

Increasing Visibility of Knowledge from the Global South

Caleb Kibet

Tuesday, March 7th, 2023



Africa generates very little research...



First of Her Name

@JoyOwango



Replying to @JoyOwango

This claim is false... We need to increase the visibility of African research

NISO PLUS 2021

Claim: only 0.1% scholarly content is said to be from Africa

NOT TRUE instead, the work is not discoverable:

- Regional bias in western journals' editorial teams
- African scholars are inclined to list western partner institutions instead of their African home institute
- a large proportion of present and historical African scholarly output is in print
- Bottlenecks in infrastructural network challenges and internet connectivity

Instead, it's because our work is not discoverable.

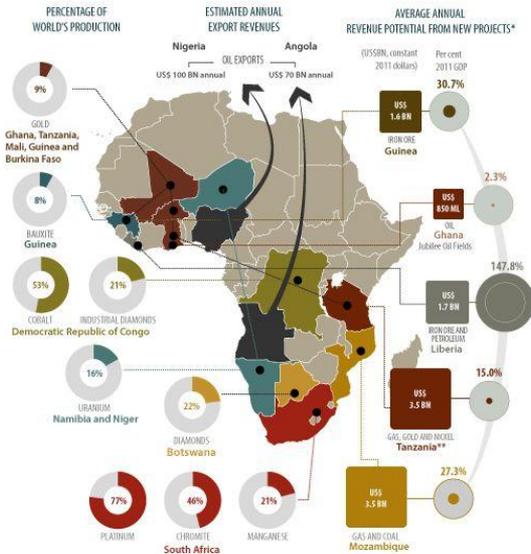
CadmoreMedia

6:01 PM · Feb 25, 2021 · Twitter Web App

@H3ABioNet @Calkibet



Africa is Rich but highly exploited—and low visibility.



Sources:
Raw Materials Data, InterraRMG, 2013
World Bank, Africa Pulse October 2012, Volume 6
BMF, Fiscal Regimes for Extractive Industries: Design and Implementation, 2012
U.S. Geological Survey, Mineral commodity summaries 2013
*Estimates are intended to show order of magnitude. Revenue projections are highly sensitive to assumptions about prices, volume of production, and production methods used and cost of production.

- **The extractive economy** is not only affecting minerals, agriculture, brain drain but also scientific resources
- **“helicopter research”**—thoughtless field research in poorer countries that extracts data without respectful collaboration (doi: [10.1126/science.add3544](https://doi.org/10.1126/science.add3544))

Introducing the new
**Open Research
Africa**
publishing platform

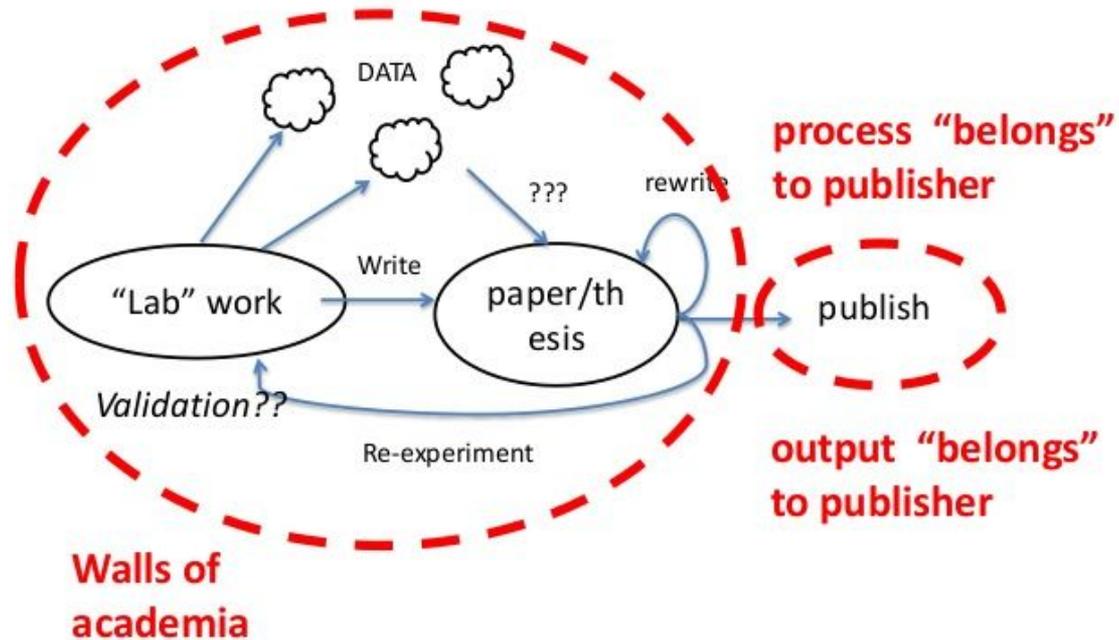


SCIENCE FOR AFRICA | F1000



We are seeing Increased Funding and
African-driven Publishing.

Traditional research and Publication



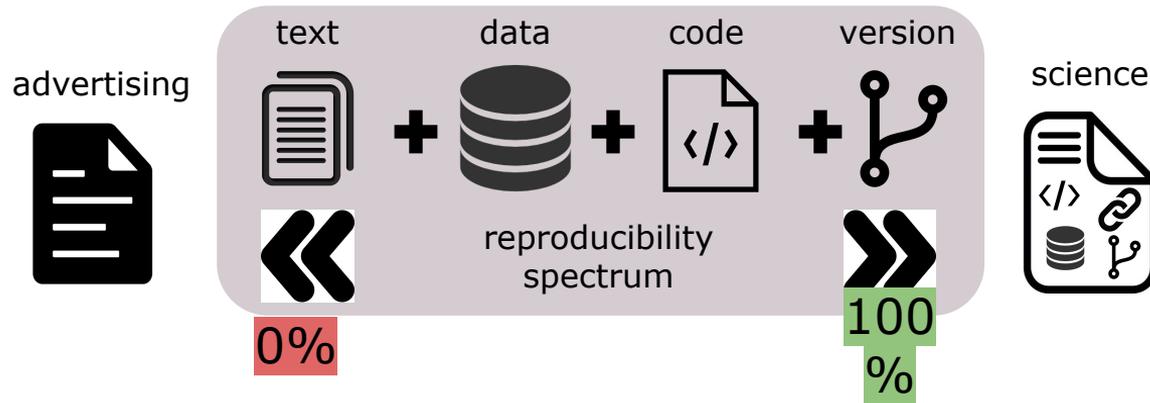
Open Science is

UNESCO: open science is defined as an inclusive construct that combines various movements and practices aiming to make **multilingual scientific knowledge** openly **available**, accessible, and reusable **for everyone**, to increase scientific collaborations and sharing of information **for the benefit of science** and society, and to open the processes of scientific knowledge creation, evaluation, and communication to societal actors beyond the traditional scientific community.

A published article is just part of the knowledge output.

“An article (about computational result) is advertising, not scholarship. The actual scholarship is the full software environment, code and data, that produced the result.”

Buckheit and Donoho (1995)



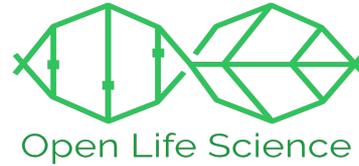
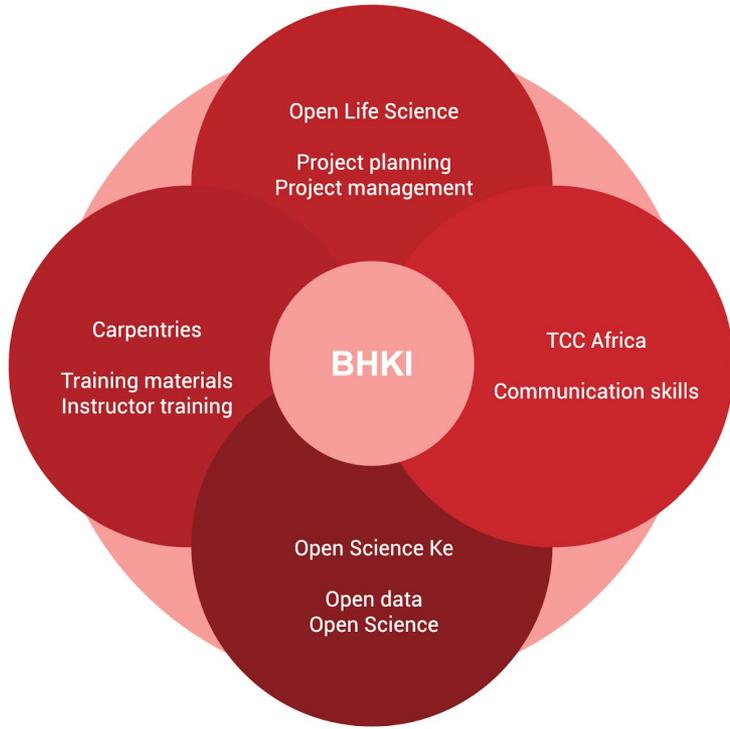
We must consider the context, understand the specific needs, and design interventions that are owned and driven locally.





What we are doing



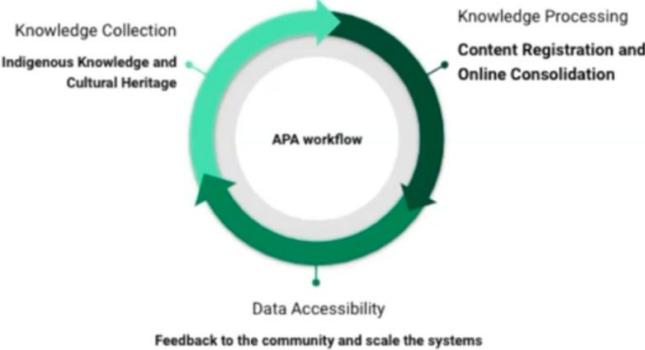


Community Collaborations to sensitize and empower the adoption of open practices.

“A community of **PID** enthusiasts in and from Africa aiming to lead and realize a **FAIR** sharing and access to data using Persistent Identifiers.”



Africa PID Alliance



Knowledge Collection
Indigenous Knowledge and
Cultural Heritage

Knowledge Processing
Content Registration and
Online Consolidation

Data Accessibility

Feedback to the community and scale the systems

APA workflow



We invite you to collaborate with APA!



Training Centre in Communication
Train. Support. Empower.

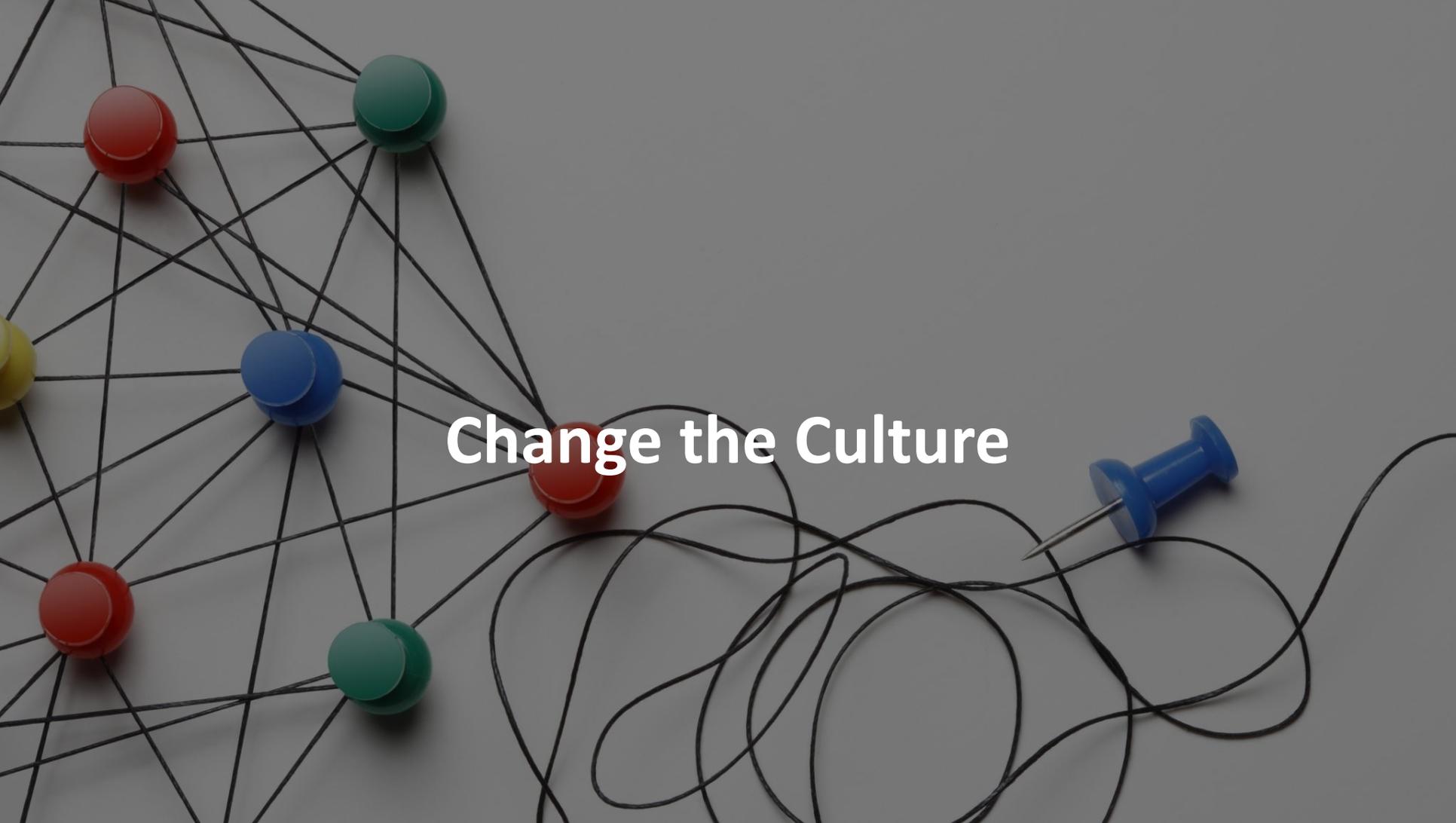




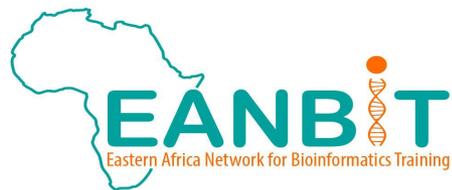
How can we
increase visibility
of African
Knowledge and
Research
output?



- Push for **DOI** and **permanent Identifiers** of African Knowledge platforms
 - Expand the **modes of publishing**: Videos, Stories, Songs, and Dance
 - **Digitization** of output in Libraries for discoverability
 - Use of **indigenous languages** in publishing for accessibility of output
 - Increase the **awareness** of the best practices by leveraging **grassroots** communities
 - **Co-creation and design of interventions** to ensure they are tailored to the needs and adapt to the challenges
-

A network diagram composed of several colorful pushpins (red, green, blue, yellow) connected by a dense web of black lines. The pushpins are arranged in a roughly triangular pattern on the left side of the image. A single blue pushpin is positioned on the right side, with a black line extending from it and forming a large, tangled loop that occupies the bottom right portion of the frame. The background is a plain, light gray surface.

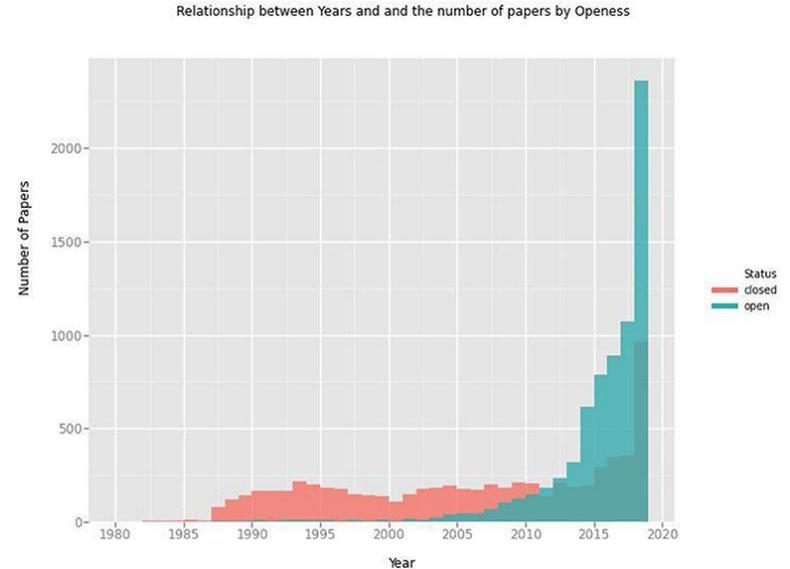
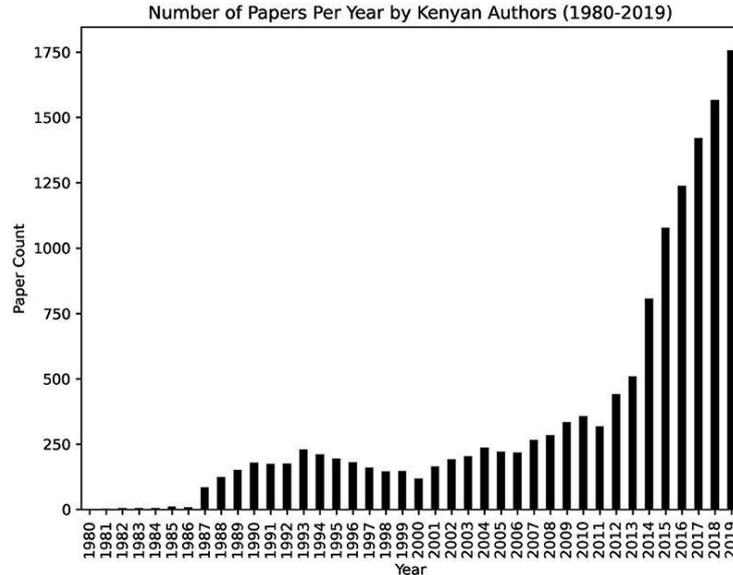
Change the Culture



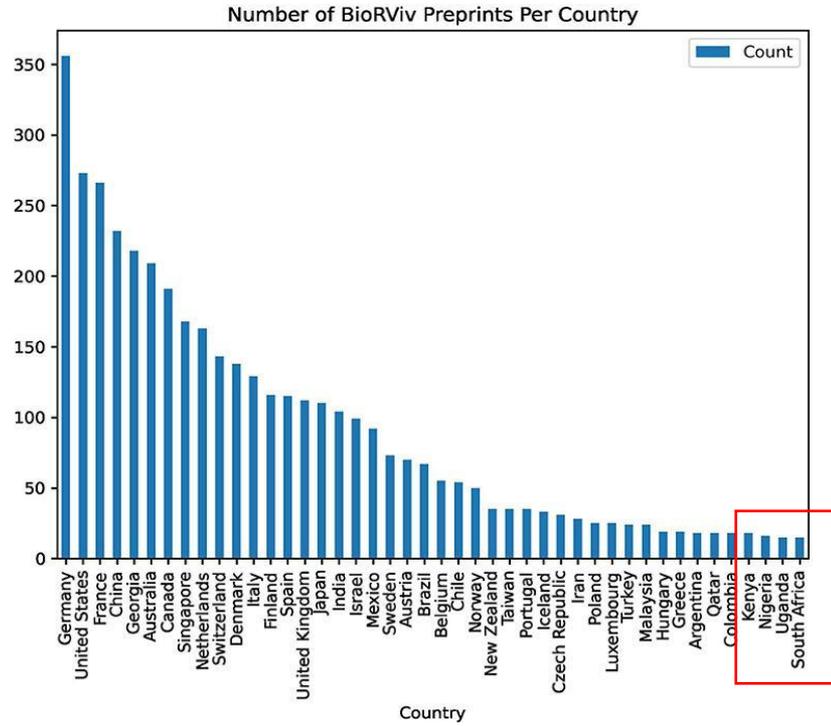
Acknowledgements



We see Increased Open Access publishing



Mwangi KW, Mainye N, Ouso DO *et al.* Open Science in Kenya: Where Are We?
Front Res Metrics Anal 2021;**6**, DOI: 10.3389/frma.2021.669675.



But low Adoption of Preprints

Empowering researchers with skills and tools in Open Science and Bioinformatics



OpenScienceKE

OpenScienceKE is a group of scientists, researchers and students seeking to promote open science practices in bioinformatics.



Bioinformatics Hub of Kenya initiative aims to raise up a generation of globally competitive bioinformaticians from Kenya and Africa as a whole, for the good of humanity and the natural world.

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