



Training Centre in Communication
Train. Support. Empower

Open Science African Perspectives Through Strategic Partnerships & Its Impact on Democratizing Knowledge

PRESENTED BY: Joy Owango
- Executive Director

@ tcc africa



United Nations
3rd Open Science Conference
8 – 10 February 2023
9 a.m. – 1.30 p.m. ET



About us

TCC Africa is an award-winning Trust, established as a non-profit entity in 2006. We provide capacity support in improving researchers output and visibility through training in scholarly and science communication.



Our Values



Collaborative



Supportive



Goal -Oriented





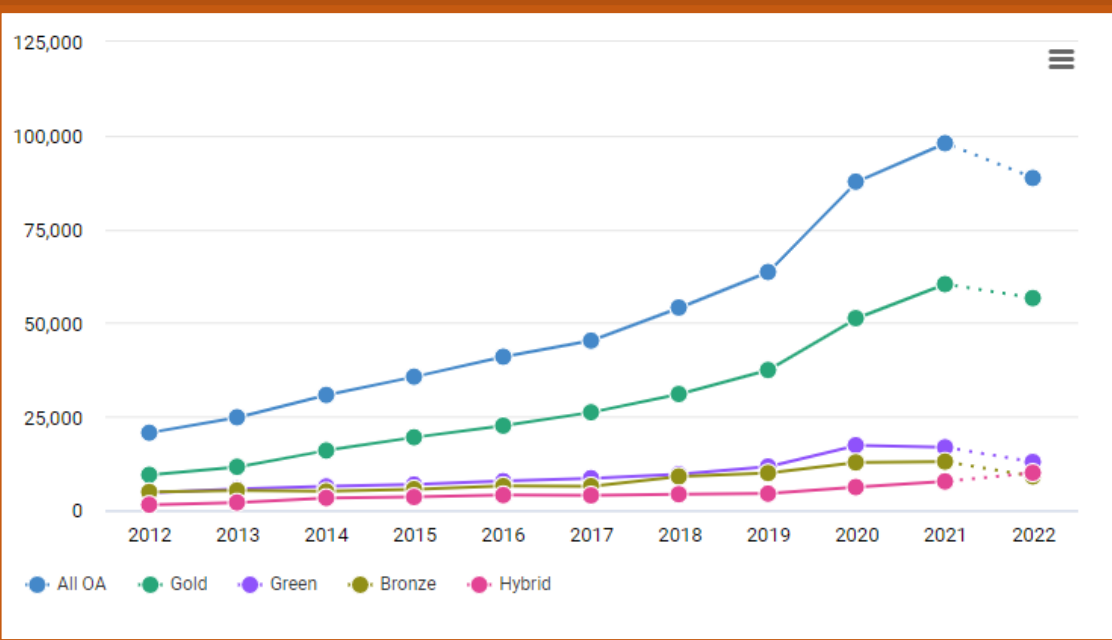
Trends

African Research Output 2012–2023

➔ **1,756,291**

OPEN  ACCESS

➔ **724,482**



Trends



OPEN  ACCESS

African Preprint Output 1978–2022

➡ 39,847

› PUBLICATION YEAR

<input type="radio"/> 2023	720	<input type="radio"/> 2014	655	<input type="radio"/> 2005	112	<input type="radio"/> 1996	27
<input type="radio"/> 2022	9,601	<input type="radio"/> 2013	542	<input type="radio"/> 2004	97	<input type="radio"/> 1995	7
<input type="radio"/> 2021	8,815	<input type="radio"/> 2012	507	<input type="radio"/> 2003	94	<input type="radio"/> 1994	9
<input type="radio"/> 2020	8,980	<input type="radio"/> 2011	407	<input type="radio"/> 2002	76	<input type="radio"/> 1993	1
<input type="radio"/> 2019	3,774	<input type="radio"/> 2010	398	<input type="radio"/> 2001	66	<input type="radio"/> 1990	1
<input type="radio"/> 2018	1,448	<input type="radio"/> 2009	306	<input type="radio"/> 2000	66	<input type="radio"/> 1978	1
<input type="radio"/> 2017	948	<input type="radio"/> 2008	227	<input type="radio"/> 1999	61		
<input type="radio"/> 2016	755	<input type="radio"/> 2007	167	<input type="radio"/> 1998	55		
<input type="radio"/> 2015	735	<input type="radio"/> 2006	137	<input type="radio"/> 1997	52		

*Courtesy of
Dimensions.ai*

Our Capacity Building Ecosystem



Library & Information Literacy Excellence

Upgrade Libraries

Supporting libraries in transitioning to latest Open Science academic publishing technology using FAIR principles

Adoption of Open Science

Education & Awareness

Educate, facilitate and create partnerships on Open Access to raise the profile of African research



Journal Selection Strategy

Advance Scholarship

Smart strategies in mitigating predatory publishing.
Adoption of use of preprints
Increase global credibility, Indexing, ranking & Impact on international communities of knowledge, commerce & public policy.



Higher Education Excellence for Sustainable Economic Development

Strengthen Knowledge Economies

Integrate higher education with industry & public policy to increase economic growth & sustainable development.



Research Excellence

Maximize Research

Improve the quality, quantity, visibility & impact of institutional research.



Higher Education Leadership Excellence

Increase Ranking

Assess, develop & Implement strategies to improve institutional quality, leading to higher global ranking.



Strategic Open Science partnerships & interventions



Dimensions



Kenya



Ghana



Malawi



Uganda



Zambia



Sudan

Rectangular Snip



Namibia



Nigeria



Lesotho



Senegal



Democratic
Republic of Congo



Zimbabwe



Tanzania

Strategic Open Science partnerships & interventions



Dimensions

PLOS ONE

PUBLISH ABOUT BROWSE

OPEN ACCESS PEER-REVIEWED

RESEARCH ARTICLE

The effect of data sources on the measurement of open access: A comparison of Dimensions and the Web of Science

Isabel Basson , Marc-André Simard, Zoé Aubierge Ouangré, Cassidy R. Sugimoto, Vincent Larivière

Published: March 31, 2022 • <https://doi.org/10.1371/journal.pone.0265545>

Article	Authors	Metrics	Comments	Media Coverage
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Abstract
Introduction
Materials and methods

Abstract

With the growing number of open access (OA) mandates, the accurate measurement of OA publishing is an important policy issue. Existing studies have provided estimates of the



Association of African Universities



African Journals Online



AfricArxiv

Pipeline



Dimensions

Increasing the Visibility of African Funders



Policy Dialogue





Introducing Open Science



TCC Africa and PLOS are partners in our mission to build and increase Open Science Dialogue at Regional , National & Institutional Level.



Objectives of the Open Science Policy Dialogue

- ❑ To create and embrace **Open Science** in the respective member academic communities
- ❑ To understand the current developments on Open Science, challenges faced in their respective academic communities and opportunities
- ❑ To reduce the push back on the adoption of Open Science and Open Access



Expected Outputs of the Policy Dialogue

- ❑ Increased awareness of **Open Science** and its benefits for research and the research community among AAU member institutions and consequently the African Continent.
- ❑ Increased education and awareness on **Open Science** in the AAU member researcher community
- ❑ Increased knowledge of the challenges for **Higher Education stakeholders** in Open Science practice and Open Access publication

Potential measures of success of the campaign

- ❑ Increased understanding of **Open Science**
- ❑ Increased numbers of Open Access and Open Science mandates in African universities
- ❑ University senate meeting (leadership) engagements beyond the regional workshops

Policy Dialogue



Institutional Open Science Mandates

Regional Meetings

ROARMAP
Registry of Open Access Repository Mandates and Policies

Home About Browse Help Data Visualisations

login | Create Account Search

Up a level

Export as EP3 XML Export

- Countries (UN Geoscheme) (1114)
 - Africa (36)
 - Americas (242)
 - Asia (84)
 - Europe (710)
 - Oceania (42)

OPEN SCIENCE POLICIES AND MANDATES IN AFRICAN HEIS WORKSHOP

14-15th July
9am to 2pm
EAT, Tanzania

Inviting East & Central African Vice Chancellors, Rectors, Deputy Vice Chancellors, Directors of Research and Library Services

Logos: TCEC, PLOS, AAU, etc.

Twitter post text: @UdsmOfficial, @PLOS, @AAU_67 & @tccafrica are hosting a free blended workshop for VCs, Rectors, DVCs & Directors of Research & libraries in East & Central Africa to create and implement #OpenAccess & #OpenScience mandates & policies. Register: event-mgt.aau.org/event/72/

OPEN SCIENCE POLICIES AND MANDATES IN AFRICAN HEIS WORKSHOP

26th-27th Oct
9am to 2pm
UTC, Egypt

Guest Speaker: Professor Mohamed Loufi, President and Vice-Chancellor, The British University in Egypt

Inviting Middle East & North Africa Vice Chancellors, Rectors, Deputy Vice Chancellors, Directors of Research and Library Services

Logos: TCEC, PLOS, BUE, etc.

Twitter post text: #OpenScience Meeting in #Egypt. Inviting Northern African VCs, Rectors, Deputy Vice Chancellors, Directors of Research and Library Services. A free blended workshop running each day, hosted by @bue_official @PLOS @AAU_67 & TCC Africa. Online registrants: us02web.zoom.us/joining/r egist...

OPEN  ACCESS

Select African Developments

Policy



ASSOCIATION OF AFRICAN UNIVERSITIES
ASSOCIATION DES UNIVERSITES AFRICAINES
اتحاد الجامعات الأفريقية



EAST AFRICAN COMMUNITY
EAST AFRICAN SCIENCE AND TECHNOLOGY
COMMISSION (EASTECO)

Policy Dialogue



Regional Policy Dialogues in the Pipeline.



EAST AFRICAN COMMUNITY
EAST AFRICAN SCIENCE AND TECHNOLOGY
COMMISSION (EASTECO)



Policy Dialogue



Institutional Open Science Mandates



ASSOCIATION OF AFRICAN UNIVERSITIES
ASSOCIATION DES UNIVERSITES AFRICAINES
اتحاد الجامعات الأفريقية

Regional Meetings
Tanzania, Egypt,
Southern Africa
Senate Meetings





Select Concerns

“Insufficient engagement on Open Science to leadership in universities (especially when it comes to research, promotions, incentives, competitiveness, using preprints, and matters relating to Intellectual Property Rights as compared to Open Access (publishing and open books))”

“Little awareness on Open science among higher education institute administrators”

“Poor attitude towards Open Science/Open Access”

“The perception that “free” means low quality.”

“Lack of mindset change by open science contributors”



Select Recommendations

“Enact workable and implementable policies to promote open science”

“Investing in developing facilities and technology that promote open science”

“Count for promotion”

“Award and recognition for outstanding researchers”

“The copyright and common license initiatives should be well-developed and spelled out”

Repositories

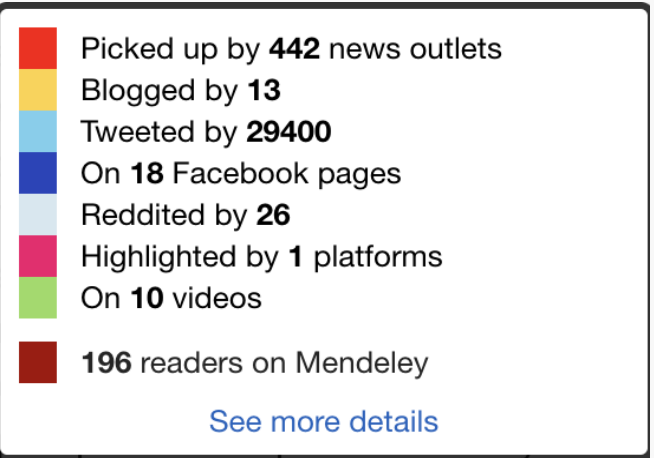




TCC Africa and Figshare are partners in our mission to support African College and University Libraries to transition to the adoption of the latest Open Science technologies and FAIR principles, in order to increase the profile, locally and internationally, of African science, and its impact on the life of Africans.



Figshare is supporting capacity building by increasing research output ,visibility & sovereignty



- Figshare allows individual researchers to freely and FAIRly, upload, share, access, store and get credit for all their research outputs.
- Working with sister organizations, **Altmetric and Dimensions**, outputs in Figshare have visible bibliometric information including citations and alternative metrics.
- User-friendly metadata creation, encouraging **Findable, Accessible, Interoperable and Reusable (FAIR)** research outputs.



Part of **DIGITAL**science



showcase your institution's research outputs in one place

figshare.com

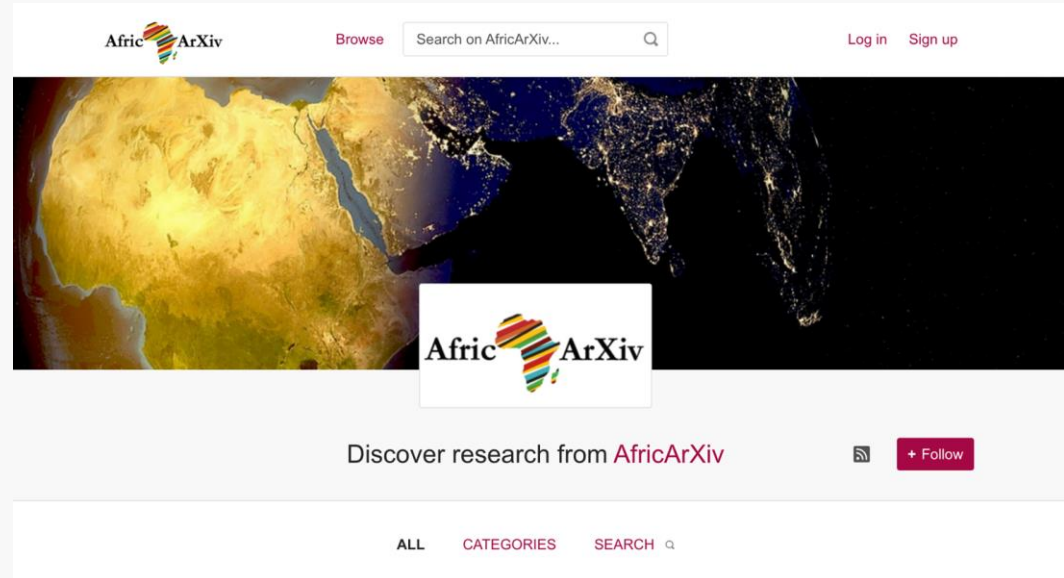
[@figshare](https://twitter.com/figshare)

Figshare on Africa for Africa

Figshare contributes to AfricArXiv, the Pan-African open access repository which collects research outputs:

- by African researchers
- non-African researchers working on African topics

Figshare provides equitable pricing, using the same country categories (A&B) as the Research4Life programme, as set by the World Bank






4








❖ Establishing ORCID-facilitated multi-stakeholder consortia for efficient scholarly knowledge exchange

- Facilitating African institutional reputation building by enabling institution-owned scientometrics
- Stocktaking of existing institutional digital scholarly infrastructure
- Complementing existing infrastructure with added digital features and services
- Ensuring adoption of PIDs   
- Fostering best possible discoverability and indexing in open scholarly databases such as [The Lens](#), [BASEsearch](#), a.o.



❖ **Establishing ORCID-facilitated multi-stakeholder consortia for efficient scholarly knowledge exchange**

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Way forward

Establishing local hosting of the AfricArXiv submission portal

- + ensuring physical ownership and curation of research data to African stakeholders
- + utilizing open-source package/s (PKP/OPS - COS/OSF - InvenioRDM - ...)



Facilitating the setup of cloud-based University Presses

- + Establishing African University Presses and thereby empowering their institutions
- + Following the JISC University Press Toolkit




Guide

New university press toolkit

Supporting and giving guidance to new university presses and library-led publishing ventures.

Fostering community-based publishing workflows and quality assessments

- + preprint to journal article aka post publishing quality 
- + Community based Open Peer Review 
- + supporting African publishing institutions and the wider ecosystem in the region



helix

ANALYTICS Africa



Open Science 4 Industry



Data 4 Impact

We promote "data for impact (D4I) " by leveraging on Open Science and modern data infrastructure to enhance public insights.



Our Industries

Business Process Optimization

+ Healthcare

+ Agriculture

+ Logistics & Transport

+ Manufacturing

Higher Education and Research

+ Higher Learning Institutions





Africa PID Alliance

A community of **PID** enthusiasts in and from Africa aiming to lead and realize a **FAIR** sharing of access and data through the use of Persistent Identifiers in innovation, research and technology within the cultural, scientific and cross-industry ecosystems.





Africa PID Alliance

Launching

Partners



**African Library &
Information Associations
& Institutions**



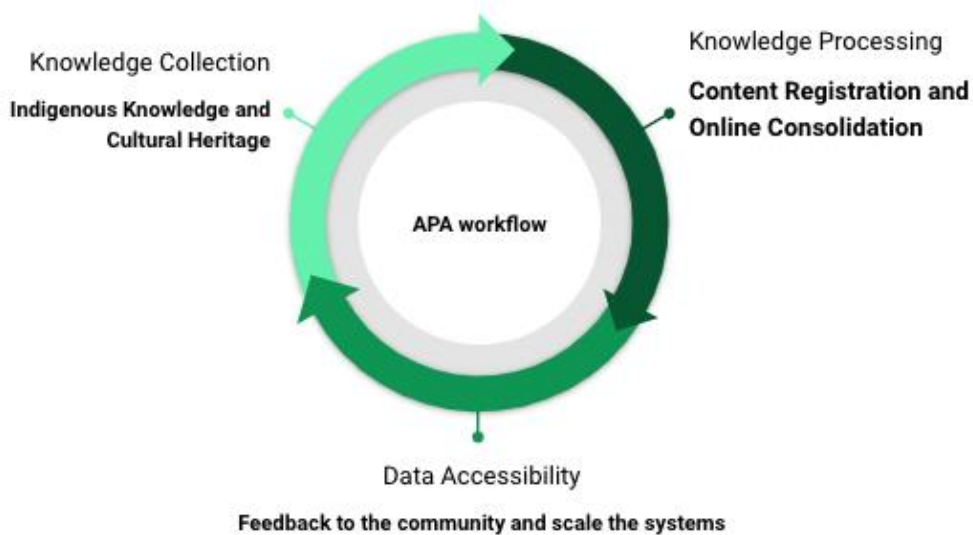
Community

Engagement Drivers





Africa PID Alliance



We invite you to collaborate with APA!



Let's Connect



info@tcc-africa.org



www.tcc-africa.org

[@tccafrica](https://twitter.com/tccafrica)



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