![Knowledge Equity Lab logo]

Open Praxis as Social Vaccine for Knowledge Equity

Leslie Chan, Centre for Critical Development Studies
University of Toronto Scarborough
@lesliekwchan @knowledgeequitylab

Agenda

- Situating my biases and privileges

- Share some lessons learned about the limits and potentials of "open"

- A proposition for open praxis as "Social Vaccine" for knowledge equity
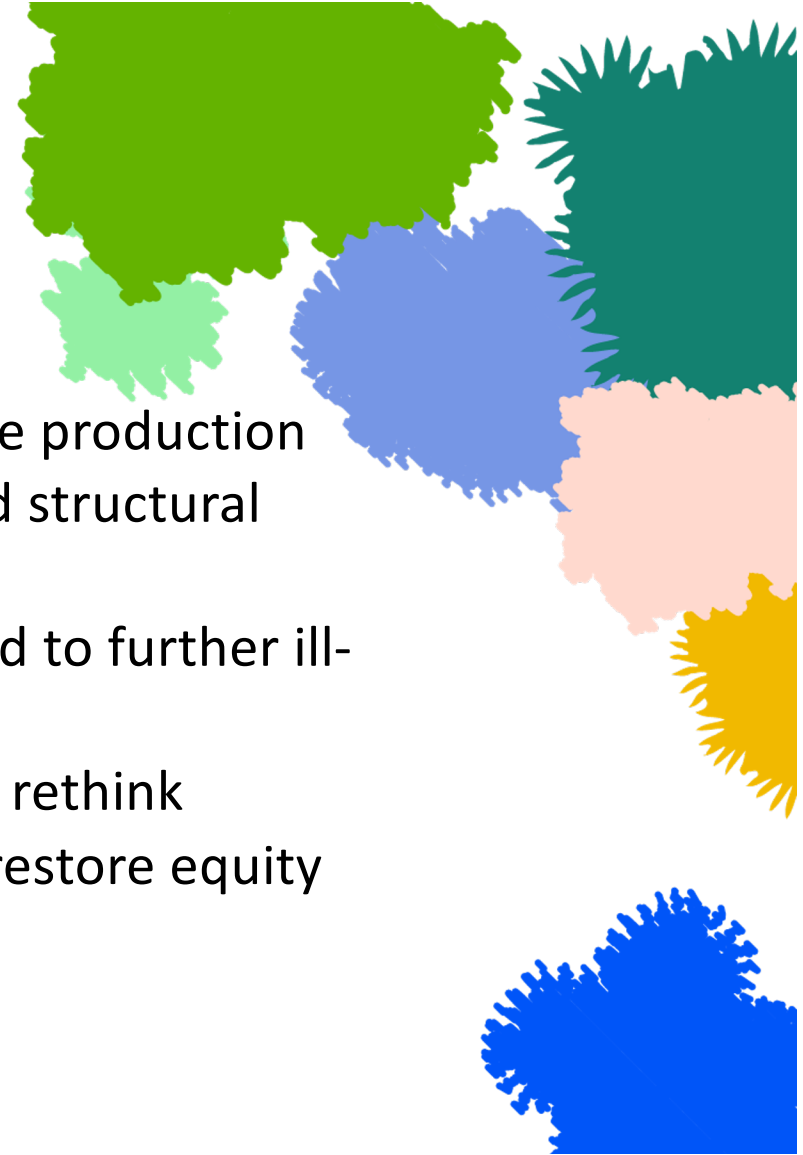
Knowledge Equity Lab

Praxis (Action/Reflection) - Paulo Freire

It is not enough for people to come together in dialogue in order to gain knowledge of their social reality. They must act together upon their environment in order critically to reflect upon their reality and so transform it through further action and critical reflection.

Premise

- Our systems of education and knowledge production are in ill-health due to deeply embedded structural inequity and racism
- Openness, when applied uncritically, lead to further ill-health
- The need for "Social Vaccine" – a way to rethink relationship of knowledge systems – to restore equity and resilience
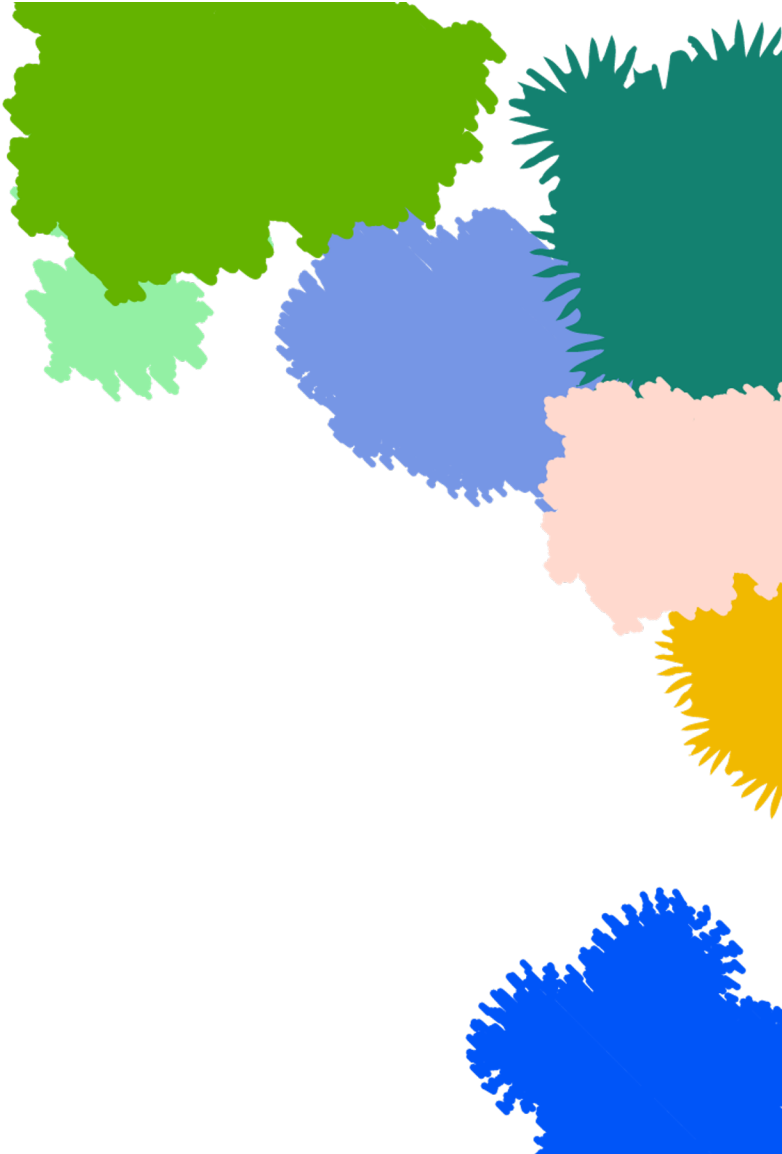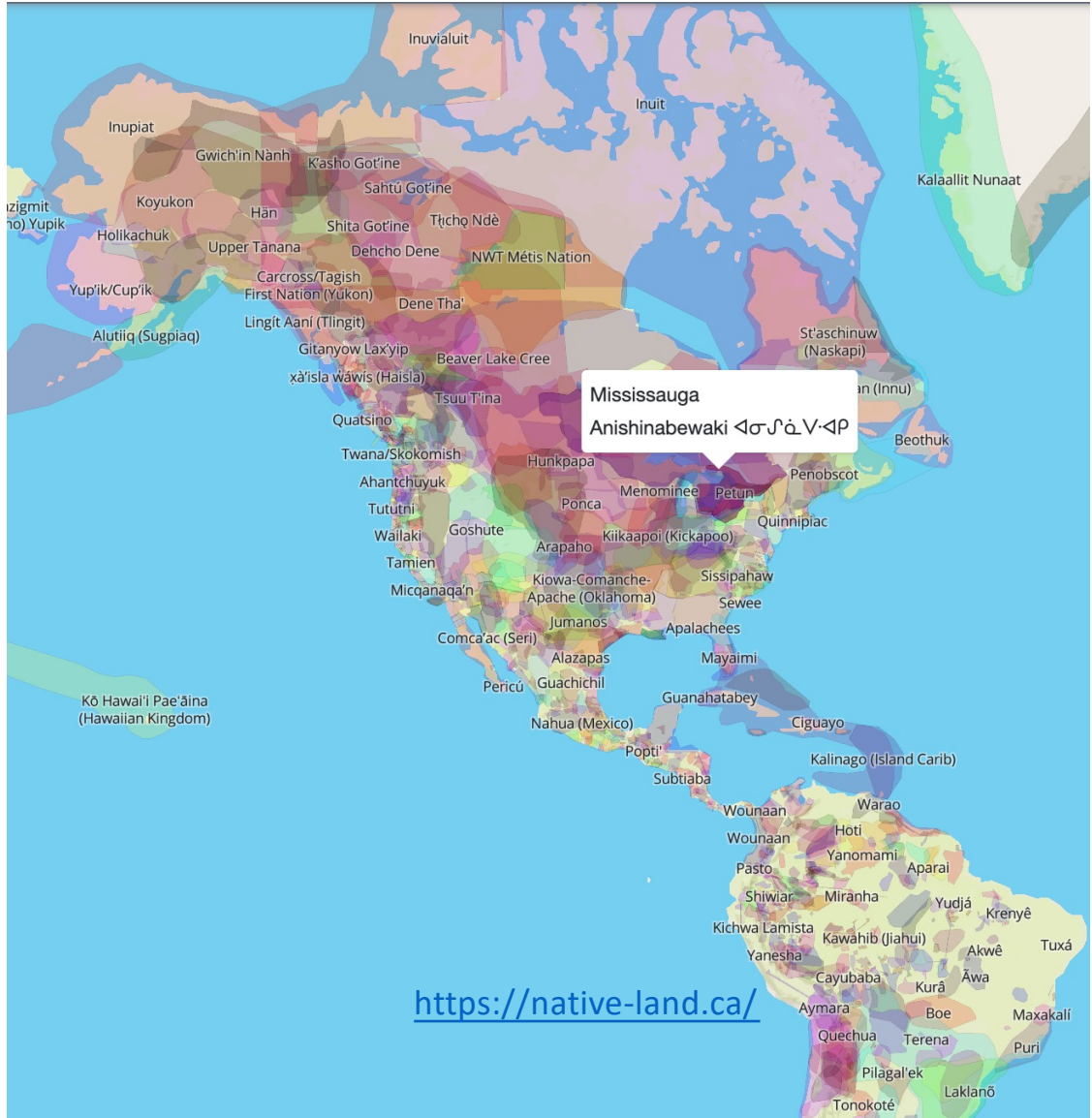
Knowledge Equity Lab

Go to **www.menti.com** and use the code **5418 7065**

What should be in the Social Vaccine tool kit of Educational Technology?

Knowledge Equity Lab

https://native-land.ca/

Situating my biases and privileges

# Unequal contribution and participation in Knowledge Production
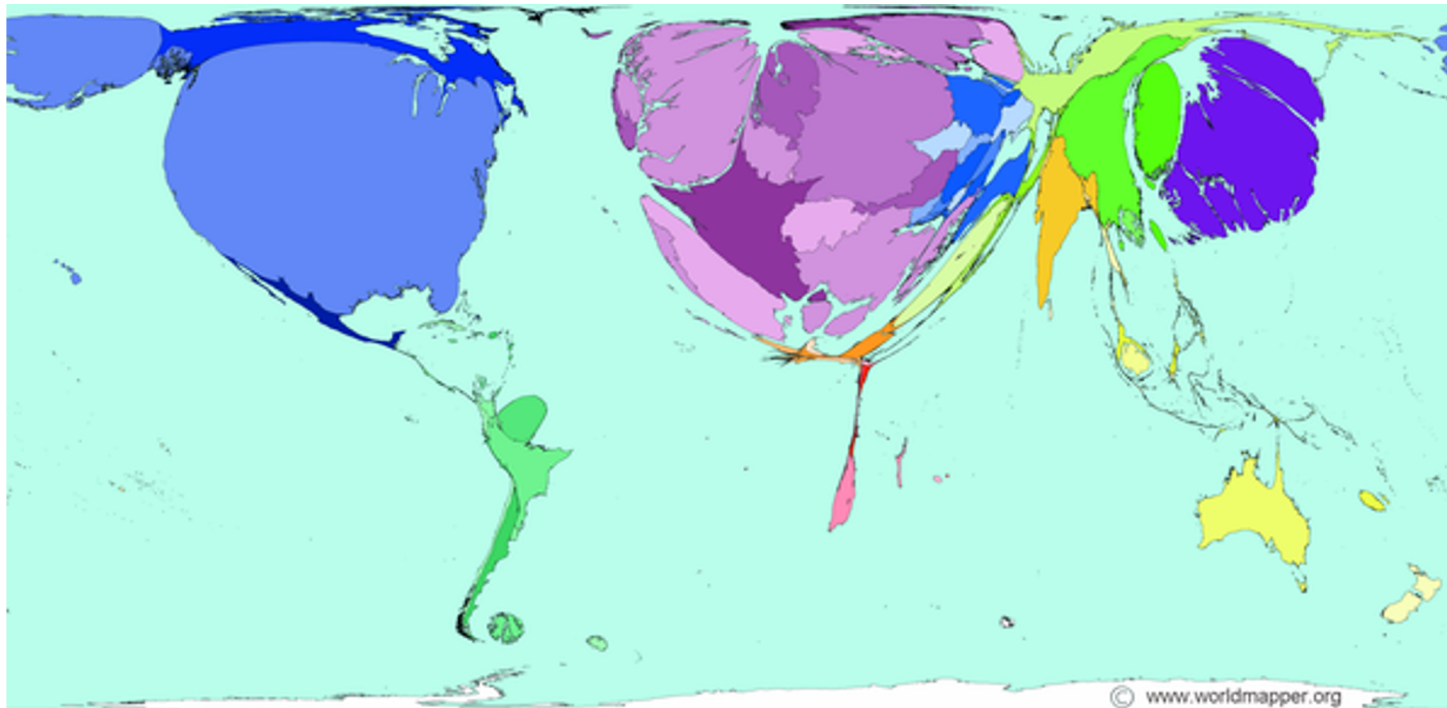
Could Open Access and Open Science change the current power structure of global scientific production and dissemination?

Periphery

Centre

Open Access and Open Science

Periphery
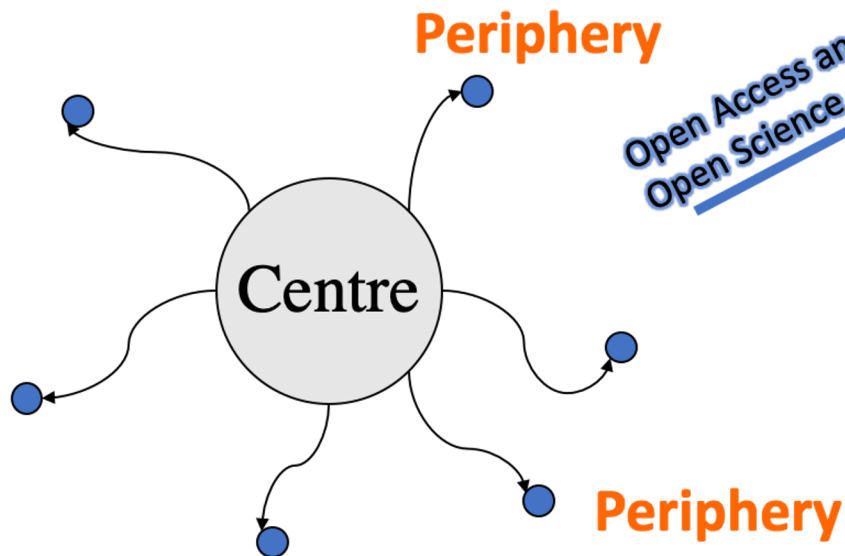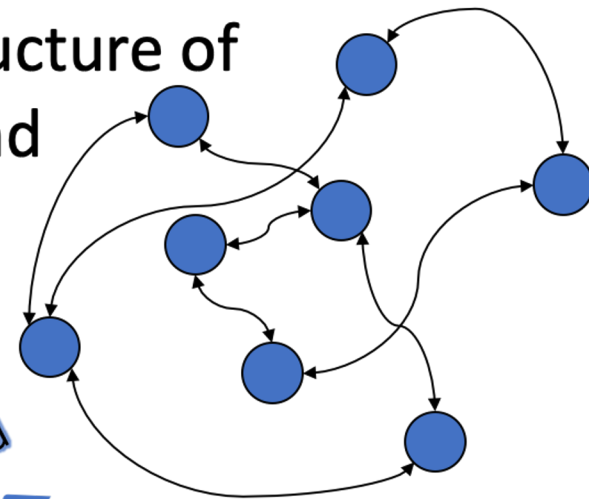
Could openness creates the potential for new spaces for collaboration and co-creation of knowledge?

Opponents and supporters of the TRIPS Waiver

Adopting the waiver proposal would ensure that the world has better access to #Covid19 diagnostics, medication and vaccines. Nobody is safe until everybody is safe #NoCovidMonopolies.

■ Opposed ■ Undecided ■ Supporters ■ Co-sponsors

https://www.epsu.org/article/global-unions-and-civil-society-join-call-waiver-allow-countries-produce-vaccines

Map: PSI • Source: Original information by MSF • Get the data • Created with Datawrapper

Bioline International is a not-for-profit scholarly publishing cooperative committed to providing open access to quality research journals published in developing countries. BI's goal of reducing the South to North knowledge gap is crucial to a global understanding of health (tropical medicine, infectious disea   s), biodiversity, the environment, conservation and international development. By providing a   ed journals (currently from Bangladesh, Brazil, Chile, China, Colombia, Egypt, Ghana, India   Turkey, Uganda and Venezuela). BI helps to reduce the global knowledge divide by ma   these coun   al research community world-wide.

Find out more about:

- Journals in the Bioline Internationa
- How to Support Bioline

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.

ternational@utoronto.ca

347666

full text downloads in Nov 2020

| HOME | FAQ | RESOURCES | EMAIL BIOLINE |

http://bioline.org.br

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

Knowledge Equity Lab

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
- "Openess Determinism" (Sarah Lambert 2018)

Knowledge Equity Lab

Openness Determinism

"The "openness as good" theme emerged as a major alternative (non-social justice) theme in which the idea of what "openness" could achieve was fetishized as if it had some kind of inherent power, reminiscent of the technical determinist literature. Technological determinism is a problematic and ultimately ineffective approach to technology implementations, which assumes that the particular capabilities of new technologies will always improve the situations into which they are brought. Such over optimism tends to under-state the influence of people and the social context for the success – and also the failure — of particular technologies."

Lambert, S. R. (2018). Changing our (Dis)Course: A Distinctive Social Justice Aligned Definition of Open Education. *Journal of Learning for Development*, *5*(3), Article 3.
https://jl4d.org/index.php/ejl4d/article/view/290

Knowledge Equity Lab

Limits and Potentials of Open

- 12 projects from Latin America, Middle East, Africa and Asia

- Critical approach to Open Science

- Key output: Open and Collaborative Science in Development Manifesto

POSTED BY ANGELA OKUNE · ART, CHILDREN, CITIZEN SCIENCE, EDUCATION, ENVIRONMENT, KYRGYZSTAN, WATER.

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

POSTED BY ANGELA OKUNE · ACCESS, ARGENTINA, CITIZEN SCIENCE, ESPAÑOL, STS.

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

POSTED BY ANGELA OKUNE · CATH TRAYNOR, COMMUNITY RESEARCH, INTELLECTUAL PROPERTY RIGHTS, NATURAL JUSTICE, OCSDNET.

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

POSTED BY ANGELA OKUNE · CITIZEN SCIENCE, LEBANON, SDGS, SUSTAINABLE DEVELOPMENT, WATER QUALITY.

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

POSTED BY DENISSE ALBORNOZ

LESSONS FROM COLOMBIA: TYING OPEN SCIENCE WITH LOCAL DEVELOPMENT NEEDS

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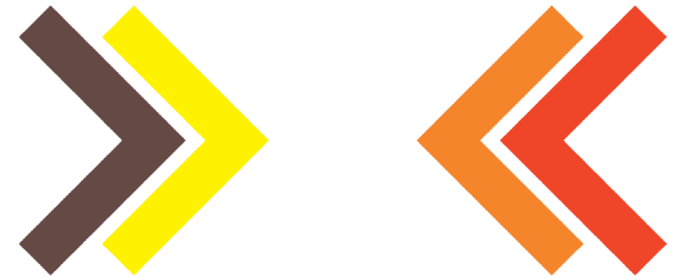
Prepared for the Canadian Commission for UNESCO
By Leslie Chan, Budd Hall, Florence Piron, Rajesh Tandon and Lorna Williams
Ottawa, July 2020

Situated Openness

Open ≠ Equitable

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

Lessons learned...

- Open Access is not enough
- Digital Networks replicate and reinforce existing hierarchies
- Infrastructure is never neutral
- Network effect & the Concentration of Power
- Platform governance is opaque and non-transparent
- "Code is Law"
- The need to understand structural and institutional inequities built on racial and colonial practices
- Politicize and historicize "Openness"

Knowledge Equity Lab
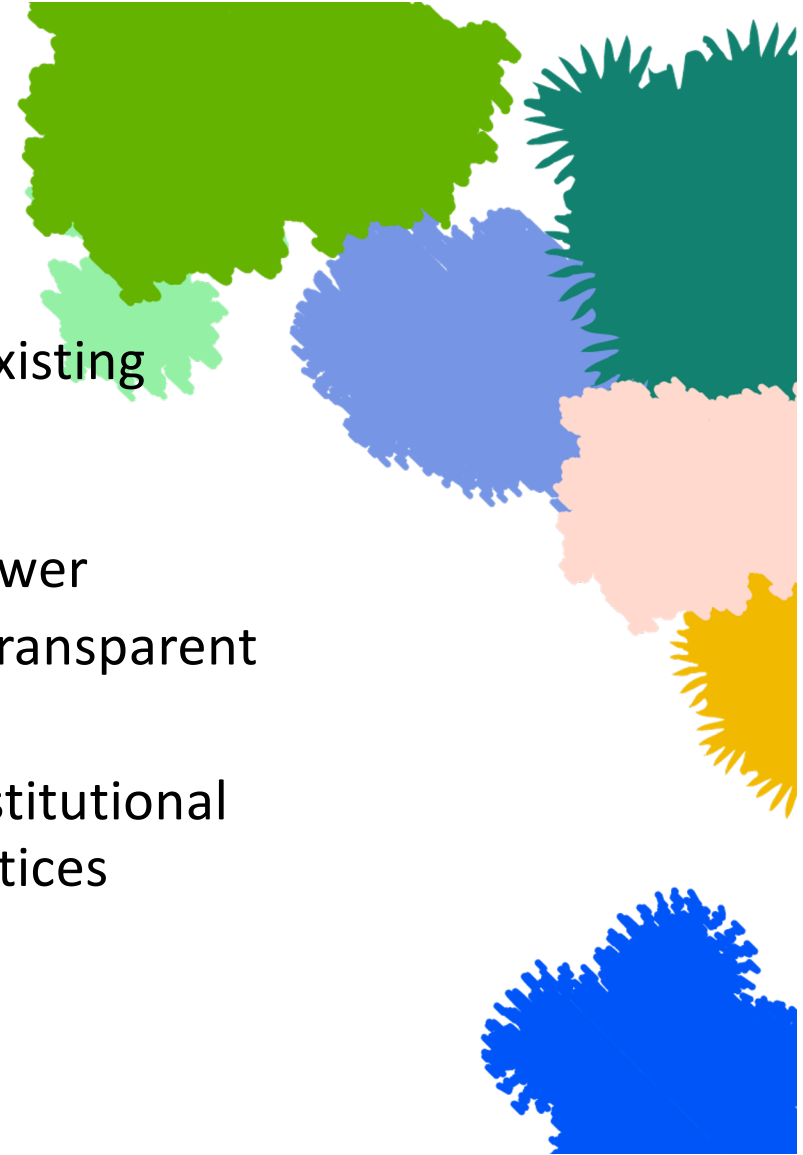
An Enclosed System of Knowledge Production

https://books.openedition.org/oep/9068
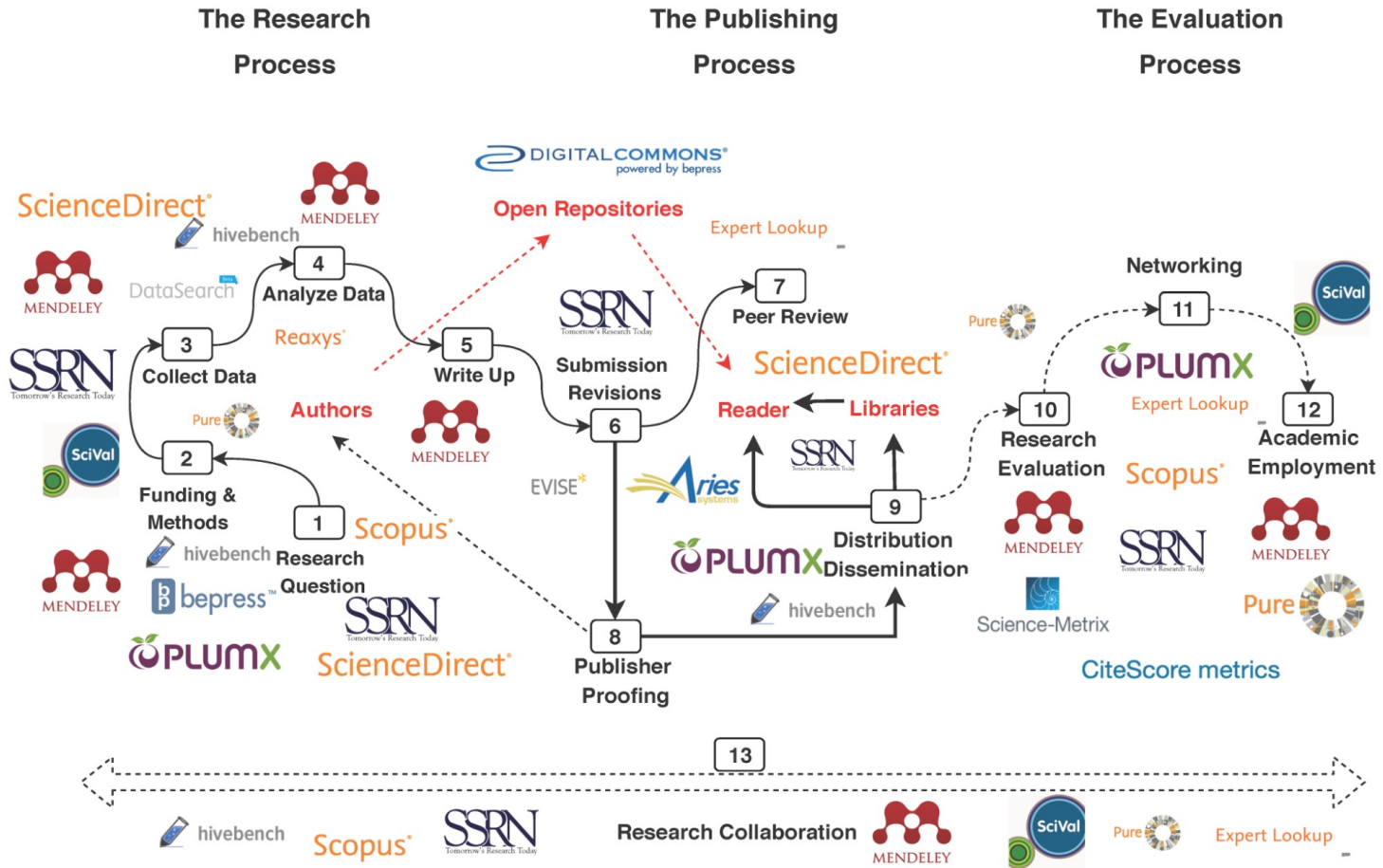
"Contemporary infrastructure space is the secret weapon of the most powerful people in the world precisely because it orchestrates activities that can remain unstated but are nevertheless consequential. **Some of the most radical changes to the globalizing world are being written, not in the language of law and diplomacy, but in these spatial, infrastructural technologies**—often because market promotions or prevailing political ideologies lubricate their movement through the world."

Easterling, K. (2016). *Extrastatecraft: The Power of Infrastructure Space* Verso.

Knowledge
Equity
Lab
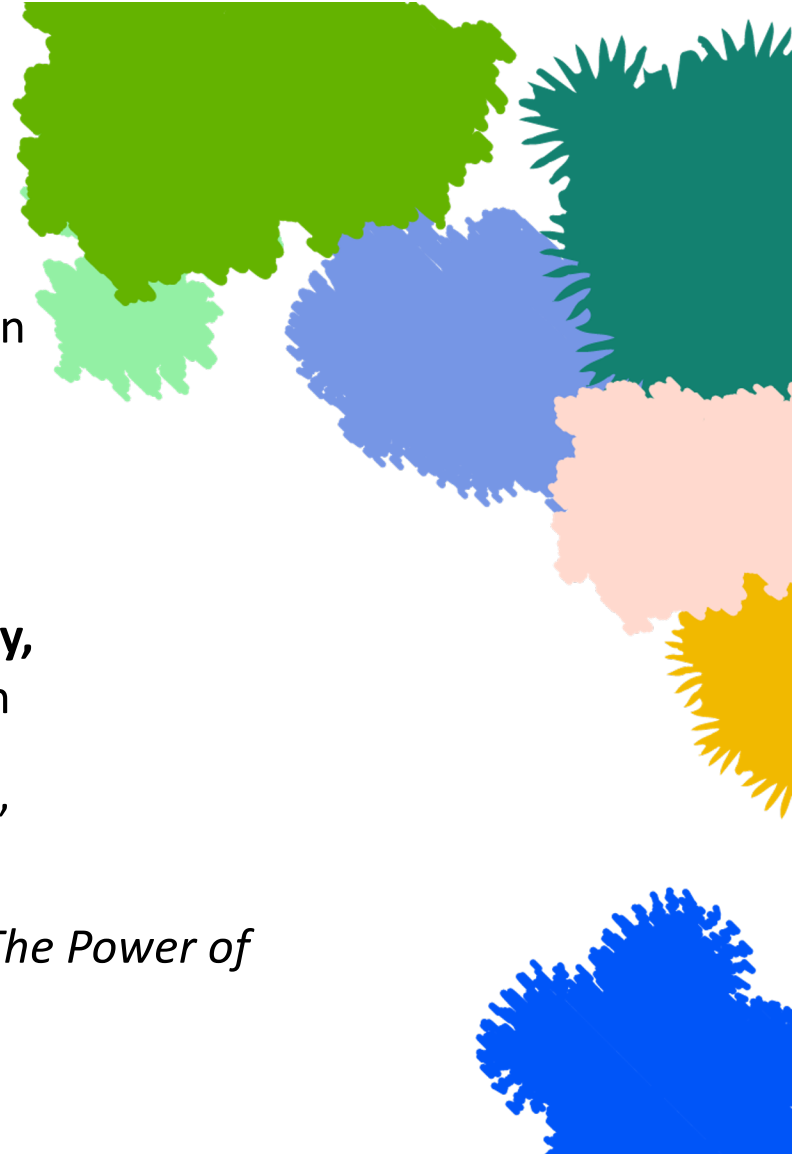
Vaccine Thinking and the Magic Bullet

- Limitation of the disease model of health

- Profit and neglected diseases

- Social Determinants of Health and Intersectional Inequity

- The benefits of science are highly unevenly distributed

Knowledge
Equity
Lab
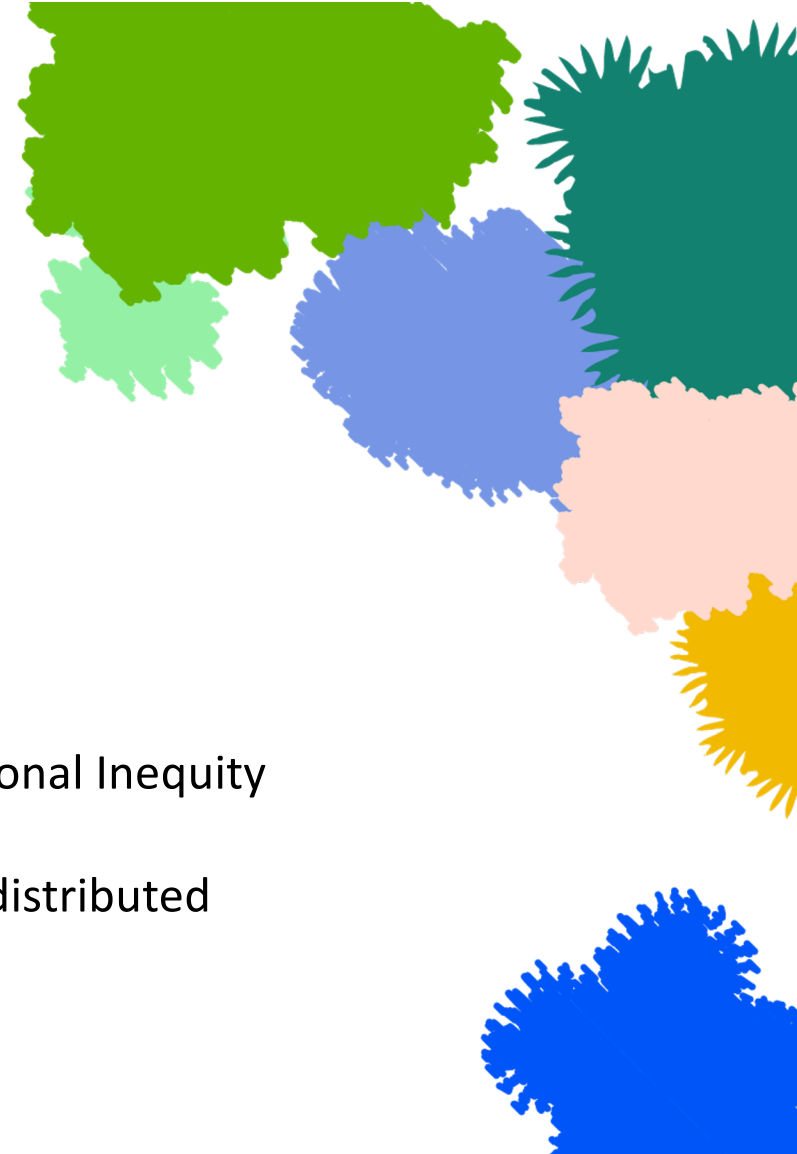
"Scandalous" Vaccine Inequity

"More than 75% of all vaccines have been administered in just 10 countries" as of May 2021
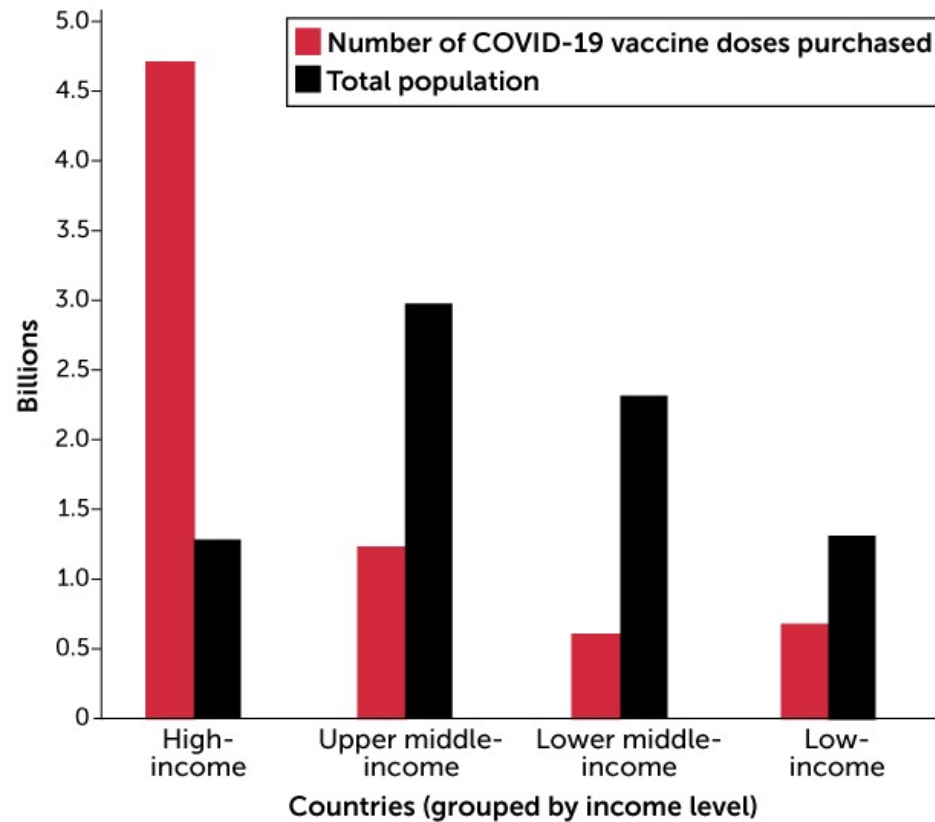
Number of COVID-19 vaccine doses purchased
Total population

Billions — Countries (grouped by income level): High-income, Upper middle-income, Lower middle-income, Low-income

https://www.sciencenews.org/article/covid-19-global-inequity-vaccines-deaths-economy-pandemic

Opponents and supporters of the TRIPS Waiver

Adopting the waiver proposal would ensure that the world has better access to #Covid19 diagnostics, medication and vaccines. Nobody is safe until everybody is safe #NoCovidMonopolies.

Legend: Opposed · Undecided · Supporters · Co-sponsors

https://www.epsu.org/article/global-unions-and-civil-society-join-call-waiver-allow-countries-produce-vaccines
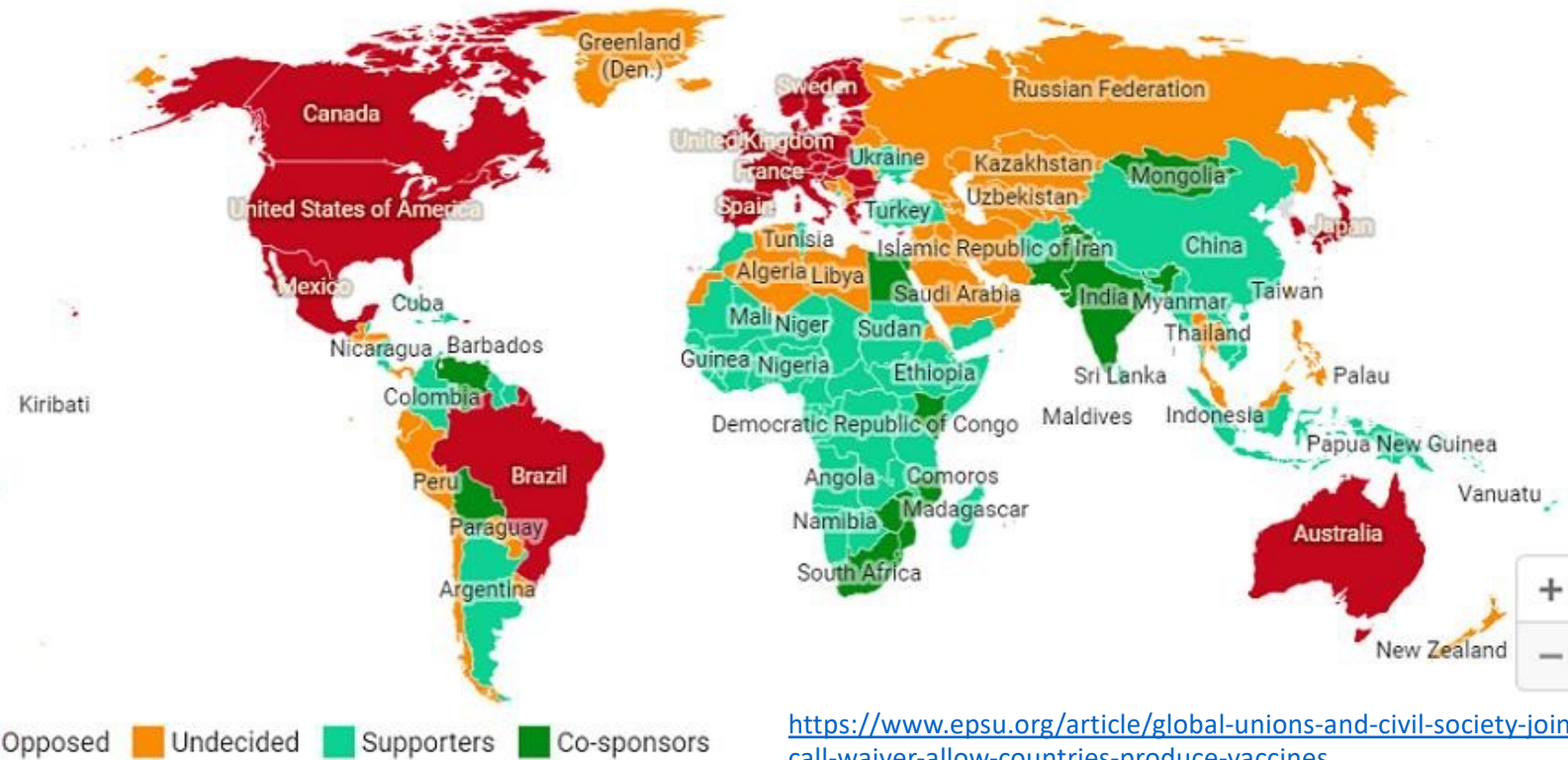
Map: PSI · Source: Original information by MSF · Get the data · Created with Datawrapper

Of Technology and Vaccine
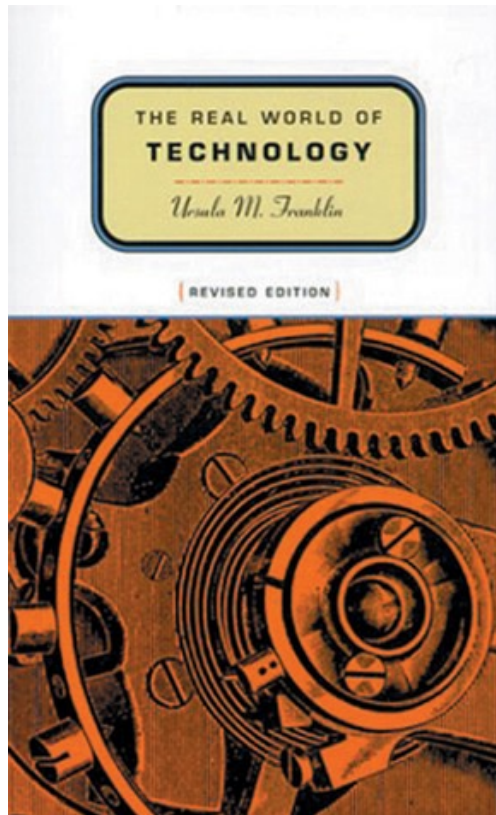
Technological quick fix and solutionism

Prescriptive Technology and the Culture of Compliance

Structural determinants of inequity and Social Policy

"When work is organized as a sequence of separately executable steps, the control over the work moves to the organizer, the boss or manager,"

"In political terms, prescriptive technologies are *designs for compliance*." (Ursula Franklin)

Franklin, U. (1999). *The real world of technology* (1 edition). House of Anansi Press.

THE REAL WORLD OF
TECHNOLOGY

Ursula M. Franklin

[REVISED EDITION]

Social Vaccine

A social vaccine is a process of social and political mobilisation which leads to increased government and other institutions' willingness to intervene with interventions, applied to populations rather than individuals, **aimed at mitigating the structural social and economic conditions that make people and communities vulnerable to disease, illness and trauma***. While medical vaccines help develop immunity against disease,* **social vaccines develop the ability of communities to resist and change social and economic structures and processes** *that have a negative impact on health and force governments to intervene and regulate in the interests of community health.*

Baum, F., Narayan, R., Sanders, D., Patel, V., & Quizhpe, A. (2009). Social vaccines to resist and change unhealthy social and economic structures: A useful metaphor for health promotion. *Health Promotion International*, *24*(4), 428–433. https://doi.org/10.1093/heapro/dap026
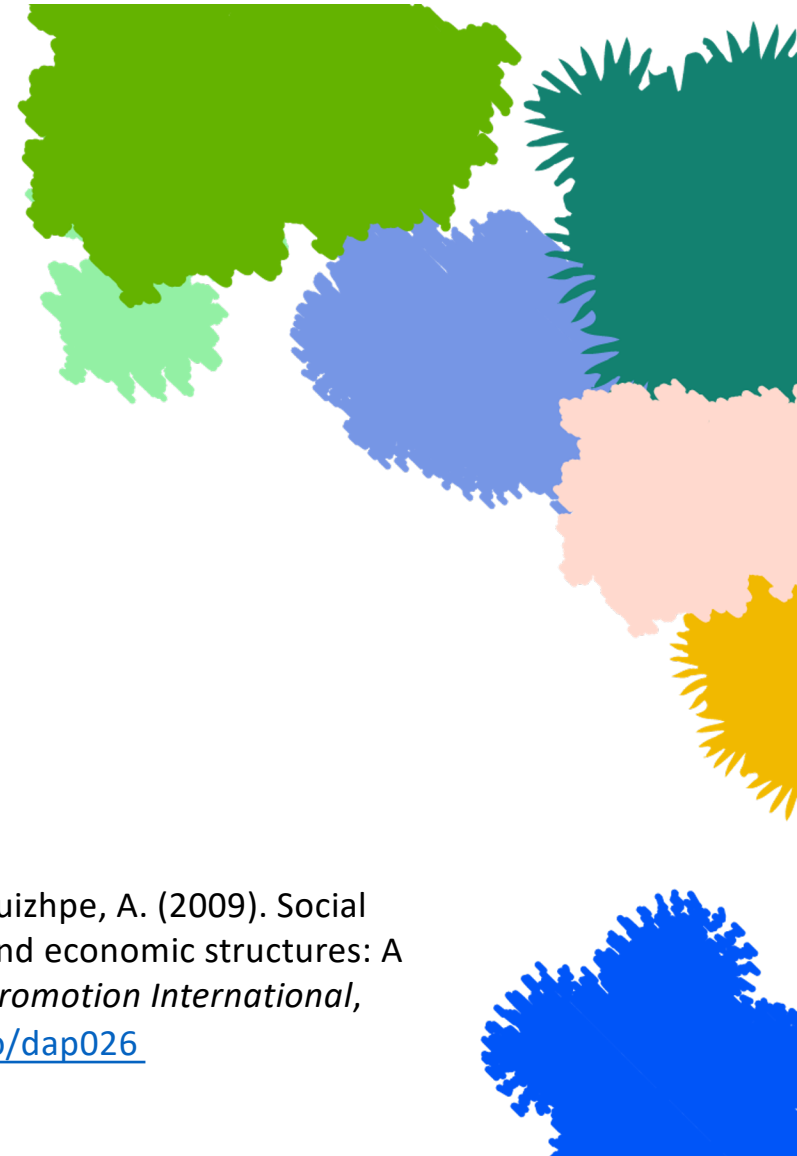
Knowledge
Equity
Lab

Examples of Social Vaccine

Indigenous Land rights and subsistence

Restriction and regulation of corporate advertising

Progressive taxation for social security

Baum, F., Narayan, R., Sanders, D., Patel, V., & Quizhpe, A. (2009). Social vaccines to resist and change unhealthy social and economic structures: A useful metaphor for health promotion. *Health Promotion International*, *24*(4), 428–433. https://doi.org/10.1093/heapro/dap026

Knowledge
Equity
Lab

Social Vaccine for Knowledge Equity

- Community designed and governed infrastructure built on a **Pluriversal view of science and knowledge**
- Expanding the rights of research and participation in knowledge production
- Open Praxis as a framework that encompasses various scholarly and educational practices, supported by policy instruments designed to strengthen **community-governed tools and infrastructure** that ensure that the benefits of public investment in knowledge making are equitably shared
- Transition from an extractive to generative models of education and knowledge production (care economy) using holistic technology

Knowledge
Equity
Lab

Go to **www.menti.com** and use the code **5418 7065**

What should be in the Social Vaccine tool kit of Educational Technology?

Knowledge
Equity
Lab

Thank you!

Knowledge
Equity
Lab

Some resources mentioned at the end of my talk:

The Latin American Forum for Research Assessment (FOLEC)
https://www.clacso.org/en/folec/que-es-el-folec/

Fernanda Beigel (2021) A multi-scale perspective for assessing publishing circuits in non-hegemonic countries Tapuya: Latin American Science, Technology and Society, 4:1, DOI: 10.1080/25729861.2020.1845923

The Declaration on Research Assessment (DORA)
https://sfdora.org
https://sfdora.org/resource-library/

Knowledge Equity Lab