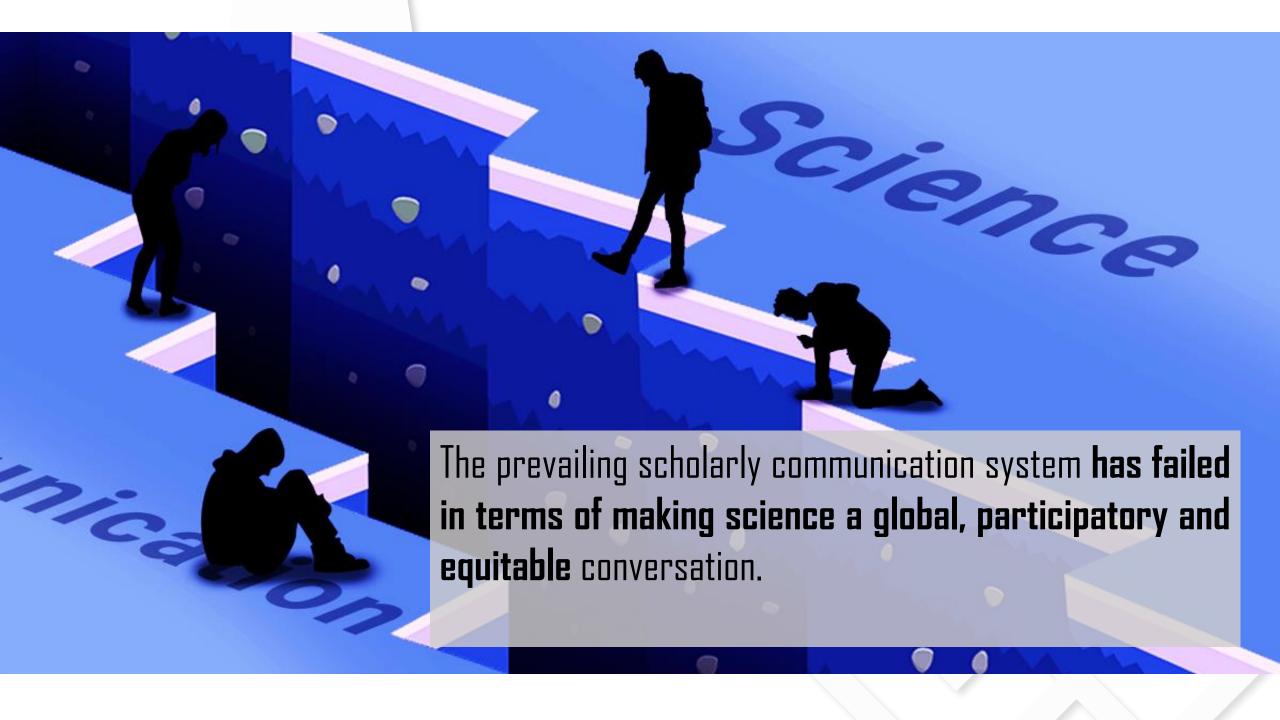
Academy-owned non-profit scholarly publishing: an approach to achieve an inclusive and sustainable Scholarly Communications

Arianna Becerril García







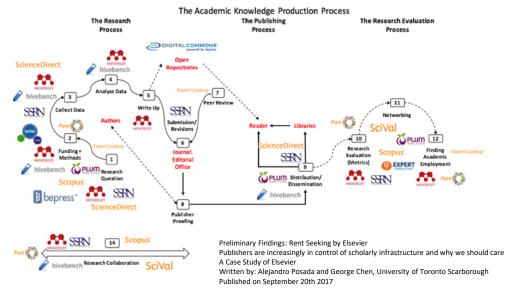
### **CONTEXT:** Consolidation of commercial publishing

17 years after BOAI we should acknowledge that the goal has not been achieved and the ways to attain the goal have been ignored, and even more ...

### **Budapest Open Access Initiative**

Open access to peer-reviewed journal literature is the goal. Self-archiving (I.) and a new generation of open-access journals (II.) are the ways to attain this goal.

### Increasing control of the knowledge production circuit

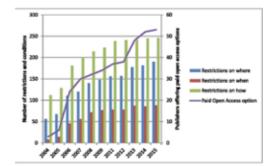


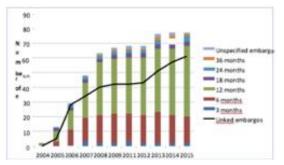
### Publishers' good financial health



Reed Elsevier: Goodbye to Berlin - The Fading Threat of Open Access (Upgrade to Market-Perform) Claudio Aspesi, Helen Luong

### Restrictions on the rise: restrictions on where, when or how to deposit





### CONTEXT: Exclusive and deficient research assessment

It is critical to understand that the Journal Impact Factor has a number of well-documented deficiencies as a tool for research assessment.

> Quantitative metrics cannot replace qualitative evaluation, nor can they make the contributions of local research visible.

The best ranked publications are usually for-profit and the research assessment systems reward publishing in them.

### CONTEXT: ineffective transition to the digital age

346 years later ... Find the differences

Newton, Isaac (1671) New theory about light and colors. Philosophical Transactions, 6(80) (3075)

Numb.80.

### PHILOSOPHICAL TRANSACTIONS.

February 19. 16.

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The CONTENTS.

A Letter of Mr. Ilaac Newton, Mathematick Professor in the University of Cambridge; containing his New Theory about Light and Colors: Where Light is deslared to be not Similar or Homogeneal, but consisting of dissormary, some of which are more refrangible than others: And Colors are assimilated by Dualification of Light, derived from Refractions of natural Bodies, (as its generally betweed;) but Original and Connate properties, which in divers rays are divers: Where several Observations and Experiments are alleaged to prove the faid Theory. An Accompt of some Books: I. A. Description of the EAST-INDIAN COASTS, MALABAR, COROMANDEL, CEYLON, &c. in Dutch, by Phil. Baldaws. II. Antonii le Grand INSTITUTIO PHILOSOPHE, secundum principia Renati Des-Cartes; novâ methodo adornata & explicata. III. An Essay to the Advancement of MUSICK; by Thomas Salmon M. A. Advertiscement about Thwon Smyrnwus. An Index for the Trails of the Tear 1671.

A Letter of Mr. Isaac Newton, Professor of the Mathematicks in the University of Cambridge scontaining his New Theory about Light and Colors: fent by the Author to the Publisher from Cambridge, Febr. 6. 16%; in order to be communicated to the R. Society.

To perform my late promife to you, I shall without further ceremony acquaint you, that in the beginning of the Year 1666 (at which time I applyed my self to the grinding of Optick glasses of other figures than Spherical,) I produced me a Triangular glass-Prisme, to try therewith the celebrated Phenemena of G g g g.

Hassano Olazaria, S. (2017). Regionalismo abierto y nueva integración, quel modelo genera más integración.

Regionalismo abierto y nueva integración,
¿qué modelo genera más integración

Susana Herrero Olarte<sup>1</sup>

Recibido: 04/10/2016 | Aceptado: 26/04/2017

comercial en Sudamérica?

### Resumen

Sudamérica ha experimentado recientemente dos modelos de integración en el proceso de globalización económica. En los noventa, el regionalismo abierto priorizaba el crecimiento del comercio y promovía para ello el libre mercado y la mínima intervención del Estado. En el siglo XXI, la nueva integración proponía un comercio intrarregional capaz de crecer y generar beneficios más allá de los económicos apoyándose para ello en la UNASUR. Ambos modelos conviven en el discurso y podrían llegar a complementarse en la práctica pero, más allá de la teoría ¿cuál ha generado una mayor integración comercial? La aplicación de varios índices muestra cómo el intercambio entre países sudamericanos era mayor en los noventa que en el siglo XXI por la irrupción de China en el mercado, que ha absorbido en los últimos años parte importante del comercio regional, lo que invita a considerar que el regionalismo abierto ha generado más integración comercial que la nueva integración, seducida por las oportunidades desde el exterior.

Palabras clave: Regionalismo abierto; nueva integración; comercio intrarregional; integración comparada; UNASUR.

### Abstract

Open Regionalism and New Integration, What Model Generates More Trade Integration In South America?

South America has recently experienced two models of integration in the process of economic globalization. In the nineties, opened regionalism prioritized growth in trade through free market and the minimum governmental intervention. In the 21st century, the integration model known as new integration proposed to raise intraregional generating benefits beyond the economic ones. Both models coexist and even they could complement each other but beyond the theory, which has generated a major commercial integration? The application of several indexes shows how the exchange between South American countries was major in the nineties that in the 21st century because of the irruption of China on the market, which it has absorbed in the last years part of regional trade. It invites to think that opened regionalism has generated more commercial integration than new integration, seduced by the opportunities from abroad.

Keywords: Open regionalism; new integration; intraregional trade; compared integration; UN-ASUR.

Herrero, Susana (2017) Regionalismo abierto y nueva integración (...) Cuadernos Geográficos, 56(2).

Centro de Investigaciones Económicas y Empresariales (CIEE). Facultad de Ciencias Económicas y Empresariales (FACEA) Universidad de las Américas, Quito, Ecuador, olartesassana@hotmail.com

### **Different paradigms to address Open Access**

### Focused on commercial publishers

Aim to eliminate pay-to-read business model



### Open, scholarly-led, non-profit communication system

Neither a cost for readers nor for authors

### Different resultant subsystems of science communication

- Provide the strength of the
- How could they coexist if the big funding flow is directed unequally?
- If one subsystem is altered to emulate other, new concepts, rules and values will appear with side effects varying from the weakening of the original subsystem's strength to its complete disruption and disappearance.

### Analyzing scientific collaborations



Based on Scopus

Based on Redalyc



What role will the academy play to face this challenge?

What will be the role of libraries?
What will be the role of researchers?
What will be the role of funders?
What will be the role of platforms?
What will be the role of publishers?

The cost of communicating scientific research is a tiny fraction of the cost of research, somewhere between 1% and 2%.

So why should we ask that particular phase of the research cycle to obey financial rules couched in terms of "sustainability" while the **overwhelming part of scientific research has to be constantly subsidized?** 

Jean-Claude Guédon

# Academy-owned publishing seems not to exist in the mainstream databases

### **Academy-owned journals in WoS**



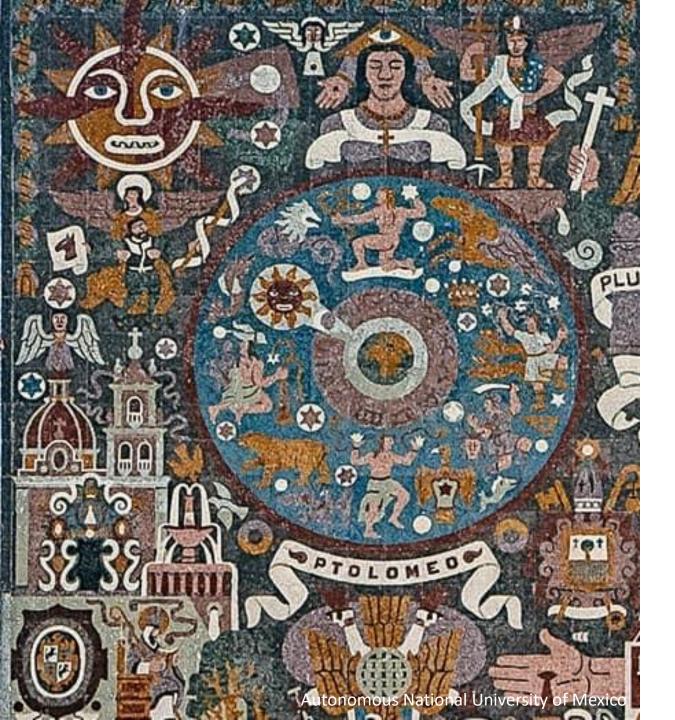
6,3% Science Citation Index; 14,6% Social Sciences Citation Index; 33.8% Arts & Humanities Citation Index.

Repiso, Rafael; Orduña-Malea, Enrique; Aguaded, Ignacio (2019). "Revistas científicas editadas por universidades en *Web of Science*: características y contribución a la marca universidad". *El profesional de la informa-ción*, v. 28, n. 4, e280405. https://doi.org/10.3145/epi.2019.jul.05

### **Academy-owned journals in Scopus**



CiteScore2019



Latin America has created and maintains a non-commercial structure where scientific publishing belongs to academic institutions and not to large publishers

Every institution supports journals that are driven by their own faculty members, and then that content is made available in OA.

Everyone gets benefit from everyone's investment.





A fee has not been included neither for authors nor for readers in the regional editorial tradition.

### Open Access Environment in Latin America

### **Key factors:**

Cooperation
Networking
Crowdsourcing
Open source software
In-house software
Free software
International
collaboration

Nonprofit platforms of visibility, edition, quality assurance, metrics



Nonprofit institutional journal portals and repositories

Mainly public institutions

Nonprofit institutional journal publishing

Mainly public institutions



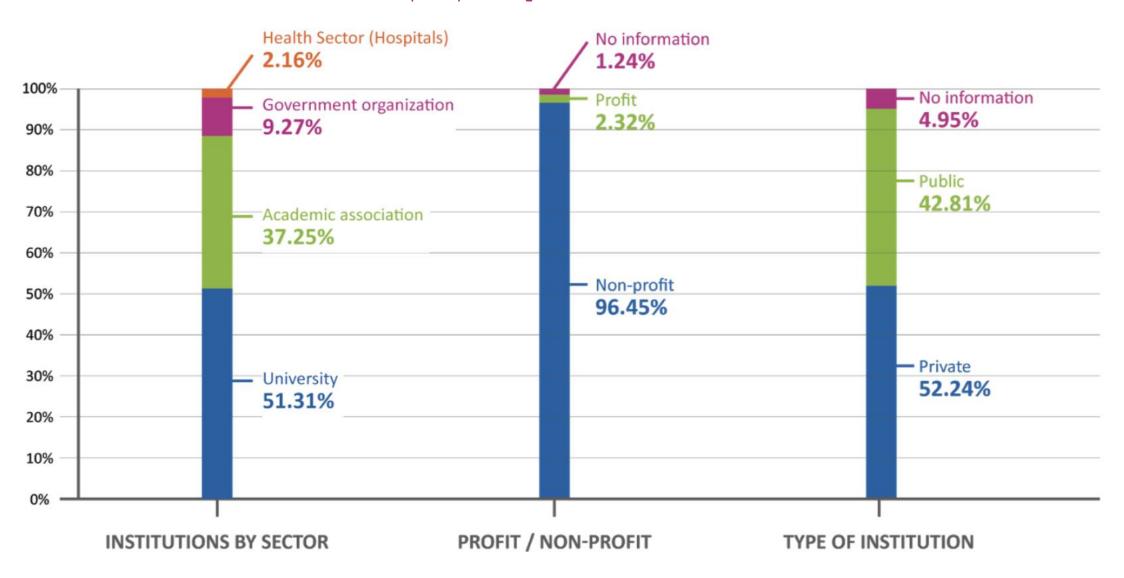
3.321 journal installations



Scholarly-led scientific communication system

Nonprofit, mainly public – funded scientific communication system

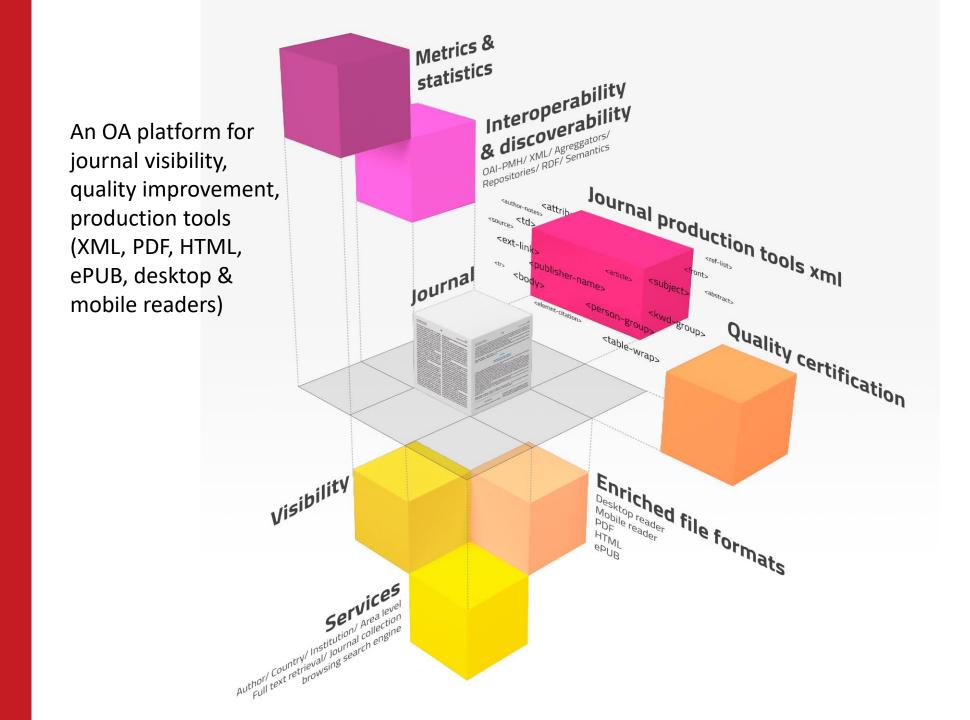
### Who sustain the non-profit publishing in Latin America?





An infrastructure that supports academy-owned non-profit scholarly publishing by providing technology and sharing knowledge that contributes to the sustainability of non-commercial Open Access

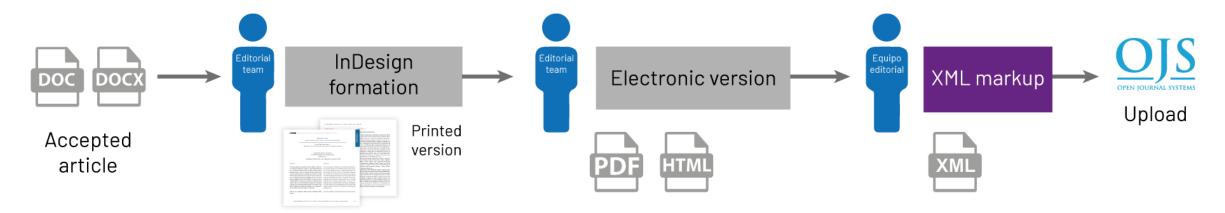
# redalyc.org





Redalyc AmeliCA

### Traditional article processing

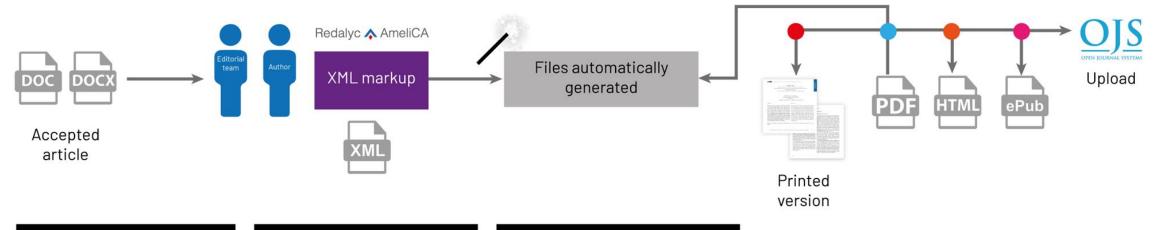


60 - 65 EUR / article

11 - 13 hr / article

Production costs

### Article Processing with Redalyc/AmelicA as infrastructure



6 -7 EUR / article

2 - 2.5 hr / article

89% Cost savings



Open Data

Replicability

necessary condition in science



Mathematical expressions tagging with MathML

XML tagging of tables and data

XML tagging of annexes and supplementary material



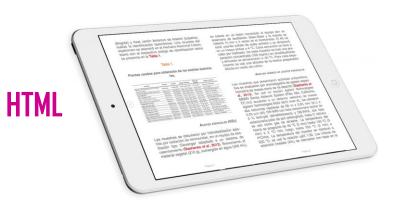




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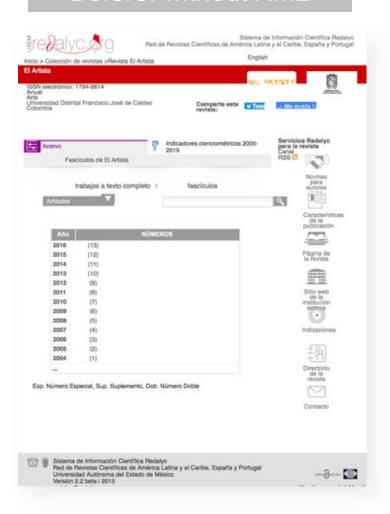


ePUB

**XML JATS 4R** 

Self-classification of information
Improved reading experience
Illustration of items
Intelligent information retrieval

### Before: without XML



### After: with XML



# redalyc.org

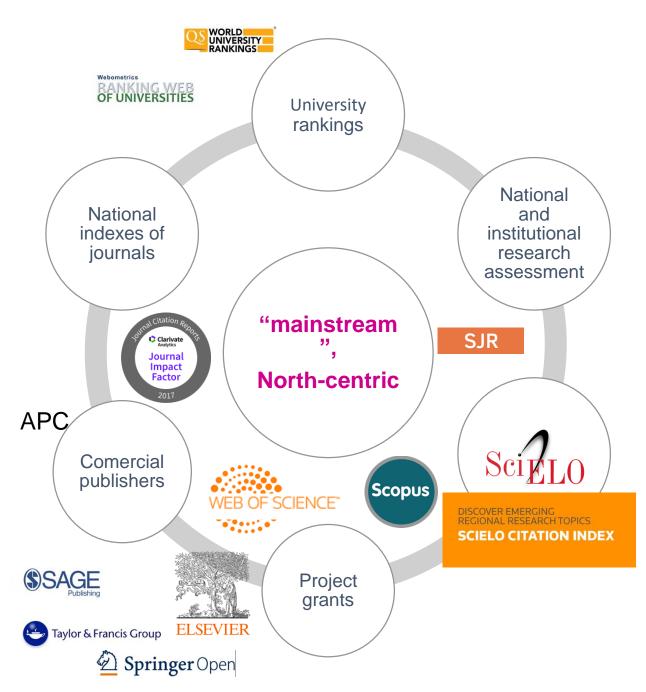


# Unfortunately ...



# **Approach 1:** Dependent on **Mainstream-metrics** and Commercial Open Access

- Research assessment based on IF (JCR) or SJR (Scopus) as the most important metrics.\*
- Favours APC bussiness model (inherited from the Global North becoming attractive for Latin American journals)
- Language criteria that disqualify publishing in local languages



<sup>\*</sup>Scielo's agreement with Clarivate Analytics to generate Scielo Citation Index

# Approach 2: Scholarly-driven Scientific Communication and Non-commercial OA

### Scholarly-driven publications and repositories

This approach seeks to strengthen publishers inside universities by empowering editors with technology and training in favor of the sustainability of OA

### Non-commercial OA

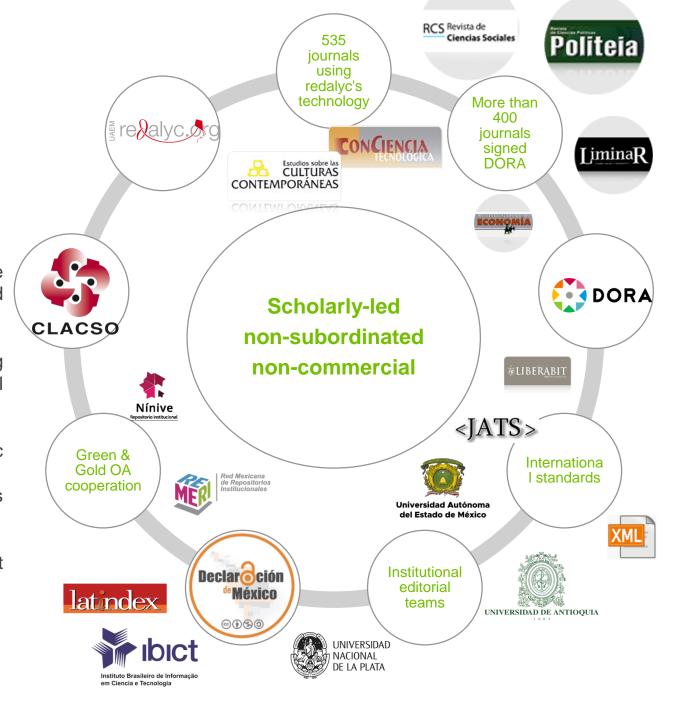
-More than 500 journal publisher institutions adopting tools provided by Redalyc to keep the non-commercial nature of their processes and to avoid APCs.

### Research Assessment

- Efforts towards finding a better way to assess scientific research (Redalyc metrics, UdeA metrics)
- More than 600 journals signed DORA (Redalyc's additional mandatory requirement)

### Intellectual Property

- Publishers allow authors to hold the copyright without restrictions



### So, we had to act in response...

A decision made to take advantage of the regional ecosystem, technology, knowledge and experience of multiple organizations so that the **scholarly communication remains in control of the academy and that avoids losing subsidies** by choosing a shift to address Open Access with commercial mechanisms such as the APC.





























AmeliCA is a **multi-institutional community-driven** 

initiative supported by UNESCO and led by Redalyc and

CLACSO, that arises in response to the international,

non-comercial solution for Open Knowledge.

regional, national and institutional contexts of Open Access,

which seeks a cooperative, sustainable, protected and















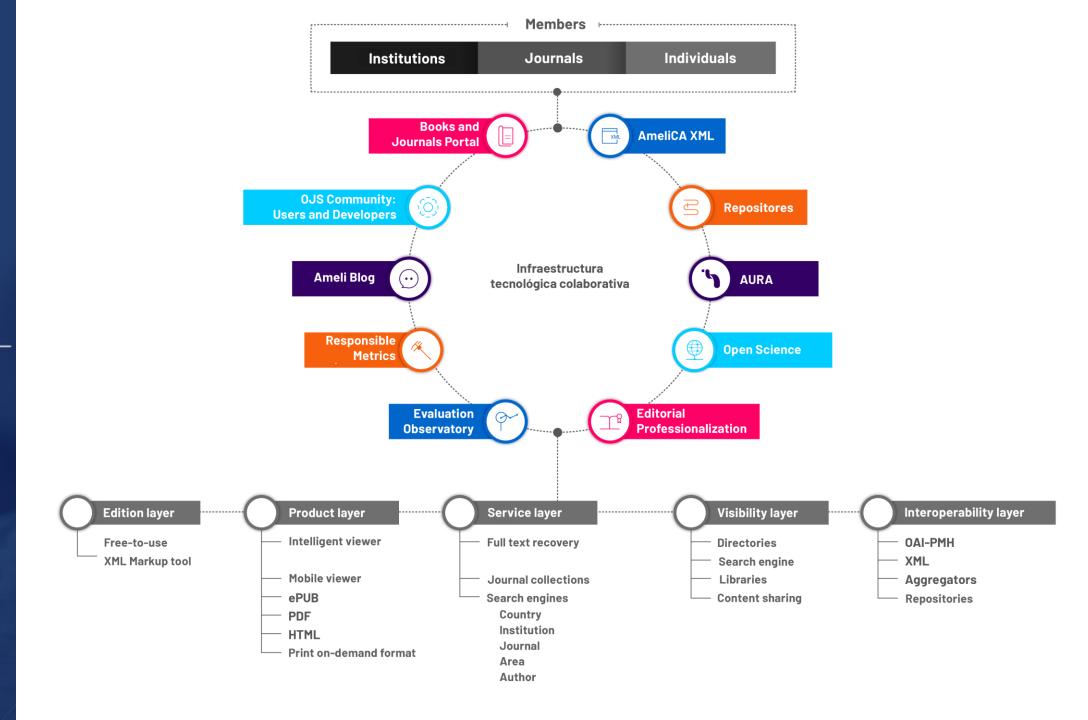












### Journals participating in this model have the following:



Peer-review and editorial quality



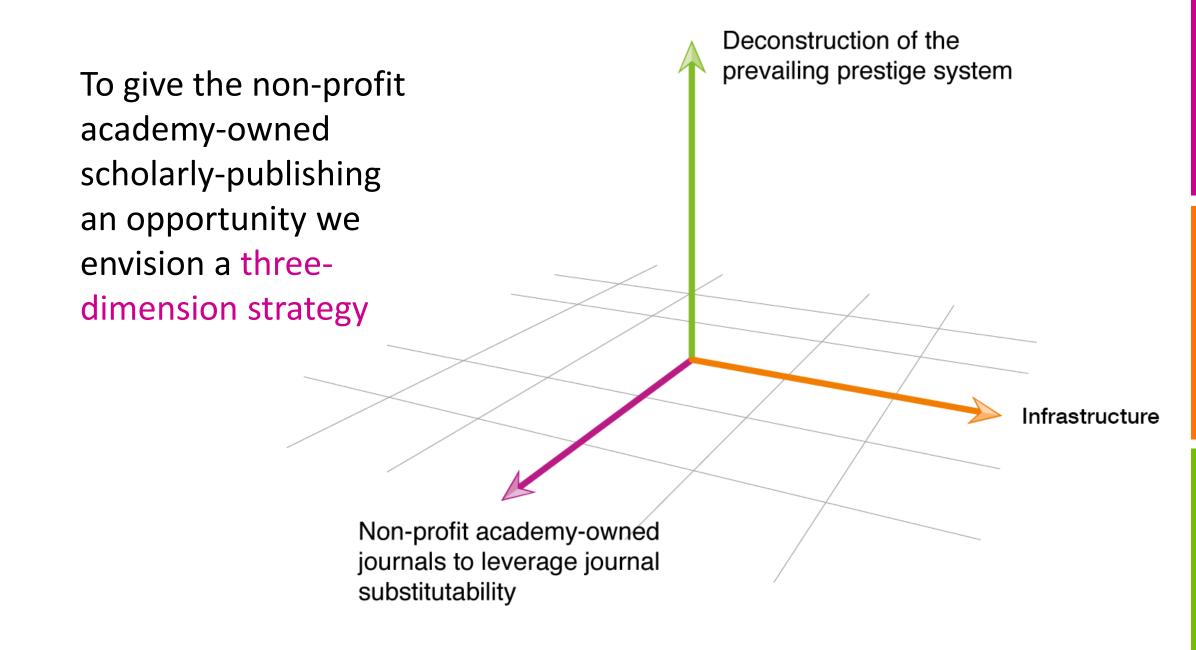
Open Access policy free of publishing or processing costs (APC)



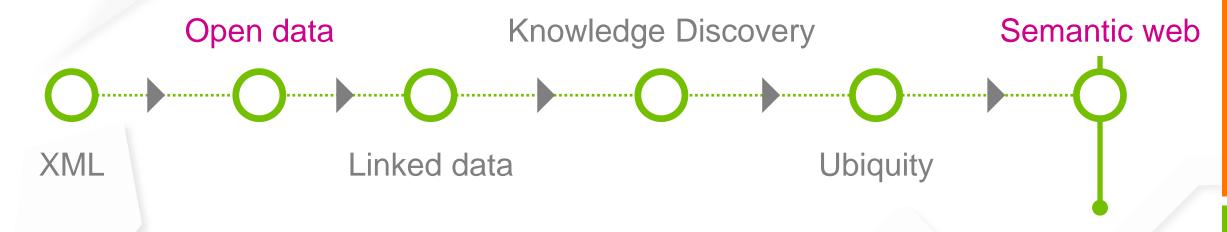
Digital publishing technology (XML JATS)



A vision to overcome the current assessment of science based on the Impact Factor aligned to the Declaration on Research Assessment (DORA)

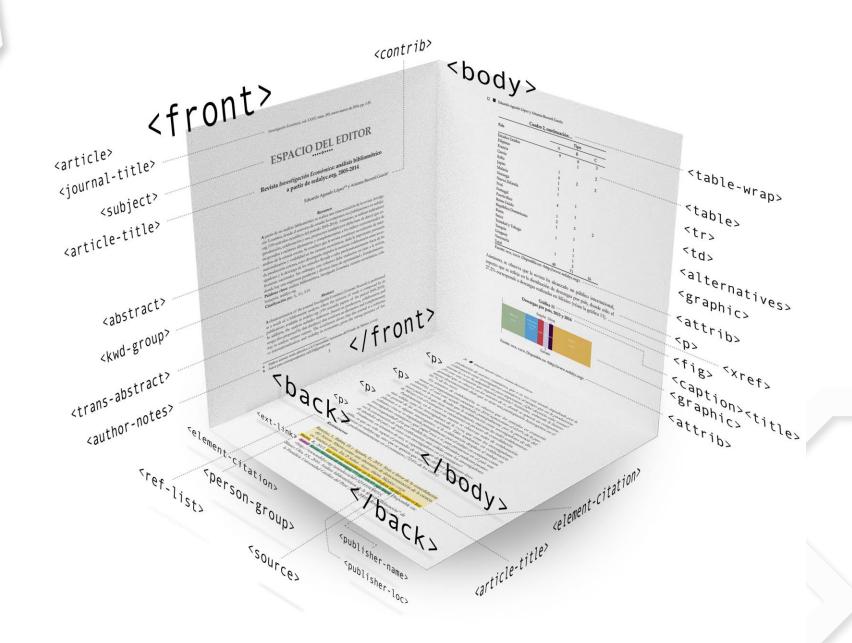


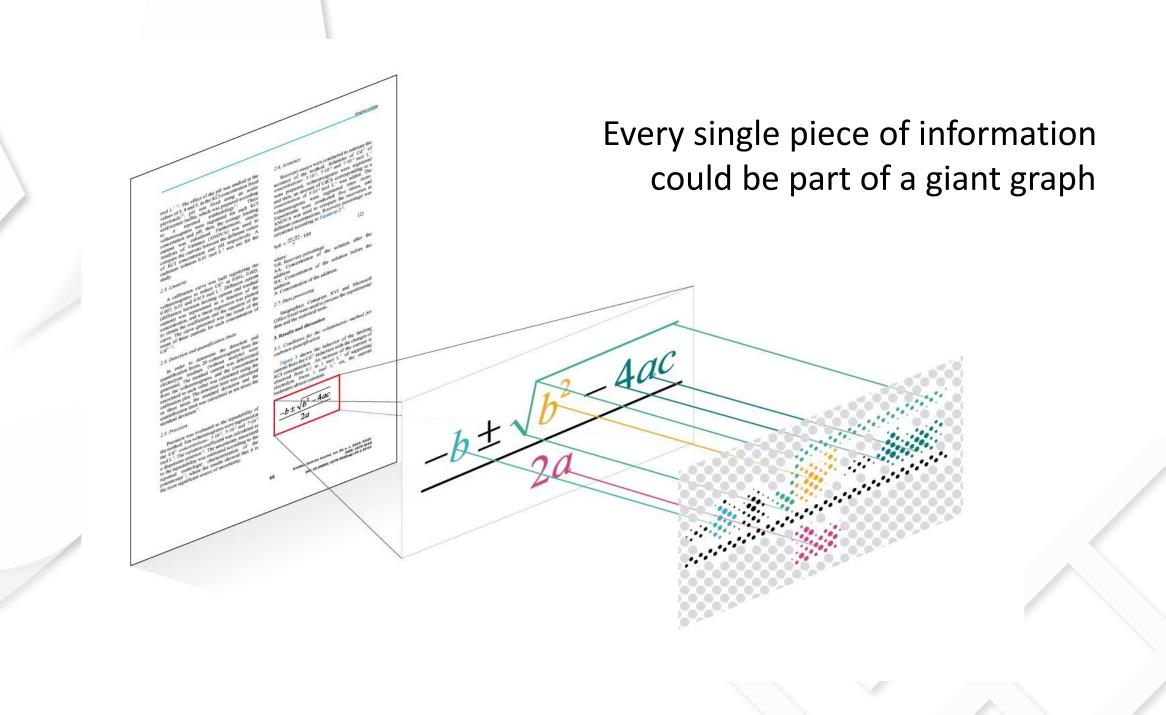
### The potential of Redalyc/AmeliCA model



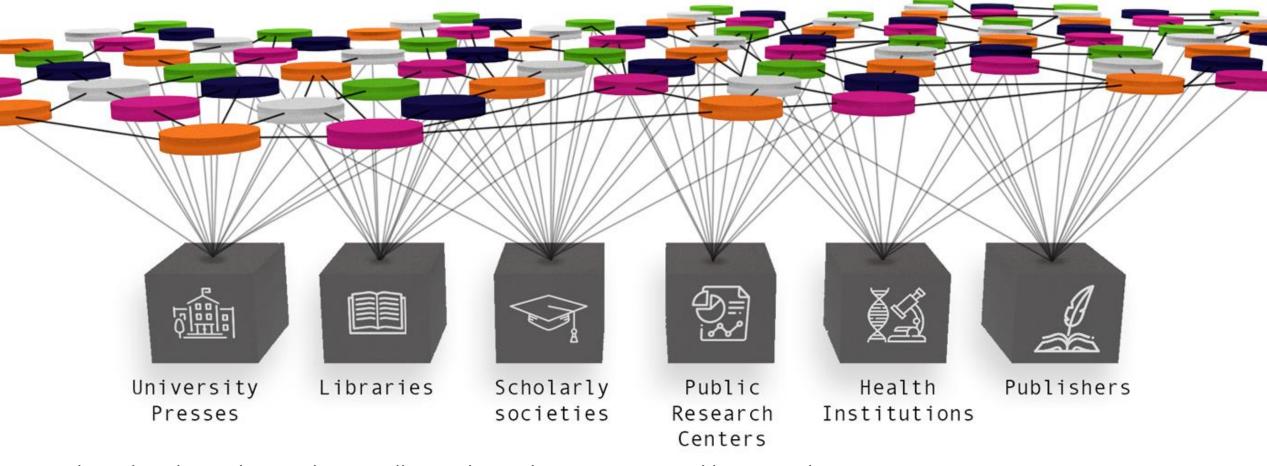
Technology and Artificial Intelligence for a participatory and inclusive science ecosystem.

Organic visibility, discoverability and impact of science





### An upper layer of linked knowledge could be built



Aligned to the Web Foundation call on policymaker to reverse and leverage the power of technology to fight inequality:

Accelerate progress towards universal access Level the playing field It is possible to achieve a cooperative values-based infrastructure that benefits scholarly communications worldwide.

Academy has the power to take back control (or keep it) of the whole knowledge generation life-cycle.

Publishing in control of academia can create a counterweight to the exclusionary system that prevails today.

## Thank

Arianna Becern García arianna.becerril@gmail.com

http://www.redalyc.org/autor.oa?id=25

http://orcid.org/0000-0003-0278-8295

@ariannabec













For a non-profit academy-owned scholarly publishing to preserve and sustain the open nature of science communication