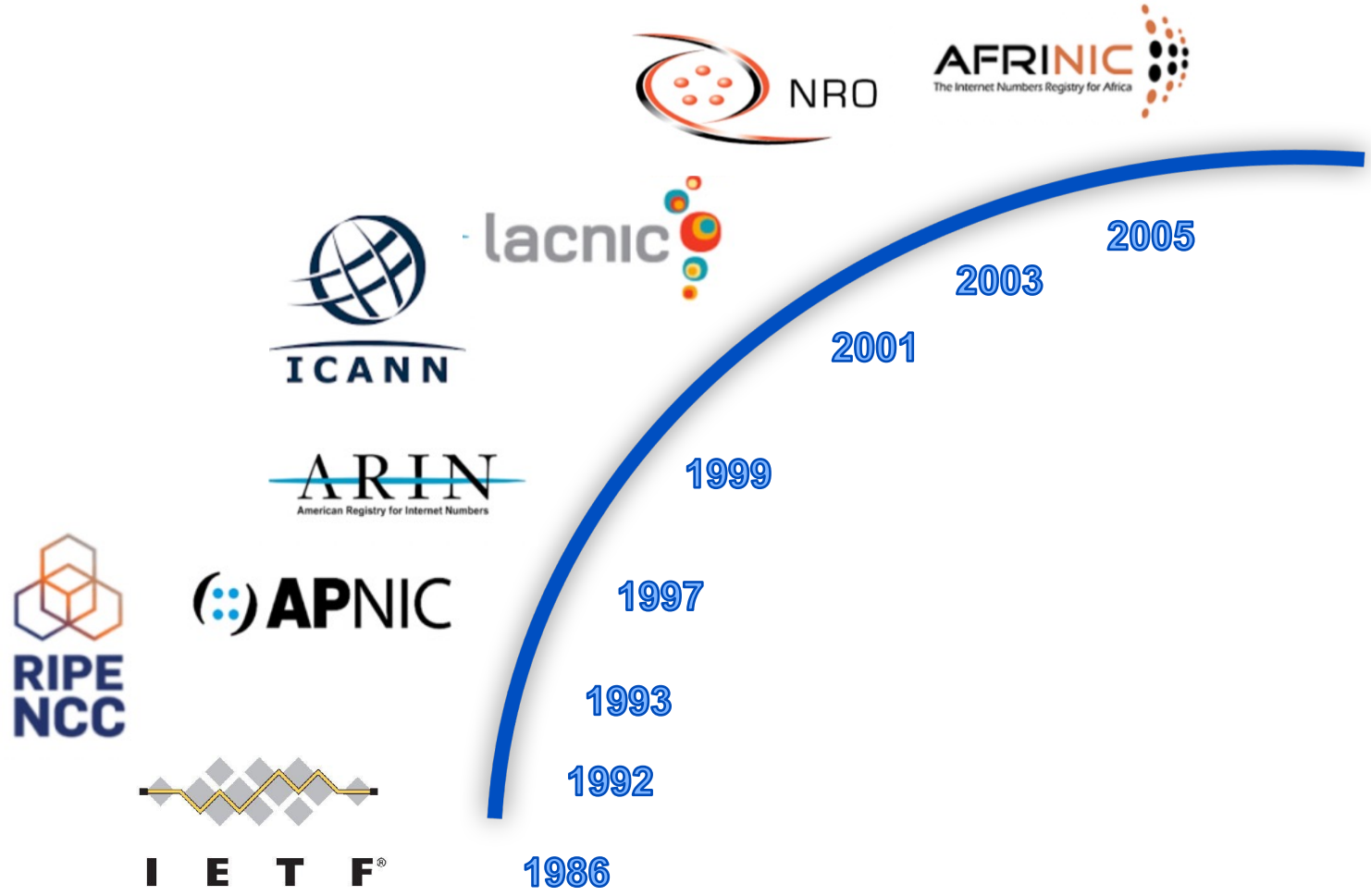
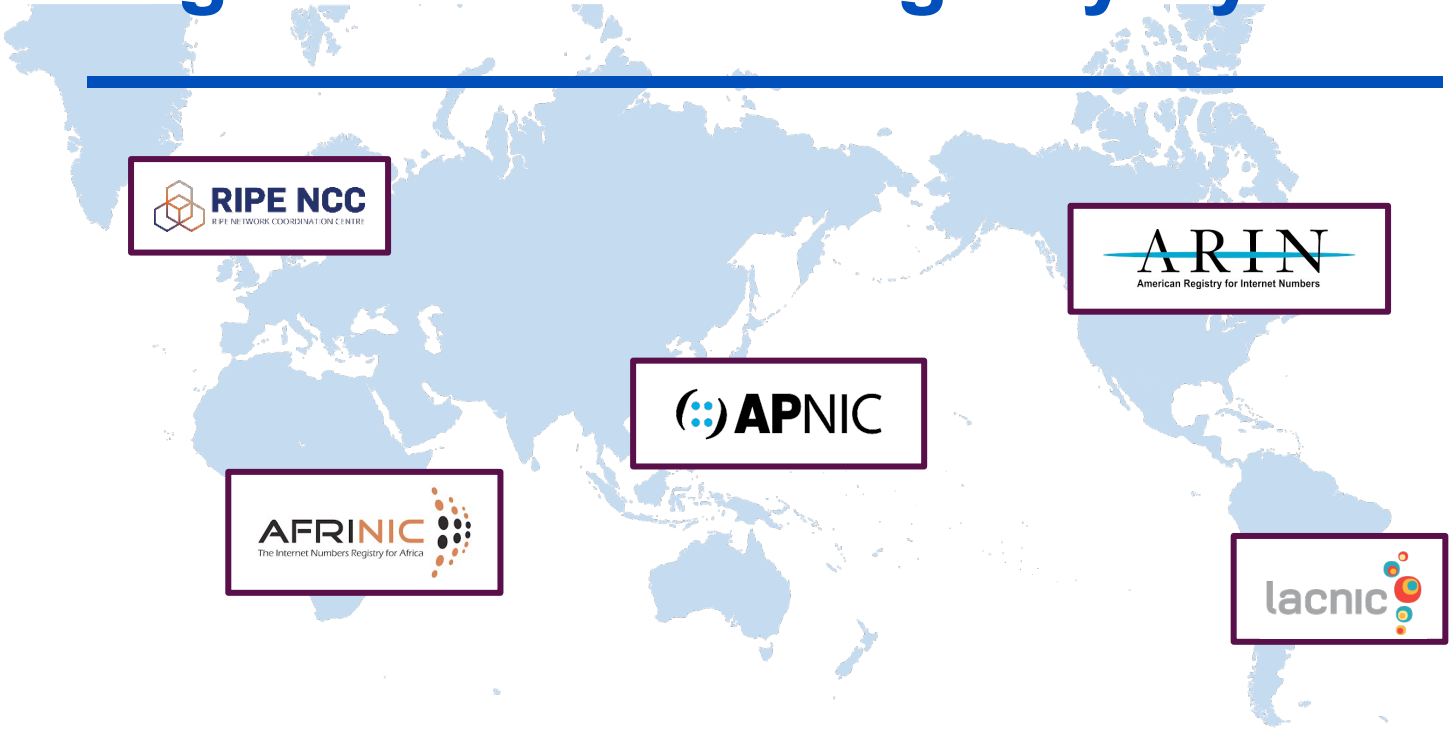
How RIRs work?

Pablo Hinojosa

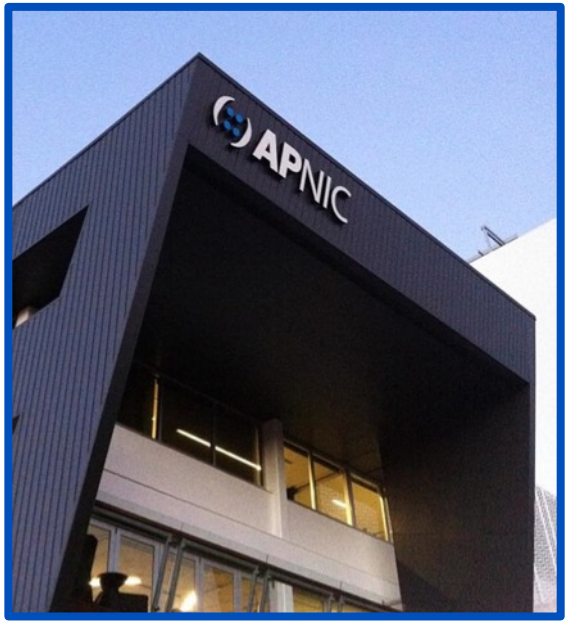
APIGA, 2023


NRO
AFRINIC
The Internet Numbers Registry for Africa
lacnic
ICANN
ARIN
American Registry for Internet Numbers
APNIC
RIPE NCC
I E T F®
2005
2003
2001
1999
1997
1993
1992
1986

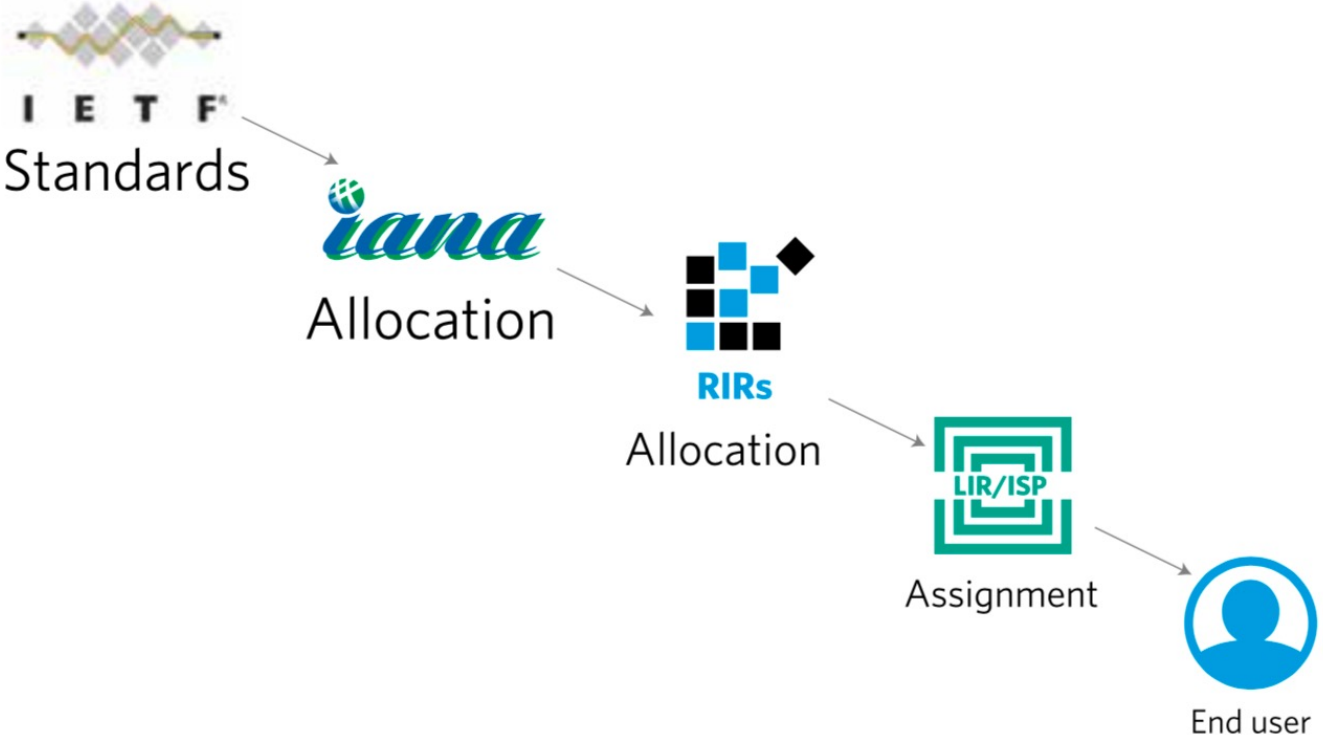
Regional Internet Registry System



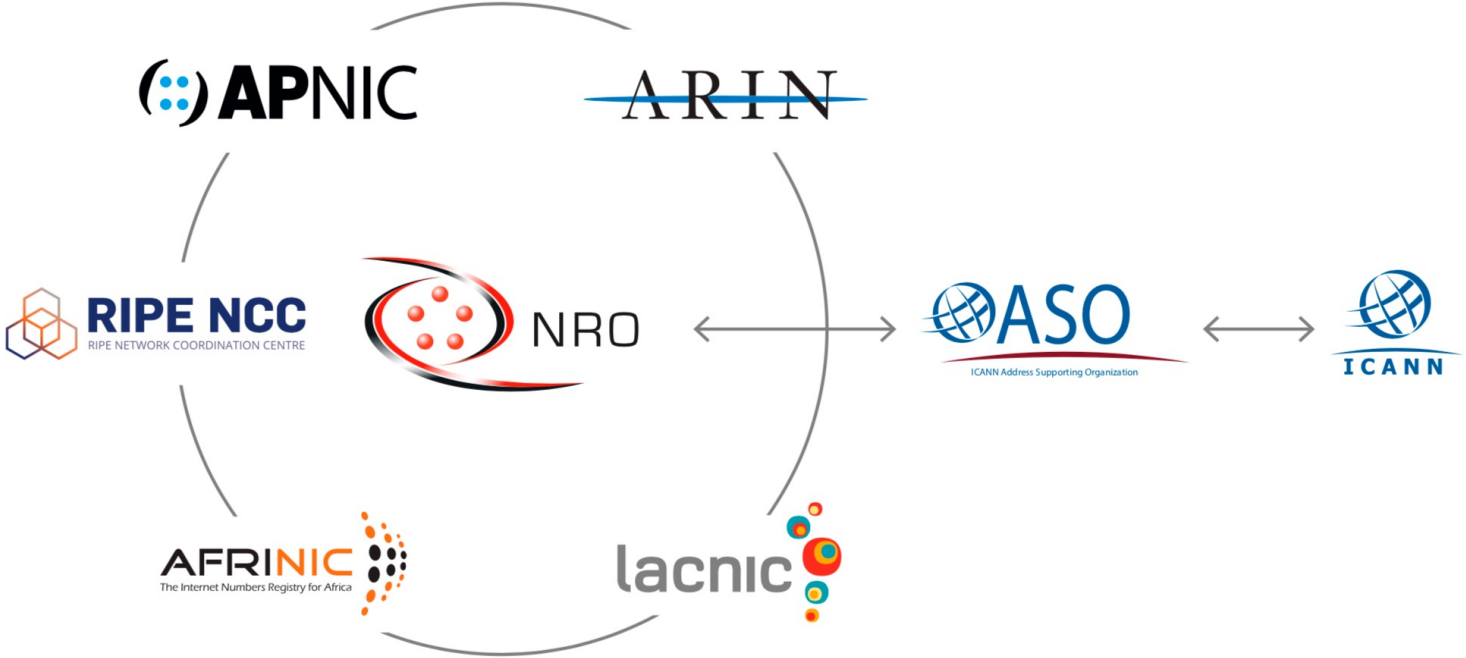
“A global, open, stable and secure Internet that serves the entire Asia Pacific community”



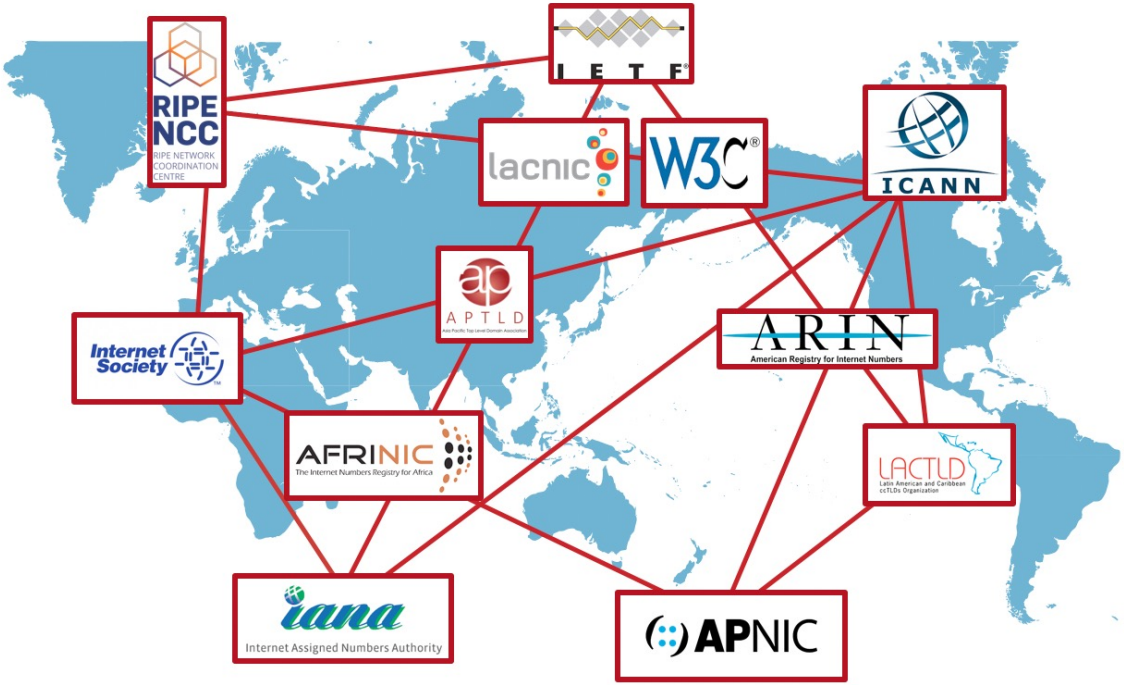
IP Address Allocation

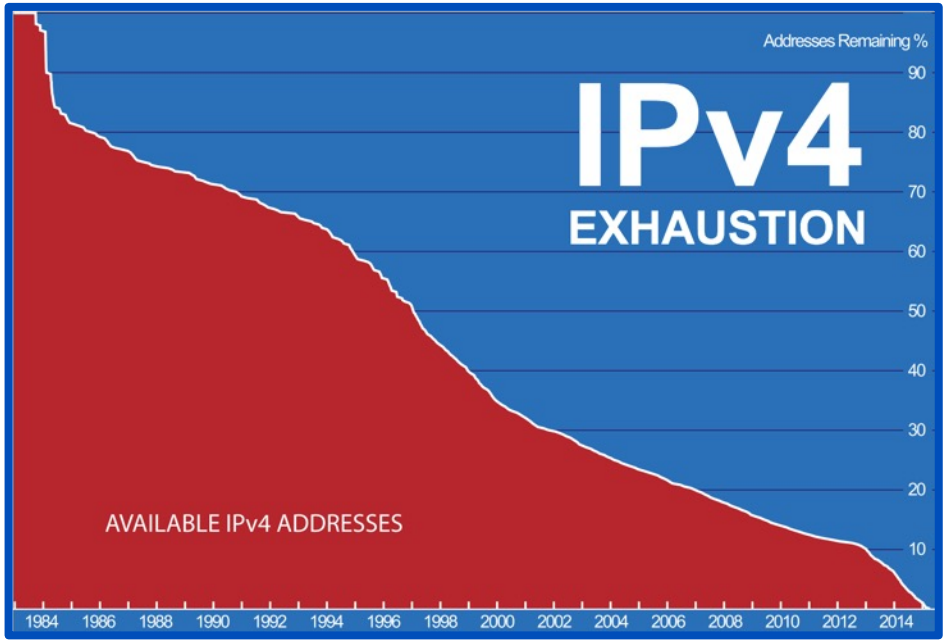


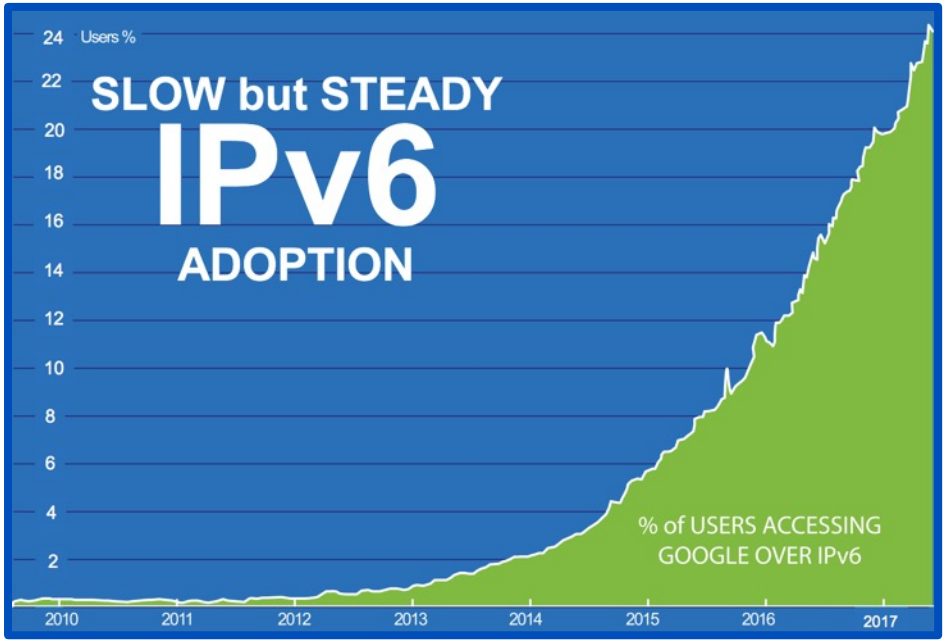
IP address Policymaking



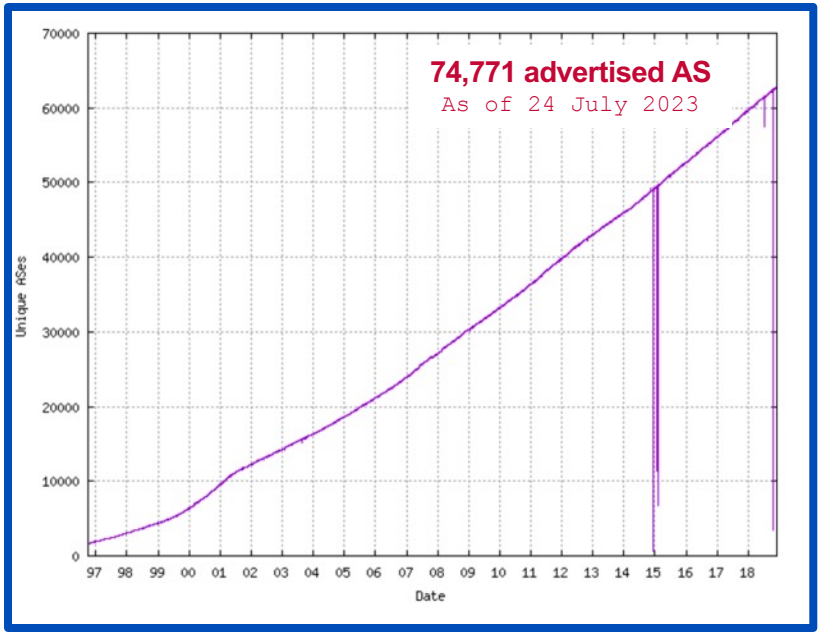
I* ecosystem

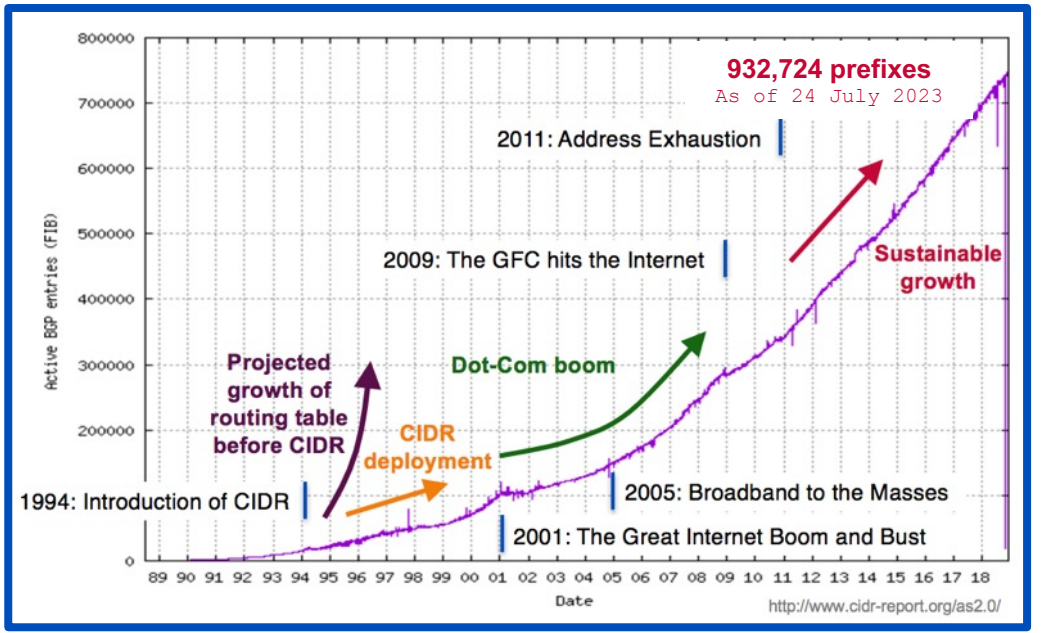

RIPE NCC
RIPE NETWORK COORDINATION CENTRE
IETF
lacnic
W3C
ICANN
APTLD
Internet Society
ARIN
American Registry for Internet Numbers
AFRINIC
The Internet Numbers Registry for Africa
LACTLD
Latin American and Caribbean ccTLDs Organization
iana
Internet Assigned Numbers Authority
APNIC


Addresses Remaining %
90
80
70
60
50
40
30
20
10
IPv4
EXHAUSTION
AVAILABLE IPv4 ADDRESSES
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014


Users %
24
22
20
18
16
14
12
10
8
6
4
2
SLOW but STEADY
IPv6
ADOPTION
% of USERS ACCESSING
GOOGLE OVER IPv6
2010
2011
2012
2013
2014
2015
2016
2017

BGP Table Size





Thank you!

@lphinojosa