

THE 2024 World University Rankings

Data Masterclass – Africa

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Agenda

World University Rankings 2024

Methodology Review

Africa Trends and Analyses

How to participate

Sub-Saharan Africa University Rankings



50+ Years of Insights

To help universities understand their position against their mission.

To help **students** find and access the university best suited to their abilities and aspirations.

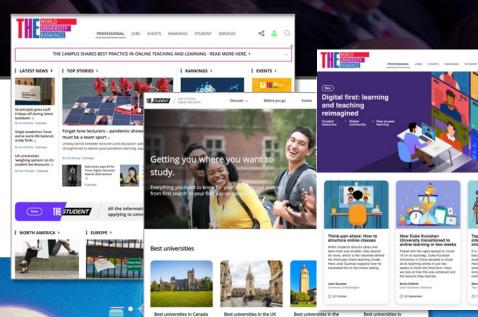
To help **higher education** deliver transformational teaching,

research and innovation.

1971



2023





Our Rankings

TEACHING





Focus: student satisfaction, employer reputation, graduation rate + more

Participation rules: country specific

RESEARCH





Focus: research output, research quality, research collaboration, reputation + more

Participation rules: 1,000+ publications over 5 years, teach undergraduates across a range of subjects

IMPACT & SUSTAINABILITY



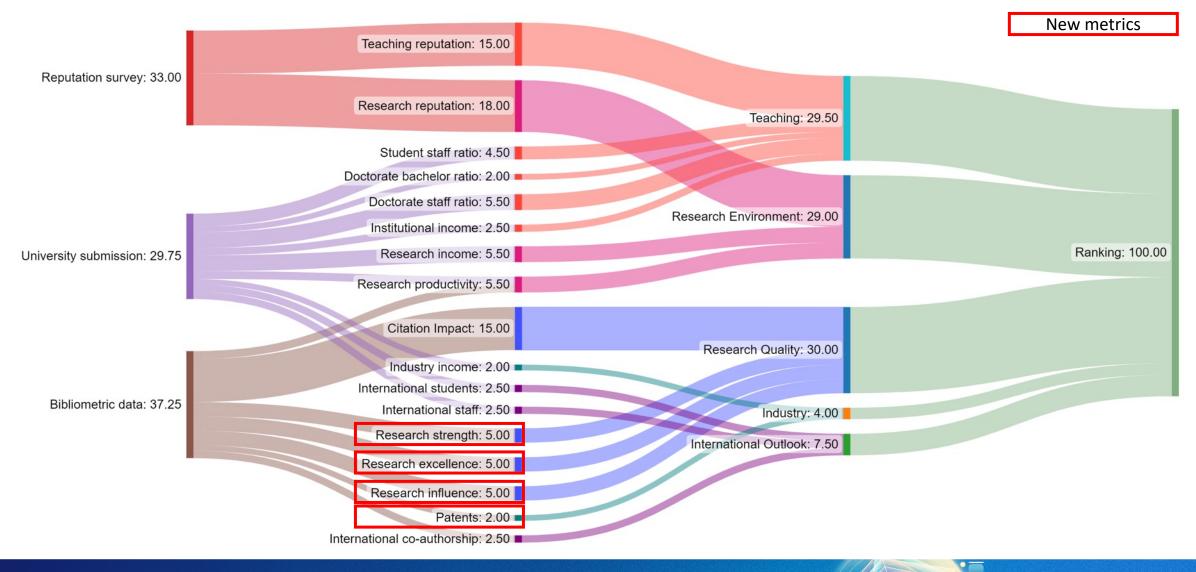


Focus: research, teaching, stewardship and outreach against the UN's 17 Sustainable Development Goals

Participation rules: all UG or PG higher education institutions



Methodology







The world's biggest university ranking

Universities

The world's biggest university ranking

Universities submitted data

Number of countries represented

Bibliometrics

In partnership with **ELSEVIER**

Research papers

16.5m 134m

Citations

Universities Data

The world's largest data gathering exercise from universities

Data values

411,789

Data queries resolved

Academic Survey

The world's largest academic survey

Respondents

68,402

Votes

944,509

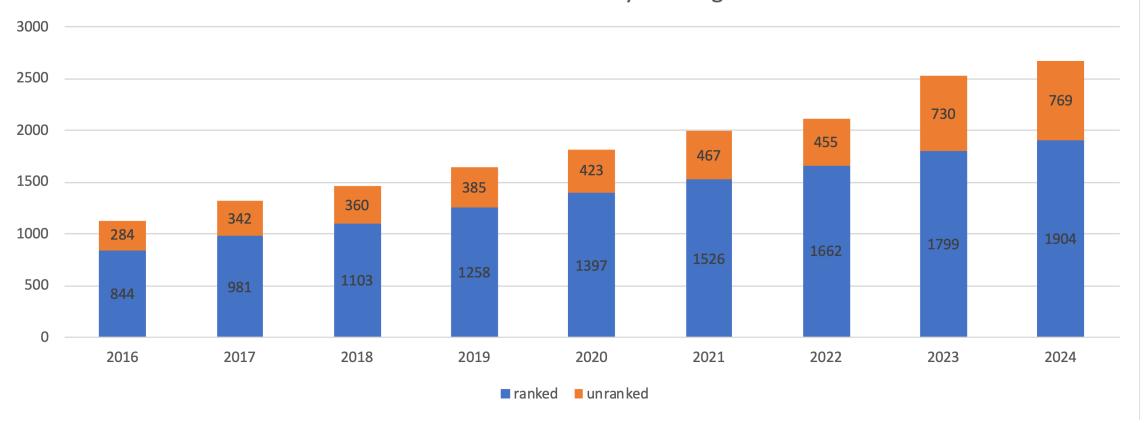
Countries

166

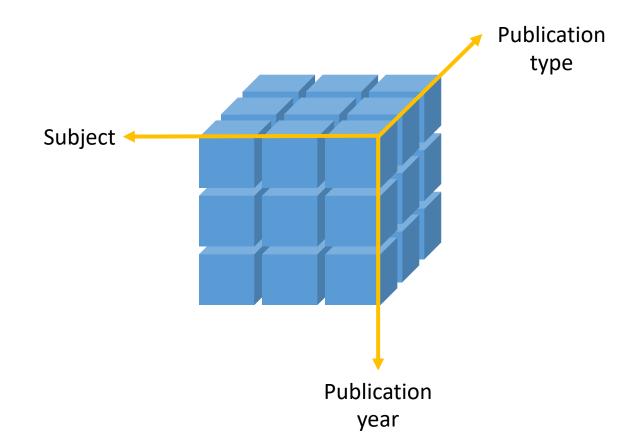


20th Anniversary of THE World University Rankings

Number of universities which submitted data to THE World University Rankings



What is Field Weighted Citation Impact?



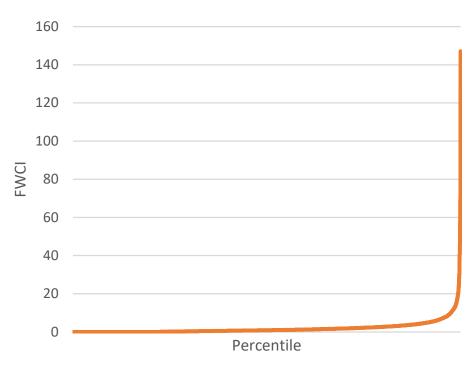
Let's say I published a <u>journal article</u> in <u>2019</u> on <u>artificial intelligence</u>, and it received 6 citations so far...

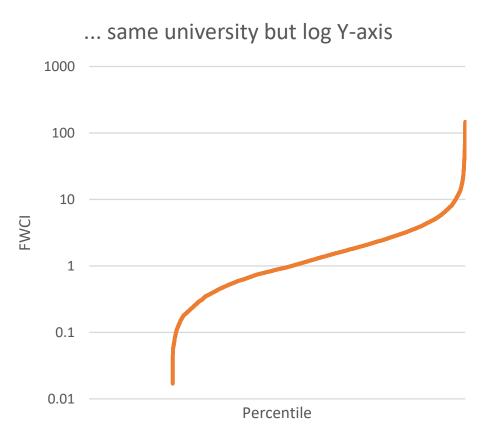
...and the average number of citations received by publications of the <u>same</u> type, <u>same year</u> and <u>same subject</u> is 2...

...then the FWCI of this publication is 6/2 = 3

What about FWCI of an author or an institution?

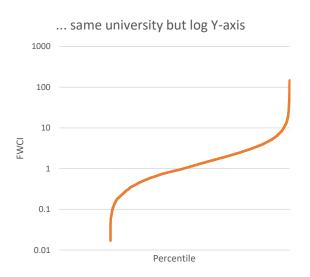






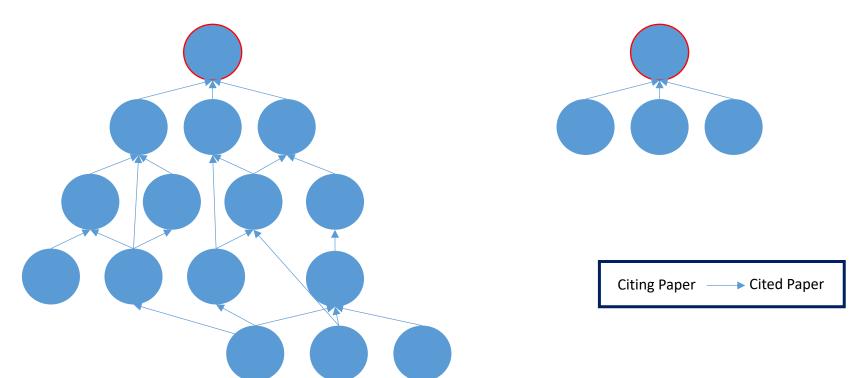
THE World University Rankings Research Quality Metrics

- Citation Impact Mean FWCI of an institution's output, but with tweaks
 - Kilo-author papers
 - Country normalisation
- Research Strength 75th percentile FWCI of an institution's output
- Research Excellence Number of papers in top 10 percent by FWCI
- Research Influence Different from others research quality metrics
 - Not all citations are created equal
 - Citations from important papers counts more
 - How to define "important papers"?



Research Influence - Papers

Both papers have 3 citations. Which one is likely to be more "influential"?

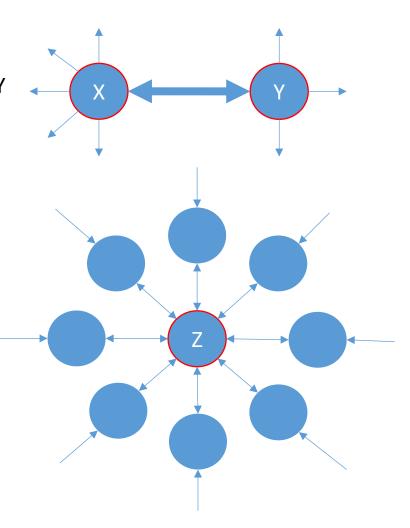


Research Influence - Universities

In Computer Science in 2022:

- University X has a set of papers with 1000 citations, all from University Y
- University Y has a set of papers with 900 citations, all from University X
- Papers from X & Y universities do cite other universities papers
- University Z has a set of papers with 800 citations, from universities around the world, including universities who receive over 10000 citations for all their papers

Papers from University Z had the least citations, but it is the most influential university of these 3.



Research Influence – What is it?

Research Influence looks at the network of citations around papers to understand what impact they are having around the world.

In essence, it works like a popularity contest for papers. It's not just about the quantity of citations but also the quality, with citations from reputable papers carrying more weight.

Each paper gets an influence score based on how many other papers cite it and how influential those citing papers are. If a lot of influential papers cite a paper, it gets a higher influence score.

The calculation for Research Influence is based on Google's "Page Rank" algorithm.

Research Influence – How it works

Papers start with the same influence

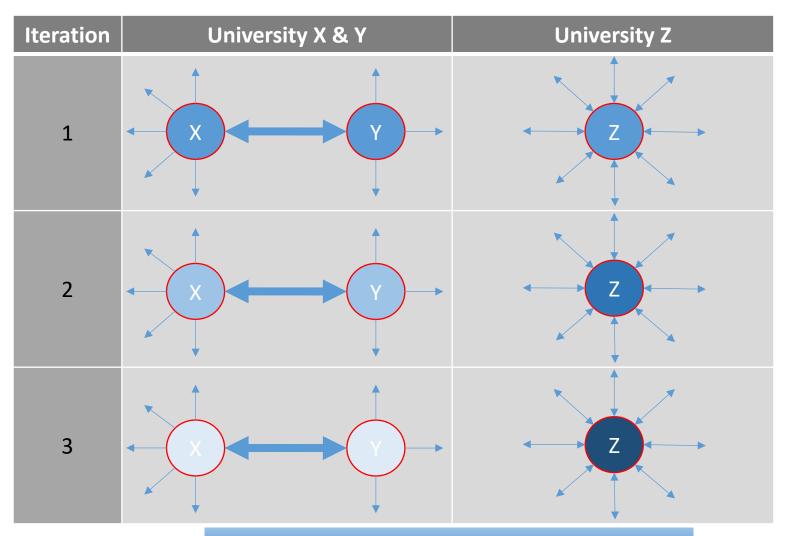
We can then think of some of a papers influence being shared amongst the papers it cites

This process is repeated multiple times through a number of iterations (page rank is an iterative algorithm)

The effect is that papers that are well connected receive more influence scores than from papers that aren't

This is then rolled up to the university level to calculate university influence

The diagram shows the effect at university level which is an aggregation of the papers produced by the university; this is done to aid understanding. The algorithm works at the paper level.



Deeper Blue indicates more Research Influence



Industry: Patents

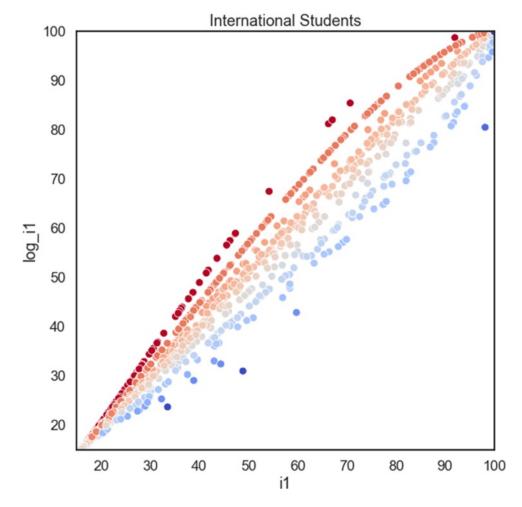


- The extent to which universities are supporting their national economies through technology transfer is an area that deserves greater recognition. We will be introducing an additional measure.
- Directly measures research output, specifically how much an institution's research is cited by patents.
 This is similar to one that we already use within the THE Impact Rankings (in SDG 9: Industry, Innovation and Infrastructure).
- This measure is subject weighted to avoid penalising universities producing research in fields low in patents.
- This is a count of patents, normalised by staff numbers.



International Outlook

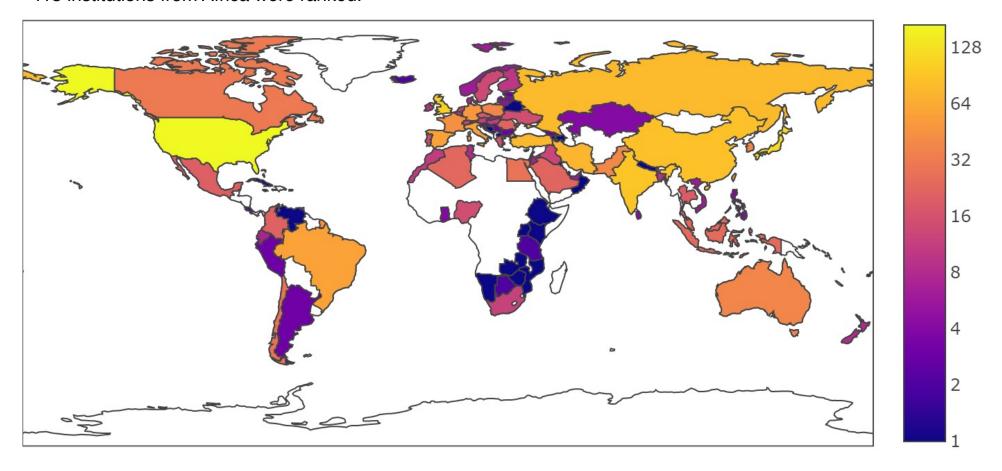
- Large countries had been disadvantaged compared to small countries in our international metrics, in that it is "easier" for staff and students in small countries to work/study abroad.
- The existing metrics is now normalised to account for the populations size:
 - Proportion of international students
 - Proportion of international staff
 - Proportion of publications with at least one co-author from an international institution
- New Studying abroad metric at zero weight



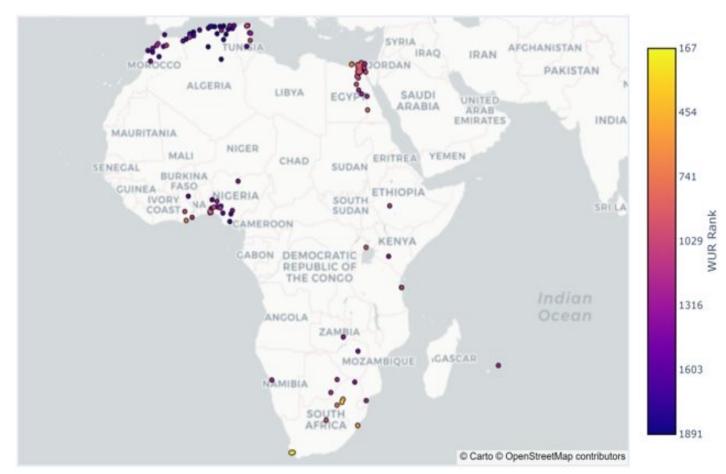


Universities per country/region in the World in WUR 2024

There are a total of 1904 institutions in The World ranked in the World University Rankings 2024, from 108 countries 113 institutions from Africa were ranked.



Representation and Growth



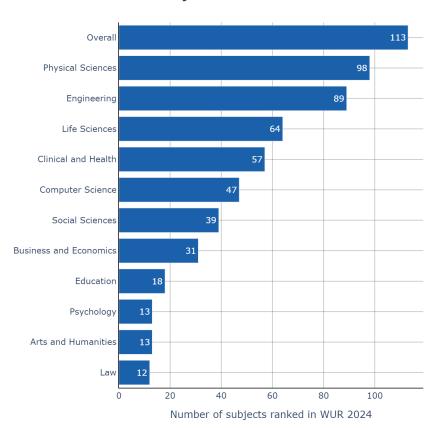
	The World	Africa
2018	1258	48
2019	1397	57
2020	1526	63
2021	1662	71
2022	1799	97
2023	1904	113

The top ranked university in Africa is University of Cape Town, which is ranked 167th

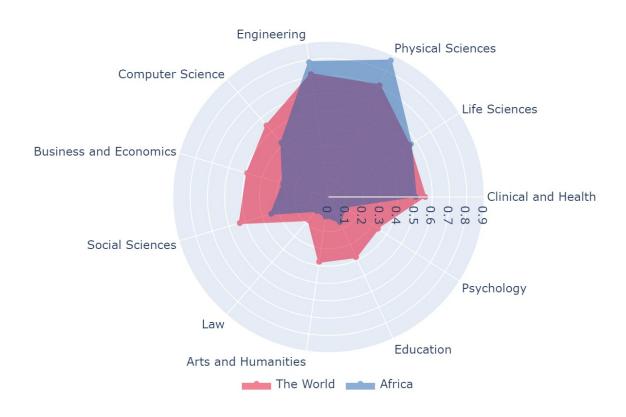


Representation & Growth

Africa subjects ranked in WUR 2024



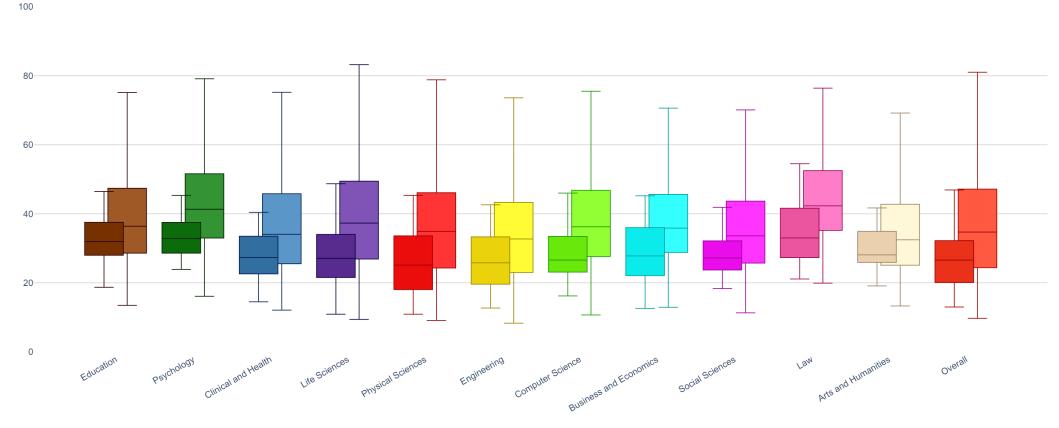
Percentage of universities with subjects ranked in WUR 2024



Across Africa, Physical Sciences was the most frequently ranked subject in 2024 where it was ranked for 98 universities. Law was the least frequently ranked subject in 2024 with just 12 universities ranked.

Africa vs the World WUR 2024 subjects comparison

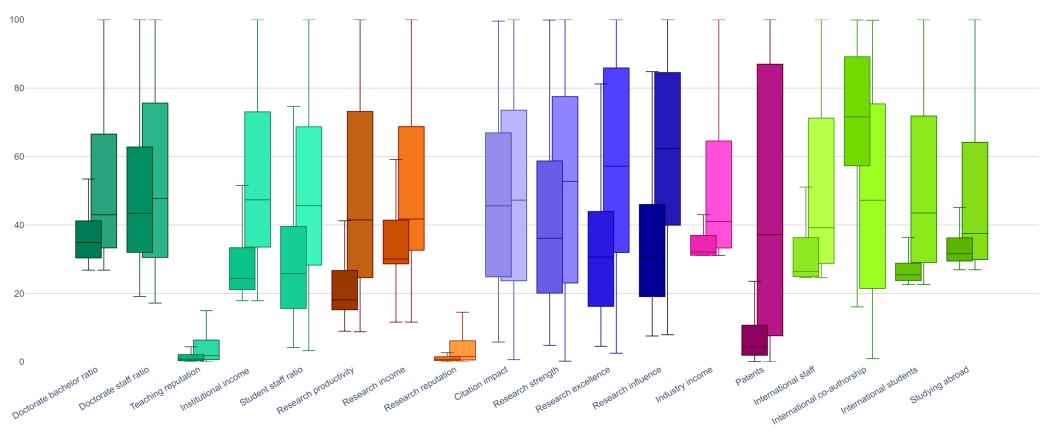
Africa vs The World World University Rankings 2024 subjects boxplot



The boxes for Africa are on the left, the boxes for The World are on the right

Africa vs the World WUR 2024 metrics comparison

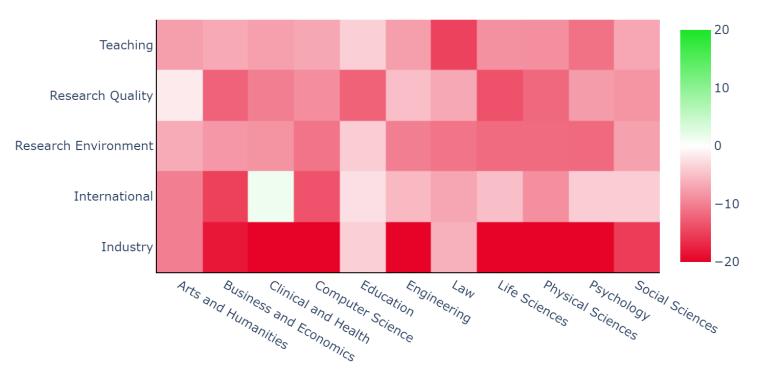




The boxes for Africa are on the left, the boxes for The World are on the right

Africa vs the World WUR 2024 comparison heatmap





High Growth Areas

Clinical and Health - International Arts and Humanities - Research Quality Education - International

Education - Industry

Education - Teaching

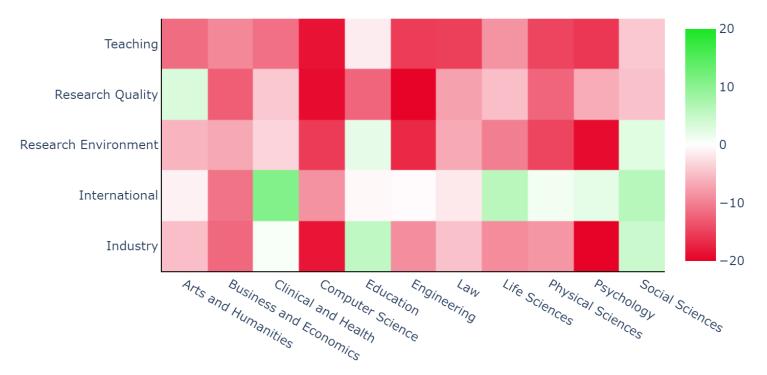
Low Growth Areas

Computer Science - Industry Engineering - Industry Life Sciences - Industry Physical Sciences - Industry Psychology - Industry

The heatmap shows the difference in scores between Africa and The World, with green representing a higher score for Africa

Africa vs the World Top 500 comparison heatmap





High Growth Areas

Clinical and Health - International Social Sciences - International Life Sciences - International Education - Industry Social Sciences - Industry

Low Growth Areas

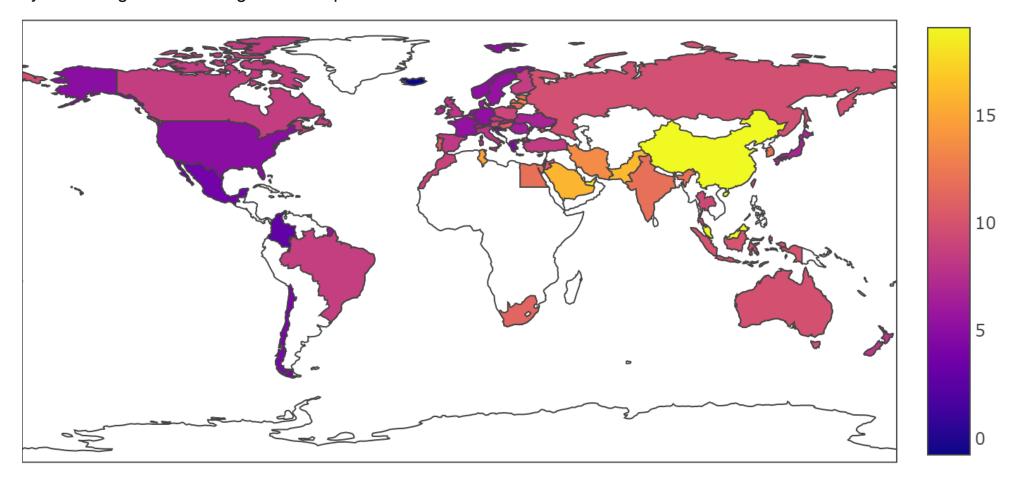
Psychology - Industry
Engineering - Research Quality
Computer Science - Research Quality
Psychology - Research Environment
Computer Science - Teaching

The heatmap shows the difference in scores between Africa and The World Top 500, with green representing a higher score for Africa

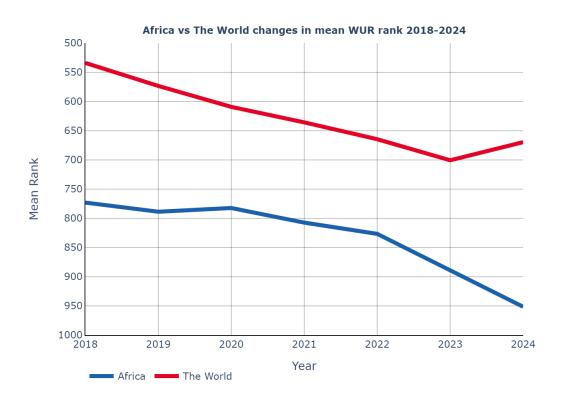


Countries/Regions average WUR score changes 2018-2024

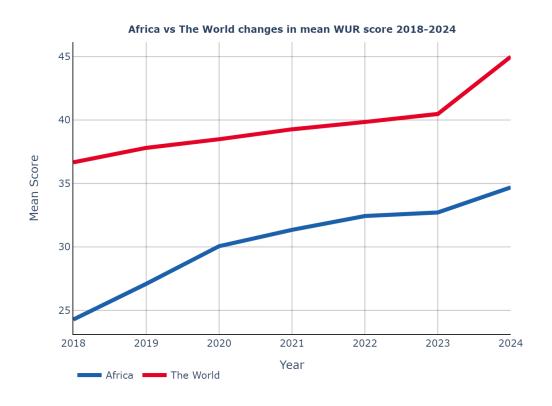
The WUR Score for Africa has increased by an average of 10.4 between 2018 and 2024, The World has increased by an average of 8.3 during the same period.



Africa vs The World 2018-2024 Overall WUR changes



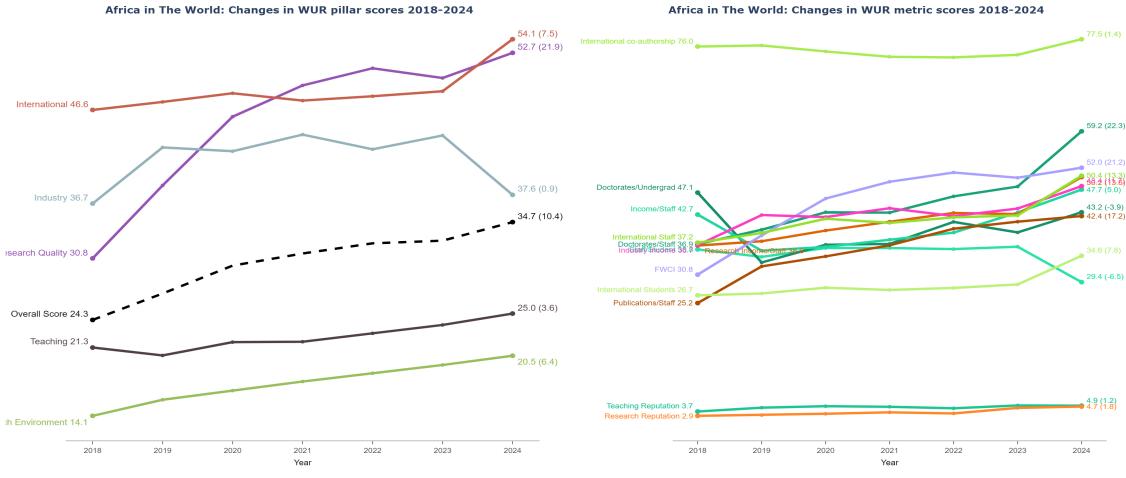
The WUR rank for Africa has decreased by an average of 178 between 2018 and 2024, The World decreased by an average of 136. Note that the number of universities in WUR has risen from 1103 in 2018 to 1904 in 2024.



The WUR Score for Africa has increased by an average of 10.4 between 2018 and 2024, The World has increased by an average of 8.3 during the same period.



Africa in The World changes in WUR scores 2018-2024



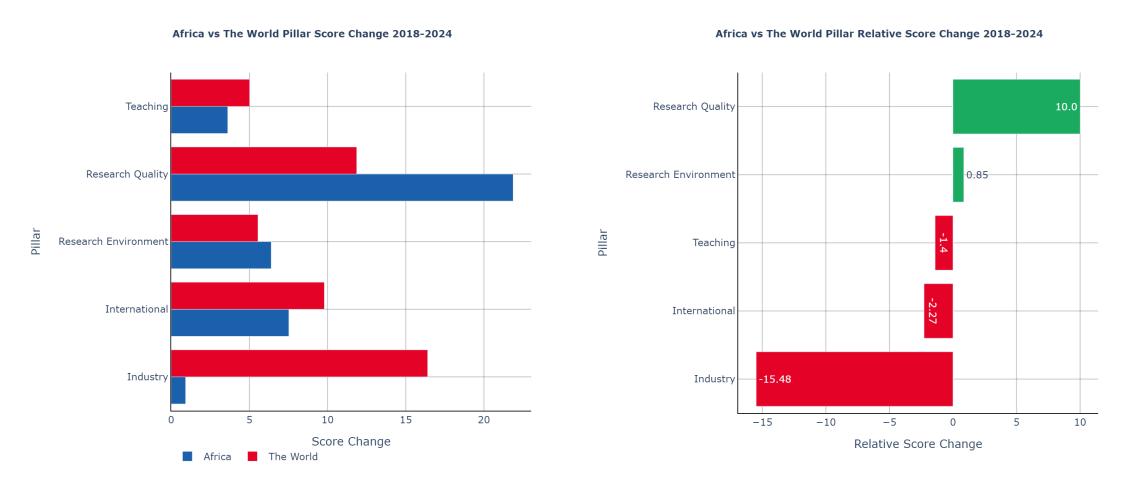
Between 2018 and 2024, the Doctorates/Staff score has increased by an average of 22.3. Conversely, the Staff/Student score has decreased by an average of 6.5



average of 21.9.

Between 2018 and 2024, the Research Quality score has increased by an

Africa vs The World 2018-2024 Pillar changes



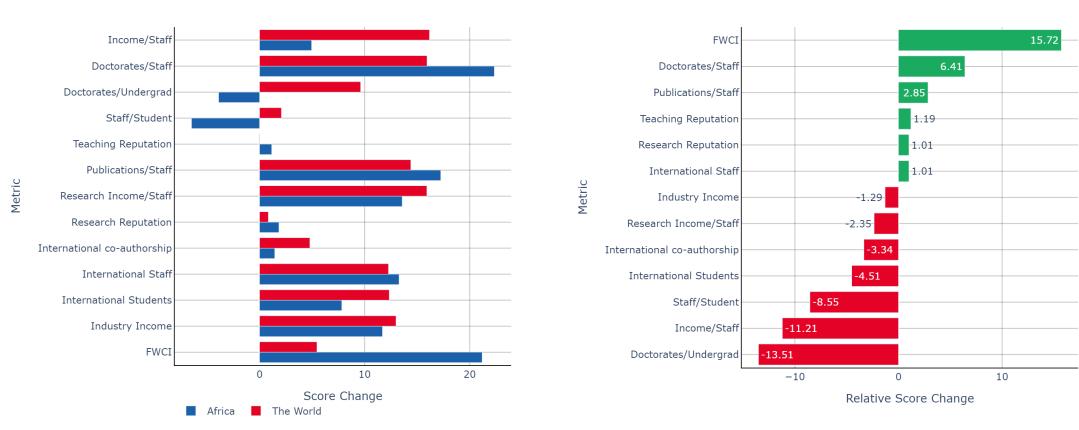
Between the years 2018 and 2024 Africa has improved in the Research Quality, Research Environment pillars in comparison with The World, but has dropped in Industry, International, Teaching



Africa vs The World 2018-2024 Metric changes



Africa vs The World Metric Relative Score Change 2018-2024



Between the years 2018 and 2024 Africa has improved in the FWCI, Doctorates/Staff, Publications/Staff, Teaching Reputation, Research Reputation, International Staff metrics in comparison with The World, but has dropped in Doctorates/Undergrad, Income/Staff, Staff/Student, International Students, International co-authorship, Research Income/Staff, Industry Income



Eligibility Criteria

Participation in THE World University Rankings (or any other THE rankings) is always free of charge. However, there is a set of eligibility criteria

- Must teach at undergraduate level
- Publication requirements
 - At least 1000 publications in 5 years
 - At least 150 publications each year
 - Separate publication requirements for the subject rankings
- Must not be a subject specialist



How to take part

We need your help for the institutional data

1. Nominate a Data Provider

A Data Provider for your institution will need to be nominated.

Please email us at profilerankings@timeshighereducation.com

2. Connect to the Portal

Your Data Provider will receive login details to connect to the Data Collection Portal

The Portal will be open between 8 January and 30 March 2024



Data Collection Portal 1/3



Home | Profile Rankings | Select your language | Help | Administration | Logout

World University Ranking 2022

Complete the stages of the data collection process

THE- Times Higher Education World

Introduction Institution Profile Data Notes Review, print & submit

Welcome to the Times Higher Education (THE) World University Rankings data collection portal.

The secure portal is structured to collect accurate and detailed information to enable us to develop a detailed, multifaceted performance profile of your institution to create the *THE* World University Rankings and related specialist rankings.

Please note that this portal is directly managed by Times Higher Education and is the only source of institutional data for the THE World University Rankings. The information that you submit will be combined with other sources of data and used to create a comprehensive and representative picture of your institution and of others around the world.

Only by submitting data via this portal can your institution be considered for inclusion in the THE World University Rankings and multiple related publications and products.

Thank you for taking the time to participate in this important global research project.

Please download our quick-start guide which explains the key aspects of the data collection process and how to navigate your institution's data collection portal account. We recommend that you read the information before you begin your data supmission and refer to it during completion of the data collection process.

English user guide	🔁 Arabic user guide	Mandarin user guide	German user guide
	talian user guide	🔁 Japanese user guide	Korean user guide ✓
-	-		-

Data collection materials are available for download in 12 languages



Data Collection Portal 2/3

We collect **data** at the institution level and in our 11 subjects

- Staff and international staff
- Students and international students
- Undergraduate degrees awarded and doctorates awarded
- Income data

Since 2022: outbound exchange students

Art and Humanities

Business and Economics

Clinical and Health

Computer Science

Education

Engineering

Law

Life Sciences

Physical Sciences

Psychology

Social Sciences



Data Collection Portal 3/3

Introduction Institution Profile Data Notes Review, print & submit

Please provide information about the teaching and research activities of your institution. The more data that you share, the more meaningful your profile will be.

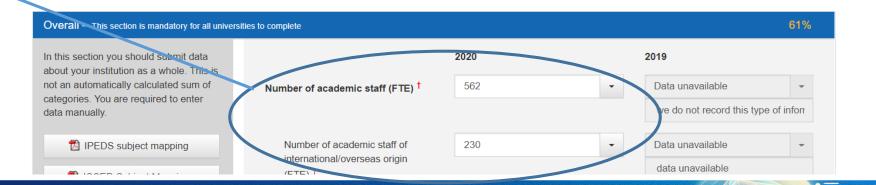
Please note that all information should be entered in English. Click on each of the sections below and complete your data.

Important notes

- · Please provide data about people as full-time equivalents (FTE), with no commas or thousand separators (e.g. 18742.5).
- Please note that the income data we request at the subject level (total institutional income, research income, research income from industry and commerce) needs to be broken
 down by subject. Please DO NOT replicate the income data from the overall level into the subject level. Ideally, any data at the subject level should add up to the data at the
 overall level
- Please provide monetary data in the currency selected and report in whole numbers (i.e. 17865456) with no punctuation. Thousands separators and decimal points are not permitted.
- If you are finding it difficult to complete the mandatory fields or in completing the form in English, please do not hesitate to contact us at profilerankings@timeshighereducation.com

Enter the data

All fields marked with a † are required in order to participate in the Overall Rankings. Note that this includes some subject fields. Additionally, fields marked with a * are also required in order to be eligible for the Subject Rankings.



Once you finish data entry, please go to this tab to review and submit your data



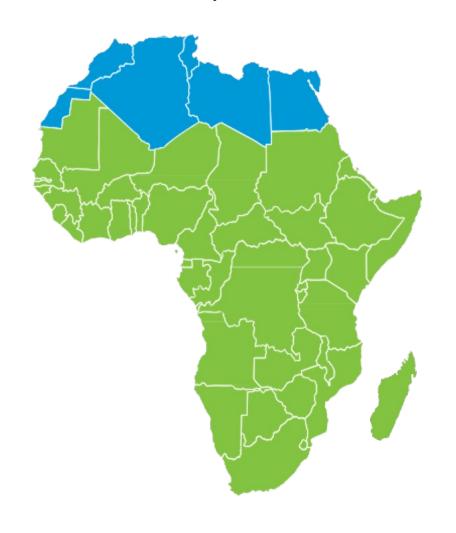




Sub-Saharan Africa University Rankings

Sub-Saharan Africa
University Rankings 2023
Powered by IIIE

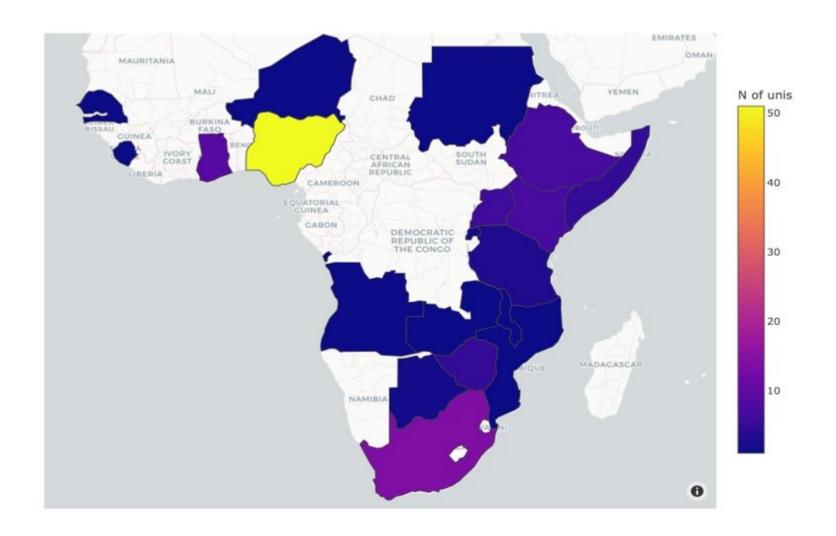
- In partnership with Mastercard Foundation, the rankings was developed by a consortium of African and international higher education organisations and Ghana-based Ashesi University in conjunction with THE's data team
- Closely tied to the United Nations' Sustainable Development Goals (SDGs) and the African Union's Agenda 2063
- The Sub-Saharan Africa University Rankings assesses
 universities based on five pillars: resources and finances,
 access and fairness, teaching skills, student engagement, and
 Africa impact





Sub-Saharan Africa University Rankings 2023

88 ranked institutions and a total of 120 submitted their data in SSA 2023



Sub-Saharan Africa University Rankings

Sub-Saharan Africa
University Rankings 2023
Powered by THE

We need your help for the institutional data

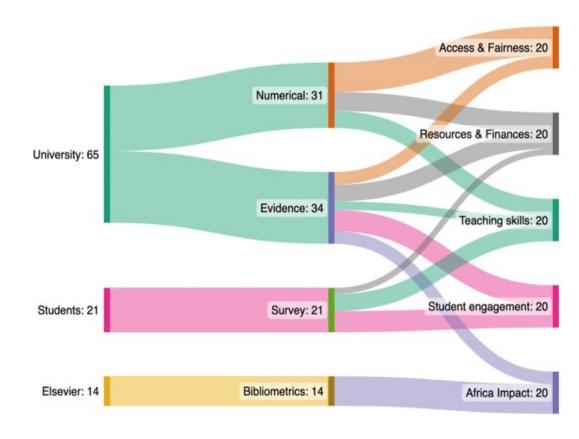
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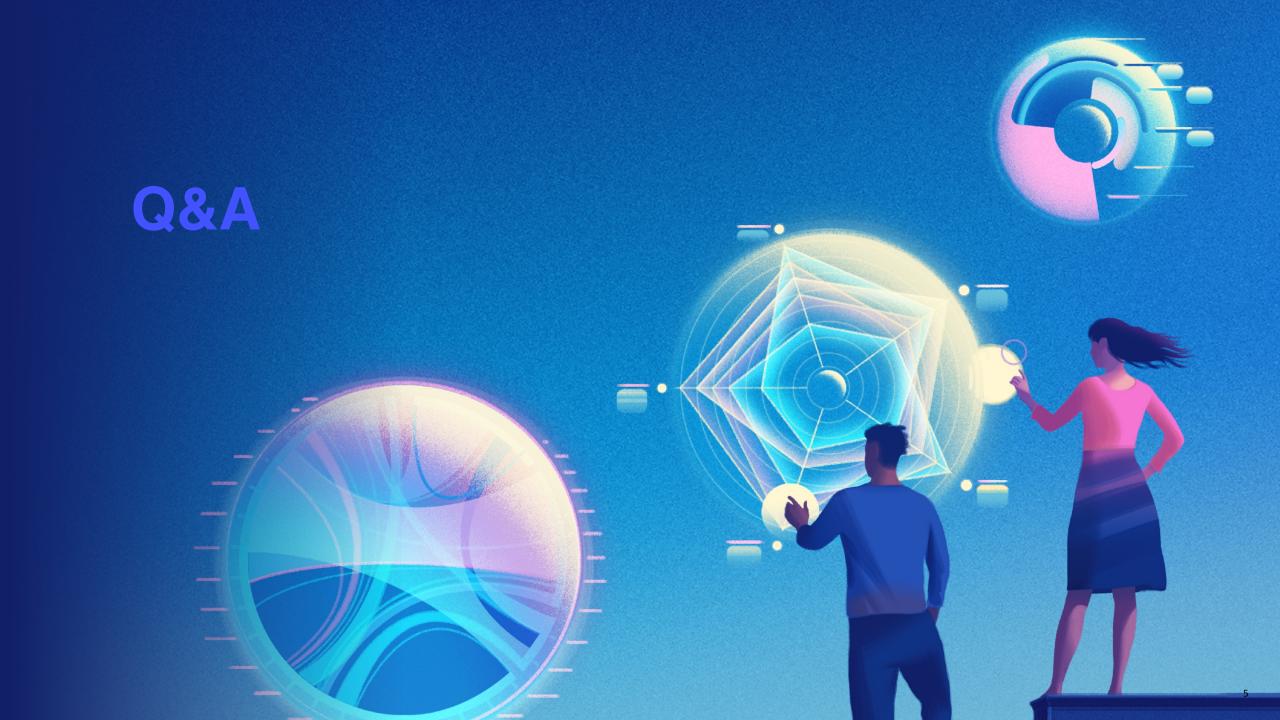
The Portal will be open for the next cycle in early 2024

3. Enter and Submit Data

Universities will be requested to submit 3 types of data: continuous data, evidence for policies and initiatives. We collected bibliometric data (via Elsevier).

Eligibility criteria: (1) offering undergraduate degrees and (2) a minimum of 50 responses per institution.





Explore more of THE's datasets

Would you like to assess the impact of WUR 3.0 on your ranking performance?

THE Consulting provides in-depth knowledge and bespoke analyses to help you navigate the changing world of global higher education Join THE Membership to receive these reports on an annual basis

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THE Membership

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Comprehensive country insights data is available in THE DataPoints via an interactive dashboard where you can access all datasets for all countries and territories.

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Participate in the Impact Rankings

Scan today:



Universities can submit to as many SDG's as they like, be it just one, or all 17



