

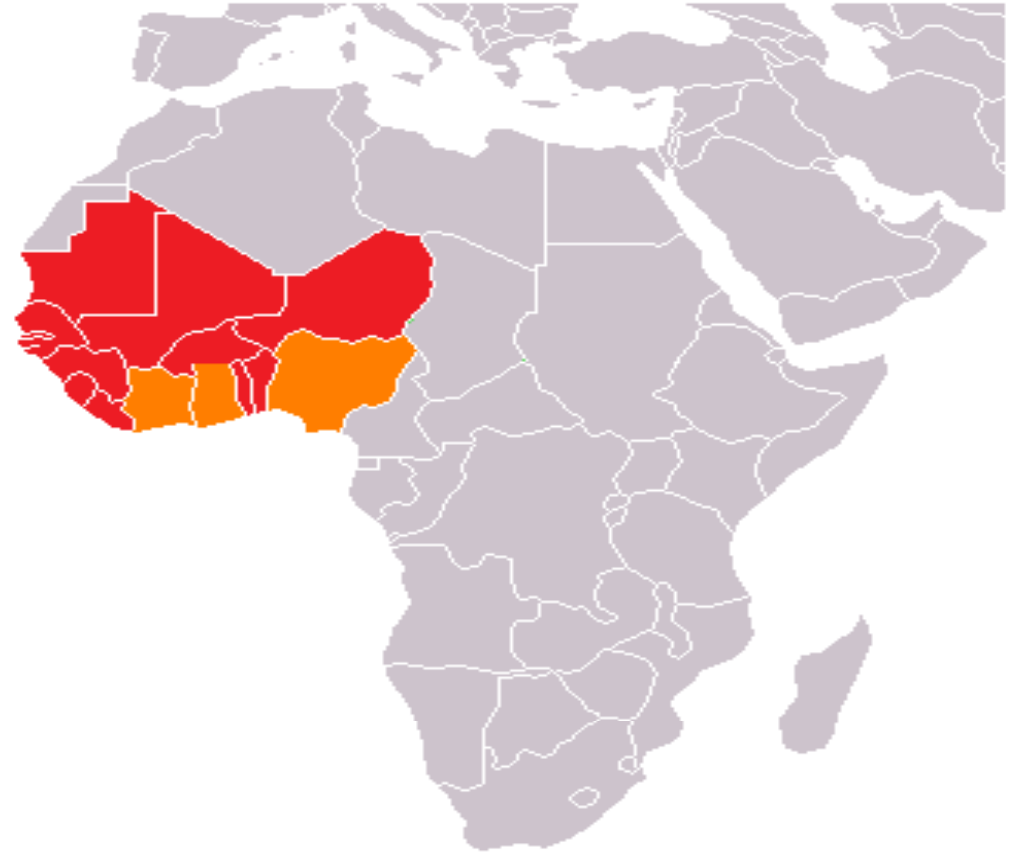


# STATUS OF WEST AFRICAN IXPs 2009

With focus on Nigerian IXP

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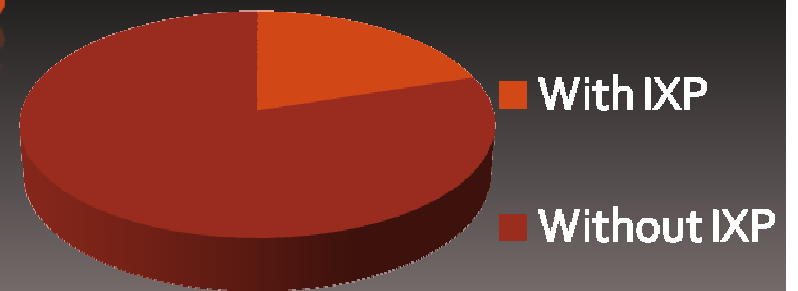
With IXPs 3	Without IXPs 12
Côte d'Ivoire	Benin
Ghana	Burkina Faso
Nigeria	Cape Verde
	Gambia
	Guinea
	Guinea-Bissau
	Liberia
	Mali
	Niger
	Senegal
	Togo
	Sierra Leone



## WEST AFRICAN IXPs

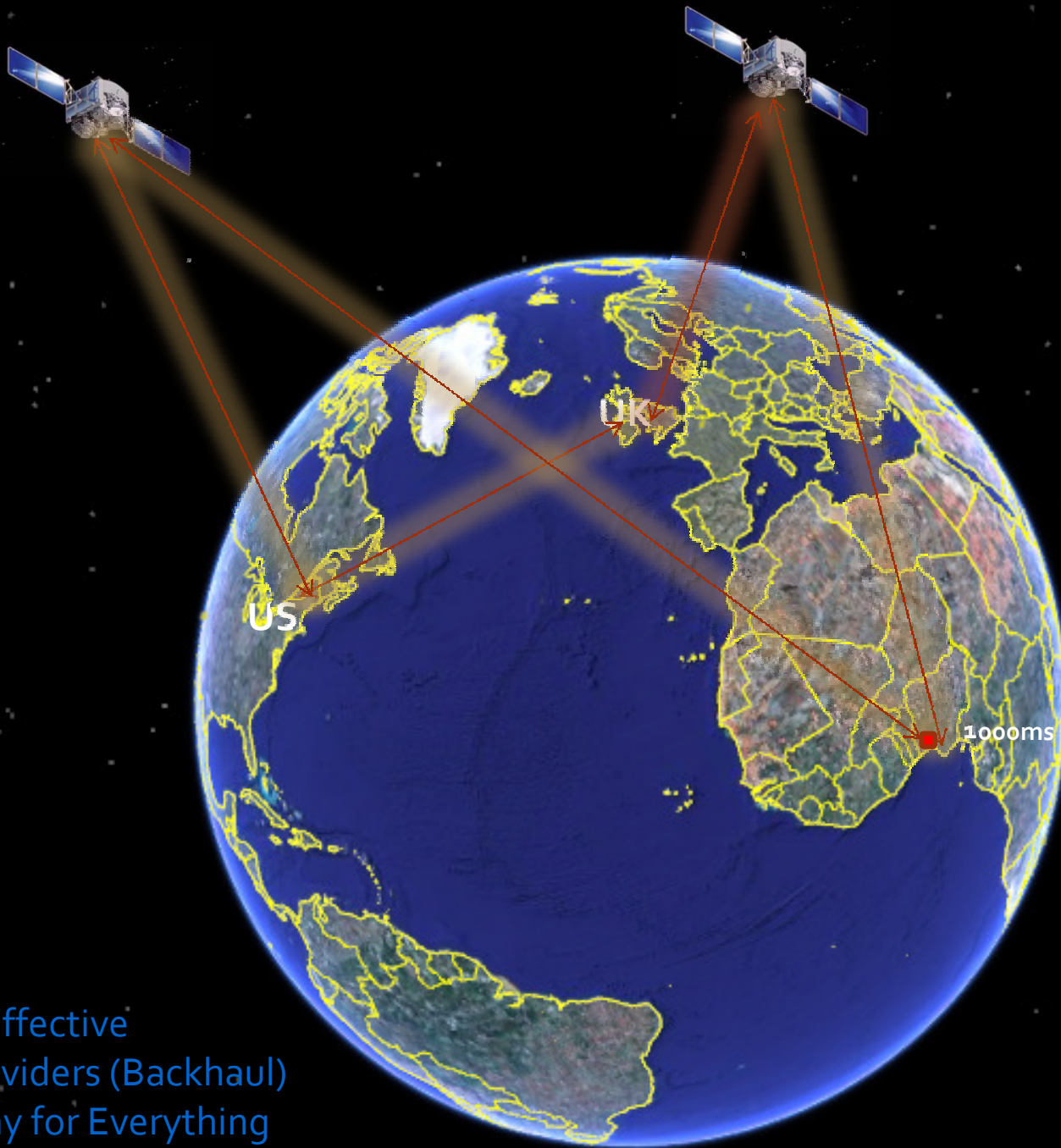
With IXP 20%

Without IXP 80%



Country	City	Internet Exchange Name	Participants	Traffic Mbps	Established	URL
Côte d'Ivoire	Abidjan	Côte d'Ivoire Internet exchange Point	6	5	2006	<a href="http://www.ciixp.ci">http://www.ciixp.ci</a>
Ghana	Accra	Ghana Internet Exchange	24		2006	<a href="http://www.gixa.org.gh">http://www.gixa.org.gh</a>
Nigeria	Lagos	Internet eXchange Point of Nigeria	21	10	2007	<a href="http://www.nixp.net">http://www.nixp.net</a>

## WEST AFRICAN IXP DETAILS



It is not cost effective  
Cost both providers (Backhaul)  
Customers pay for Everything

# Benefits of IXPs to Africa

## SAVES MONEY!!!

- Traffic going overseas means transit charges paid to your upstream ISP
- Reduces foreign exchange/ capital flight
  - Money stays in local economy
  - Used to provide better local infrastructure and services for customers
- Customers pay less for Internet access
  - Therefore more customers sign up, better business
- Enhance local connectivity and improve internet experience of end users
- New revenue opportunity
  - IXPs have considerable multiplier effect on the economy by enabling Applications



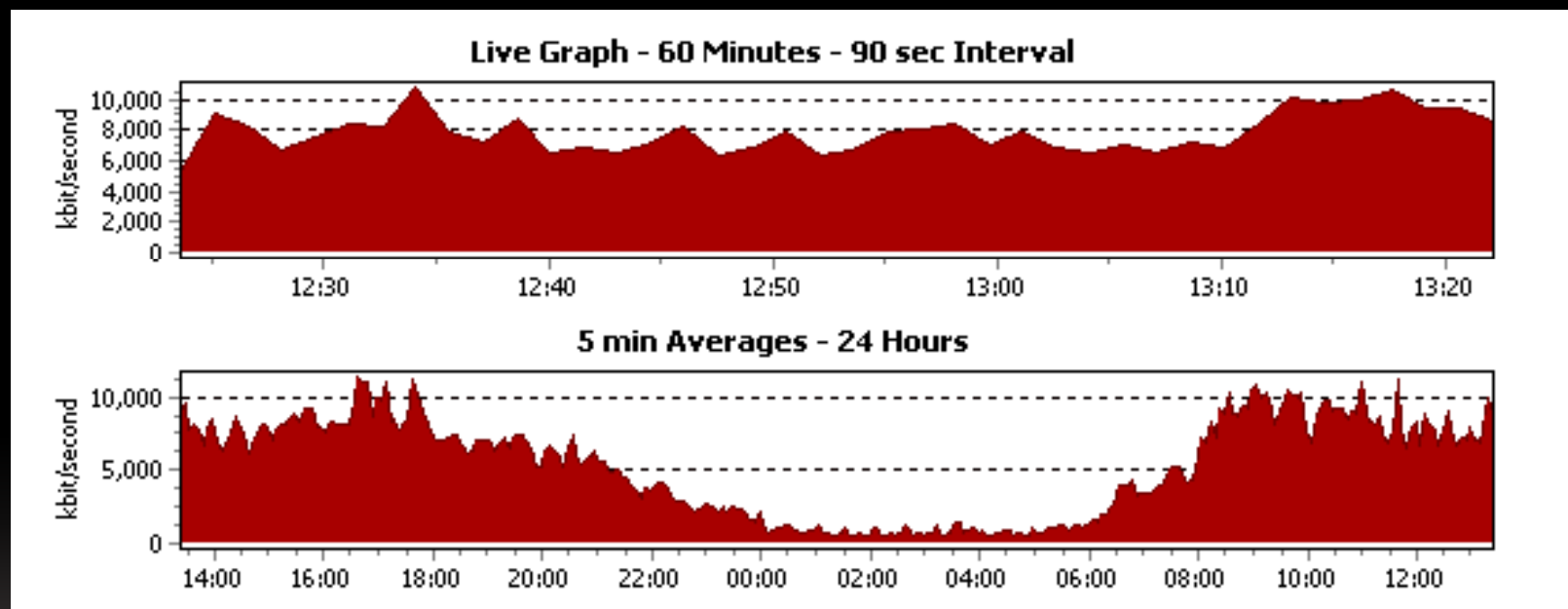
[www.nixp.net](http://www.nixp.net)

# STATUS OF INTERNET EXCHANGE POINT OF NIGERIA

## Milestone

- 100 % completion of Lagos exchange branch
- Increase of membership from 18 in 2008 to 22 in 2009
- Increase in traffic from 5mbps in 2008 to 10mbps in 2009 i.e 100% increase
- Finalized with ISC in the deployment of F-root server for Nigeria

# Aggregate IXPN traffic



## Lesson learned

- Change in peering policy from bilateral to multi-lateral
- Change in design from three locations to one
- Peering issues due to lack of BGP knowledge e.g re-advertisement of IP blocks
- Begin small !
- Collaborate with the regulators in ensuring smooth take up

## Way forward

- Collaboration with NgNOG to connect all higher educational institutions in Lagos to the exchange point towards the establishment of NREN
- PPP in the establishment of other IXPs across the country & inter IXP backbone link
- Localization of Google, Microsoft etc & Deployment of content distribution network (CDN) e.g Akamai
- Massive campaign for local content development
- Interconnection of all West African IXPs



THANK YOU FOR YOUR ATTENTION



Questions ?