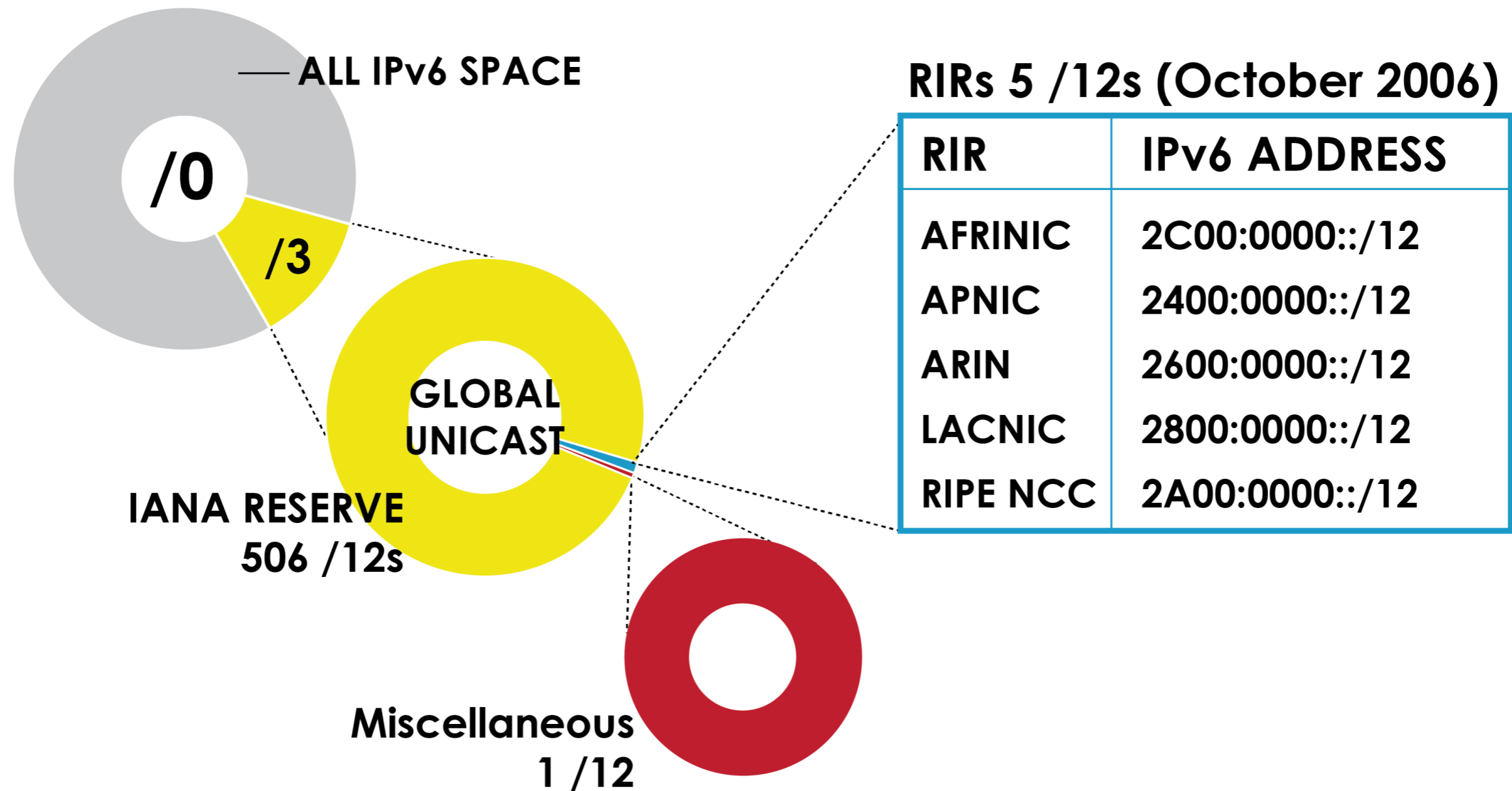




RIPE NCC
RIPE NETWORK COORDINATION CENTRE

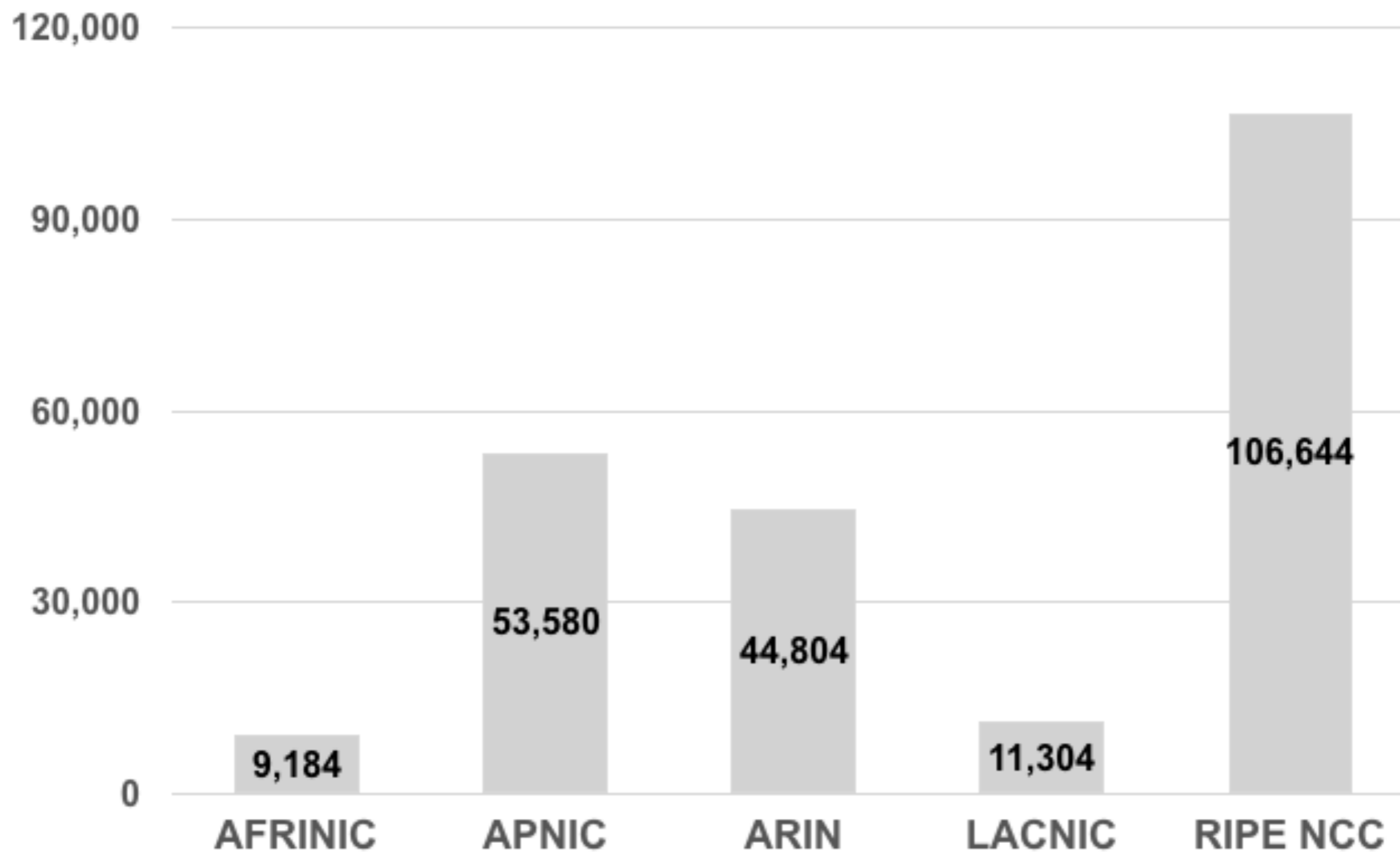
A view on IPv6 from Registration Services

IPv6 Address Distribution



Source: <https://www.nro.net/statistics>
Number Resource Organisation

Total Allocated IPv6 Space in /32s

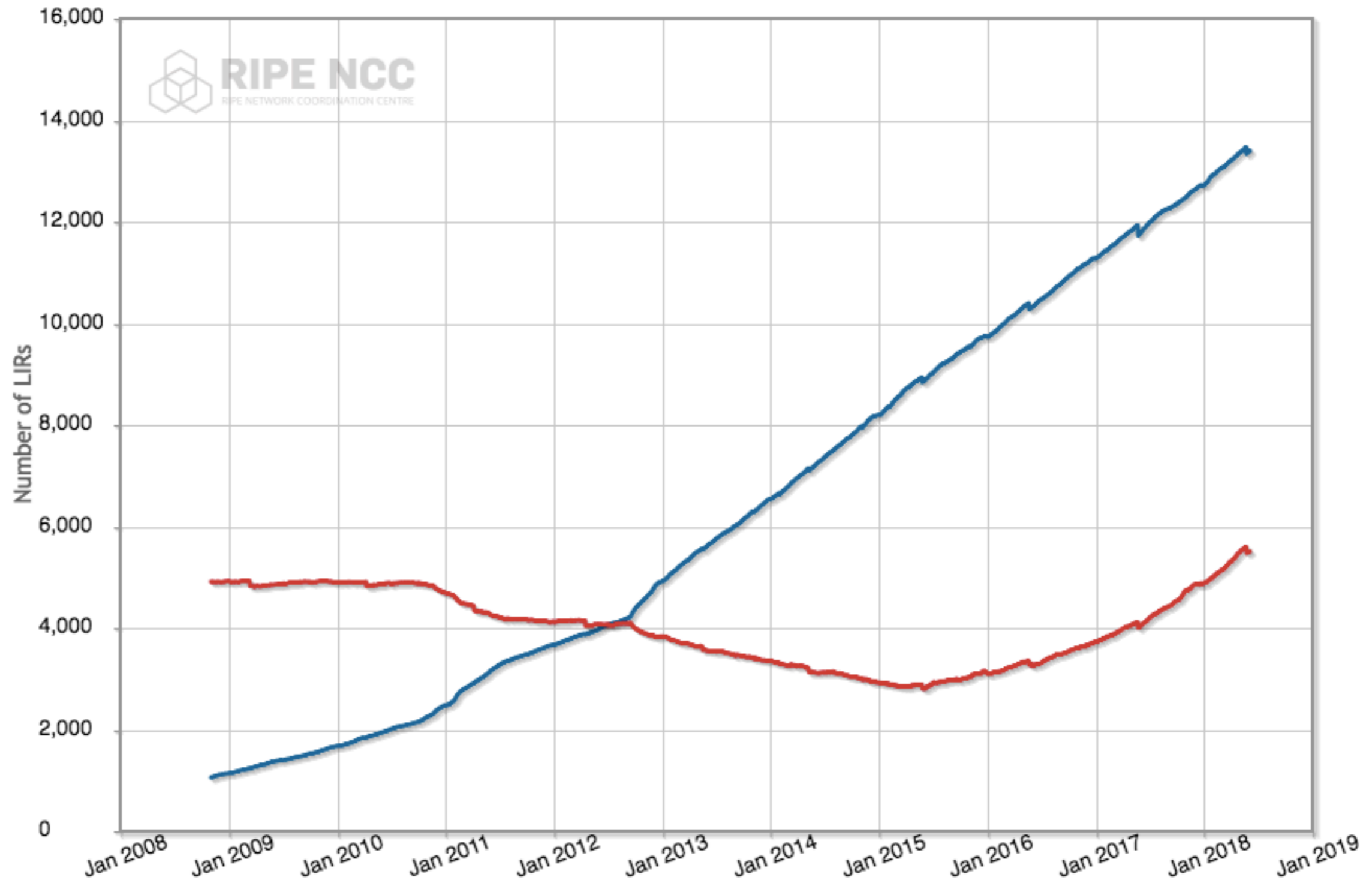


IPv6 Distribution by RIPE NCC

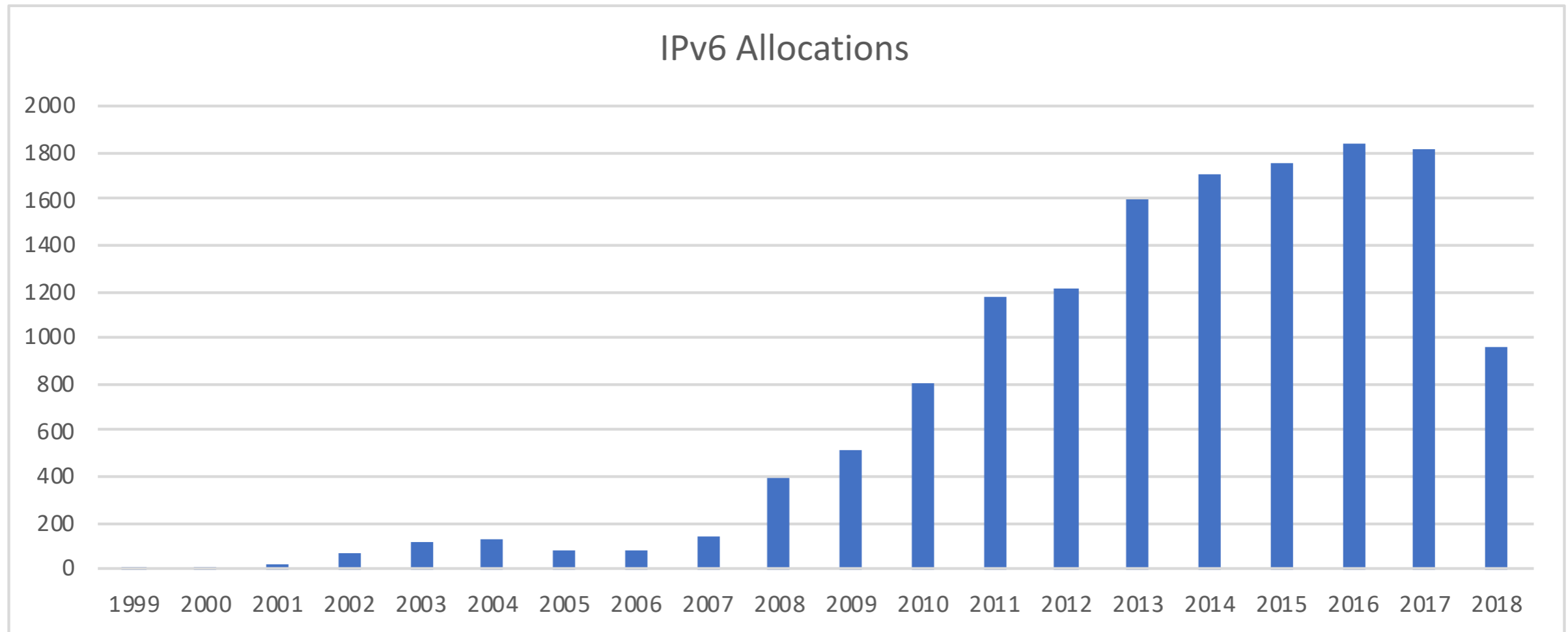


- 19.149 RIPE NCC Members
- 13.555 holding IPv6
- 71% of all Members have IPv6
- Percentage of networks (ASes) that announce one or more IPv6 prefixes: 26%

LIRs With and Without IPv6



Historical IPv6 Distribution



RIPE Policy



- Minimum allocation size /32 and up to a /29 without additional justification
 - More if justified by customer numbers and network extension
 - Additional bits based on hierarchical and geographical structure, planned longevity and security levels
- Every assignment must be registered in the RIPE Database
- Minimum PI assignment size /48

RIPE Policy - Recent Updates



- IPv6 Sub-assignment Clarification
 - the provision of separate addresses to customers is not considered a sub-assignment

- Organisation-LIR Clarification
 - the right to receive IPv6 allocations will apply per LIR

Trends and Observations



- Increasing interest for large IPv6 allocations
- Governments become more active preparing nationwide plans
- Organisations are planning ahead - But the “scars” of IPv4 are still there
- Knowledge around IPv6 is still limited
- Registration can be a puzzle
- Efforts to stockpile IPv6 by some organisations

Promoting IPv6



- Specialised IPv6 team within RS
- Guidance during evaluation of large IPv6 requests
- Advise while processing IPv4 related requests
- Presence in conferences and events, raising awareness
- “IPv6 for governments” program



Questions



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[@RIPENCC_IPRAs](https://twitter.com/RIPENCC_IPRAs)