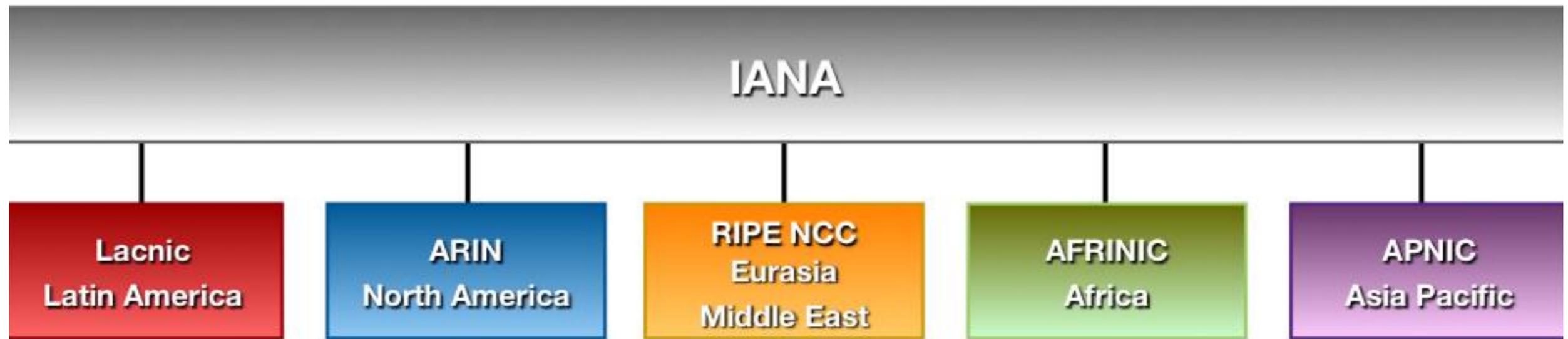# Update from the RIPE NCC

David Hilario, RIPE NCC

The Internet Registry System

Regional Internet Registries (RIR)

- Distribution and registration of Internet number resources: IP addresses, AS Numbers

- Not-for-profit organizations

- Funded by membership fees

- Neutral, Impartial, Open, Transparent

- Policies decided by regional communities

RIPE
NCC

RIPE NCC Membership Fee for 2014

- Approved at General Meeting from RIPE 66
    - Flat fee structure stays
    - Fee is lowered from 1800 Euros to 1750
    - PI assignment stays at 50 Euros per assignment
    - AS Numbers no extra charge

- New members
    - 2000 Euro sign up fee plus yearly fee
    - Yearly fee divided in quarters
    - New members pay for the remaining quarters of the year

Overview of LIRs In France

New Applications 2013		
Rank	Country	Number
1	UK	141
2	DE	96
3	RU	89
4	FR	84
5	NL	73
6	IT	55
7	PL	47
8	ES	40
9	CH	36
10	EU	30
	Other	404

French members
growing in numbers!

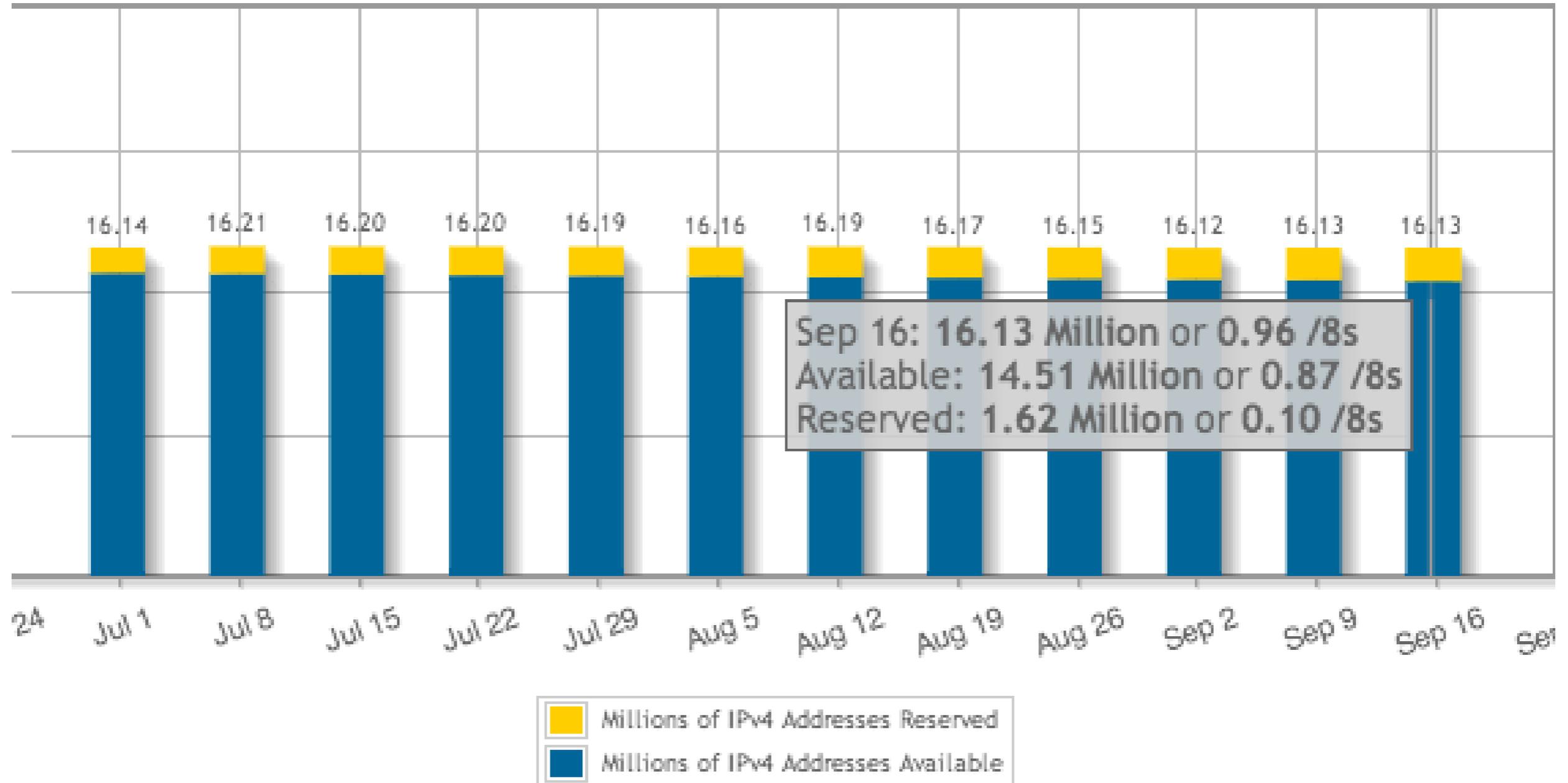| Growth per Country														
Country	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13
UK	933	942	955	969	984	1007	1026	1033	1042	1059	1065	1081	1091	1106
RU	1041	1039	1044	1045	1054	1056	1068	1072	1074	1086	1088	1089	1096	1091
DE	830	836	852	860	877	892	896	904	916	921	932	942	952	957
IT	507	513	519	520	531	534	543	547	552	556	563	568	575	576
FR	443	448	453	465	483	495	506	511	520	533	532	548	562	564
NL	429	434	444	446	455	461	468	470	482	492	490	498	503	508
ES	353	357	363	365	370	375	379	380	387	389	386	390	396	396
CH	269	275	279	285	293	298	304	304	309	313	312	317	323	325
SE	275	276	278	282	284	288	292	292	294	293	298	302	304	306
PL	218	220	223	223	226	230	238	240	242	248	252	257	265	268
CZ	216	220	222	225	228	230	232	232	234	235	235	237	238	239
Other	2688	2719	2754	2785	2843	2894	2934	2949	2979	3029	3026	3061	3104	3133
Total	8202	8279	8386	8470	8628	8760	8886	8934	9031	9154	9179	9290	9409	9469

RIPE NCC reached Last /8

- Each LIR can get only **one** /22 allocation

- New and existing LIRs

- Must already have IPv6 allocation

- 2155 * /22 issued so far

- Any returned addresses distributed according to last /8 policy

IPv4 Available Address Pool

RIPE NCC IPv4 Pool — Last 12 Weeks

Bar chart values (left to right):
16.14, 16.21, 16.20, 16.20, 16.19, 16.16, 16.19, 16.17, 16.15, 16.12, 16.13, 16.13

X-axis: 24, Jul 1, Jul 8, Jul 15, Jul 22, Jul 29, Aug 5, Aug 12, Aug 19, Aug 26, Sep 2, Sep 9, Sep 16, Se

Callout box:
Sep 16: **16.13 Million or 0.96 /8s**
Available: **14.51 Million or 0.87 /8s**
Reserved: **1.62 Million or 0.10 /8s**

Legend:
- Millions of IPv4 Addresses Reserved
- Millions of IPv4 Addresses Available

Need More Address Space?

- Different types of intra-RIR transfers:

  – Mergers and acquisitions

  – IPv4 Transfer Policy: ripe-583, section 5.5

- IP addresses to be transferred cannot be in use

- Receiving LIR must justify need for IP addresses

- Permanent or temporary

- Currently no inter-RIR transfer possible in the RIPE region

IPv4 Transfer Listing Service (1)

- Enables LIRs looking to transfer allocations to find receiving parties

- LIRs can also request resources

- Member-only service through the LIR Portal

- Currently 503,808 IPs offered vs 16,489,472 requested

IPv4 Transfer Listing Service (2)

IPv4 Transfer Statistics
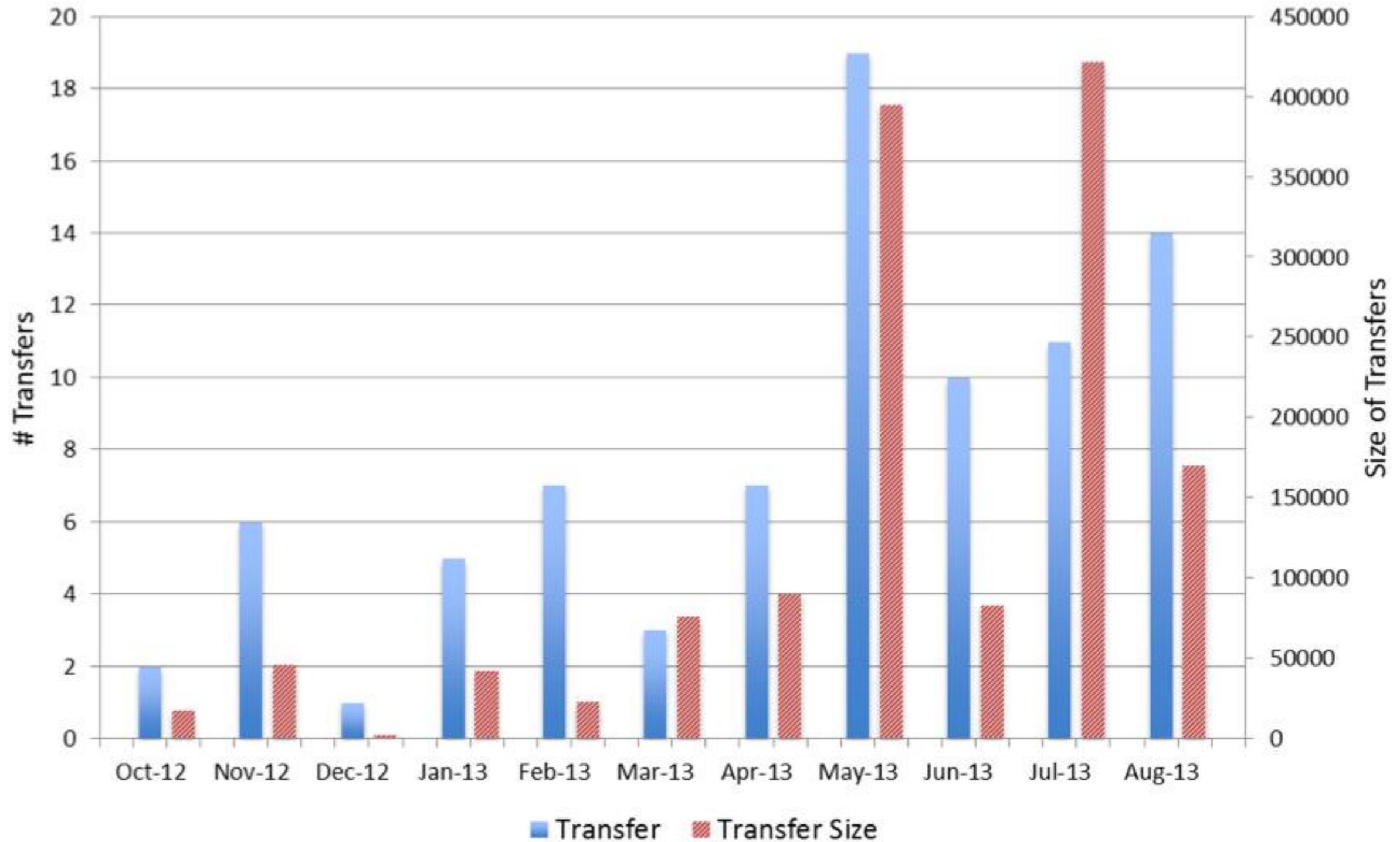
Where Does the RIPE NCC Stand?

- Our ultimate priority is keeping the registry up-to-date

- Ensuring that transfers follow RIPE Policy

- Supporting our members through the transfer process

- The RIPE NCC has no interest in financial transactions

Current Policy Proposals (1)

- "Policy for Inter-RIR Transfers of IPv4 Address Space"
    - Policy proposal 2012-02
    - This proposal describes how transfers of IPv4 address space between LIRs of different Regional Internet Registries will occur
    - Need for policy compliance between RIRs:
    - Originating party complies with policy of originating RIR
    - Destination party complies with policy destination RIR
    - RIRs must have compatible as well as reciprocal policies

- Status: proposer awaiting outcome of 2013-03

Current Policy Proposals (2)

- "No Need – Post-Depletion Reality Adjustment and Cleanup"
  - Policy proposal 2013-03
  - This proposal intends to remove the need-based requirement for IPv4 delegations in the RIPE NCC service area.
  - Remove "conservation" as a stated goal of the policy.
  - Remove all active policy text referring to documentation, evaluation of need, and validation of actual usage for both assignments and allocations.

- Status: Review Phase

Current Policy Proposals (3)

- "No Restrictions on End User Assignments in Intra-RIR Transfers"
  - Policy proposal 2013-03
  - This proposal intends to remove the requirement for address space to be free from End User assignments before a transfer is possible.

- Status: Discussion Phase

IPv6 RIPEness

- Rating system that awards 'stars' to members

- Indication of IPv6 readiness at LIR level

- An LIR can get a 'star' for:

  - Hold IPv6 allocation

  - IPv6 prefix is announced on router

  - A route6 object in the RIPE Database (whois)

  - IPv6 reverse DNS set up

IPv6 RIPEness RIPE Region

All (9523 LIRs)

3 stars: 1271 (13%)

2 stars: 737 (7%)

4 stars: 1944 (20%)

1 star: 2116 (22%)

no IPv6: 3455 (36%)

IPv6 RIPEness France

France (562 LIRs)

3 stars: 87 (15%)

4 stars: 114 (20%)

2 stars: 61 (10%)

1 star: 132 (23%)

no IPv6: 168 (29%)
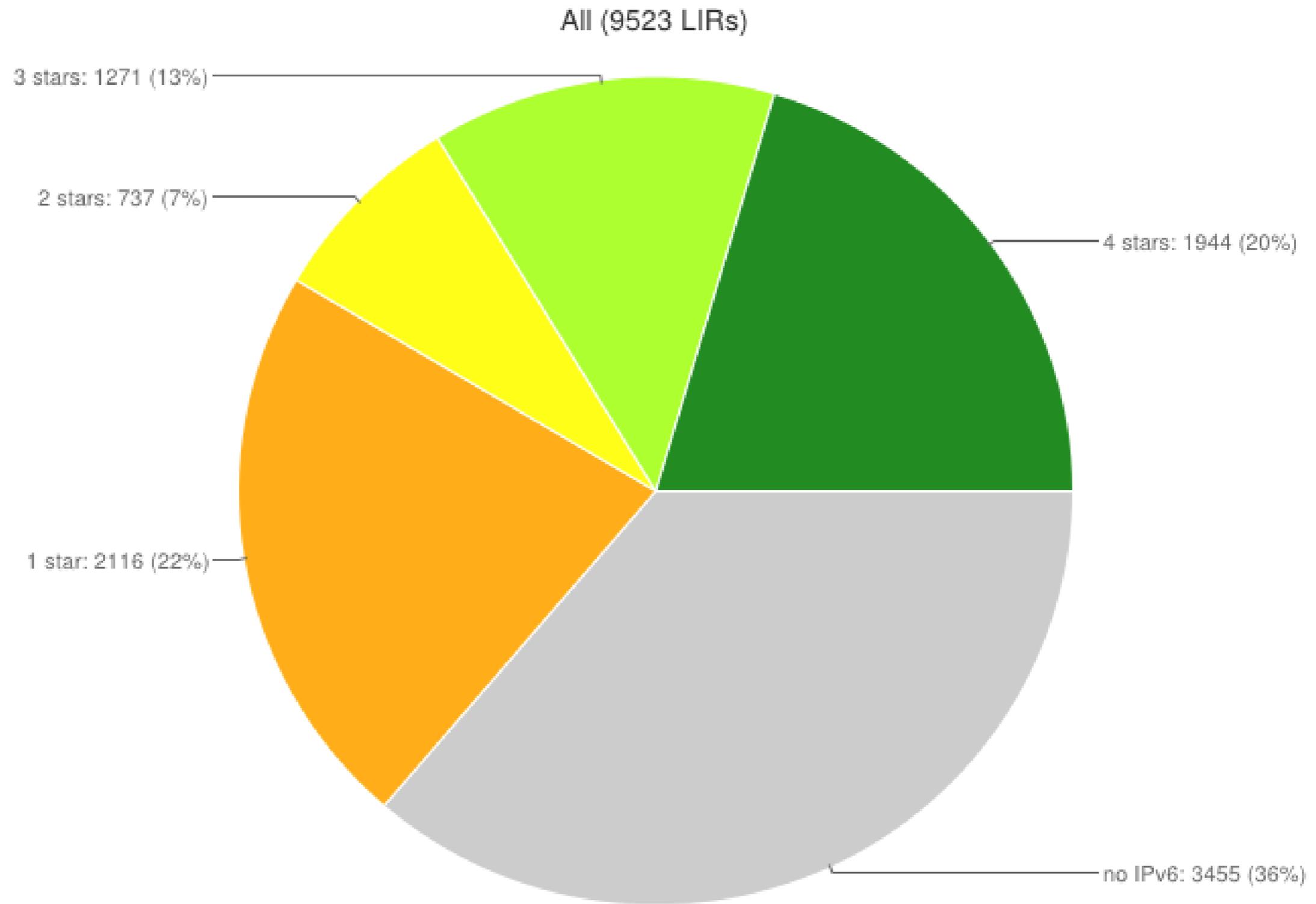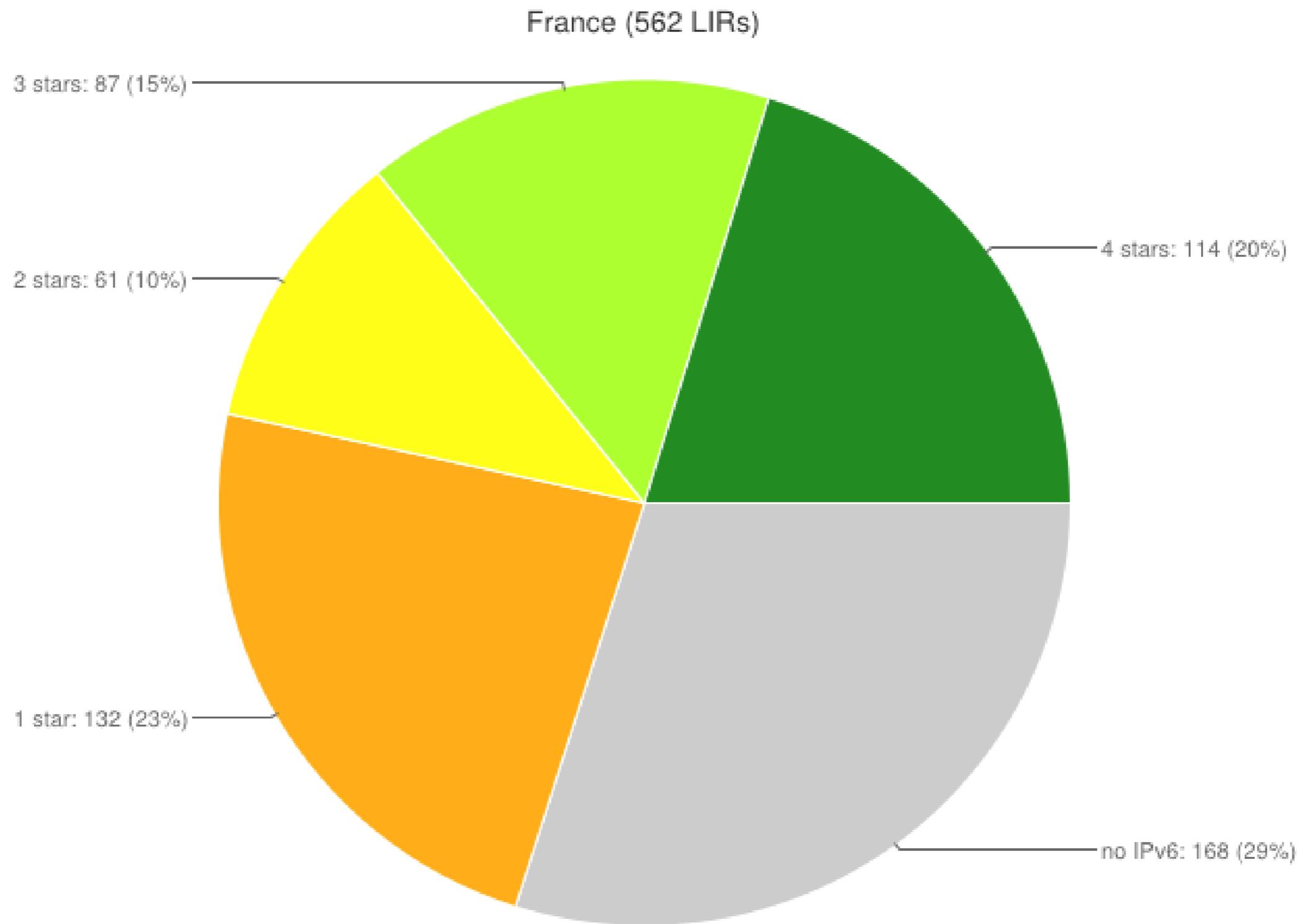
IPv6 Allocation

- Be an LIR

- Have a plan for making assignments within two years

- Minimum allocation size /32

- LIR may request up to /29 without further documentation

IPv6 PI assignment

- Minimum assignment size /48

- Justify need for additional subnets

- PI space can not be used for sub-assignments

- Request through sponsoring LIR

RIPE Database News: New Query Flags

- Show all Flags: whois -h whois.ripe.net help

```
% This is the RIPE Database query service.
% The objects are in RPSL format.
%
% The RIPE Database is subject to Terms and Conditions.
% See http://www.ripe.net/db/support/db-terms-conditions.pdf

% NAME
%      whois query server
%
% DESCRIPTION
%      The following options are available:
%
%      -x, --exact <ip-lookup>
%              Requests that only an exact match on a prefix be performed. If no
%              exact match is found no objects are returned.
%
%      -l, --one-less <ip-lookup>
%              Returns first level less specific inetnum, inet6num or route(6)
%              objects, excluding exact matches.
%
%      -L, --all-less <ip-lookup>
%              Returns all level less specific inetnum, inet6num or route(6)
%              objects, including exact matches.
%
%      -m, --one-more <ip-lookup>
%              Returns first level more specific inetnum, inet6num or route(6)
%              objects, excluding exact matches.
%
%      -M, --all-more <ip-lookup>
%              Returns all level more specific inetnum, inet6num or route(6)
%              objects, excluding exact matches.
%
%      -C, --no-irt <ip-lookup>
%              Turns off default option '-c' or '--irt'.
```

RIPE NCC

RIPE Database News: Abuse contact info

```
role:           Abuse-role Acme
nic-hdl:        AR789-RIPE
admin-c:        SB436-RIPE
tech-c:         JS123-RIPE
tech-c:         XL451-RIPE
abuse-mailbox:  abuse@eaxample.org
mnt-by:         LIR-MNT
```

```
organisation:   ORG-BB2-RIPE
admin-c:        JD1-RIPE
tech-c:         LA789-RIPE
abuse-c:        AR789-RIPE
mnt-by:         RIPE-NCC-HM-MNT
```

Links

- http://www.ripe.net/lir-services/resource-management/ipv4-transfers

- https://www.ripe.net/ripe/policies/current-proposals/current-policy-proposals

- http://ripeness.ripe.net/

- https://labs.ripe.net/statistics

Questions?