

The Importance of Open Access in Latin America: Technology, Language and Democratization of Knowledge.

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THE IMPORTANCE OF OPEN ACCESS IN LATIN AMERICA: TECHNOLOGY, LANGUAGE AND DEMOCRATIZATION OF KNOWLEDGE

Gimena del Rio Riande (CONICET)

@gimenadelr



White House requires immediate public access to all U.S.-funded research papers by 2025

Policy is a blow to journal paywalls, but its impact on publishing is unclear

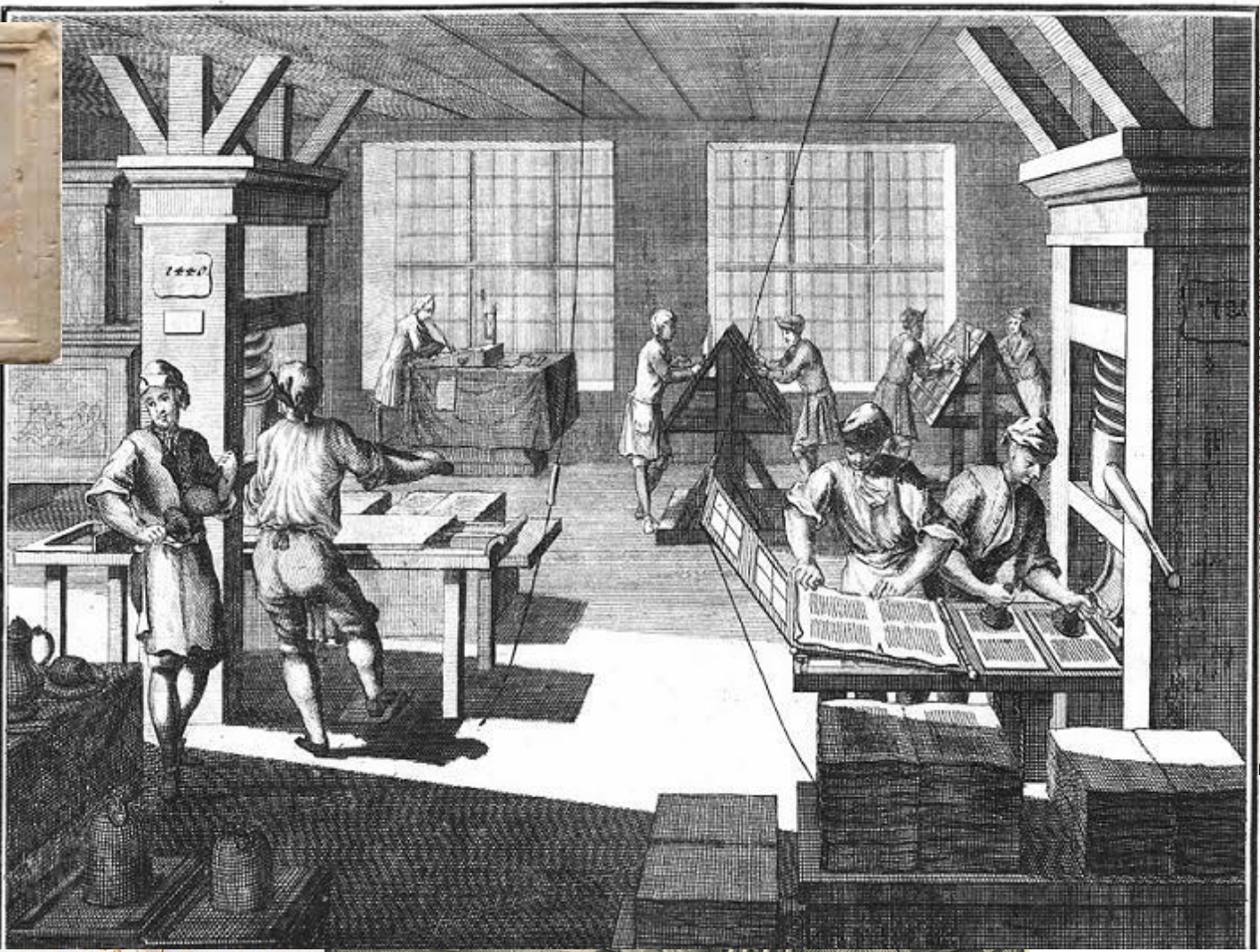
26 AUG 2022 - 2:30 PM - BY [JEFFREY BRANLUND](#), [JOCELYN KALGER](#)





**In the
beginning**

VERBA
VOLANT
SCRIPTA
MANENT



10

[Faint Latin text, likely bleed-through from the reverse side of the page.]



Pédagogie pratique — Mai 1933.

UN MOINE ÉCRIVANT
(M. F. 9198-F° 19. Les Miracles de N.-D.)

Photo B. N.

PHILOSOPHICAL
TRANSACTIONS:
GIVING SOME
ACCOMPT
OF THE PRESENT
Undertakings, Studies, and Labours
OF THE
INGENIOUS
IN MANY
CONSIDERABLE PARTS
OF THE
WORLD.

Vol I.

For *Anno 1665, and 1666.*

In the *SAVOY*,
Printed by *T. N.* for *John Martyn* at the Bell, a little with-
out *Temple-Bar*, and *James Allestry* in *Duck-Lane*,
Printers to the *Royal Society*.

LE
JOURNAL
DES
SCAVANS

Du Lundy V. Janvier M. DC. LXV.

Par le Sieur DE HEDOVILLE.



A PARIS,

Chez *JEAN CVSSON*, rue *S. Jacques*, à l'ima-
ge de *S. Jean Baptiste*.

M. DC. LXV.

AVEC PRIVILEGE DV ROY.

N^o 1^o Sabado 17. de Octubre

MERCURIO VOLA

CON NOTICIAS IMPORTANTES I CU
SOBRE VARIOS ASUNTOS

DE FISICA I MEDICINA

Por D. Josef Ignacio Bartolache, Doctor Mé
Claustra de esta Real Universidad de M

PLAN DE ESE PAPEL PERIC

*Parta mora est, alas pedibus virganque po
Somnigeram sumpisse manu, legsmenque
Haec ubi disposuit patriâ loco natus ab arc
Desilit in terras*

Ovid. Metamorph. l. VI. 67

*Se aprueba luego, i calza de sus alas
El pio ligero, cubre la cabeza,
I empuñando la vara encantadora,
Dándose en un momento hasta la tierra
El rubio hijo de Jupiter i Maia.*

Nuestra América Setentrional, esta gran par
del mundo, tan considerable por sus riquezas;
sido igualmente por la florecencia de las letras,
lo estudios i ciencias útiles, cultivadas por sus
ez porque no podía en solos dos siglos i medio
Progresos. El oro i plata de nuestras Minas,

THE AMERICAN JOURNAL OF SCIENCE,

MORE ESPECIALLY OF

MINERALOGY, GEOLOGY,

AND THE

OTHER BRANCHES OF NATURAL HISTORY;

INCLUDING ALSO

AGRICULTURE

AND THE

ORNAMENTAL AS WELL AS USEFUL

ARTS.

CONDUCTED BY

BENJAMIN SILLIMAN, M. D.

Professor of Chemistry, Mineralogy, &c. in Yale College; Author of Treatise in
English, French, and Holland, &c.; and Member of various Literary
and Scientific Societies.

VOL. I.

Price-Per Annum:

PUBLISHED BY J. KETCHUM AND CO. LITERARY ROOMS, BROADWAY,
AND BY HOWES AND SPALDING, NEW-YORK.

Sold by Everett-Russell, Hallowell, Maine; David Stone, Brunswick, Maine; Cummings &
Bennett, and Wells & Latta, Boston; James Smith, Northampton; Samuel N. Goodrich, Har-
vard; Clark & Lyman, Middlebury; Russell Hilditch, Norwich; S. & L. Greenleaf, Litchfield;
W. B. Fernald, Andover; William Williams, Uxbridge; E. P. Sargent, Albany; S. Fernald, Pro-
vidence; B. A. French, Baltimore; W. H. Prosser, New-Haven; W. P. Day, Pro-
vidence; Child & Lewis, Providence; William Brewster, and James T. Smith, Cincinnati;
John Wiley, Columbia, S. C.; W. T. Williams, Savannah; Henry W. H. Emerson, John Hill,
Charleston; Samuel B. Spencer, and John Wright, Norfolk; Benjamin Stone, New-Orleans.

PRINTED BY ANDRÉAS FONT.

1818.

Ecl. 15.

O PERUANO

DE ENERO DE 1791.

LAS DIVERSIONES PÚBLICAS
de Naciónes.

¿Cómo de sí hay ó no quien co-

ros tíera se para y no tiempo de-
plo se pueden mostrar talentos, sea
concurso solo ser pacífico y hable-
mos de deparar el tono que po-
no modo de materia, sin saber de
qué de desayrado y traidorera. Los
año los tabladis preguntado agua
ombre un Fembre un recargado de
to en qualquiera otro Pueblo ningún
uede concurrir á los Toros con un
so es tan cruel en esta parte, como
de.

servido en Lima mas que para al-
las ocasiones, letanias empiezan ya
larío Estudio y el Mercado subal-

TO FUNEL v. A To bore or per-
foras by diving a they instru-
ment. Funer, á bender un
punto.
FUNCH v. A pointed instrument,
which, driven by a blow, pro-
duces holes. Fures, instru-
mento de hierro que remota en
punta, y sirve para hacer.
FURON. A liquor made by mixing
spirit with water, sugar and the
juice of lemons or oranges. Fur-
che, bebida que se hace de agua-
diente mezclada con agua, can-
ya y azúcar.
FURON. The bottom or bottom of
the puppet show. *Algunos á
hijos de las salinas.*
FURON (Jr.) A sort of fish.
Cajigüeter, another puppet and
game.

The World Wide **Web**, an **internet**-based hypermedia initiative for global information **sharing** (**Tim Berners Lee**)

The *Public-Access Computer Systems Review* (*PACS Review*) was the first open access journal in the field of library and information science. It was established in 1989 by Charles W. Bailey, Jr., who served as Editor-in-Chief from 1989 through 1996. It was published by the University of Houston Libraries.^{[1][2]}

The journal was announced on the PACS-L discussion list on August 16, 1989. A call for papers was issued on October 16, 1989. The publication of the first issue was announced on January 3, 1990. The journal was cataloged on OCLC and assigned an ISSN number (1048-6542) by the Library of Congress National Serials Data Program on February 1, 1990.

Initially, the journal published scholarly papers (Communications section), columns, and reviews. Papers in the Communications section were selected by the Editor-in-Chief and the Associate Editor, Communications. A private mailing list was utilized for communication with editorial staff and Editorial Board members. Most communication with authors was done via e-mail, including paper submission.

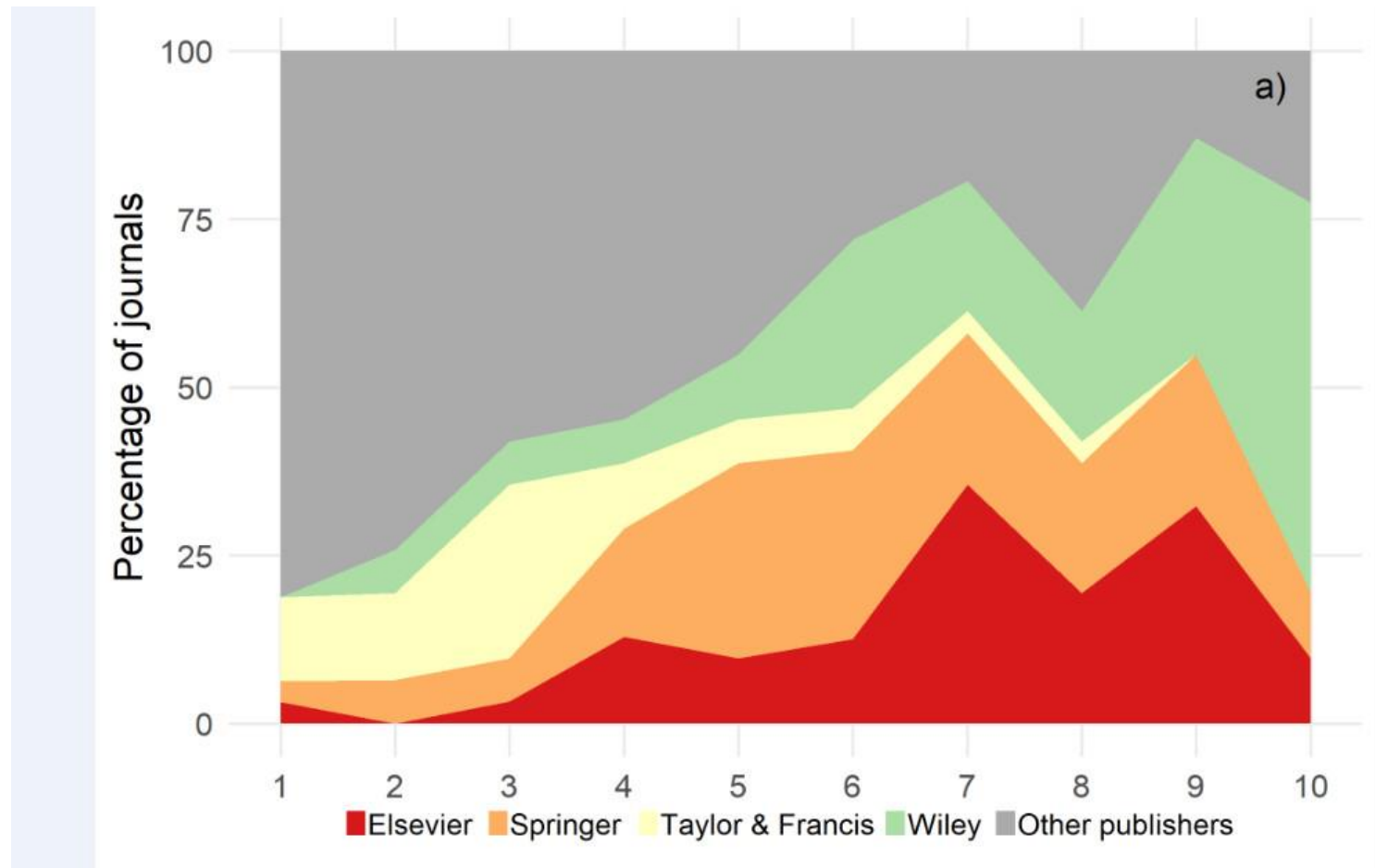
The *PACS Review* was published three times a year. New issue announcements were distributed as e-mail messages on the PACS-L discussion list, and users retrieved the ASCII article files from the University of Houston's LISTSERV via e-mail. (LISTSERV distribution was suspended in 1999.)

Authors retained the copyright to *PACS Review* articles, and they gave the University of Houston the nonexclusive right to publish the articles in the journal and in future publications. Authors could republish their articles

Journal Publishing

- A “relatively new” form of scientific communication
- Hasn’t changed much: Authority and Peer review
- Changes: Medium
- For some: a "business model" for a handful of experienced publishers in the traditional publish industry.





Advancing Open Access at Elsevier



2002

Elsevier is founding member of Research4Life, which gives **free or affordable access in 120 low- and middle-income countries**. 100K+ peer reviewed resources are currently available.



2004

- Elsevier **allows all authors to post a free copy of their article** in their repository.
- Selected journals make **archives free to read**. Now for 140+ journals, including Cell.



2005

Elsevier starts **sending articles to PubMed Central** to make freely available — 260k+ to date.



2009

Elsevier launches its **first fully gold open access journal**.



2013

- Elsevier **gives authors option to publish open access** in most journals that were previously subscription-only.
- Elsevier founds program to **make articles from major US federal funders freely available**. 50k+ now available subscription-only.



2018

Elsevier signs **OA agreement in Finland**, allowing their researchers to publish open access at no charge to the author.



2019

Elsevier signs **open access agreements in Norway, Poland, Hungary, Sweden, France and with Carnegie Mellon University in the US**, allowing their researchers to publish open access.

2020

- Elsevier signs **open access agreements in Switzerland, Ireland, the Netherlands, Qatar and Korea and with the University of Florida in the US** to enable their researchers to publish open

Elsevier makes **all COVID-19 articles and data freely available** — 50k+ resources to

2021

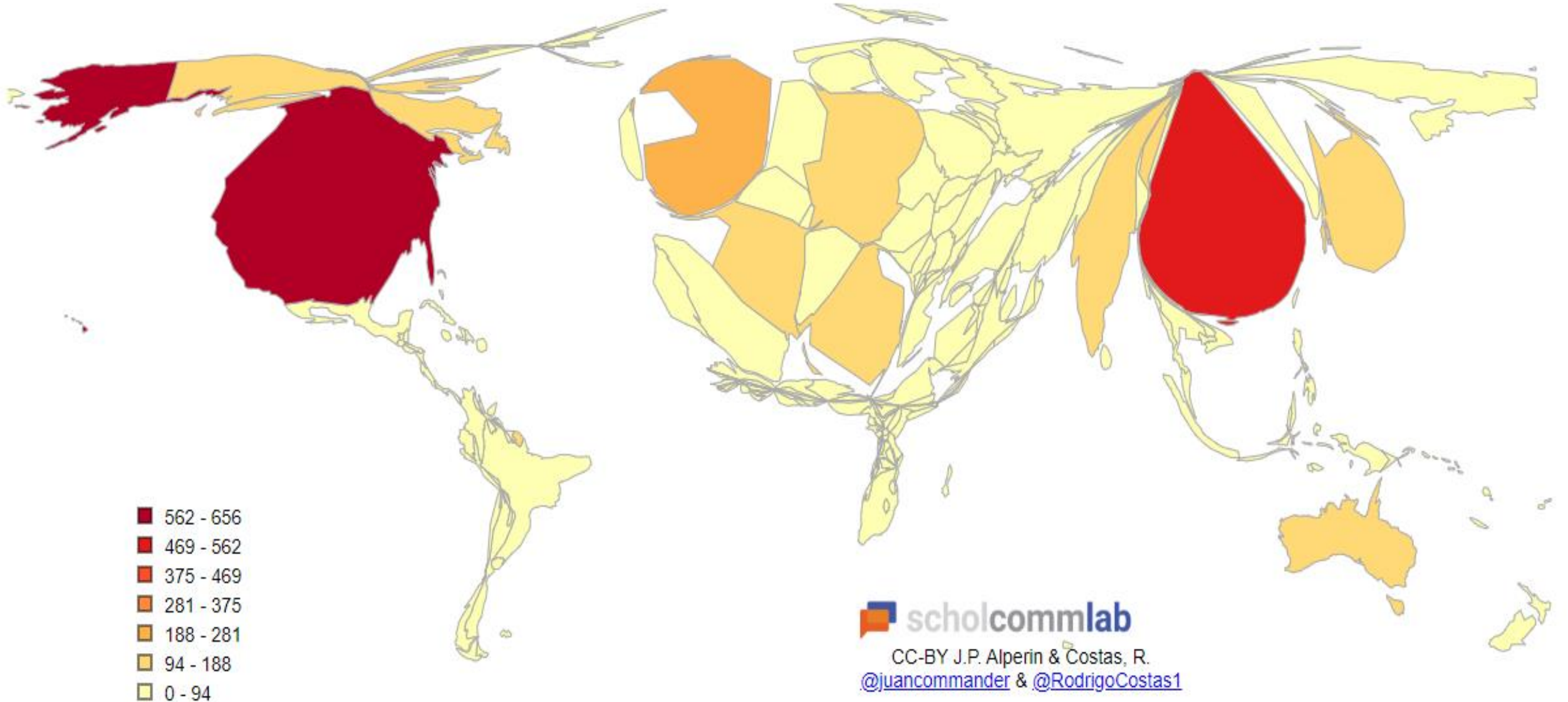
- Elsevier expands open access options for Cell Press Journals and **converts 160 subscription-based journals** into open access models
- Elsevier is first publisher to sign an open access transformative agreement with the Royal Danish Library to support continued reading and OA publishing for Danish researchers.

2022 ...

- Elsevier launches 100+ new fully gold open access journals, bringing the total to **600 fully gold open access journals**.
- Elsevier publishes **119k+ gold or pay-to-publish open access articles** — a year-on-year growth rate of over 46%. This makes Elsevier one of the largest open access publishers in the world.
- Elsevier signs **transitional agreement with Jisc-UK**, allowing their researchers to publish open access across all Elsevier journals.



World scaled by number of documents published in 2017
with authors from each country (publications counted once per country)





Laura Czerniewicz, Open Repositories Conference 2016, Dublin



Meanwhile, in Latin America

Latin America is an ethno-geographic concept that groups approx. twenty countries that suffer from wealth inequality, the impact of labor-saving technological change, and the lack of adaptation to technological advances.



The publishing model in Latin America

1 **Community-led**
Publications, repositories
managed by scholars

2 **Non-commercial**
Funded by governments - higher
education institutions
Free to read, free to publish

3 **Collaborative**
Networks of editors, librarians
Open Access platforms

knowledge as a common good

Non-commercial Open Access

- Publicly funded research should be available in open access on the public internet.
 - The cost of the publication is part of the cost of the research.
 - Repositories will strengthen local "Open Access" journals.
 - NC OA will promote the integration of the scientific information from developing countries in a global scale.
-
- DECLARATION of OPEN ACCESS (San Salvador de Bahia, Brazil, 2005)
 - <http://www.icml9.org/channel.php?lang=es&channel=87&content=437>

OA regional initiatives



1995



Scientific Electronic Library Online

1998



2002



1998



2012

Global North

Readership
paywalls

- Commercial publishers are part of academic publishing
- Digital transition of publishing inherited the subscription-based business model
- Paywalls
- Commercial OA based on author fees (APC).
- Consolidation of commercial OA through transformative agreements.

Authorship
paywalls

No
paywalls
neither for
authors nor
for readers

Owned by
academic
sector

Latin-America

- Scientific publishing has been owned by public universities.
- Digital transition of publishing with no fees (no APC)
- Platform ecosystem for quality and visibility: Latindex, Redalyc, Scielo, LaReferencia.
- Consolidation of non-commercial publishing (Diamond OA)



Science in Spanish

- English is the official language of over 60 countries and 85 per cent of international organisations
- It is the dominant language in the areas of entertainment and information (at present 80 per cent of electronically stored information is in English), economics and management, and science and technology
- Two-thirds of the world's scientists write in English, and most journals have shifted from other languages to English. In Germany, for instance, not only 98 per cent of physicists and 81 per cent of biologists, but also 72 per cent of sociologists and 50 per cent of philosophers use English as their main working language, and even two-thirds of France's scientific publications are in English

ISI (Institute for Scientific Information) perpetuated the notion of 'core journals' and the impact factor became a yardstick for 'excellence' in a publishing system in which the English language became progressively dominant.

Fernanda Beigel (2014)

Global North

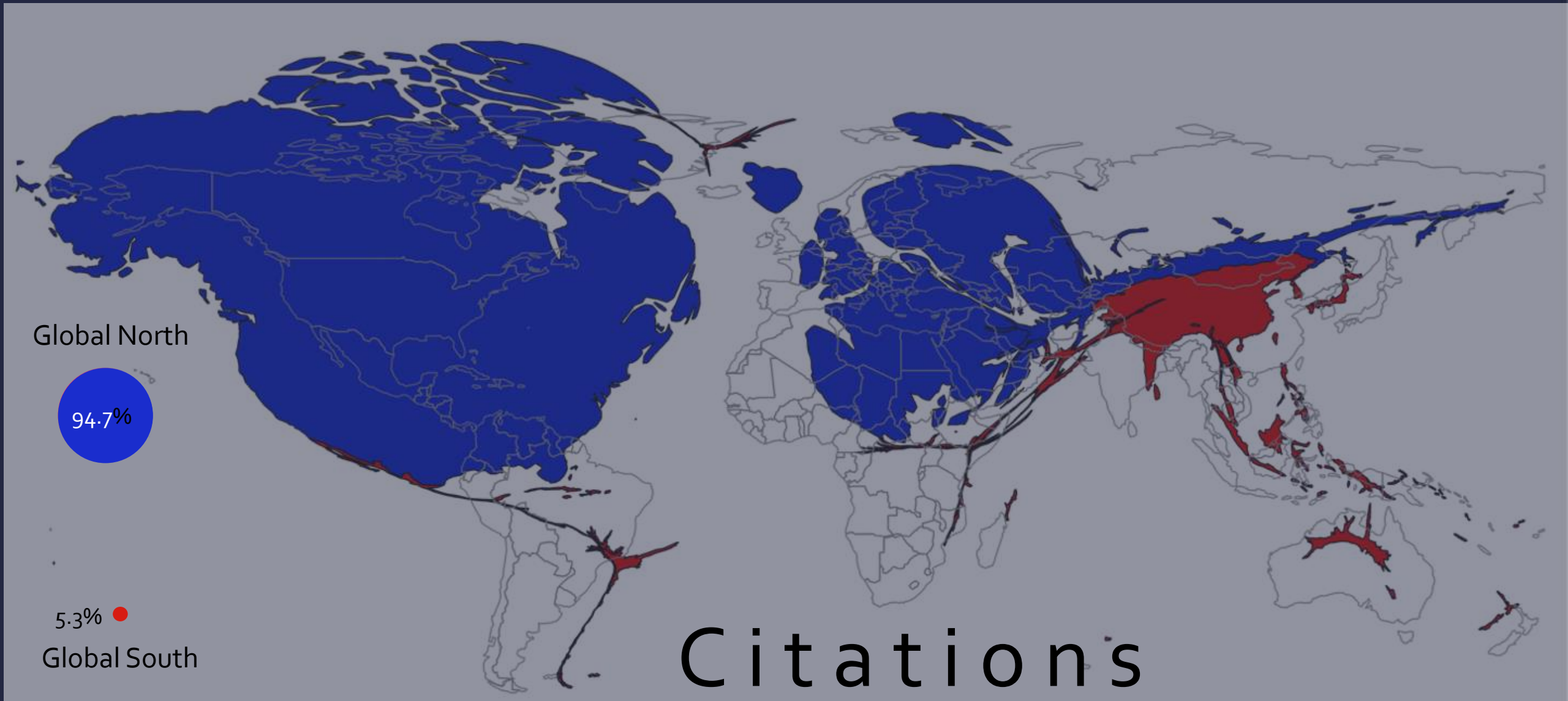


5.3% ●

Global South

Citations

(based on SJR-Scopus)



DOAJ DIRECTORY OF
OPEN ACCESS
JOURNALS

THE DIRECTORY OF OPEN ACCESS JOURNALS

Find open access journals & articles.

Journals Articles

In all fields ▾ **SEARCH**

80
LANGUAGES

125
COUNTRIES
REPRESENTED

11,675
JOURNALS
WITHOUT APCs

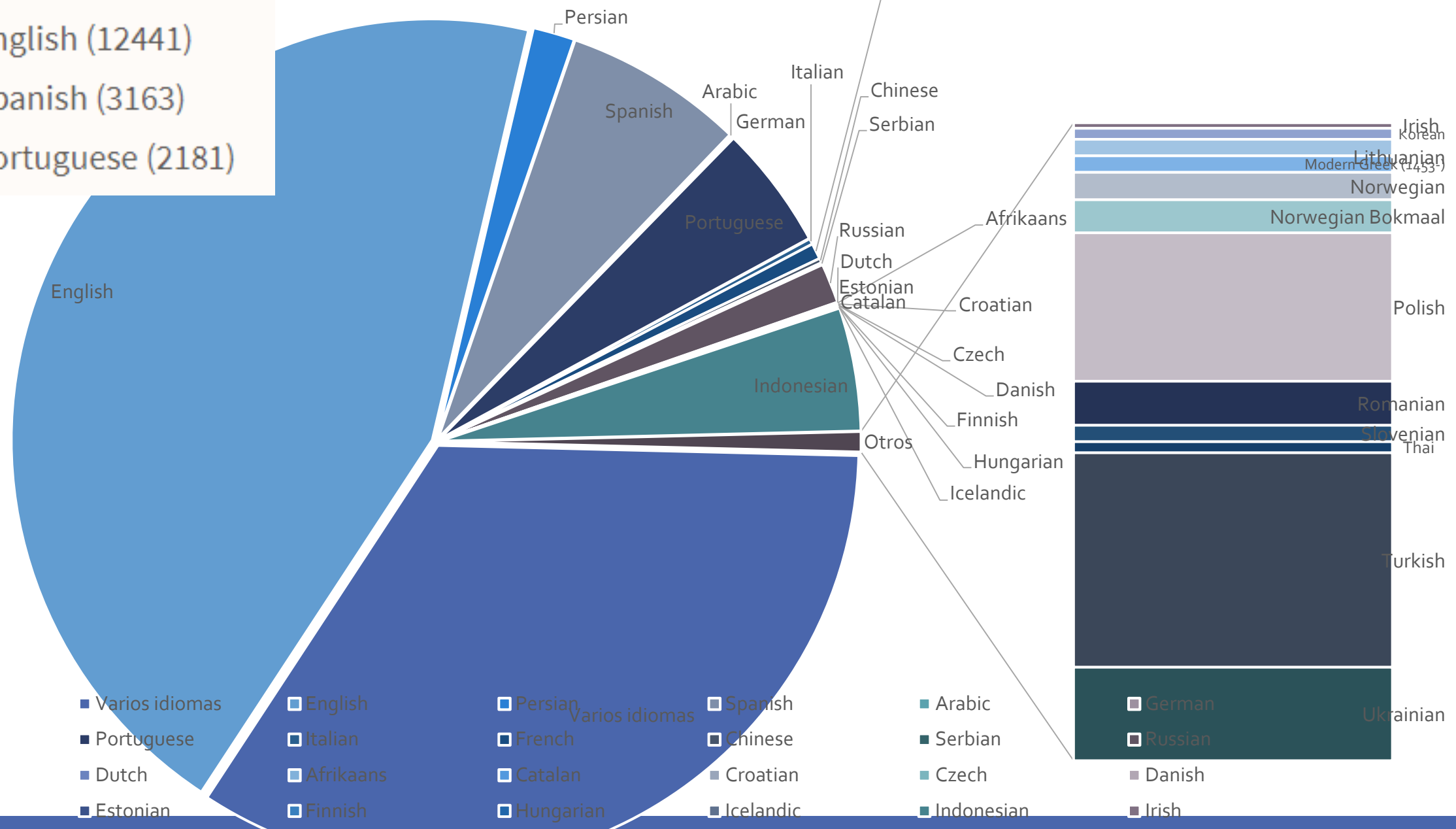
16,217
JOURNALS

5,909,807
ARTICLE
RECORDS

Idiomas de publicación

LANGUAGES

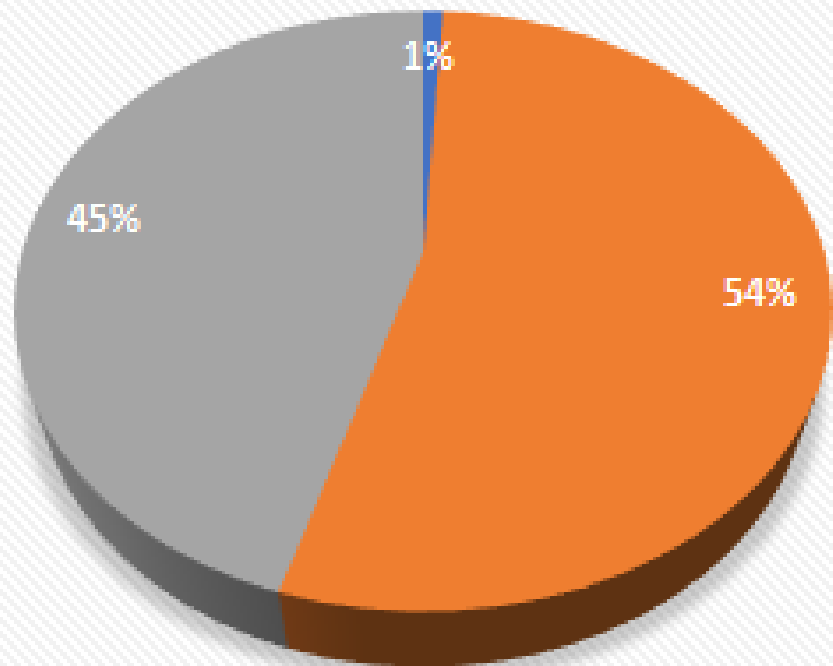
- English (12441)
- Spanish (3163)
- Portuguese (2181)



- Varios idiomas
- Portuguese
- Dutch
- Estonian
- Korean
- English
- Italian
- Afrikaans
- Finnish
- Lithuanian
- Persian
- French
- Catalan
- Hungarian
- Modern Greek (1453)
- Spanish
- Chinese
- Croatian
- Icelandic
- Arabic
- Serbian
- Czech
- Indonesian
- German
- Russian
- Danish
- Irish
- Norwegian Bokmaal
- Polish

- Journals in DOAJ: 15.037
 - English monolingual: 6.689
 - Spanish monolingual: 1.040
 - Portuguese monolingual: 740

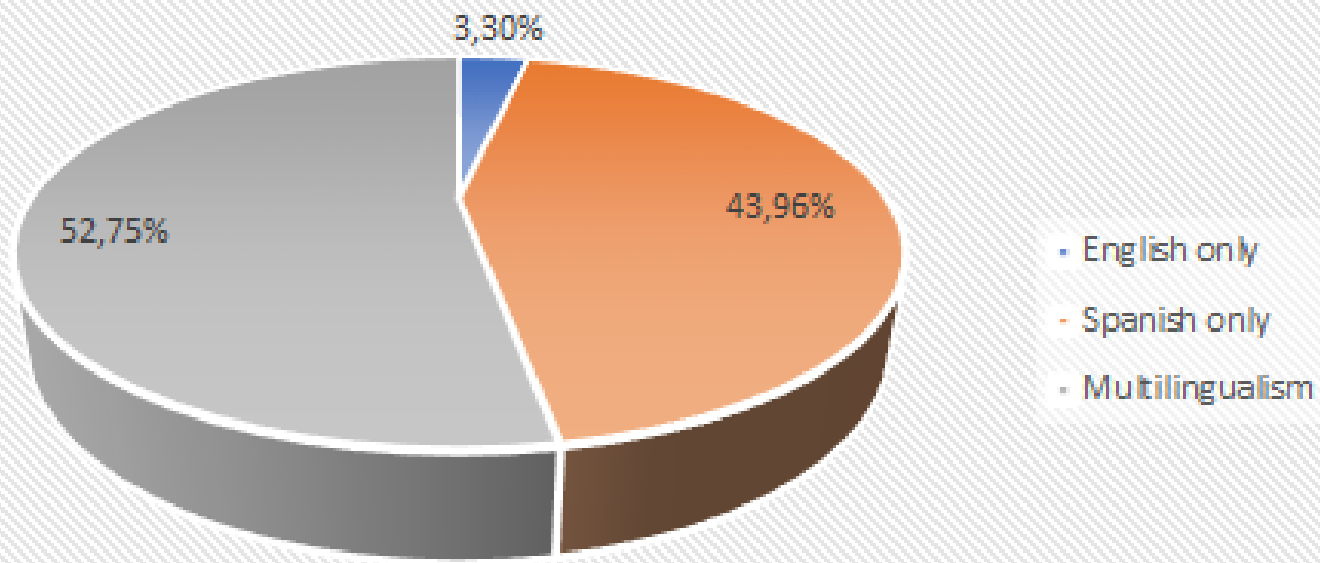
Publications in Argentina by language



■ English only ■ Spanish only ■ Multilingualism

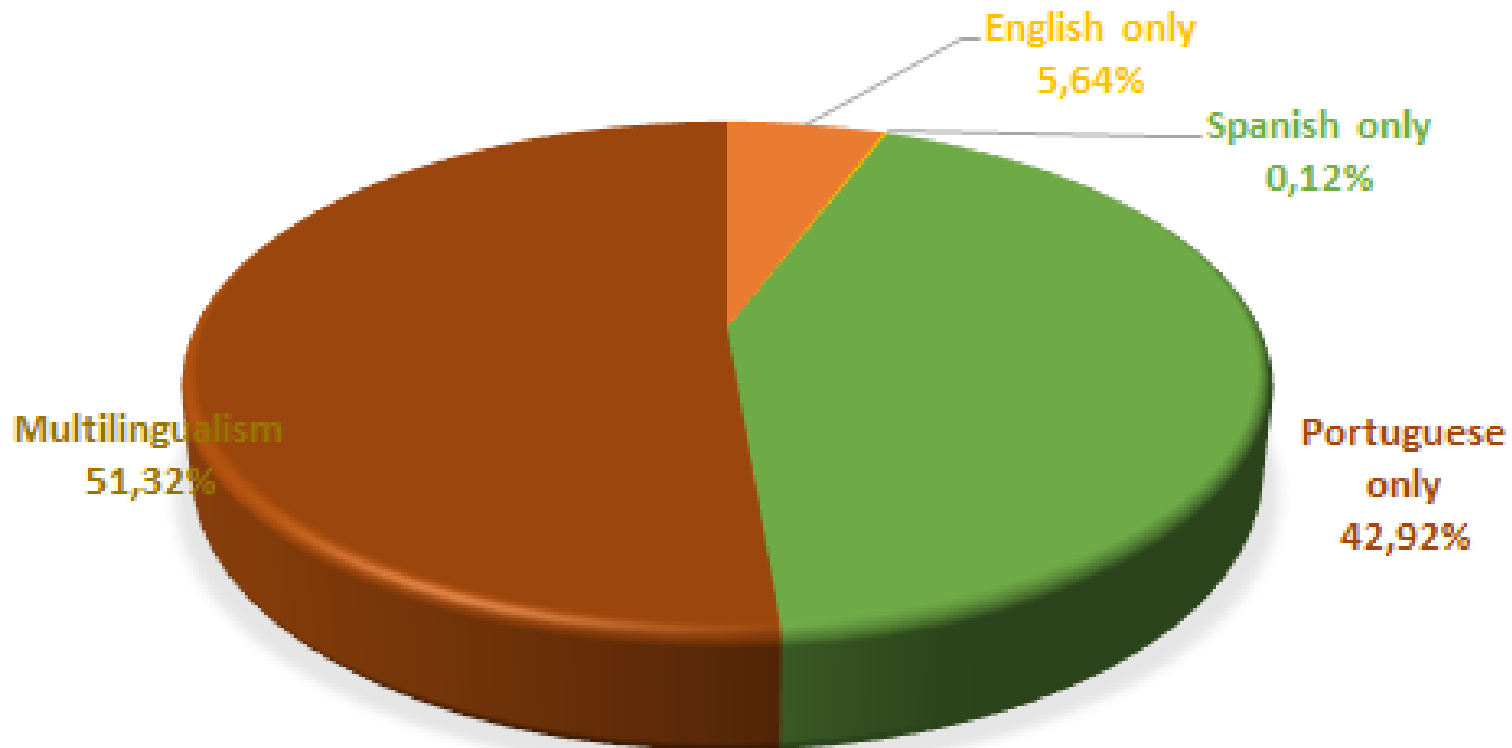
Total journals: Argentina	318
English only	3
Spanish only	171
Portuguese only	0
Multilingual	144

Publications in Mexico by language



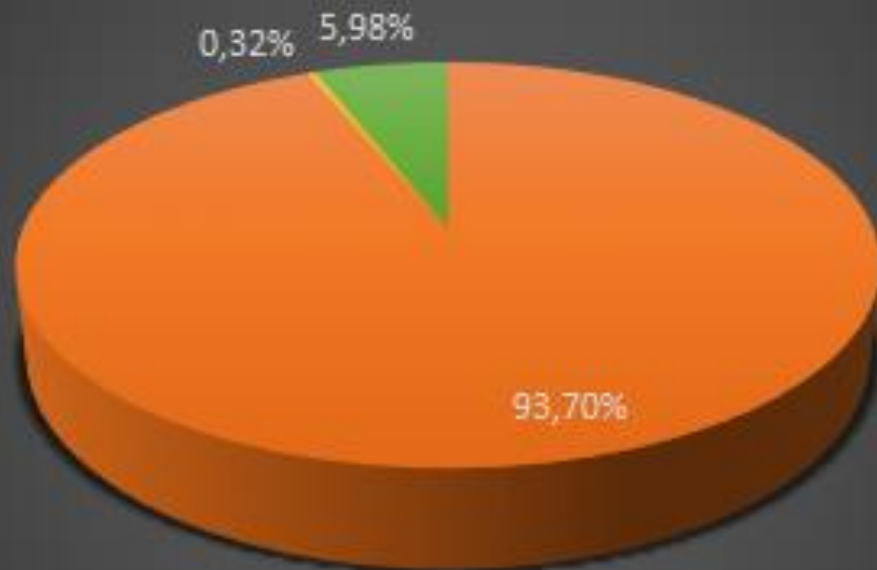
Total journals Mexico	182
English only	6
Spanish only	80
Portuguese only	0
Multilingual	96

PUBLICATIONS IN BRAZIL BY LANGUAGE



Total journals Brazil	1631
English only	92
Spanish only	2
Portuguese only	700
Multilingualism	837

Publications in USA by language



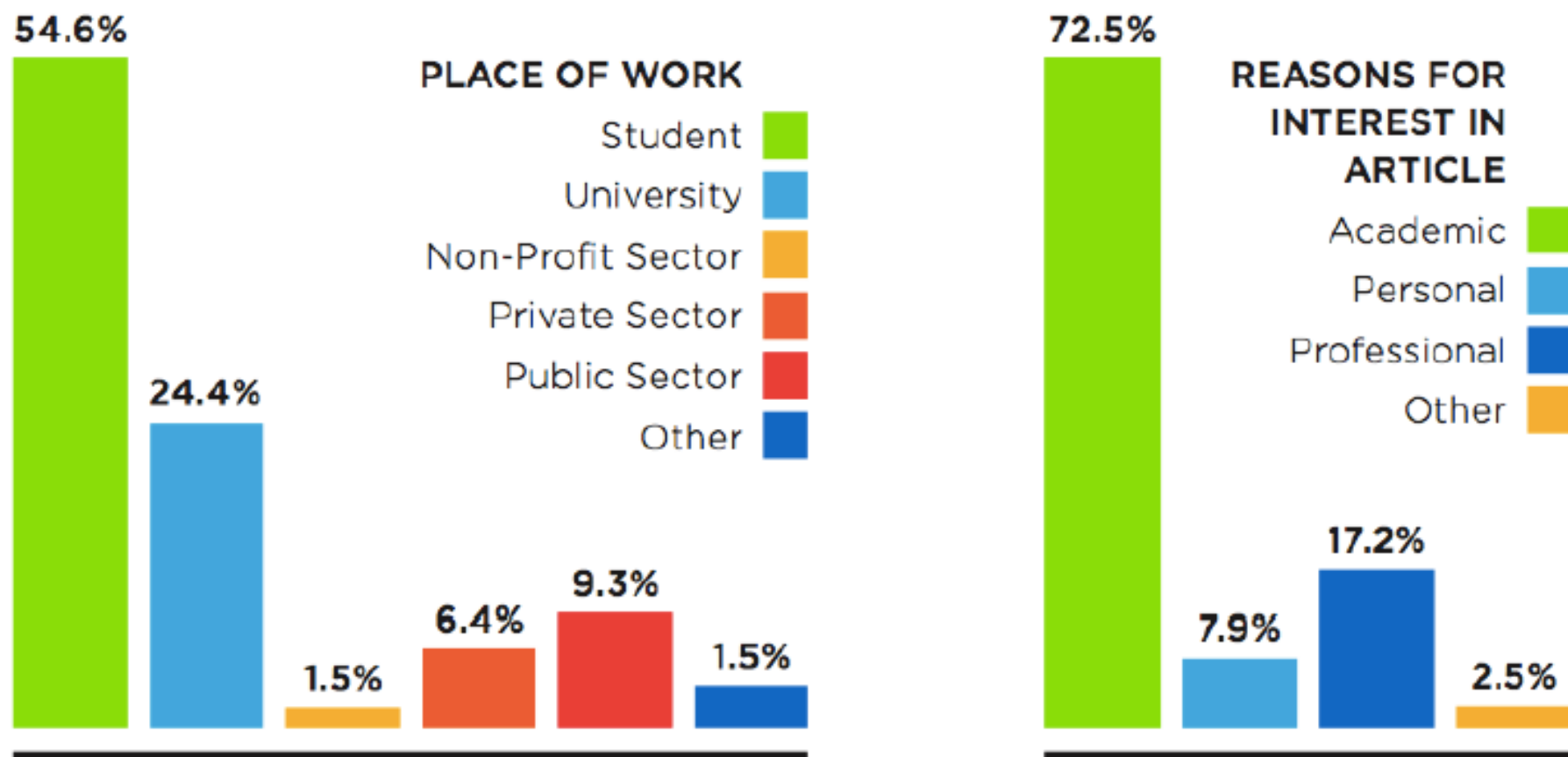
English only Spanish only Multilingualism

Total journals USA	937
English only	878
Spanish only	3
Portuguese only	0
Multilingual	56



**Epistemic justice,
knowledge
democratization**

scielo: individual answers



Non-commercial Open Access Ecosystem in Latin America

Diamond OA journal publishing

~11.000 online journals
62 OA mandates
4 national mandates
(AR, MX, BR, PE)
10 national networks
of institutional repositories

Key factors:

Multilingualism
Cooperation
Networking
Open-source software

Distributed investment

Non-commercial regional
platforms of visibility, edition,
quality assurance, metrics,
aggregation

Non-commercial institutional
**journals portals and repository
networks**
(institutional and country-level)

Non-commercial institutional
journal publishing and repositories
Mainly public **institutions and
universities**

Academy-owned

Non-commercial scholarly communications

latindex

UAEM redalyc.org

SciELO

Scientific Electronic Library Online

CLAGSO
www.clagso.org

LA Referencia
Red de repositorios de acceso abierto a la ciencia

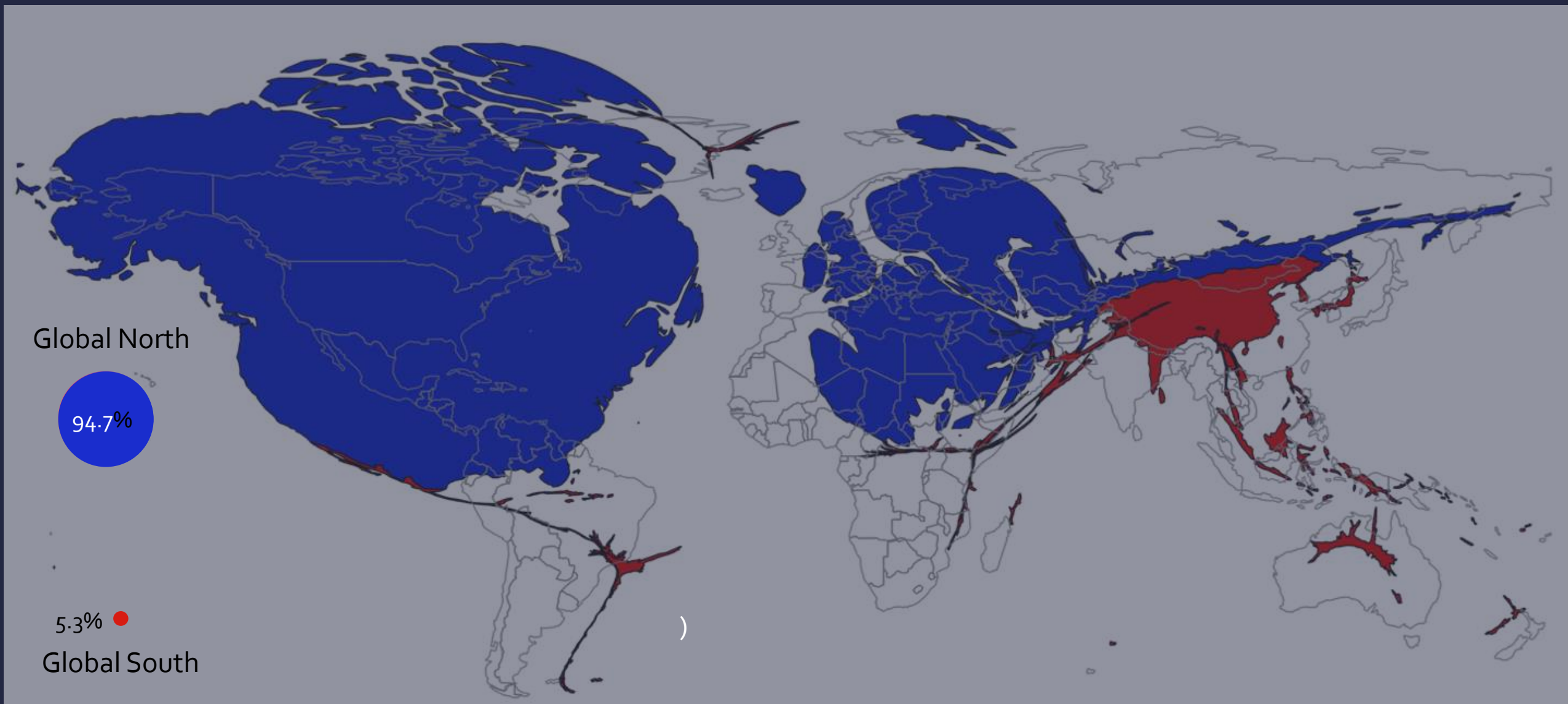
Platform &
workflow by
OJS / PKP

Global North



5.3% ●

Global South





- Redalyc: <https://www.redalyc.org/>
- Scielo: <https://www.scielo.org/>
- LA Referencia:
<https://www.lareferencia.info/en/>



@gimenadelr