Data Science Nigeria activities on COVID-19 Project Update

VODAN Engagement meeting

04/08/2020

Olubayo Adekanmbi
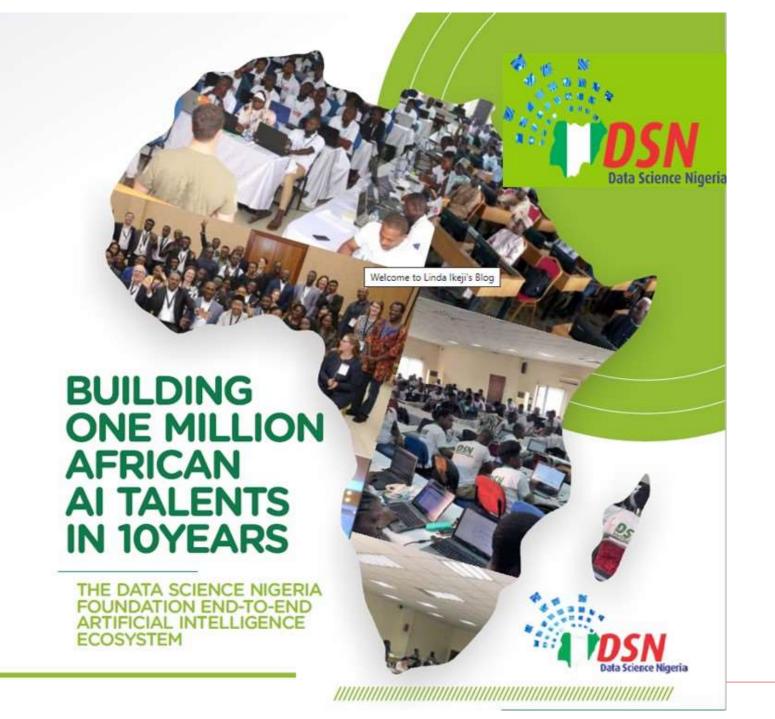
Agenda

› About Data Science Nigeria

› Update on COVID-19 work in Nigeria

BUILDING
ONE MILLION
AFRICAN
AI TALENTS
IN 10YEARS

THE DATA SCIENCE NIGERIA
FOUNDATION END-TO-END
ARTIFICIAL INTELLIGENCE
ECOSYSTEM

No 1 Artificial Intelligence learning community and solution delivery network in Africa

- *Won the Matthai Impact Award at Deep Learning Indaba 2019:*

Hundreds of thousands trained FREE via online, offline, face-to-face, content development and job placement

Award-winning AI learning community
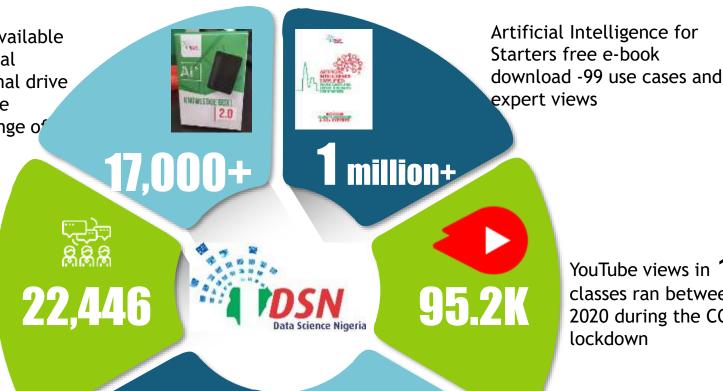
World Economic Forum Review of Data Science Nigeria

AI learning videos – publicly available contents from top international universities- curated in external drive and distributed free across the country to address the challenge of poor internet

17,000+

Artificial Intelligence for Starters free e-book download -99 use cases and expert views

1 million+

Online participants in Data Science courses from registration to at least one class.

22,446

YouTube views in **18** online classes ran between March – May 2020 during the COVID-19 lockdown

95.2K

YouTube views of the 100 Days of Machine Learning from Beginner to expert level classes

271,807

> 3,000

Hours of face-to-face free classes in Data Science and Machine learning applications organised in different states of Nigeria
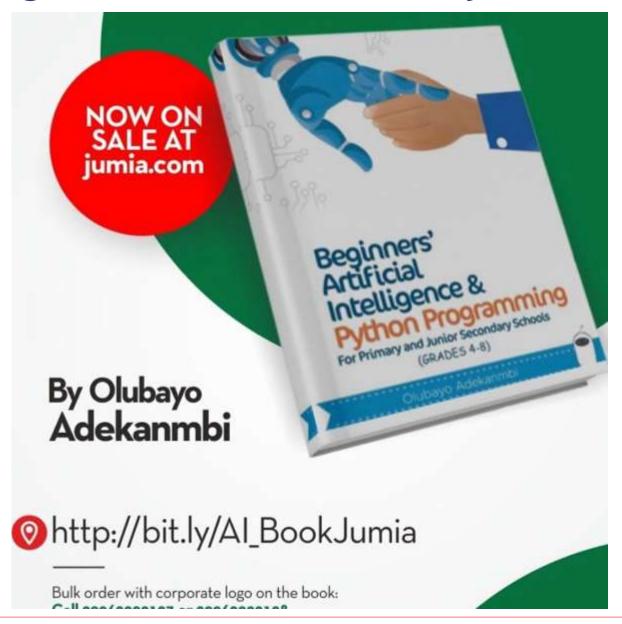
Data Science Nigeria has 30 unique platforms to deliver data science learning face to face, online, offline and hands-on and with impact on hundreds of thousands

Segments	Face to Face	Online	Offline Content	Hands-on
Beginners	• AI Wednesdays (Intro Python/ML) • AI Invasion		• AI for Starters ebook	• Industry Use Case Discussion sessions
Kids/Teens	• Pre-University Intro Python/ML • AI Summer School for Kids	• Weekly AI Slack Discussion Channels	• Python and Machine Learning for Grades 5-9	
Intermediates to Experts	• Deep Learning Nigeria • AI Bootcamp	• 100 Days of Machine/Deep Learning via YouTube • AI Mentorship • AI Dial-in Masterclass	• AI Knowledge Box	• DataHack • Data Scientists On Demand • On-project Internship
University Students	• AI+ Clubs • Intercampus Machine Learning Competition • AI+ Researchers Forum			• AI MiniLabs and Tools
Professionals/C-level Executives/ Government agencies	• Business Analytics for Professionals • AI for Executives • AI Summit		• Ai+ Professional meet-up	

First Artificial Intelligence Book for Primary and Secondary School
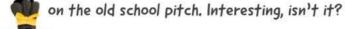
MACHINE LEARNING:
How Machine Learns from Patterns

In this chapter, we are going to learn about:

✔ Patterns in AI.

✔ How AI uses patterns to make prediction.

✔ How AI learns from pattern and the past.

Join me to explore the wonderful world of patterns and predictions, that is, learning from what has happened before to predict what will happen in the future.

I can think of a pattern now! I remember that each time Grade 5 and Grade 6 play football, there is a pattern of who wins — and I think I know why! Grade 5 football team always win when they plays with their main goalkeeper, Adaeze, and only when the match is held on the old school pitch. Interesting, isn't it?
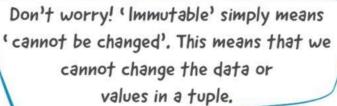
What is a tuple?

A tuple is like a list. It is a data structure where we can store values and data. But unlike a list, a tuple is immutable.

Immutable? What on earth does 'immutable' mean?

Don't worry! 'Immutable' simply means 'cannot be changed'. This means that we cannot change the data or values in a tuple.

Ok, so that's what makes them different to lists. We can change the data or values in a list, but we cannot change the data or values in a tuple.

International Conference on Learning Representations (ICLR 2020)

SEMANTIC ENRICHMENT OF NIGERIAN PIDGIN ENGLISH FOR CONTEXTUAL SENTIMENT CLASSIFICATION

Olubayo Adekanmbi

Wuraola Fisayo Oyewusi | Olalekan Akinsande
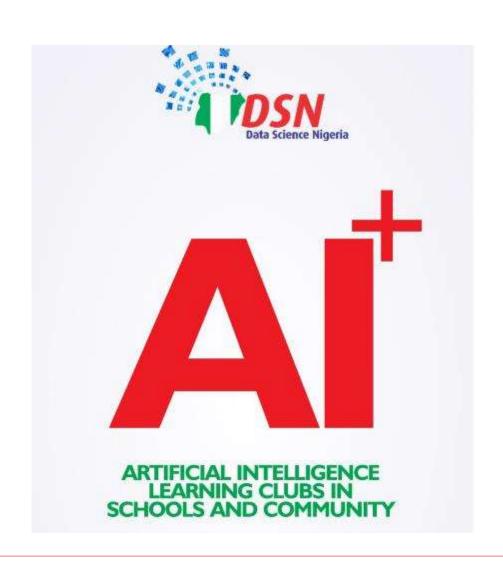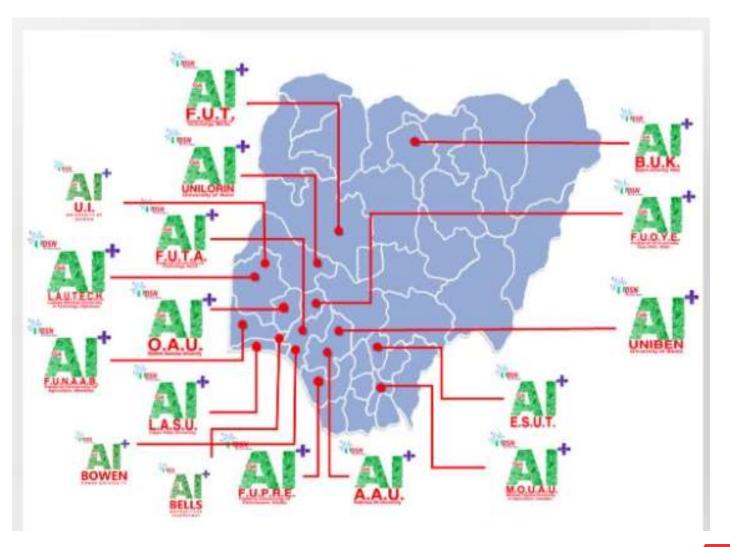
AI.Everyday

Daily Learning at our new AI Hub in Yaba

- Monday – Pre-University Intro Python/ML Class (10-1pm) 10 weeks
  From June 3

- Tuesday – Deep Learning/Fast.ai Masterclass (3-5pm) 14 weeks
  From June 11

- Wednesday- Introductory Python (12-2pm) 8 weeks   *From June 11*

- Wednesday- Beginners Class In Machine Learning (3-5pm) 8 weeks
  From June 19

- Thursday - Pre-University Intro Python/ML Class (10-1pm) 10 weeks
  From June 3

- Friday - AI4Good Lab focused on SDGs (12-2pm) E.g AgroAI research
  From July 5

- Saturday- Business Analytics for Professionals (9am-12) for 5 weeks
  From July 6
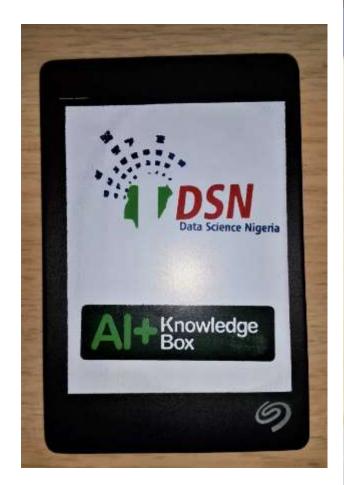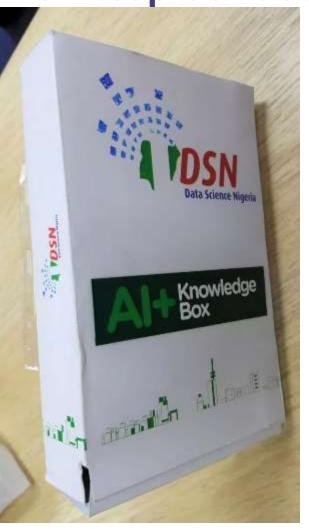
We democratised the learning with first-of-its-kind AI+ Knowledge Box – a USB of over 17,000 publicly available videos from top schools and conferences

› The AI box is 2 Terabyte external drive with 10,141 Learning videos, which has been professionally downloaded from diverse AI learning platforms of top international Artificial Intelligence universities, leading global Machine Learning researchers and first-rated AI conferences across the world.

› The selected videos are free and publicly available content, which were catalogued by knowledge level, interest, specialisation and domain of application.

› Frontally addresses the challenges of internet cost, electricity limitation and poor download speed. Any self-driven learner can now be well equipped with the most robust knowledge at the same level as the best experts who practice AI in top schools and research labs in the US, UK and Canada.

Companies We Have Trained

Shell · FCMB · HUAWEI · IHS Towers of strength · TIZETI · PHILLIPS CONSULTING · ARM LIFE · LAFARGE · KANTAR MILLWARD BROWN · AXA MANSARD

Driving industry level knowledge level -AI for Executive

A one-day masterclass to demystify the whole concept of Artificial Intelligence for executives, business leaders and strategic decision-makers.
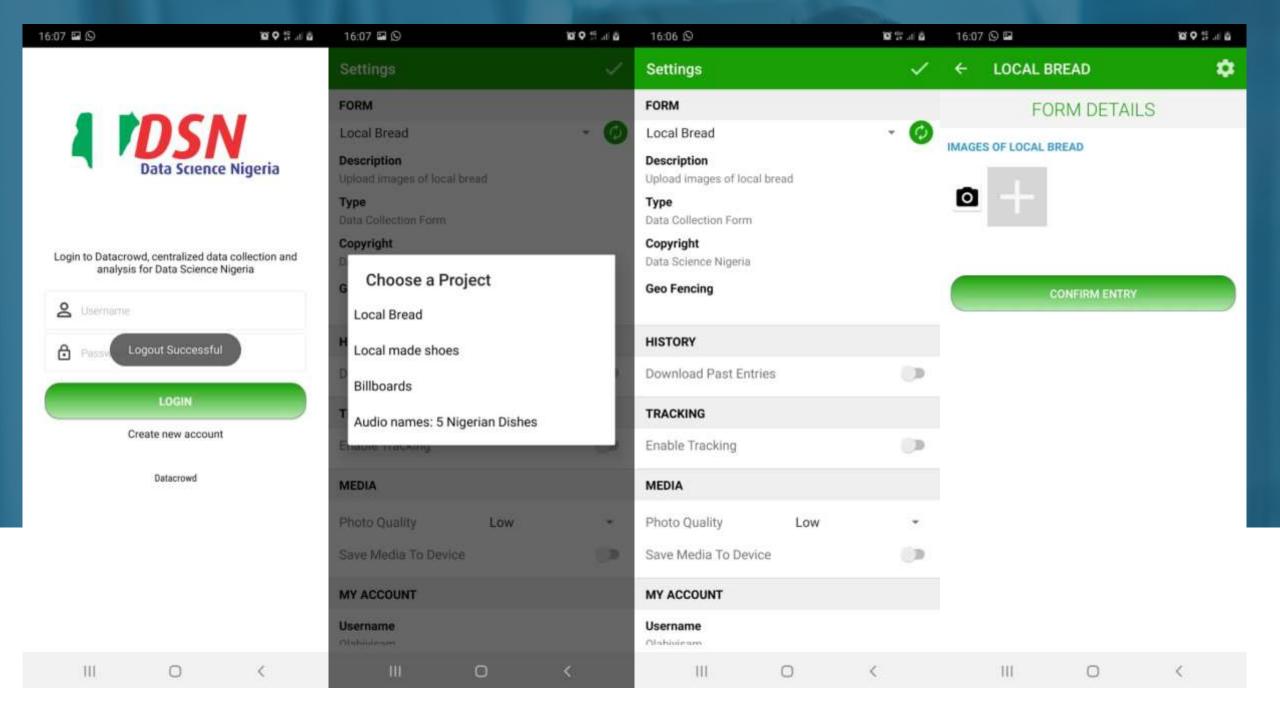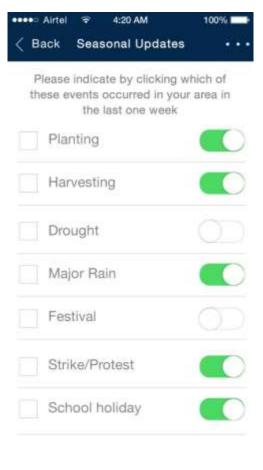
DataCrowd:
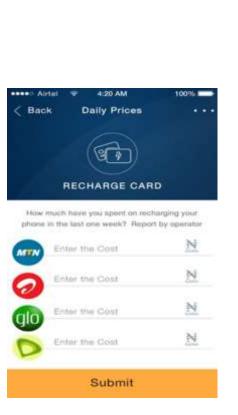
Leveraging the community to collect, share and utilise data

Agenda

› About Data Science Nigeria
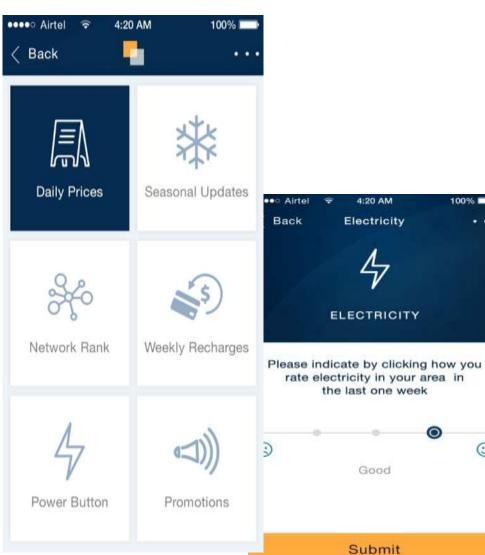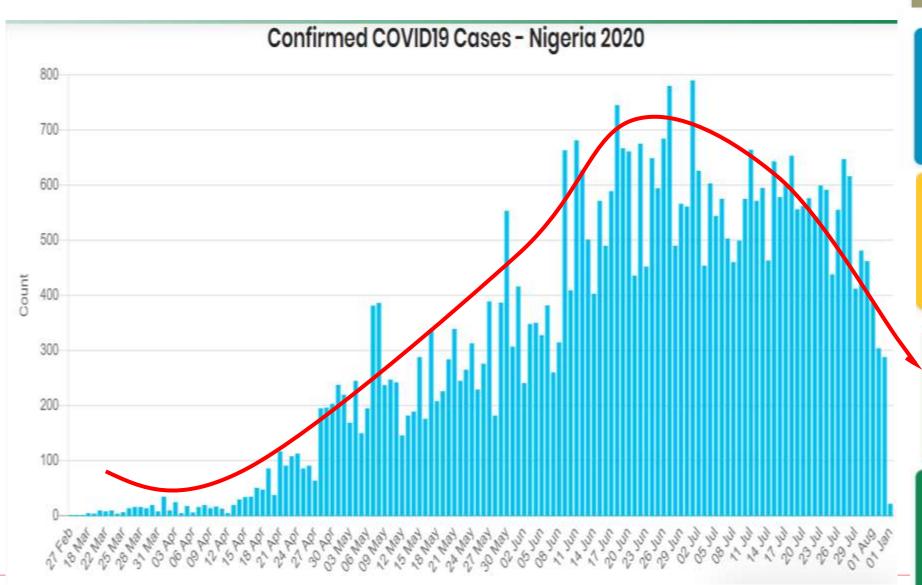
› **Update on COVID-19 work in Nigeria**

COVID-19 in Nigeria

Confirmed COVID19 Cases - Nigeria 2020

Samples Tested
287,532

Confirmed Cases
44,129

Active Cases
22,570

Death
896

Discharged Cases
20,663

COVID19 Rumour Analysis
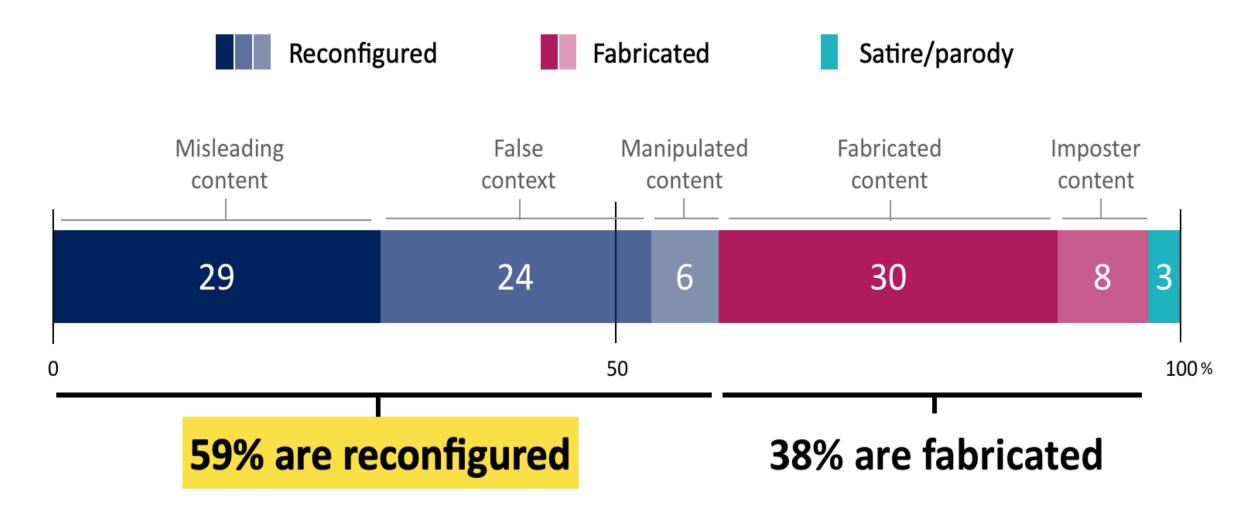
» **Peer-to-peer pattern of misinformation, disinformation and rumour construct**

» Help us to understand the pattern and nature of these information by sharing examples of the messages you have received lately

» Survey: https://bit.ly/COVID19_Infos

» Detailed Video: http://bit.ly/Task_Completion

Message Typologies and Transmission Rate

Reconfigured | **Fabricated** | **Satire/parody**

Misleading content	False context	Manipulated content	Fabricated content	Imposter content
29	24	6	30	8 3

0   50   100 %

59% are reconfigured

38% are fabricated

Adapting the work by Reuters Institute , Oxford University

https://reutersinstitute.politics.ox.ac.uk/types-sources-and-claims-covid-19-misinformation

Message Impact Analysis

DSN
Data Science Nigeria

Factual information		**Response**
Incomplete or biased information	**Channel**	Non-compliance with public health recommendations
Humorous content:		Perpetuating political conflict and racial discrimination
Misinformation/disinformation:	**Frequency**	Psychosocial effects
Claims management	**Insight**	Broader societal effects
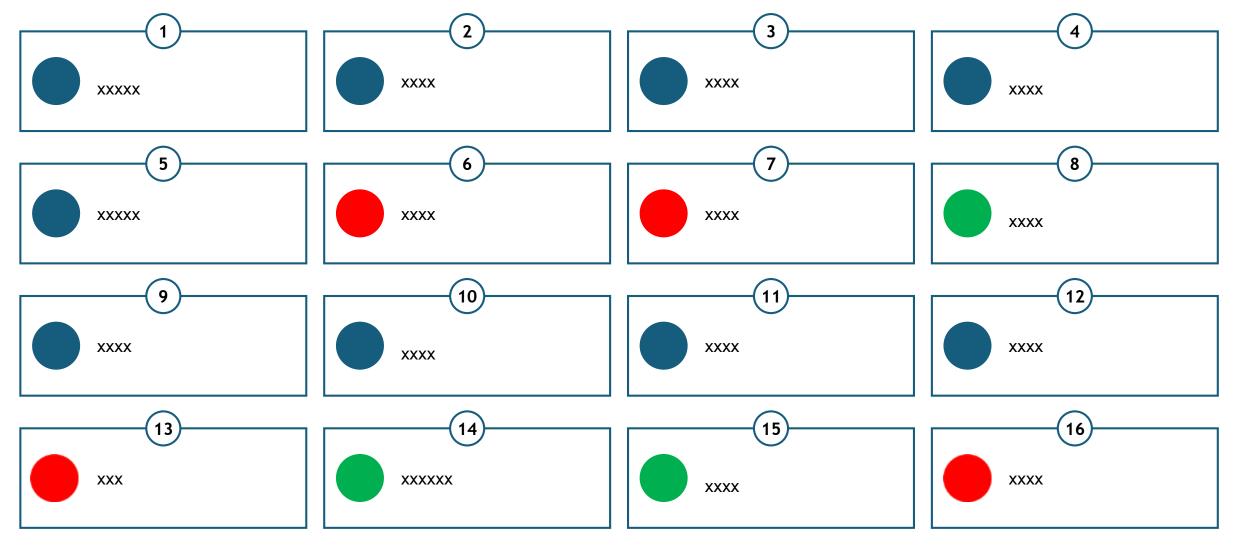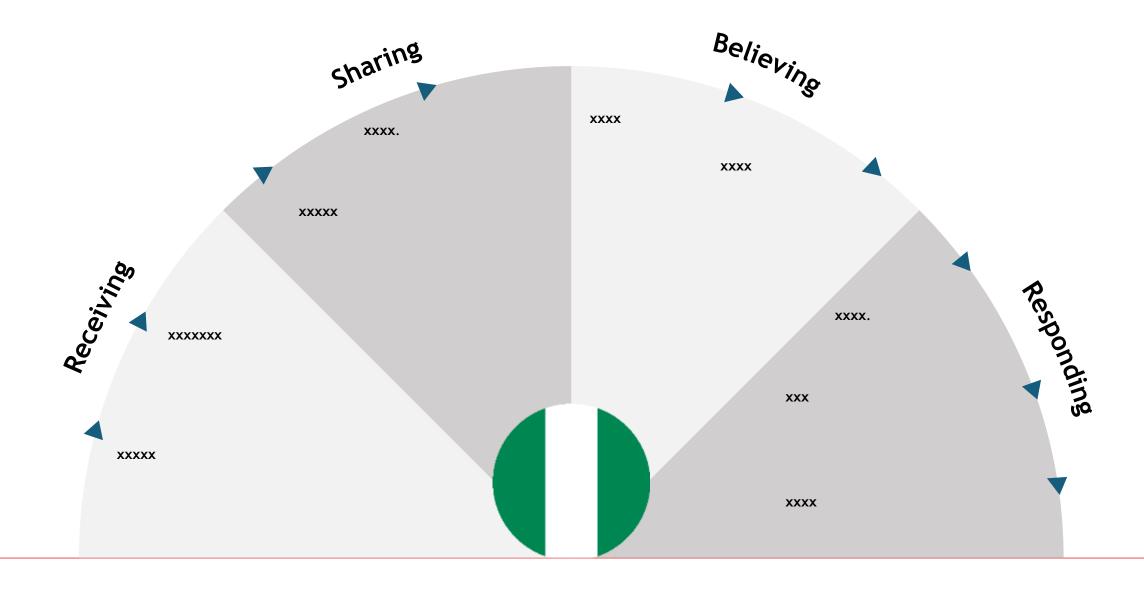
Message Type Analysis

1 xxxxx

2 xxxx

3 xxxx

4 xxxx

5 xxxxx

6 xxxx

7 xxxx

8 xxxx

9 xxxx

10 xxxx

11 xxxx

12 xxxx

13 xxx

14 xxxxxx

15 xxxx

16 xxxx

Sharing

Believing

Receiving

Responding

xxxx.

xxxx

xxxxx

xxxx

xxxxxxx

xxxx.

xxx

xxxxx

xxxx

Message Examples /1

Message Source	Message Content
Whatsapp	PREVENTION OF CONTACTING COVID-19: 1) Wash your hands regularly with clean water and any soap for at least 20 seconds. *Soap creates lather that penetrates the lipid membrane of the virus thereby weakening the virulence of the virus (its ability to infect host). *Do not use strong detergents to wash your hands to avoid causing you contact allergies (contact dermatitis).
Twitter	Avoid shaking of hands, wash your hands with liguid soap and running water or use acholic sanitizer
Others	The tobacco industry is creating controversy & confusion about the risk of nicotine & tobacco product use and #COVID19. FACT: Health experts have warned that smokers with COVID-19 likely suffer more serious conditions that could lead to premature death
E-mails	Webinar: Implications of the COVID-19 Pandemic for Food Security and Resilience in Africa
SMS	Pls stay safe at home, if u must go out practice social distancing, avoid toching surfaces & ur face.Above all wash ur hands regularly & apply alcohol
Whatsapp	BREAKING.... Pls my people do not receive any form of vaccine for the prevention of corona virus nor any form of injection from WHO, world health org, be very careful because this virus is a man made virus ta they are angry and in a plan to carry out there evil plans, they have resulted to sending the virus itself to Africans in d name of the vaccine. if u hear and doesn't let ur brother know, u have failed to protect a life message. save your families.
SMS	Take responsibility! Wash your hands frequently with soap under running water. Avoid touching your face & high-contact surfaces to prevent coronavirus spread#TakeResponsibility
SMS	Take Responsibility. Coronavirus spreads easily from person to person when people gather together. Stay at home to protect yourself and others
Whatsapp	According to WHO, there are two major stages of Covid19. (1) MILD Condition and (2) Critical condition. 1) MILD Condition Constitutes more than 95% of infected people in the world. Some only know they are infected because of the test result but they are not feeling any pain or do not have Corona symptoms. Some in this class some medications while some will transform to critical condition and may die later. 2) CRITICAL Condition Constitutes less than 5% of the infected people. This class of patients have all the symptoms of Covid-19 and most of them need ventilator or ICU to survive for a while. The mortality rate in this category is very

Whatsapp	Every day we are there: 1. Take Vit C-1000 2. Vitamin E 3. 10:00 - 11:00 sunlight for 15-20 minutes. 4. Egg one item 5. Take a rest / get a 7-8 hour min 6. Drink 1.5 L of water daily and every meal should be warm (not cold). That's what we do at the hospital. This is to tell all of us that the pH for the coronary virus varies from 5.5 to 8.5 What we need to do, to defeat the coronary virus, is to consume more alkaline foods above the virus's pH level. Some of them are: * Lemon - 9.9 pH * Lime - 8.2 pH * Avocados - 15.6 pH * Garlic - 13.2 pH * * Mango - 8.7pH * Tangerine - 8.5pH * Pineapple - 12.7 pH * Dandelion - 22.7 pH * Orange - 9.2 pH How did you know you had a coronavirus?

Message Examples /3

Whatsapp	VITAL INFORMATION TO THE PUBLIC: According to a chines professor Tangyouzhi he has advised the public to start using Fohow Sanqing Oral, Fohow Tea, Fohow Meigui paste and Fohow Oral Liquid For Prevention of Corona virus.
SMS	Avoid gatherings & physical contact. Practice social distancing by leaving 2 metres distance from others to prevent coronavirus spread. Take Responsibility!
Others	Cover your nose and mouth with a bent elbow or tissue when you sneeze or cough,"
SMS	Prevent coronavirus by cleaning all surfaces frequently. High-contact surfaces include door handles, stair rails and tables. Take Responsibility!
SMS	Take responsibility! Wash your hands frequently with soap under running water. Avoid touching your face &high contact surfaces to prevent Corona virus spread #takeresponsinity.
Whatsapp	Lagos State Government has announced that 17 hospitals have been exposed to covid-19 patients. The following hospitals have been exposed to Covid-19 cases in Lagos, Nigeria. 1. St Edwards Hospital, Ajah 2. Premier Specialist, VI 3. Vedic Lifecare, Lekki 4. The Point Hospital, Surulere 5. Chosen Church Hospital, Ijesha 6. Ikorodu General Hospital, Ikorodu 7. Alimosho General Hospital 8. Ultra Care Hospital, VI 9. St Nicholas Hospital, Lagos Island 10. Reddington Hospital, Lekki 11. Southern Shore Hospital, Chevron-Lekki 12. Paelon Memorial, Ikeja 13. Choice Opticals 14. First Cardiology Consultants, Ikoyi 15. County Hospitals, Ogba These are the ones we know about. As there is serious local transmission we cannot ascertain how many other private hospitals have been visited by covid-19 patients. Please advise anyone you know with co
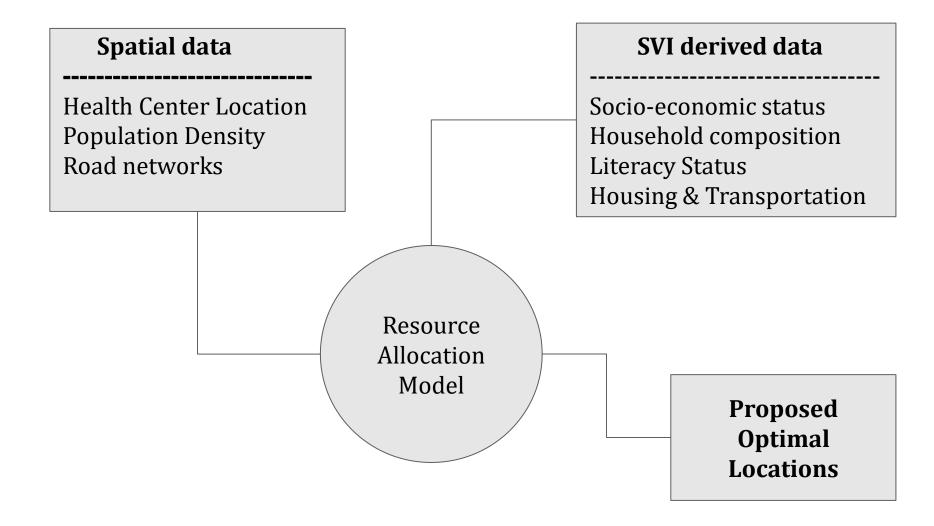
Optimizing Health Facilities Allocation for COVID-19 Management in Lagos State, Nigeria

Our Approach in solving the problem
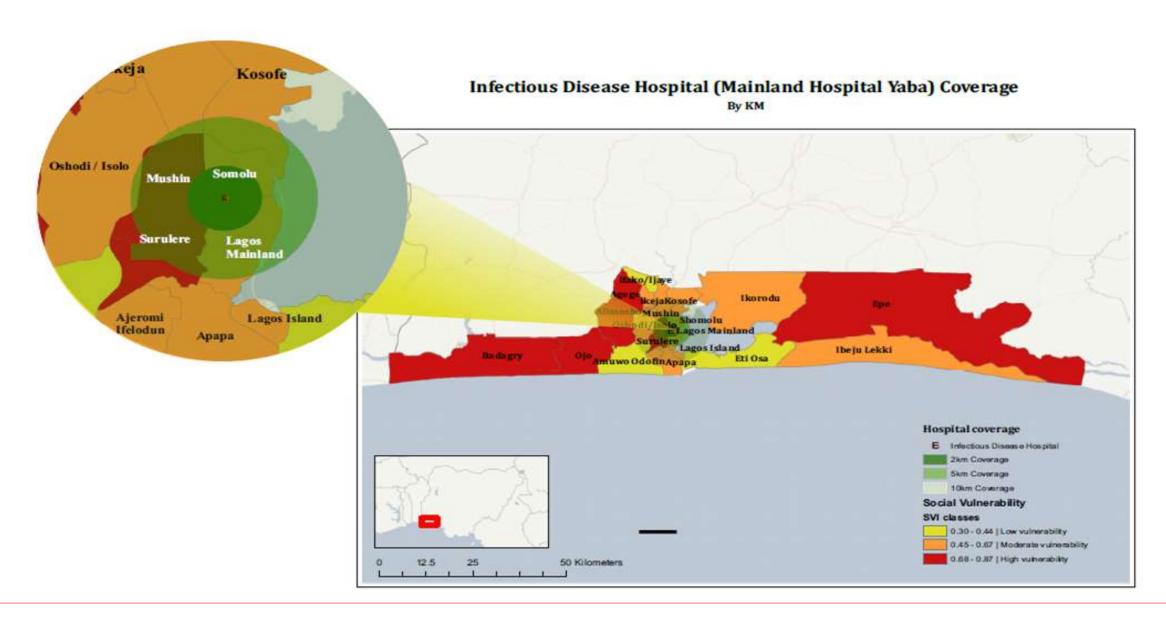
Applying
- ➔ Geospatial data analysis,
- ➔ SVI Metric,
- ➔ Health Facilities management & resource allocation algorithm..

Spatial data

Health Center Location
Population Density
Road networks

SVI derived data

Socio-economic status
Household composition
Literacy Status
Housing & Transportation

Resource Allocation Model

Proposed Optimal Locations
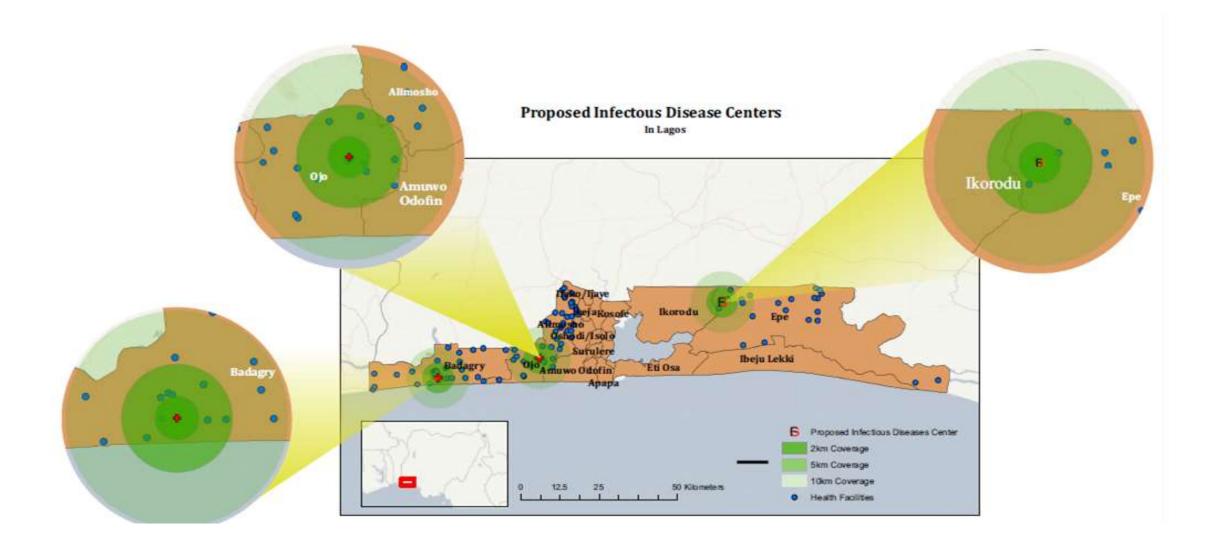
Specialized Hospital Coverage

Infectious Disease Hospital (Mainland Hospital Yaba) Coverage By KM

Proposed health facility location

Proposed Health Centers in Lagos State, Nigeria

Using the SVI, distribution of hospitals and coverage area, we propose some government-owned health centers around Lagos state that would aid curbing the effect of outbreaks in the highly vulnerable areas. We also give the closest alternatives to the proposed locations including their coordinates.

Proposed Center	Coordinates (Lat,Long)	Alternative Centers	Coordinates (Lat,Long)
General Hospital Badagry	(6.4136, 2.8977)	Marina Primary Health Centre	(6.4133, 2.8857)
		Ajara Flagship Health Care Center	(6.4346, 2.8905)
		French Village Health Center	(6.4330, 2.8947)
149 Battalion Medical Reception Stat	(6.4716, 3.1886)	Kemberi Primary Health Center	(6.4671, 3.1871)
		Lasu Health Centre	(6.4653, 3.2016)
		Okokomaiko Primary Health Care Board	(6.4707, 3.1911)
Agbowa General Hospital	(6.6372, 3.7146)	Agbowa Primary Health Centre	(6.6401, 3.7121)
		Owu Primary Health Center	(6.4346, 2.8905)
		Ado Ikosi Primary Health Center	(6.6182, 3.7055)

COVID19, SARs and Ebola patterns and intervention guide

Is COVID-19 pattern different from SARS and Ebola virus?

Comparative exploratory data analysis (EDA) of infectious disease outbreak by our in-house team at Data Science Nigeria. It explores the fatality and survival pattern in a dynamic visualization
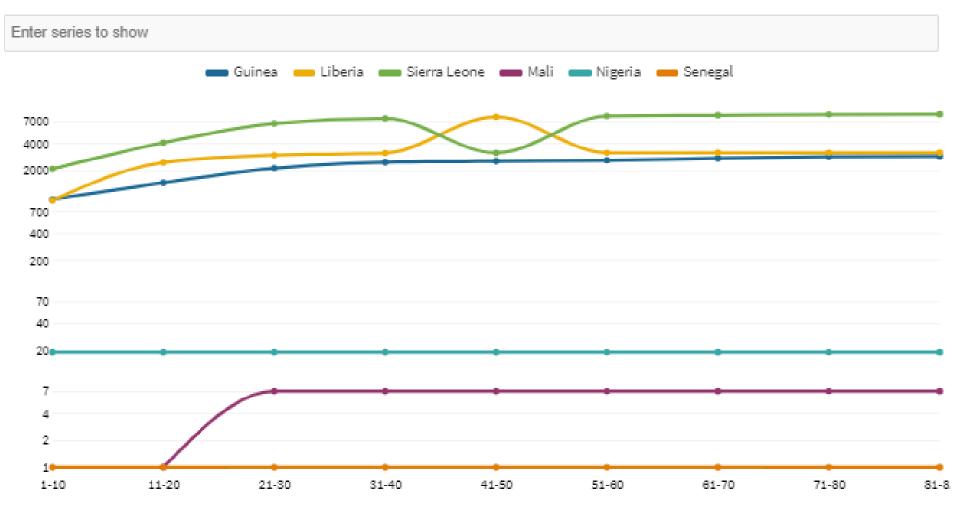
Check it out at **https://bit.ly/COVID19_EDA.**
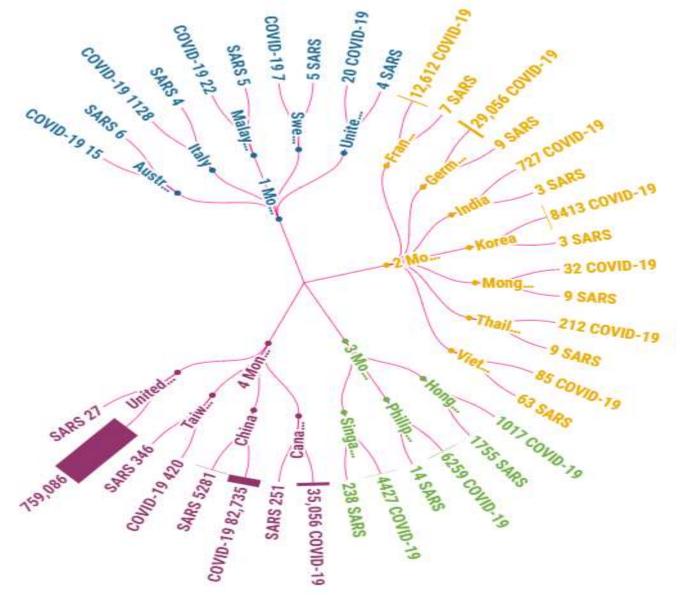
Trend analysis of confirmed Ebola cases in the first 10 to 85 days in affected African countries

Comparison of SARS and COVID-19 cases in affected countries within 1 to 4 month
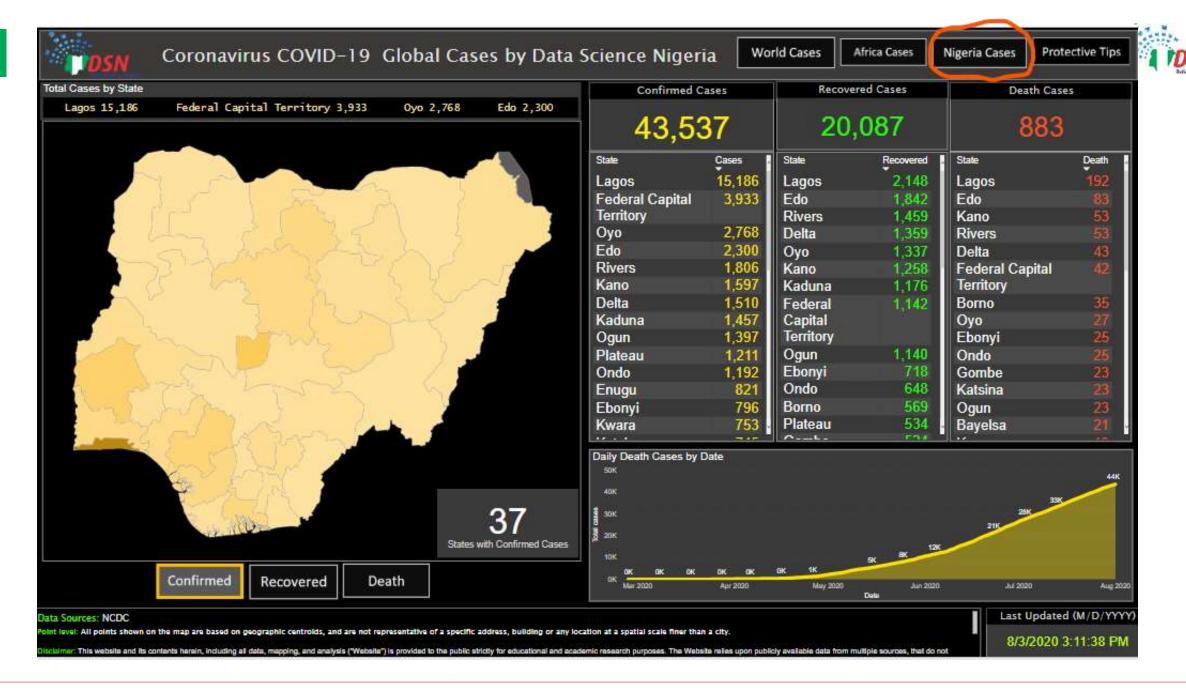
COVID-19 Dashboard and Preventive Tips

Development of dashboard for tracking COVID-19

In response to the COVID-19 outbreak, our technical delivery team developed a real-time interactive dashboard to track the COVID-19 cases around the world. The dashboard is available at bit.ly/coronaViz2

Coronavirus COVID-19 Global Cases by Data Science Nigeria

World Cases | Africa Cases | Nigeria Cases | Protective Tips

Total Cases by State

Lagos 15,186   Federal Capital Territory 3,933   Oyo 2,768   Edo 2,300

| Confirmed Cases		Recovered Cases		Death Cases	
43,537		**20,087**		**883**	
State	Cases	State	Recovered	State	Death
Lagos	15,186	Lagos	2,148	Lagos	192
Federal Capital Territory	3,933	Edo	1,842	Edo	83
		Rivers	1,459	Kano	53
Oyo	2,768	Delta	1,359	Rivers	53
Edo	2,300	Oyo	1,337	Delta	43
Rivers	1,806	Kano	1,258	Federal Capital Territory	42
Kano	1,597	Kaduna	1,176		
Delta	1,510	Federal	1,142	Borno	35
Kaduna	1,457	Capital		Oyo	27
Ogun	1,397	Territory		Ebonyi	25
Plateau	1,211	Ogun	1,140	Ondo	25
Ondo	1,192	Ebonyi	718	Gombe	23
Enugu	821	Ondo	648	Katsina	23
Ebonyi	796	Borno	569	Ogun	23
Kwara	753	Plateau	534	Bayelsa	21

37 States with Confirmed Cases

Confirmed | Recovered | Death

Daily Death Cases by Date

Data Sources: NCDC

Point level: All points shown on the map are based on geographic centroids, and are not representative of a specific address, building or any location at a spatial scale finer than a city.

Disclaimer: This website and its contents herein, including all data, mapping, and analysis ("Website") is provided to the public strictly for educational and academic research purposes. The Website relies upon publicly available data from multiple sources, that do not

Last Updated (M/D/YYYY)
8/3/2020 3:11:38 PM

50

World Cases | Africa Cases | Nigeria Cases | Protective Tips

COVID-19 is still affecting mostly people in China with some outbreaks in other countries. Most people who become infected experience mild illness and recover, but it can be more severe for others. Take care of your health and protect others by doing the following:

1. Wash your hands frequently
Regularly and thoroughly clean your hands with an alcohol-based hand rub or wash them with soap and water.
Why? Washing your hands with soap and water or using alcohol-based hand rub kills viruses that may be on your hands.

2. Maintain social distancing
Maintain at least 1 metre (3 feet) distance between yourself and anyone who is coughing or sneezing.
Why? When someone coughs or sneezes they spray small liquid droplets from their nose or mouth which may contain virus. If you are too close, you can breathe in the droplets, including the COVID-19 virus if the person coughing has the disease.

3. Avoid touching eyes, nose and mouth
Why? Hands touch many surfaces and can pick up viruses. Once contaminated, hands can transfer the virus to your eyes, nose or mouth. From there, the virus can enter your body and can make you sick.

4. Practice respiratory hygiene
Make sure you, and the people around you, follow good respiratory hygiene. This means covering your mouth and nose with your bent elbow or tissue when you cough or sneeze. Then dispose of the used tissue immediately.
Why? Droplets spread virus. By following good respiratory hygiene you protect the people around you from viruses such as cold, flu and COVID-19.

5. If you have fever, cough and difficulty breathing, seek medical care early
Stay home if you feel unwell. If you have a fever, cough and difficulty breathing, seek medical attention and call in advance. Follow the directions of your local health authority.
Why? National and local authorities will have the most up to date information on the situation in your area. Calling in advance will allow your health care provider to quickly direct you to the right health facility. This will also protect you and help prevent spread of viruses and other infections.

6. Stay informed and follow advice given by your healthcare provider
Stay informed on the latest developments about COVID-19. Follow advice given by your healthcare provider, your national and local public health authority or your employer on how to protect yourself and others from COVID-19.
Why? National and local authorities will have the most up to date information on whether COVID-19 is spreading in your area. They are best placed to advise on what people in your area should be doing to protect themselves.

Read More

World Health Organization

Last Updated (M/D/YYYY)
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Even though the new coronavirus can stay on surfaces for a few hours or up to several days (depending on the type of surface), it is very unlikely that the virus will persist on a surface after being moved, travelled, and exposed to different conditions and temperatures. If you think a surface may be contaminated, use a disinfectant to clean it. After touching it, clean your hands with an alcohol-based hand rub or wash them with soap and water.

World Health Organization #Coronavirus #COVID19

FACT:
The new coronavirus cannot be transmitted through goods manufactured in China or any country reporting COVID-19 cases

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To date there has been no information nor evidence to suggest that the new coronavirus could be transmitted by mosquitoes.
The new coronavirus is a respiratory virus which spreads primarily through droplets generated when an infected person coughs or sneezes, or through droplets of saliva or discharge from the nose.
To protect yourself, clean your hands frequently with an alcohol-based hand rub or wash them with soap and water. Also, avoid close contact with anyone who is coughing and sneezing.

World Health Organization #Coronavirus #COVID19

FACT:
The new coronavirus CANNOT be transmitted through mosquito bites

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At present, there is no evidence that companion animals / pets such as dogs or cats can be infected with the new coronavirus. However, it is always a good idea to wash your hands with soap and water after contact with pets. This protects you against various common bacteria such as E. coli and Salmonella that can pass between pets and humans.

World Health Organization #Coronavirus

Can pets at home spread the new coronavirus (2019-nC0V)?

Data Sources: WHO, worldometer
Point level: City level – All points shown on the map are based on geographic centroids, and are not representative of a specific address, building or any location at a spatial scale finer than a city
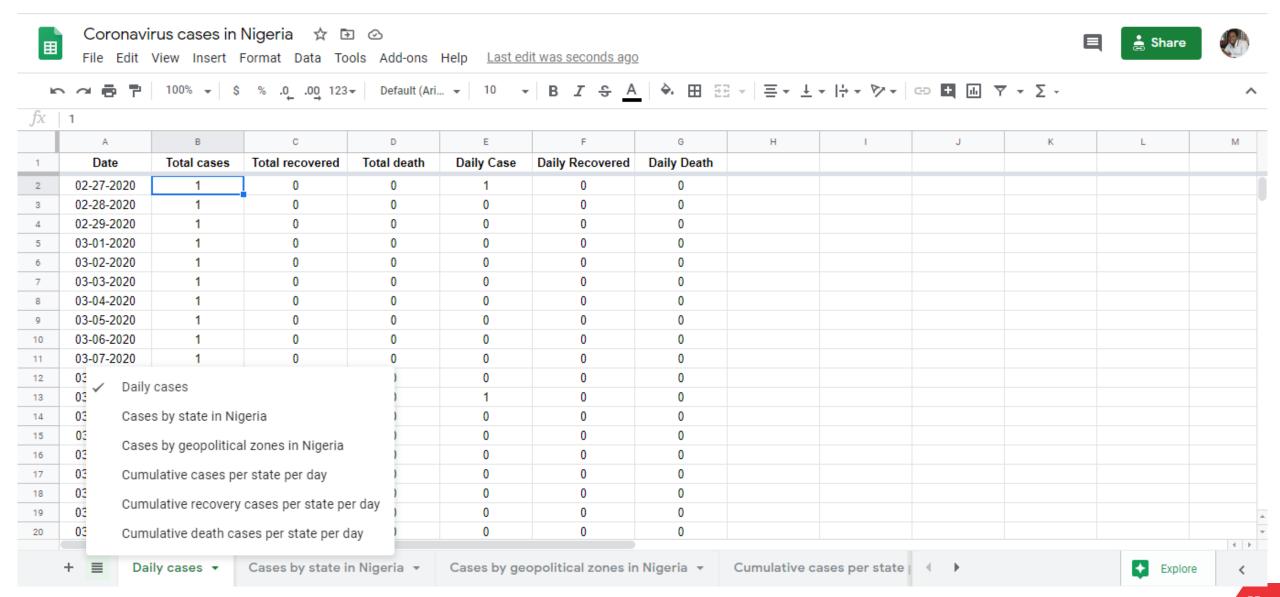
Available Dataset for DSN FDP

Available Dataset for DSN FDP

Sensitivity: Internal

Available Dataset for DSN FDP

COVID-19 and economic data .XLSX

File Edit View Insert Format Data Tools Help   Last edit was seconds ago

Share
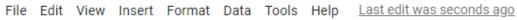
=VLOOKUP($A13,'NCDC references'!$A$2:$E$38,2,FALSE)

	Location		Geo Coordinate		Population estimates of 0 to 100 years old from GEOPODE			COVID-19 report as of August 2, 2020 from NCDC			
State	Geo political zone	Latitude	Longitude	Female	Male	Total	No. of Cases (Lab Confirmed)	No. of Cases (on admission)	No. Discharged	No. of Deaths	2
Abia	South East	5.532003041	7.486002487	2,117,742	1,965,828	4,083,570	582	106	471	5	
Adamawa	North East	10.2703408	13.2700321	1,834,828	1,771,877	3,606,705	164	69	85	10	
Akwa Ibom	South South	5.007996056	7.849998524	1,801,535	1,684,078	3,485,613	221	64	150	7	
Anambra	South East	6.210433572	7.06999711	2,192,738	2,036,023	4,228,761	135	48	75	12	
Bauchi	North East	11.68040977	10.19001339	3,140,988	3,038,042	6,179,030	560	27	520	13	
Bayelsa	South South	4.7719	6.0699	560,865	539,087	1,099,952	339	39	279	21	
Benue	North Central	7.190399596	8.129984089	2,286,249	2,161,538	4,447,787	356	285	64	7	
Borno	North East	10.62042279	12.18999467	2,883,631	2,692,682	5,576,313	613	9	569	35	
Cross River	South South	4.960406513	8.330023558	1,554,583	1,414,947	2,969,530	58	35	19	4	
Delta	South South	5.890427265	5.680004434	1,880,125	1,785,026	3,665,151	1,510	108	1,359	43	
Ebonyi	South East	6.178	7.9593	1,438,935	1,332,597	2,771,532	808	49	733	26	
Edo	South South	6.340477314	5.620008096	2,057,366	1,963,003	4,020,369	2,311	335	1,892	84	
Ekiti	South West	7.630372741	5.219980834	1,049,887	1,023,826	2,073,713	152	83	67	2	
Enugu	South East	6.867034321	7.383362995	1,482,946	1,371,914	2,854,860	821	378	425	18	
Gombe	North East	10.29044293	11.16995357	1,473,771	1,387,304	2,861,075	612	61	528	23	
Imo	South East	5.492997053	7.026003588	3,670,761	3,480,781	7,151,542	469	324	136	9	
Jigawa	North West	11.7991891	9.350334607	2,906,401	2,792,478	5,698,879	322	3	308	11	

+ ≡   Data ▾   NCDC references ▾   References ▾   Explore
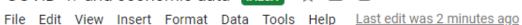
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69.88873911804

	Location		States budget scraped from various newspapers in Nigeria			Total revenue available to States from National Bureau of		
	State	Geo political zone	2019 Budget (bn)	2020 Initial budget (bn) presented	2020 Revised budget (bn) due to COVID-19	FAAC 2019 (bn)	IGR 2019 (bn)	Total revenue available in 2019 (bn)	Tota
Abia	South East	140.21	136.6	102.7	52.04	14.77		66.81
Adamawa	North East	244	183.3	139.308	48.34	9.70		58.04
Akwa Ibom	South South	672.98	597.73	366	171.98	32.29		204.27
Anambra	South East	157.1	137.1	112.8	53.89	26.37		80.26
Bauchi	North East	198.85	167.2	128	52.36	11.70		64.05
Bayelsa	South South	299	242.18	183.15	140.13	16.34		156.47
Benue	North Central	199.7	189	119	54.34	17.85		72.19
Borno	North East	144.7	146.8	0	61.71	8.18		69.89
Cross River	South South	1,040	1100	147.1	36.31	22.60		58.91
Delta	South South	390.3	395.5	279. 8	219.28	64.68		283.96
Ebonyi	South East	188.4	178.4	131.8	44.63	7.46		52.08
Edo	South South	183.74	179.2	128.8	64.68	29.48		94.16
Ekiti	South West	129.9	124.5	91.1	41.29	8.55		49.83
Enugu	South East	109.2	169.56	146.4	51.98	31.07		83.05
Gombe	North East	122.4	130.83	107.4	41.02	6.80		47.82
Imo	South East	250.51	197.6	108.3	56.09	16.10		72.18
Jigawa	North West	160.14	152.92	124	58.86	12.93		71.78

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	Location		au of Statistics (NBS)	Health care facilities from GRID3				Laboratories from GRID3				Pharmaceutical facilities from GRID3
	State	Geo political zone	Total revenue available in 2018 (bn)	Primary	Secondary	Tertiary	Total	Primary	Secondary	Tertiary	Total	Total facilities
Abia	South East		70.16	936	138	6	1080	4	2		6	76
Adamawa	North East		55.72	1672	20	4	1696				0	
Akwa Ibom	South South		226.58	547	10	3	560				0	
Anambra	South East		74.56	979	151	17	1147	5	1		6	89
Bauchi	North East		63.71	1246	23	3	1272				0	
Bayelsa	South South		166.74	264	3	2	269	1			1	2
Benue	North Central		66.66	1791	52	10	1853				0	
Borno	North East		69.80	736	8	15	759				0	
Cross River	South South		54.51	1245	26	3	1274	5			5	91
Delta	South South		272.07	531	3		534	1			1	
Ebonyi	South East		51.10	927	59	11	997	21	8		29	135
Edo	South South		97.60	453	22	5	480				0	5
Ekiti	South West		45.79	461	48	3	512	2	1		3	15
Enugu	South East		75.25	909	99	17	1025	13	4		17	131
Gombe	North East		51.15	722	34	5	761	1			1	9
Imo	South East		69.07	879	108	10	997	10	1		11	73
Jigawa	North West		69.57	648	2	6	656				0	

Available Dataset for DSN FDP

COVID 19 Messages and Sources vs1_May_11 .XLSX

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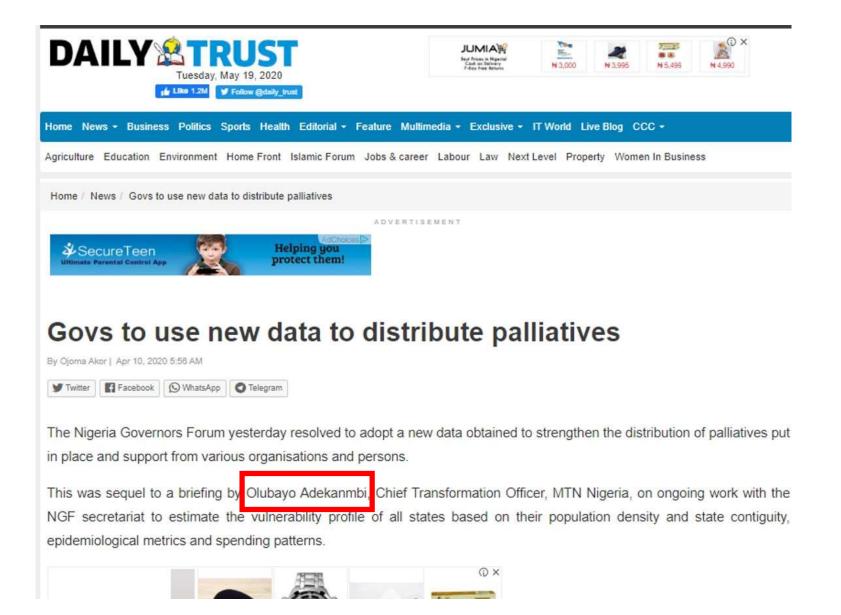|	Message Source	Message Content
1	**Message Source**	**Message Content**
2	Whatsapp	PREVENTION OF CONTACTING COVID-19: 1) Wash your hands regularly with clean water and any soap for at least 20 seconds. *Soap creates lather that penetrates the lipid membrane of the virus thereby weakening the virulence of the virus (its ability to infect host). *Do not use strong detergents to wash your hands to avoid causing you contact allergies (contact dermatitis).
3	Whatsapp	Massive Recruitment In Akwa Ibom State!! Would you like to partake in the ongoing Health Sensitisation Programs in All the 31 Local Govt Area in Akwa Ibom State? If yes, Text name, age, qualification, and mobile number to 08181779560 REQUIREMENTS: Applicants must be between 24-39 years of age with good communication skills Qualification: SSC, NCE, OND, HND and BSc in any field. N/B Successful candidates will undergo intensive Training to enable them carry out their task You can spread in your various groups so that people can benefit. More than 6000 persons are needed to carry out this Campaign, so let's help people get JOBS.
4	Twitter	Avoid shaking of hands, wash your hands with liquid soap and running water or use acholic sanitizer
5	Twitter	Avoid shaking of hands, wash your hands with liquid soap and running water or use acholic sanitizer
6	Others	The tobacco industry is creating controversy & confusion about the risk of nicotine & tobacco product use and #COVID19. FACT: Health experts have warned that smokers with COVID-19 likely suffer more serious conditions that could lead to premature death
7	SMS	Take Responsibility! Prevent coronavirus by cleaning all surfaces frequently. High-contact surfaces include door handles, stair rails and tables.

High national visibility

Working in the forefront of the Nigeria COVID19 response using Advanced Big Data and AI to flatten the curve

The governors also resolved to adopt a new data on vulnerability profile of all states to strengthen the distribution of palliatives put in place and support from various organisations and persons.

This, according to the communiqué, followed an update from Olubayo Adekanmbi, Chief Transformation Officer, MTNNigeria, on ongoing work with the NGF Secretariat to estimate the vulnerability profile of all states.

"The vulnerability profile of all States based on their population age risk, international travel profile, population density and state contiguity, epidemiological metrics and spending patterns," it stated.

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Corps.

"Operators will be resident in the ECCs to process distress calls and contact relevant ERAs.

"Finally, following an update from Olubayo Adekanmbi, Chief Transformation Officer, MTN Nigeria on ongoing work with the NGF Secretariat to estimate the vulnerability profile of all states based on their populations, age risk, international travel profile, population density and state contiguity, epidemiological metrics and spending patterns, Governors resolved to adopt the new data to strengthen the distribution of palliatives put in place and support from various organisations and persons."

Both have reiterated the importance of cancelling all deductions and deferring or restructuring all commercial debt service payments on the Federal Government and Central Bank of Nigeria (CBN)-owned debts.

The agreement with MTN Nigeria was reached Sunday at the meeting held to deliberate on the COVID-19 pandemic in the country.

The approval was given by the governors after the Forum received a presentation from Mazen Mroue, chief operating officer and Olubayo Adekanmbi, chief transformation officer, MTN Nigeria, on the ongoing collaboration with the NGF Secretariat to profile States vulnerability to the spread of the coronavirus based on parameters such as population age and density, travel history, location, income level.

In a communique signed by Governor Kayode Fayemi, chairman, Nigeria Governors' Forum, members also emphasized the necessity for stronger collaboration with States because they are best positioned to administer palliatives to mitigate the impact of the crisis, including the distribution of food and essential materials to households to help them cope with the expected loss of income and livelihoods.

Thank You

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