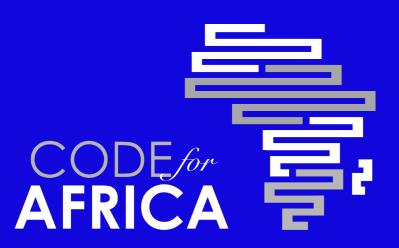
The Data Continent

Code for Africa and data-driven journalism



Chris Roper

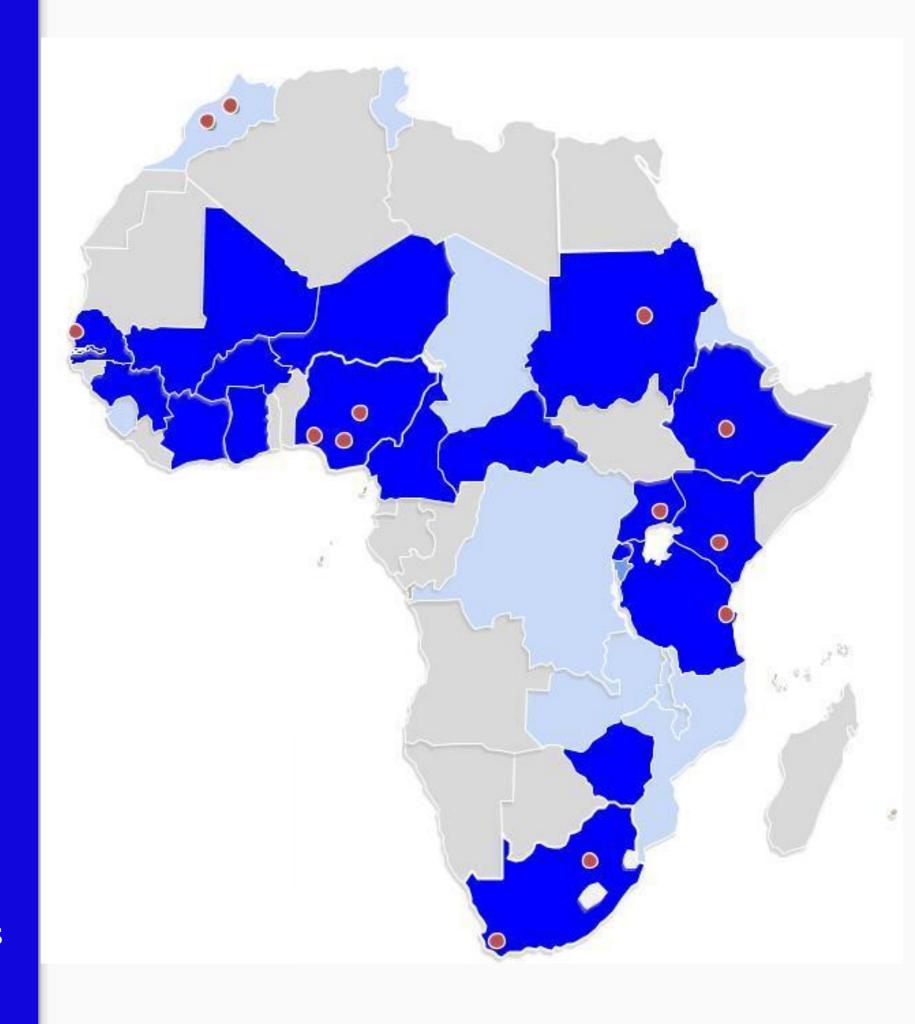
Chris Roper is deputy
 CEO for Code for Africa,
 and a director for the
 African Network of
 Centres for Investigative
 Reporting.

 Prior to joining CfA, Chris was
 editor-in-chief of the
 Mail & Guardian, and
 editor-in-chief of
 Africa's largest online
 publisher, 24.com.



Continental Footprint

- Africa's largest
 indigenous network of
 civic technology labs
- Underpinned by 78
 full-time staff (analysts, technologists, & digital creatives) in 18 African countries.
- Major data and digital journalism projects in a further 11 countries
- A sister network of independent investigative newsrooms in 22 countries

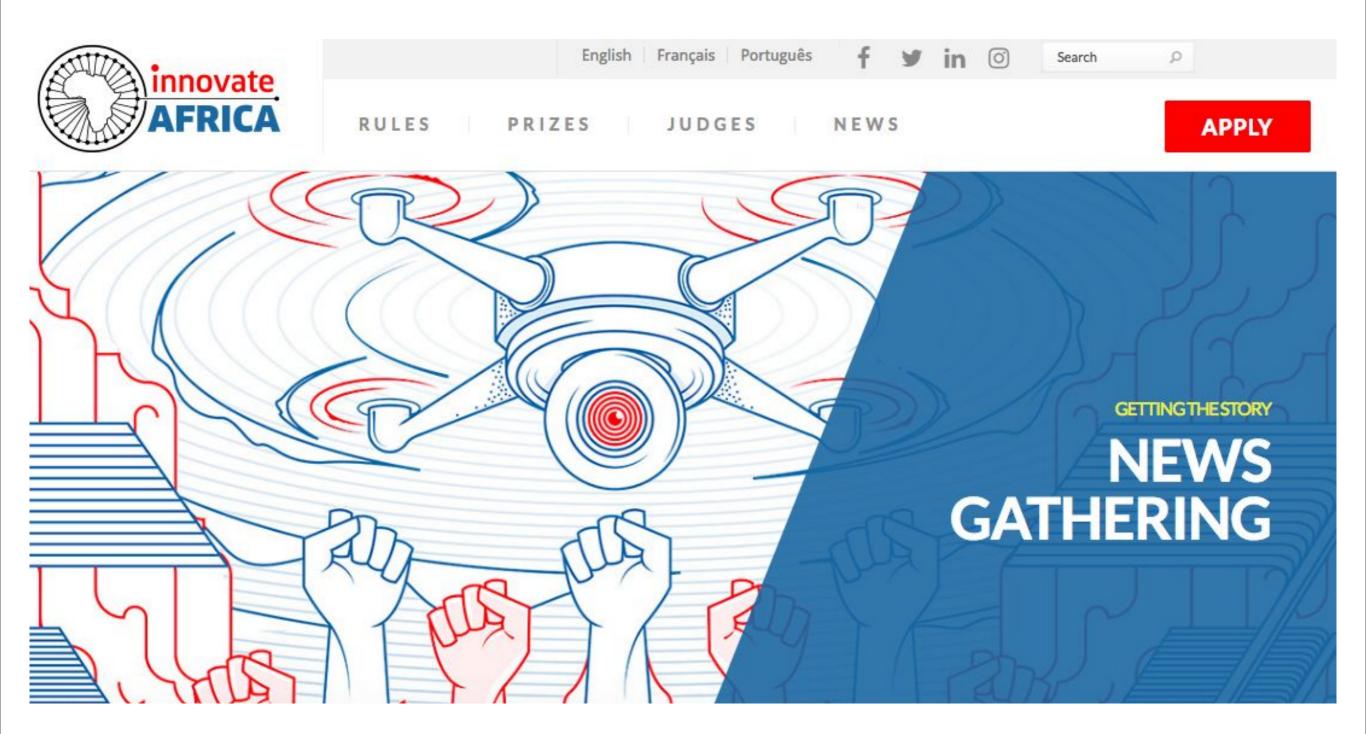






100+ Projects

Our portfolio ranges from cutting edge forensic data & fact-checking initiatives to graphic journalism and multimedia tools, including data graffiti, supported by civic bots and forensic data analysis with a raft of digital security tools for investigative newsrooms.





Innovation isn't cheap. We **neutralise** some of the initial **risk and cost** by offering fast-track **seed grants** and **technical support** for **proof-of-concept** experiments with **leapfrog technologies** or new **audience strategies** and **revenue models**.





People Power

We don't parachute in. Our teams are in-country and understand local context. We build dynamic ecosystems and community networks to ensure partners have local talent. Our deep local roots also help amplify local impacts.





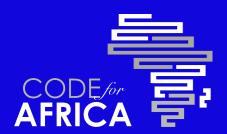


Our Reality

We're **realistic about data** availability: this is the Kenyan Land Registry. Half our job is digitising these kinds of **deadwood records** to give both newsrooms and citizens **accessible** + **actionable information**.

Does It Work?

Examples of data-driven civic engagement impacts



https://oxpeckers.org/minealert/



INVESTIGATIONS.

TOOLS

ABOUTUS NEWS Q





LATEST #MINEALERT INVESTIGATIONS



Parliament probes Mintails toxic legacy

Parliamentary committee saks for explanations following Oxpeckers

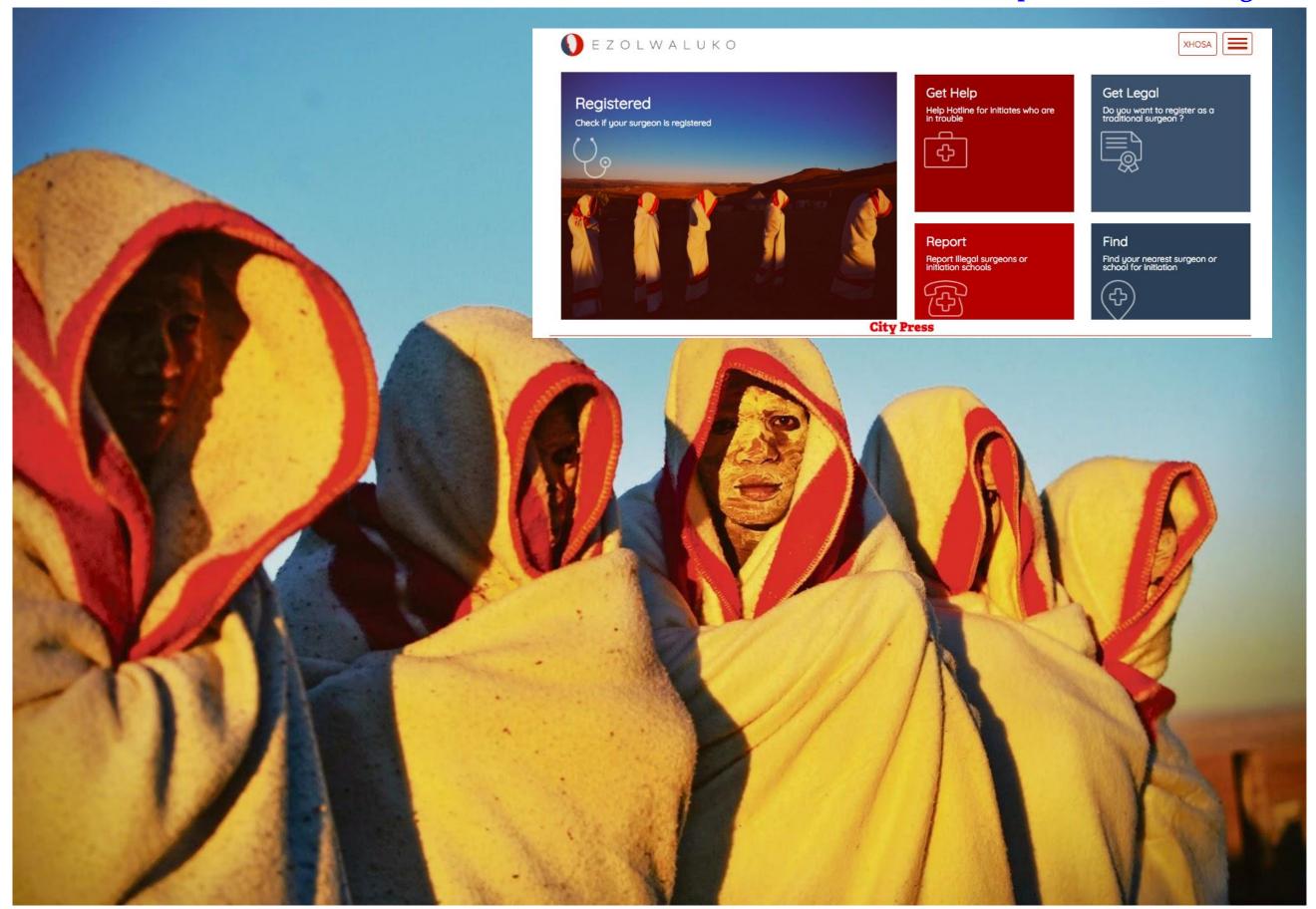


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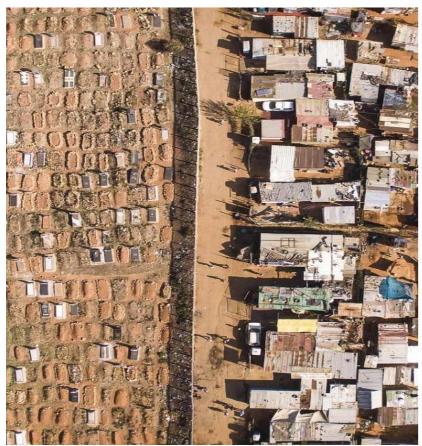
Use ClimaTracker to track weather changes and how these will affect



https://africandrone.org/

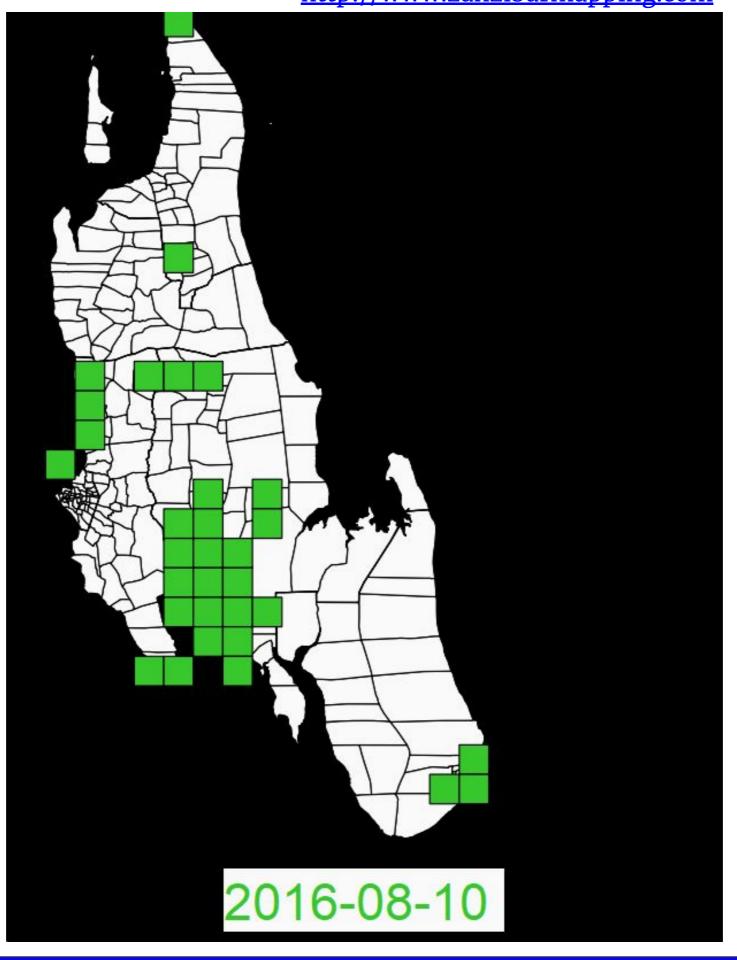


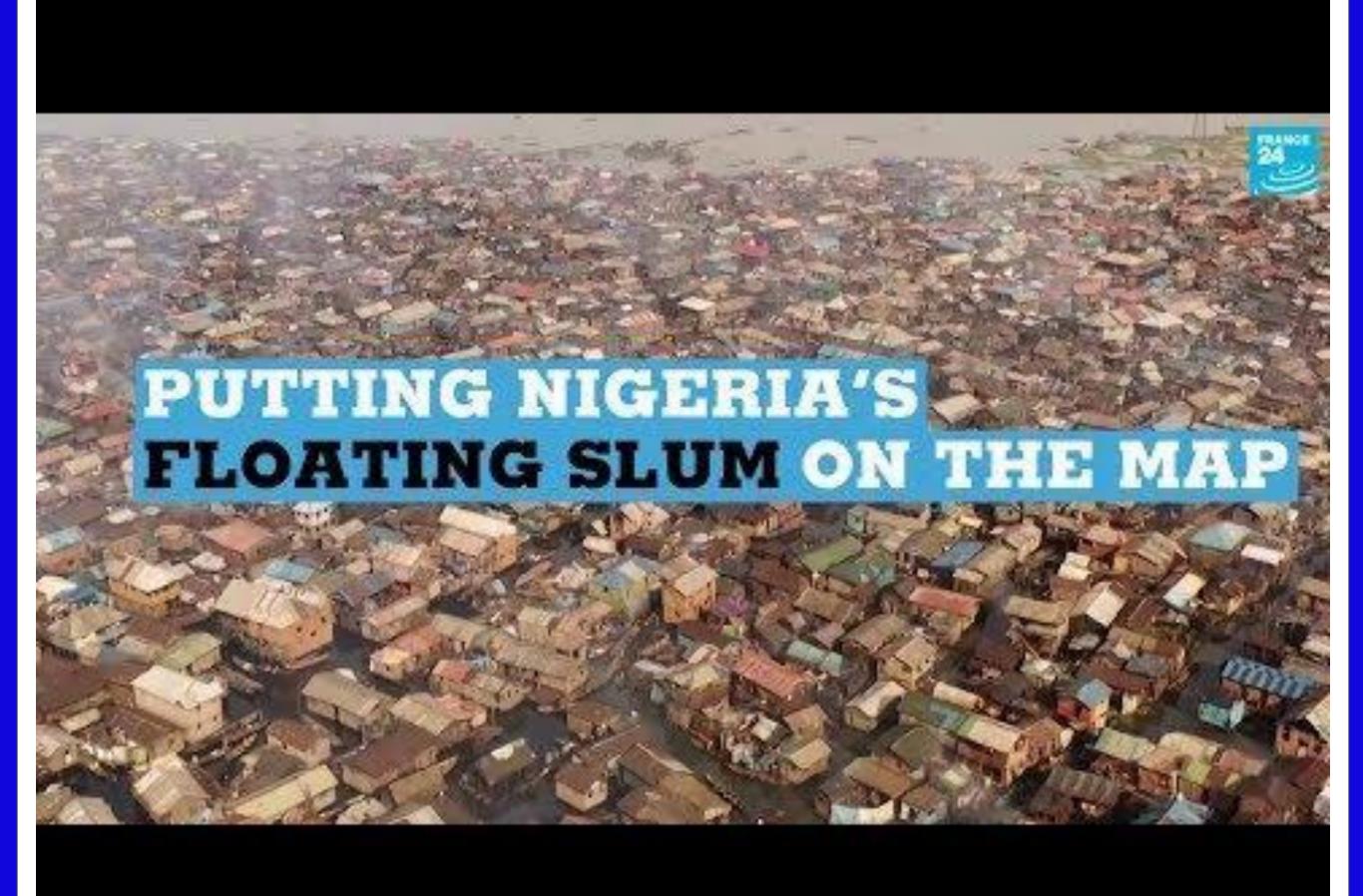






http://www.zanzibarmapping.com



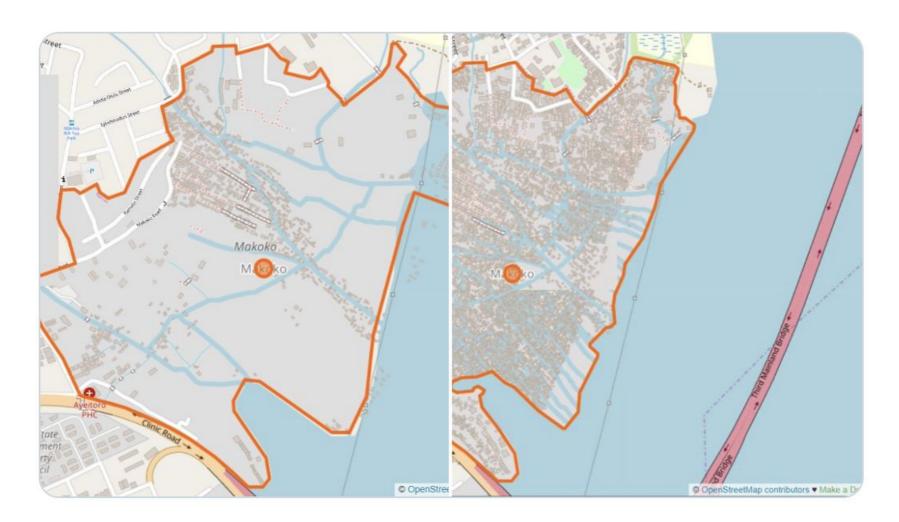




Before and after pictures of Makoko, Lagos, Nigeria in just one week!!!

The amazing power of crowdsourcing, Opensource and OSM.

#MapMakoko #OSMGeoweek2019



3:31 AM · Nov 18, 2019 · Twitter for Android

https://ancir.github.io/mozambique/bigshots/

The Miners of Mozambique

Who are the people behind the mining industry in Mozambique? A partial answer can be found by connecting minerals concessions to the people who control the licensed exploration and mining companies.

Warning: this graphic is currently based on unverified concessions and company control data from on-line sources. Please be sure to independently verify any linkages before citing this page.

PEOPLE

Cong Chuanyou	164
Tao Wu	136
Nicholas John Gore Graham	106
Nicolas John	96
Bo Hu	80
Faisal Kedairy	77
Matthew Giles Yates	68
Robert Arthur Behets	63
Peter John Christians	63
Panagiotis Efstatiou	63
Gregory James Sheffield	59
Hui Sun	53
Mariano de Araújo Matsinhe	51
Francisco António Xavier dos Santos	51
Peter John Prickett	51
Egidio Lúcia Caetano José Madeira	49
Zhiyong Xu	46
Hong Ye	39
Cláudio Manuel Loureiro de Nogueira	38
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COMPANIES

Rovuma Resources, Limitada	96
Omegacorp Minerais, Limitada	63
Administracao Nacional de Estradas	60
Africa Great Wall Cement Manufacturer, Limitada	57
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ZAMEX - Zambeze Explorações, Limitada	51
Africa Yuxiao Mining Development Company, Limitada , Cong Chuanyou	47
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África Consultoria & Projectos, Limitada	29
DH Mining Development Company, Limitada	29
Siexpo. Limitada	28

CONCESSIONS



Produced by the <u>African Network of Centers for Investigative Reporting</u> (ANCIR) and <u>Resources for Development Consulting</u> for the <u>Centro de Integridade Publica</u>.

Research + Data

Fact checking

Investigations

Training

Data-driven content

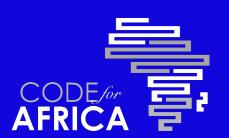
CivicSignal

PesaCheck

ILab

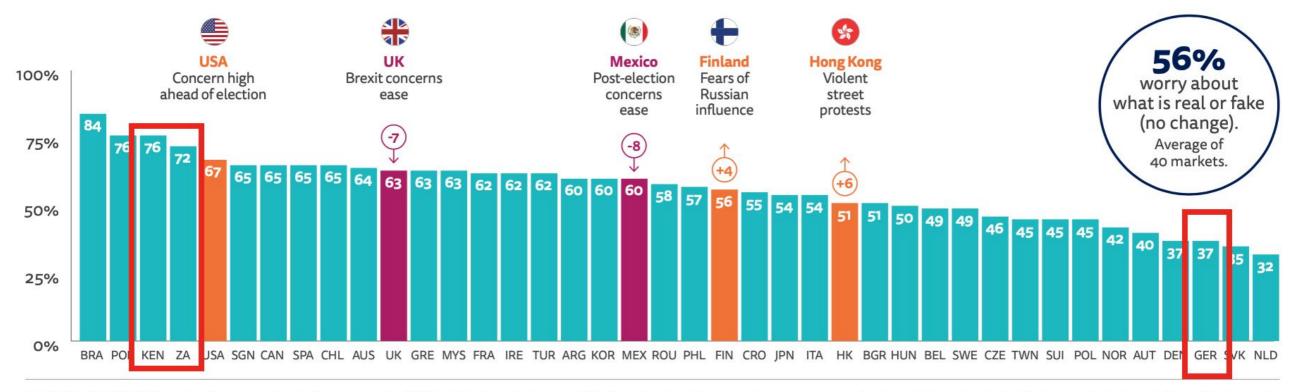
Academy

WanaData

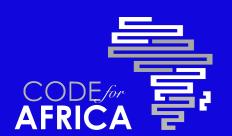


One journey

PROPORTION CONCERNED ABOUT WHAT IS REAL AND WHAT IS FAKE ON THE INTERNET WHEN IT COMES TO NEWS – ALL MARKETS



Q_FAKE_NEWS_1. Please indicate your level of agreement with the following statement. Thinking about online news, I am concerned about what is real and what is fake on the internet. Base: Total sample in each market \approx 2000, Taiwan = 1027.



CivicSignal

Code for Africa's research team, implementing, conducting and publishing research projects focused on African media ecosystems.



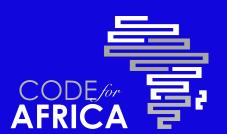
Media Cloud is an open-source platform for media analysis.

Topic Mapper

Dive deeply into coverage of an issue by collecting more stories, analyzing influence, and slicing and dicing the stories to discover narratives.

Explorer

Get a quick overview of how your topic of interest is covered by digital news media by exploring attention, language, and entities.



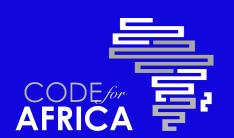
CivicSignal

Code for Africa's research team, implementing, conducting and publishing research projects focused on African media ecosystems.



Decoding the numbers that shape our world

Citizens need accurate information to make decisions. PesaCheck is a fact-checking initiative to verify often confusing numbers quoted by public figures across East Africa, supported by International Budget Partnership and Code for Africa affiliates in Kenya, Tanzania & Uganda.

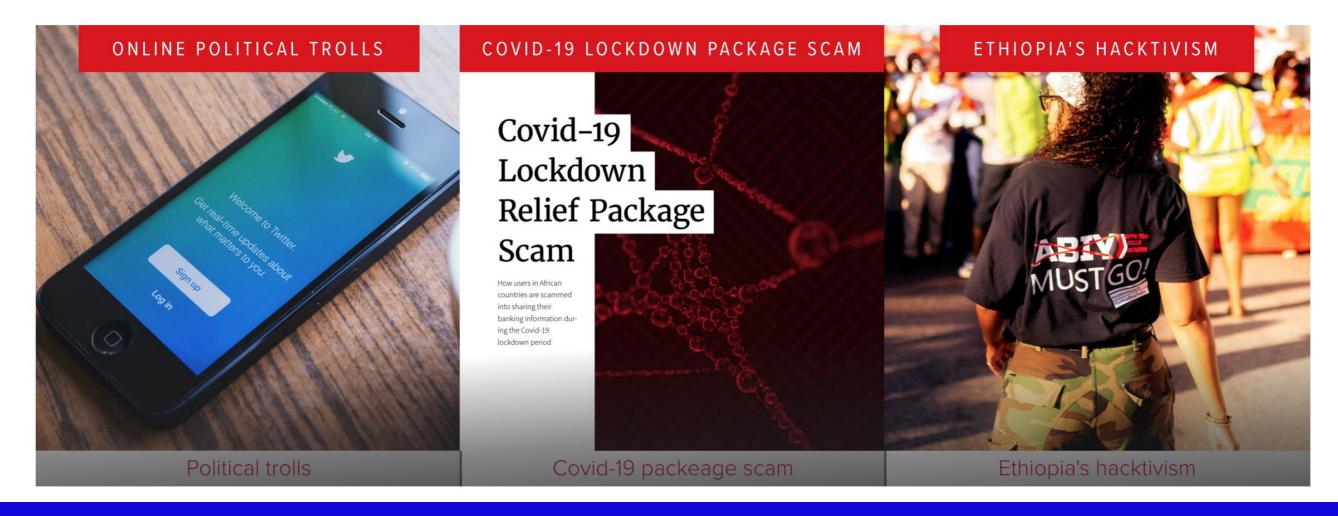


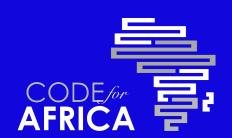
PesaCheck

Code for Africa's pan-African fact-checking initiative

iLAB Featured Dossiers.

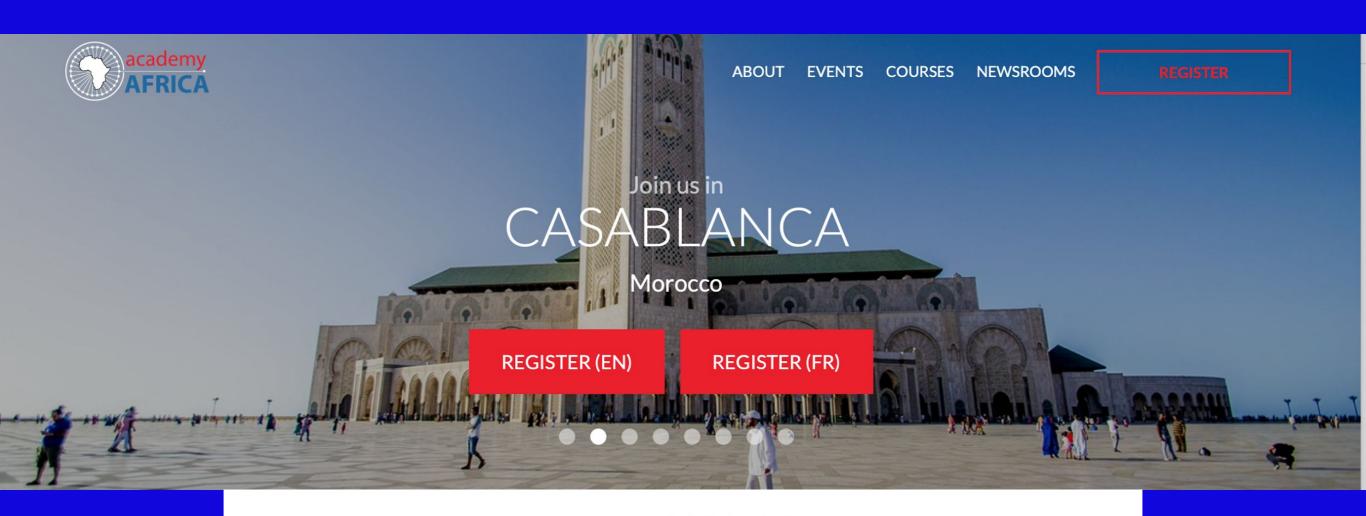
ANCIR partners with investigative newsrooms to produce data-driven investigative reports using social network analysis, entity analysis and open source intelligence.





iLab

Digital Forensics Investigators, investigating misinfo and disinfo



Improve your digital storytelling with a combination of online webinars and face-to-face training in:



News Gathering



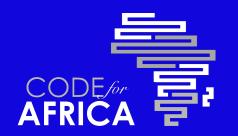
Storytelling



Engagement



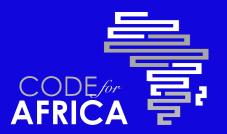
Sustainability



Academy.Africa

Giving African newsrooms access to the world's best digital experts and storytelling technologies.





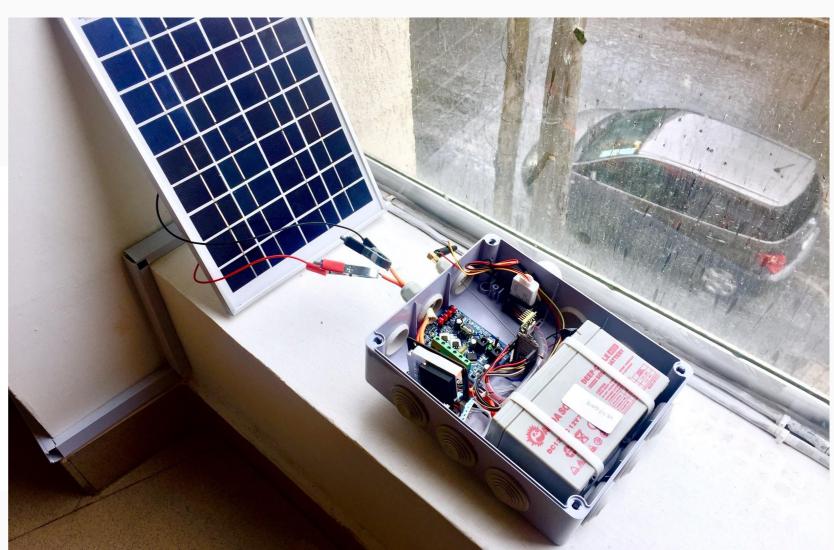
Wanadata

A Pan-African network of female data scientists, journalists and technologists working to change the digital media landscape by producing and promoting data-driven news.

Sensors. Africa

- We support deployment
 of revolutionary new
 digital sensors and
 advanced algorithms
 that provide citizens
 with real-time alerts
 while also producing
 analytical data.
- Our labs currently support sensors that focus on outbreaks of cholera or other waterborne diseases, as well as when air / sound pollution exceeds safe limits.







=

WHO Guideline (10)
Lowest level at which
premature mortality
increases inresponse to
long term exposure

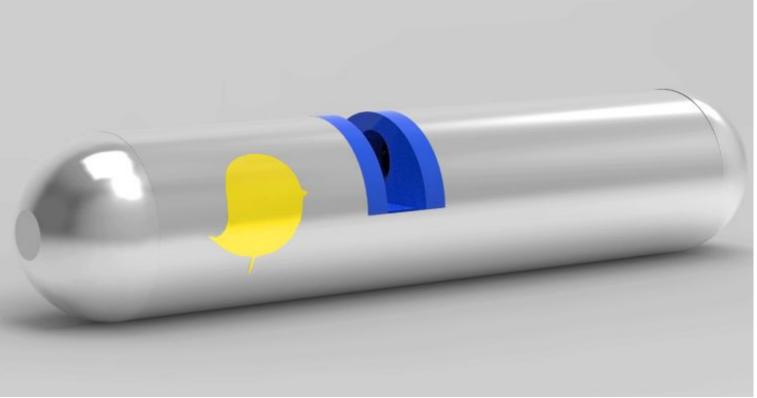




*PM_{2.5} concentrations measured in micrograms of particles per cubic meter of air (µg/m ³)

Data: WHO Global Platform on Air Quality & Health







BIG READ / DEADLY AIR



THE-STAR.CO.KE

MUKURU FUMES PUT 60 ASTHMA PATIENTS A MONTH IN HOSPITAL

Residents are up in arms over pollution from nearby factories. Dozens suffer respiratory tract infections, including pupils whose learning ability is also impaired

PATRICK VIDUA

As we wait to be let into Maendeleo Learning Centre, smoke drifts over iom the chimney of a factory next door. The amolae engolfs the school's where the last lesson of the day is in

ehildren and trachery have no very of some les that week everywhere, causing a burning itch so the skin.

What can we do? They need to finish their is flabrases before the school year ends," a teacher says.

Oblivious to the smoke and dosk, some of the children play in the dusty shapmond. Others walk to the index Mixto, which sheer a wall with the bo nors and bear the brust of the furnes

The school in Mularra loss Residen

Elijah Gochold is the CEO at Makeeu Kwa Reuben Clinic. He sees up to 40

patients a day on average, all with re-spiratory tract infects on and allments. school. It is nestled in between two factories. Shachu Industries Limited. Gachulo attributes the poor bealth large volumes of pollution from gaser and its subsidiary; Accumie Steel Mills. ed by nearby indestries. Residents have time and again com-

Talking to the Star, he said, "Most plained to the authorities about the of the patients we see have upper and nexious air coming from the factories. lower respiratory tract infections. In ome cases, they complain of severe chest pain. We are usually unable to Lucus Maina, who has lived in Kwa Reuben for 28 years, says he and othdeal with the more extreme of these cases, so muny are referred to Marris er residents are worried about their Locy Hospital, Mbagathi District Hos health and that of their children. They have no option but to stay in the set-

pital and Keryarta National Hospital." by gis and dost entissions. "Ourrenth post. At the end of the day you have to moothly at our TB clinic," he says. about your swifters the following day

over the wars. Our hands are ned be

suse that is where we get our daily

you can't step foot near the factory. So up with proper wiese disposal mech you test keep-quiet," he says. Morrode (not her real name) says aroses to stop the dust and go emisshe has lived in Kwa Rouben for eight years. She woeries he her two child and exectally about her husband, who Larly children.

"He struggles to breathe," she says, a brighter future, we need to seriously sham, off Enterprise Road, has 275 pts adding. The suffers from a congested look at how to minipay this sir pollution," Gachrafd says.

An article in the Goodian news paper in August 2018 highlights the intelligence. The article, based on research-conducted in China, found that high pollution levels led to agrathmen drops in test scores in language and arithmetic, with the average impact being having lost a year of the person's

Other reported studies have linked toxic air to excremely high mortality in people with mental disorders, while another analysis found that people by

air pollution to cause permature deaths globally, scientists have found the first evidence that particles of air pollution travel through the lungs of pregrant women's longs and lodge in their placentas. This in a study conducted in

HIGHPOLLUTIONLEVELS

Following the complaints, the Star, in purtnership with Code for Africa, set or to set up air quality sensors in the Koxa Reuben village to measure the quality of the air residents some

The residents are also able to use the restings from the sensors to abox measures to improve the at quality. The sensors AFRICA projection of up in Missions Ross Resident leaber FM: 330 meters from Ap

high, and we were there to set what it sensors would tell us about pointed closer to the factories.

Air Ossily guidelines, thed collected over 24hrs, resident from around the sensor at Reuleo Phistri ues higher than the WHO W. four days of the week.

The values were so high department of a cleaner away from the factory The toe \$1 to the factory:

Our first reading at Marries



SEFERS FROM A CONSESTED DEST AND IT'S BEEN GETTING WATER THE HAMIS ARE THE MEDICAL TRAT IS WHERE WE SET OF BALLY SPEAD FACILITY WORKER'S WIFE

y November 7, 2018

Quality Randards. The factory with Or chemics emitting to the right of the school was identified as Divaria, but the could not be substantiated. themey is vesibly lower than the

or politions in the Rusan peighbour tool of You Reuben, Accurate Street the harbeen positively identified.

The factory, which has been in or midents until mid-2016. Speaking troi name used) said the factory did not have the levels of pollution i

the anaphigh into the air. But now the mode comes down through gaps in the factory's wall, between o

Karen showed us toto her horswhich a directly in the shadow of Accurate Seel. "The smoke is very heavy at contain times, and is accompanies ems corrosive to me the corrugated from top sheets of the mey's wall," she said.

recomes have been shown to have contract impact on the natural course to air and water includarbon denote and nitrogen oxides

Dust is formed in most of the steel industry's processes. The particles or ender than 2.5 micrograms. They are easily inhaled into the lungs and on the description the bis school or or

What environmental chemist Ev-as Nangale said following latest an-security of the Bhachu factory, they had discined the company to take its changes from 25m to at least 50m. se the dispersion rate of the

tode recalling fabric filters to reduce and for day pericles, using each precipitations that can be aipher and nitrogen casdes and

Namedo said "We have so

some off idea. It should petories follow-the-law people in Nwa Stratern

STEEL HILL ON THE SPOT

We emit no smoke and have Nema approval - factory director

Bhachu Industries boss says gas is trapped by convertors they installed

BY PATRICK VICEA (SVIS) Aparticle/ Multipuline Reuben summendents have long complained of chest pairs and asthma. They been it on gos and dust emissions from a subsidiary of Brach undustries Limited Accuse Street Mills However, the management of Bhachs denied the

Company director Guneer Brachusaid Transcortism stuciwe have allour licences, which are in accordance with

Adding 'Both Nerro and City Hallare aware of our existence, what we produce and the gases we emit. This is why we have a them with environment monitoring reports hat have been approved all through?

that trule been approved all through. Bruch is said they have fitted estably for conventions that you and regionistic heat but he farmace. These conventions, he said, have made it impossible for the company to bod gives through emissions.

"We have been here. We have over LODO permanent employees from the Reuben skirn, and none of them has

complained about anything, the said.
Throughout the interview Bhachu denied of claims by residents about the emosions saying he visits the save every day from 2pm and 5pm and neither beneaths managers have seen or beyold if such smoke.

this however contradicted our assessment and multiple videos and images showing the heavy choking smow that escapes through the factory's walls instead of through the existing differences, forcing residents to vacate the area to

TAM A MULTI-BILLION INVESTOR WITH ABOUT FINE BANKS LENDING ME LOGHS_ YEAR MOT LET SUCH SMALL ISSUES AFFECT SUCH AN INVESTMENT, I HAVE EMPLOYED THESE PEOPLE. I RUN & SCHOOL IN THEIR COMMUNITY. THIS IS HOW TREY WANT TO REPSY ME?

Brachs was agrated as heself. Tamanall: 600 investor with about the banks lending melicans to unlithese businesses. With the trader assenting, when thing and manufacturing or got cythere, committed with small trades affect such small trades affect such small trades.

aleasy South investment of the way of comments who is always fought once was abnothing a south in certifying that the shower copies from the walkerby, certifying that the shower copies from the walkerby, certifying that would conjugate the copy from Account Sheet Mill Blooks saddle would only produce the certificate when we had office witters

would only produce the certificate when we had official letters indicating a try we receded its seet.

Brach indemninated that we disclose which had focus with the information. Thave on population has beginning in the commonthy and do many things for them. The instruction which commonly a wind one sub-participation the them. The inhose they work to repair month to past.

So we counting with the said of the story residents, living with the effects of pollution that will affect them by years to come, and or the other hand, the company that does all culture of polluting the environment.

Solemos through the disacrafement by the an sensors, stores with sole in this. These we have you disabilities will store on the form and controlled and intelligence.

of lows which side is true. There are heavy policiants in the at higher than the manufacted Neona negations for Particulate

The easy is that the long-term effects of the at policition that resolvers of Municipal tempers are hingured will refine the greater cycle of poverty.



Sunsers SFRICE

Medicine testing

- Fake or expired or otherwise unsafe medicines endanger 10,000s of the poorest across Africa.
- Chokers systematically tests medicines from pharmacies across Kenya, prompting the government recall of a widely used malaria medicine.
- The project is now being replicated in Tanzania and South Africa.



About this project

This project seeks to establish the prevalence of counterfeit medicine in three Kenyan cities to inform policies. The most frequently counterfeited medicines are expensive lifestyle medicines such as antibiotics, diabetics, hypertensives, hormones, analgesics, steroids and antihistamines.
Medicines easily counterfeited include; fast-moving popular brands, easily manufactured drugs.
over-the-counter prescriptions, supplies to goverment institutions and export products. The
influx/prevalence of counterfeit medicines (cosmetics) in Kenya considering that counterfeits could cause death of patients or antibiotic resistance.

Objectives

- Spark public reaction through compelling stories substandard or counterfeit medicines
- Determine effect of unauthorized production of medicine (counterfeiting) on the pharmaceutical distribution and retailing in three major cities in Kenya.

Operation ACIM - Action Against Counterfeit and Illicit Medicines

The field surveillance exercise dubbed Operation ACIM (Action against Counterfeit and Illicit Medicines) following the success of a similar exercise last September. Featuring 16 African customs administrations including Kenya, Operation ACIM simultaneously inspected cargo containers identified as likely to contain illicit or counterfeit pharmaceutical products posing a dangerous threat to local populations.

The biggest interceptions were in Nigeria, Benin, Kenya and Togo - in that order," says WCO secretary-general Kunio Mikuriya. "All these potentially dangerous medicines to animal and human health have been withdrawn from the market instead of being sold to the African populations."

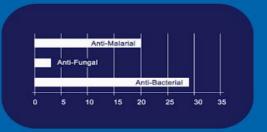


113 Million

Some 113 million illicit and potentially dangerous medicines were seized during the operation, with a total estimated value of €52 million (Sh6 billion).



Anti- Effective Agents



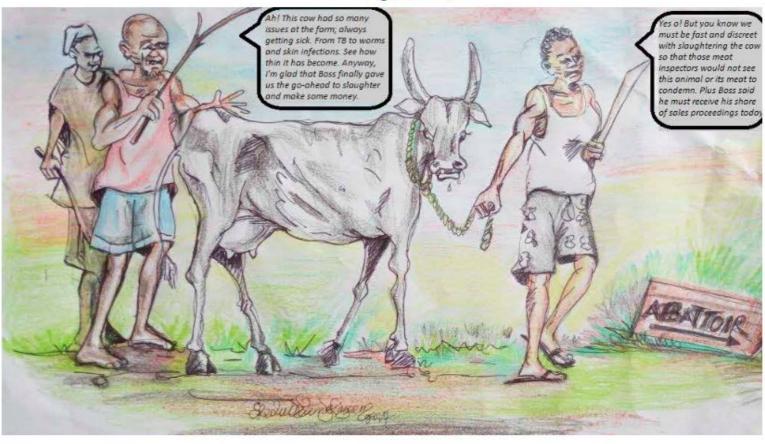
Anti- Effective Agents

or Follow the Story on Business Daily

Dodgy meat

- Informal abattoirs supply meat to millions of Africans: but is it safe?
- Our pilot project in Lagos collected 5 to 7 meat samples daily, with lab tests confirming widespread contamination with bovine tuberculosis (TB) and up to 25% infected with worms.
- The project sparked health inspections / raids in Lagos.
- We're now replicating the project in Kenya & South Africa.



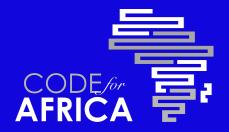






Steal Our Stuff

Fast-track your project by tapping into our people + tools.



africanCOMMONS

Showcasing re-useable tools built across Africa and the people & organisations building them.

Projects	
Organisations	•
People	



Contribute

Add your project...

+ Add Project

+ Add Organization

@Code4Africa

CfA Github: http://bit.ly/CfAgithub

CfA Slack: http://bit.ly/C4Aslack

