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Medallion has built technologically advanced and secure interconnect switching centers that enables the exchange of telecom traffic amongst these different operators. Medallion's platform can handle varied traffic types



including voice, data (SMS, Fax) and video. Medallion's infrastructure is robust and protocol independent as it enables all classes of operators to interconnect seamlessly. We handle both TDM and IP based telecom operators as well as interface with major internet exchange points to ensure that local content

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Adoption of 5G Network will Transform the Nation's Economy

January 2021

ICT WATCH

Why data warehousing should be domesticated -ATCON President
Inlaks have become dominant IT firm in Africa -MD, Inlaks



It's futile to think anyone can stop cybercrime

- CTO, Digital Encode

COO, Digital Encode

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- Datacenter
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About Digital Encode

Digital Encode is a leading consulting and integration firm founded in 2003 that specializes in the design, management, and security of business-critical networks, telecommunications environments and other Information Technology (IT) infrastructures. Recognized in the industry for its vendor independent perspective, the firm's expertise lies in solving multifaceted, complex enterprise network security and audit problems. At Digital Encode, technology serves two purposes: to save money and solve a problem.

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Digital Encode has an effective and successful methodology for achieving compliance to ISO 27001(IMS), ISO 20000 (ITIL), ISO 22301 (BCM), ISO 9001 (QMS) and several other international compliance standards such as COBIT and PCI DSS compliance. Digital Encode's unique methodology is rooted in the concept that a company should run its IT organization as a business. Throughout the well defined process,

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An e-SIM is an electronic, or the e-SIM was only enabled later embedded, SIM. Instead of a down the line through an iOS physical card, SIM technology is built right into a customer's phone. It's a small chip that's used to As technology advances, e-SIMs authenticate a customer's identity with his carrier. Already New SIM support.

smartphones, smart devices, and the trend toward anywhere PCs so there's no physical card involved. A tiny chip is installed expect to see many more of the directly in the device system supported with embedded next few years. software.

For this reason, the software can that slowly but surely, it looks like only be activated remotely by a cellular network carrier, like telcos. Subscriber data, which is programmed into an e-SIM during the registration process, can be SIMs and a customer's phone reprogrammed to another supports them, then that may be network provider later. This means all a customer needs to start using roaming on a local network the new technology today. To help outside the country might no longer be necessary because switching networks will be easier.

With an e-SIM, a subscriber's away altogether. phone has a few new settings him to switch between lines and carriers and manage accounts. The e-SIM technology, and an app for technology is spreading faster than

available from the Google Play Store. Then, the iPhone Speaking on the benefits of the offered both a secondary, though

software update.

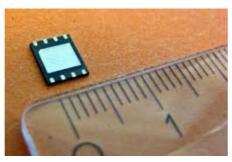
will likely find a home in a new generation of LTE-connected phones like the Pixel 4, iPhone 11 computers. Since the always-Pro, and Motorola Razr boast of e-connected computers first emerged in 2018, the push to provide connectivity anywhere e-SIMs are embedded in has kicked into overdrive. Given connectivity, a customer should LTE-connected computers in the

> Industry experts have observed e-SIMs will take over because they provide a new level of convenience and accessibility for everyone. As long as a carrier supports the ebridge the gap, some phones with e-SIMs still have traditional SIM card slots, but it's a good bet that eventually, those trays could go

devoted to his SIM card that allow Whether a customer is travelling, switching carriers, or upgrading his phone, an e-SIM sounds much Google Pixel 2, for instance, was easier to manage than any of the among the first phones to support alternatives. Fortunately,

managing eSIM is consumers can keep up, and soon it'll be everywhere.

XS came out, and it technology during the announcement of the physical SIM card commencement of e-SIM trial by and an eSIM as a MTN Nigeria, the company's Chief Transformation Officer, Bayo Adekanmbi, noted that the e-SIM is eco-friendly. According to him, "previous SIM cards were generally made with some plastic which was of no use. Ideally, what makes the SIM card work is the chip and not the plastic. Customers embracing the eSIM would be reducing the use of plastic and thereby reducing the user's carbon footprint, which is good for the environment."



"Travelers, tourists or consumers relocating to other countries can easily switch operators from country to country without the need of getting a new device, another SIM card, or roaming their lines. Local customers also have the advantage of switching from one mobile carrier to another for reasons like a better deal or better network coverage in an area. This means less time speaking with carriers, and ordering and waiting for a new SIM; all of which can be done from your phone settings via the e-SIM software," he said.

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Why Telecoms Pay about 39 Different Levies and Fees in Nigeria

-Immediate Past President of ATCON

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Nigcomsat has contributed to the broadband penetration, to drive digital transformation'

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Publisher's note

The year 2020 came with all its challenges across the whole world. The high, the mighty, the underdeveloped and the developed country had their own shares of the challenges. Added to these was the misconception about 5G. Let me give you an insight into the common myth of 5G technology.

As 5G rolls into new markets - and the corresponding marketing megaphones get louder – the notion that 5G means faster smartphones may become the dominant misconception. It's more than that. The reality is that 5G will fundamentally transform networks and create opportunities for innovation across all industries. The chief information officers and business leaders need to take this seriously.

While 5G will be a major catalyst for the future of IoT, that doesn't mean you can't already get started with the IoT projects because not all the IoT use cases require the high processing capabilities and low latencies that 5G provides.

As the minimalist acronym suggests, 5G is part of a wireless lineage: the fifth generation of mobile networking technology, which follows the fourth, which followed the third... and so on. If you count it,

Graphic Design Sherif Ajalaruru TARENCE GLOBAL CONCEPT

Photo Editor Gbenga Ajewole

Layout &

Online Editor Samuel Olaegbe

you will see the pattern.

That simplicity might suggest that

the next generation will replace the

previous, but that's not really going

to happen anytime soon with 5G.

Part of that is because 5G rollouts will

take time and in all likelihood

connects some speed bumps route

to maturity. Until then, most people

Another acronym – the "LTE" in 4G

LTE – speaks to this: it stands for long-

term evolution. The folks building the

mobile networks knew well enough

that getting to 5G was not going to be

a quick job. It's also good news in

terms of protecting existing IT

investments from rapid

There is not some magical moment

coming where 5G network coverage

will become universal and uniform.

5G experience will vary based on a

variety of factors, location

We have to remember that 5G is still

a radio-based mechanism, based

upon millimetre waves that have

difficulty travelling long distances

and fail to penetrate most building

structures, to realize the capabilities

of 5G successfully, not only coverage

but depth of coverage is key.

prominently among them.

obsolescence.

will continue living in a 4G world.

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FAREWELL TO ONE OF OUR CONTRIBUTING EDITORS, MRS. FLORENCE MORIYIKE ADEWUSI (1972 - 2019)



























Nigeria's telecom industry breaks new ground with e-SIMs

Nigeria's telecom industry has broken new ground with the approval of e-SIM trial for two mobile network operators. The Nigerian Communications Commission [NCC] has launched the country into another phase of the telecoms revolution leveraging the latest technology.

This technology is expected to be the game-changer for telecoms consumers in the country.

In its proactive regulatory approach, the Nigerian Communications Commission (NCC), recently granted approval for two mobile network operators (MNOs), MTN Nigeria and 9Mobile, to carry out a trial on the workability of embedded

(e-SIM) Service in Nigeria. This came as another bold step towards preparing the country for the adoption of the newest technologies such as the 5G, Internet of Things (IoT), Big Data, among others.

With several innovations such as the eSIMs being pushed by the telecoms regulator, the country's telecommunications has been one of the most active sectors and arguably the most vibrant of the country's economy. Aside from the rising figures of subscriptions for voice and data, the economic impacts of the sector have been rising steadily.

however, the trial for MTN and 9mobile, which is approved to run

testing 5,000 e-SIMs by the two networks, subject to compliance with a number of regulatory convenience, flexibility and conditions.

These conditions include full compliance by the MNOs with the Registration of Telecoms Subscribers Regulations 2011; the Regulations and Business Rules Subscriber Identification Modules 2015; Guidelines on SIM



mobile

Replacement 2017; and non- approach to ensure Nigeria's degradation of the Quality of Service (QoS) being experienced by users of e-SIMs.

Speaking in a statement issued recently by the Commission, the Executive Vice Chairman of NCC, Prof. Umar Garba Danbatta, said the primary objective of the e-SIM trial is to assess the technical performance of the e-SIM on telecoms service providers' network towards eventual rollout, if satisfactory.

for a period of one year, will involve An e-SIM is a small chip that is embedded on a mobile phone or smart devices. It is designed for simplicity. The e-SIM makes it easier for subscribers to choose a pre-paid plan provider and switch between network operators. The information on the e-SIM is rewritable by operators and the Mobile Number Portability identification information can be updated over time.

> The EVC said that the e-SIMs is a technology that will eliminate the need for physical SIM card slots on mobile devices in the near future, adding that the trial is in line with the Commission's forwardlooking regulatory

telecoms ecosystem is in tandem with global best practices.

A SIM, which stands for "subscriber identity module," basically contains the information that authenticates your identity to a carrier. In other words, the SIM card is what tells a carrier that a customer is who he or she is — and without it, carriers wouldn't know that customers are subscribed to their network, and thus wouldn't let them use their cell towers.





week? The answer is no. When you are affecting the industry. dig into the project, you will I expect the spending agencies to observe that much money has answer is no. Is it difficult to do? register our people and create a database of address systems for them to locate their activities in the country.

Are tech hubs set up by But I believe that if government industry?

to say what motivated the hubs, and the things that are happening in the industry. We it is very difficult to say how they who will benefits from that

change their methodology and in gone down the conduit pipe of the doing that, they should work corruption process. Do we need through the existing companies foreigners to do it? The answer is and the institution. They will get no. Is it a rocket science? The more results that way when they set up all these hubs. Out of the The answer is no. The problem we hubs, maybe in a year, we are able have is that we cannot easily to get one or two projects. These projects will survive with government support, otherwise, after one or two years the projects fizzle out.

government agencies helping the reviews its strategy and work through existing companies that have sustained and maintained That's a big question. I don't want operations for a number of years, and work through the institutions, establishment of some of the then, government could say we are providing sponsorship for the company. Government can lists have been talking about different the area it wants to focus and train hubs for so many years now. How I a certain number of the youths, wish the government would be guide them to deliver. That way serious to set up within ourselves you have already tie a project to an audit of the money spent? Let's the value of money you are measure them with the output so spending and the Nigerian youths

project.

But what we have is a contractor who sets up the hubs and buys equipment. Most of the hubs in Yaba are not working. But if we review the strategy and get the Nigerian youths from university, attach them to a company, a project, then, development will be easier. But I must say again, we must discourage foreigners from developing things for us. We must do things for ourselves. That's the only way to go.

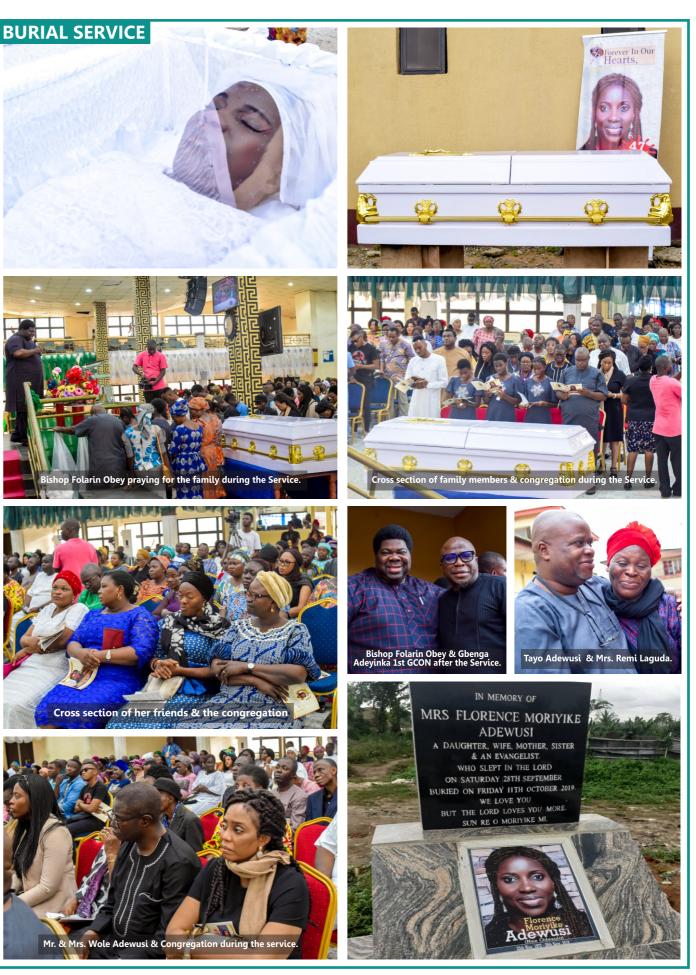
Does your industry have a rapport with the present government?

There is no human being or agency that is thinking about development in Nigeria. It is what is in it for them and that is why we are where we are today. It has been like that for a long while. The professional does not have a say in any agency. They can speak their grammar. They can do their recommendation. They can write their report. But if the agency refuses to listen, what can the professionals do? If you don't take time, those in government will call you noise maker.

They have the voice. They have the power. If I am to go to Abuja to make noise, how long will I survive? I am using my hard earned small resources to have a space in the Nigerian economy. So the power is in the hands of the government .The knife is in their hands. The yam is in their hands.

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TOP 20 CEO OF THE DECADE - EXCLUSIVE

"We must Discourage Foreigners from Developing our System"

-Olorogun James Emadoye, MD/CEO, BSSL Technologies

In this exclusive interview with one of the TOP 20 CEO's this decade, Olorogun James Emadoye, MD/CEO, BSSL Technologies shared his thoughts on ways to improve the ecosystem and move the industry to the desired height. Excerpts.

How is the software industry responding to the Covid-19 outbreak?

We are lucky that Nigeria has automated its financial and related industry. If not for that fact, the cashless adoption would not have gone substantially well. We would have drastically suffered the effects of Covid-19. The way the industry has raised to the challenge of Covid 19 seemed to have helped us to rise above the pandemic. It is left for our leaders to learn from what has happened because nobody knew that Covid-19 could happen, even the world powers could not predict the pandemic. We are only powerful if we know our enemies; Covid-19 is an enemy we don't know.

In Nigeria, we are lucky that there are so many things helping us. Whether we like it or not, we are not carrying out sufficient Covid 19 tests to ascertain the number of infected persons. If the story is not about people who need to be tested, it is about those who need to be isolated. These stories are Covid-19? unpalatable. But we are generally lucky that our environment has The opportunities are there must be worked on. helped us to reduce the real effect of Covid 19 but we need to think about this.



together the traditional and vaccines to solve the pandemic but transfer N1 million. But in the USA, it seems we are still looking to the I cannot transfer \$10,000. To do Western world for supports, for in Oxford.

Are ISPON members seizing the opportunities embedded in the 2020, how possible is it to use

without any doubt. Between March and May, virtually all the Our NIN system is still a problem. companies that have done a bit of today and get your number next

cloud software that could cope within that period. Some of our clients don't have problems because they've provided for that uncertainty.

It is said that software will change the way we work. We have a huge youthful population within the ages of 15 and 35. For them, it is the age to learn and emerge. It is for our government to look for everything that we need. If we need to build a bridge and your own people can't build the bridge, you don't need the bridge. The same applies to software. The more you challenge us the more output we will get.

Our government ought to have put Nigeria is far more developed in terms of fintech than most other medical doctors to come up with countries. With my phone, I can that in the USA, you will go through vaccines that are being developed stress. Our problem is in security, profiling and identification. These are problems around technology that the country must solve. In people's names to locate their addresses? Our address system

offices were closed. It is those Can you easily register for NIN



been investing in infrastructural mobility, the WIFI and other expansion.

Would you consider co-location Due to coverage, we apply some of service as an option?

Co-locating is the way to go. Even to co-locate, you must take the active element up to the towers in order to get those active elements. You will need to import them with We need the federal government The business environment is not encouraging for smaller players to expand now, if you don't have access to FX. You know, our watchword is quality. We have subscribed to the ISO 9001, which process. We have also subscribed to the ISO 2001, which is the IT service management standards. To protecting the quality of our service has been our watchword many other factors that come into play. We are also protecting the quality of our service.

What are the elements involved with regards to quality of service?

There are certain fundamental things that bring quality of service. You must have ubiquitous coverage. You must be able to manage the density - how many people are getting on to the base station at a time and you must ensure that you are able to watch congestion for each base station and ensure that it's still within the threshold of the quality design. These are the things that we watch. From the user's perspective, some of the things we sell are usually indoors and limited make profit you must provide process.

things.

these things where there are needs to educate the users. Operators like us sell access. That is when you have sold access through your customer's premises equipment. I have seen some very big homes - maybe three floors -FX and this has been the challenge. they will buy one customer premises equipment (CPE) to ease off on telecom equipment. network. The tenant expects it to be accessed in every room. That's not the quality of service for the operator. It happens to be the quality that WIFI can distribute within our work of service. Sometimes such customers need a is the quality management bit of education to be able to do redistribution. They may need to reposition the WIFI access point to a certain spot. We watch the quality of service that we provide and pay attention to customers' and to be able to do this, there are complaints to improve our services.

If the network penetration has increased, don't you expect a vertical drop in the cost?

We should take it from the macro level. It's not just about coverage. The coverage is at a cost and the cost has a huge FX component. The cost of broadband has come down between January and now. If you use a standard index, not just the Naira because the Naira itself is pitched against international currency. There is a drop value of up to 40 – 50% and the telcos have not increased their prices. All the components are dollarised. All businesses are there to make profit, not for consumption, but to

better services. Otherwise, the customers will complain about the cost of service because companies will not have fund to replace the equipment.

They must cover replacement cost. They need to cover their operations expenses also. Most of these things that are in the environment were imported. Even if the price comes down, the cost of submarine cable in the component of providing service is at the maximum of 15%. Even if the component drops, the equipment replacement cost has not dropped. The cost of broadband is low, but if you look at it from the providers' point of view you will see that truly the value they got last year is not the same value this year. Another thing that cut down costs is competition. Different players want to outdo each other. Once the issue of quality is settled with time the price will come down. But there are certain levels we must not go below or else we will be injuring ourselves.

What is new with your CRM?

It's about holding the customers as kings. We have a process that we have created to make customers happy. It is embedded in our vision and mission. From the lowest rank staff to the top, we are all working for the good of the customers. When I talk about ISO 2001, there are processes that are in alignments to check effective customer service. We have a lot of data that helps us to serve customers better. We also educate our staff on best practices. It's more like it's in our fabric and





































Communiqué issued at the end of the 2020 Nigeria ICT Impact CEO Forum (NIICF)

The 2020 edition of the Nigeria ICT Impact CEO Forum (NIICF) themed '5G: The Future is Here' was held at the Oriental Hotel, Lekki, on November 27, 2020.

The forum had representations major participant in the growing . from the regulators including the global digital economy. Nigerian Communications Commission (NCC); National Information Technology Development Agency (NITDA), Nigeria Communication Satellite Company (NIGCOMSAT), and Galaxy Backbone. Also in attendance were the telcos, OTT players, CEO of ICT companies, and other industry stakeholders.

In his welcome remarks at the forum, the convener and Editor-in-Chief of ICT Watch Magazine, Mr. Tavo Adewusi, highlighted the global impact of 5G technology, with a call on the experts to use the forum to discuss the expected impacts of the technology on Nigeria.

A keynote by the Executive Vice Chairman of the NCC, Prof. Umar Danbatta, delved into the core of the 5G agenda for Nigeria. Four other lead papers were presented. The focus was on the impacts, benefits, and strategies as the country embark upon the 5G journey.

At the forum, the following were the consensus:

That the successful and timely deployment of 5G is crucial to the country's economy, as it is also in line with the strategy of the Federal Government for the acceleration of the National Digital Economy for a Digital Nigeria, the positioning of Nigeria as an early adopter of the technology and a

- That securing the spectrum for 5G is an antecedent for any operator to invest in 5G infrastructure. It is therefore imperative for the spectrum allocation and assignment process to be concluded as early as possible.
- That the Federal Government would provide an enabling environment for the deployment of 5G while the MNOs would determine their deployment strategies subject to alignment to the approved policies and other regulatory instruments in force.
- That infrastructure sharing is key to the success of 5G rollout as no operator can go it alone. Besides, no company has enough resources to singlehandedly deploy 5G.
- That the current challenge of infrastructure must be addressed to realise the full potentials of 5G.
- That the country needs more data centres, more metro fibres, and high capacity wireless access network, which are essential for 5G success.

- That 5G can lead to growth in healthcare, transportation, retail, agriculture, manufacturing, logistics among others.
- That the increased bandwidth of 5G will invariably help financial services (among other industries) to further step up their game.
- That 5G will facilitate several emerging technologies, generate innovative use cases, spur significant socioeconomic growth, and create jobs.
- That 5G's full socio-economic impact is dependent on access to a variety of spectrum resources, including millimetre-wave bands between 24 GHz and 86 GHz.
- That the regulators, civil society organisations, development partners, private businesses, and other stakeholders must collaborate in order to contribute to Nigeria's digital transformation journey.

At the end of the forum, deserving ICT stakeholders were presented with the prestigious Africa Digital Award for their outstanding contributions to the growth of the industry.



With Covid-19, our macro-economic system has gone upside down

-Engr. Abiodun Omoniyi, MD/CEO, VDT

Can you share your company's journey with respect to 4G Long **Term Evolution?**

It's been a very interesting journey. It's very expensive. We have been in existence for about 20 years and the quest to go into the venture has taken a better part of us. The last year have been an interesting journey. We got a load of learning in operations, marketing and sales, but things are picking up. We are getting hands-on on how to do it and we are ready for more challenges.

What is the influence of Covid-19 on your network expansion?

The year has been very challenging. The challenge of Covid-19 is high on our business because our cost of doing business has increased. It wasn't that the revenue was very huge. Although it called for different ways of doing things. There is no way to maintain a down site without our engineers visiting the site and it is not cheap to traverse state capitals or a cities. Those are the things that have brought about high cost. However, we are now at the expansion stage. This stage needs a lot of capital. We know with the Covid-19, our macro-economic system has gone upside down. Inflation has gone

The exchange rates and access to



fund are major challenges. All body. We rely on our local

these have made it quite transactions. Telecom does not challenging. Our plans for 2020 is qualified for FX for now and that to do a lot of things. But these have has been quite challenging. We not materialized. Despite the couldn't expand but we have opportunities, the challenges are brought more sales. We have also still prevalent. We are entirely an tried to manage our network. We indigenous company. We don't get have continued to deploy quality funding from any foreign donor services to our clients. We've not





NigComSat Hosts Nigeria Edition of Actinspace Innovation Competition

The Nigeria Communications Satellite (NIGCOMSAT) will host the Nigeria edition of Actinspace, an international competition for students of tertiary institutions, IT startups and entrepreneurs to create new applications using technologies, satellite data and/or licenses.



Manager, Corporate Affairs of NIGCOMSAT, Adamu Idris said the competition will be co-hosted with the Federal Ministry of Communications and Digital Economy, African Aeronautics & Space Organization (AASO), CNES (the National Centre for Space Studies-France), European Space Agency (ESA), and Airbus.

"Applicants from the ages of 18 to 35 years are expected to come up with solutions that are spacerelated for submission for the mentors over a two-day period. contest. The contest categories are new space player, everyday life, business and space for earth and humans," he said.

A statement signed by the General The chairperson for the local organizing committee for Actinspace Nigeria, Mrs Alma Okpalefe, said participants are expected to devise solutions that could help to run their businesses, support humanitarian causes and develop applications based on space technology.

> She stated that the second phase of the competition will be the hackathon "where selected applicants will present their business ideas to judges and

"We are expecting to see Nigeria win at the global technology innovation challenge. To achieve that however, we must showcase the best of what we have to offer,"

The finalists and runners up will emerge at the end of the hackathon while the first place winner will represent the country in Paris in 2021.

"Entries are accepted only through the NIGCOMSAT official website www.nigcomsat.gov.ng and will end on October 8, 2020". Idris said.

Adoption of 5G Network will Transform the Nation's Economy

The adoption of the fifth generation [5G] technology will help to transform the nation's economy and give birth to smart city, smart transportation, efficiency in medicine as well as a lot of automation in respect of appliances and devices with respect to Internet of Things (IoT).

CPN) after its 2020 virtual IT assembly themed Adoption Of 5G in Nigeria: The Technological and Regulatory Challenges held recently.

In its recommendations, the CPN urged the federal government to ensure that the cost of 5G compatible devices is affordable to "Nigerian so that the citizens can benefit from the new technology".

Signed by its president, Prof Charles Uwadia and Registrar, Allwell Achumba, the CPN stated in the communiqué that the deployment of 5G is capable of fast tracking the economic growth and migrating the country into a digital economy.

"The deployment of 5G in Nigeria has "numerous advantages which include faster internet connection, smoother user experience and huge deployment of IT to drive growth and development of industries.

"CPN is now recommending the adoption of 5G network to Government at all levels because Nigeria will derive huge socio-

communique issued by the commercial deployment of the Computer Professionals fifth generation (5G) networks. addressing the power challenges (Registration Council of Nigeria- The new networks will come with in the country and to declare IT and great potentials that will boost the entire spectrum of Nigeria's socio economic ecosystem.



"The country will also benefit immensely from the adoption of the network in terms of faster speed, high latency and high capacity that will transform consumer and business experiences because the difference between all other existing generations of technologies such as 2G, 3G and 4G lies in speed and data capacity".

The body added that the provision of good and adequate supply of power will enable Nigerians to enjoy the benefits of 5G network and derive huge socio-economic benefits from its commercial deployment.

This was disclosed in a economic benefits from It therefore urged the federal government to intensify efforts in telecommunications as a critical national infrastructure to facilitate the success of the national broadband strategy.

> "Governments at all levels should also intensify efforts to embrace IT with its attendant potentials of facilitating governance and eradicating corruption in the country", it stated.

The Council emphasized that the complete adoption of IT and migration of government operations from the manual mode to digital platform will make the country to conform to the benchmark of government operations in the 21st century

The annual CPN assembly is a yearly gathering of IT practitioners in Nigeria and the diaspora with the objective of discussing and strategizing on emergent issues in Information Technology in order to come out with recommendations and decisions that will impact positively on the industry and the nation. The Keynote was delivered by Engr. Deus Osuji, General Manager, Network Services at MTN Nigeria.







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MTN Nigeria Introduced Visitor SIM for Travellers to make Connections Much Easier

MTN Nigeria has introduced Visitor SIM designed for guests who are travelling into the country in order to make connections easier for them.

Visitor SIMs will ensure that before

with an appealing package that Chief Sales and Distribution can be extended up to 30 days via includes local and international call and data bundles. This package

will enable people visiting from other countries to stav connected with their friends. family and business associates on MTN's super-fast network.

According to a statement from the company and signed by the acting Public Relations Manager, Lakinbofa Goodluck, MTN

Visitor SIMs are easy for inbound activate and use, in addition to than any roaming tariff.

/isitors

SIM

operator, the service is poised to deliver convenience and the bestin-class customer experience in line with MTN's brand promise.

setting foot outside the airport,

international visitors to acquire, people visiting Nigeria can plug in, reconnect - to loved ones, which they offer far better value associates, tools and information, and begin sharing their MTN Nigeria is part of the MTN remarkable experiences, with no Not available from any other concern about roaming charges."

> MTN Visitor SIMs are available in the arrival halls of international East. airports and other ports of entry.

The Visitor SIM comes pre-loaded According to Adekunle Adebiyi, They are valid for 14 days, which Officer, MTN Nigeria, "The new MTN's self-service menus or USSD.

> MTN Nigeria is one of Africa's largest providers communications services, connecting over 71 million people in communities across the country with each other and the world. Guided by a vision to lead the delivery of a bold new digital world, MTN Nigeria's leadership position in

coverage, capacity and innovation has remained constant, since its launch in 2001.

Group - a leading emerging market operator, connecting more than 250 million subscribers in 21 countries in Africa and the Middle



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TOP 20 CEO OF THE DECADE - EXCLUSIVE

Why data warehousing should be domesticated...ATCON President, Engineer Ikechukwu Nnamani

The President of the Association of Telecommunication Companies of Nigeria [ATCON] Engineer Ike Nnamani in this exclusive interview explained the implications of hosting local data locally and why the data centres in Nigeria are underutilized. Excerpts....

should be domesticated?

We must look at it from two perspectives. It is good where there is an official directory for something that is good for the should we monopolize your data? If you understand that question, federal government wants to domesticate data. Domestication of data has a lot of value to the country. It is in the area of cybersecurity, securing the data and ensuring the third-party countries, especially, if it's national data that is related to the citizens' and government's affairs. You can't accurately guarantee that when the data is hosted in a foreign land and the hosting in the host country, at least you are guaranteed that things will be better for the country. If the data is not close enough, and you have to 22. When there was no go far to retrieve it, it affects the hosting company.

Another factor is that hosting data latency. If the quality of your including data centre operators.

Do you think data warehousing connectivity is not strong, then But that is different from hosting you run the risk of getting an local data outside the country. inefficient service. So from the financial standpoint and quality of Why do you think Nigerians host service, there is a value in localizing your data and hosting it locally. The other part is economic The reason people outside the country. The question is why in nature. You pay to access wherever the data is sited. So if the host. This is something that must data is hosted in Nigeria, it means be addressed by the federal then you will understand why the other countries will pay Nigeria to government in access it. These are some of the r to bridge the reasons why hosting data locally is The more people good. It creates employment. It are hosted leads to a more efficient system. I locally, the lower think it is based on these factors the unit cost that the federal government is for anybody. saying, if some doesn't value or The more appreciate it, then it may be people you mandatory, especially when it h a v e comes to sovereign national data. sharing That is not an option.

company is sited abroad. But if it's For national security issues, it must be hosted locally. That is the key point. So in terms of compliance, it's a catch standard datacenter in Nigeria, cost because you have to pay the there was no available infrastructure to host locally. I don't have any problem with Nigerian companies growing their outside the country affects the businesses and getting big enough quality of the data in terms of to play in the global space

data outside Nigeria?

country is because it is cheaper to







the same infrastructure, the lower and used. All these are happening the unit cost for each person.

of the data centre is higher in developments. If you check the Nigeria?

usage is low. A company like Web4Africa that has a local infrastructure, host locally. I know a lot of companies have their AWS and others but why will when their foreign counterparts population is located. have over 1 million clients and they the infrastructure. So they will charge more to recover the wants to extend connectivity investment over a particular across the country is to have period of time. There must be an content closer to the users. Then enabling environment to encourage the uptake in terms of centre from there you create an the user base because the edge data centre. That is what moment we do that, sharing the drives the main connectivity and same infrastructure, the unit cost runs most connectivity between will come down. The same thing the users and the location of the applies to the bandwidth. The less number of people who are using the bandwidth the higher the cost. Nigeria and that's why we are The higher the number of people trying to expand data centres who are using the bandwidth, the across the country. The services lower the cost.

How does Medallion Data Centre play in this game?

This goes back to data hosting and the fact that if data is not localized you would run into problems. In the current class of service being rolled out to subscribers, it has been said that the communication between the machines will be [NCC], National Information more than communication with Technology Development Agency

because of the Internet of Things [IoT] and the future is here. Nigeria **Can you shed light on why the cost** is not excluded in all these case of Nigeria today in terms of infrastructure, we have about five It is because the volume of the active submarine cables with several others coming in the next few years. Even with the existing ones, the statistics show that some of them are under 20% utilization. platforms hosted and the quality So there is a disconnect between of service they render is not having available capacity at the different from the likes of Google, shores in Lagos where all of them are located with the rest of the Web4Africa have only 20 clients country - where the bigger

> national broadband plan which we can create a regional data infrastructure. What we are trying to do is to build infrastructure for will be affordable to subscribers and it will be a qualitative service.

How does this tie with the digital economy?

The current programme from the Ministry of Digital Economy and Communication as well as the regulators such as Nigeria Communications Commission women in terms of data generated [NITDA] et al, if you partner with

what the private sector is planning to do, I believe it can be achieved. If the current broadband plan that has been implemented this year, then we can achieve things. We live in a data-driven world. There is going to be a demand that will drive the adoption of data. It is just that the infrastructure can catch up with it, but for infrastructure to catch up with it, we need a lot of things to be put in place. Funding is needed. If we don't have the fund, we are not going to achieve it.

This has to be addressed. We must address the issues of multiple taxations that have made it difficult to roll out services. We both invested \$1 million to provide One of the goals that come into the must address the issues about not having the right approval whether the right of way to lay fibre infrastructure or securing existing infrastructure in some part of the country. There is a demand to make it happen if the infrastructures are in place.

What did you do right during the lockdown?

The lockdown gave me the opportunity to spend more time with the family and on the other hand, because we know that lives and families and other businesses are dependent on our business, we have to keep working during the lockdown. We worked through even during the restriction of movement our operation continued during the period. At Medallion, we have processes to handle situations like this, so it was just the case of ensuring that the process works to deliver efficient services to the people.

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was implemented under the auspices of the National Association of Microfinance Banks Unified IT Platform (NAMBUIT) in The COVID-19 necessitated the established the fact that business July 2017.

Over the past decade Inlaks has remained committed to designing and deploying solutions that will deepen financial inclusion. We will continue work towards driving the financial inclusion in Nigeria using technology.

The ICT industry has performed well in spite of the Covid-19 Pandemic, especially in the financial and nonfinancial sectors. What trigger this phenomenon spike and how can this be sustained?

The COVID-19 didn't just disrupt the normal way of life for people all over the world, but has also transformed the way we interact with loved ones, do business, shop, travel, get medical care, and conduct many of the routine transactions of life. These changes have accelerated the adoption of

in Nigeria. This landmark project digital technologies at an alarming scale and speed across the different sectors of the economy.

> isolation and social distancing as the most effective way to slow the spread of the virus until a vaccine is environment. found. As a result, businesses that rely on human-to-human contact to operate are now at risk.

Digitization has stepped in to our expertise and the latest bridge the gaps left by mandated shutdowns and social distancing measures. Without digital tools and technologies, we would have no way to work, shop, and learn. To deal with the crisis and its outcome, some companies that are yet to fully adopt digital needed to quickly adapt their organizations to new operating models and deliver their services to customers and employees at scale.

> be attributed to the fact we now live in a contactless world, brought about by this pandemic. What this means is that the interactions with customers and employees must

occur virtually and businesses will have to find ways to operate remotely, while providing value to their customers. Companies that would usually require physical presence and interaction would have to operate digitally to stay in business. Today's businesses have only two options; to either go digital or die. Digital is the new normal.

While certain industry suffered and has continued to suffer during this Pandemic, the ICT industry continues to thrive. Companies such as Amazon, Netflix, Microsoft and other tech giants continued to thrive amid the pandemic. This has must adopt technology at the core to survive in today's business

This pandemic sparked creativity in doing business and various innovation across all sectors of the economy. It is, therefore, a chance for businesses to rethink how they operate and use this opportunity to transform, while adopting to new realities.

There is no doubt that business leaders will face some fundamental challenges, one of which is the change in consumer behavior and patterns. The only way for businesses to survive in this times would be to analyze their customer demands and refocus their digital efforts to The rapid adoption of digital can reflect changing customer expectations.

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people use their mobile apps to transitioned from being a reseller carry out all forms of the of computer accessories to transaction without the need to visit any bank branch. Social media platforms also became a serving over six Central Banks, 18 dominant force in this past decade, with the launch of Facebook, Instagram, Twitter, Snapchat etc. All these platforms have redefined the way people connect and collaborate and has greatly influenced the way business reach agency banking, fraud and interact with their customers, as well as their target audience. The rise of social media has also greatly impacted the media and news industry, as information are readily available and accessible on the internet.

Other technological advances of the past decade include Artificial intelligence, internet of things and cloud computing, all of which have radically revolutionized our dayto-day lives. Technology is moving at the speed of light, and I am looking forward to seeing what happens in the next decade.

How would you describe the growth of Inlaks in the last decade?

The past decade has indeed been transformational for our business. We have continued to strive to remain the notable ICT and infrastructure solutions provider in the country through our strategic response to the changes in our business environment. It hasn't been a seamless process, but we are glad we decided to turn and find our way back to growth and success.

Within the past decade, Inlaks has

become a leading IT systems integrator in Nigeria and Africa commercial banks and microfinance banks in Nigeria and Africa. We have become the dominant information technology company in the African region, providing core banking, ATMs, management, cybersecurity, cloud, data centre, enterprise risk management and software solutions.

Furthermore, over the recent years, we have gained and maximized competitive advantages by effectively and ethically distinguishing Hyosung ATMs and some Value-Added Services from those of competitors. The ATM business has been the promising products for the company in the last decade having sold and deployed more than 6,000 units to 19 commercial banks and numerous Microfinance Banks. The ATM business creates a long-term value to our business,



Inlaks represents Nautilus Hyosung Inc, a South Korea Original Equipment Manufacturer, as the only authorized partner in West and some other parts of Africa. As at the end of 2012, Inlaks had less than 300 Hyosung ATMs deployed in two Nigeria banks representing 2% market share. However, in 2013, we changed our sales and service strategy for the self-service and ATM line of business by relying on unique business acumen to demonstrate better insight into ATM business issues and industry trends that are relevant to the customers.

and it's progressively becoming the cash cow with possible market saturation in years to come.

Our strategy is to continually boost this product by appropriate investments to monitor the growth and maintain a position of strength in the ATM market in Nigeria. Inlaks also represent Temenos, one of the leading Fintech solution in the Nigerian banking sector. Within this past decade, Inlaks partnered with the Central Bank of Nigeria (CBN) to deploy the Temenos' core and agent banking solution for almost 1000 Microfinance Banks (MFBs)



NCC Counts Gains of MTN Listing in Capital Market

nfluencing the listing of MTN, one of the telecom giants in the country on the stock market has become the yardstick for the Nigerian Communications Commission (NCC).

the NCC to facilitate the listing of MTN Nigeria on the country's stock exchange market has continued to bring economic gains to Nigeria and Nigerians in terms of boosting market capitalisation and yielding dividends to shareholders.

The Executive Vice Chairman (EVC) of the Commission, Prof. Umar Danbatta has pointed at the gains of the achievement.

as a tonic for other telcos such as Airtel to follow the same direction.

As the country's independent telecoms regulatory authority, the NCC, working with the Central Bank of Nigeria (CBN), facilitated country's largest telecommunications operator on the bourse.

"This is in line with its mandate to EVC stated.

The regulatory action was taken by regulatory posture, which served has been created in the history of the telecommunications industry in Nigeria.

> "That important regulatory action enabled Nigerians, consistent with the Nigerian Communications Act (NCA) 2003, to partly, own, the landmark listing of the manage and control MTN. This bold and courageous regulatory action is now transforming lives and boosting the economy," the



Market analysts report that MTN investors have raked in approximately N1 trillion in price appreciation and dividends since April 2020. The listing of MTN was as a result of NCC's effective regulatory action taken during the mobile network operator's fine NCC, Prof. Umar Garba Danbatta. settlement agreement in 2016, which compelled the telco to, among other things, list on the this proactive regulation and Nigerian Stock Exchange (NSE).

The listing was one of the which lead to the listing of MTN on

promote investment, create a level-playing field for all licensees, ensure compliance to existing telecoms laws and facilitate delivery of top-notch quality of service (QoS) to consumers," said the Executive Vice Chairman of

According to Danbatta, through timely intervention by the NCC, outcomes of the NCC's stringent the NSE, a new vista of opportunity said.

Danbatta also stated that the listing has helped to translate into action, an important the objective of the Commission, which is to promote local investment and ownership in the telecom sector.

"With MTN shares available in the capital market, it is expected that Nigerians will buy shares and by purchasing the shares of MTN, they will be financially empowered and be socially transformed," he





Stating that telecom is a capitalintensive industry that requires continuous investment, Danbatta said the listing will enable the telecoms companies to raise networks.

"Also, one of the benefits of listing on the NSE is that telcos have enormous opportunity for raising more capital for network expansion, which will, in turn, bring about improvement in the

quality of service delivery and quality of experience for telecom consumers," he said.

The EVC further stated that "today, the capital market regulator and shareholder bodies have commended the effort of the NCC in making the

through the Commission's regulatory action in facilitating telcos listing."

stock exchange will promote Nigerians," the EVC said.

liquidity amongst operators, enhance their value as well as promote transparency.

"The Commission is committed, through its regulatory policies and



capital market more resilient actions, to creating the right environment to attract both Foreign Direct Investment (FDIs) and local investment into the telecom industry for increased capital for the expansion of their He noted that the listing in the economic prosperity for

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Inlaks have become dominant IT firm in Africa

- MD/CEO, African Operations, Femi Adeoti

One of the ICT firms that have contributed to the development of the industry is Inlaks. Femi Adeoti, MD and CEO of the firm spoke on how the company have metamorphosed from a reseller of computer accessories to a leading IT systems integrator in Nigeria and Africa serving over six Central Banks, 18 commercial banks and microfinance banks. Except.

Let's look at the ICT industry in the last decade. How has it faired?

The world is undoubtedly in a different place today than it was a decade ago, and changes in technology have had an enormous impact on every facet of our lives. We may not have achieved the most remarkable technology feat yet, but there's no doubt that the past decade brought many exciting technological advancements.

The last decade saw a significant advancement in technology including; mobile phone, social media, and cloud. Almost every part of our lives have been deeply transformed by these technologies, as they became so quickly entrenched in our day to day lives; from the way we shop, bank, learn and collaborate.

The advent of mobile technology is one of the biggest moments in IT from the last decade. Even though the original iPhone was released in 2007, smartphone became truly ubiquitous in the 2010s, improving and affecting every areas of our lives. The mobility and flexibility of the mobile phones greatly influenced our day to day activities - from banking, shopping, learning,



gaming, entertainment and collaboration with friends and family.

Beyond the high rise of decade. Uber launched its mobile eCommerce platforms like app in 2011, disrupting the taxi Amazon, Alibaba, Jumia and industry, Airbnb, which also Konga, all types of purchases, from launched in 2008, boomed within travel arrangements to payment of this past decade disrupting the utility bills can be done anywhere hospitality industry. and anytime from the mobile

platform business models Uber, Airbnb, Netflix, etc. Netflix, for instance, was launched in 2007 but only took off fully within the last

phone. This technology facilitated This past decade also saw the rise the birth of new businesses like of mobile banking. Today most



Economy. Having said that, out of the 8 pillars NIGCOMSAT Limited will be very relevant in 3 pillars which are:

- provide government digital Honourable Minister of services through a robust satellite Communications and Digital link in order to drive the digital Economy Dr. Isa Ali Ibrahim economy.
- to provide satellite infrastructure platform to deepen the broadband penetration especially in the rural and underserved areas in Nigeria.
- Development and Promotion; to develop and provide a digital satellite ecosystem that support driven enterprise.

(NIGCOMSAT-1R) doing commercially & is there any update on the possibility of a strategic and project Agency in the Communications & backup satellite capacity?

Thank God, NIGCOMSAT-1R is performing optimally in orbit, the business operations in the satellite is almost 9 years in orbit based on the launch date which was December 2011. In term of commercial viability, I can tell you Can you tell us about the regional that we are competitive enough and the satellite remain a good platform to deliver innovative digital services. Yes, backup satellite is key to the National Broadband Infrastructure Development. Thus, we are working with the Honourable Minister of Communications and Digital Economy Dr. Isa Ali Ibrahim (Pantami) towards acquiring NIGCOMSAT's mission and vision additional satellites and Nigerians will get to know of this soonest.

Recently, with the approval of the innovation" and "to be the leading Hon Min of Communications and satellite communications

communications and Digital Digital Economy, two subsidiaries were created from NIGCOMSAT. Africa. What they are & what are we expected to see from these new companies?

(Pantami) who understands the • Pillar 3: Solid infrastructure pillar: vision and mission of NIGCOMSAT gave approval to create two subsidiary companies (SUBCOs) namely; Satellite Infrastructure Company (SIC) & Satellite Pillar 5: Digital Service Broadband and Broadcasting Company (SBBC) in its bid to achieve its ambition to be the leading satellite communication artificial intelligent and innovation solutions provider in Nigeria and

How is the replacement Satellite established to carry-out commercial businesses on behalf of NIGCOMSAT Limited with implementation partners from private sector and expand its information communications technology.

> offices and their objectives in line with the vision and mission of NIGCOMSAT?

Regional offices are to provide services for the inter-land to inclusion of all Nigerians irrespective of location. Having said that, the regional offices in this country. objectives are to promulgate the which is "to provide seamless connectivity and satellite communication through

solutions provider in Nigeria and

How has NIGCOMSAT fared in this period of Covid-19?

• Pillar 2: Service infrastructure; to Once again, thanks to the COVID 19 pandemic became a major disruption and new reality in our world, we adapted and took in the opportunity that came with the new normal. Some of nonessential operations became flexible and virtual. We also supported our sister agencies with broadband coverage. Obviously, The digital ecosystem has come to stay because people now know that communication is critical during this crisis. And in order to prepare for the future, We had enhance digital tools at our disposal to boost performance and The two subsidiaries are operations to serve our customers

> As the only woman heading an Digital Economy Ministry, you have been nominated as one of the TOP 20 CEO's this decade, how do you react to this rare feat?

Globally, some industries are gender free, one of such industry is Space industry and having been supervised by the Federal Ministry of Communications and Digital Economy, I believe that being the only woman heading an agency under Ministry of promote digital and financial Communications and Digital Economy is a sign that women are participating in scarce skills sectors

On the nomination, I give thanks to the Almighty GOD that I have been found worthy for this excellent recognition of top 20 CEO in this decade, I also thank ICT Watch Magazine.



How much of an impact do you think that the pandemic has had on the

learning games. Excerpts....

EdTech industry?

Titi Adewusi: Honestly, I would say it is the best thing since slice bread. It has been totally fantastic. Before the pandemic, EdTech was a nice to have. something to be considered for the future, something you put on the back burner. Then suddenly COVID happened and EdTech moved from the ignored child to the favourite child.

COVID-19 and the lockdown, has created an enabling environment for technology enables businesses. EdTech is no longer a nice to have, EdTech is now a must. Not only for the education space but also for corporate learning/training space. It was not only schools that transitioned online but various corporate trainings - all leveraging on technology to move online.

Now a lot of players are exploring EdTech solutions and new players are entering the space. Remote learning is here to stay and EdTech is helping to power it.

What do you think are some of the challenges that pertains to the usage of technology in the educational industry in the country or globally?

Titi Adewusi: Well. let me start with our country because our challenges are a bit interesting. Technology and EdTech requires three key basic



factors: first is that you have a device (smartphone, tablet, computers), the second is that you have power (electricity) and the third is the that you have data/connectivity).

In a lot of countries, the major challenge is just the device. Do all the kids have devices? But in Nigeria those three factors are challenges. Data is currently not affordable to most people. I look at the Indian EdTech market, which is one of the biggest because data is cheap and affordable. You find it out even when using Whatsapp, Zoom are people are so conscious of data cost. Any app that uses a lot of data doesn't get significant users. There are a lot more that? people on Facebook because of their "offline" features. During school closures due to the lockdown, a lot of schools were using WhatsApp voice for remote learning due to data cost.

Another major challenge is power. I had my staff working remotely and sometimes they tell me they haven't

waiting for them to put on the gen so they can charge their laptop. Smart devices use electricity either direct or through batteries and those batteries need electricity.

It is the same thing with my children doing online classes and then in the middle the teacher is off because they have taken light in her place. So, light is the major challenge. If we are to leverage on EdTech on a large scale in Nigeria, we will need to address the power issue.

Smart phone penetration in Nigeria is estimated at 13% while personal computers is 4%. Most people don't have access to a smart device needed for EdTech. We need affordable smartphone/smart devices to help people get online.

If we can solve these three issues, we will see a major explosion of technology in Nigeria

Remote learning is creating a lot of excitement, but it has a greater disadvantage. The less privileged kids who can't access remote learning, what should we do about

Titi Adewusi: Those are the people that are most impacted. I must commend the government for some of the things they have been doing. They have used radio, tv and it's not just in Nigeria all over the world. I do not know any country that have all the children using devices or doing had light for a few hours, they're 100% online learning. A lot of them





have children in various communities that do not have devices or access to the internet.

The government has used radios, TV, WhatsApp group, little clusters, providing worksheets, anything they can do depending on the peculiarities of the area some.

must see how to create clusters whereby people can have access to devices, we can provide solar panels for them so that they can have access to light to charge their device and local area network because it does not have to be data, you can use allow raspberry, PI, create a local

In the short to medium term, we must see how to create clusters whereby people can have access to devices, we can provide solar panels for them so that they can have access to light to charge their device and local area network because it does not have to be data, you can use raspberry, PI, create a local network number 20, 50, 100 devices can connect to.

Govt needs to give internet Service Providers the needed incentive to drive this not just in the urban areas but especially in the rural areas.

Access to fast, affordable broadband is mission critical. There are a lot of things we can do through widespread affordable broadband. It is so critical In the short to medium term, we to drive remote/online learning as well as support EdTech. With fast affordable broadband, people can access world class education that will improve productivity of the labour force and drive economic growth. It will also create new businesses and

existing ones to scale and grow.

We need to have a vision and a detailed plan to achieve this. The government working with various individuals and corporates can help make this become a reality faster.

What is next for your EdTech start-

Titi Adewusi: It has been an exciting time for our business post lockdown. We have seen more

corporate partnership to help drive providing our educational content to children both home and abroad. Also, we recently partnered with Google on its Read Along App which allows us tell African stories to children all over the world.

With more school embracing online learning and blended learning, we have seen an increase in demand for online/digital education content which is the space where 9ijakids

Our focus is how to expand and take our content to other African countries and indeed the world. We are increasing exploring various partnerships with other Edtech organisations and Corporates to continue to deliver world class educational content that will equip the African child with 21st Century skills needed to be successful leaders, entrepreneurs and game changers in the 4th Industrial revolution.

iti, Co-Founder, 9IJAKIDS.; an EduTech company experienced business and management consultant, founded by three Nigerian sisters, all passionate kids, through play, repetition, and practice using fun earning games. 9ijakids has developed an online and mobile platform that helps children ages 3-13 years understand and retain knowledge as well as excel in their passionate about revolutionizing the learning experience of kids, using fun learning games. Through its learning games, it is bringing digitization and learning to the African child worldwide.

Recently, 9ijakids partnered with Google to help more kids learn through Google's Read Along app. 9ijakids was Challenge 2019.

In 2019, Titi was a finalist at the Africa-UK Tech Female Founders organized by the UK government. Titi was also selected as one of the Leading Ladies Africa 100 inspiring women in 2020.

Titi has a BSc in Mechanical Engineering and is an

with over 18 years experience. Titi started her career about revolutionizing the learning experience of working in the banking sector before she joined multinational audit and consulting firm, KPMG. There, she spent over 11 years, rising to the position of Senior Manager leading business advisory & solutions with clients across several industries. Titi then spent 6 years academics using interactive fun games. 9IJAKIDS is building a multi million-dollar hospitality, & fast-food restaurant as a member of the Executive Management team, and a key leader in the multiple success stories of

Titi has been a volunteer teacher for over 15 years and is currently the Chairperson of Bethesda Child Support Agency, an NGO that provides free education to children among the top 10 finalists at the Union Bank Edtech across poor & undeserved communities across sub Saharan Nigeria. She also sits on the board of ROWAA an NGO that empowers widows.

> Titi is a contributor to BusinessDay Weekender a weekly business news newspaper in Lagos where she shares on education, family and entrepreneurship.



Nigcomsat has contributed to the broadband penetration, to drive digital transformation'

- MD/CEO, NIGCOMSAT, Dr. Abimbola Alale

In this exclusive interview with one of the TOP 20 CEO's this decade, Dr Abimbola Alale, MD/CEO, NIGCOMSAT shared her thoughts on ways to improve the broadband penetration and her priority in driving the digital transformation. Excerpts.

as MD/CE, can you give us an insight into your 1st term other achievements that are achievements?

as I give thanks to Almighty GOD for his supports and the opportunity that was bestowed on What will be the focus for your 2nd me to serve my country in this terminoffice?

capacity. Gratitude to Mr President, President Muhammadu Buhari and the Honourable Minister of Communications and Digital Economy Dr. Isa Ali Ibrahim (Pantami) FNCS, FBCS, FIIM.

Back to your question, I can tell you that NIGCOMSAT's achievements during my first term in office is actually within the yearly budget and IGR of the company. Nevertheless, the

organization was able to acquire the latest hub facilities in the industry, provide services to many schools across the nation, provide digital media platform that support digital TV broadcasting, served as spectrum manager to belintersat (Belarus satellite), supports many private companies

based internet solutions, there are classified based on national Thank you for your thoughtfulness security, thereby saving the federal government's from capital flight.



Well, my focus in this second term is to position the company to provide unparallel quality and affordable services that can support the digital economy policy of the federal government of Nigeria, and also to push for additional satellites for NIGCOMSAT Limited with the latest ground control

Congratulations on your 2nd term in the delivery of turnkey satellite infrastructure and satellite backbone infrastructure that the national broadband roadmap can

> The Hon. minister has changed the name of the ministry to what is acceptable and in line with the global practice to suit the trends of the ITU, to Communications and

> > Digital Economy. He came up with national digital economy policies and national data economy and has continued to push for broadband penetration to accelerate growth and social inclusion. Everything we provide now aligns with those policies. We are continually improving our services. What we are doing now is to improve business processes.

Can you elaborate on the role NIGCOMSAT plays in the Digital Economy policy of the Federal Ministry of Communications and Digital Economy?

The National Digital Economy Policy comprises of 8 pillars as stated in the policy document by the federal Ministry of



have massive youth However, let's address the issue of unemployment that must be engaged. Government services must be moved from filing cabinets to e-government platforms in the cloud. We have also learnt that for us to have meaningful contribution to wider digital global world, we need STEM - science, technology, engineering and mathematics taught at primary, secondary and tertiary institutions. This is necessary.

The issue of RoW won't go away. Have you addressed this with the state governors? Will high cost of RoW result in high cost of data?

The issue of open access was a very important issue in our industry. The success of voice technology has created fortresses. You have your network. I have my network. You don't share a base station. I have built my based station. You have built your own based station. You don't share. That's unsustainable. It does not make sense.

We have built an industry that was built on success. But we have forgotten that its foundation was weak. Why is it that we have networks and we have ISP, vast operators who are trying to compete in the same market who cannot access the same networks? If we are not careful we will go back to square one. We will have another version of NITEL.

What preempted the issue around open access was the story of the bottlenecks those operators that don't own the middle man infrastructure are experiencing when they want to build their own network. This arose because others will not want them to have access to their networks. It is not the right thing to do.

the Right of Way [RoW]. We will come back to multiple taxes but RoW was arbitrary. Who suffers? The consumers! Because that person was able to negotiate the RoW at a high price and passed the cost to the consumers and at the same time, there is no competitive force that is competing to ensure that the price goes down.

At the National Executive Council meeting in 2013, which ATCON members had with the minister of communication then, we told the governors that we need a harmonised rate. The evidence was provided that if we task infrastructure upfront, investors will not come into the country. Because if I'm bringing a certain amount of fund to invest and more than 50% of the fund has gone into administration, where is the fund to build infrastructure?

We are talking about equipment and not cement business, which you can add sand to get concrete. You can't connect fibre cable to a base station because the rate of RoW is exorbitant. Without realization, the idea of Infocus was built. It further opened access forum on the proviso that Internet Service Providers [ISPs] are able to access the middle man with capacity and then translate the lower price to the consumers.

That battle has taken us to 2020. Now the current Minister of Communications and Digital Economy and a member of ATCON, who was the chairperson for the Nigerian Broadband Plan 2020/2025, with the Executive Vice Chairman of Nigeria Communications Commission [NCC] had to visit the Nigerian Governors Forum [NGF] and

pleaded the case. With that move to the NGF, they could refer to the 2013 meeting where the current chairman of NGF attended seven years ago.

What has happened after the initial meeting?

Seven years later, that same person is now NGF chairman. He saw the merit back then and we commended his leadership and others that have followed. Even better, the 145/linear metre, and in one case the N1 per kilometre, we didn't ask for. He asked for a metre. But he gave N1 per kilometer. Anambra and Kaduna States waived the tariff. We commended the states because if it wasn't for the move by Ekiti State Governor Kayode Fayemi, now NGF chairman, we will still be discussing the issue of RoW.

For us, as a body, we are concerned because our members are licensed owners who are seeking RoW at abnormal rates. Now the pressure is on them because in some of the regions, some governors have been moving in. Imo States, for instance, have been moved. We are happy. We'll like others to follow suit. But I'm sure that some governors are aware of their colleagues' moves.

And if there is a business plan or a case presented, or if it is demonstrated, that dropping of RoW doesn't use internally generated revenue [IGR] or taxes or use them in employment. I am sure any meaningful governor will also adopt the harmonised RoW of N145 per millimetre for digital infrastructure deployment which is much needed right now.

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FG Approves Virtual Engagements for MDAs, parastatals and government-owned companies

The Federal Government at its Executive Council meeting has approved the policy on virtual engagements for the public service. The approval was made at its meeting on October 14, 2020.

Folashade Yemi-Esan stated that collaboration among stakeholders,

h conventional physical meeting format to virtual platforms.

meetings from

"Much as these changes were welcome, provision was not made for such meetings in the public service rules.

"This policy on virtual engagements for the public service was therefore developed to legalize as well as provide the framework and standards within which Ministries, Departments, Agencies (MDAs), Parastatals and Government-owned companies can use virtual engagements as an administrative procedure in the Public Service".

The policy would institutionalize the use of virtual platforms for effective and efficient service

A statement signed by the Dr delivery and encourage remote Therefore, the Minister of Communications and Digital the COVID-19 pandemic has led to including the private/public sector, Economy, Prof Isa Pantami has a sudden migration of official individuals and international urged all MDAs, parastatals and

> governmentowned companies to familiarize themselves with the provisions of the Policy and ensure full compliance. To ensure the interoperability of technologies adopted for intergovernmental meetings, government institutions at



organizations.

Aside from this, the statement said the policy would also effectively adopt and deploy digital technology for virtual engagements in order to improve service delivery in the public sector and enhance learning and manpower development across the various Ministries, Departments and Agencies (MDAs) in order to create a smart workforce among others..

the State and local government levels are encouraged to adopt the policy.

"The implementation of the policy will improve service delivery in the country and will support in the implementation of the National Digital Economy Policy and Strategy for a Digital Nigeria and will be supported by subsidiary legislation from our regulatory parastatals supervised by the Ministry", she said







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Why Telecoms Pay about 39 Different Levies and Fees in Nigeria

- Engr. Olusola Teniola, Immediate Past President of ATCON

In this exclusive interview with one of the TOP 20 CEO's this decade, Engr, Olusola Teniola, Immediate past president of the Association of Telecom Companies of Nigeria (ATCON) shared his thoughts on ways to improve the broadband penetration in Nigeria. Excerpts.

As the President of the umbrella body of telecoms in Nigeria, how do you rate the industry? (President till Summer of 2020)

The telecom industry did not start in 2001 when GSM license was given out as Digital Mobile Licenses (DML). To assume so will be missing the importance and contributions of those that came before the GSM licensing was awarded. I am going to say that if it wasn't for the feats of ATCON's past presidents, there would not have been a regular term in the NCC. So, that was the first task.

So, as a body, we did well in the early beginning. We were quick to realize that the regulatory directives of Ofcom in the UK were very unique to our situation in Nigeria. Again, we commenced our regulations then. Those that were part of it joined the NCC Act 2003 because it created a voice revolution. The voice revolution impacted our society tremendously in no small way.

It's easy now to say that the mobile device in the hands of many people is one of the most important appendages to the human body, which was the case in 2001. Nigeria started with 500,000 fixed line subscribers. We now have 188 million subscribers. It has meant

that the creation of the financial of applause for not experiencing services industry relied on our platform. It has changed the way youths and grandparents had different outages then. communicate.

You don't think the coronavirus that our members were able to pandemic has got something to do with it?

Covid-19 has also demonstrated



the importance of this infrastructure that was built on the voice revolution. Because in the last three months we have been on lockdown and people are still able to carry out some form of business transactions, and young people have started using e-learning to engage with the teachers. I think the industry deserves a huge round

any outage during this period. There are other institutions that

Secondly, we have also ensured give palliatives. We have built isolation centres in conjunction with the Nigeria Centre for Disease Control [NCDC] and give millions of citizen free SMS and special numbers and ensure that the prioritization of government's request to reach the poorest got the deserved attention.

What did ATCON members do differently during this period?

We have also learnt that our networks need to be built differently in preparation for the future. What is the future? It is the digital economy. I am proud that we as an industry, despite the challenges, were able to demonstrate that with all the obstacles that are prominent in our society in terms of doing business, we were able to render services to the vast majority of Nigerians.

We have learnt that we need to bring the internet to every Nigerian. We also understand that implementation of Nigeria broadband plan on 2020/2025 must be expedient because we





financial system is a messaging file copy of the music on my phone. system, whether it is a switch, MasterCard or visa.

do vou know what it means to move a virtual asset that leaves your phone? If I take your picture and send it to your phone, I will still have that picture on my phone. If I send music to you, I will still have a

But it is not like that for money. Someone created a virtual technology where value can be But when you use the Blockchain, moved. If you think about technology, you would find a use for blockchain technology. We engage in knowledge sharing and awareness sessions for clients. We can also use it to vote during an election. But such things can never

fly in Nigeria because it cannot be rigged. Even the person who set it up doesn't have the final say on the system.

Digital Encode's CTO and COO have been nominated as **Outstanding Cyber Security** Experts. What does this mean to the company?

Dr Obadare - When we receive an award, it authenticates our core values. It tells us that society is experiencing our impact. It places more responsibility on us. If our core value is appreciated, it means that we have to do more. We know we want to be the number one technology company in Africa. This mandate is motivating us. All the glory goes to the almighty God. What this award is telling us is that we have conquered this decade. And we are fully prepared by the grace of God to face the next decade through offering total quality services to the clients we

Dr Seyi - When we set up the business years ago, we didn't know that we are going to be celebrated like this. To whom much is given, much is expected.







It's futile to think anyone can stop cybercrime - Digital Encode Directors

We had an exclusive interview with the duo of Dr Adewale Obadare (Chief Operating Officer) and Dr Oluseyi Akindeinde (Chief Technology Officer) of Digital Encode. The directors explained that no one can stop cybercrime, as it is a \$5 trillion worth industry. Excerpt.

The climate has changed with the coronavirus pandemic. How has Digital Encode has the Data Digital Encode fared?

Dr Obadare - The coronavirus is a disruption to businesses. The **Dr Obadare** - The apex body that is reason we are still here is because we have a founding principle, which we have stuck to since we commenced business. We have over 20 staff. The principle is that every year, we attend a strategy retreat and at the session, we plan for the New Year.

Dr Seyi - When we started, we agreed we will take care of our staff. Some quoted companies think about the shareholders first. We take care of our staff first. They have also been taking care of our business as well.



Protection Compliance certification. What does it mean?

responsible for the regulation of data protection and privacy, National Information Technology Development Agency [NITDA], required that specialized organisations that have the knowledge of data protection and privacy should undergo rigorous requirements under NITDA before becoming a Data Protection Compliance [DPCO]. It means as a business you are responsible to work with organisations and help them to put in place process, structure and procedure around data protection and privacy. Right now, we are working with many organisations to prepare them for the data protection and privacy protocol.

What is the compliance level of Nigerian business with the Data **Protection and Privacy?**

Dr Obadare - Data protection and privacy are still nascent in Nigeria. Look at the financial sector, the banks have grown. They have done so much in cybersecurity. Data privacy is the legal part. The



protection is the technical part. That is what all the banks are doing. The privacy part means that any data that I share with any institution must be used for its purpose. That institution is obligated to protect my data when using it for obligated purposes. It is a dual responsibility for both organizations. There are many things for companies to do to be compliant through NITDA. NITDA has given the deadline, which is July. Organisations are responding and working with Data Compliance Organisations [DCOs] in the country to ensure that things work well. We need to be careful. What most companies are doing is filing. It is not the same thing as compliance. You need to look at









our environment to make sure that we have all the requirements. As a company, before you engage a DPCO you need to check your data privacy and protection. You must engage in a data readiness assessment. During that period you will know where you are. Are you good or average? This helps you to know where to improve. It is beyond documentation. Check are doing the right thing. Put in place the culture of data privacy and protection.

Dr Seyi - Social media is here to stay. Every time there is a disruptive system, others must build on it. So, we have the internet. Social media is built on the internet. It is taking many people out of circulation. It is also bringing others into circulation. Many politicians are using social media to send information. This interview could have been held via Zoom or another platform. The power of social media. It is easy to reach many people. In 2003, when defraud people. we started the business, our

newspapers, radio and fliers. A handbill's reach cannot be measured. You don't know how many people read the message. You cannot tell if the handbills were distributed or not.

On the other hand, on LinkedIn, we know the demography of those who viewed our posts. Businesses can tailor their marketing efforts, your environment. Ensure that you business development strategy and service offerings through social media. Now, we use social media for staff recruitment. We no longer place traditional advertisements. Social media is helping some experts to make money. The payment companies also employ social media influencers to engage customers and attract patronage. Technology is here to stay. We have to use it effectively in a positive way. Anyway, people are using technology for different reasons. Some people use it to clone different social media accounts. business dynamics has changed. The truth is that technology and As a B2B firm, we leverage the social media will not defraud people. It is people that will

marketing was done via the How can the federal government traditional method. We used strengthen existing cyber laws?

Dr Obadare – As a company, we have created institutional awareness for the Nigerian environment in the past years. There is a proliferation of the internet. The next buzz is digitization and automation. Many people and businesses are embracing the digital space. This will attract cybersecurity challenges. Technology enables every aspect of our life. As you leverage the power of technology, it comes with risks. You need safety measures when using technology.

The internet is a public place. Protect yourself. Install antivirus in your gadgets. Install a licensed antivirus to protect those gadgets. Do not install antivirus downloaded from the internet. A licensed antivirus will protect your gadgets. Cybersecurity is a big subject. It can be seen from different perspectives. It affects an individual, a business and the nation. On an individual level, protect your internet protocol.In terms of technology, there are specifics. A verified account does not mean it is authenticated. The verification means it is Barack Obama's account. It is his identification. This is different from authentication. Beyond identifying yourself, without a verified account, you need a twofact-authentication. It is something you know, something that you have and something you have had together.

You have a password. You have a token. They are on all social media accounts. Build immunity around yourself in the public space. If you are working from home because of the Covid-19, work through the



technical controls that are part of cyber hygiene. Nobody can stop cybercrime. It's an exercise in futility to think that you can stop cybercrime. There is a report that says that by 2025, the industry will be around \$5 trillion. The hackers know where the money is. What happened in Dubai concerning vouth now have a sense of entitlement. They do not believe in the concept of hard work. What to do is to create measures and controls to curb cybercrime.

Virtual Private Network. These are **Blockchain technology has** become a buzzword. Please shed light on this technology? **Dr Seyi** - Blockchain technology

has not been adopted because people don't understand it. It's not a virtual currency. It is not a cryptocurrency. It is analogous to the internet. At the advent of the Hushpuppy is an example. The internet, people did not people still don't understand what built the Blockchain knew it would not work unless they lav

because they think it will take away their jobs. During this pandemic, MasterCard, PayPal, Visa and Microsoft are now enabling Blockchain technology because you cannot argue with a fact. You can only argue with beliefs and opinions. Nigerian institutions should first disrupt themselves. There are some Nigerian banks that are still thinking about understand it. Even till now some Blockchain technology. Even the Central Bank of Nigeria [CBN] has the internet does. The man who not taken a decision on it. When the internet came to Nigeria, it took many companies time before they plugged into it. They wondered why they place their server on the internet. But it is not about placing your server on the internet. It is about placing your business on the internet.



law. But now we have a cyber-law. There is a need for massive lawyers and judges. If a scammer steals \$40 million a judge sentences him to a-three month imprisonment, it motivates the vouth to commit worse cybercrime. The judges need to consider the impact of the cybercrime. People are dying because they have been fleeced. Cybercrime is a matter of life and death. We need to enforce the law. To enforce the law, enforcement agents need more training and capacity building on cybercrime.

Before now, Nigeria had no cyber something else on it. That it is the reason we have cryptocurrency. That's the first application on the capacity development among the Blockchain. In technology, there is what is called infrastructure inversion. On the road, you think about bridges and other structures. With the Blockchain technology, you can do business with anybody. But you cannot experience hacking. The major problem around Blockchain is awareness and knowledge gap.

> Blockchain will take businesses away. Before, we used to buy a CD; not anymore. The same thing will happen. People are running from the adoption of the blockchain

Technology will make you money. It will save you money. It will give you a competitive advantage. If it is not doing any of those things, you can't call it technology. How can you detect a drug is fake? If it has the National Agency for Food, Drug, Administration and Control [NAFDAC] number on its package. But NAFDAC, as an organisation, can adopt technology, which the drug manufacturers would adopt. Conducting an internet banking transaction is like sending an email. You have not moved value. You have only sent a message. Mobile banking is like a messaging system just like an email. An email can boomerang. Also, banking transactions can fail. That is why when the protocol of the Nigerian Inter-Bank Settlement System [NIBSS] is down, you cannot activate any transaction because you are not moving value; you are pushing messages. So, the

