



NRO

2001:610:240-0 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
62:109:128 195:048:02:03 193:0:0:202 2001:610:240 193:0:0:203 2001:610:240-0 193:0:0:202  
193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
2001:610:240-0 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
Number Resource Organization



# **INTERNET NUMBER RESOURCE STATUS REPORT**

**As of 31 March 2017**

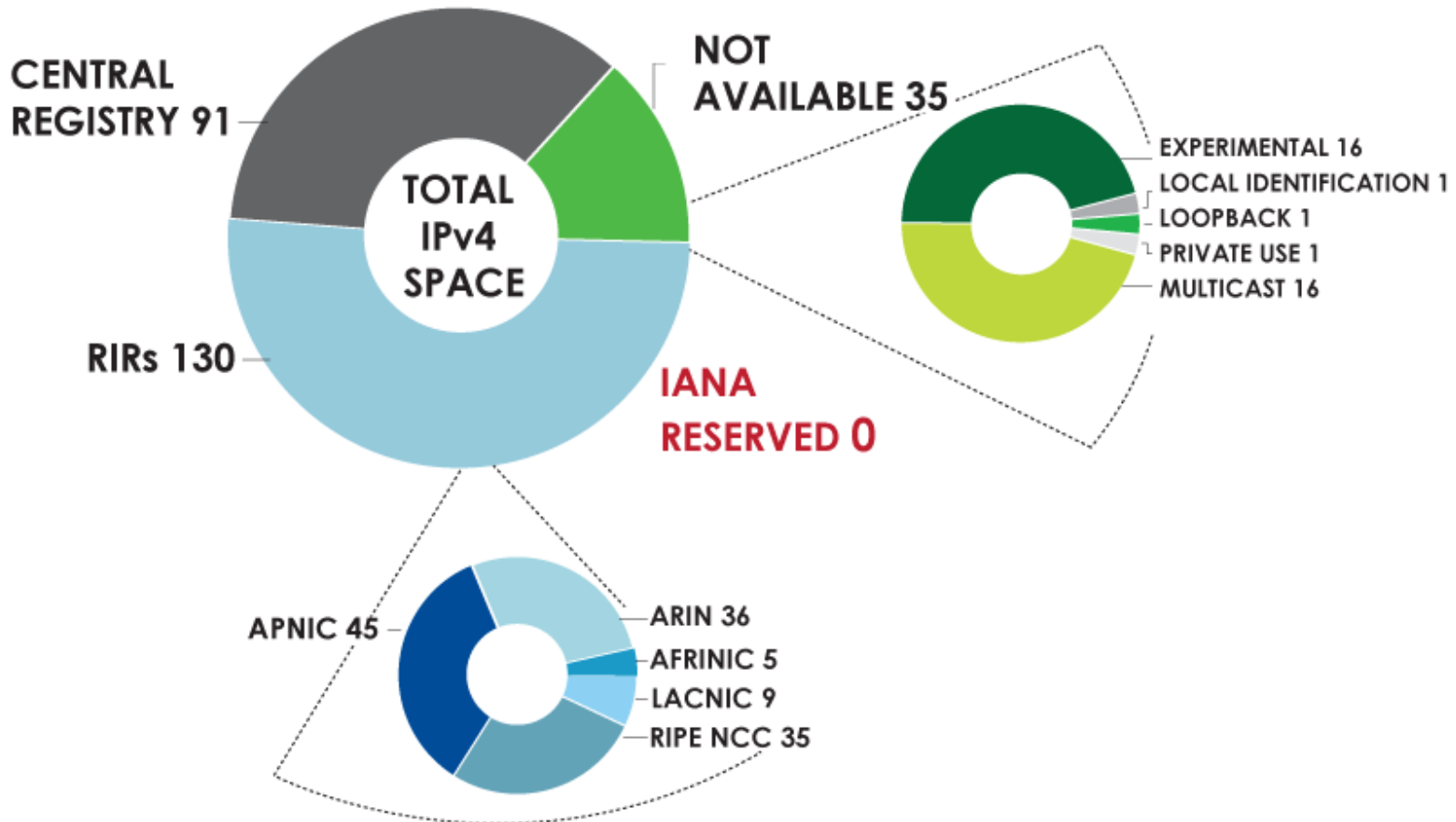
**Prepared by  
Regional Internet Registries  
AFRINIC, APNIC, ARIN, LACNIC and the RIPE NCC**

2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
62:109:128 195:048:02:03 2001:610:240 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
Number Resource Organization

# IPv4 ADDRESS SPACE

What is the status of each of the 256 /8s?

## STATUS OF 256 /8s IPv4 ADDRESS SPACE



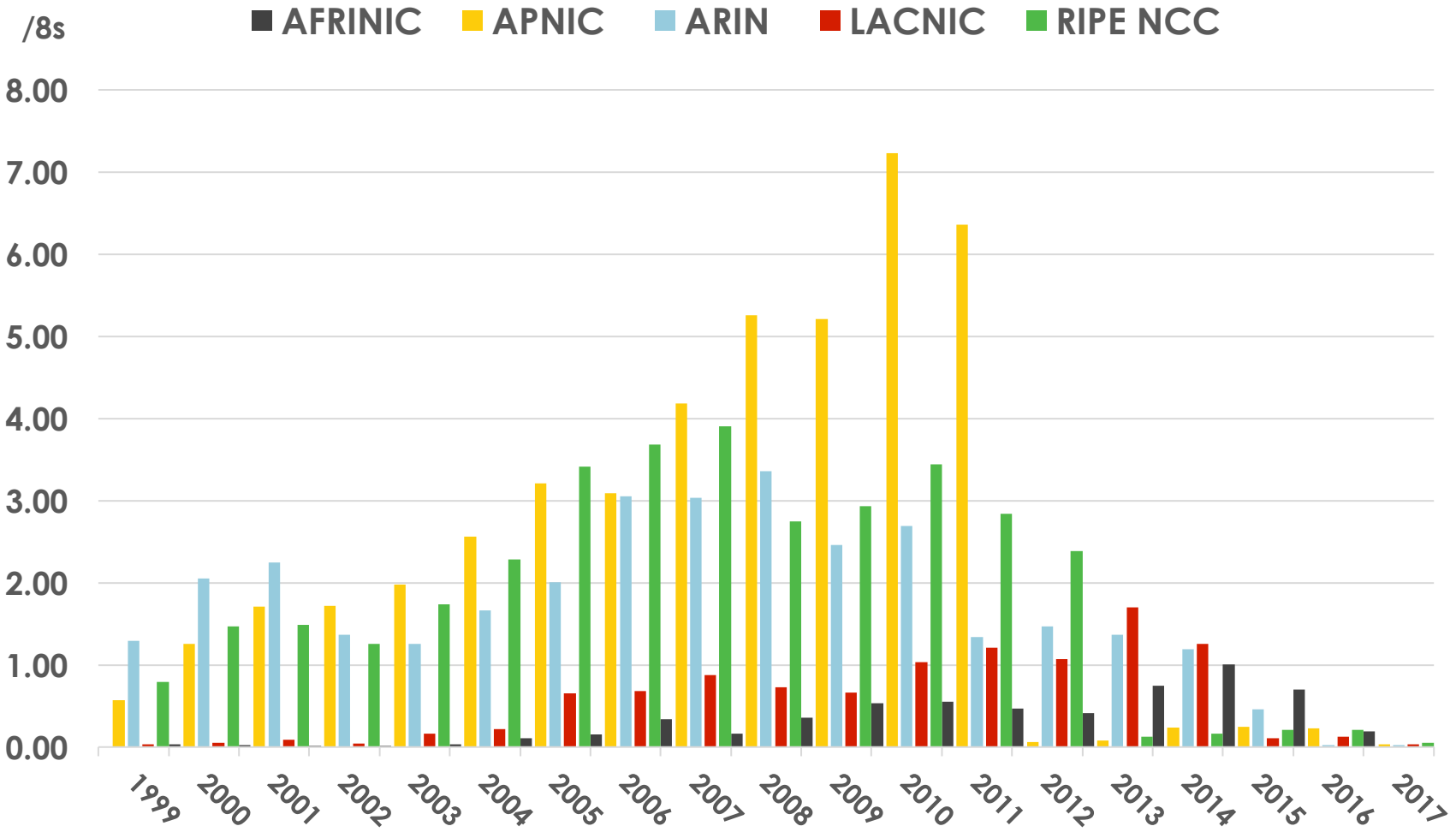
2001:610:240:0-1933:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 62:109:128 195:048:02:03 2001:610:240 193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203  
 193:0:0:203 2001:610:240:0-1933:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203  
 2001:610:240:0-1933:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203  
 2001:610:240:0-1933:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203  
 Number Resource Organization





# IPv4 ADDRESS SPACE ISSUED (RIRs TO CUSTOMERS)

In terms of /8s, how much space did each RIR issue by year?

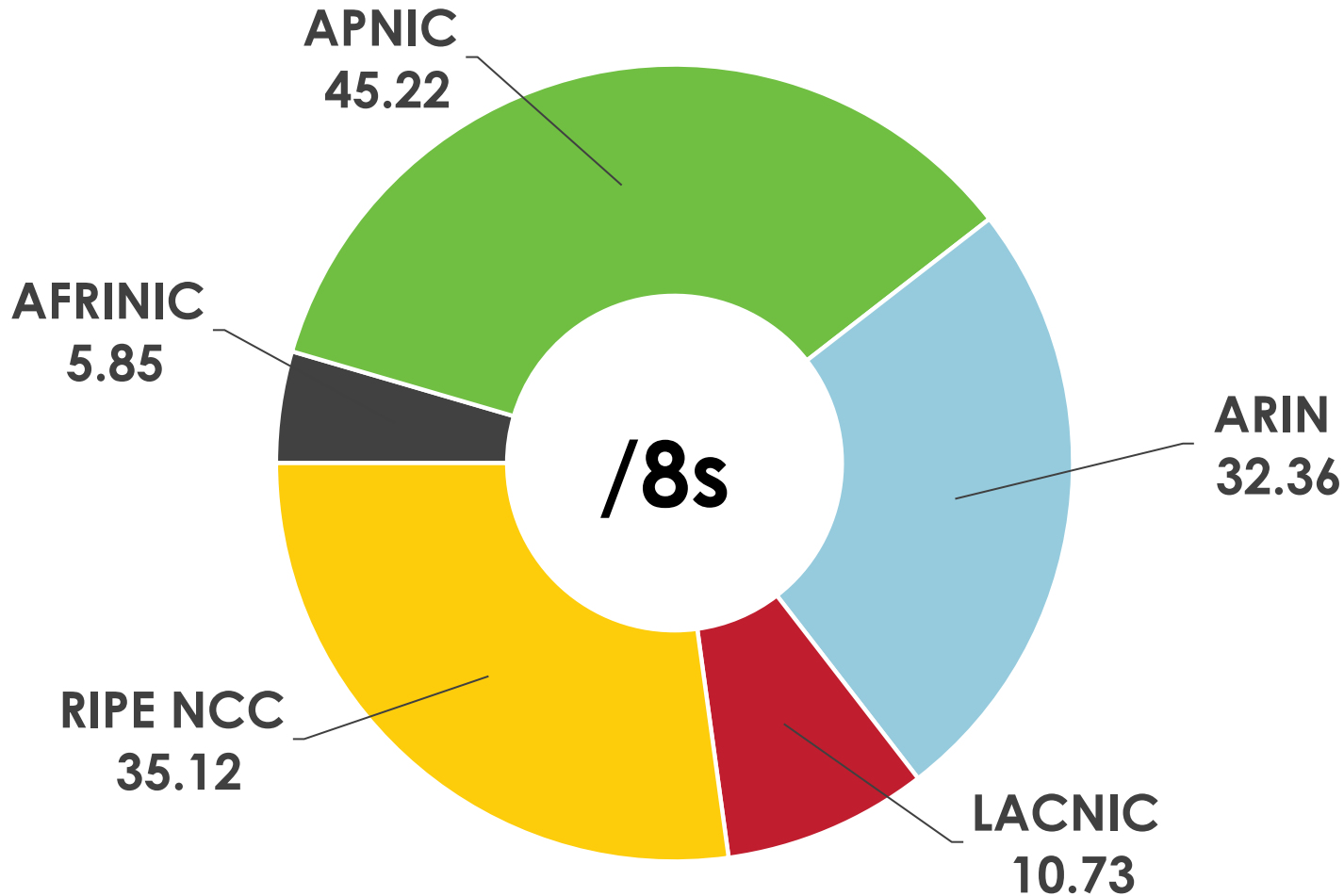


Number Resource Organization



# IPv4 ADDRESS SPACE ISSUED (RIRs TO CUSTOMERS)

In terms of /8s, how much total space has each RIR issued?  
(Jan 1999 – Mar 2017)

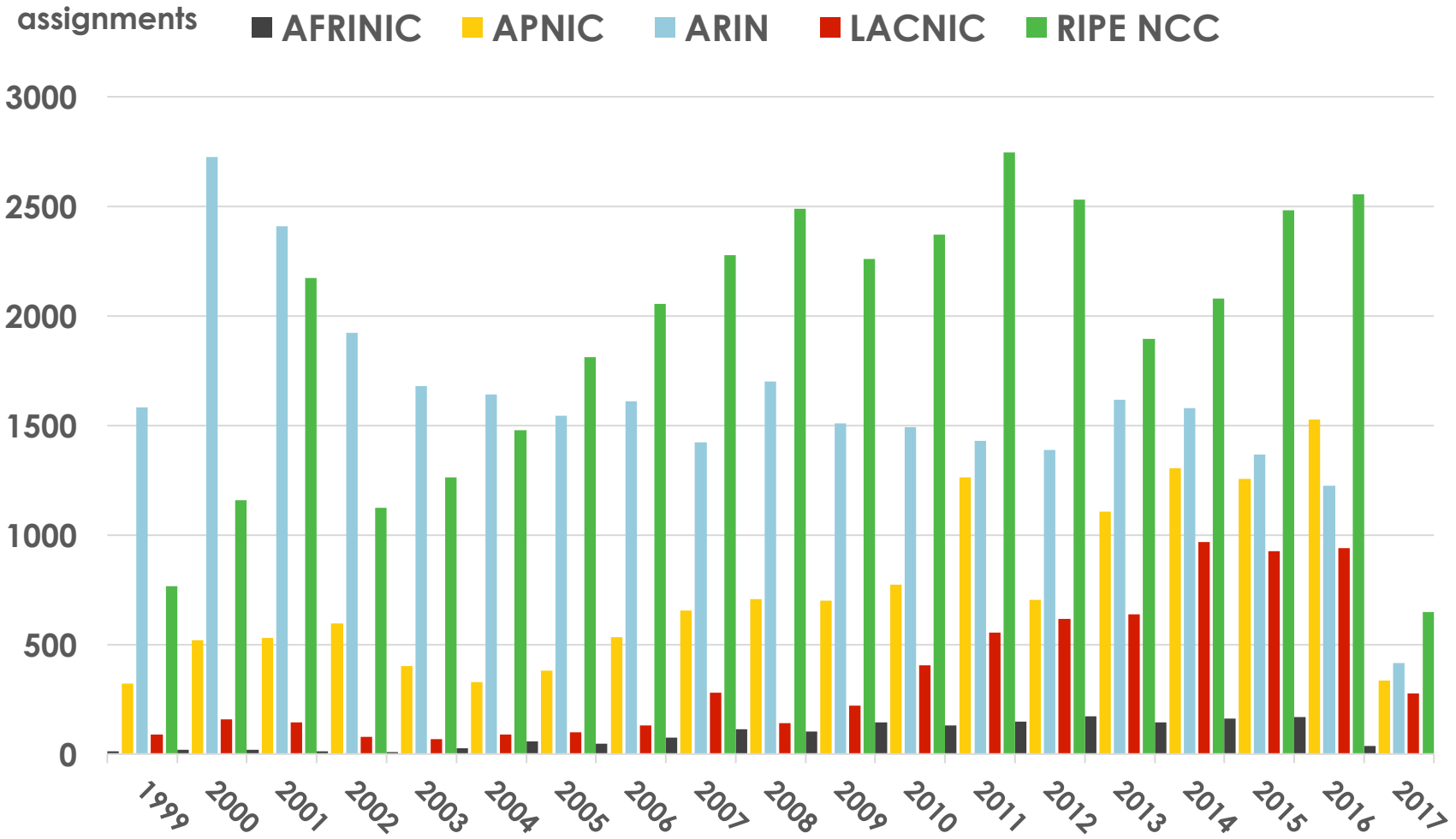


2001:610:240:0-193:0:0:202  
62:109:128-195:048:02:03  
193:0:0:203 2001:610:240:0-193:0:0:202  
2001:610:240:0-193:0:0:202  
62:109:128-195:048:02:03  
2001:610:240-193:0:0:203  
193:0:0:203  
Number Resource Organization



# ASN ASSIGNMENTS (RIRs TO CUSTOMERS)

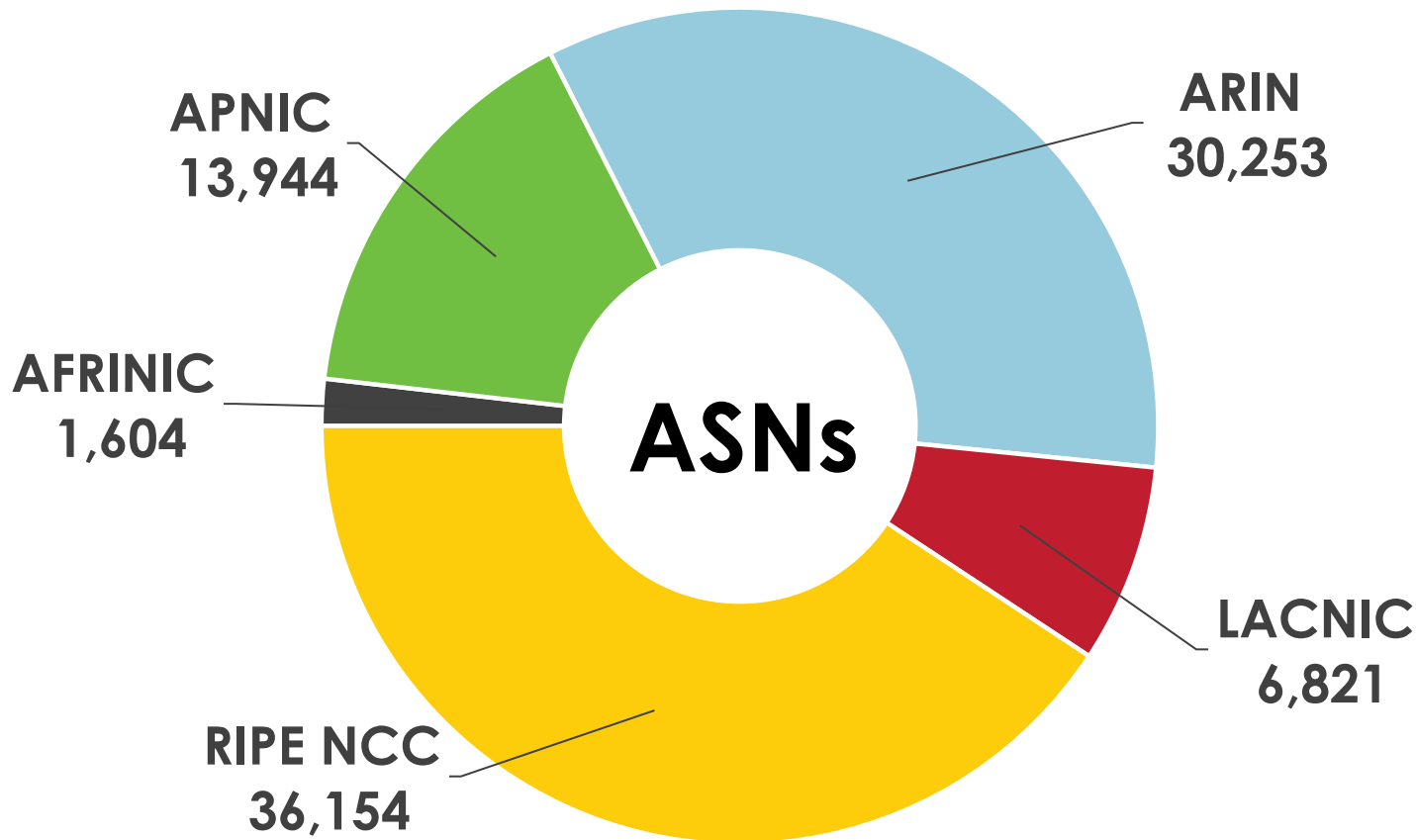
How many ASNs has each RIR assigned by year?



2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
62:109:128 195:048:02:03 2001:610:240 193:0:0:205 2001:610:240:0-193:0:0:202  
193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203  
2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203  
Number Resource Organization

# ASN ASSIGNMENTS (RIRs TO CUSTOMERS)

How many total ASNs has each RIR assigned?  
(Jan 1999 – Mar 2017)



2001:610:240:0-1933:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
62:109:128 195:048:02:03 2001:610:240 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
193:0:0:203 2001:610:240:0-1933:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
2001:610:240:0-1933:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203

Number Resource Organization





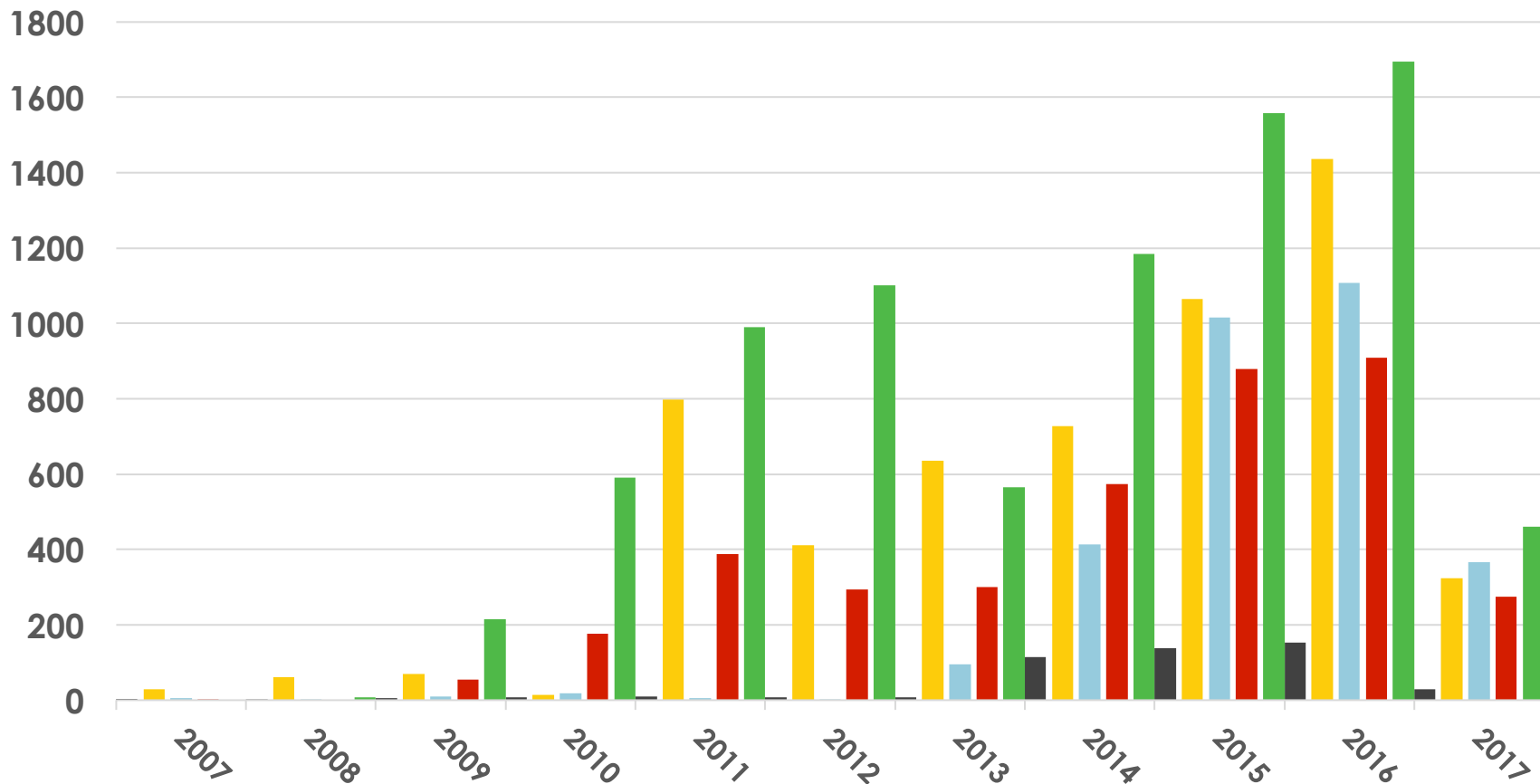
NRO

# 4-BYTE ASN ASSIGNMENTS

## How many 4-byte ASNs has each RIR assigned by year?

4-byte ASN assignments

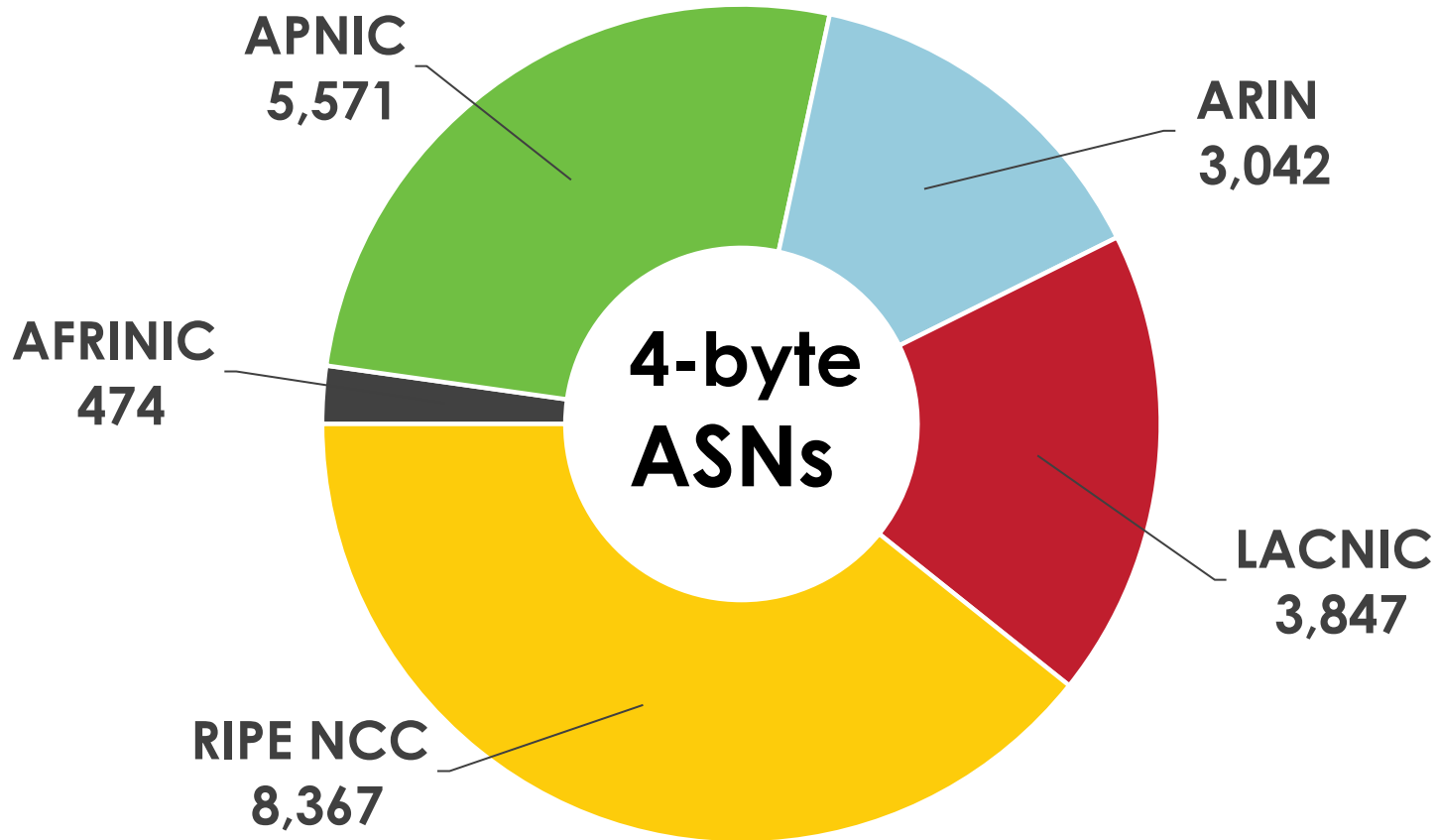
■ AFRINIC ■ APNIC ■ ARIN ■ LACNIC ■ RIPE NCC



2001:610:240:0-1933:0:0:202 62:109:128-195:048:02:03 178:12:02:02 2001:610:240 1933:0:0:203 195:048:02:03  
 62:109:128-195:048:02:03 2001:610:240 1933:0:0:202 62:109:128-195:048:02:03 178:12:02:02 2001:610:240 1933:0:0:203 195:048:02:03  
 1933:0:0:203 2001:610:240:0-1933:0:0:202 62:109:128-195:048:02:03 178:12:02:02 2001:610:240 1933:0:0:202  
 2001:610:240:0-1933:0:0:202 62:109:128-195:048:02:03 178:12:02:02 2001:610:240 1933:0:0:203 195:048:02:03  
 Number Resource Organization

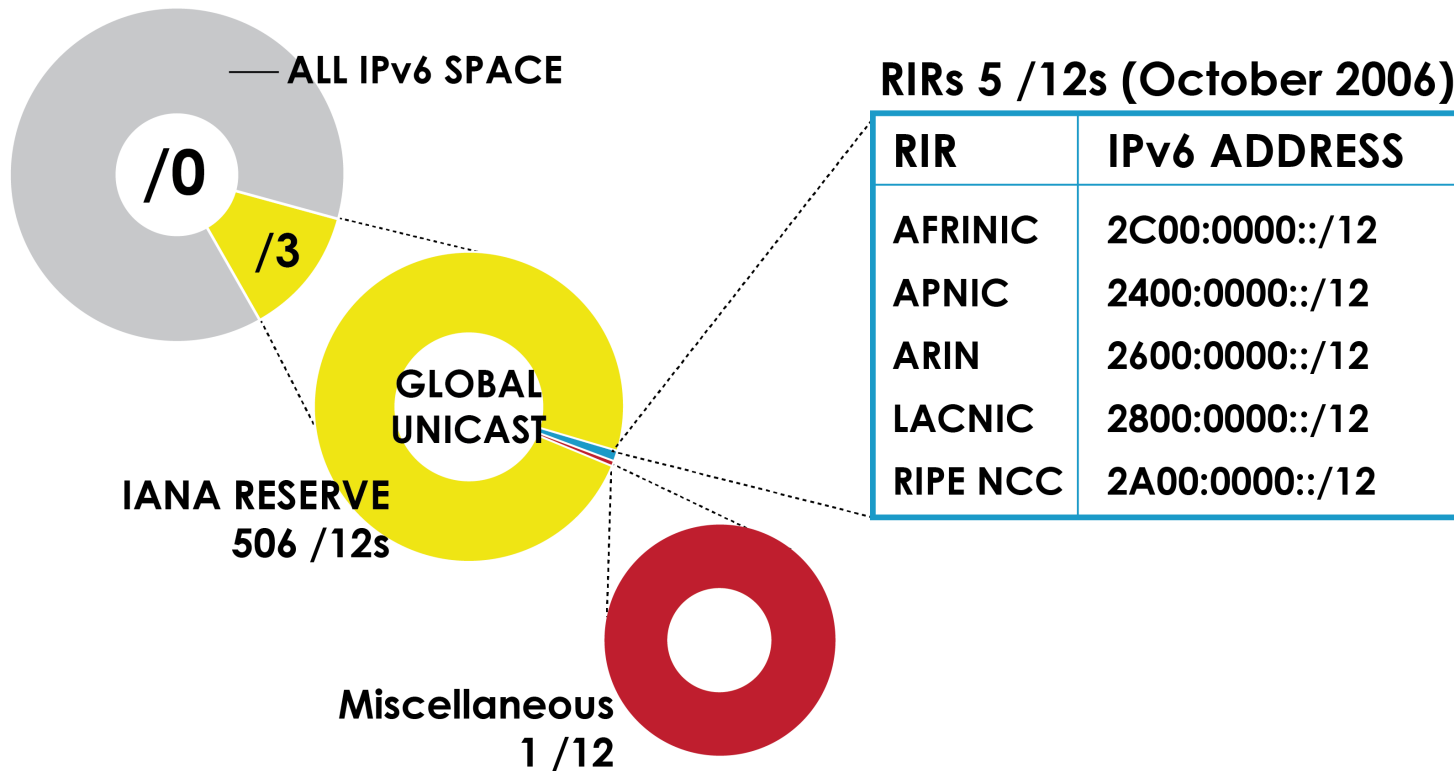
# 4-BYTE ASN ASSIGNMENTS

How many total 4-byte ASNs has each RIR assigned?  
(Jan 2007 – March 2017)



# IPv6 ADDRESS SPACE

How much has been allocated to the RIRs?



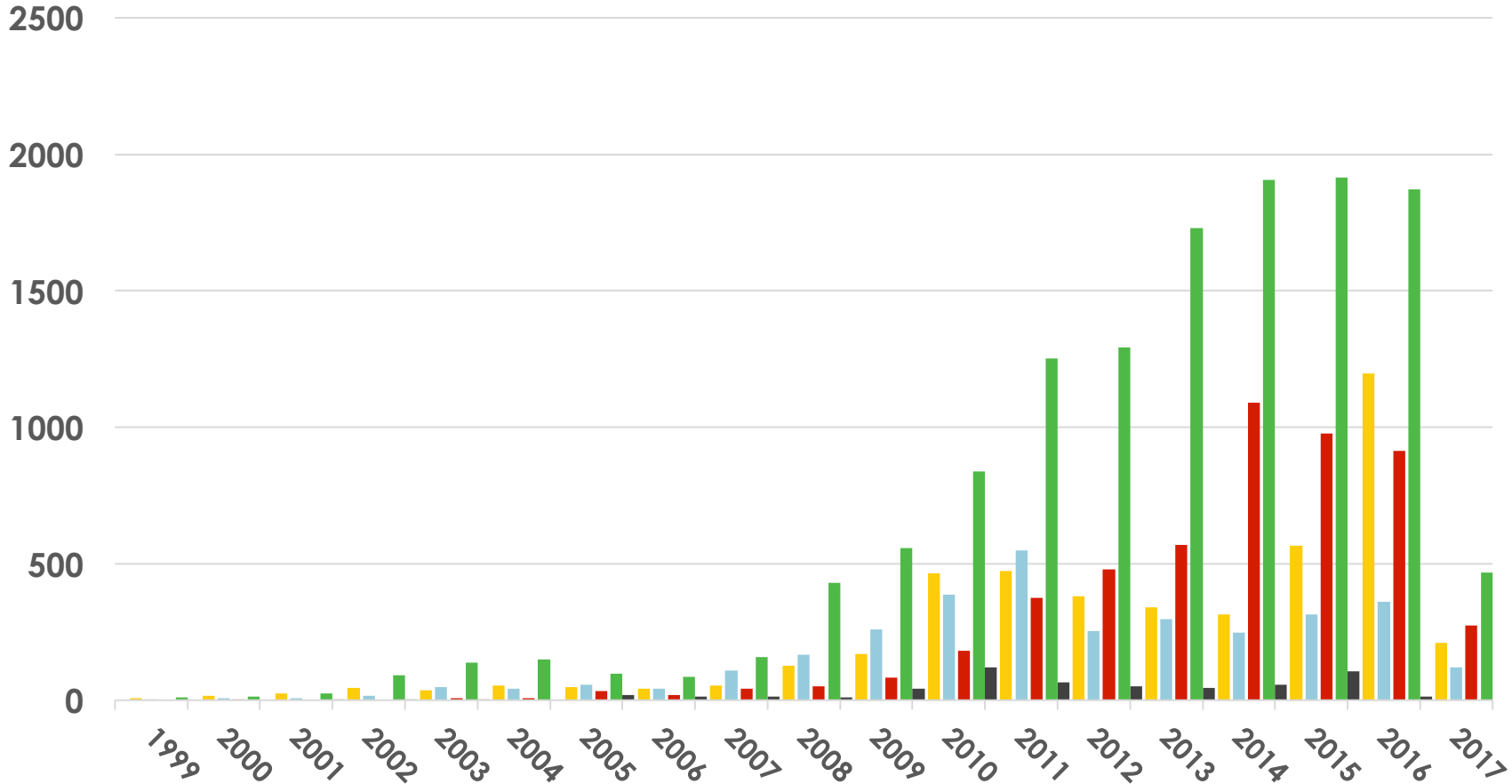


# IPv6 ALLOCATIONS (RIRs TO LIRs/ISPs)

How many allocations have been made by each RIR by year?

allocations

■ AFRINIC ■ APNIC ■ ARIN ■ LACNIC ■ RIPE NCC



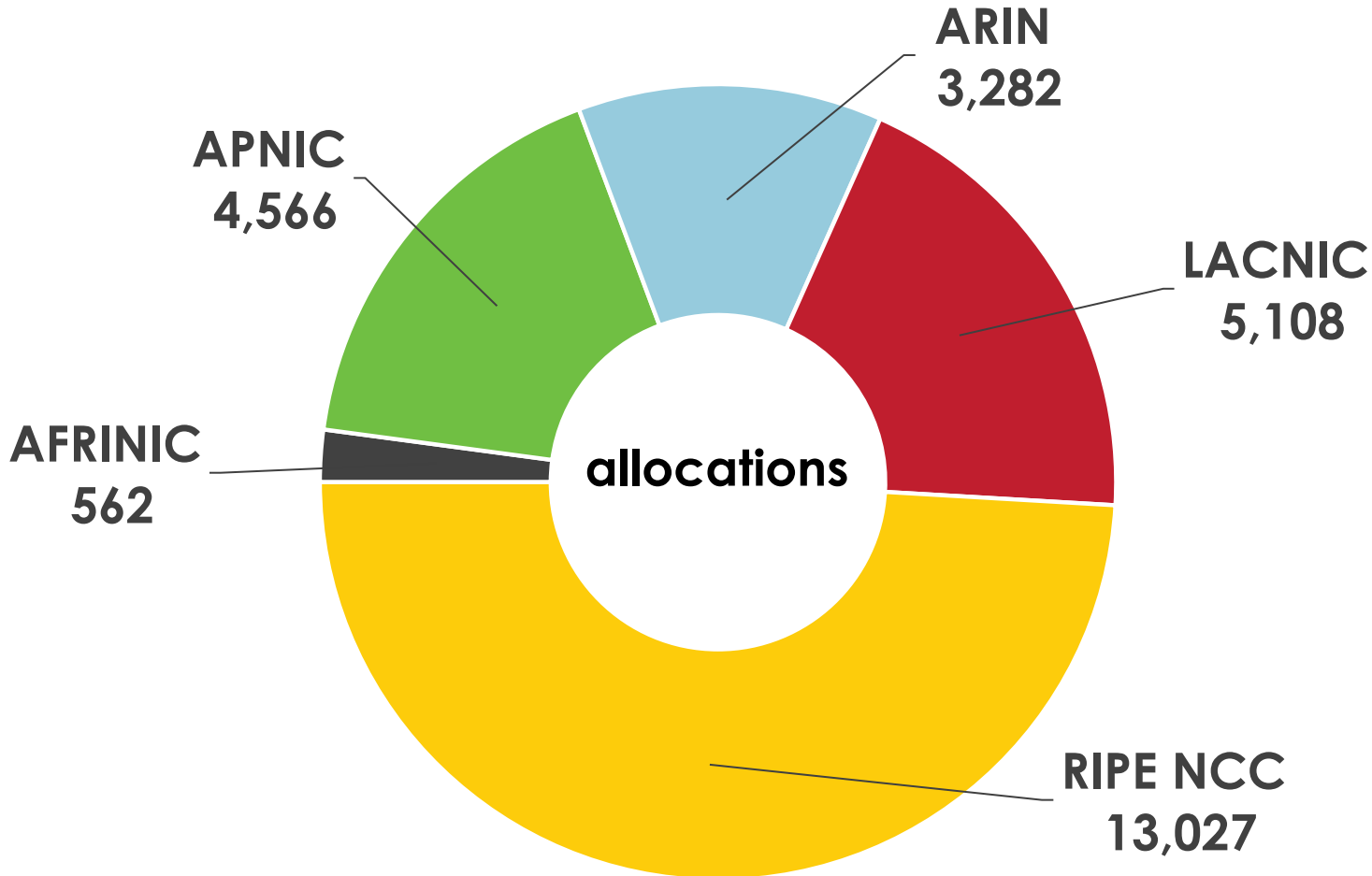
2001:610:240:0-193:0:0:202 62:109:128-195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 62:109:128-195:048:02:03 2001:610:240 193:0:0:203 2001:610:240 193:0:0:202  
 193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128-195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203  
 2001:610:240:0-193:0:0:202 62:109:128-195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
 Number Resource Organization



# IPv6 ALLOCATIONS

(RIRs TO LIRs/ISPs)

How many total allocations have been made by each RIR?  
(Jan 1999 – Mar 2017)



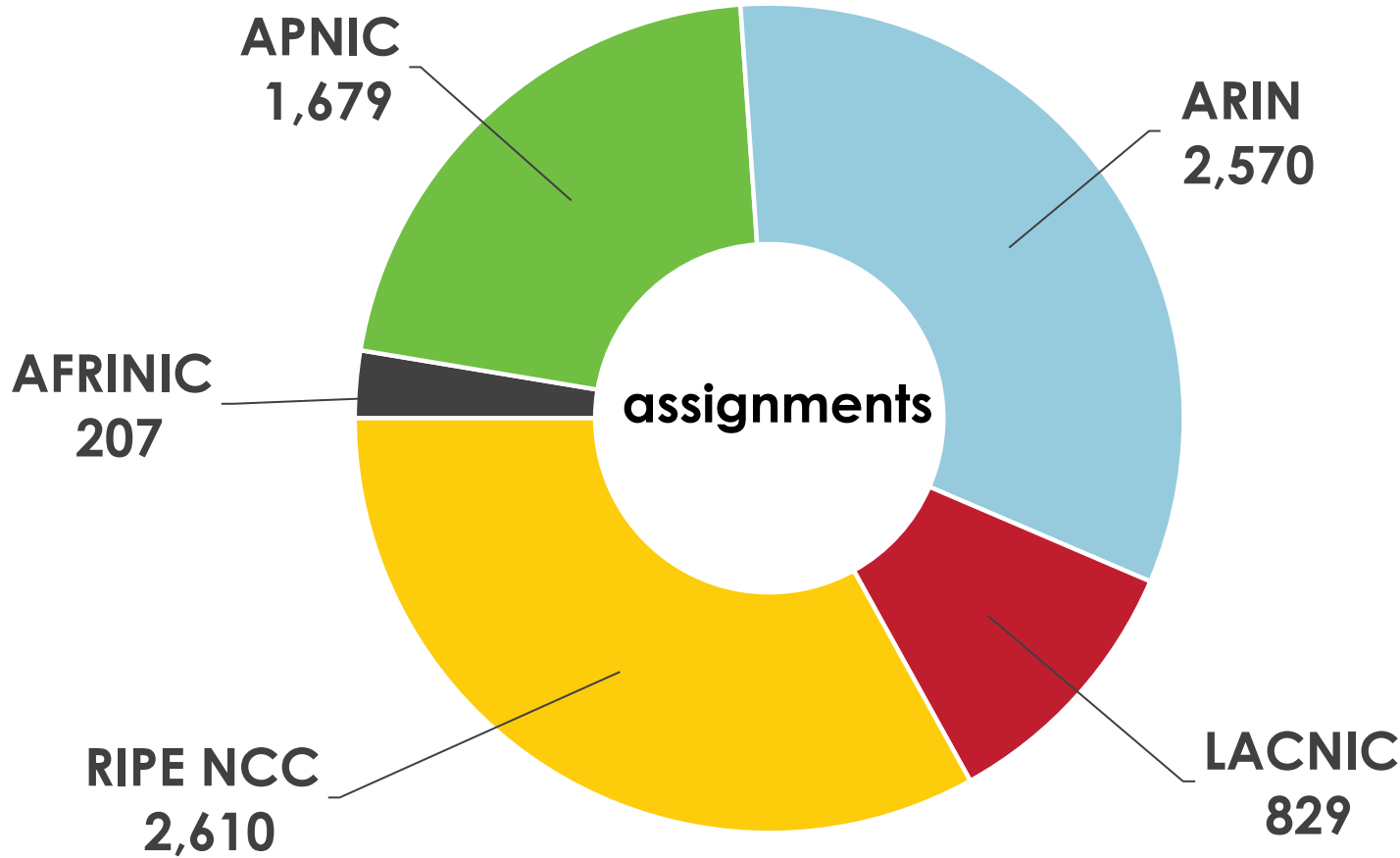
2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
62:109:128 195:048:02:03 2001:610:240 193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
193:0:0:203 2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:202  
2001:610:240:0-193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:610:240 193:0:0:203 195:048:02:03  
Number Resource Organization



# IPv6 ASSIGNMENTS

(RIRs TO END-USERS)

How many total assignments have been made by each RIR?  
(Jan 2002 – Mar 2017)

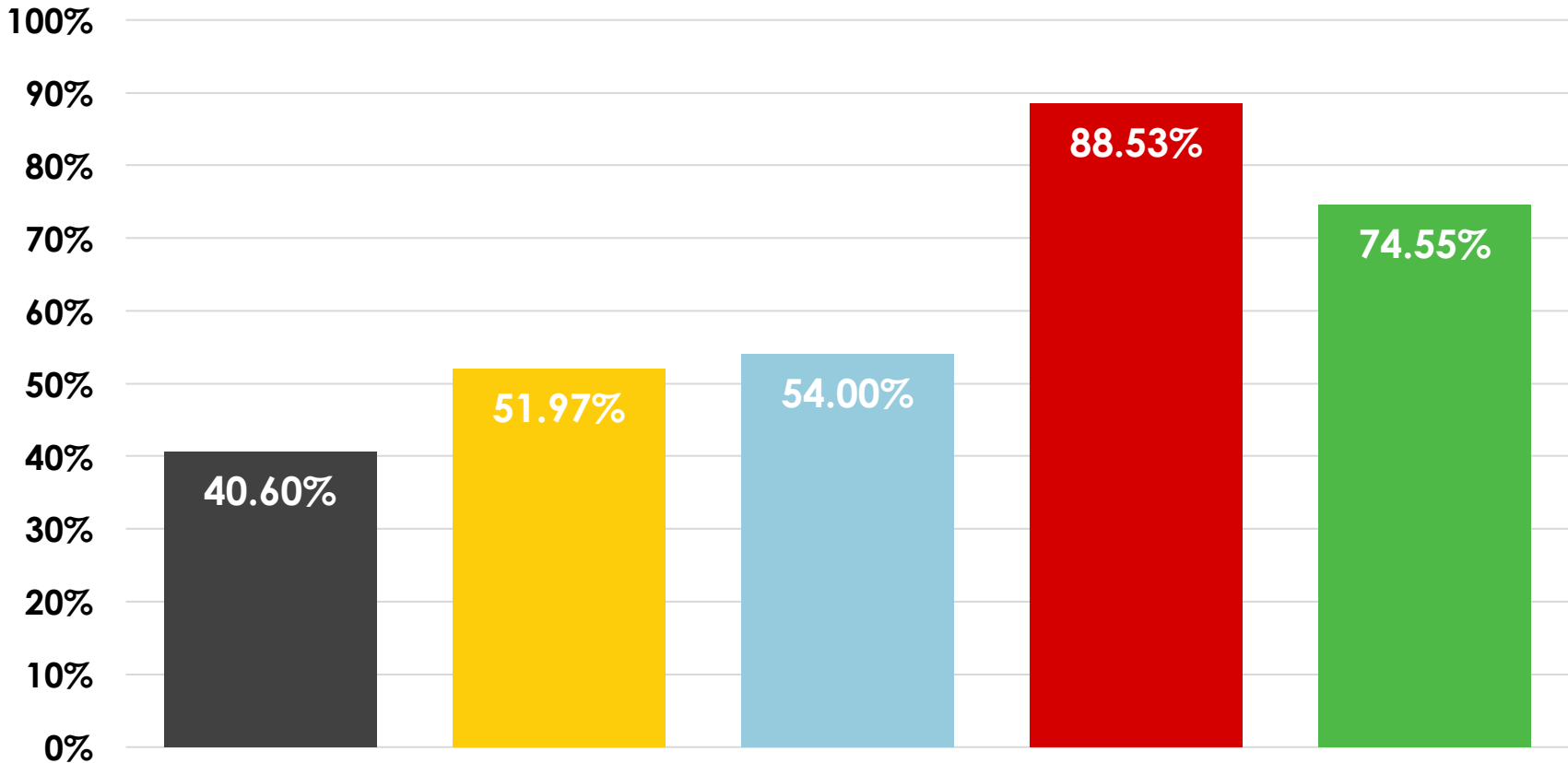


2001:610:240:0-193.0.0.202 62.109.128 195.048.02.03 178.42.02.02 2001:610:240 193.0.0.203 195.048.02.03  
 62.109.128 195.048.02.03 2001:610:240 193.0.0.202 62.109.128 195.048.02.03 178.42.02.02 2001:610:240 193.0.0.203  
 193.0.0.203 2001:610:240:0-193.0.0.202 62.109.128 195.048.02.03 178.42.02.02 2001:610:240 193.0.0.203  
 2001:610:240:0-193.0.0.202 62.109.128 195.048.02.03 178.42.02.02 2001:610:240 193.0.0.203 195.048.02.03  
 Number Resource Organization



# PERCENTAGE OF MEMBERS WITH BOTH IPv4 AND IPv6 IN EACH RIR

■ AFRINIC ■ APNIC ■ ARIN ■ LACNIC ■ RIPE NCC



2001:610:240:0-193.0.0.202 62.109.128 195.048.02.03 178.12.02.02 2001:610:240 193.0.0.203 195.048.02.03  
62.109.128 195.048.02.03 2001:610:240 193.0.0.202  
193.0.0.203 2001:610:240:0-199.0.0.202 62.109.128 195.048.02.03 178.12.02.02 2001:610:240 193.0.0.203  
2001:610:240:0-193.0.0.202 62.109.128 195.048.02.03 178.12.02.02 2001:610:240 193.0.0.203

Number Resource Organization





# LINKS TO RIR STATISTICS

- **RIR Stats:**

[www.nro.net/statistics](http://www.nro.net/statistics)

- **Raw Data/Historical RIR Allocations:**

[www.iana.org/assignments/ipv4-address-space](http://www.iana.org/assignments/ipv4-address-space)

[www.iana.org/assignments/as-numbers](http://www.iana.org/assignments/as-numbers)

[www.iana.org/assignments/ipv6-unicast-address-assignments](http://www.iana.org/assignments/ipv6-unicast-address-assignments)



# THANK YOU

2001:610:240-0 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203 195:048:02:03  
62:109:128 195:048:02:03 193:0:0:202 2001:610:240 193:0:0:203 2001:610:240-0 193:0:0:202  
193:0:0:203 2001:610:240-0 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
195:048:02:03 2001:610:240-0 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
2001:610:240-0 193:0:0:202 62:109:128 195:048:02:03 178:42:02:02 2001:610:240 193:0:0:203  
Number Resource Organization