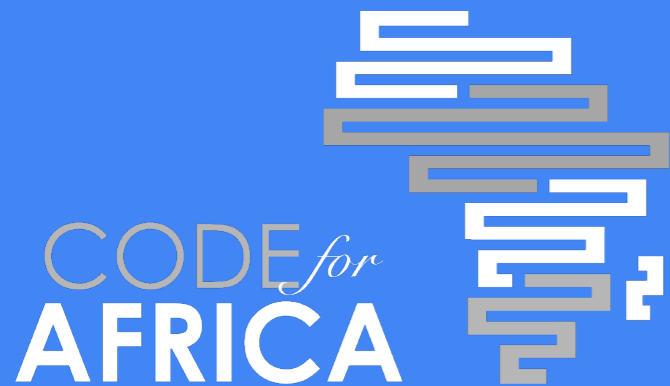


Hacking Open Data in Africa

Building an open data community in Kenya and Nigeria



@soila_kenya

What is Code for Africa?

Code for Africa (CfA) is a federation of indigenous **civic tech + open data labs** in 10 countries, in Ghana, Kenya, Morocco, Nigeria, Sierra Leone, Senegal, South Africa, Tanzania, Uganda and Zimbabwe, operating alongside our WanaData community of data science women and a sister network of independent **investigative newsrooms** in 22 countries.





Face Reality

We're realistic about the scope of the problem: this is the Nigerian Information Ministry's archive for Government Gazettes. Our work is digitising this kind of **deadwood** to give citizens **actionable information**.

What is openAFRICA?

openAFRICA aims to be the **largest independent repository of open data on the African continent.**

It is not a government portal. Instead, it's a **grassroots initiative**, maintained by Code for Africa, as a public service. The platform is available as a free resource for ordinary citizens, civil society organisations, civic activists, the media, and government agencies.

<https://openafrica.net/>

The screenshot shows the openAFRICA website homepage. At the top, there's a navigation bar with the openAFRICA logo (a stylized 'o' with a globe inside) and the text 'openAFRICA by Code for Africa'. To the right of the logo are links: 'Datasets', 'Organisations', 'Groups', 'About', and 'Data Requests'. Further right is the 'Code for Africa' logo. The main header area has a dark background with a cityscape image. It features the text 'Africa's Largest Volunteer Driven Open Data Platform' and a sub-header 'openAFRICA aims to be the largest independent repository of open data on the African continent'. Below this is a search bar with the placeholder text 'Search for datasets...'. A statistic below the search bar states '71 organisations or civil society groups currently sharing data'. The section 'Who uses openAFRICA?' follows, with the text 'Find out who and how several actors are using open data to address some of Africa's challenges'. This section is divided into six colored boxes: 1. 'Creators' (white box) listing 'APIs', 'Visualisations', 'Open Source', and 'Open Data', with a green 'API Docs' button. 2. 'Civic Apps' (green box) listing 'Apps such as GotToVote, StarHealth, Grano and sourceAFRICA'. 3. 'Governments' (white box) listing 'Publish', 'Measure', 'Share', and 'Data', with a blue 'Publish' button. 4. 'Transparency' (blue box) listing 'Open data and platforms for fostering civic innovation'. 5. 'Budgets' (yellow box) listing 'Collecting and liberating budget'. 6. 'Journalists' (white box) listing 'Visualise', 'Analyse', 'Discover', and 'Open Data'. 7. 'Visualisations' (orange box) listing 'The home for charts and data'. 8. 'Society' (white box) listing 'Decide', 'Discover', 'Act', and 'Open Data'.

openAFRICA

Datasets Organisations Groups About Data Requests

Code for Africa

Africa's Largest Volunteer Driven Open Data Platform

openAFRICA aims to be the largest independent repository of open data on the African continent

Search for datasets...

71 organisations or civil society groups currently sharing data

Who uses openAFRICA?

Find out who and how several actors are using open data to address some of Africa's challenges

Creators

APIs
Visualisations
Open Source
Open Data

API Docs

Civic Apps

Apps such as
GotToVote,
StarHealth, Grano
and sourceAFRICA

Governments

Publish
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Open data and
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Budgets

Collecting and
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Journalists

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Analyse
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Visualisations

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charts and data

Society

Decide
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Open Data

Upload your datasets

You can upload your data to openAFRICA either to store it, or to make it available to a wider public.

You can also search for data that other users have already uploaded on the site and download it for re-use in your own projects.

[+ Add Dataset](#)

Search datasets...

3,213 datasets found

Order by:

Can't find what you are looking for? [Suggest a dataset.](#)

Kenya Gender Facts and Figures
Updated March 4, 2019 | Created February 28, 2019
The People Daily

Data on Women and Men in Kenya based of facts and figures from Facts and figures 2017

[PDF](#) [CSV](#)

MDB Wards 2016
Updated February 26, 2019 | Created February 26, 2019
Code for Africa

The dataset contains all spatial data for South African ward boundaries for 2016

[.cpg](#) [.dbf](#) [.prj](#) [.shp](#) [.shx](#)

sensors.AFRICA Air Quality Archive Yaba, Lagos
Updated February 26, 2019 | Created February 15, 2019

This dataset has no description

[.xlsx](#)

Redistribution and Restitution in South Africa 2018
Updated February 22, 2019 | Created February 22, 2019
OurLand

This dataset has no description

[.xlsx](#)

Land Ownership and Redistribution in South Africa 2018
Updated February 22, 2019 | Created February 22, 2019
OurLand

This dataset has no description

[.xlsx](#)

Land Audit Report South Africa - Datasets from DRDLR
Updated February 22, 2019 | Created February 22, 2019
OurLand

Datasets directly from the Department of Rural Development and Land Reform

[.xlsx](#)

Data Requests

‘Data Requests’ allow users to ask for data that is not published in the platform yet. If you want some specific data and you are not able to find it among all the published datasets, you can create a new data request specifying the data than you want to get.

<https://openafrica.net/datarequest>

Search through existing requests before adding a new one.

[+ Add Data Request](#)

Search Data Requests...

22 data requests found

Order by: Newest

OPEN Super markets

data on supermarkets in Kenya, brand name, town of location

 0 14 days ago

CLOSED hotels in Kenya

data on hotels in Kenya, describing their levels, towns, counties, parliamentary constituencies in which they are located, no of beds and if possible their star rating, physical...

 2 14 days ago

CLOSED precipitation data for ghana

from 2000-2015

 1 1 month ago

OPEN Water Utilities in Kenya

The Quick Statistics on Water Utilities in Kenya Covers Generalized information on Water service providers, from the population served, to the water produced , consumed and...

 1 2 months ago

CLOSED Dataset for Private companies/businesses in Nigeria.

Hello, I would like the dataset for private companies/businesses in Nigeria. I know you have the dataset for Edo state alone. I would be most grateful if you could help me with...

 1 4 months ago

CLOSED social impact of circumcision on non circumcising communities

real time impacts since its inception in 2008 in nyanza ,kenya.

 1 5 months ago

Is it Actionable?

Data is not always the **solution** to every problem. And, even when data can help, government data often isn't **granular** or **recent** enough to be meaningful.

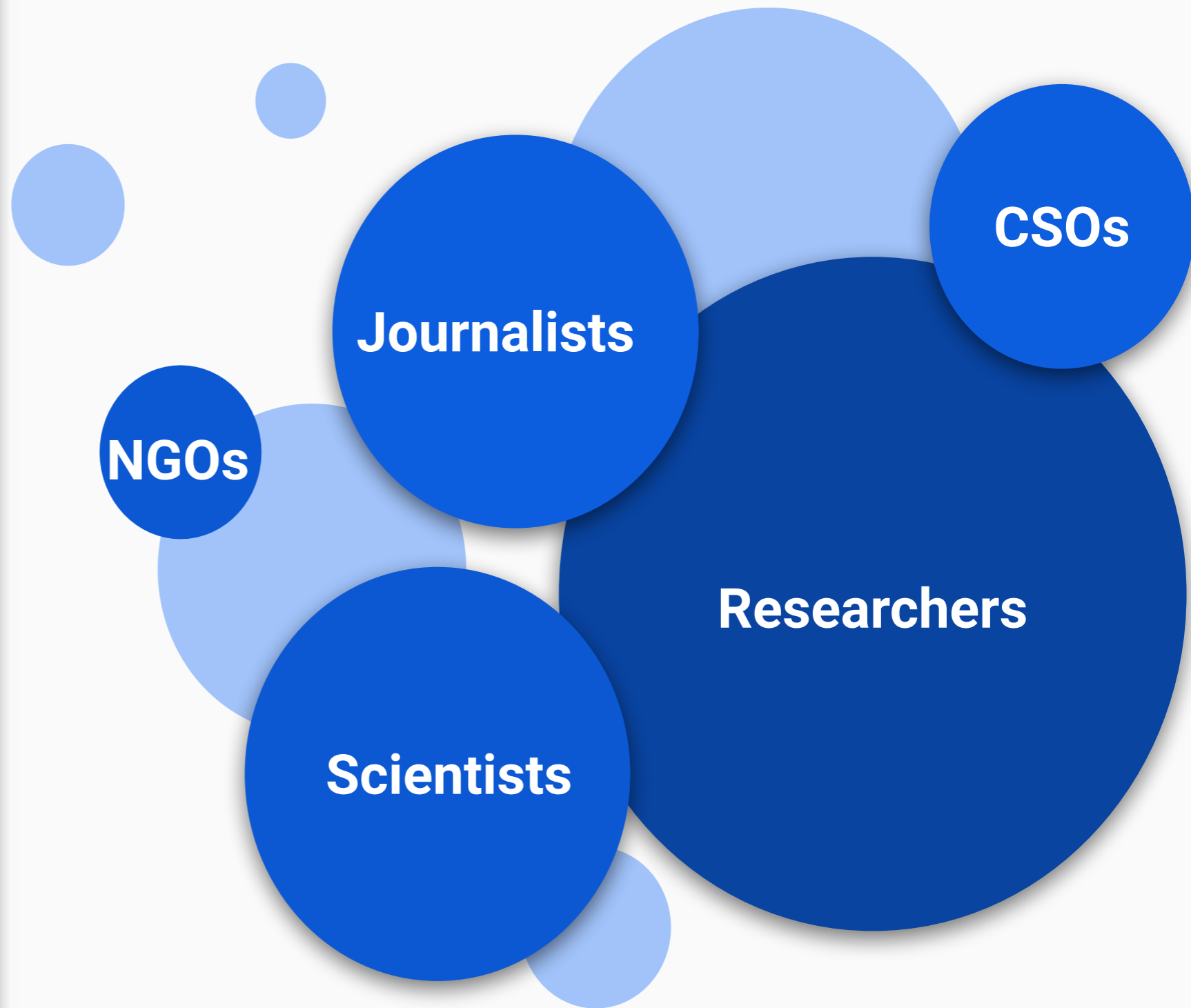
It is therefore important to check whether your data 'speaks' to the particular problem in a way that offers **new insights** or gives users **actionable information**.





















Leveraging existing communities

Getting different media houses to use data necessitates the need for them to find somewhere to store it all in one place.

The same applies to researchers, NGOs, CSOs and scientists.



71 organisations or civil society groups
currently sharing data

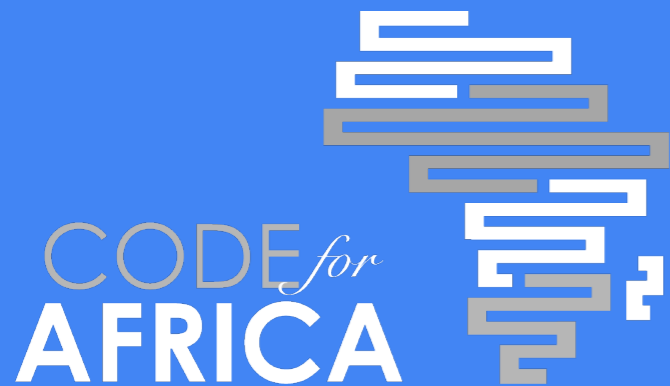
 West African NGO Network WANGONET is a 'network of networks' connecting over 1,400 NGOs across Nigeria. 1 Dataset	 UNICEF The United Nations Children's Fund is a United Nations program headquartered... 4 Datasets	 Uganda Budget Information The Uganda Budget Information website promotes transparency and... 1 Dataset	 The Elephant The Elephant was established in 2016, as a platform for dialogue, discovering... 2 Datasets	 The Cable The Cable is an investigative, progressive newspaper based in Nigeria, that... 0 Datasets	 The Centre for Humanitarian Data The Centre for Humanitarian Data is focused on increasing the use and impact... 1 Dataset	 Sahara Reporters SR is one of Nigeria's largest and most dynamic online news communities... 2 Datasets	 Ruben FM Ruben FM is a community radio station located at Mukuru slum, Nairobi County... 0 Datasets	 Public Private Development Centre PPDC helps Nigerian citizens shape governance in both the public and private... 2 Datasets
 Twaweza Twaweza means "we can make it happen" in Swahili, and works empower citizens... 3 Datasets	 The People Daily The People Daily is a free ad-supported newspaper based in Nairobi. It is... 9 Datasets	 The Star The Star is a daily newspaper based in Nairobi, Kenya previously known as the... 0 Datasets	 Takwimu Takwimu is an ongoing project addressing key challenges around political and... 9 Datasets	 StoryLab Academy The StoryLab Academy is Africa's largest digital / data journalism training... 0 Datasets	 Sikika Sikika is a Tanzanian non-profit founded in 1999 working on issues ranging... 0 Datasets	 Premium Times Centre for Investigative Journalism (PTCIJ) The investigative NGO arm of Premium Times newspaper. 1 Dataset	 PesaCheck A fact-checking and news verification initiative to verify... 0 Datasets	 PEPFAR PEPFAR Tanzania The U.S. President's

Liberating Data

Much of the data on openAFRICA has been liberated by **pioneering organisations, volunteers or activists**, and is an eclectic collection that is far from comprehensive.

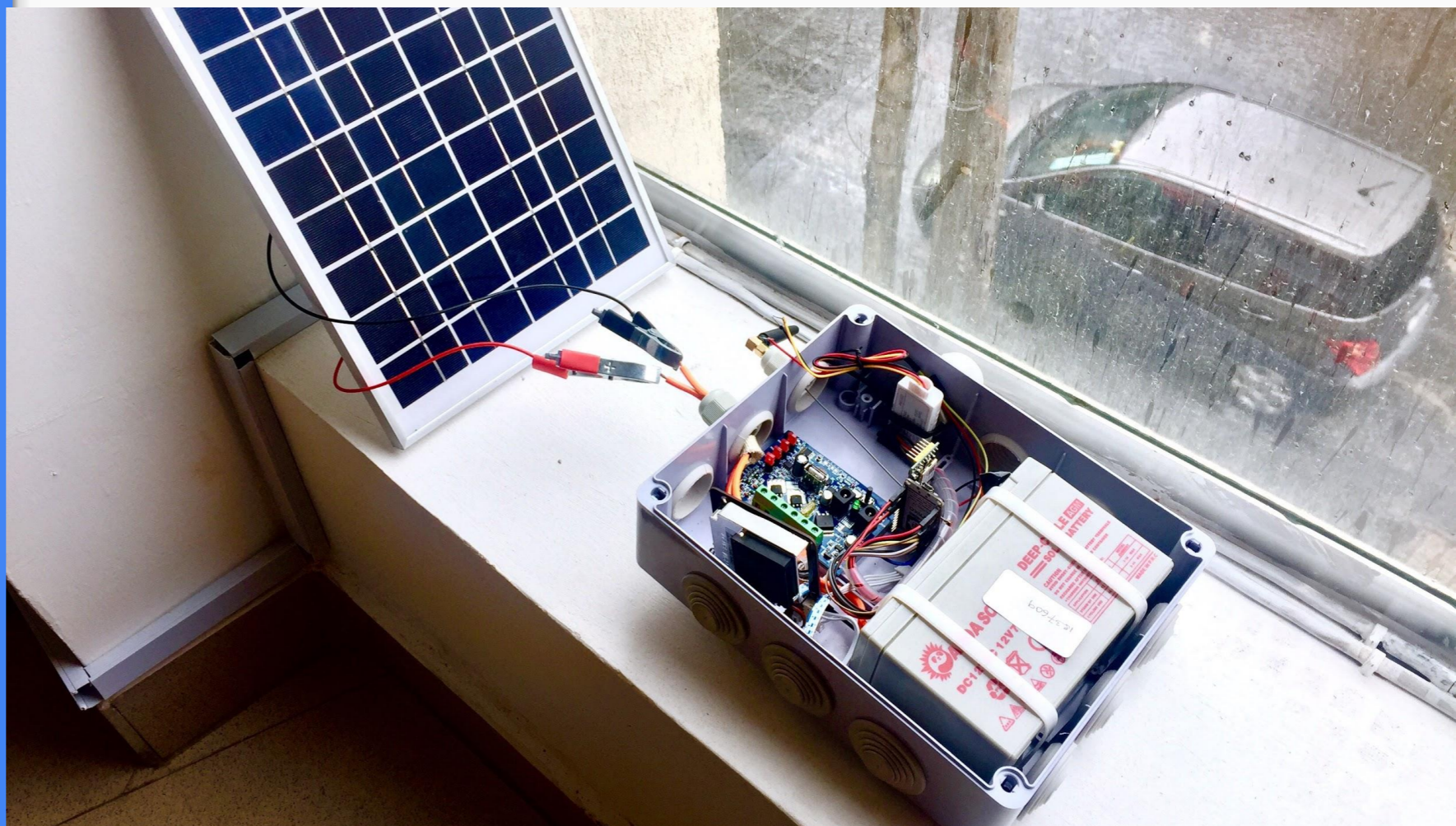
Data Journalism

Getting journalists excited about open data



Air Quality Data

Our labs currently support sensors that focus on **air pollution** which can track when it exceeds safe limits. This provides citizens with **real-time alerts** while also producing **analytical data**.



sensors.AFRICA Air Quality Archive Kisumu

Updated April 24, 2019 | Created February 15, 2019

sensors.AFRICA

sensors.AFRICA Air Quality Archive Kampala

Updated April 24, 2019 | Created February 14, 2019

sensors.AFRICA

Air Quality Stories

Out of that journalists have written data-driven stories highlighting the air pollution problem in our cities.

PM2.5 concentration peaks ($\mu\text{g}/\text{m}^3$)



Of three schools assessed, St. Scholastica Catholic School has the lowest concentration.

The beginning and end of the school week are the most dangerous times, as well as early morning hours which have the highest concentration.



Days



Hours

Catholic parochial primary school

Monday

37.2

5:00 am (43.9)

Muthurwa Primary School

Tuesday

35.7

6:00 am (40)

St. Scholastica Catholic School

Friday

5.0

9:00 am (5.6)

Source:
St. Scholastica, Catholic Parochial and Muthurwa Primary Schools



Journalists recognized for their work

Tobore Ovuorie's story on Human Trafficking in Nigeria got the attention of the International Organization for Migration (IOM). It also earned her an award from the First Lady of Nigeria.





WanaData

This is a **network of female journalists** working on changing the digital media landscape by producing and promoting **data-driven news** and applying digital technologies in their storytelling.

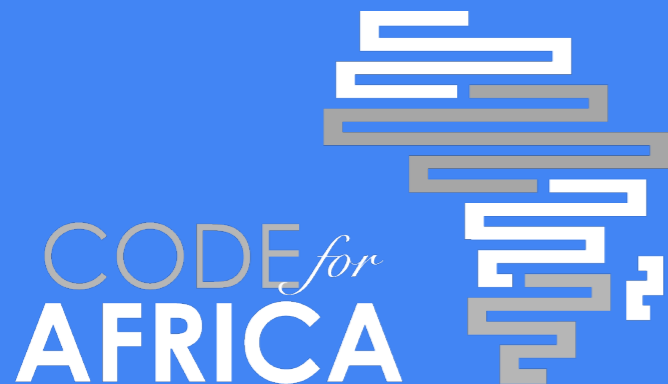


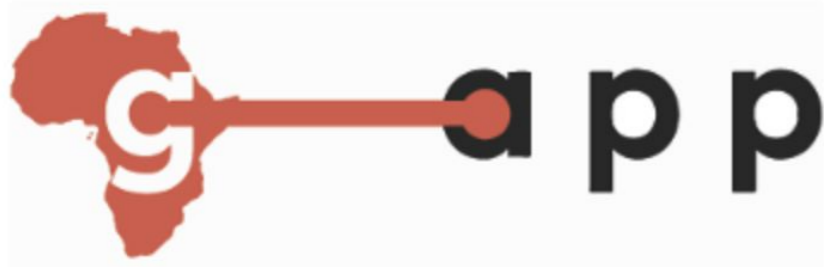
Hacks/Hackers

We are custodians of the **35,000+** hacktivists and data activists in the Hacks/Hackers Africa community, plus the **10,000+** investigative watchdogs in the ANCIR community.

Ripple effects

What open data can do for you





Tanzania has the 24th largest gender pay gap in Africa. 3rd best score in the region

GDP will increase by 2025 if gender gap is reduced

Africa's GDP will increase if gender equality is addressed - the highest increase of any region.

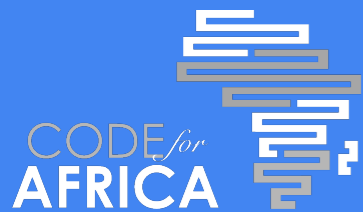
#gendergap

Source: World Economic Forum, 2017
Designed by Fridah Oyaro



Gender Data

CfAfrica and WanaData created an [interactive tool](#) that enables African women to estimate the **gender pay gap** in their country: [gendergap.africa](#)



Actionable insights for African changemakers

Takwimu provides quality insights and data-driven analysis on Human Development Indicators across 10 African countries.

Explore data and analysis by [country](#), [topic](#), and [SDG indicator](#), discover [expert insights](#) on key development issues, and [see how we created Takwimu](#).

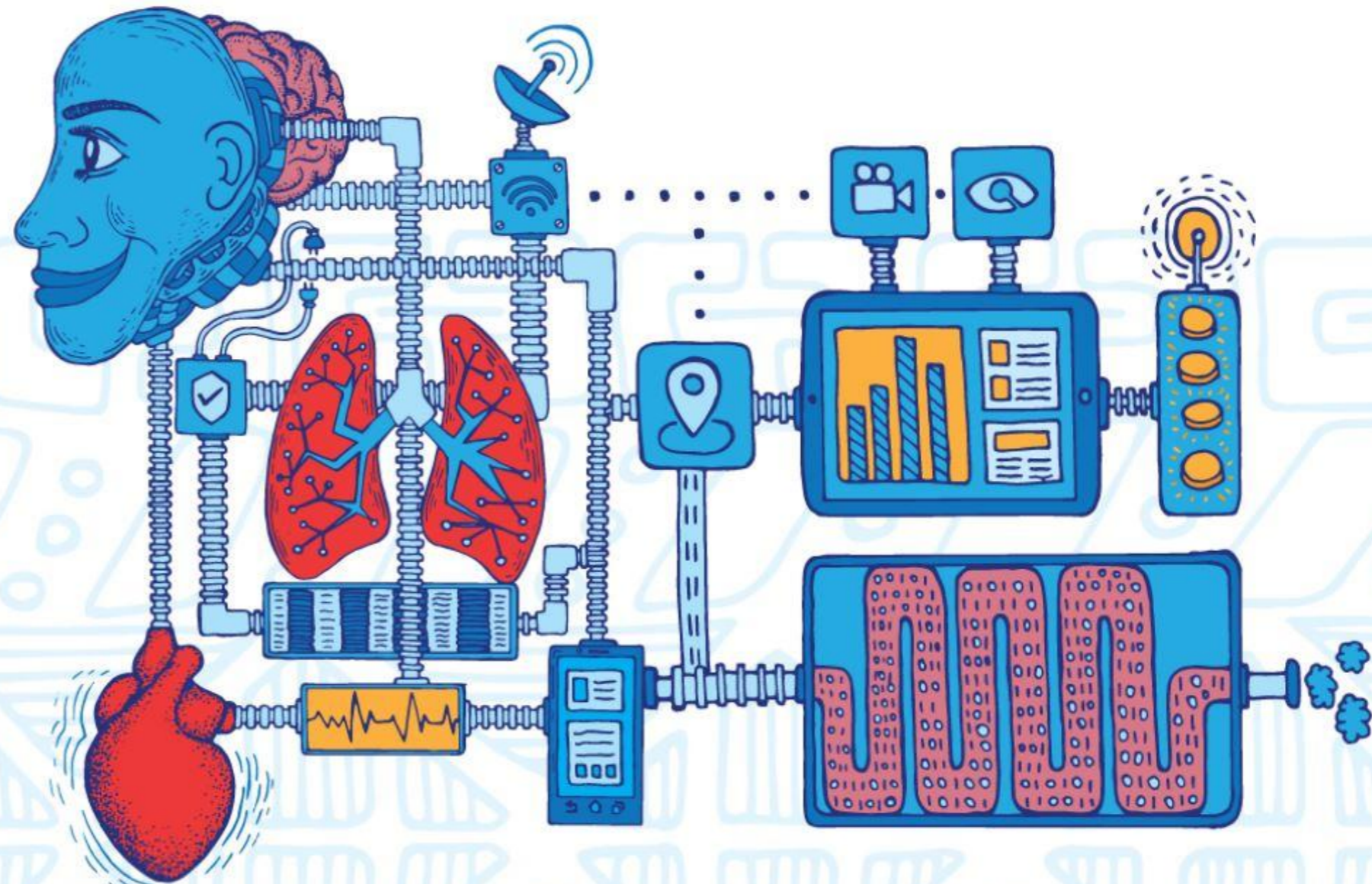
Find out more ▶

Development Data

Takwimu provides African development champions and storytellers with the best analysis and data available, supporting their work to advocate for change in their communities.

Sign up for a free world-class digital journalism course with mixed media lessons, concise tip-sheets and practical exercises.

START LEARNING



Academy

Digital Skills targeting 30+ newsrooms in 12 countries. The platform focuses on digital storytelling, with a combination of online webinars and face-to-face training.



Course

Open data for government

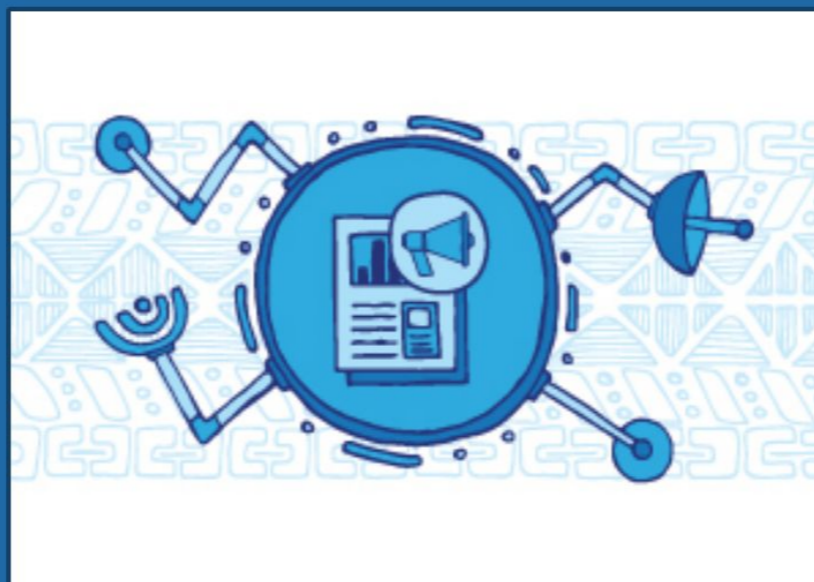
This course covers policy issues and large scale open data implementation.



Course

Open data for reporters and activists

Find out how open data can improve your story-telling and research.



Course

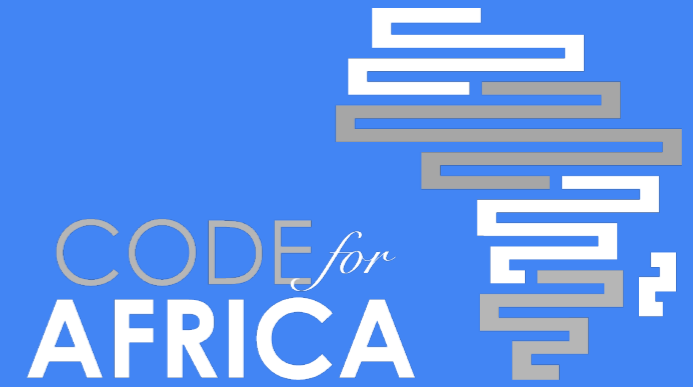
Open data for publishers and civil society organisations

Why it's important for media and CSOs to share datasets that they gather and clean.



Remember this?

This is a paper-based government archive for land deeds in Kenya. Getting different communities to help digitise it is the only way to go.



Twitter: @Code4Africa
@AfricaOpenData

Web: openafrica.net

Slack: bit.ly/C4Aslack

This presentation:
bit.ly/hackingopendatainafrica

Our #CivicTech Community: bit.ly/HHAfrica