



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

The future of IP addresses

How to ensure your business
is ready for IPv6



RIPE NCC

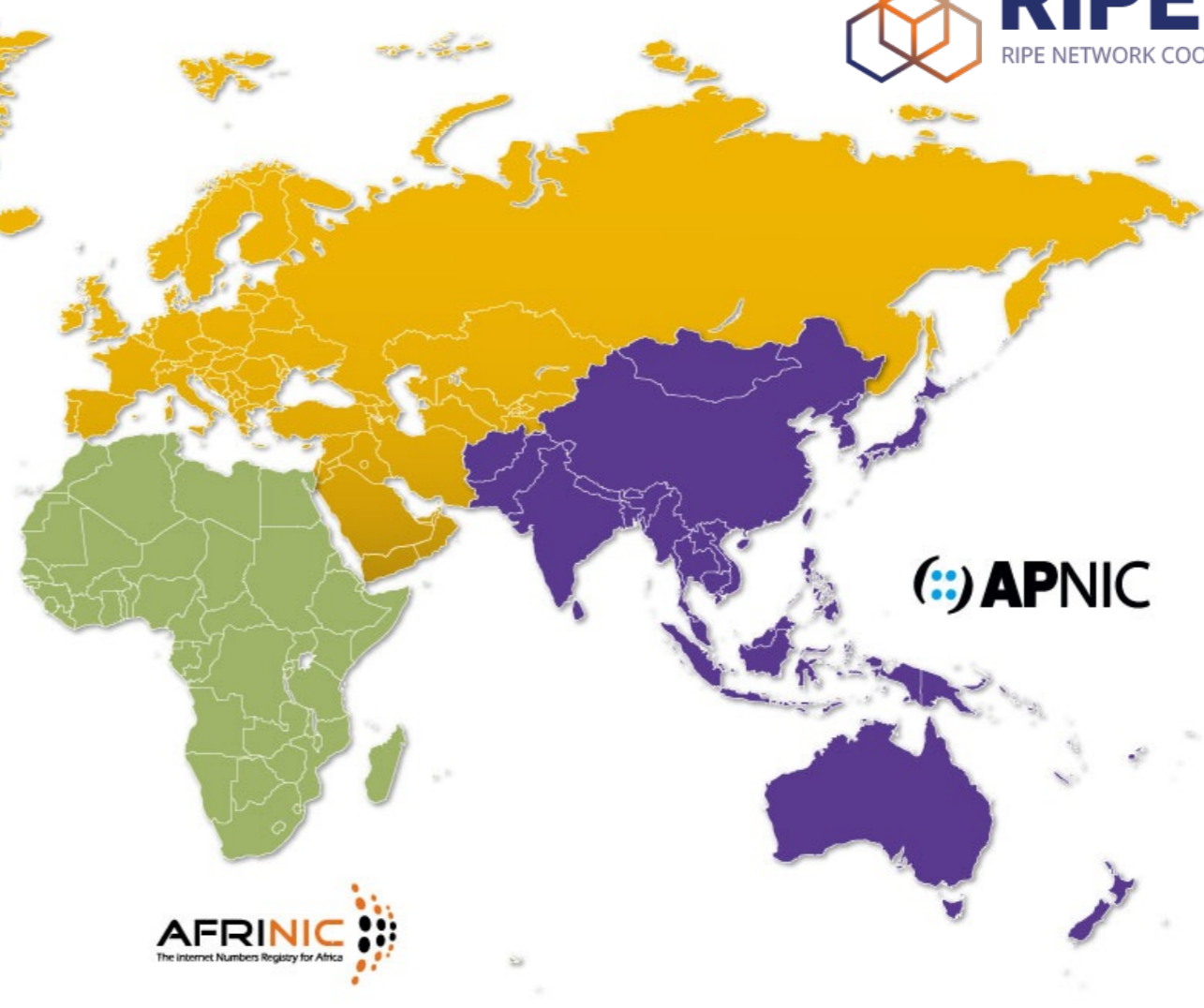
RIPE NETWORK COORDINATION CENTRE

ARIN
American Registry for Internet Numbers



lacnic

 **RIPE NCC**
RIPE NETWORK COORDINATION CENTRE



 **APNIC**

AFRINIC
The Internet Numbers Registry for Africa



- Distribute IP addresses and AS numbers
- Non-for-profit organisation
- Our members are *Local Internet Registries (LIR)*



So... how much IPv4 is left?



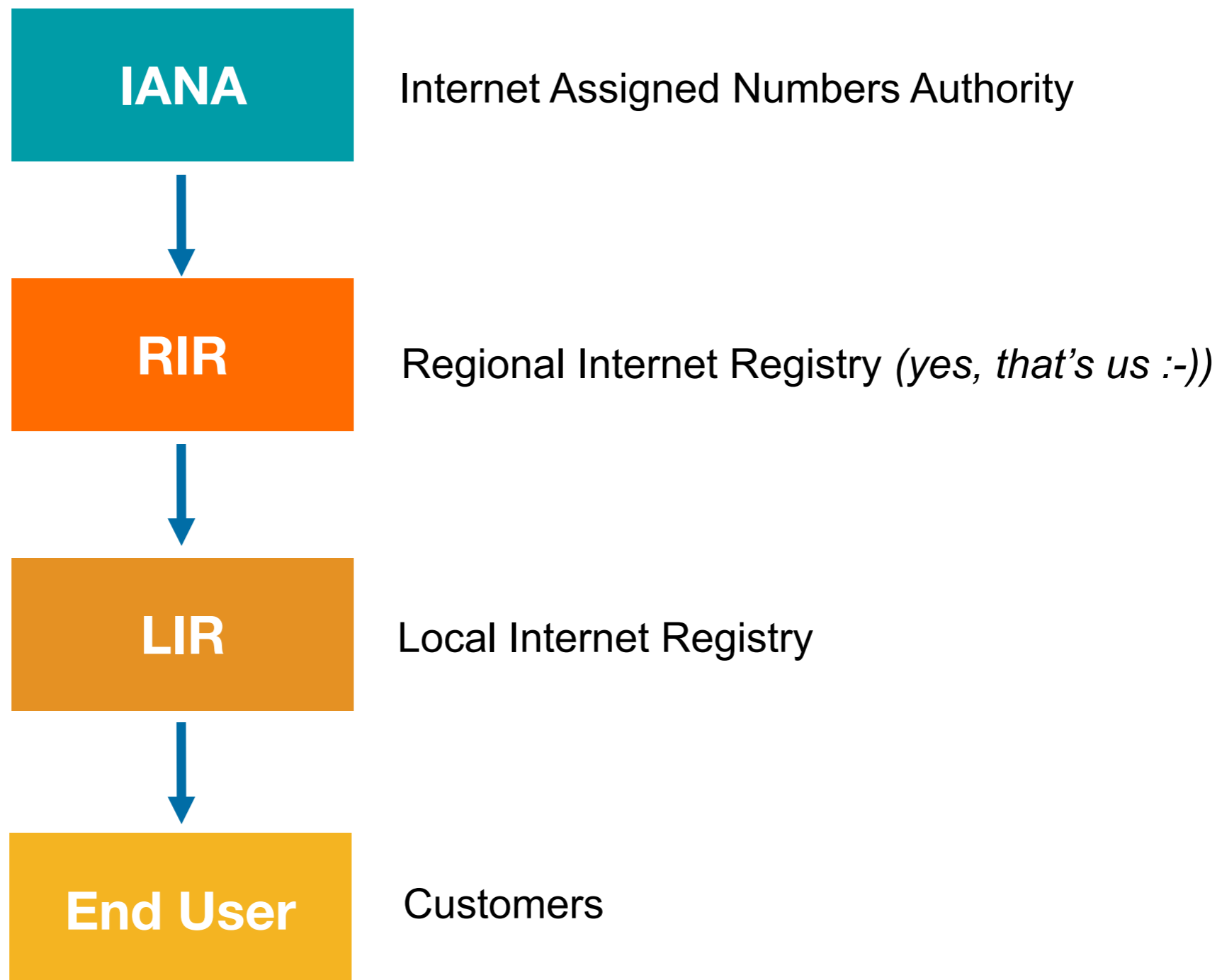


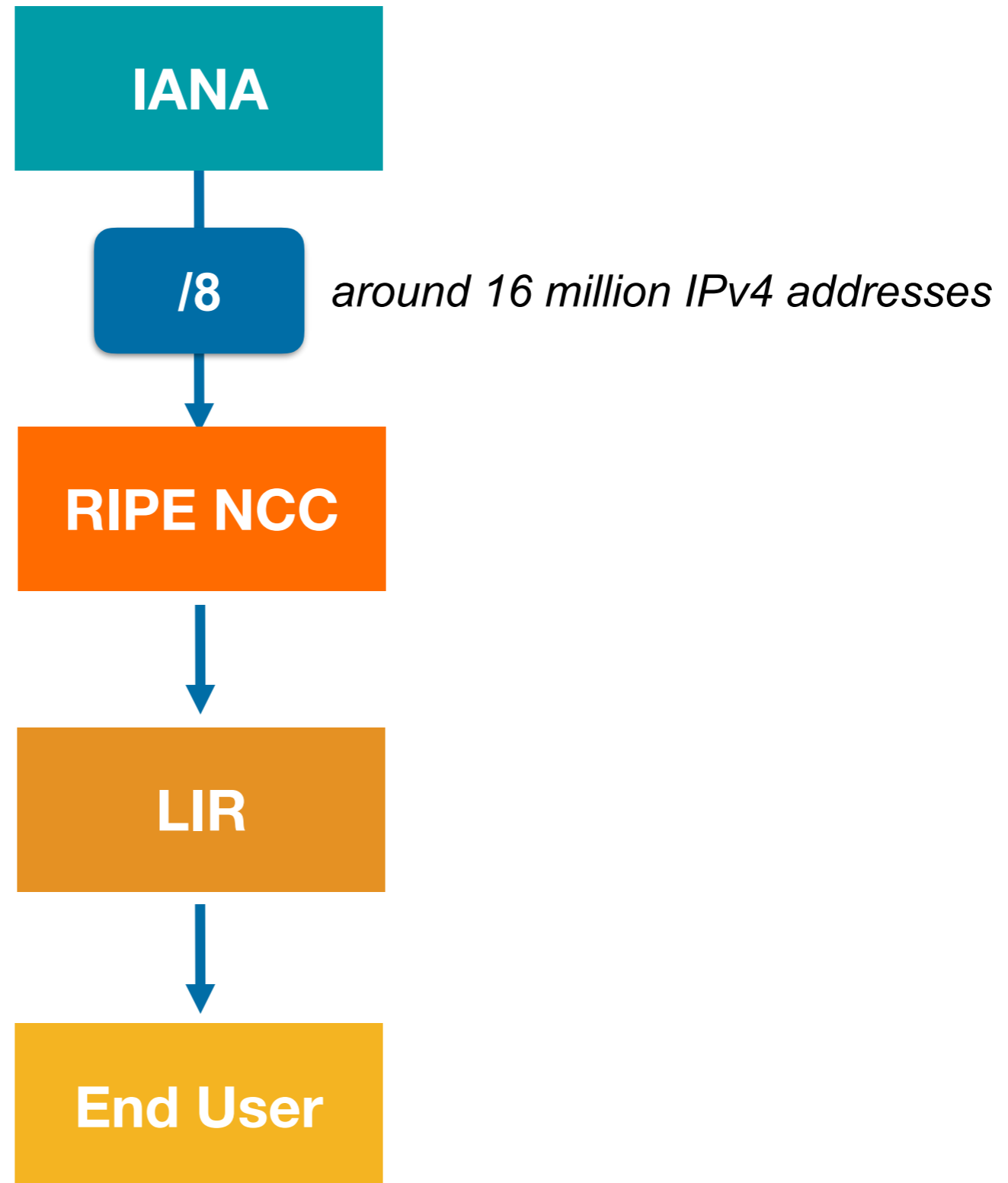
NONE!



What happened to IPv4?



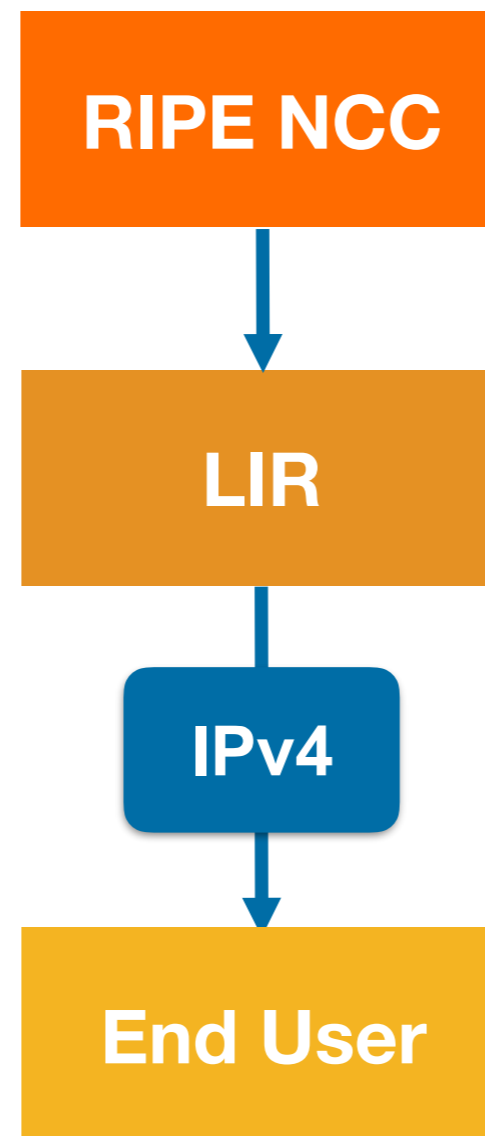






NEEDS-BASED **DISTRIBUTION**

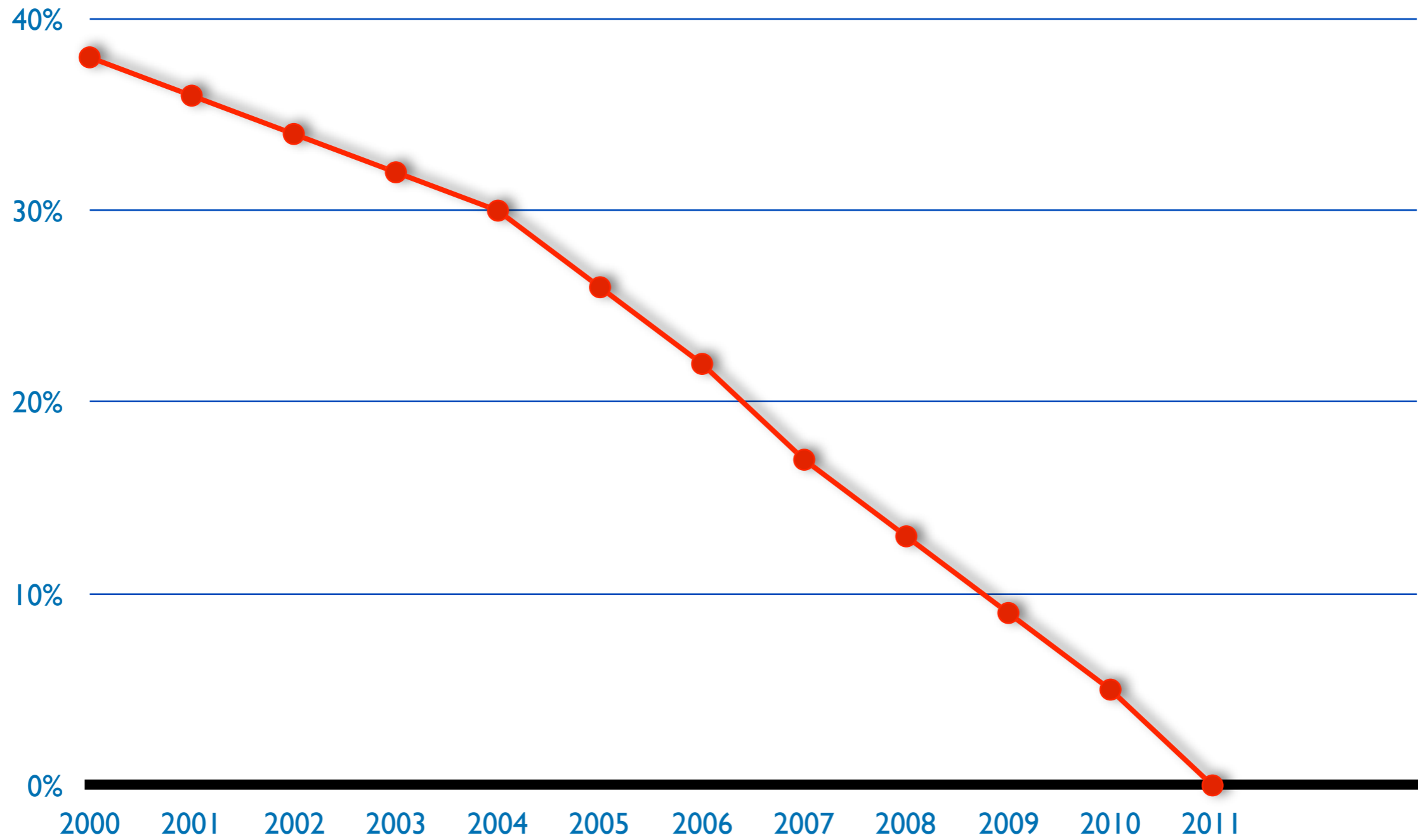






There are *only*
4,294,967,296
IPv4 addresses

IANA IPv4 Pool







RUN OUT FAIRLY



ONE /22 ONLY

I'll just go and buy some...





What about

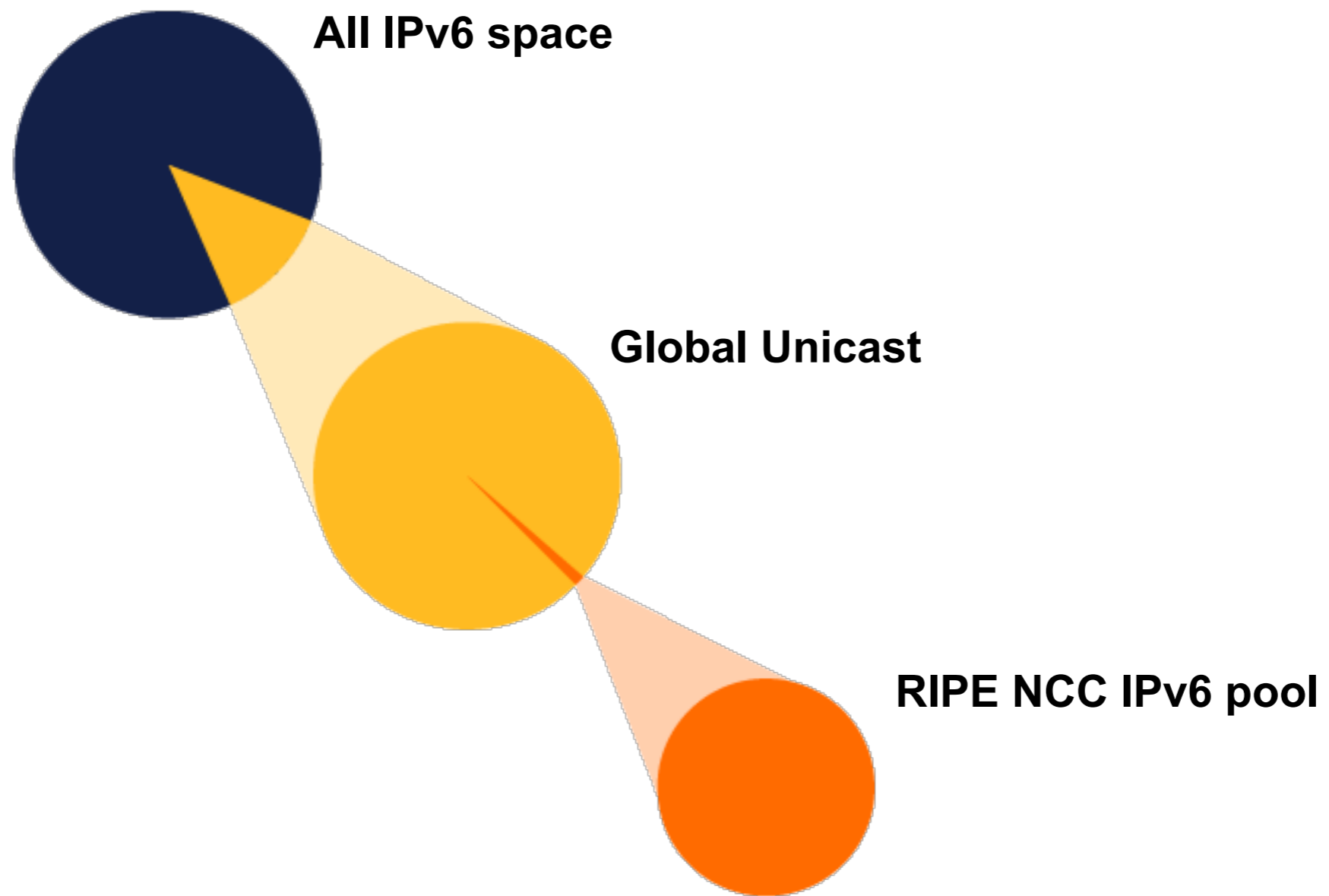
IPv6 ?



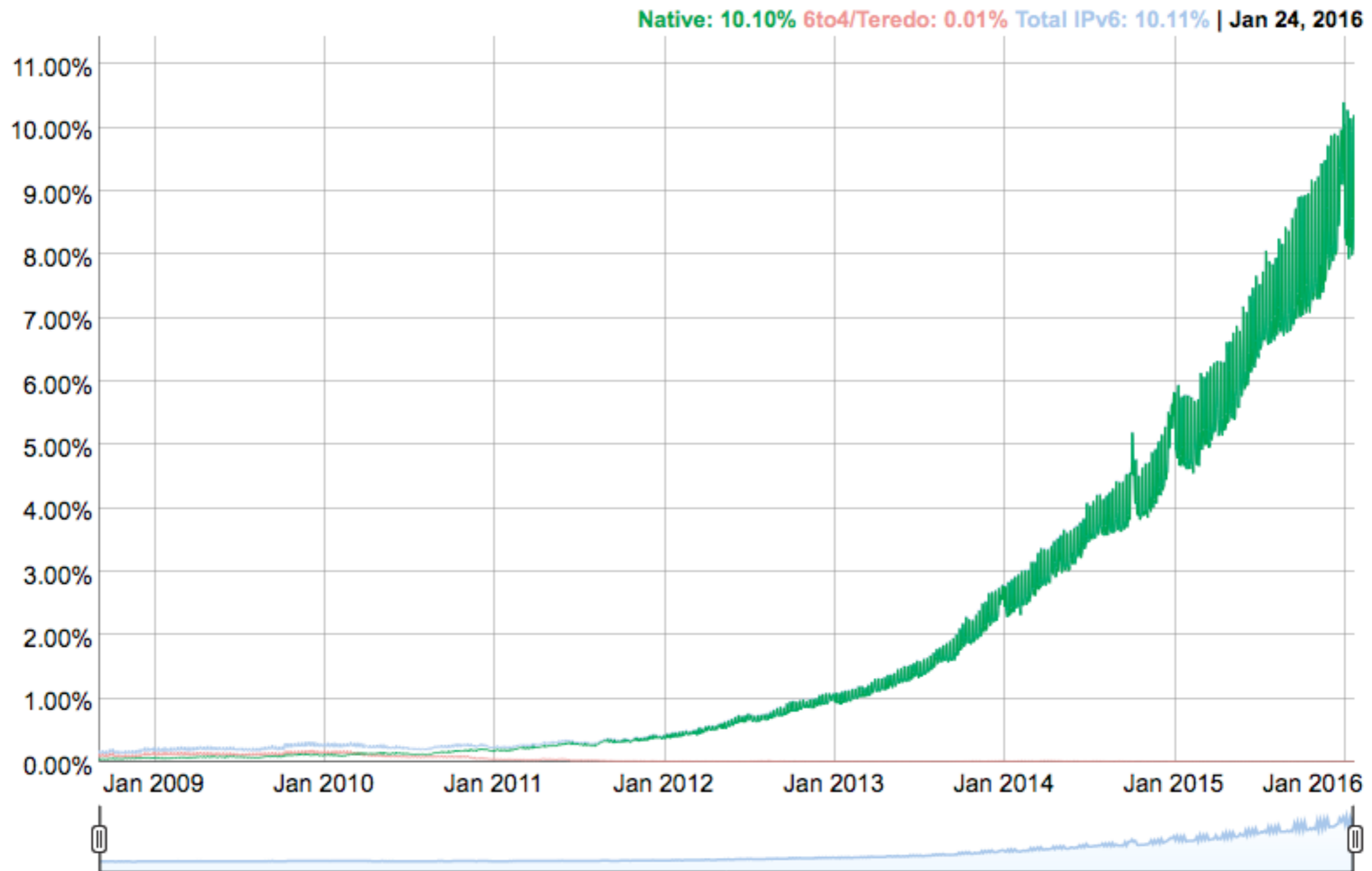
There are ONLY

340,282,366,920,938,463,463,374,607,431,768,211,456

IPv6 addresses



IPv6 adoption

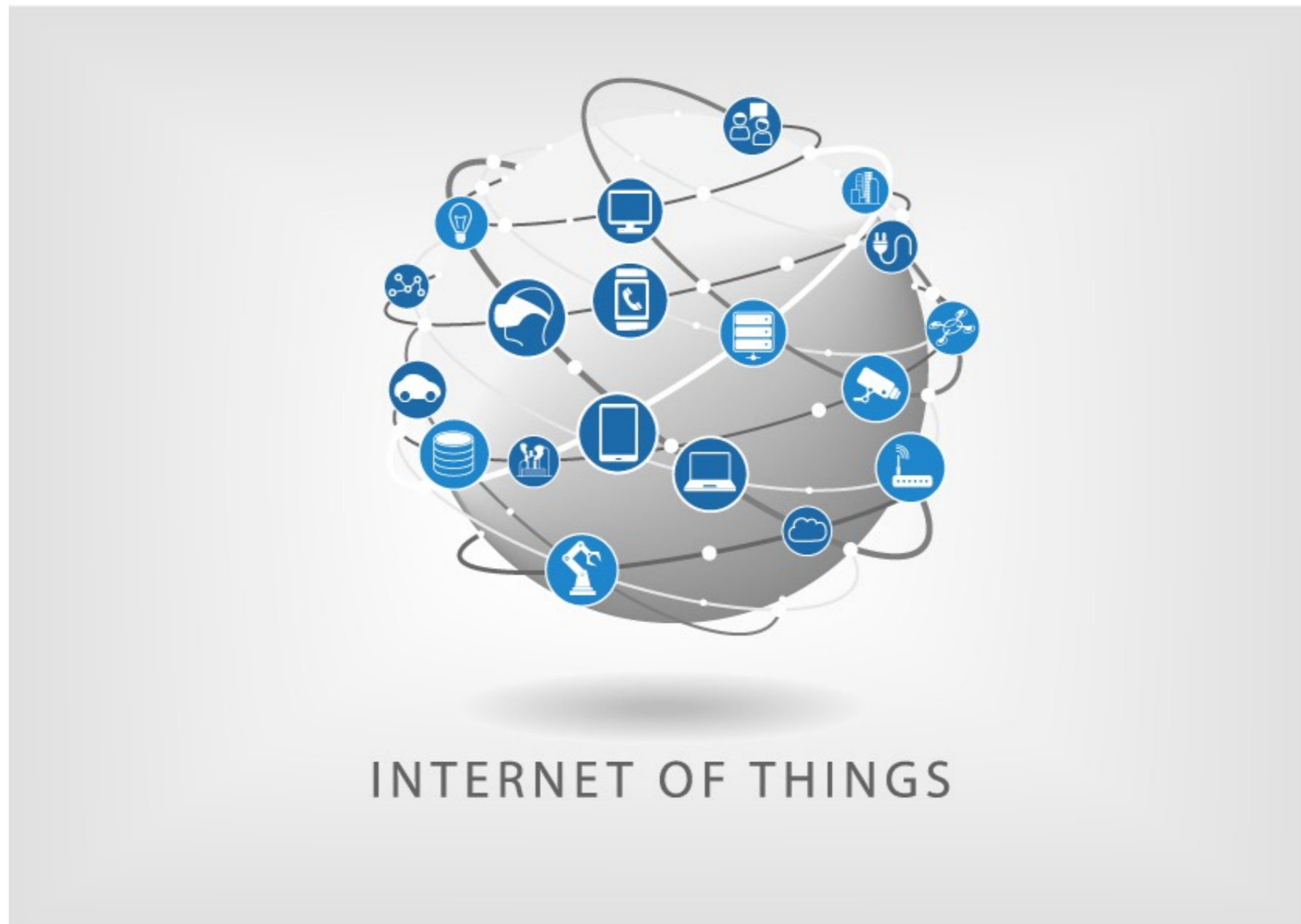


<http://www.google.com/intl/en/ipv6/statistics.html>



Why is
IPv6
important ?





Create an Addressing Plan



Go to www.ripe.net



Search for '*Create an Addressing Plan*'





Grab your IPv6 address space



Create a roadmap

Make an inventory



- Does your equipment support IPv6?
- **IPv6 support** must be a requirement on new purchases
- Check document **Requirements for IPv6 in ICT Equipment (RIPE-554)**



Get it into action!



- Set up a test lab
- Deploy external facing services first

Change mindset



- IPv6 is not a product
- Educate your staff (**everyone!**)



“Will we need IPv6?”



~~**“Will we need IPv6?”**~~



“What we are going to do with all these addresses?...”



Thank you

pedrovaz@ripe.net
@TrainingRIPENCC