Africa in Science

in Science

Website | Database | ThinkTank

Tracking the scientific output of research in Africa.

Africa in Science (AiS):

Website | Database | ThinkTank

Monitoring the **numbers** and **trends** behind **scientific research progress** in **Africa,** and **uncovering under-researched and neglected topics.**

Who We Are

Africa in Science (**AiS**) is an online platform and Think Tank that tracks, analyses, visualises and evaluates the scientific research output of academic and research institutes in Africa.

AiS Online

Our website and Africa-centric database serve as an open access hub that informs the world about science in Africa.

AiS ThinkTank

Our reports and reviews aim to rationalise the impact of education, human development and socio-economic status on research in Africa.

AiS Community

AiS lectures and bitesize videos promote knowledge and collaboration between scientists in Africa and around the globe.

What We Do

AiS publishes free-to-access **original infographics, research articles and bespoke scientific reports** and **reviews** that aim to **highlight the impact** of **education, human development and socio-economic status** on **scientific research** in **Africa**, and **bring to the fore under-researched topics in Africa**.

Online

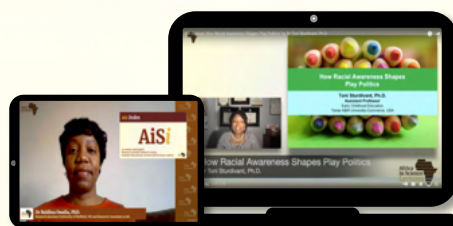**AiS Website & Database**
Track, Analyse, Evaluate & Visualise.

On Video

AiS Lectures & Bitesize
Teach, Inform, Mentor & Educate.

In Print

AiS Reports & Articles
Understand, Relate, Articulate & Promote.

For more information, visit www.africainscience.org from January 2021.

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AiS Inspiration

The **AiS** initiative was inspired by a 2016 article published in the scientific journal **Nature** that described the "*science-led recovery*" of Rwanda from "*killing fields to Technopolis*".

Today, **AiS** website and Africa-centric database monitor and store the scientific research output of Africa-based academic and research institutes and organisations, and its cloud-based software analyses, visualises and evaluates the trends behind the recent scientific research progress in Africa.

AiS ThinkTank utilizes our Africa-centric metrics and analytics to conduct data-driven research that aims to better understand the impact of educational, human development and socio-economic status on scientific research output of universities and institutes in Africa.
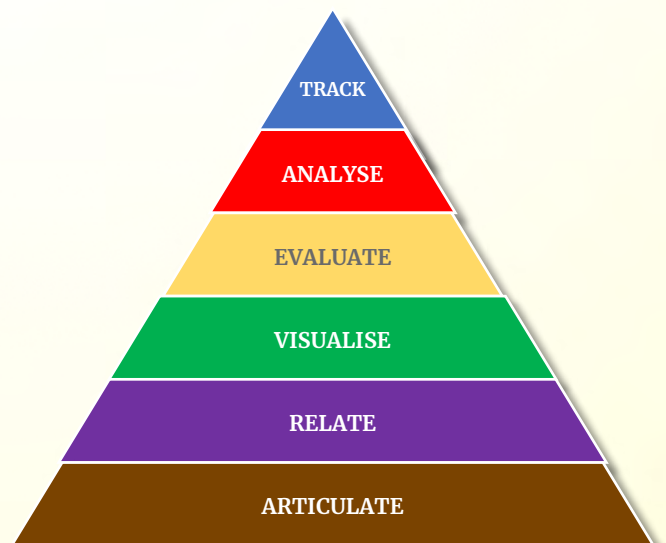

AiS Vision

In recent years, the number of scholarly articles published by universities in Africa has risen dramatically. However, the impact of education and socioeconomic status on research output by Africa-based institutes has received little attention from a scientometric perspective.
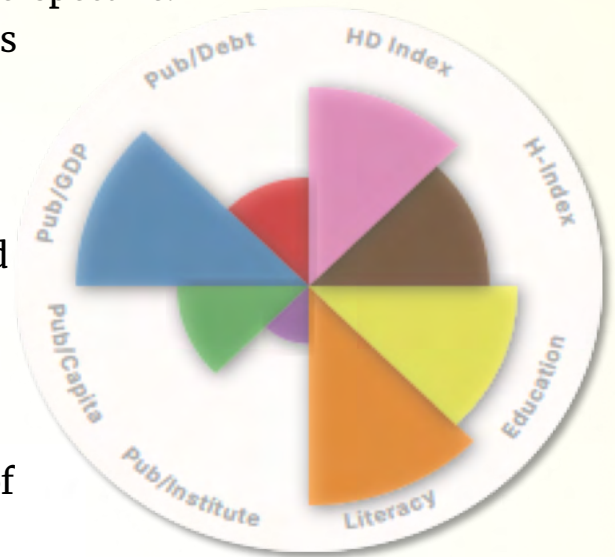
We, at **AiS**, believe that research into issues and diseases that originate and affect populations should be led and conducted by local and regional academic and research institutes.

Our vision is to create a data-driven, evidence-based mechanism that tracks and evaluates the quality of the scientific output of Africa-based institutes, whilst taking into account the impact of education and socio-economic status and making the data accessible to researchers, organisations, governments, philanthropists, pharmaceutical companies, private investors and members of the public.
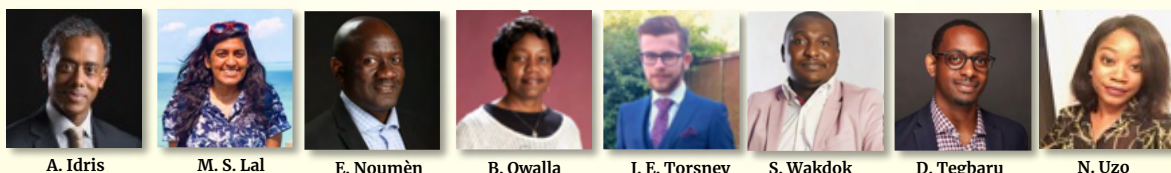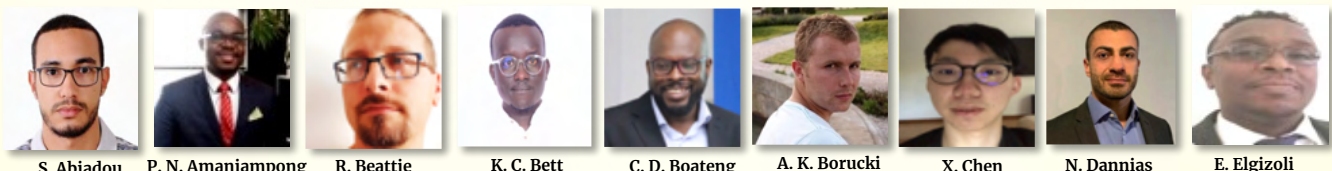

TRACK

ANALYSE

EVALUATE

VISUALISE

RELATE

ARTICULATE

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AiS Mission

- Monitor the numbers and trends behind scientific research progress in Africa.
- Uncover under-researched and neglected topics in Africa and shed light on the impact of education, human development and economic and societal sectors on research by Africa-based institutes - from a scientometric perspective.
- Raise global awareness of scientific opportunities within Africa.
- Strengthen local and regional collaborative networks within the African continent.
- Engage with researchers in Africa and its diaspora as well as other communities interested in science in Africa.
- Contribute to the continued growth of science in Africa.
- **AiS** engages with researchers in Africa and its diaspora to contribute to the continued growth of science in Africa by mentoring and providing apprenticeships to early-career professionals in the fields of scientometrics, bibliometrics, publishing, software development, basic and clinical research and cloud engineering.

AiS Team

Members of our dynamic international team bring together over 50 years' worth of combined experience in the fields of Data Science and Analytics, Basic and Clinical Research, Law, Global and Public Health, Economics and Software Development.

S. Abiadou   P. N. Amaniampong   R. Beattie   K. C. Bett   C. D. Boateng   A. K. Borucki   X. Chen   N. Dannias   E. Elgizoli

A. Idris   M. S. Lal   E. Noumèn   B. Owalla   J. E. Torsney   S. Wakdok   D. Tegbaru   N. Uzo

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AiS Online Hub

Our website at **www.africainscience.org** is a free-to-access hub that utilizes its Africa-centric database to

- Tracks the publication of peer-reviewed scientific articles by universities and institutes in Africa.

- Relates articles and authors' information to educational and socio-economic indices such as Growth Domestic Product (GDP), capita, literacy rate, education, gender parity, corruption indices, H and Human Development indices and external debt.

- Presents in a user-friendly format, a plethora of pre-recorded video lectures, analytical schematic, graphs, diagrams, tables and schematics that include **AiS** badge and Index.

AiS website aspires to serve as a knowledge hub that informs researchers, organisations, governments, funding bodies philanthropists, pharmaceutical companies, private investors as well as members of the general public in Africa and around the globe about the scientific output and merit of basic and clinical scientific research in Africa-based institutes and universities.

AiS ThinkTank

Our ThinkTank conducts research that aims to better understand the link between the scientific research output and merit of academic and research institutes in individual African countries and the impact of educational, societal and economic sectors.

This data-driven approach will

- equip governments, organisations and investors with the data and knowledge required to aid efficient allocation of grants, subsidies and investment in science in Africa.

- lead to greater understanding and knowledge that will ultimately help to formulate new strategies for better support for scientific research in Africa.

- In the long-term, further cultivate the growth and output of scientific research by academic and research institutes in Africa.

AiS Index

AiS Index (**AiSi**) is a country-level statistic composite index that balances scientific output with educational, human development and socioeconomic status.
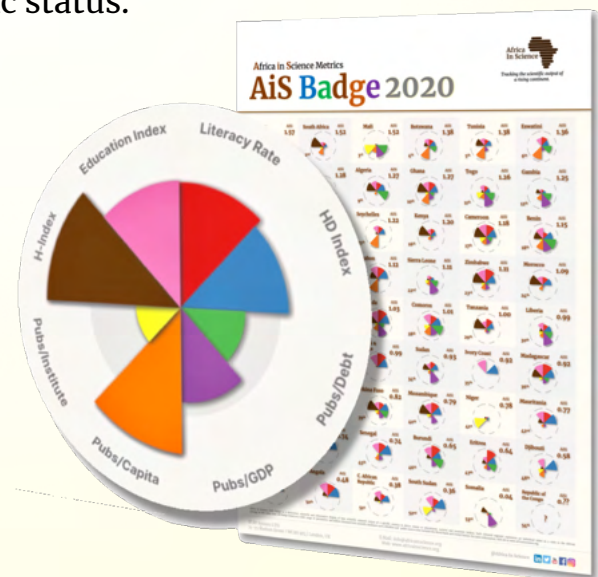
The data used to calculate AiSi draws on a wide range of metrics that include Growth Domestic Product, capita, literacy rate, education, gender parity, H index and Human Development index, external debt, which are obtained from public sources such as the World Bank, United Nation, Wikipedia and Transparency international and many others. Indices related to scientific research output presented in AiSi are obtained from scientific databases that include Medline, Dimensions and many other publicly-available datasets and databases.

AiS Badge

AiS Badge is a novel, distinctive, colourful and informative data metric that visualizes the link between scientific research output of a specific country in Africa and a plethora of educational, human development and socioeconomic status.

The data presented in each segment of **AiS** Badge draws on a wide range of individual metrics that include Growth Domestic Product, capita, literacy rate, education, gender parity, H index and Human Development index, external debt, which are obtained from public sources such as the World Bank, United Nation, Wikipedia and Transparency international and many others. Indices related to scientific research output presented in the Badge segment are obtained from scientific databases that include Medline, Dimensions and many other publicly-available datasets and databases.
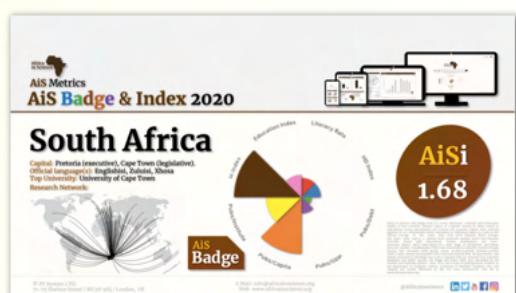
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AiS Publications

AiS publishes a variety of free-to-access infographics at www.africaincience.org and on social media, as well as original research articles in peer-reviewed scientific journals and international conferences and gatherings. AiS ThinkTank publishes bespoke scientific reports and research reviews that aim to understand the impact of education, human development and socio-economic status on scientific research in Africa.

Infographics

AiS Index & Badge
Posters & infographics

Reports

AiS Annual Reviews &
Bespoke Reports

Articles

AiS Peer-Reviewed Original
Research Papers & Reviews

AiS Videos

AiS presents two video series of pre-recorded lectures and bitesize videos that feature under-researched and neglected topics and issues in Africa. Lectures and Bitesize videos feature members of the international community of professionals and experts with a keen interest in the issues impacting scientific research in Africa. To find out more or take part in lectures and bitesize video series visit AiS website, or email us at info@africainscience.org.

Support Us

AiS relies on support from a wide range of sources and there are many ways that you can help and care for our unique platform and related resources. Your support and investment will help foster a unique Africa-centric database, online hub and an international, independent ThinkTank that aim at enhancing the global reach of the research and scientific output of the rising continent, Africa.
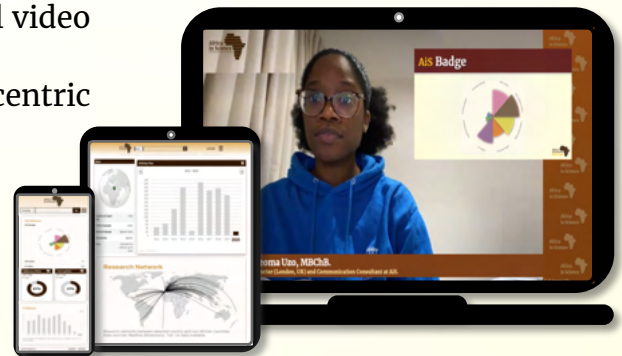
Your support in **AiS** will help us:

- Monitor the numbers and trends behind scientific research progress in Africa.
- Uncover and bring to the fore under-researched and neglected topics in Africa.
- Shed light on the impact of education, human development and economic and societal sectors on research by Africa-based institutes - from a scientometric perspective.
- Presents video lectures that bring to the fore under-researched and neglected topics by Africa-based institutes.
- Publish reports that raise global awareness of scientific opportunities within Africa.
- Strengthen local and regional collaborative networks within the continent.
- Engage with local and global communities interested in science in Africa.
- Contribute to the continued growth of science in Africa.

This will be achieved through:

- Scientometric analysis that includes **AiS** unique Africa-centric metrics that are shared with our community in and outside Africa.
- Publishing independent, multi-disciplinary scientific research reports, annual reviews and educational video lectures.
- Expansion and protection of our unique Africa-centric database.
- Maintenance and improvement of our website.
- Partnering and supporting like-minded initiatives in Africa and around the globe.
- Direct support of research in Africa through research fellowships.
- Mentoring and providing apprenticeships at **AiS** to early-career professionals in the fields of Data Science and Analytics, Basic and Clinical Research, Law, Global and Public Health, Economics and Software Development.

To find out more about the different ways to invest in **AiS**, you can request a virtual meeting with our team via info@africainscience.org or visit www.africainscience.org/support.

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