

ACCRA INTERNET EXCHANGE (Accra-IX)

*Enhancing Ghana's internet ecosystem and
strengthening its Digital Economy*

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Appreciation

Greetings from Ghana!

I would like to thank and appreciate the great work of the organizers, partners and stakeholders of the RIPE NCC, I wouldn't have been here if not for your efforts in putting this together, and to the amazing people and friends around here, I really appreciate you, also to Paix and Accra-IX, I appreciate all your efforts in getting me here.



ACCRA-IX

Founding Partners



Profile

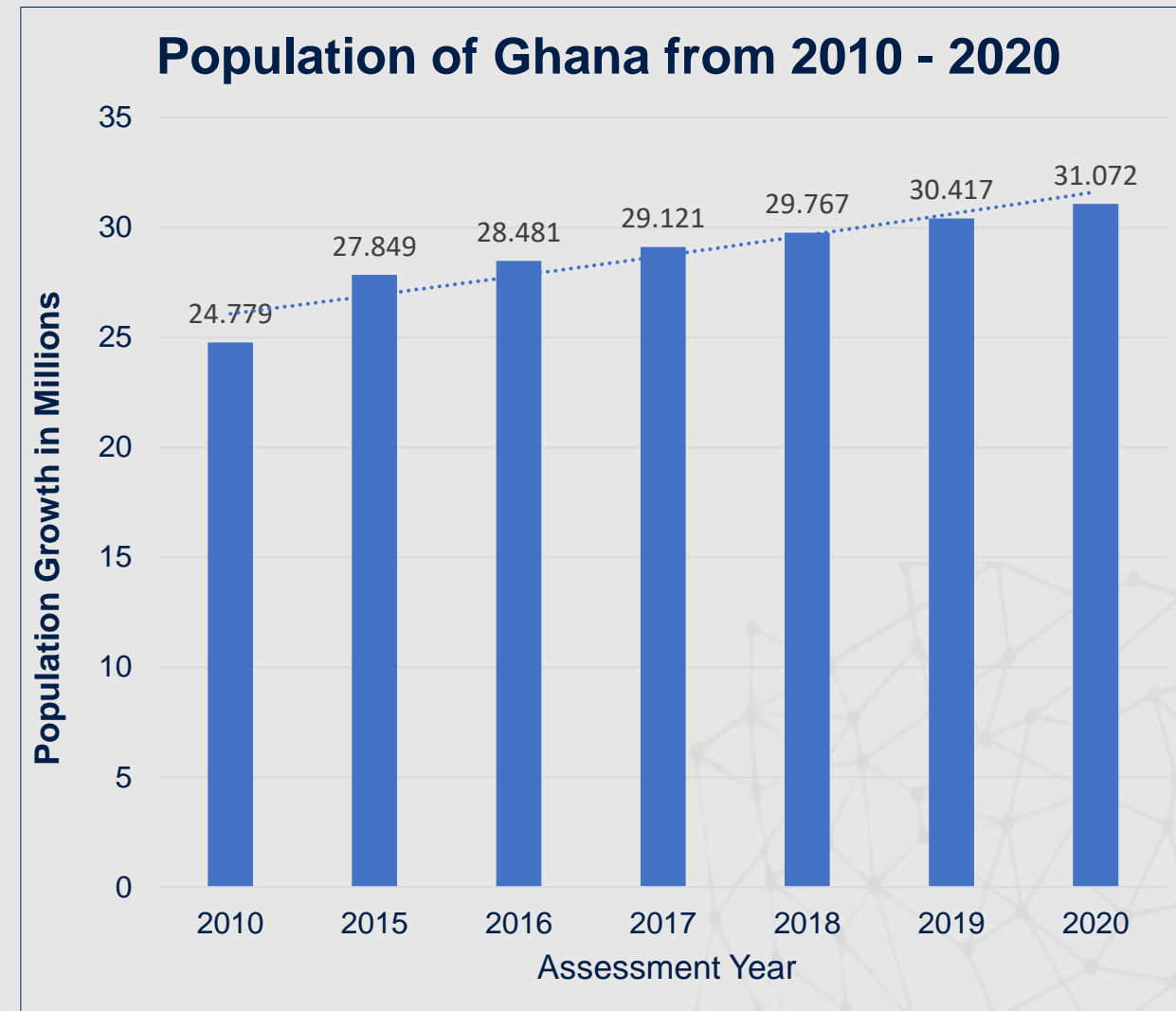
- The Accra Internet Exchange (Accra-IX) is a Non-Profit organization aimed at building and growing the internet ecosystem through colocation, peering and interconnection in Ghana.
- The Accra-IX was founded by a team of internet experts and digital entrepreneurs who understand and are well versed in networking and interconnections.
- Through Accra-IX, networks within the region will be able to exchange local traffic among themselves thus reducing the need for expensive international peering traffic. This will also encourage hyper-scalers and content delivery networks to come into the region following the traffic growth at the internet exchange.

Problem Statement and Solution Approach

Problem Statement	<p>Internet Service Providers (ISPs) are facing challenges in exchanging traffic efficiently with other networks. These challenges includes:</p> <ul style="list-style-type: none"> ▪ High latency ▪ High cost of connectivity. 	Solution	<p>The Introduction of an Internet Exchange Point (IXP) addresses these challenges by:</p> <ul style="list-style-type: none"> ▪ Providing a neutral platform for ISPs to directly exchange traffic with each another ▪ Having Carriers, CDNs, Cloud and Enterprise networks peer at the exchange. ▪ Cost saving on international transit
	<p>The current situation has additionally impacted and still affecting the digital lives of users and enterprises due to:</p> <ul style="list-style-type: none"> ▪ High cost of bandwidth ▪ High latencies ▪ Unreliable network services ▪ Unavailability of content 		IXP

Accra-IX

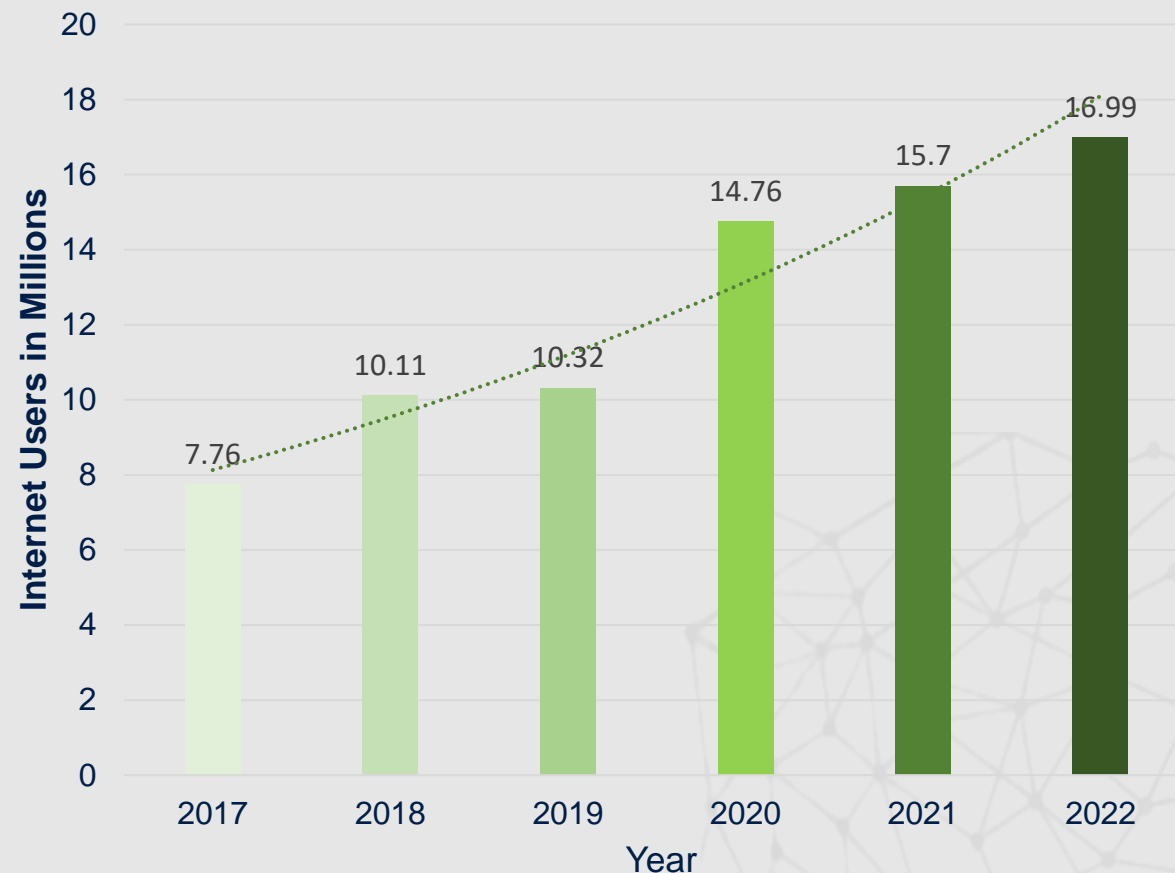
- The Accra-IX is a carrier neutral non-profit internet exchange point in Ghana, built for the community, by the community
- Ghana has one of the fastest growing populations in West Africa with the population growing from **24.8m** to **31.1m** in which represents an annual average growth of **2.2%**



Accra-IX

- Internet users have grown from **7.96m** users in 2017 to **16.99m** as of 2022, which represents an increase of **113.5%** of internet user growth over the period
- There are a total of 6 submarine cables landing in Ghana.
 - ACE
 - MainOne
 - WACS
 - Sat-3/WACS
 - GLO-1
 - 2 Africa

Internet Users in Ghana from 2010 - 2020



Key Differentiators

Regional Peer	<p>Improved Latency: The IX is located in the heart of the internet ecosystem in Accra (PAIX) and offers:</p> <ul style="list-style-type: none">▪ Free Ports (1GB, 10GB, 100GB)▪ Direct access to local content▪ Better latency to CNDs within the region▪ Direct access to eyeball networks
Community Objective	<p>The objective of the Accra-IX community is to create:</p> <ul style="list-style-type: none">▪ A neutral platform for all▪ An open peering policy for all community members.▪ Creating basic and advanced education and awareness for the protection and usage of the internet▪ Traffic aggregation – keeping Ghanaian traffic in Ghana▪ Data Sovereignty – local peering enables data sovereignty



Advantages of Accra-IX to the Ecosystem

- **Reduced Latency**

Through direct interconnectivity, transmission time for data is minimized, thus reducing network latency, making it more efficient.

- **Better End User Experience**

Accra-IX will facilitate better communication, collaboration, control and trust between service providers, thus improving the service/experience provided to the user.

- **Lower Data Cost**

With the reduction of expensive international data traffic and less cross-border data transmission, directly results in a cost savings that benefits the user community.

Accra-IX Location



**#42 Ring Road Central
Accra Ghana**

The Heart of Africa's Digital Economy

Facility Specifications

- Carrier Neutral
- N+1 Redundancy
- Meet-me-Room
- 2.5MVA Campus Power
- Multiple Fiber entry points

The PAIX Community

- 40+ Carriers
- 4+ CDNs
- 4 Telecommunication Companies (All in Country)
- Enterprise and Financial Institutions

About PAIX



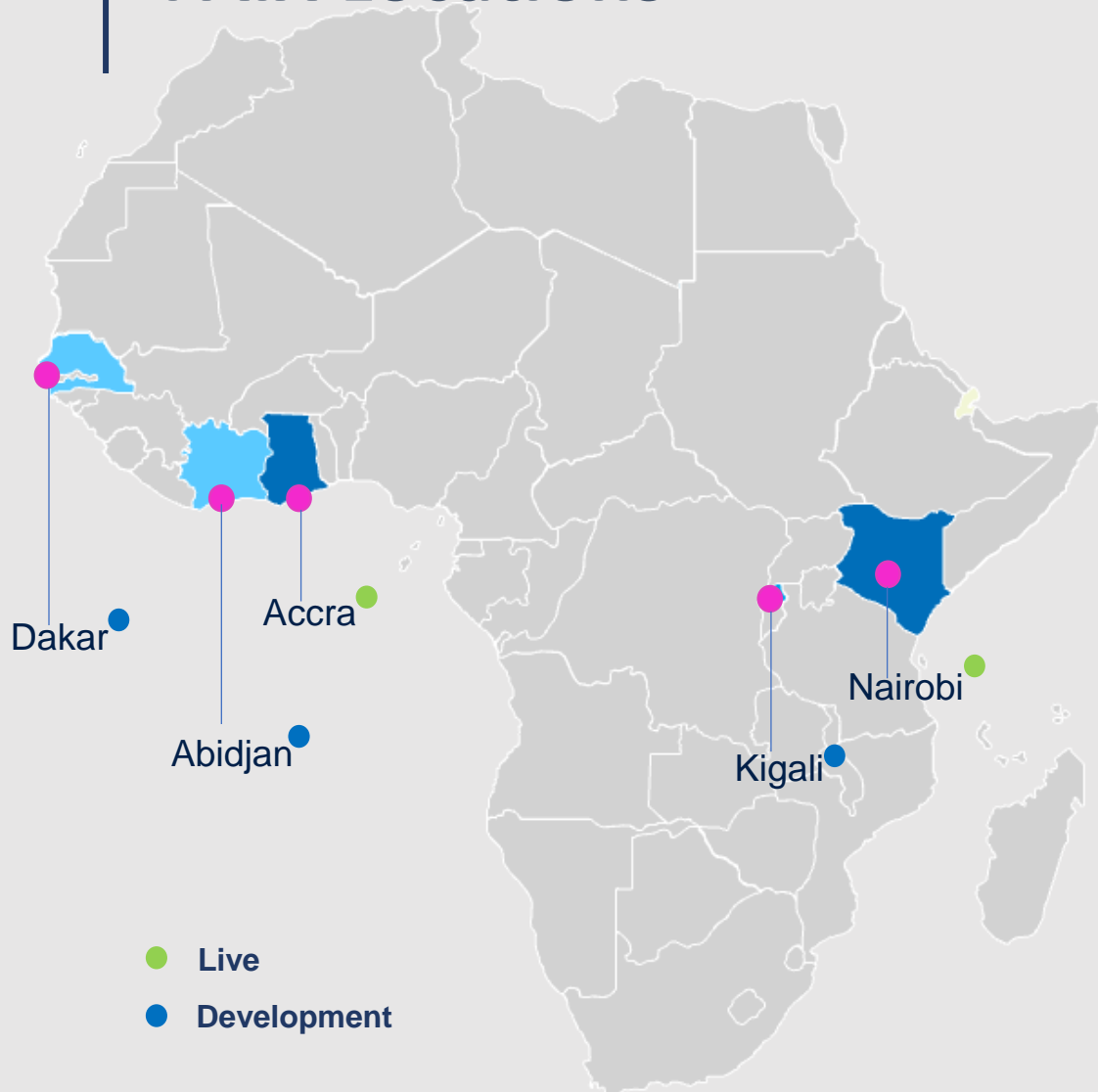
PAIX Data Centres is a Pan-African provider of cloud- and carrier-neutral colocation data centre services in Africa.

PAIX enables its customers to create value by housing, protecting, and connecting their most valuable applications.

Our products are standardised across all its data centre campuses: Accra, Nairobi, Dakar, Abidjan. More to follow !

The Heart of Africa's Digital Economy

PAIX Locations



22 - 26 May 2023

- Accra - Ghana**
#42 Ring Road Central - Accra
 - Upgrading campus power to 2.5mw
 - 200+ cabinets
 - Dual power feed to customer equipment
 - Power Options (Dual 32A Single phase/50A phase to phase IEC) 2kw – 30kw per cabinet
 - PeeringDB – PAIX Accra Ghana
- Nairobi - Kenya**
Britam Tower – Hospital Road
 - 200+ cabinets
 - Dual power feed to customer equipment
 - Power Options (Dual 32A Single phase/50A phase to phase IEC) 2kw – 30kw per cabinet
 - PeeringDB – PAIX Nairobi
- Dakar - Senegal**
Coming Soon
- Kigali - Rwanda**
Coming Soon
- Abidjan – Cote d’ivoire**
Coming Soon

RIPE 86

Let's Take a Tour !



An aerial night view of Accra, Ghana, showing a dense urban landscape with numerous illuminated buildings, roads, and green spaces. The city lights create a vibrant glow against the dark sky. The text 'Welcome to Accra' is overlaid in the center in a large, white, sans-serif font.

Welcome to Accra



PAIX Accra before the construction of ACC-1.3





PAIX Accra ACC-1.3 architect's impression









Nairobi











The African Peering and Interconnection Forum

 22 – 24 August 2023

 Accra, Ghana



Organizers:



paix™

Contact

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- <https://accra-ix.net> (Coming Soon)
- ASN: 41693
- PeeringDB (Coming Soon)

Let's Connect, Transact, and Grow

(Remember to check if you need a visa for Ghana!)

Thank you

