

Open Science - For and With Communities

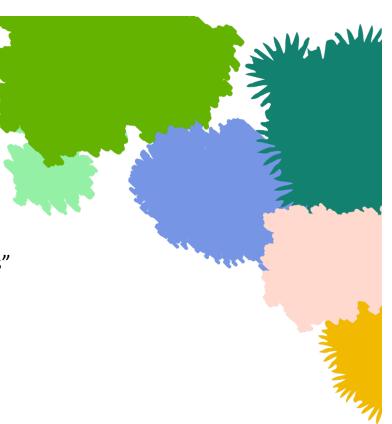
Open Research: A Vision for the Future RIOT Science Club, March 2, 2021

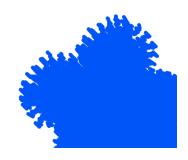
Leslie Chan, Knowledge Equity Lab University of Toronto Scarborough @lesliekwchan @knowledgeequitylab @ocsdnet @knowledgegap

Agenda

- Situating my interests and my biases
- Share some lessons learned about the limits and potentials of "open science/ open research"
 - Current concerns mostly on "technicality" and "standards"
 - Not sufficient attention to the political economy of knowledge
- The World I like to see and some actions to take
 - The need for open infrastructure and governance that enable epistemic diversity
 - Knowledge production is always political and never far from the broader questions of equity and sustainability
 - Local and global collective endeavour built on solidarity and cooperation, instead of individualism and competition









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The University of Toronto has been ranked 18th in the world overall in the prestigious *Times Higher Education* 2021 World University Rankings.

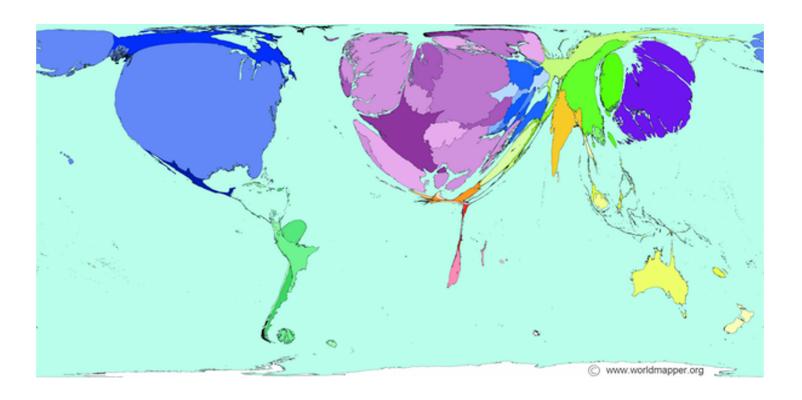




Situating my biases

Posted on September 3, 2020

Unequal contribution and participation in Knowledge Production



Chan L, Kirsop B, Arunachalam S (2011) Towards Open and Equitable Access to Research and Knowledge for Development. PLoS Med 8(3): e1001016. doi:10.1371/journal.pmed.1001016

http://127.0.0.1:8081/plosmedicine/article?id=info:doi/10.1371/journal.pmed.1001016





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Budapest Open Access Initiative

From Wikipedia, the free encyclopedia

The **Budapest Open Access Initiative** (**BOAI**) is a public statement of principles relating to open access to the research literature, [1] which was released to the public February 14, 2002. [2] It arose from a conference convened in Budapest by the Open Society Institute on December 1–2, 2001 to promote open access – at the time also known as *Free Online Scholarship*. [3][4] This small gathering of individuals is recognised as one of the major defining events of the open access movement. [1] On the occasion of the 10th anniversary of the initiative, it was reaffirmed in 2012 and supplemented with a set of concrete recommendations for achieving "the new goal that within the next ten years, OA will become the default method for distributing new peer-reviewed research in every field and country."[5][6]

Contents [hide]

- 1 Initiative
- 2 Definition of open access
- 3 Signatories
- 4 Funding
- 5 See also
- 6 References
- 7 External links



Participants at meeting in Budapest, December 1, 2001

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Celebrating a decade of OPEN ACCESS

A logo celebrating the 10th
anniversary of the Budapest Open
Access Initiative in 2012, featuring the
Széchenyi Chain Bridge in Budapest.

Could Open Access and Open Science change the current power structure of global scientific production and dissemination? **Periphery** Could openness creates the potential for new spaces for collaboration and co-creation Centre of knowledge? **Periphery**

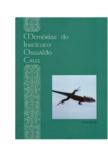
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What's new?

African Crop Science Journal, Vol. 28 (03)
Rwanda Public Health Bulletin, Vol. 02 (01)
International Journal of
Reproductive BioMedicine, Vol. 18 (06)
Zoological Research, Vol. 41 (03)

scientists and librarians. It is a collaborative initiative between Bioline Toronto (management Environmental Information, Brazil (host computer and software development). The project is Jnit at the University of Toronto Scarborough and by the support of sponsoring libraries and p & sponsorship page for more details.

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347666

full text downloads in Nov 2020

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Veci-



Dr. James Tumwine. Professor of Pediatrics and Child Health. Founder and Editor in Chief of African Health Sciences, Makerere University and Kabbalah University, Uganda

Health Equity and Knowledge Production: African Health Sciences

https://knowledgeequitylab.ca/podcast/

Early assumptions

- Network is flat
- Open Access is key
- Participation is democratized and non-market driven
- Knowledge as a public good
- Scaling up is desirable and easy
- N-S and S-S flow of knowledge

Lessons thus far

- Digital Networks replicate and reinforce existing hierarchies
- Infrastructure is never neutral
- Concentration of Power
- Governance is opaque and non-transparent
- "Code is Law"
- Access is not enough
- The need to understand structural and institutional inequities built on racial and colonial practices

Intersecting dimensions of Openness

Contextualizing Openness

Edited by Leslie Chan
Angela Okune, Rebecca Hillyer, Denisse Albornoz and Alejandro Posada
University of Ottawa Press

Openness to Publications and Data

Openness to Society

Openness to Excluded Knowledges

Open Science Beyond Open Access: For and with communities

A step towards the decolonization of knowledge





Prepared for the Canadian Commission for UNESCO By Leslie Chan, Budd Hall, Florence Piron, Rajesh Tandon and Lorna Williams Ottawa, July 2020











https://www.idrc.ca/en/book/contextualizing-openness-situating-open-science

http://doi.org/10.5281/zenodo.3946773



- 12 projects from Latin America, Middle East, Africa and Asia
- Critical approach to Open Science
- Key output: <u>Open and Collaborative Science in Development</u> <u>Manifesto</u>





"THROUGH WATER": PROMOTING AND COMMUNICATING OPEN & COLLABORATIVE RESEARCH WITH A PUBLIC EXHIBITION



ALL THAT GLITTERS IS NOT GOLD: RETHINKING OPENNESS FROM THE AFFECTED POPULATION OF A CYANIDE SPILL IN JÁCHAL, ARGENTINA

PROTECTING AND PROMOTING INDIGENOUS PEOPLES RIGHTS IN ACADEMIC RESEARCH PROCESSES: A GUIDE FOR COMMUNITIES IN SOUTH AFRICA



THE SUSTAINABLE DEVELOPMENT GOALS (SDGS): A CALL FOR ACTION RESEARCH AT THE NATURE CONSERVATION CENTER AT AUB (AUB-NCC)



LESSONS FROM COLOMBIA: TYING OPEN SCIENCE WITH LOCAL DEVELOPMENT NEEDS



Situated Openness





Visible

"openness" is not a binary condition, but is highly situational, contingent, and dependent on the positionality, privilege and contexts of the knowledge makers

> (See the works of feminist philosophers of science Donna Haraway, Sandra Harding, Patricia Hill Collins and more)



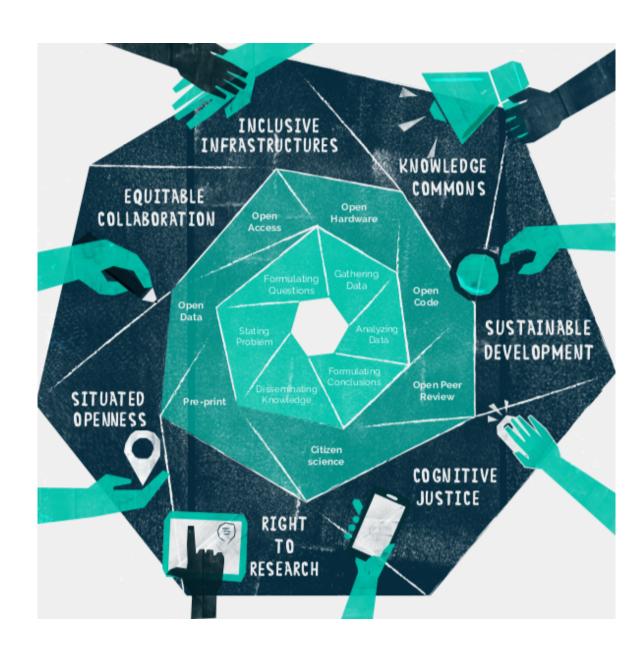
Inclusive Research Infrastructures

"tools, platforms, networks and other socio-technical mechanisms that deliberately allow for multiple forms of participation amongst a diverse set of actors, and which purposefully acknowledge and seek to redress inequities in a given context"

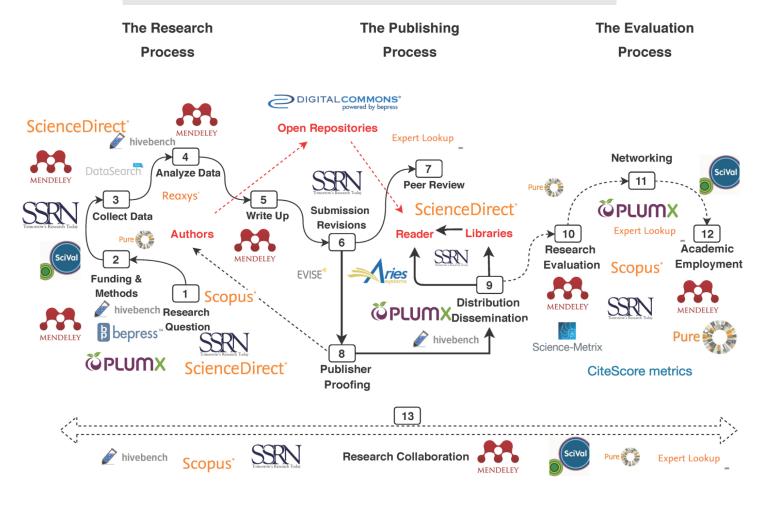
(Okune et al. 2018)

For full paper:

https://hal.archives-ouvertes.fr/hal-01816808



An Enclosed System of Knowledge Production

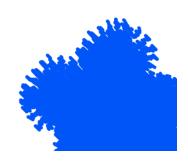


https://books.openedition.org/oep/9068

"We need to acknowledge that the dominant knowledge practices and institutions have been structured and implemented in such a way as to simultaneously privilege certain epistemic situated values (such as universality, objectivity and truth) while being unjust or dismissive with regard to other, more *relational* and complex modes of knowledge"

http://doi.org/10.5281/zenodo.3946773





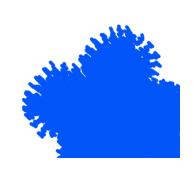
Community-Research Mutuality

Science with community

A sense of solidarity but even beyond that... acknowledging the mutual labour and co-construction of knowledges

the sharing of feeling / action / relationship between two or more parties (and particularly between "researchers" and communities)



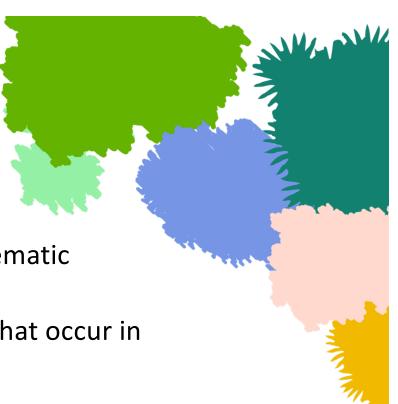


What is Science?

- Discovery of relations or interactions
- Connect clusters of knowledge through systematic reflection and conceptualization
- Understand the processes and phenomena that occur in nature and society

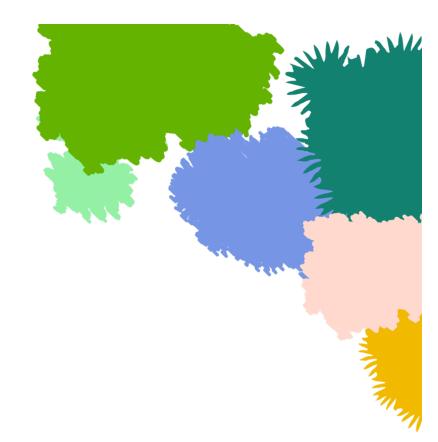
UNESCO's 2017 Recommendation on Science and Scientific Researchers





Who is science by?

- Who is a "scientist"?
- The Rights to Research



Arjun Appadurai (2006) The right to research, Globalisation, Societies and Education, 4:2, 167-177, DOI: 10.1080/14767720600750696



The Right to Research

"right to the tools through which any citizen can systematically increase that stock of knowledge which they consider most vital to their survival as human beings and to their claims as citizens."

Arjun Appadurai (2006) The right to research, Globalisation, Societies and Education, 4:2, 167-177, DOI: 10.1080/14767720600750696

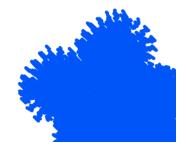


Who is Science for?

- Science as a public good
- Science for and WITH communities
- Local and global







A year of Reckonings?

Limitation of a monolithic view of science as universal, objective and based on causal understandings

Need for structural approaches, analyzing deeply embedded systemic and racial inequities

COVIC-19: The need for a Social Vaccine (Baum and Friel 2020)

A life with security

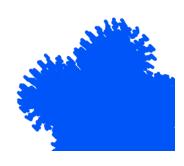
Opportunities that are fair

A planet that is habitable and supports biodiversity

Governance that is just

https://insightplus.mja.com.au/2020/36/covid-19-the-need-for-a-social-vaccine/





"Social Vaccine" against Knowledge Enclosure?

- Community designed and governed infrastructure built on a Pluriversal view of science and knowledge
- Expanding the rights of research
- Transition from an extractive to generative models of knowledge production (care economy)



