



SciELO

Scientific Electronic Library Online

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SciELO origins

started in 1997, in Brazil, through a pilot project, based on a partnership among FAPESP, BIREME and 10 Brazilian scientific editors of journals from different subject areas

FAPESP: impact factor of journals not in the main-stream

BIREME: methodology for electronic publishing

Editors: moving to electronic publishing and acting as focal group

all: strengthen the scientific communication

regular operation started in 1998

early adoption by CONICYT Chile in 1998 did characterize SciELO as an international initiative from the very beginning

SciELO

foundations
trends
perspectives

1

Strengthen regional and local scientific communication/ high quality journals

2

Model for electronic publishing

3

Contribute to formulation and implementation of national policies on scientific communication

SciELO
evolution
1997-2004



SciELO
evolution
1997-2003



2002

2003

2004



Pilot Portugal

SciELO Spain

Pilot Peru

Argentina

Pilot México

Pilot

Bolívia

SciELO Venezuela

Colômbia

Equador

Jamaica

Portugal

Uruguai...

SciELO
collections
July 2004

	Start	Aug 2004
Brazil	1998 (10)	127
Chile	1999 (06)	42
Cuba*	2001 (05)	14
Spain*	2001 (03)	17
Public Health	2000 (05)	08
Costa Rica**	2000 (05)	09
México**	2003 (10)	10
Venezuela**	2000 (04)	28
Colômbia**	2004(03)	04
Peru**	2004(07)	07
TOTAL		262

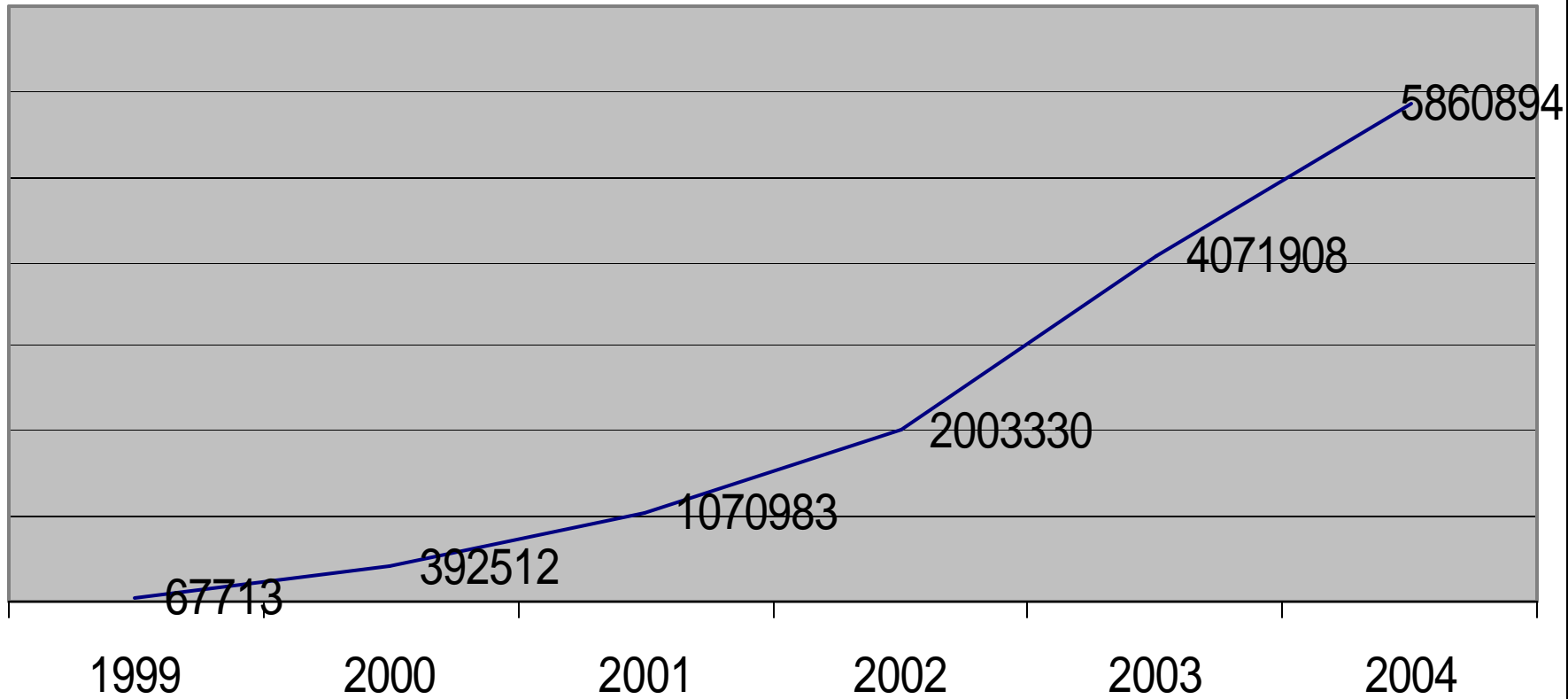
More than **2.700** issues

More than **47.000** articles

* includes Health Sciences only

** collections in development

Articles requests - SciELO Brazil





Library collection

Lista de dados fonte

▼ - click to select the sort column

▲ - indicate current order

journal title/year ▲	no. of issues ▼	no. of articles ▼	no. of granted citations ▼	no. of received citations ▼	average articles per issue ▼	average granted citations per issue ▼	average granted citations per article ▼	average received citations per issue ▼	average received citations per article ▼
Acta Bot. Bras.	12	139	4489	238	11.58	374.08	32.29	19.83	1.71
2003	4	52	1763	86	13.00	440.75	33.90	21.50	1.65
2002	4	39	1293	61	9.75	323.25	33.15	15.25	1.56
2001	3	38	1139	53	12.67	379.67	29.97	17.67	1.39
2000	1	10	294	38	10.00	294.00	29.40	38.00	3.80
Acta Cir. Bras.	46	499	9388	321	10.85	204.09	18.81	6.98	0.64
2004	3	37	881	22	12.33	293.67	23.81	7.33	0.59
2003	12	114	2116	82	9.50	176.33	18.56	6.83	0.72
2002	9	94	1792	44	10.44	199.11	19.06	4.89	0.47
2001	5	68	997	46	13.60	199.40	14.66	9.20	0.68
2000	7	83	1353	44	11.86	193.29	16.30	6.29	0.53
1999	4	37	732	35	9.25	183.00	19.78	8.75	0.95
1998	4	42	1061	33	10.50	265.25	25.26	8.25	0.79



Library collection

Journal citation reports

Journal rankings on a three-year basis - year base 2003 [2]
 (only citations from SciELO journals are considered)

journals in alphabetic order	citations in 2003 to					source items in				imp. fact.	cit. in 2003 to 2003 items	source items in 2003	immed. index
	title	all years	2002	2001	2000	2002+	2001	2000	2002+				
Acta Bot. Bras.	5	-	-	1	1	39	38	10	87	0.0115	-	25	-
Acta Cir. Bras.	57	4	5	5	14	94	68	83	245	0.0571	1	75	0.0133
An. Acad. Bras. Ciênc.	48	2	4	6	12	50	46	47	143	0.0839	-	40	-
Arq. Bras. Cardiol.	195	16	27	13	56	138	109	102	349	0.1605	1	97	0.0103
Arq. Bras. Med. Vet. Zootec.	69	5	2	16	23	112	124	117	353	0.0652	4	88	0.0455
Arq. Gastroenterol.	8	-	1	1	2	42	44	41	127	0.0157	-	11	-
Arq. Neuro-Psiquiatr.	171	20	22	12	54	194	185	179	558	0.0968	-	167	-
Braz J Med Biol Res	162	17	18	21	56	189	201	186	576	0.0972	2	203	0.0099
Braz. J. Chem. Eng.	6	-	1	2	3	52	41	103	196	0.0153	-	41	-
Braz. J. Microbiol.	6	1	1	4	6	71	70	64	205	0.0293	-	18	-
Braz. J. Phys.	2	1	-	-	1	163	86	98	347	0.0029	-	89	-
Braz. arch. biol. technol.	6	3	-	1	4	89	74	15	178	0.0225	-	41	-
Cad. CEDES	4	-	-	1	1	15	18	21	54	0.0185	-	16	-
Cad. Saúde Pública	306	23	51	40	114	189	158	131	478	0.2385	4	172	0.0233
Cerâmica	7	2	-	1	3	39	34	33	106	0.0283	1	20	0.0500
Ci. Inf.	53	2	3	8	13	36	31	32	99	0.1313	-	25	-
Dados	10	-	1	2	3	22	21	26	69	0.0435	-	5	-
Eclet. Quím.	4	2	-	-	2	53	18	18	89	0.0225	-	-	-

SciELO Brasil x JCR

SciELO Brazil
journals that
increased its
impact factor
(JCR 2001-2002)

Título	Fator de impacto JCR	
	2001	2002
ARQ BRAS MED VET ZOO	0,032	0,116
ARQ NEURO-PSIQUIAT	0,228	0,257
BRAZ ARCH BIOL TECHN	0,050	0,147
BRAZ J MED BIOL RES	0,769	0,802
ECLET QUIM	0,037	0,194
J BRAZIL CHEM SOC	0,619	1,036
PESQUI AGROPECU BRAS	0,066	0,133
PESQUISA VET BRASIL	0,087	0,288
QUIM NOVA	0,444	0,637
DADOS-REV CIENC SOC	0,064	0,217
REV SAUDE PUBL	0,134	0,260

SciELO

foundations
vocation

1

Strengthen scientific communication/ high quality journals from developing countries

the access to scientific and technical information is essential for economic and social development

research results are mainly communicated and validated through publication in scientific journals

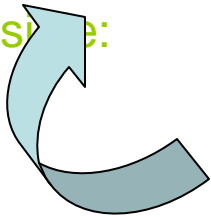
developed countries have a very well established scientific communication infrastructure

only a small percentage of the scientific production from developing countries shares this infrastructure

most of the developing countries scientific journals lack adequate distribution and dissemination

in consequence, local generated scientific information is lost or have a limited impact.

But if vision:



it will progressively increase the usage and impact of local information on decision making processes at different levels

it will contribute to develop a positive feedback to local scientific journals

SciELO

foundations
vocation

1

Strengthen scientific communication/ high quality journals from developing countries

moving to electronic publishing in a way that addresses the chronic problems that affect scientific journals in developing countries

inclusion in the global flow of scientific information

increase visibility, accessibility and credibility of regional/local high quality journals

measure usage and impact

improve quality of journals

LA&C, Portugal and Spain journals. Estimate universe:

2004 - up to 300 titles and about 12.000 articles per year

2007 - up to 500 titles and about 20.000 articles per year

SciELO

2

Model for electronic publishing

foundations

trends

operation

A - Methodology for electronic publishing

B - SciELO Sites

C - Network of SciELO sites

SciELO

operation model

A - SciELO Methodology for electronic publishing

selection, preparation, storage, preservation, publication, dissemination and evaluation of scientific publications

compatible with international standards and initiatives

adequate to developing countries conditions

cooperative development – capacity building

public domain within SciELO Network

interchange with developing countries projects:
INASP/AJOL, Latindex, Artemisa, etc.

SciELO

operation model

A - SciELO Methodology for electronic publishing

main features / characteristics

selection criteria to entry and remain in a collection

markup and load into a database

3-language interface to browse journals, search articles and indicators of usage and impact

links to other information sources

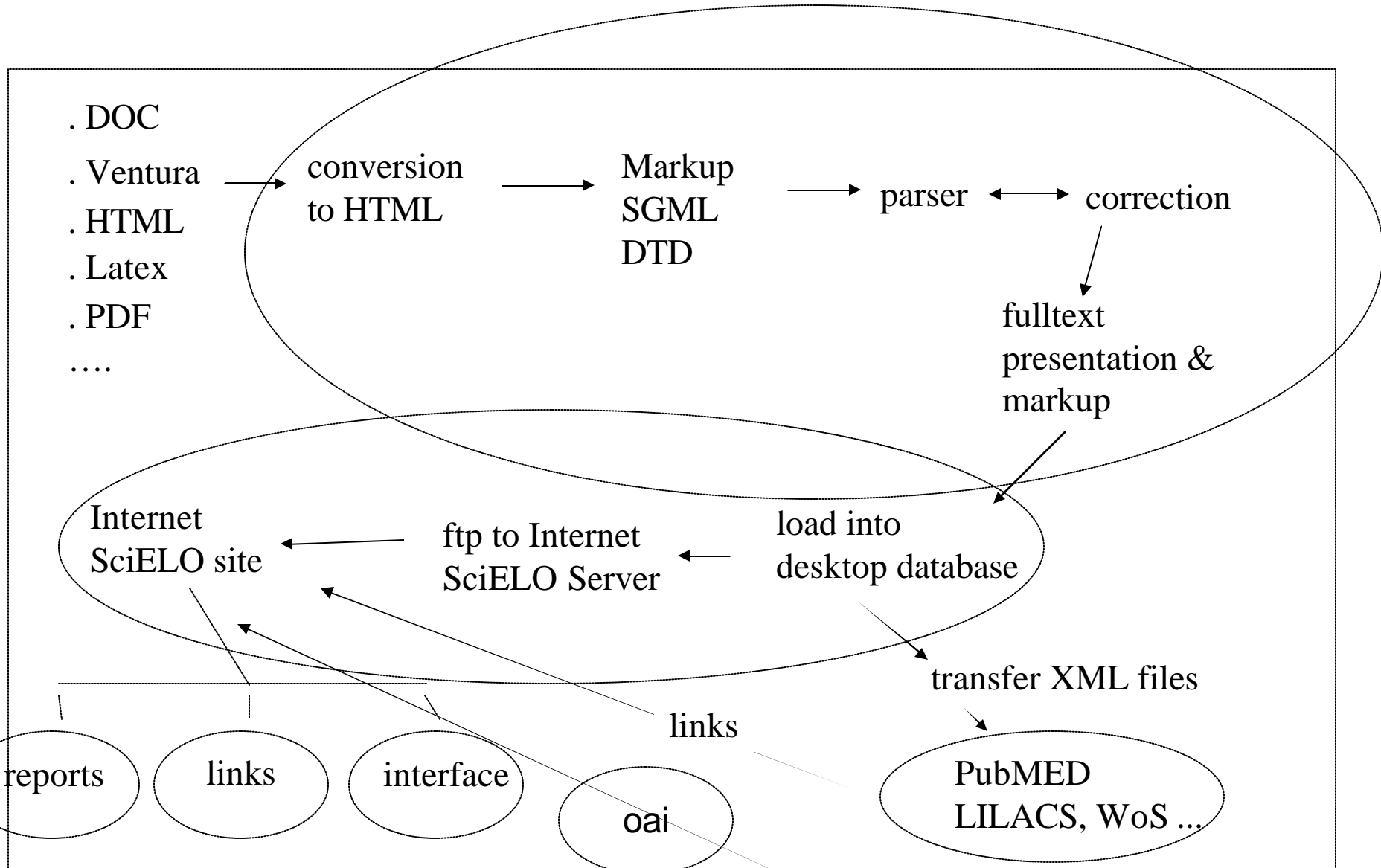
- author name → CvLAC/ScienTI
- bibliographic reference → bibliographic record

links from other information sources

- author CvLAC/ScienTI → articles
- bibliographic records → articles

export metadata to bibliographic data bases

SciELO Methodology current work flow



SciELO

operation model

B - SciELO Sites

implemented at national, regional, thematic levels

coordinated by national / regional institution

quality control / development by an Advisory Committee

selection criteria

- scientific, with peer-review

- frequency, update and time of operation

- articles: title, abstract and keywords in English

- standards of organization, presentation, bibliographic rules

- indexed in international and national databases

- indicators: usage, impact, links, etc.

preservation of national collection: copies in CD-ROM, DVD, mirrors

SciELO

C - Network of SciELO sites

operation
model

SciELO sites from LA, Caribbean, Portugal & Spain

partnership: national and international scientific and technological related institutions, scientific editors and publishers, libraries, etc.

SciELO Portal provide access through out the decentralized network of SciELO sites

thematic cuts from the national collections of journal

<http://www.scielo.org>

SciELO

trends

perspectives

model

3

Contribute to the formulation and implementation of national policies on scientific communication

SciELO as an index to support scientific journals national policies and programs. In progress in Brazil and Chile

integrating national, regional and international research management information systems. Ex. Plataforma Lattes, CvLAC, ScienTI, etc.

enriching the mechanisms for the evaluation of research programs, institutions, networks and groups

integrating to the national and international programs for accessing electronic journals

Example in health sciences →

SciELO
trends
perspectives

move towards full [only] electronic publishing

articles submitted according to markup templates to facilitate load into databases, links, statistics

challenges
&
conclusions

fast publishing, low costs

hard copy is a sub-product

methodology/technology – big challenges

make it easier and portable and pervasive

search across the network – Web Services technology

search across multilingual contents, show results ordered by relevance

statistical reports – standard group of statistics, indicators, export data for further process

linking - text based links and content based links

SciELO
trends
perspectives

challenges
&
conclusions

improve / measure quality of scientific journals

indicators of usage and impact publicly available

improve quality control across SciELO Network,
increasing the usage / interchange of peer reviewers
and experience

consolidate the SciELO Network

Ideal network in the next 2 years:

Argentina, Brazil, Chile, Colombia, Costa Rica, Cuba,
Mexico, Portugal, Spain and Venezuela

sustainability

national programs to support scientific journals

searching for/building core collections

integrate SciELO in national programs of accessing
electronic information sources

going fully electronic to lessen costs

SciELO
trends
perspectives

conclusions

... the expectations from the very beginning

comprehensive approach of the scientific communication from developing countries: quality control, universal access, evaluation, preservation

development of a common and cooperative space for the scientific communication which will enhance synergies

increase the usage and impact of local generated scientific information on decision making processes at different levels

contribute to economic, social, cultural and scientific development

lessen the information divide