



AFRALO General
Assembly-Accra
24-25 July 2023

AFRINIC
The Internet Numbers Registry for Africa



AFRINIC GLOBAL UPDATE

 www.afrinic.net  blog.afrinic.net     /afrinic

Brice ABBA - brice@afinic.net
Cedrick Mbeyet - cedrick.mbeyet@afinic.net

AGENDA

Services to Members &
community

Resource Update

AFRINIC Update

Services to
Members &
community

- WHOIS Services
- Routing Security

SERVICES

- WHOIS & RDAP
- Internet Routing Registry (IRR)
- Resource Public Key Infrastructure (RPKI)
- Reverse DNS & DNSSEC
- Capacity Building - e-learning platform,
IPv6 Helpdesk & Webinars

AFRINIC Internet Development Programs?

6 Programs

1. Technical Community Development Program
2. Fellowship Program
3. Research and Collaboration Program
4. Diversity in ICT Program
5. African IGF & ICT Initiatives Development Program
6. Critical Infrastructure Development Program

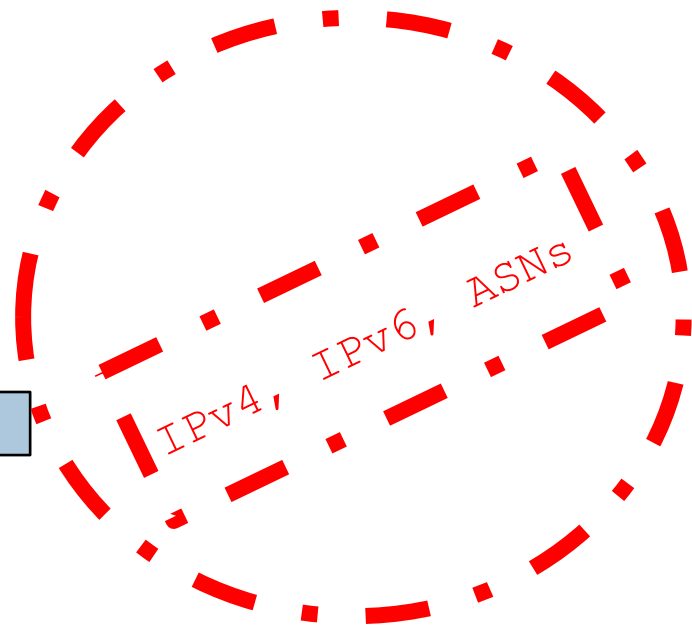
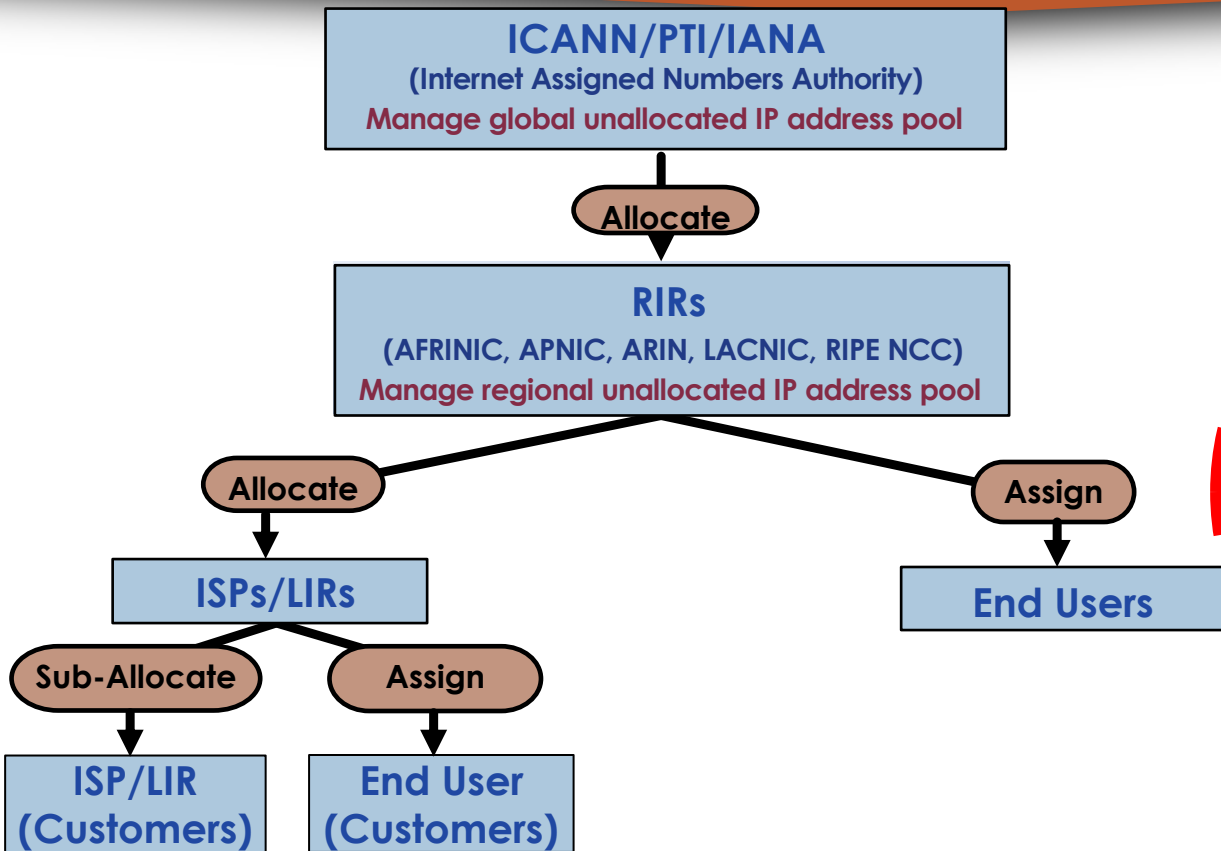




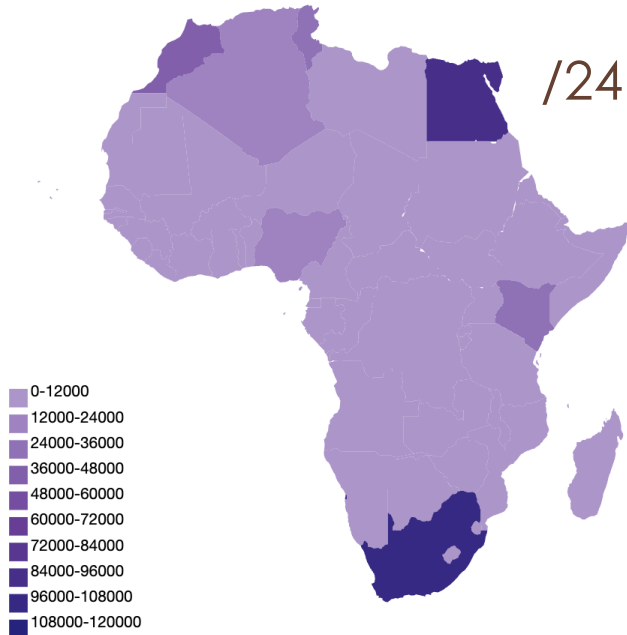
Resource Update

- AFRINIC Membership
- IP numbers Allocated

How Are IP Addresses Issued?

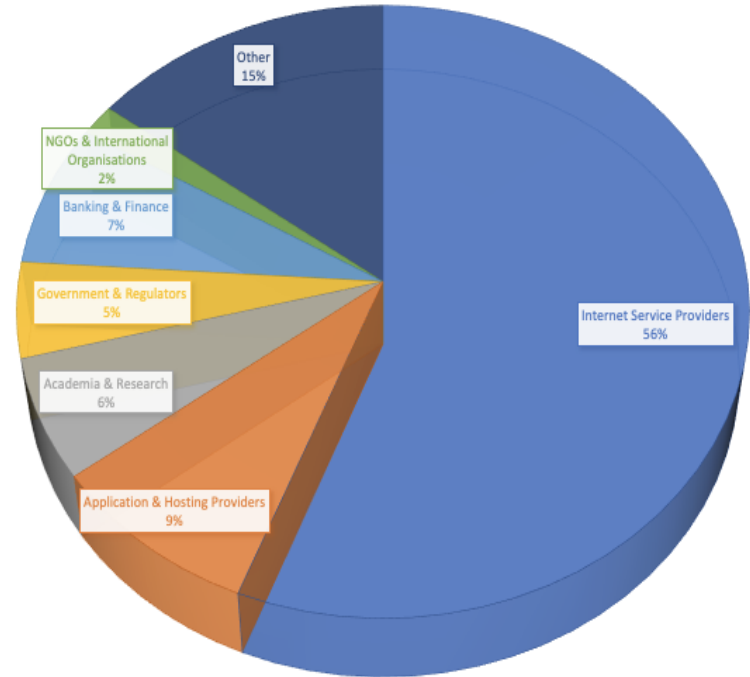


2197 Members



Central: 5507
Eastern: 36762
Indian Ocean: 50106
Northern: 200985
Southern: 123923
Western: 35008

MEMBERS BY CATEGORY



How to Become Member

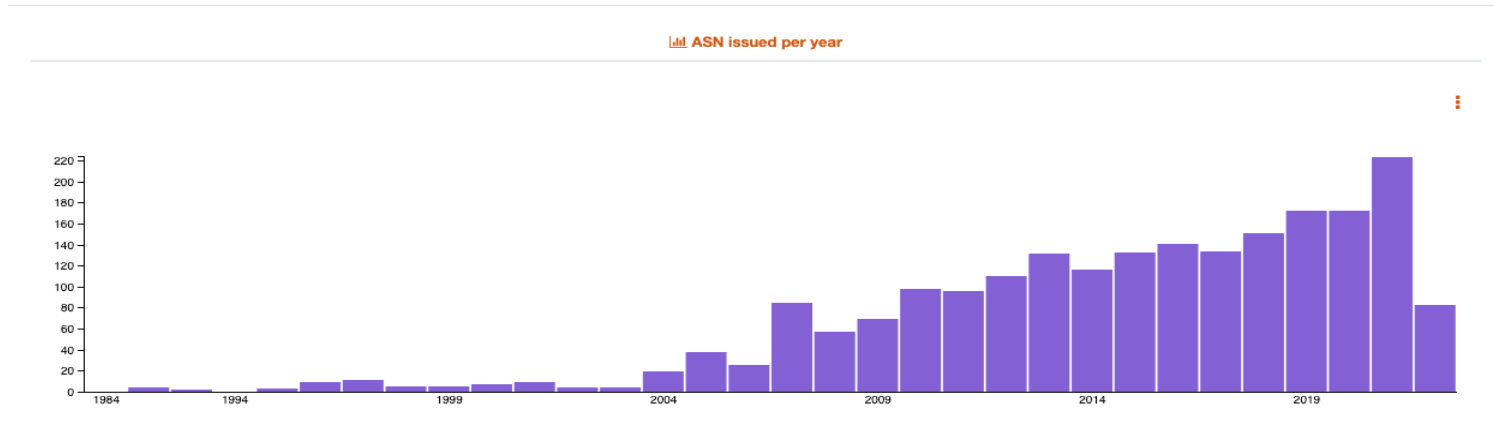
Becoming a Resource Member

- Eligibility: <https://afrinic.net/become-member#eligibility>
- Understand Policies: <https://afrinic.net/policy>
- Fees: <https://afrinic.net/membership/cost>
- Initiate Membership Requests: <https://nmrp.afrinic.net/>

ASN Resources

ASN Assignments over Time

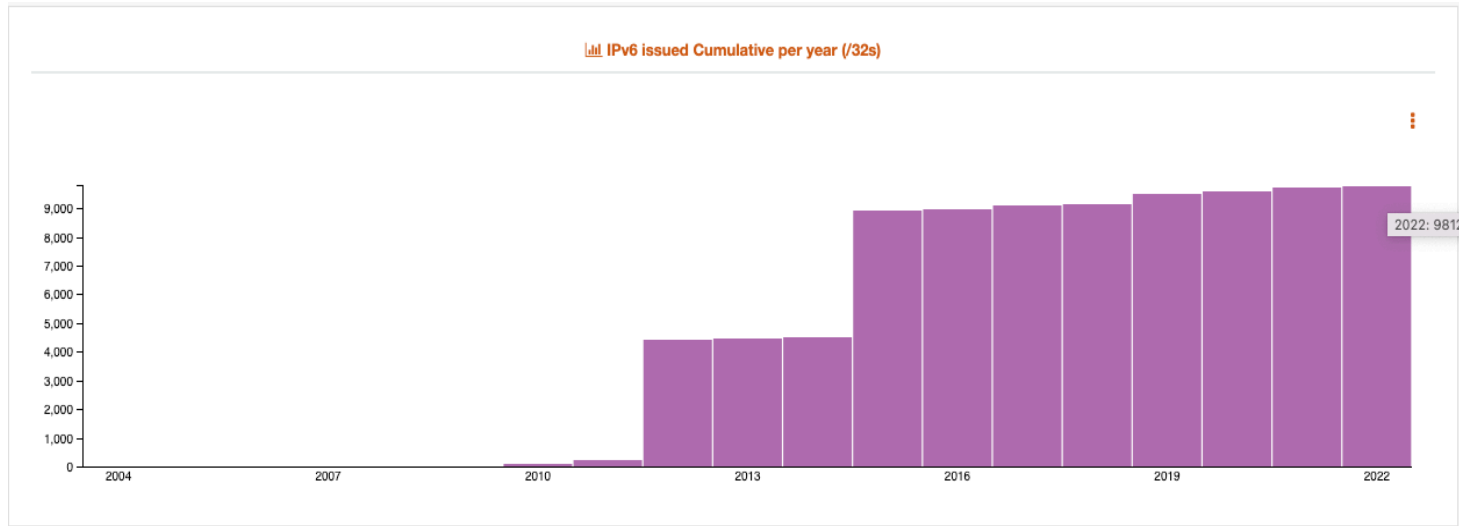
Total ASN issued to date: 2,336



IPv6 Number Resources

IPv6 Allocations over time

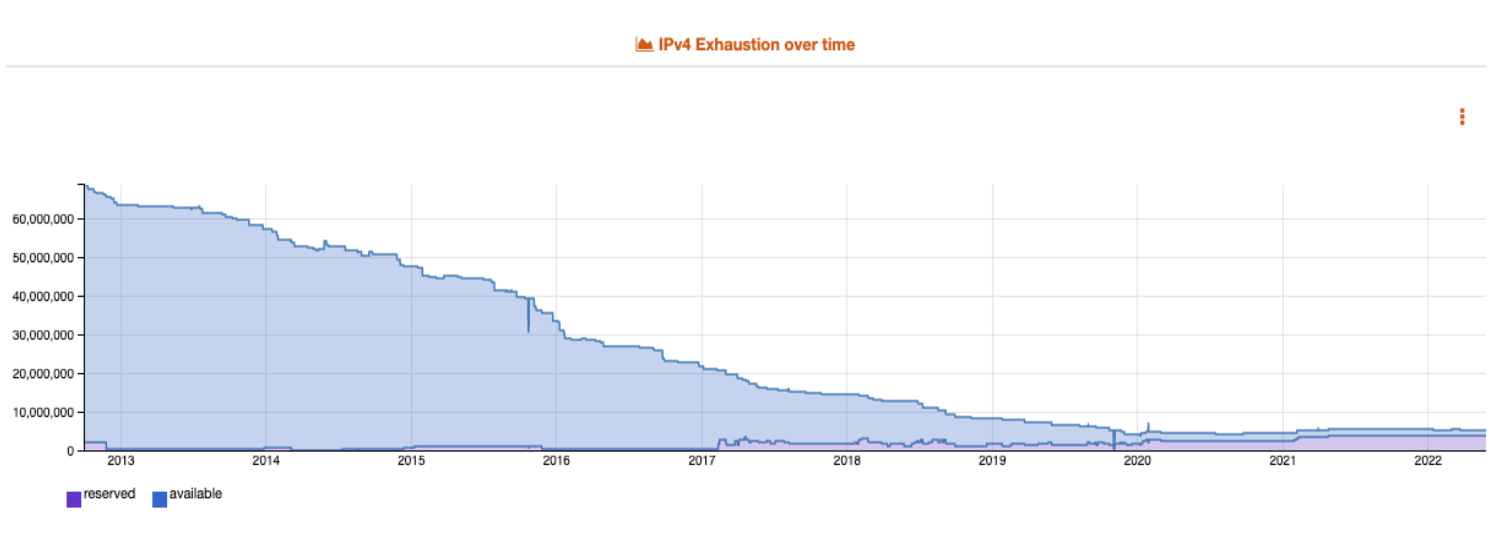
Total IPv6 issued to date: 10,222 /32s



IPv4 Number Resources

IPv4 Depletion Over Time

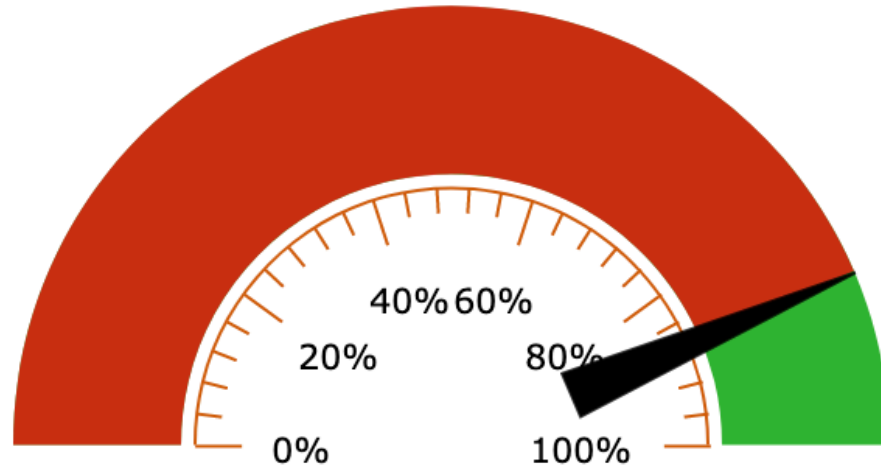
Total IPv4 issued to date: 452,289 /24s



IPv4 @23 July 2023

1,296,128

available /32 left to hit total exhaustion.



87.03872 %

IPv4 exhaustion impact #1

IPv4 addresses
are very rare
today then
expensive

<p>BUY NOW</p> <p>5-Digit ASN RIPE</p> <p>Transfer to: APNIC, ARIN, RIPE, LACNIC</p> <hr/> <p>SALE PRICE \$2,250.00</p> <hr/> <p>ENDS IN 1h 25m 27s</p>	<p>AUCTION</p> <p>/24 ARIN</p> <p>Transfer to: RIPE, APNIC, ARIN, LACNIC</p> <hr/> <p>OPENING BID \$10,112.00 \$/ADDRESS \$39.50</p> <hr/> <p>ENDS IN 2h 4m 40s BIDS 0</p>	<p>BUY NOW</p> <p>/24 ARIN</p> <p>Transfer to: RIPE, APNIC, ARIN, LACNIC</p> <hr/> <p>SALE PRICE \$10,240.00 \$/ADDRESS \$40.00</p> <hr/> <p>ENDS IN 2h 10m 22s</p>	<p>BUY NOW</p> <p>/24 RIPE</p> <p>Transfer to: RIPE, APNIC, ARIN, LACNIC</p> <hr/> <p>SALE PRICE \$12,800.00 \$/ADDRESS \$50.00</p> <hr/> <p>ENDS IN 2h 13m 35s</p>
<p>AUCTION</p> <p>/23 APNIC</p> <p>Transfer to: RIPE, APNIC, ARIN, LACNIC</p> <hr/> <p>OPENING BID \$19,968.00 \$/ADDRESS \$39.00</p> <hr/> <p>ENDS IN 2h 15m 8s BIDS 0</p>	<p>BUY NOW</p> <p>/22 ARIN</p> <p>Transfer to: RIPE, APNIC, ARIN, LACNIC</p> <hr/> <p>SALE PRICE \$41,984.00 \$/ADDRESS \$41.00</p> <hr/> <p>ENDS IN 2h 27m 30s</p>	<p>BUY NOW</p> <p>/22 ARIN</p> <p>Transfer to: RIPE, APNIC, ARIN, LACNIC</p> <hr/> <p>SALE PRICE \$44,032.00 \$/ADDRESS \$43.00</p> <hr/> <p>ENDS IN 2h 30m 33s</p>	<p>AUCTION</p> <p>/20 RIPE</p> <p>Transfer to: RIPE, APNIC, ARIN, LACNIC</p> <hr/> <p>OPENING BID \$143,360.00 \$/ADDRESS \$35.00</p> <hr/> <p>ENDS IN 2h 44m 23s BIDS 0</p>

Implications for RIRs including AFRINIC #1



More fraudulent requests to transfer IPv4 addresses:

- IPv4 addresses have increasing market value as supply depletes



Hijacking of IPv4 addresses & ASNs:

- *Fraudulent WHOIS changes; Target dormant/out of date records*
- *Submit falsified documents (e.g. passports)*
- *Set up shell companies*



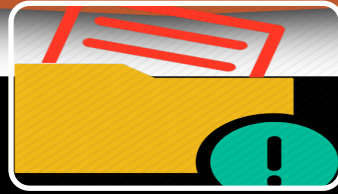
Route Hijacking:

- *Unauthorized use of abandoned/un-routed IPv4 addresses*

Implications for RIRs including AFRINIC #2



Leasing/buying/selling of IPv4 address space (outside of registry system)



People not validating their contact information in Whois



Carrier Grade NAT
Difficult to identify individual subscribers



AFRINIC Update

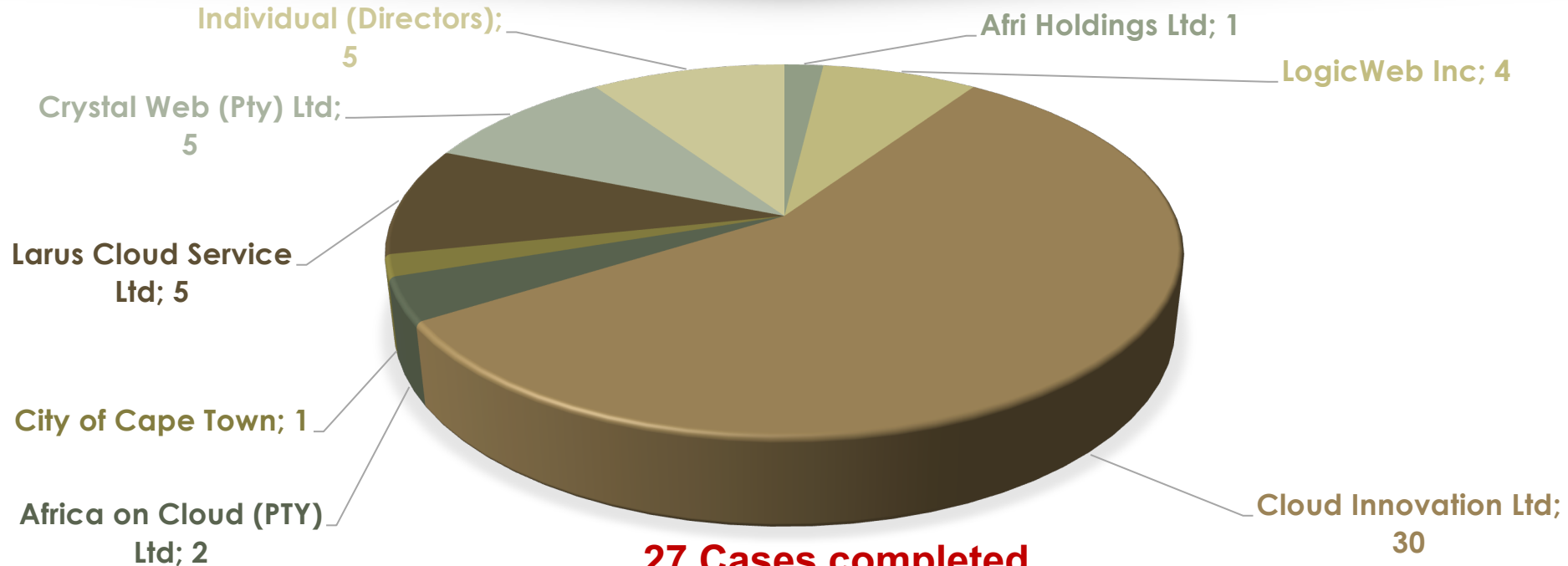
- Court cases
- Current status

55 Court Cases Outline: Why are different organisations suing AFRINIC ?

- AFRINIC Reclaimed misappropriated IP resources
 - AFRINIC informed a resource member of Breach of Registration Service Agreement
 - AFRINIC to Resource transfer policy
 - Defamation
 - Contempt of court
 - Injunctions (governance related)
 - applications to get a quorate board
-

53 court cases have been filed against AFRINIC

2 court cases initiated by AFRINIC against Cloud Innovation



27 Cases completed

All the ongoing cases (except individuals) are resisted

<https://afrinic.net/court-cases>

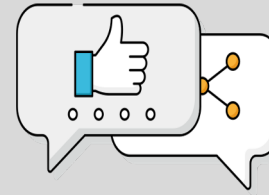
AFRINIC current status

- No quorate Board of Directors
 - No CEO
 - No approved budget 2023
 - ...but...
 - Internet Number resources are still distributed
 - Critical services are still available to the Internet community
 - Some initiatives are still carried out
-

What can you do to help?



**Rely on trusted
sources
of information**



**Engage your
peers with
accurate facts**

THANK
YOU!



Questions?



[twitter.com/ afrinic](https://twitter.com/afrinic)



[flickr.com/ afrinic](https://www.flickr.com/afrinic)



[facebook.com/ afrinic](https://www.facebook.com/afrinic)



[linkedin.com/company/ afrinic](https://www.linkedin.com/company/afrinic)



[youtube.com/ afrinic](https://www.youtube.com/afrinic) media



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