

SciELO Publishing Model – the evolving dimensions of sustainability

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La Science Ouverte en marche. Les chercheurs, acteurs des mutations de l'édition scientifique
à l'ère de l'Open Access, Paris, 13 October 2015

Background – about the SciELO Model

Sustainability framework

Dimensions of sustainability

The public consultation period of the bill extends to Sunday, October 18th. Until then, it is possible for any Internet user to access the public consultation page (in French)³ and vote against (“*Pas d’accord*”) the current wording of Article 9, for the reasons stated above. Moreover, it is also advisable to access the amendment to Article 9 proposed by the Director of the CNRS, Renaud Fabre⁴, by voting for (“*D’accord*”) open access to scientific literature and data, reducing the embargo period to six months/1 year and the possibility of commercial exploitation of research results.

should be easily retrieved upon request to providers.

3. Internet access is considered a prerequisite for social inclusion, professional improvement and social life. Access to people with disabilities is also foreseen and access service subsidized by the government will be provided to families with financial issues.

Regarding scientific research, the law “For a Digital Republic” establishes as main points:

Background – about the SciELO Model

SciELO is an international cooperation program for the advancement of research communication implemented via a network of nationally operated collections of peer review journals published in Open Access.

Research infrastructure programs at national level

Ex. SciELO / FAPESP Program – SciELO Brazil

Specific objectives – to maximize the availability, visibility, use, impact and credibility of independently edited journals and the research they communicate
to improve the quality of the journals
to complement international bibliographic – bibliometric indexes

Multilingual and coverage of all disciplines

SciELO Network – Evolution

- 17 years of regular operation
- 15 national collections
 - 12 LA, Spain, Portugal South Africa
 - ~ 1 100 active journals
 - ~ 900 in SciELO Citation Index / WoS
 - ~ 500 000 articles
- Governance & funding
 - decentralized
 - research agencies - ministries
 - development – scientific committee
 - common methodology
 - SciELO Brazil – coordination and executive secretariat of the network

Year started	#	Collections		Journals Indexed				Articles
		Collection	Type ¹	All2	Active ³	Certified ⁴	SciELO CI ⁵	
1998	1	Brazil	C	344	280	280	285	294 391
	2	Chile	C	107	95	95	93	48 392
2000	3	Costa Rica	C	23	18	18	15	6 040
	4	Public Health ⁶	C	17	17	17	0	31 124
2001	5	Cuba	C	57	52	52	41	25 815
	6	Spain	C	58	41	41	36	28 966
	7	Venezuela	C	57	32	32	8	16 905
2003	8	Mexico	C	155	131	131	89	34 462
	9	Argentina	C	123	116	116	65	25 178
2004	10	Colombia	C	195	195	195	140	45 857
	11	Peru	C	22	21	21	18	6 755
	12	Portugal	C	54	37	37	28	11 208
2005	13	Uruguay	C	14	14	14	-	2 818
2006	14	Social Sciences ⁷	I	33	-	-	-	665
	15	West Indian	D	1	1	-	-	1 307
2009	16	Bolivia	C	16	16	16	16	3 705
	17	Paraguay	D	10	8	-	-	1 021
	18	South Africa	C	58	58	58	47	16 136
2015	18	Total Network		1309	1120	1111	869	577 296
1 - C = Certified; D = in Development; I = Interrupted								
2 - 3 journals once indexed, 1 active, excluded, name change and publication interrupted								
3 - journals being published regularly								
4 - journals from collections that complies with SciELO standards								
5 - journals being published ontime								
6 - includes 12 journals and 23394 articles already indexed in national collections								
7 - includes 23 journals and 523 articles already indexed in national collections								

SciELO functions

- **Main**
indexing, publication, preservation,
interoperability – dissemination, evaluation
- **Research**
Bibliometric, scientometric, methodologies and technologies,
- **Complimentary**
Edition, publishing, ...



Metapublisher

SciELO – Selective indexing

País	Latindex - Catálogo	SciELO Activas	
		n	%
Argentina	604	116	19%
Bolivia	22	16	73%
Brasil	2320	280	12%
Chile	394	95	24%
Colombia	534	195	37%
Costa Rica	119	18	15%
Cuba	128	52	41%
México	889	131	15%
Paraguay	29	8	28%
Perú	185	21	11%
Uruguay	86	14	16%
Venezuela	245	32	13%
Total	5555	978	18%

Latindex, September 2015, SciELO, September, 2015

indexing criteria - journals

- scientific – original research, essays
- standards
- performance
- adapted
 - thematic and nationally
 - evaluation indicators

collection certification

- common methodology
- performance

SciELO - interoperability



Web availability and Downloads – 1/3

SciELO pioneered OA journal collection publishing

LA is the region that relatively publish more in OA

- LA: 29% articles in OA in WoS vs ALL: 13%, USA: 10%,
- Brazil: +30% in Brazil / WoS, +70% in journals of Brazil
- LA: +30% articles in DOAJ, Brazil: 19%, Rank 1st, UK: 11%, 2nd

Web availability and Downloads – 2/3

RANKING WEB OF REPOSITORIES

Top Portals

<u>World Rank</u> ▲	<u>Portal</u>	<u>Country</u>	<u>Size</u>	<u>Visibility</u>	<u>Files Rich</u>	<u>scholar</u>
1	ResearchGate		5	3	1	2
2	Scientific Electronic Library Online Brazil SciELO Brazil		4	2	2	5
3	Academia.edu		3	1	43	16
4	DIALNET		8	5	4	4
5	Berkeley Electronic Press Bepress		1	7	15	15
6	Revues.org		15	4	81	11

10	Chile	71	Uruguay
15	Argentina	76	Venezuela
18	México	88	Paraguay
20	Colombia	98	Portugal
22	Public Health		
25	Spain		
31	Cuba		
36	Peru		
38	South Africa		
66	Bolivia		

Web availability and downloads {COUNTER} – 3/3

SciELO Analytics

www.scielo.br

Accesses ▾ Publishing ▾ FAQ

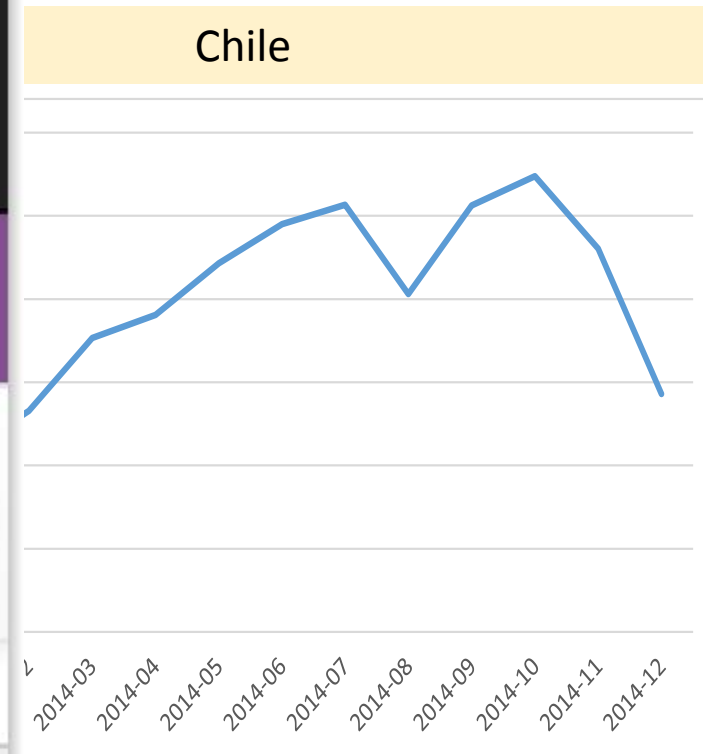
Charts

Journals

Top 100 issues

Top 100 articles

2015-09-28



ns per month, ~50 th docs

day

s and views of HTML (76%),
Abstract (4%) files

SciELO LA Network - indexing in SciELO, WoS y Scopus

	Index	journals	%
	SciELO and/or Scopus and/or WoS	1 439	100%
	SciELO	974	68%
	Scopus	716	50%
	WoS	258	18%
	SciELO only	564	39%
	SciELO and Scopus and WoS	178	12%
	SciELO and Scopus	402	28%

Sources: SciELO, Scopus, WoS, 2014,2015

SciELO LA Network – low impact in international indexes

Scimago, 2014 – LA journals - SJR major areas

Major area	journals	Median	LA journals	percentage in			
				q1	q2	q3	q4
Health Sciences	6654	0.299	223	0.0%	19%	31%	49%
Social Sciences	7395	0.247	238	0.8%	12%	37%	50%
Physcial Sciences	6690	0.423	123	0.8%	11%	26%	62%
Life Sciences	4289	0.577	160	0.0%	6%	41%	54%

Scopus, Journal List, June 2014

Considering SJR distributions for 310 thematic areas:

- 19% of journals above the median
- 4% in top 25%

SciELO Model - Sustainability framework

Criteria	Dimensions					
Relevance Performance Credibility	Research Agencies	Journals	Commercial Publishers	Open Access	Authors	SciELO Program
	research & information policies, funding and evaluation	legacy, editorial policies, managment & operation	aggressive expansion into Latin American markets	global evolution, national policies, business model	career, productivism, research evaluation, discipline, networking	objectives, policies, functions, priority action lines

SciELO Model - Sustainability framework

research agencies and institutions

research policies

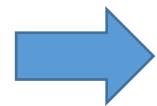
internationalization – [rankings] – national issues

research evaluation – driven by scientometric / bibliometric indicators - others

scientific information and research communication

access – national portals

incentive to publish on high impact [factor] journals



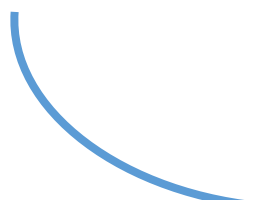
support to nationally edited-published journals

repositories – institutional and thematic

SciELO Model - Sustainability framework

journals --- 1/2

disciplines and thematic areas – characteristics – historically acquired
– research priorities
– scope ← national ---- international →



SciELO journals

cover 50% of the 250 WoS subject categories

> 70% of downloads / access at national level

~ 100% of chief-editors are nationally affiliated – most active reserchers

30% of articles in English in journals of Spanish countries, 56% in Brazil

WoS - LA journals

78% - LA, 42 to 75% of nationally affiliated authors, low international collaboration

19% - LA, 5 to 25% of the national articles in WoS or Scopus

SciELO Model - Sustainability framework

journals --- 2/2

Funding – mix of resources – institution responsible for the journal
– research agencies programs
– sponsors
– APC

Editing operation – fragmented – [one journal – one publisher]

in-house

in-house and external hired services

external hired services – editing- publishing companies

international Commercial Publishers

SciELO

SciELO Model - Sustainability framework

international commercial publishers

- active presence
 - selling of resources access to government / consortia
 - events - marketing
 - rarely purchase of journals
 - selling of editing / publishing services
 - individual or collections of journals – remain OA
 - individual journals – change to subscription mode
 - high costs for OA
 - promise of increasing impact not always achieved

SciELO Model - Sustainability framework

open access

SciELO pioneered OA journal collection publishing

LA is the region that relatively publish more in OA – 29% in WoS vs 13% all high visibility, downloads ... but not significant / perceived gain in citations

there is a lack of effective OA public policies

pending of the evolution of OA business model in developed countries

centralized megajournal platform represents a major risk to SciELO journals

SciELO publishing platform is expected to minimize journals production costs

SciELO quality control minimizes the emergence of LA predatory journals

SciELO Model - Sustainability framework

authors

... still under “publish or perish” academic productivism

reward / quality is associated with publishing in prestige journals

research evaluation systems

connotations varies with disciplines and thematic areas

SciELO journals preferred in human sciences, agriculture, public health,

but, most of the cases, nationally edited journals seen as second option

low international collaboration in many countries

lack of significant / leading presence in social networks

SciELO Model - Sustainability framework

SciELO Program

indexing recognized as quality seal – agencies, journals, authors, students ...

leading introduction / adoption of innovations

high impact regarding presence on the Web and downloads

priority lines of action – to promote a major advance in next 3-5 years

professionalization – to produce journals according the state of the art

internationalization – insertion in the global flow of scientific information

sustainability – mix of funding resources and low production costs

linked to / driven by indexing criteria

indicators at collection, thematic area and individual journal

implementation – one to five years

SciELO Model - Sustainability framework

... future outlook – recurrent / evolving issues:

Challenge – will advance with innovations and improve seal of quality status?

Funding model – will succeed to move from grants to auto sustainability?

Institutional model – from projects to formal independent organizations?

Relevance – will recognition / value be improved by national research policies?

Performance – will a more comprehensive evaluation framework succeed?

Credibility – will be enhanced through professionalization and dissemination?

Thank you !