



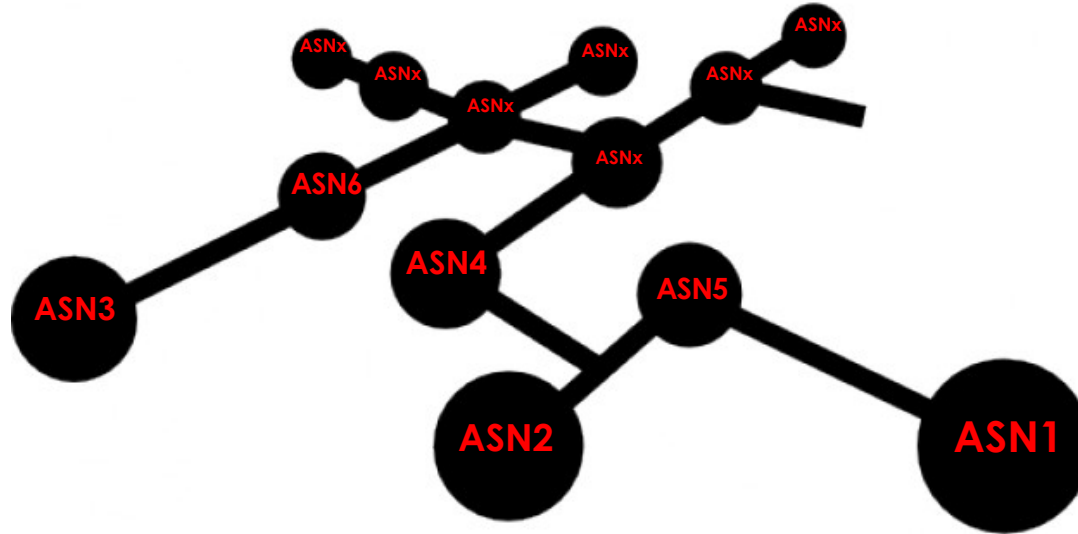
Ethiopia Internet Development Conference 2020

AFRINIC Internet Resources Update

Agenda

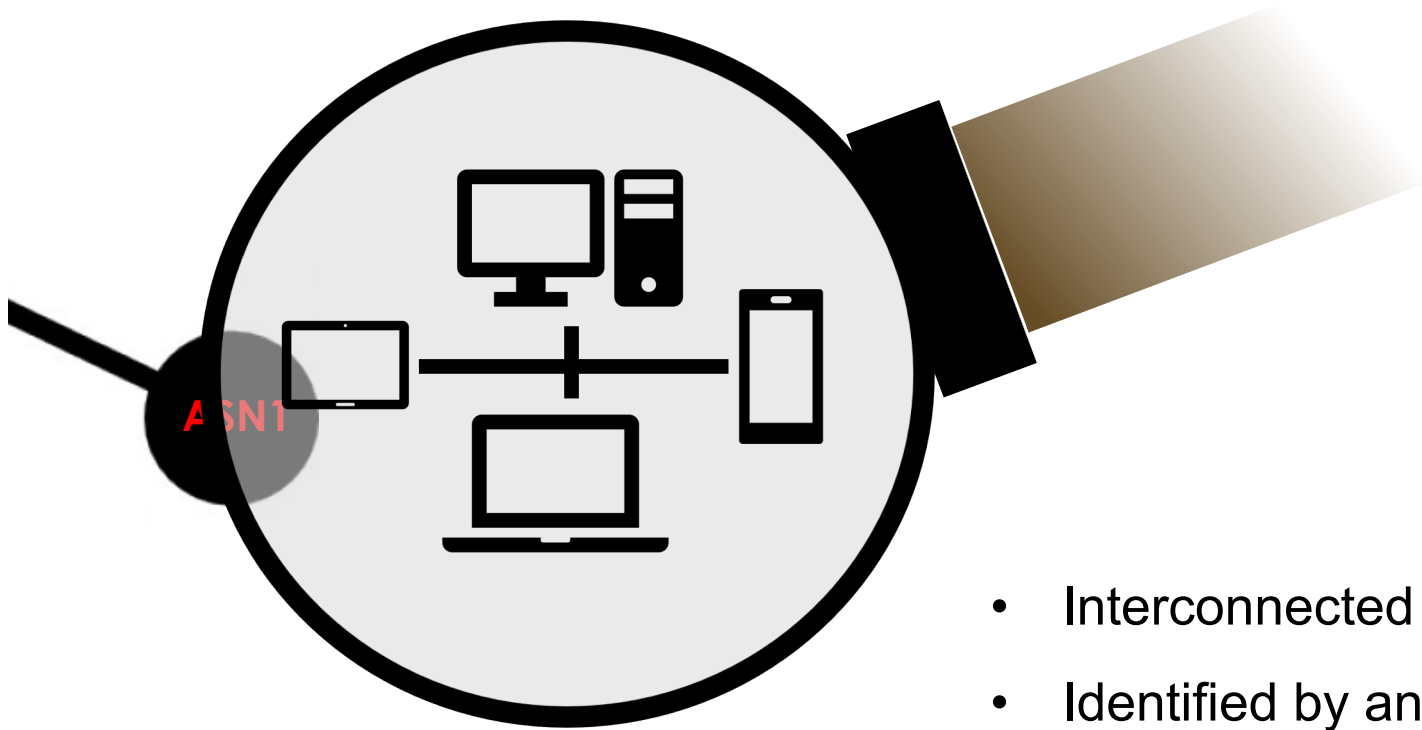
- The use of Internet numbered resources
- RIRs core function
- IPv4 and IPv6 current state at AFRINIC
- Ethiopia in this context of lack of IPv4 addresses

Internet



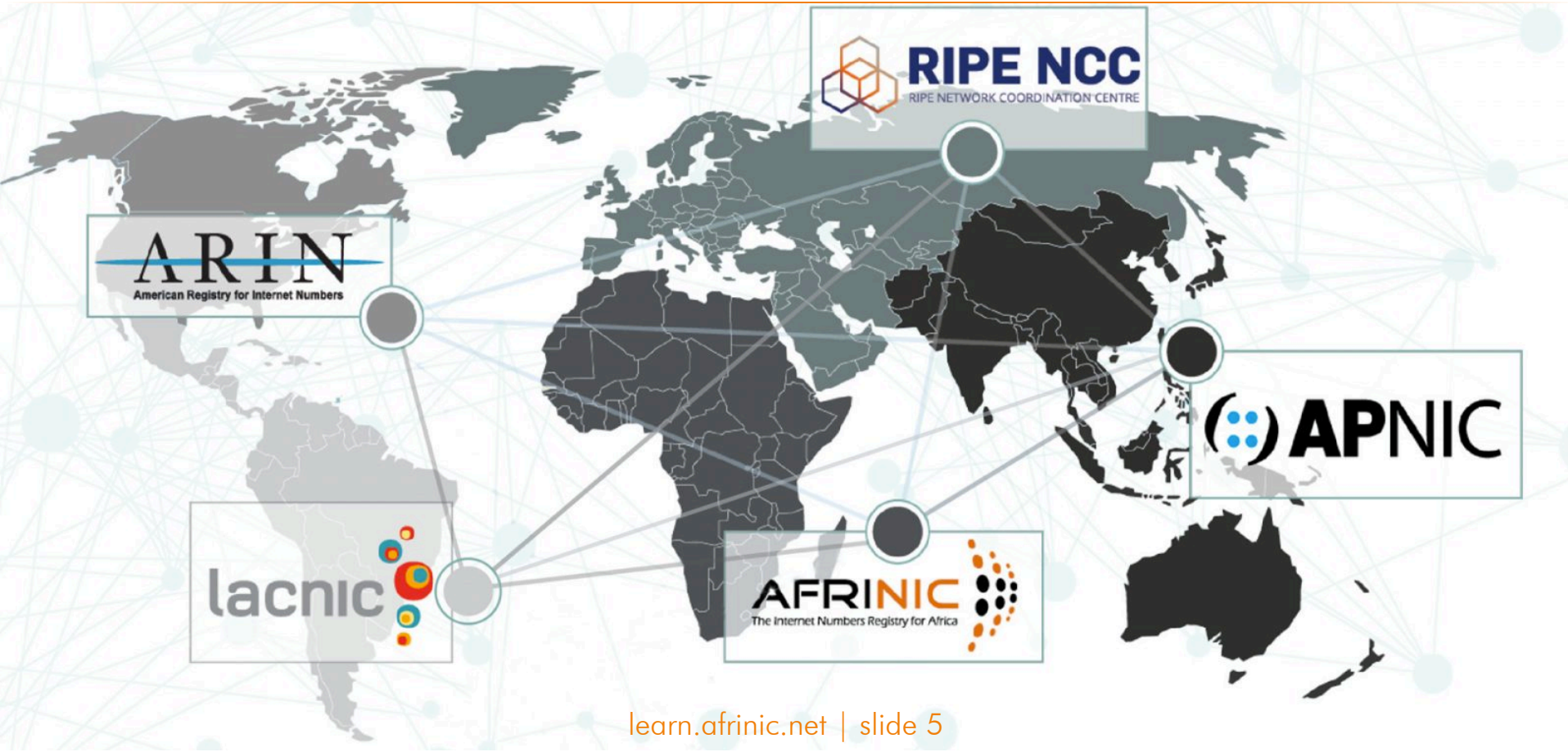
- Network of networks
- Each network is identified by an ASN

What is in a computer network

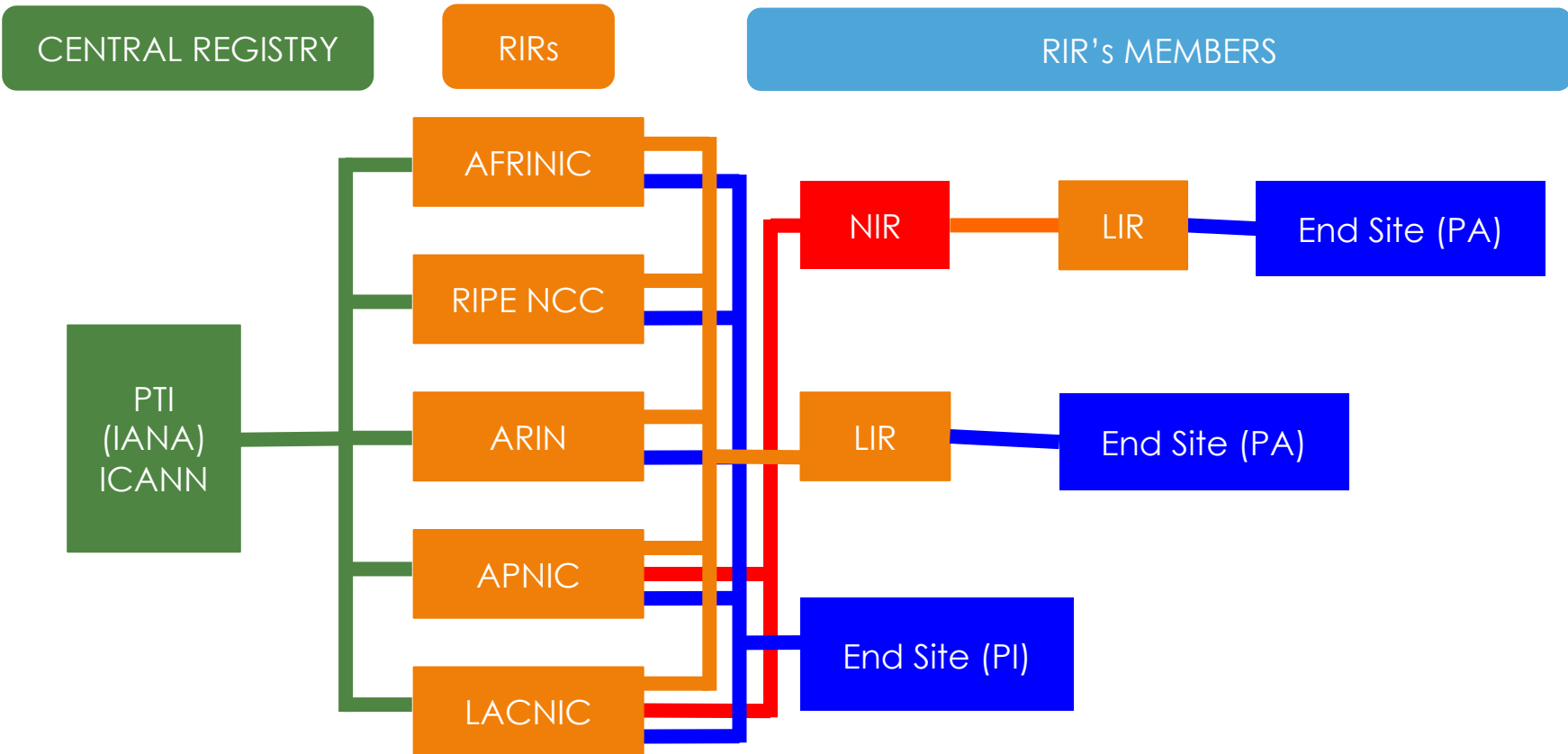


- Interconnected devices
- Identified by an IP address

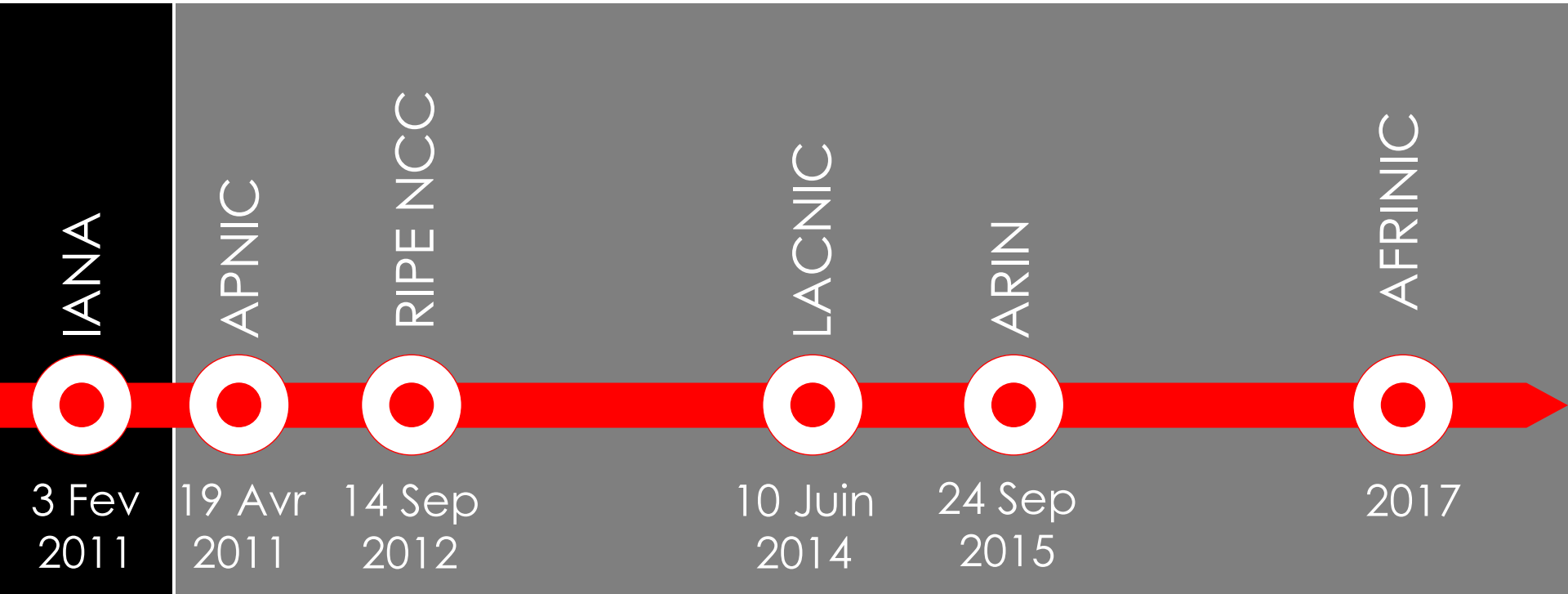
The Regional Internet Registries (RIR)



How are Internet Numbered Resources managed



IPv4 TODAY

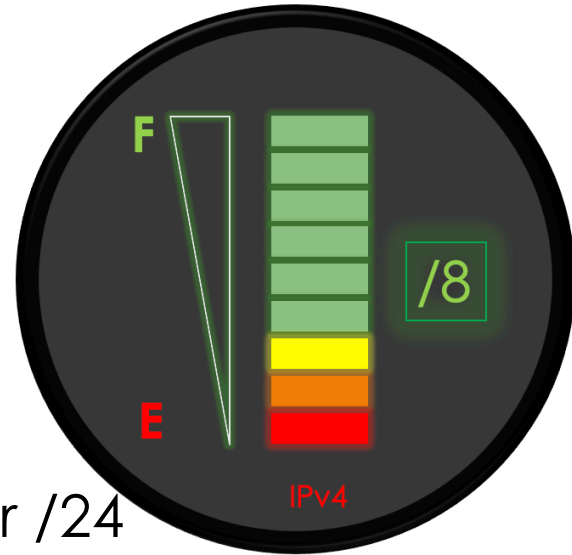


AFRINIC enters IPv4 Exhaustion Phase 1

Since the **03 April 2017** AFRINIC attributes IPv4 addresses from its last /8 (**Soft Landing phase I**)

Soft Landing phase I

- Maximum prefix size /13
- Minimum prefix size LIR /22
- Minimum prefix size End-User /24



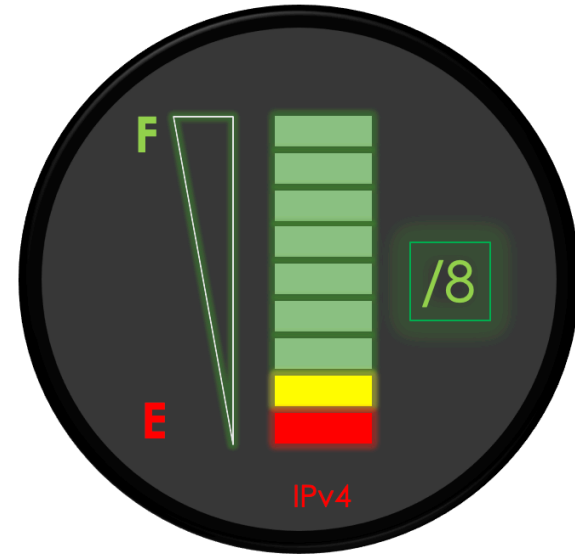
AFRINIC enters IPv4 Exhaustion Phase 2

Since the **13 January 2020** AFRINIC attributes IPv4 addresses from its last /11 (**Soft Landing phase I**)

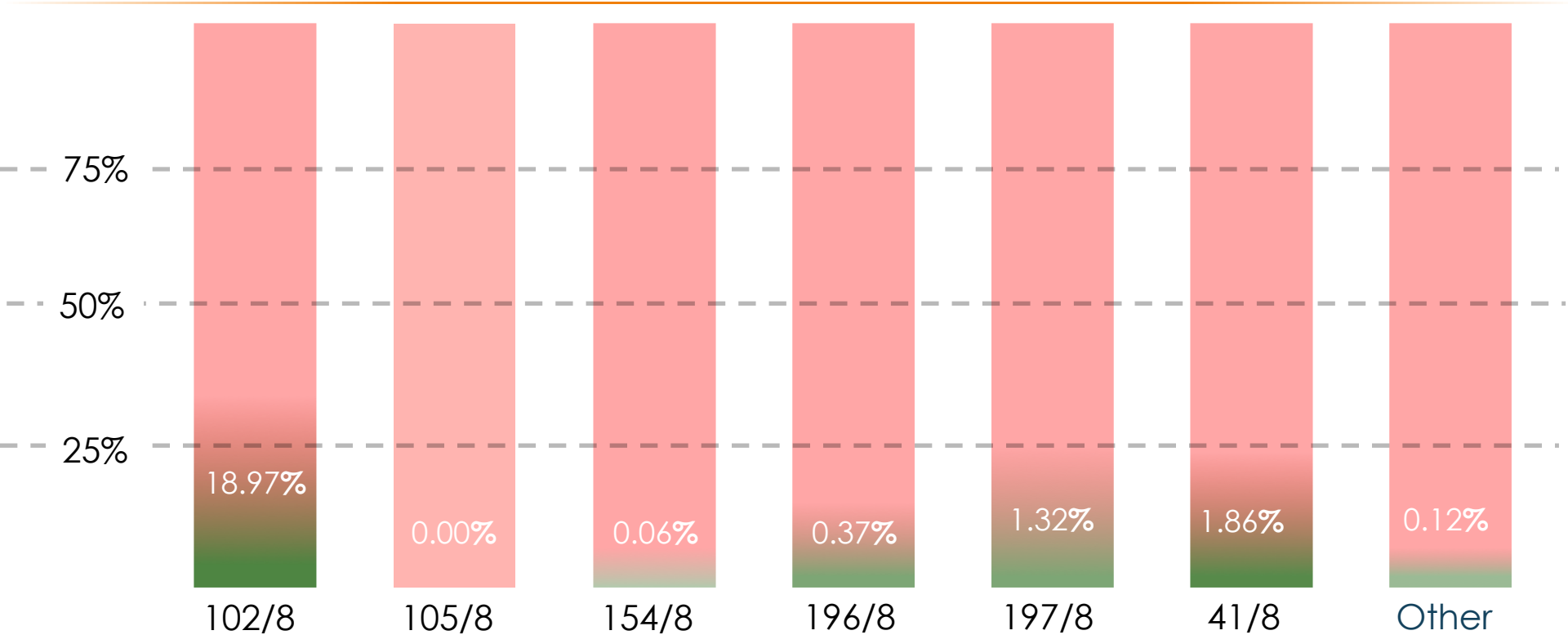


Soft Landing phase II

- Maximum prefix size /22
- Minimum prefix size /24

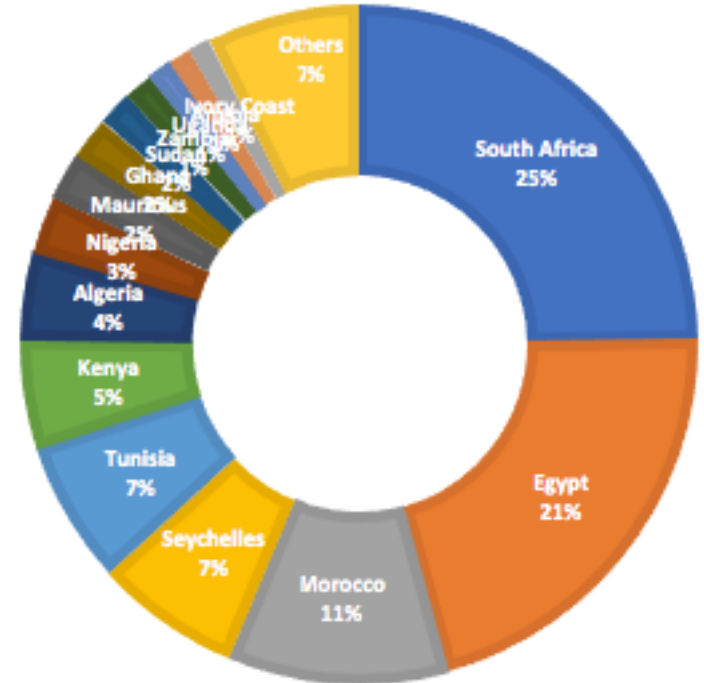


Approx. IPv4 available at AFRINIC



116,024,576 IPv4 issued since 2005

	Country	Total IPv4	Percentage
1	South Africa	28,743,680	24.77%
2	Egypt	24,324,608	20.97%
3	Morocco	12,262,912	10.57%
4	Seychelles	8,006,912	6.90%
5	Tunisia	7,865,344	6.78%
6	Kenya	6,092,544	5.25%
7	Algeria	4,773,632	4.11%
8	Nigeria	3,139,584	2.71%
26	Ethiopia	361,472	0.31%



9598 /32 IPv6 issued

	Country	Total /32	%
1	South Africa	4763	49.62%
2	Egypt	4106	42.78%
3	Malawi	267	2.78%
4	Nigeria	48	0.50%
5	Ivory Coast	41	0.43%
6	Kenya	36	0.38%
7	Tanzania	35	0.36%
	Tunisia	23	0.24%
	Ethiopia	1	0.01%

1831 ASNs issued

	Country	Total ASN	%
1	South Africa	563	30.75%
2	Nigeria	194	10.60%
3	Kenya	111	6.06%
4	Tanzania	79	4.31%
5	Ghana	78	4.26%
6	Egypt	76	4.15%
7	Angola	55	3.00%
	Ethiopia	2	0.11%

Ethiopia today

- **3** AFRINIC registered members
- **361,472** IPv4 addresses (approx. 1 v4 for 291 persons)
- **2** ASNs (2 comp. networks)
- **1** /32 IPv6 addresses bloc

Ethiopia tomorrow

- Over 100 AFRINIC registered members
 - New ISPs
 - New mobiles operators
 - Banks to be multihome
 - Industries to be multihome
 - Universities to be multihome
- Use capacity building opportunity offered by AFstars
- Join the Africa's technical community over AFRINIC mailing lists

Thank you!



Questions?



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