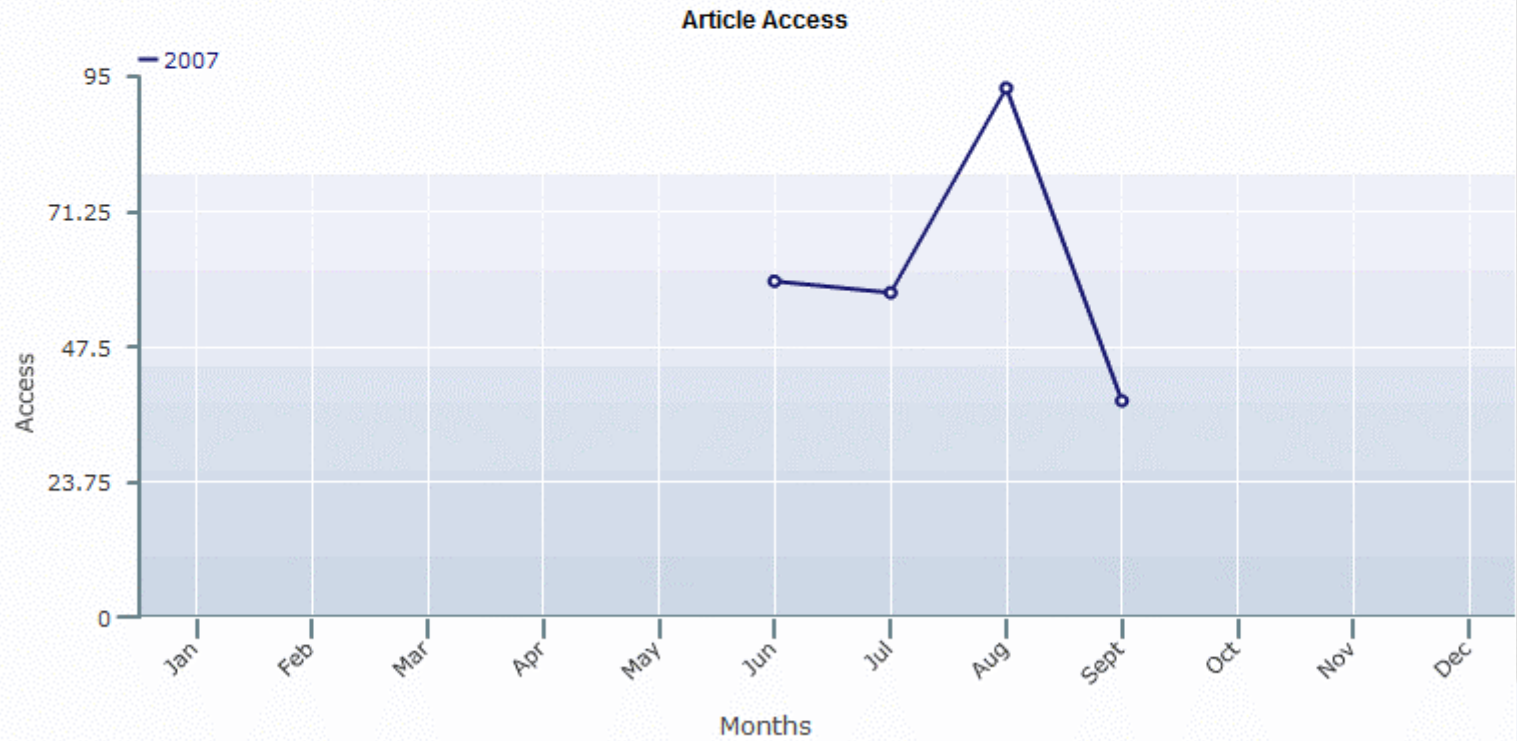
-  Custom services
-  Article in PDF format
-  Article in XML format
-  Article references
-  How to cite this article
-  Requests
-  Cited by SciELO
-  Cited by Google
-  Similar in SciELO
-  Similar in Google
-  Send this article by e-mail

Access Stats

Arán, Márcia; Peixoto Júnior, Carlos Augusto *Vulnerability and bare life: bioethics and biopolitics today*. Revista de Saúde Pública, 2006, vol., n. ahead, ISSN 0034-8910.

Choose by Year:

From: 2007 To: 2007



Web 2.0
na publicação científica ???



PLOS is a nonprofit organization of scientists and physicians committed to making the world's scientific and medical literature a freely available public resource. All our activities are guided by our [core principles](#).

» MORE ABOUT PLoS



Open Access: Everything we publish is freely available online for you to read, download, copy, distribute, and use (with attribution) any way you wish.

» MORE ABOUT OPEN ACCESS

FROM THE JOURNALS



If you are a scientist, doctor, patient, teacher, student, policy maker, or parent with an interest in science and medicine, you would not regret bookmarking The Public Library of Science."

— Deccan Herald, March 16 2006



../SUPPORT PLoS

PLoS is helping to shape the global open access movement — which includes scientists, funders, publishers, librarians, patient advocacy groups, lawmakers, and many others.

» JOIN US

- PLoS Flyers
- I Choose PLoS
- Web Banners and Buttons
- Presentation Slides
- Archive

- PLoS Computational Biology
- PLoS Genetics
- PLoS Pathogens
- PLoS Clinical Trials
- PLoS ONE
- PLoS Neglected Tropical Diseases

PLoS BLOG

In the August issue of PLoS Medicine


➔ Read more...


PLoS Neglected Tropical Diseases "sneak preview"

Open Access
Join PLoS
Submit Today

PARTNERS



 Recently Published

 Recent Ratings & Comments

- › [Locus-Specific Ribosomal RNA Gene Silencing in Nucleolar Dominance](#)
- › [Role of Transferrin Receptor and the ABC Transporters ABCB6 and ABCB7 for Resistance and Differentiation of Tumor Cells towards Artesunate](#)
- › [Wide-Scale Analysis of Human Functional Transcription Factor Binding Reveals a Strong Bias towards the Transcription Start Site](#)
- › [Cellular Immune Responses Induced with Dose-Sparing Intradermal Administration of HIV Vaccine to HIV-Uninfected Volunteers in the ANRS VAC16 Trial](#)
- › [Phage-Antibiotic Synergy \(PAS\): \$\beta\$ -Lactam and Quinolone Antibiotics Stimulate Virulent Phage](#)

What is PLoS ONE?

A new way of communicating peer-reviewed science and medicine.

Announcing Ratings

- ★ Registered users can now apply quality measures to articles
- ★ They can score research using three simple criteria: *insight*, *style*, and *reliability*
- ★ Articles can achieve a maximum of five stars - gives an "at a glance" feel for importance
- ★ Try out ratings in the *PLoS ONE*



Open Access
Join PLoS
Submit Today

PARTNERS



Recently Published

Recent Ratings & Comments

- › **Locus-Specific Ribosomal RNA Gene Silencing in Nucleolar Dominance**
- › **Role of Transferrin Receptor and the ABC Transporters ABCB6 and ABCB7 for Resistance and Differentiation of Tumor Cells towards Artesunate**
- › **Wide-Scale Analysis of Human Functional Transcription Factor Binding Reveals a Strong Bias towards the Transcription Start Site**
- › **Cellular Immune Responses Induced with Dose-Sparing Intradermal Administration of HIV Vaccine to HIV-Uninfected Volunteers in the ANRS VAC16 Trial**
- › **Phage-Antibiotic Synergy (PAS): β -Lactam and Quinolone Antibiotics Stimulate Virulent Phage Growth**
- › **Browse all recently published articles**

New and Noted

Why Men Matter: Mating Patterns Drive Evolution of Human Lifespan

Evolutionary theory predicts that human survival decreases with age because selective pressures on destructive mutations are less strong in older people. This paper models that

What is PLoS ONE?

A new way of communicating peer-reviewed science and medicine.

Announcing Ratings

- ★ Registered users can now apply quality measures to articles
- ★ They can score research using three simple criteria: *insight*, *style*, and *reliability*
- ★ Articles can achieve a maximum of five stars - gives an "at a glance" feel for importance
- ★ Try out ratings in the *PLoS ONE* Sandbox.

Try it today and give us your feedback.

Explore by Subject

- Anesthesiology and Pain Management (3)
- Biochemistry (84)
- ...

PLOS
NEGLECTED
TROPICAL
DISEASES

Sneak preview now available.

View it today.

Browse Articles

By Publication Date

By Subject

> [Past week](#)

> [Past month](#)

> [Past 3 months](#)

2007

Ago	01	08	15	22	29
Jul	04	11	18	25	
Jun	06	13	20	27	
Mai	02	09	16	23	30
Abr	04	11	18	25	
Mar	07	14	21	28	
Fev	07	14	21	28	

1 - 10 of 33 articles published in the **past week**.

1 | [2](#) | [3](#) | [4](#) | [Next >](#)

> Published 29 Ago 2007

[Wide-Scale Analysis of Human Functional Transcription Factor Binding Reveals a Strong Bias towards the Transcription Start Site](#)

Assif Yitzhaky, Mark Koudritsky, Varda Rotter, Anat Reiner, Or Zuk, Yossi Buganim, Ran Brosh, Yuval Tabach, Eytan Domany

> Published 29 Ago 2007

[Primary Role of Functional Ischemia, Quantitative Evidence for the Two-Hit Mechanism, and Phosphodiesterase-5 Inhibitor Therapy in Mouse Muscular Dystrophy](#)

J. A. Jeevendra Martyn, Shingo Egusa Yasuhara, Masao Kaneki, Akihiro Asai, Yasuyoshi Ouchi, Nita Sahani

> Published 29 Ago 2007

[GAD1 mRNA Expression and DNA Methylation in Prefrontal Cortex of Subjects with Schizophrenia](#)

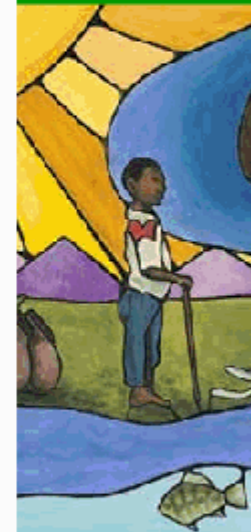
Schahram Akbarian, Hsien-Sung Huang

> Published 29 Ago 2007

[Characterization of a Family of Novel Cysteine- Serine-](#)



PLOS
NEGLECTED
TROPICAL
DISEASES



*Sneak preview
now available.*

**View it
today.**

We are still in beta! Help us make the site better and [report bugs](#).

OPEN  ACCESS

Wide-Scale Analysis of Human Functional Transcription Factor Binding Reveals a Strong Bias towards the Transcription Start Site

Yuval Tabach^{1,2}, Ran Brosh², Yossi Buganim², Anat Reiner¹, Or Zuk¹, Assif Yitzhaky¹, Mark Koudritsky¹, Varda Rotter², Eytan Domany^{1*}


¹ Department of Physics of Complex Systems, The Weizmann Institute of Science, Rehovot, Israel, ² Department of Molecular Cell Biology, The Weizmann Institute of Science, Rehovot, Israel


Background


Transcription factors (TF) regulate expression by binding to specific DNA sequences. A binding event is functional when it affects gene expression. Functionality of a binding site is reflected in conservation of the binding sequence during evolution and in over-representation of binding in gene groups with coherent biological functions. Functionality is governed by several parameters such as the TF-DNA binding strength, distance of the binding site from the transcription start site (TSS), DNA packing, and more. Understanding how these parameters control functionality of different TFs in different biological contexts is a must for identifying functional TF binding sites and for understanding regulation of transcription.

Methodology/Principal Findings

We introduce a novel method to screen the promoters of a set of genes with shared biological function (obtained from the functional Gene Ontology (GO) classification) against a precompiled library of motifs, and find those motifs which are statistically over-represented in the gene set. More than 8000

 Download Article XML

 Download Article PDF

 E-mail this Article



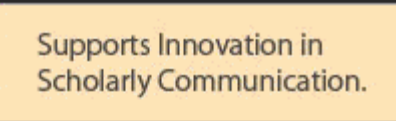
>

> Introduction

> Results

> Discussion

> Methods



[Login](#) [Create Account](#) [Feedback](#)



[Browse](#) [RSS](#)

[Home](#) [Browse Articles](#) [About](#) [For Users](#) [Authors and Reviewers](#)

[PLOS Journals](#) [PLOS.org](#)

Open Access

Join PLoS
Submit Today

PARTNERS



[Recently Published](#) [Recent Ratings & Comments](#)

- › [Insights from Amphioxus into the Evolution of Vertebrate Cartilage](#)
- › [Why Men Matter: Mating Patterns Drive Evolution of Human Lifespan](#)
- › [Contribution of Exogenous Genetic Elements to the Group A Streptococcus Metagenome](#)
- › [Phylogenomics Reshuffles the Eukaryotic Supergroups](#)
- › [Directed Cortical Information Flow during Human Object Recognition: Analyzing Induced EEG Gamma-Band Responses in Brain's Source Space](#)

[New and Noted](#)

What is PLoS ONE?

A new way of communicating peer-reviewed science and medicine.

How to start and continue article conversations on PLoS ONE

- ★ Rate articles on *reliability*, *style*, and *insight*—a 3-point flexible plan
- ★ Build upon the work by commenting and/or annotating, even if you are not an expert
- ★ Remember authors welcome compliments and polite criticisms



We are still in beta! Help us make the site better and [report bugs](#).

OPEN ACCESS

Why Men Matter: Mating Patterns Drive Evolution of Human Lifespan

Shripad D. Tuljapurkar^{1*}, Cedric O. Puleston¹, Michael D. Gurven²

1 Department of Biological Sciences, Stanford University, Stanford, California, United States of America, **2**

Department of Anthropology, University of California at Santa Barbara, Santa Barbara, California, United States of America

Evolutionary theory predicts that senescence, a decline in survival rates with age, is the consequence of stronger selection on alleles that affect fertility or mortality earlier rather than later in life. Hamilton quantified this argument by showing that a rare mutation reducing survival is opposed by a selective force that declines with age over reproductive life. He used a female-only demographic model, predicting that female menopause at age ca. 50 yrs should be followed by a sharp increase in mortality, a "wall of death." Human lives obviously do not display such a wall. Explanations of the evolution of lifespan beyond the age of female menopause have proven difficult to describe as explicit genetic models. Here we argue that the inclusion of males and mating patterns extends Hamilton's theory and predicts the pattern of human senescence. We analyze a general two-sex model to show that selection favors survival for as long as men reproduce. Male fertility can only result from matings with fertile females, and we present a range of data showing that males much older than 50 yrs have substantial realized fertility through matings with younger females, a pattern that was likely typical

Download Article XML

Download Article PDF

E-mail this Article

Order Reprints

Print this Article

Commentary

[Add your annotation](#)

[Hide annotations](#)

[Start a discussion](#) about this article

[See all commentary](#) on this article

0 annotations

1 discussion

Average Rating **(1 User Rating)**

☆☆☆☆☆ [See all categories](#)

[Rate This Article](#)

> Top

> Introduction

Annotations and Discussions

Original Article

 Why Men Mating Patterns Drive Evolution of Human Lifespan

0 responses

[Referee Comments: Referee 2 \(Conrad Istock\)](#)


Posted by  [PLOS ONE Group](#) on **04 Set 2007 at 10:56 GMT**

Most recent response on **04 Set 2007 at 10:56 GMT**


You can also [start a new discussion](#) on this article.

Annotation and Responses

Original Article

 Why Men Matter: Mating Patterns Drive Evolution of Human Lifespan

Referee Comments: Referee 2 (Conrad Istock)

Posted by  [PLoS ONE Group](#) on 04 Set 2007 at 10:56 GMT

Reviewer 2's Review (Conrad Istock)

"Initial comments and observations after reading the Abstract.

It is likely that most men and women in early human populations did not live to the age of 50. Some group leader males may have lived much longer and reproduced, but would likely have many deleterious mutations in their sperm, probably reducing the viability and survival of offspring. There is also the possibility that selection in these early populations might have favored longer, post-menopausal, survival of some women who performed behavioral roles that enhanced group survival. Such has been claimed for post reproductive female elk who guide their groups over routes they know will efficiently move them between summer and winter habitats. This is akin to the "grandmother" scenario cited in the introduction. At some point we will also have to face the fact that traditionally women live longer than men on average, though the gap is closing.



General comments.


I like the problem addressed here and the approach is intriguing. It is truly provocative and for that reason alone I hope it will be published.


I wonder how realistic the stability assumptions, for example p. 11, are. Early humans may have experienced incessant fluctuations in their demography. They, like the more recent analogues, probably lived in small groups innocent of stable age distributions and so on.

Ratings


Original Article

 Why Men Matter: Mating Patterns Drive Evolution of Human Lifespan 

Much needed addition to an important topic Posted by  [Robbrooks](#) on 31 Ago 2007 at 00:50 GMT

Insight	
Reliability	
Style	
Overall	

This is a fascinating model. In my own work I had seen the genetic correlation between male and female longevity (in insects) as a constraint on optimisation of separate life-histories. This paper has entirely changed my thinking about the evolutionary relationships between sex and longevity.

 All site content, except where otherwise noted, is licensed under a [Creative Commons Attribution License](#).

2005 – NIH Public Access Policy

2003 – Directory of Open Access Journal

2002 – HINARI

2001 – PLOS – Letter, Journal site in 2002

2000 – PubMed Central
BioMed Central

1999 – OAI

2005 set
Salvador Declaration on Open
Access: the developing world
perspective

2003 out
Berlin Declaration on Open
Access to Knowledge in the
Sciences and Humanities

2003 jun
Bethesda Statement on Open
Access Publishing

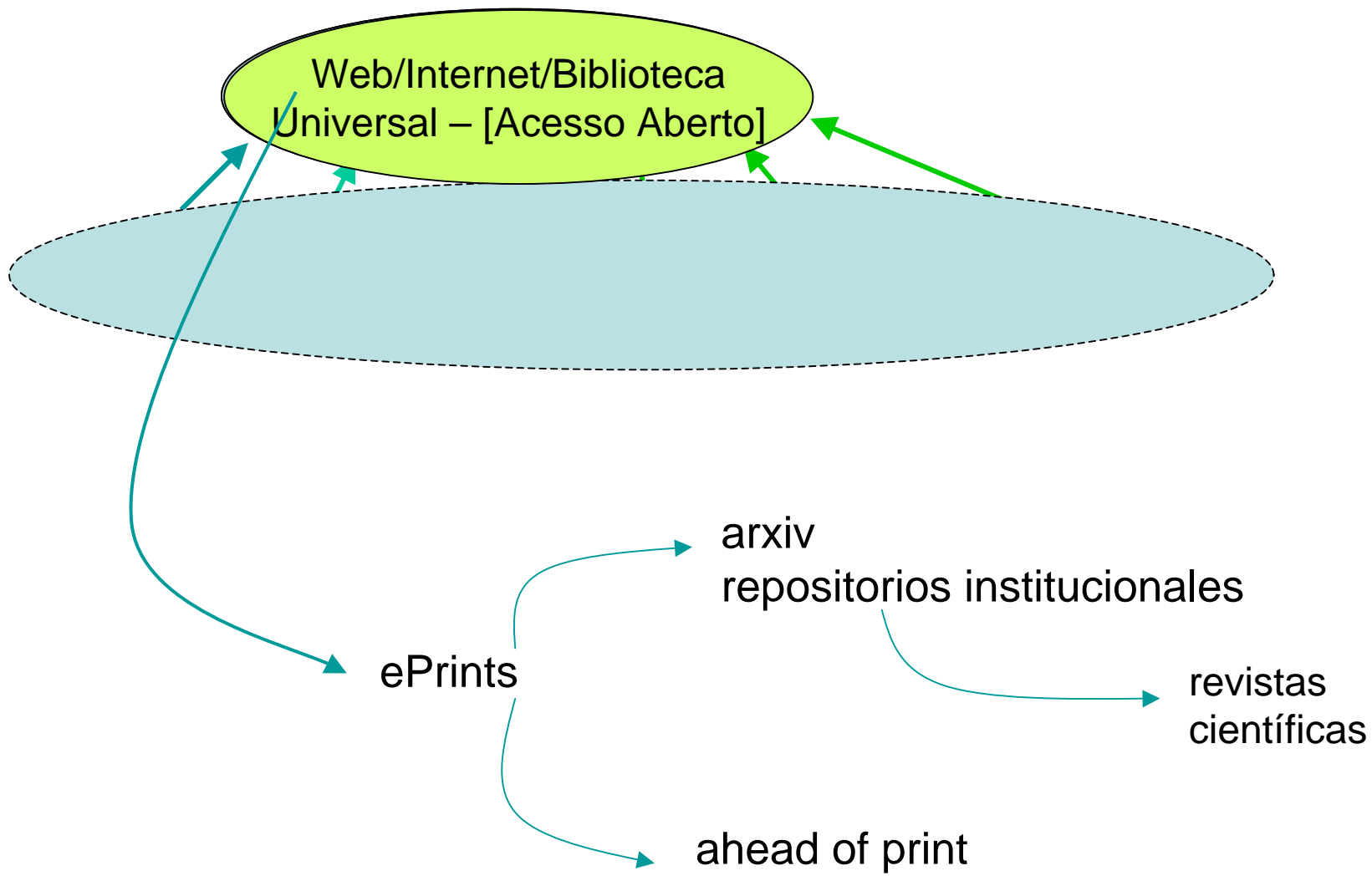
2002 fev
Budapest Open Access Initiative

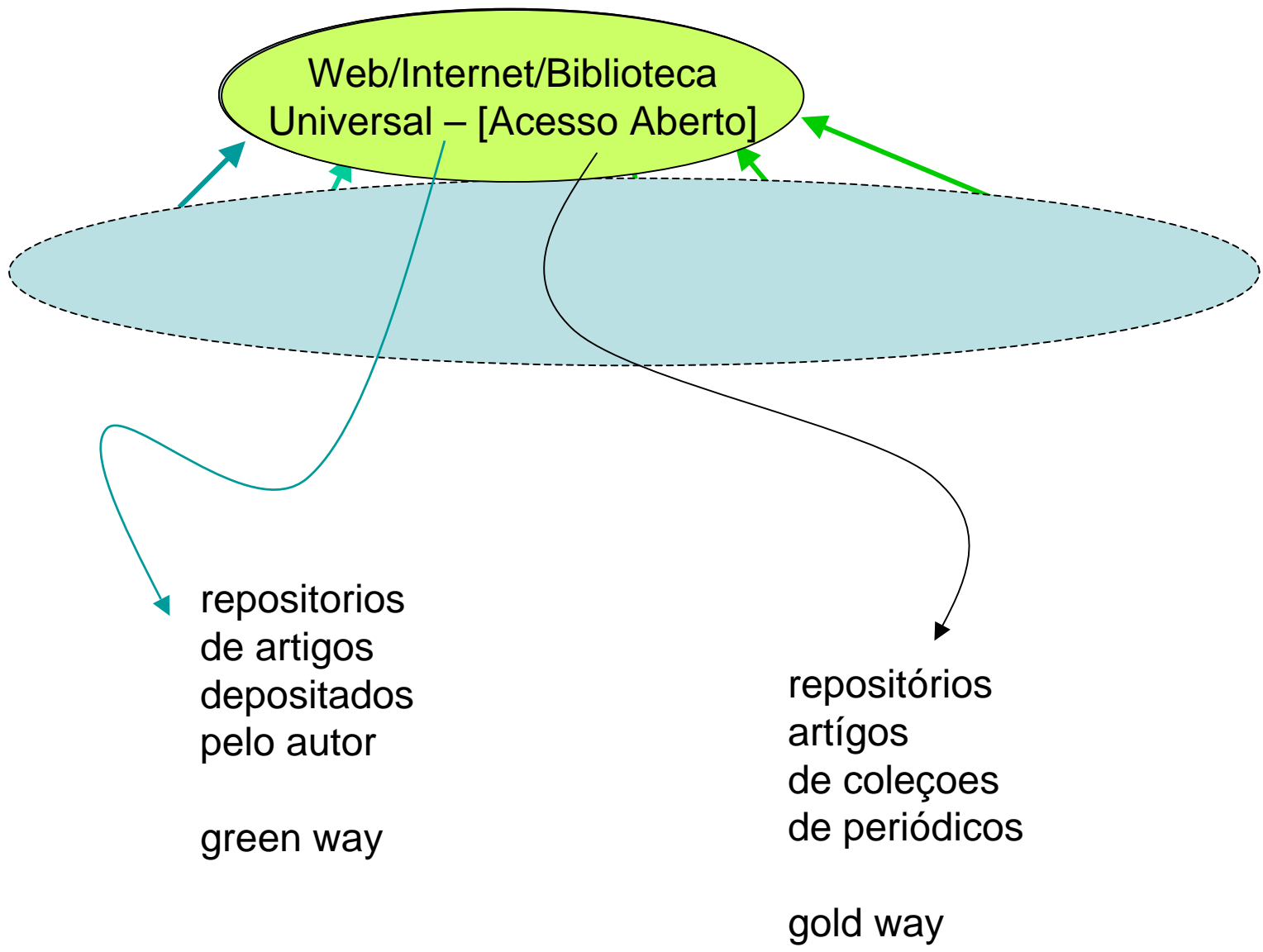
PubMed - MEDLINE
with open access

1993 – Bioline International

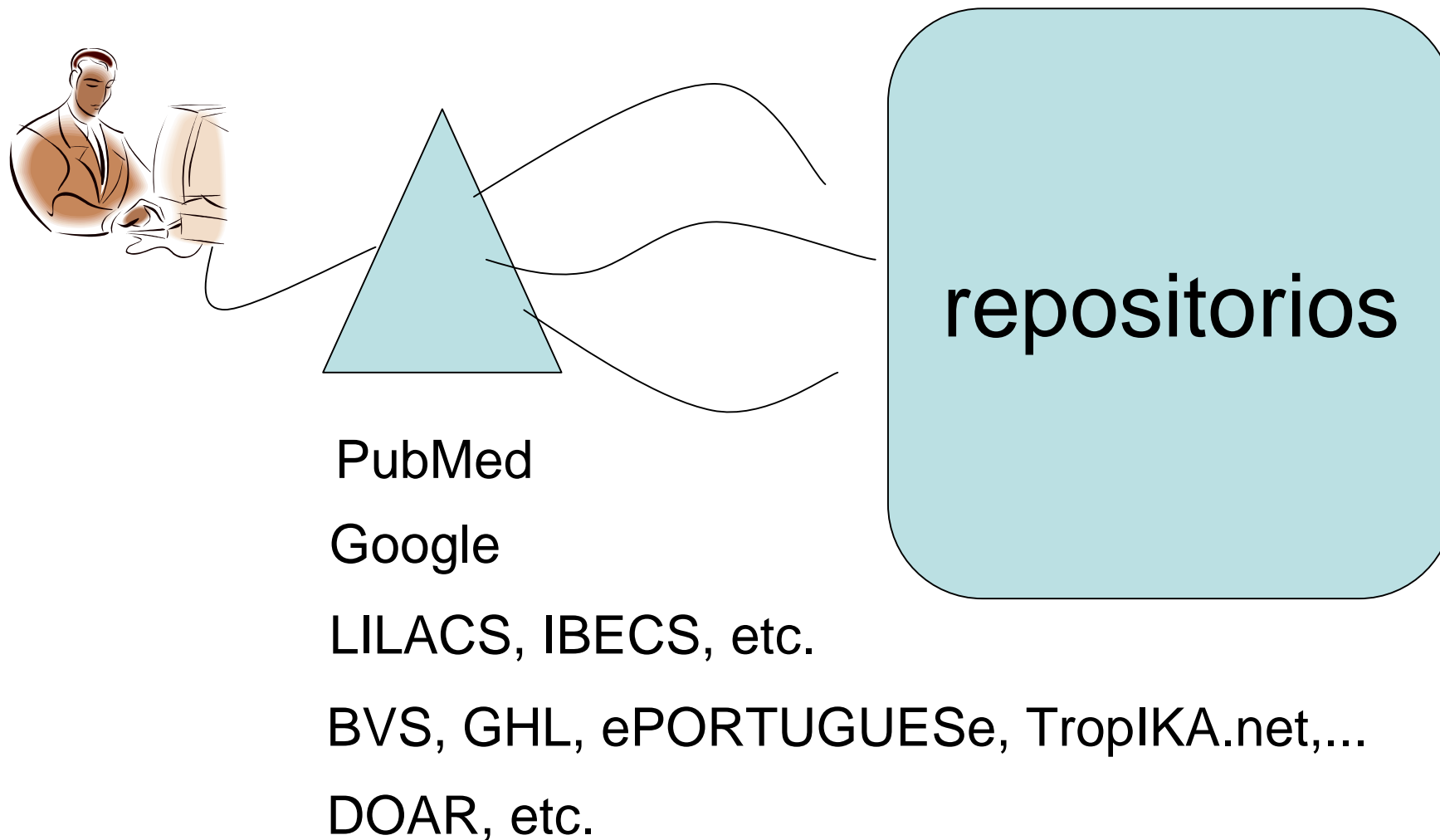
1991 – arXiv

OA - time line

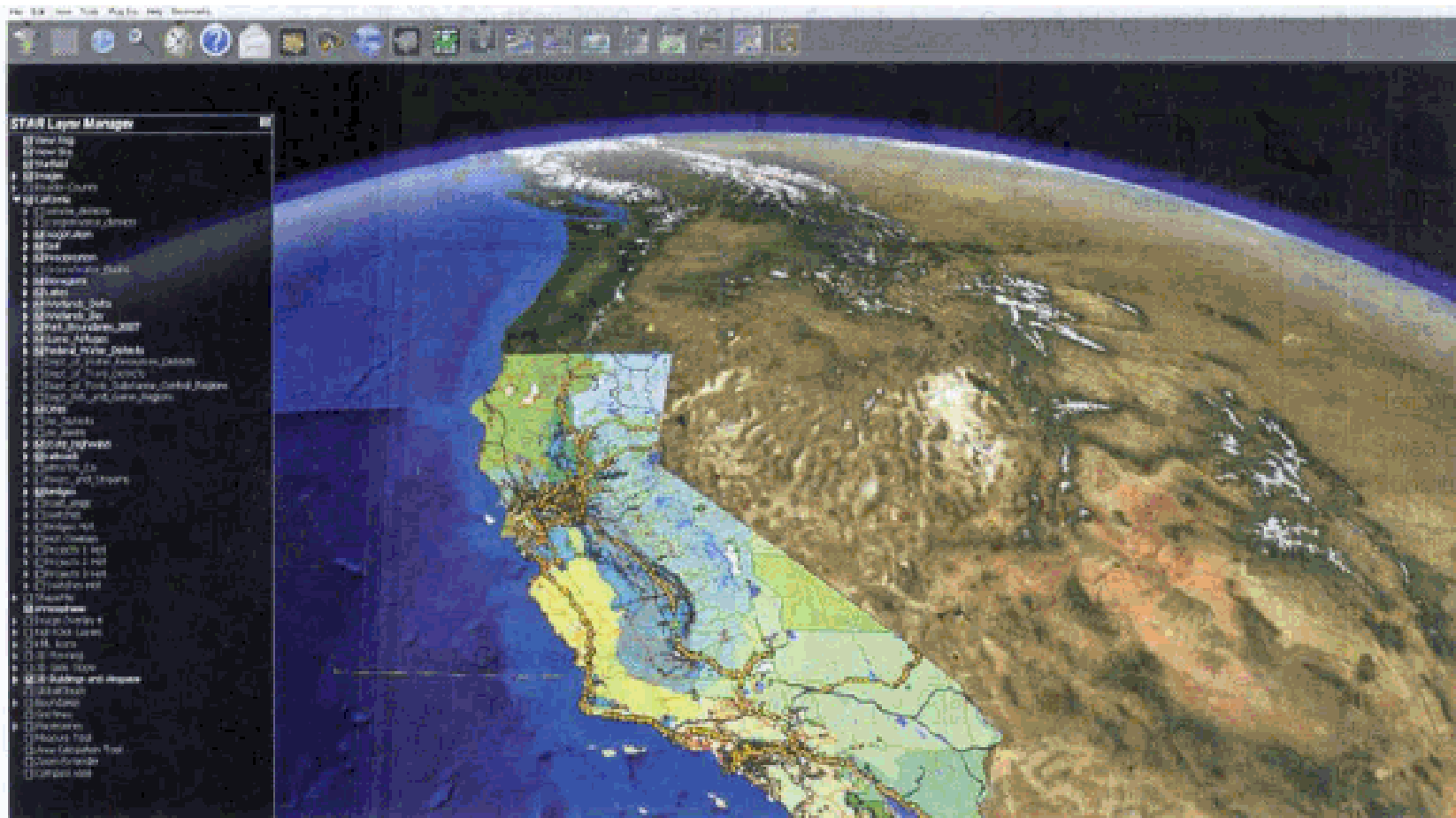




Os usuários, em geral pesquisam nos índices que estabelecem links com os conteúdos nos repositórios



A biblioteca de cada um:
desafios



The world on your desktop

Computing: As the internet becomes intertwined with the real world, the resulting "geoweb" has many uses

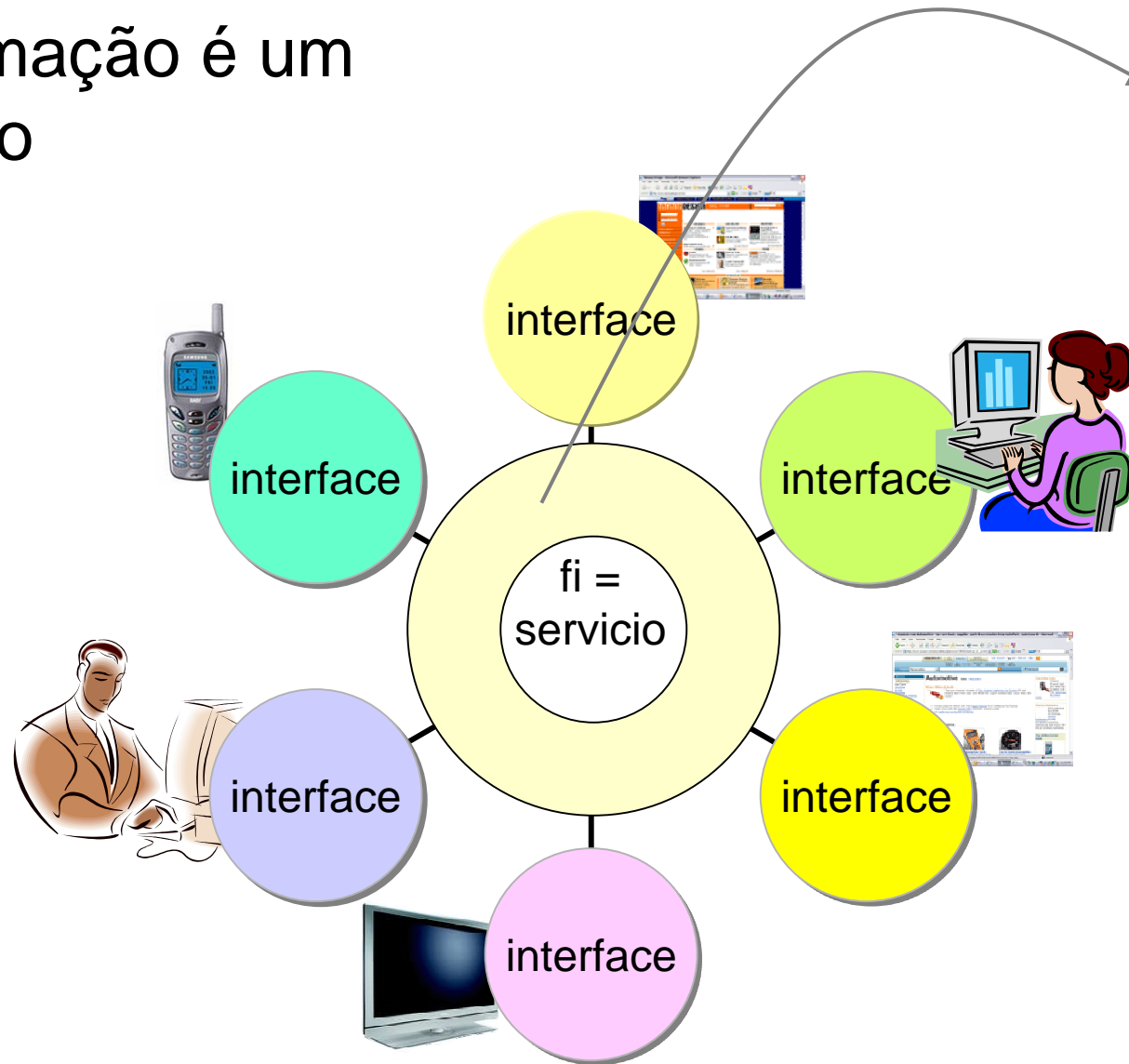
tres dimensões de redes

sociais

conteúdos

contextos

toda fonte de
informação é um
serviço



Protocolos
abiertos:
OAI,
RSS,
WS-SOAP,

O sentido do portais

as primeiras páginas web – a foto do presidente da organização

os sites replicando a estrutura burocrática da organização

os sites-portais com apoio de bases de dados – web invisível

os portais globais e temáticos

os individuais – a biblioteca de cada um

Portal JulioTak

General (4) personal tools NewsLetter BVS (18) News (14) **SciELO (38)** New Tab

(5) Cad Súde Pública

- Regional integration and health policies
- Universal health systems and territory: challenges for a regional policy in the Brazilian Legal Amazon
- From heterogeneity to harmonization? Recent trends in European health policy
- Health policy in the European Union: impact on the Spanish health system
- Health integration processes: challenges for MERCOSUR in the health field

(7) Cad Saude Pub vol.23 no.9

- Abortion and public health in Brazil
- The rights of criminally insane individuals
- Debate on the paper by Correia et al.
- Debate on the paper by Correia et al.
- Debate on the paper by Correia et al.
- Debate on the paper by Correia et al.
- Debate on the paper by Correia et al.

(7) Cad Saude Pub vol.23 suppl.1

- A social research agenda on globalization and infectious diseases in Latin America
- Whither equity in health? The state of the poor in Latin America
- Globalization, inequity and Chagas disease
- The health and economic impact of dengue in Latin America
- Chagas disease and globalization of the Amazon
- Globalization and infectious diseases in Mexico's indigenous population
- Globalization, inequality, and transmission of tropical diseases in the Venezuelan Amazon

(6) Dados

- The judiciary and public policies in Brazil
- Autonomy and discretionary power of the Public Prosecutor's Office in Brazil
- Francisco Campos and the foundations of anti-liberal constitutionalism in Brazil
- The best possible government: Francesco Guicciardini and the prudential method of political analysis
- The effects of inter-party migration on congressional conduct
- Ups and downs in Brazil: an analysis of socio-occupational mobility and success in the urban work market

(7) Dados vol.50 no.1

- Baudrillard e a p
- Simmel in Brazil
- Sequences in a Brazilian political sociology
- Space and Brazilian thinking: the American Russia in the writing of Euclides da Cunha and Vicente Lic
- Poverty and saving humanism: underlying mediations
- Models of capitalism and comparative political economy: institutions, performance, and the german and japanese responses to recent challenges
- International trade negotiations and democracy: the WTO drug patent dispute between Brazil and the USA

(6) Dados vol.49 no.4

- Eduardo Kugelmas (1940-2006)
- The open-list of electoral system in Brazil
- Are electoral rules important? Models of electoral lists and their effects on party competition and institutional performance
- Where are we in history? Sixty years of institutional reforms in Italy (1946-2005)
- Andean democracies: late to the party?
- Class, race, and social mobility in Brazil

Inclusão social, digital e informacional

Idiomas

Identidade

Foto Alejandra Brun/Agência France Presse 25.10.2004



Mulheres da região de Huancavelic protestam em Lima contra o conflito armado no Peru.

É pertinente assinalar, contra todo esse pano de fundo histórico e atual, que a questão da identidade na América Latina é, mais do que nunca, um projeto histórico, aberto e heterogêneo, não só, e talvez não tanto, uma lealdade com a memória e com o passado. Porque essa história permitiu ver que na verdade são muitas memórias e muitos passados, sem ainda um caminho comum e compartilhado. Nessa perspectiva e nesse sentido, a produção da identidade latino-americana implica, desde o início, uma trajetória de inevitável destruição da colonialidade do poder, uma maneira muito específica de descolonização e de liberação: a des/colonialidade do poder.

QUIJANO, Aníbal. Dom Quixote e os moinhos de vento na América Latina. *Estud. av.* [online]. 2005, vol. 19, no. 55

l'information veut être libre



Obrigado