



## SDG indicator codes as metadata in institutional repositories and scholarly indexing systems

Dr Jo Havemann, Access 2 Perspectives, Germany



in collaboration with

Dr Daisy Selematsela and Dr Lazarus Matizirofa, University of the Witwatersrand, South Africa



# Scholarly stakeholders are increasingly advocating for and working towards the achievements of the SDGs



Home > Impact Rankings 2023

# Impact Rankings 2023

The *Times Higher Education* Impact Rankings are the only global performance tables that assess universities against the United Nations' Sustainable Development Goals (SDGs). We use carefully calibrated indicators to provide comprehensive and balanced comparison across four broad areas: research, stewardship, outreach and teaching.

The 2023 Impact Rankings is the fifth edition, and the overall ranking includes 1,591 universities from 112 countries/regions.

[Read more...](#)




[How to get your uni ranked](#)

## EXPLORE IMPACT RANKINGS FOR INDIVIDUAL SDGs

|  |                                       |   |   |                                   |                                   |  |   |   |
|--|---------------------------------------|---|---|-----------------------------------|-----------------------------------|--|---|---|
| <p><b>OVERALL RANKING</b></p>                          | <p><b>1 NO POVERTY</b></p>            | <p><b>2 ZERO HUNGER</b></p>                         | <p><b>3 GOOD HEALTH AND WELL-BEING</b></p>              | <p><b>4 QUALITY EDUCATION</b></p> | <p><b>5 GENDER EQUALITY</b></p>   | <p><b>6 CLEAN WATER AND SANITATION</b></p> | <p><b>7 AFFORDABLE AND CLEAN ENERGY</b></p>             | <p><b>8 DECENT WORK AND ECONOMIC GROWTH</b></p> |
| <p><b>9 INDUSTRY INNOVATION AND INFRASTRUCTURE</b></p> | <p><b>10 REDUCED INEQUALITIES</b></p> | <p><b>11 SUSTAINABLE CITIES AND COMMUNITIES</b></p> | <p><b>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</b></p> | <p><b>13 CLIMATE ACTION</b></p>   | <p><b>14 LIFE BELOW WATER</b></p> | <p><b>15 LIFE ON LAND</b></p>              | <p><b>16 PEACE, JUSTICE AND STRONG INSTITUTIONS</b></p> | <p><b>17 PARTNERSHIPS FOR THE GOALS</b></p>     |

<https://www.timeshighereducation.com/impactrankings>

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<https://www.timeshighereducation.com/impactrankings>

Show me universities in **South Africa** x offering **any subject** v

Or, find specific universities by name

| Rank     | Name  | Best scores by rank |      |   |      |    |      |    |      |    |      |
|----------|---|---------------------|------|---|------|----|------|----|------|----|------|
| =46      | University of Johannesburg<br>South Africa      | 1                   | 92.0 | 8 | 81.8 | 5  | 74.1 | 17 | 75.6 | 17 | 81.7 |
| 69       | University of Pretoria<br>South Africa          | 8                   | 82.5 | 5 | 74.6 | 9  | 88.7 | 17 | 87.7 |    |      |
| 101-200  | University of Cape Town<br>South Africa         | 6                   | 87.5 | 5 | 70.9 | 8  | 66.4 | 17 | 88.9 |    |      |
| 101-200  | University of the Witwatersrand<br>South Africa | 8                   | 80.3 | 3 | 73.5 | 10 | 65.2 | 17 | 61.1 |    |      |
| 401-600  | Nelson Mandela University<br>South Africa       | 14                  | 72.0 | 4 | 66.9 | 8  | 48.4 | 17 | 61.1 |    |      |
| 401-600  | University of the Western Cape<br>South Africa  | 10                  | 65.2 | 4 | 62.6 | 5  | 56.1 | 17 | 53.4 |    |      |
| 601-800  | University of South Africa<br>South Africa      | 5                   | 61.5 | 4 | 62.6 | 10 | 51.8 | 17 | 53.4 |    |      |
| 801-1000 | Durban University of Technology<br>South Africa | 3                   | 54.7 | 1 | 54.5 | 6  | 42.8 | 17 | 61.1 |    |      |

## SDG Publishers Compact





## Signatories to the SDG Publishers Compact commit to:

1. **Committing to the SDGs:** Stating sustainability policies and targets on our website, including adherence to this Compact; incorporating SDGs and their targets as appropriate.
2. **Actively promoting and acquiring content** that advocates for themes represented by the SDGs, such as equality, sustainability, justice and safeguarding and strengthening the environment.
3. **Annually reporting on progress towards achieving SDGs**, sharing data and contribute to benchmarking activities, helping to share best practices and identify gaps that still need to be addressed.
4. **Nominating a person who will promote SDG progress**, acting as a point of contact and coordinating the SDG themes throughout the organization.
5. **Raising awareness and promoting the SDGs among staff** to increase awareness of SDG-related policies and goals and encouraging projects that will help achieve the SDGs by 2030.
6. **Raising awareness and promoting the SDGs among suppliers**, to advocate for SDGs and to collaborate on areas that need innovative actions and solutions.
7. **Becoming an advocate to customers and stakeholders** by promoting and actively communicating about the SDG agenda through marketing, websites, promotions and projects.
8. **Collaborating across cities, countries, and continents** with other signatories and organizations to develop, localize and scale projects that will advance progress on the SDGs individually or through their Publishing Association.
9. **Dedicating budget and other resources towards accelerating progress** for SDG-dedicated projects and promoting SDG principles.
10. **Taking action on at least one SDG goal**, either as an individual publisher or through your national publishing association and sharing progress annually.



## African publishers - signatories

Borders Literature for All Nations, Nigeria

Adigrat University, Ethiopia

Fatimah Abbas Literary Agency – FALA, Egypt

Adaex Educational Publications Ltd, Ghana

Pan African Institute for Development, Cameroon

UNA TODAY for Better Tomorrow, India, Russia,  
Switzerland and Africa

Amalion, Senegal

Epsilon Publishers Limited, Kenya

Sudanese Researchers Foundation, Sudan

AfricArXiv, Kenya

Kenya Publishers Association, Kenya

Royallite Global, Kenya

Quilled Ink Press, Africa

STEP, Tunisia and Morocco

New Africa Books, South Africa

Brand Africa, Zimbabwe

Yceda Global Media Limited, Nigeria

نجوم مصرية, Egypt

IEREK Press, Egypt

National University of Science and Technology, Zimbabwe

Rongo University, Kenya



# SDG Sustainability Roadmap

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## 5 phased action plan

for academic publishers  
to achieve the UN SDGs



### ENGAGE

Leadership, vision & awareness



### ACCELERATE

Research & knowledge gathering



### ADVOCATE

Communications & training



### PRIORITIZE

Driving progress on key SDGs



### REPORT

Progress & Targets



# Top Action Tips

Academic librarians



# Top Action Tips

Academic librarians

## 1: Strategize

Incorporate the [SDGs](#) into an academic library's strategic thinking.

## 2: Advocate for SDGs

Identify, review, and re-use work of library associations addressing the SDGs, e.g. products and graphics produced by the [American Library Association](#) (ALA)'s SDG Task Force; and the [International Federation of Library Associations and Institutions](#) (IFLA)

## 3: Support SDG research

Identify and support campus researchers who are helping make the world a better place—just, healthy, inclusive and sustainable.

## 4: Share SDG strengths

Help institutions identify, celebrate and champion relevant research strengths. Share information about areas of SDG strengths with other libraries (local, national, regional, global).

## 5: Guide Users to SDG content

LibGuides are already used as a content management system in thousands of academic libraries, bringing together resources on a particular topic. Many examples of up-to-date and excellent SDG LibGuides already exist e.g., [University of Michigan Library](#).

## 6: Curate SDG collections

Recruit and support campus and community members to create bespoke, curated collections related to SDGs. For example, (1) collaborate with a teacher of adult, immigrant English language students to invite and support the adult language learners in creating collections to offer the community introductions to different cultural knowledge and assets; (2) invite resource people knowledgeable in areas of interest to the campus & community to create collections based on their area of expertise.

## 7: Refine metadata

Promote Knowledge Democracy including elevating the voices of historically unrepresented communities in data processes. Facilitate/support diverse contributions toward producing more inclusive data, and informing policy making and programs for addressing pressing social issues in a more equitable manner.

## 8: Cultivate literacy

Create educational programming to advance literacy in all key SDG areas including information, data, media, and sustainability.

## 9: Walk the SDG walk

Align with campus sustainability initiatives. These exist on pretty much every campus, often thanks to the great work of students and dedicated staff who help us all see the university as a kind of laboratory where sustainability-friendly practices are encouraged.

## 10: Opt for open

Set the default to open: support open access, open source, open data etc. Consider science as a global public good, view open science services as essential research infrastructures, governed and owned by the community and funded collectively. Incentivize open science practices among researchers. Invest in capacity building and human capital. [Review the UNESCO Recommendation on Open Science](#).

## 11: Convene

Facilitate open discussion of library's SDG policies among stakeholders e.g. collection specialists, students, researchers and other library users regarding strengths and gaps in library holdings pertinent to individual and collective achievement in particular SDG and sustainability progress broadly.

## 12: Assess

Conduct user (and potential user) research to learn how library patrons go about seeking information on the SDGs.

## 13: Communicate

Share with potential users on campus and in the community the resources available to them regarding the SDGs. Encourage their exploration and use.



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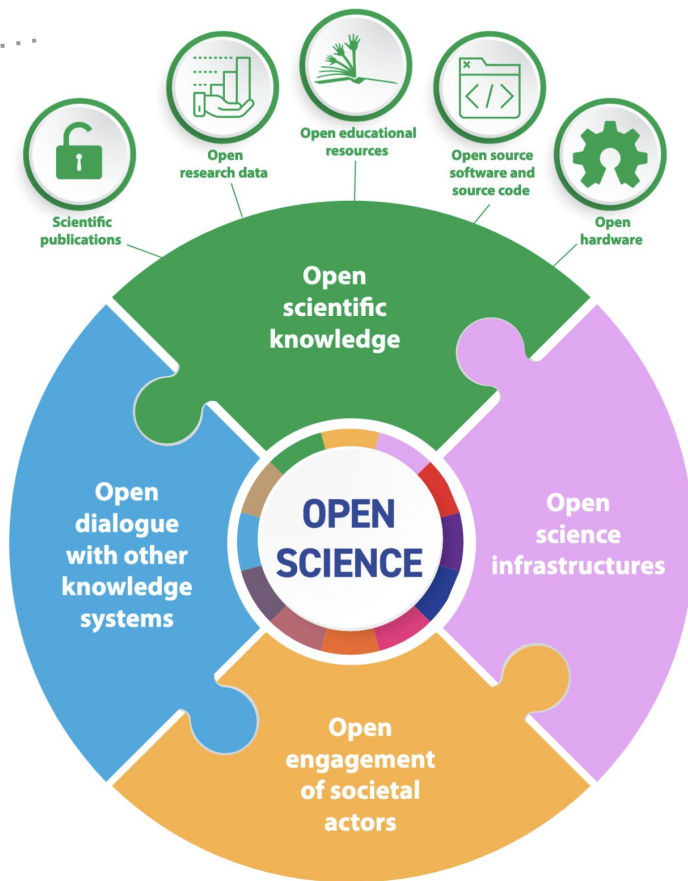
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# SDG Indicators

## Global indicator framework for the Sustainable Development Goals and targets of the 2030 Agenda for Sustainable Development

| Sustainable Development Goal indicators should be disaggregated, where relevant, by income, sex, age, race, ethnicity, migratory status, disability and geographic location, or other characteristics, in accordance with the Fundamental Principles of Official Statistics. <sup>1</sup>   |  |  |
|---|--|--|
| <i>Goals and targets (from the 2030 Agenda for Sustainable Development)</i>   | <i>Indicators</i>  | <i>UNSD Indicator Codes<sup>1</sup></i>  |
| <b>Goal 1. End poverty in all its forms everywhere</b>  |  |  |
| 1.1 By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day   | 1.1.1 Proportion of the population living below the international poverty line by sex, age, employment status and geographic location (urban/rural)  | C010101  |
| 1.2 By 2030, reduce at least by half the proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions  | 1.2.1 Proportion of population living below the national poverty line, by sex and age  | C010201  |
|   | 1.2.2 Proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions  | C010202  |
| 1.3 Implement nationally appropriate social protection systems and measures for all, including floors, and by 2030 achieve substantial coverage of the poor and the vulnerable  | 1.3.1 Proportion of population covered by social protection floors/systems, by sex, distinguishing children, unemployed persons, older persons, persons with disabilities, pregnant women, newborns, work-injury victims and the poor and the vulnerable | C010301  |
|   | 1.4.1 Proportion of population living in households with access to basic services  | C010401  |
| 1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance | 1.4.2 Proportion of total adult population with secure tenure rights to land, (a) with legally recognized documentation, and (b) who perceive their rights to land as secure, by sex and type of tenure  | C010402  |
|   | 1.5 By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters                         | 1.5.1 Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population |
| 1.5.2 Direct economic loss attributed to disasters in relation to global gross domestic product (GDP)   |  | C200211  |
| 1.5.3 Number of countries that adopt and implement national disaster risk reduction strategies in line with the Sendai Framework for Disaster Risk Reduction 2015–2030  |  | C200304  |
| 1.5.4 Proportion of local governments that adopt and implement local disaster risk reduction strategies in line with national disaster risk reduction strategies  |  | C200305  |
| 1.a Ensure significant mobilization of resources from a variety of sources, including through enhanced development cooperation, in order to provide adequate and predictable means for developing countries, in particular least developed countries, to implement programmes and policies to end poverty in all its dimensions             | 1.a.1 Total official development assistance grants from all donors that focus on poverty reduction as a share of the recipient country's gross national income   | C010a04  |
|   | 1.a.2 Proportion of total government spending on essential services (education, health and social protection)  | C010a02  |
| 1.b Create sound policy frameworks at the national, regional and international levels, based on pro-poor and gender-sensitive development strategies, to support accelerated investment in poverty eradication actions  | 1.b.1 Pro-poor public social spending  | C010b02  |
| <b>Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture</b>   |  |  |
| 2.1 By 2030, end hunger and ensure access by all people, in particular the  | 2.1.1 Prevalence of undernourishment   | C020101  |

<https://unstats.un.org/sdgs/indicators>

# SDG Indicators

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# Suggestions for scholarly stakeholders

Librarians, institutional research officers, research managers

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## Publishers, institutional repositories, scholarly literature databases

- Enable the cross cutting search functionality through filtering by SDG > target > Indicator



LENS.ORG English Our Apps Pricing About Guest Work Area Register / Sign in Support

263,383,700 Scholarly Works Explore Science, Technology & Innovation... Search

## New Scholar Search

Scholarly Works (263,383,700) = All Docs

Filters: No filters applied

|                 |                        |                |                  |                          |
|-----------------|------------------------|----------------|------------------|--------------------------|
| Scholarly Works | Works Cited by Patents | Citing Patents | Patent Citations | Works Cited by Scholarly |
| 263,383,700     | 5,158,875              | 4,163,924      | 27,314,611       | 89,145,053               |

Structured Search Query Text Editor Profiles

Field: All Fields Predicate: AND OR e.g. malaria

Date Range ORCID Lookup Author Flags Identifier Type Publication Type

Search

Data Set Search Tips Fields Presets

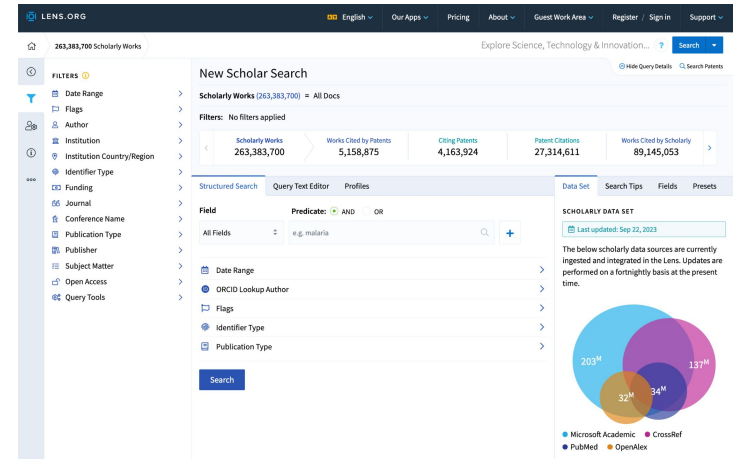
SCHOLARLY DATA SET

Last updated: Sep 22, 2023

The below scholarly data sources are currently ingested and integrated in the Lens. Updates are performed on a fortnightly basis at the present time.

| Source             | Count |
|--------------------|-------|
| Microsoft Academic | 203M  |
| CrossRef           | 137M  |
| PubMed             | 34M   |
| OpenAlex           | 32M   |

- free database for scholarly works (260M+) and patents
- granular and advanced filtering options
- matching between scholarly records and patents



The screenshot displays the LENS.ORG search interface. At the top, it shows the LENS.ORG logo and navigation links. The main content area is titled 'New Scholar Search' and shows a search for 'malaria' with 263,383,700 scholarly works. A table below the search bar shows the following counts:

| Scholarly Works | Works Cited by Patents | Citing Patents | Patent Citations | Works Cited by Scholarly |
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Below the table, there are tabs for 'Structured Search', 'Query Text Editor', and 'Profiles'. The 'Structured Search' tab is active, showing a search field with 'e.g. malaria' and a search button. To the right, there is a 'SCHOLARLY DATA SET' section with a Venn diagram showing the overlap of data sources:

- Microsoft Academic: 203M
- PubMed: 32M
- CrossRef: 34M
- OpenAlex: 131M

*Librarians can support researchers in using Lens.org to accelerate problem solving.*

**FILTERS**

- Date Range >
- Flags >
- Author >
- Institution >
- Institution Country/Region >
- Identifier Type >
- Funding >
- Journal >
- Conference Name >
- Publication Type >
- Publisher**
- Subject Matter**

**Subject Matter**

- Subject >
- MeSH Heading >
- Field of Study >
- Chemical Substance Name** >

Substance reflects the chemical field listed in PubMed records

Search Chemical Substance Name

- Anti-Bacterial Agents (398,789)
- RNA, Messenger (395,728)
- Biomarkers (348,629)
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- DNA (305,737)
- Calcium (281,831)
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\*\*\* Load More

**Refine**

**Keyword**

- Open Access >
- Open Access Colour >
- Open Access License >

Query Tools >

**Publisher** >

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[Clear](#) [Refine](#)

 Sustainable Development Goals 

- SDG 1
- SDG 2
- SDG 3
- SDG 4 

| Target 4.1

| Target 4.2 

|  Indicator 4.2.1

|  Indicator 4.2.2

| Target 4.3

| Target 4.4

| Target 4.5

| Target 4.6

| Target 4.7

| Target 4.a

| Target 4.b

| Target 4.c

SDG 5

SDG 6

...

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Access 2  
Perspectives



<https://access2perspectives.org>



[info@access2perspectives.org](mailto:info@access2perspectives.org)