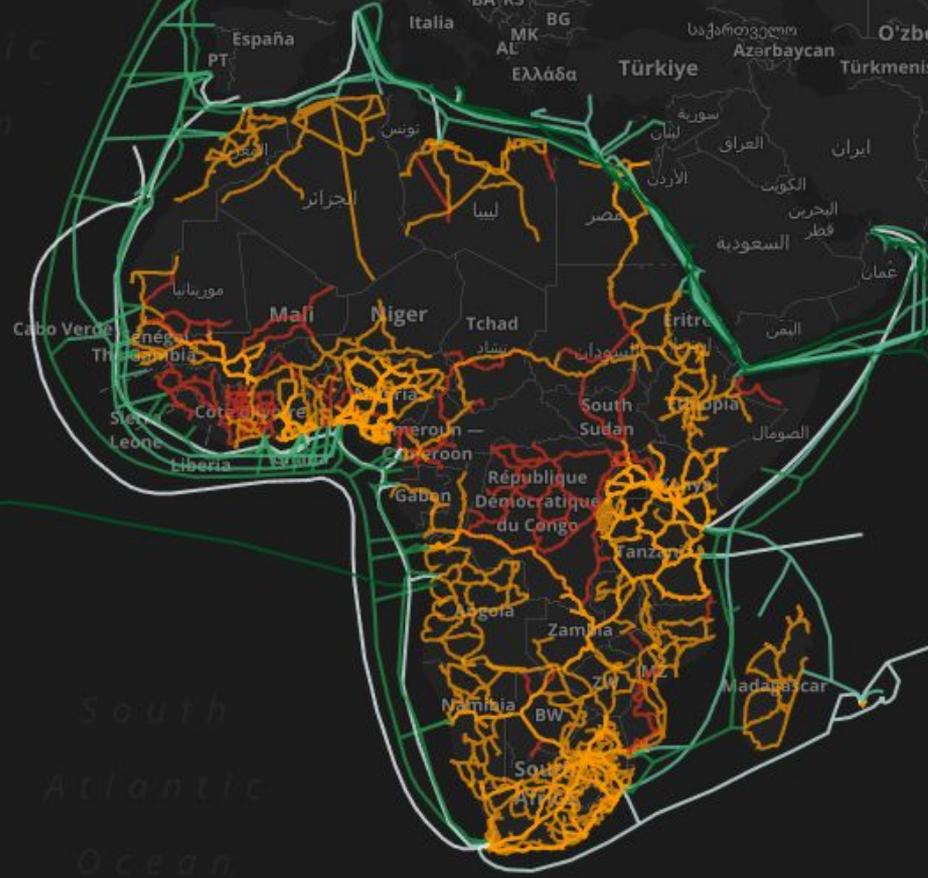


UIXP



The Uganda Internet Exchange Point

Introduction to Peering & the UIXP

Presentation Summary:

An overview of the Uganda Internet Exchange Point, the benefits of peering, and how to get started.

Table of Contents:

- 3 Introduction to the UIXP
- 4 Benefits of Peering
- 9 Connected Networks & Vital Statistics
- 10 Getting Started: Requirements for Peering
- 11 Announcement: Raxio Expansion
- 13 Q&A

What is the UIXP?

The Uganda Internet eXchange Point is a **non-profit** organisation founded in 2001 with the goal of improving Internet connectivity within Uganda and the East African region.

Its **neutral switching infrastructure** allows networks to directly interconnect and freely exchange data traffic at a common point, thereby reducing the amount which must be delivered via costly intermediaries such as upstream transit providers.

This lowers the overall cost of service delivery, improves routing efficiency, and increases fault-tolerance. In other words: We make the Internet **cheaper, faster, and more reliable**.

Watch the video on our website: uixp.co.ug

Benefits of Peering

Peering is a **settlement-free interconnection** with another network (autonomous system).

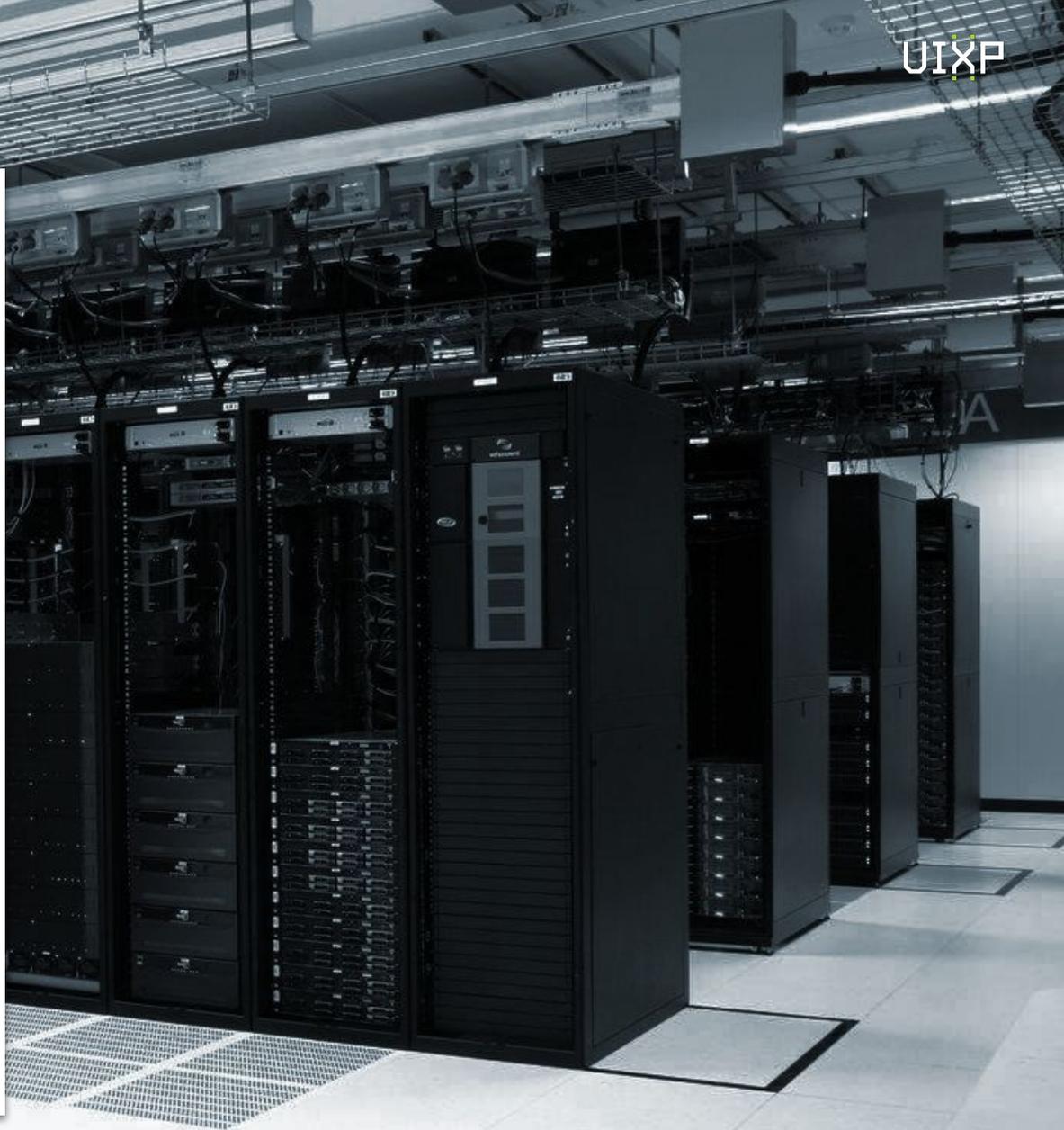
Peering can improve routing, liberate upstream capacity, and is almost always cheaper than transit.

Peering can enable enterprise, online gaming, and other network activities that require low latency connectivity to users and services on other local and regional networks.

For carriers, peering with non-customer networks can improve margins and serve as a conduit for future commercial relationships.

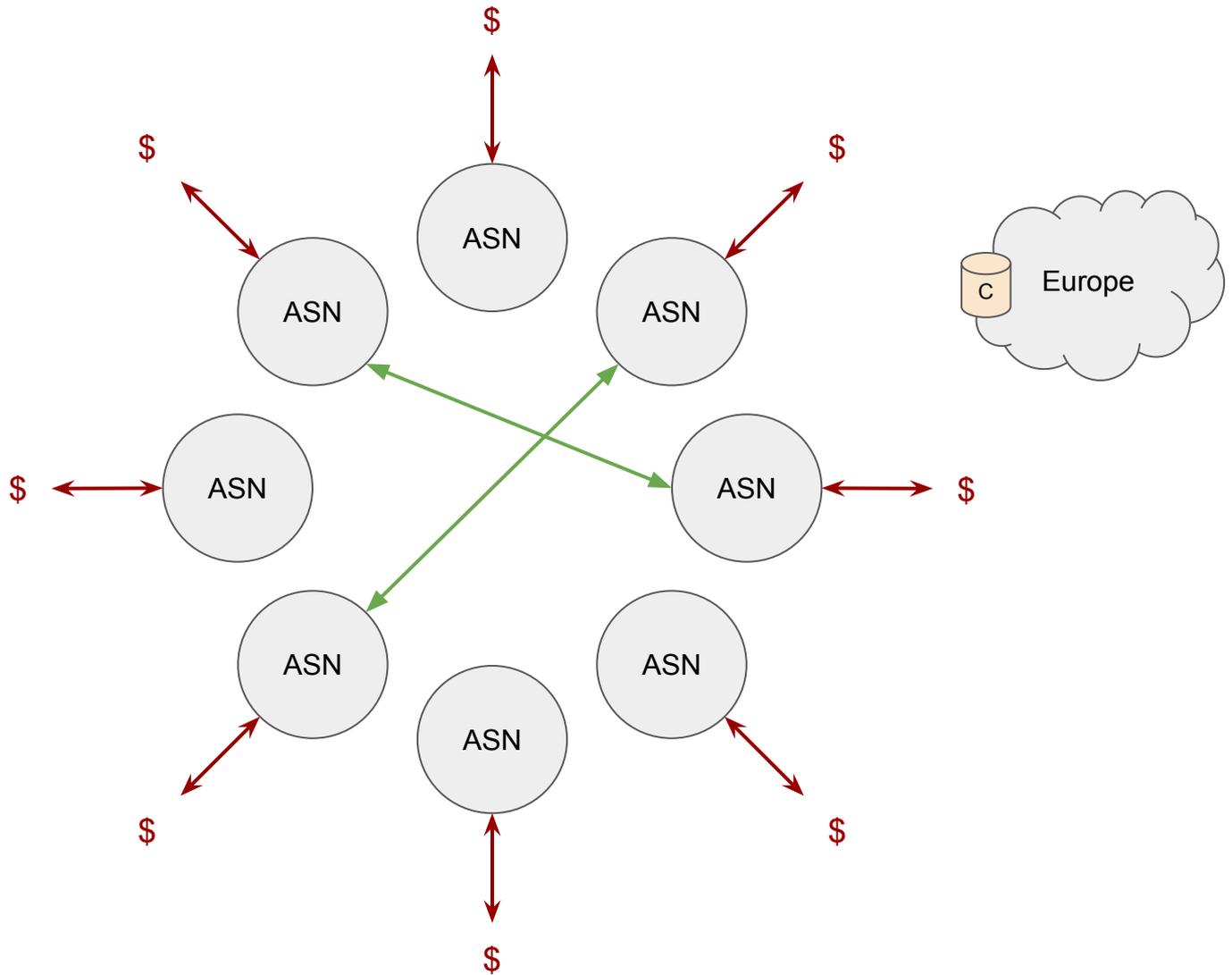
Peering agreements are typically informal (99.93% in 2016 according to a PCH study).

Peering is commonly conducted via IXPs but can also occur via PNIs in data centers.

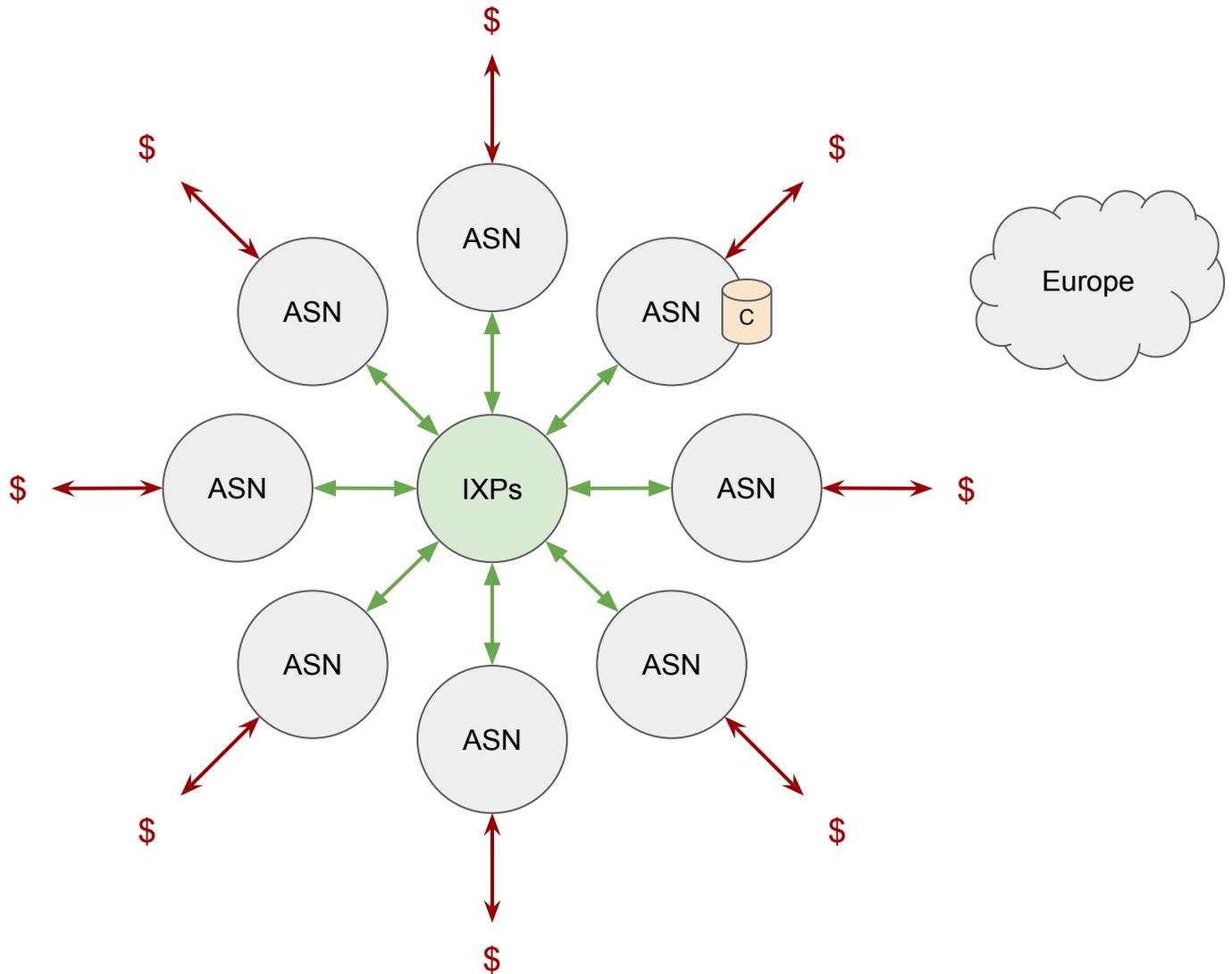


Example

How the UIXP enables local hosting of content and services in Uganda



Without an IXP, only private bilateral interconnections were possible. Most networks had lower latency to Europe than to each other. Faster and cheaper to host content there.



The introduction of an IXP enabled large-scale interconnection. Most networks now have lower latency to each other than to Europe. Faster and cheaper to host content locally.



Watch the video on our website to learn more about IXPs!

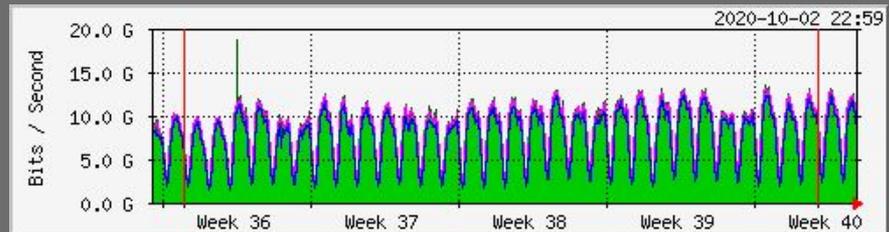
<https://www.youtube.com/watch?v=T2jb1tzXzMw>

Snapshot: October 2020

28 Connected Networks

Africa Online	NFT Consult
Africell	NITA-U
Airtel	PCH (Root DNS + RC)
Akamai	RENU
Al Bayan Media	Roke Telkom
Bandwidth & Cloud Services	SEACOM
Blue Crane Communications	SimbaNet
Datanet	Smart Telecom
Facebook	Smile
Gilat	Sombha Networks
Google	Tangerine
Internet Solutions	TruIT
Liquid Telecom	Uganda Revenue Authority
MTN	Uganda Telecom

13 Gbps of Peak Daily Traffic



100.000% Annual Uptime

State	Type / Reason	Time	% Total Time	% Known Time
UP	Unscheduled	365d 6h 0m 6s	100.000%	100.000%
	Scheduled	0d 0h 0m 0s	0.000%	0.000%
	Total	365d 6h 0m 6s	100.000%	100.000%
DOWN	Unscheduled	0d 0h 0m 0s	0.000%	0.000%
	Scheduled	0d 0h 0m 0s	0.000%	0.000%
	Total	0d 0h 0m 0s	0.000%	0.000%
UNREACHABLE	Unscheduled	0d 0h 0m 0s	0.000%	0.000%
	Scheduled	0d 0h 0m 0s	0.000%	0.000%
	Total	0d 0h 0m 0s	0.000%	0.000%
Undetermined	Nagios Not Running	0d 0h 0m 0s	0.000%	
	Insufficient Data	0d 0h 0m 0s	0.000%	
	Total	0d 0h 0m 0s	0.000%	
All	Total	365d 6h 0m 6s	100.000%	100.000%

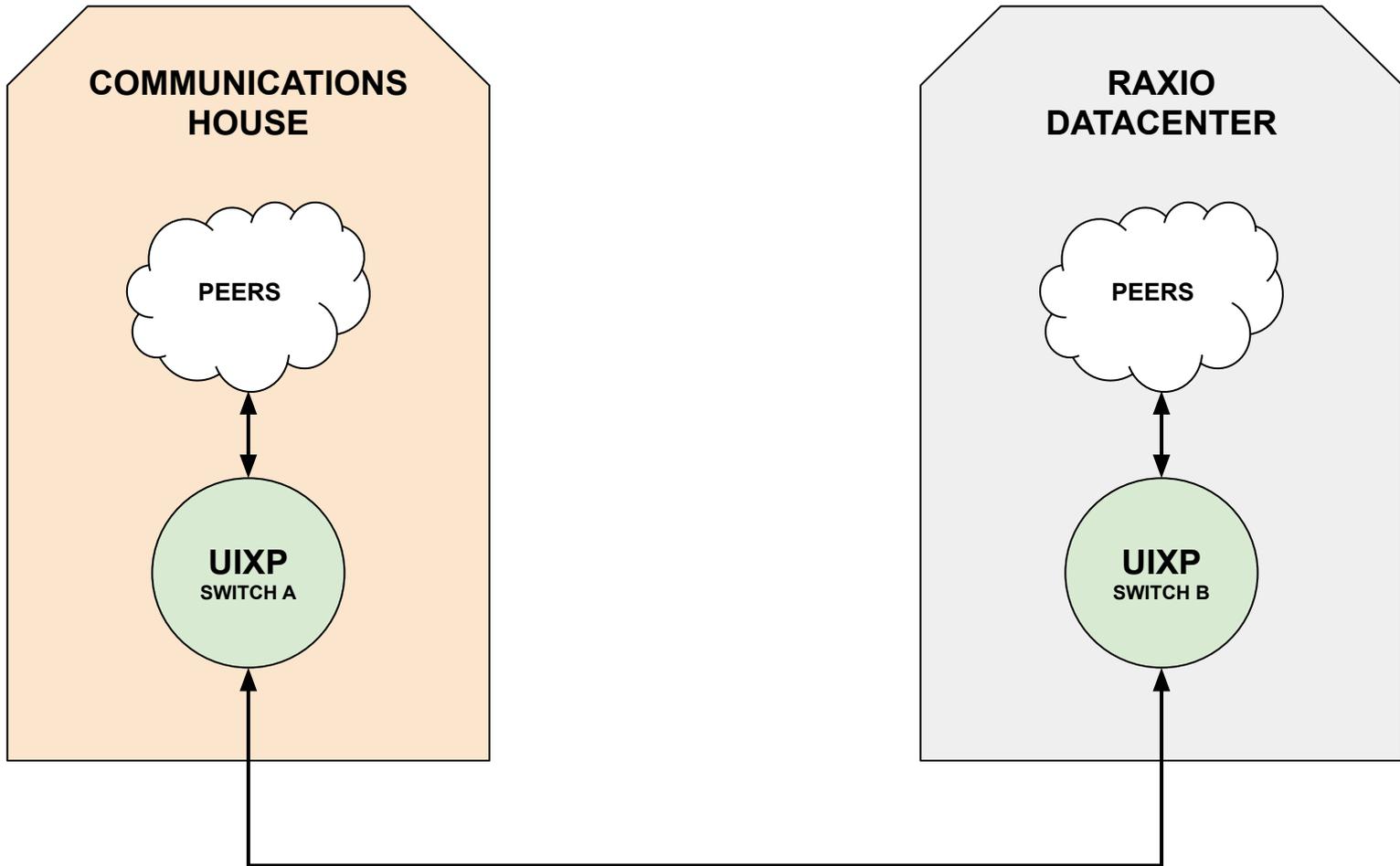
Follow these steps to start peering with other networks in Uganda:

1. Acquire an Autonomous System Number (ASN) and Public IP address space from AFRINIC or another Regional Internet Registry (RIR).
2. Send us a message to signal your intent to connect. Include your ASN, some basic information about your network, and an indication of the relevant services you wish to receive from us.
3. Sign our Participation Agreement and a Service Order Form.
4. Meet with us to tour our facility and make deployment plans.
5. Submit payment and extend your network to our facility either via fibre or a wireless radio link.
6. Connect your network to our switching infrastructure using the port and IPv4/6 addresses that we assign to you. We will also give you access to our online customer portal.
7. Optionally configure an IPv4 and IPv6 BGP session with our route servers and/or work to establish bilateral BGP sessions with other networks at the exchange.

Visit our website for more information and a list of the specific services we offer: <https://uixp.co.ug>

Announcement!

The UIXP is expanding into Raxio's new carrier neutral data center!

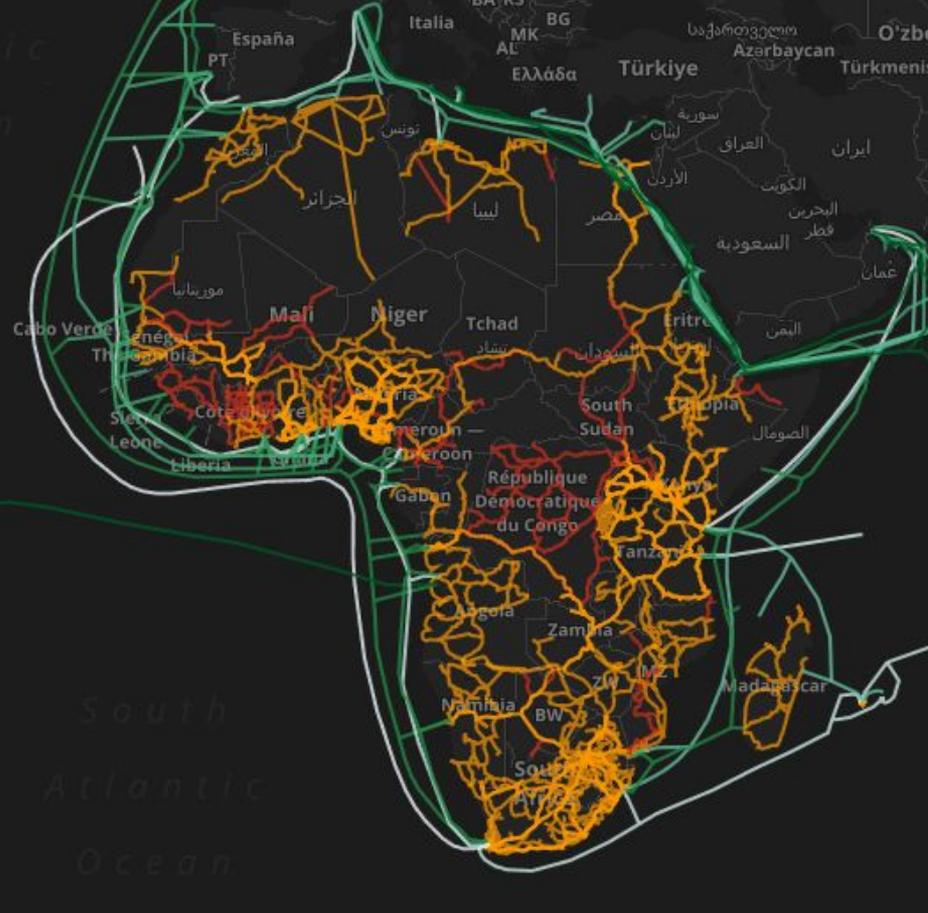


The goal: A single peering LAN spanning both sites, interconnected via dark fibre. This will allow networks to peer with each other from either location.

Questions?

Visit our website for more information: <https://uixp.co.ug>

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Introduction to Peering