50/50 Vision for Internet in Africa ?

Internet Society

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Agenda

1. The 80/20 vision & Lessons learnt
2. What's Next After 80/20?
3. Call for comments and feedback
4. Adoption process and agenda
5. Q&A

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The 80/20 Vision

Keeping Local 80% of Internet traffic local by 2020

From 2010 to 2022, 3 markets achieved the goal: Nigeria, Kenya and South Africa

Several internet development from various Africa Internet Ecosystem

Internet Society Study report :

https://www.internetsociety.org/resources/doc/2021/moving-toward-an-interconnected-africa-the-80-20-initiative/

	2010	2020
Number of IXPs	19	46
Countries with 70+% localized traffic	1 (South Africa)	3 (South Africa, Kenya, Nigeria)
IXPs with 30+ networks	No data	10 (Ghana, Kenya, South Africa, Tanzania, Uganda)
Content Delivery Networks (CDNs)	No data	33 countries have at least 1 international CDN
Content hosting for data centers	Low demand	High demand

Scan me!

The Lessons learnt

South Africa, Nigeria, and Kenya are still the main hubs that serve their neighbouring countries because that is where most CDN Points of Presence (PoPs) are hosted.

Because of the dispersed main hub locations, across Africa much local traffic still 'trombones' across countries and regions.

The number of connected networks and available prefixes at IXPs in Africa remains low, hence the low levels of local traffic.

What's Next After 80/20 ? 1/3

- Growing the number of networks and prefixes accessible at the IXP will directly and positively impact the growth of local traffic

- Target: Increase the accessibility of the global networks (prefixes) through peering and 50% of traffic locally

- To achieve such an ambitious vision, we'll need participation from across the Internet ecosystem stakeholders

- How Africa peering community can help ?

What's Next After 80/20 ? 2/3

For IXPs:

- Build the capacity of Af-IX IXP members to run IXP operations efficiently and sustainably
- Support the development of strong, reliable and secure IXP infrastructure platforms of existing IXPs and New IXPs
- Build strong communities by organizing local peering community events
  - National peering events
  - Regional peering events
  - Continental Peering event
- Attract 50% of AfriNIC ASNs to be accessible at 50% of IXPs in Africa

What's Next After 80/20 ? 2/3

From the market and ecosystem perspective

- Advocate for open and competitive markets
- Advocate for enabling national and regional policies that promote open and competitive development of national and cross-border terrestrial infrastructure which supports Internet peering and interconnection.
- Encourage international operators such as Content Delivery Networks (CDNs), IP Transit service providers, etc. to deploy more Points of Presence (PoPs) in the region while connecting to local IXPs
- Encourage regional ISPs, carriers and transit providers to openly peer at IXPs in neighboring markets to grow regional interconnection.
- Promote the development of content hosting infrastructure such as carrier-neutral data centers to spur the growth of the local content space.

Get involved in the new vision development

Share Comments & feedback from August 2022

Review from September to October 2023

Adoption and promotion Q4 2022

Execution and report from 2023 to 2025

Thank you.

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