

APNIC STATUS UPDATE

KRNIC Member Workshop
29-30 November 2001
Seoul, Korea



Overview

- ◆ New membership category
- ◆ New policies
 - ◆ IPv4
 - ◆ IPv6
- ◆ Resource statistics



Current Membership Category

Total IPv4 allocation	Total IPv6 allocation	Membership category	Number of votes	Annual fee (USD)
$\leq /19$	$\leq /35$	Small	1	\$2500
$\leq /16$	$\leq /32$	Medium	2	\$5000
$\leq /13$	$\leq /29$	Large	4	\$10000
$>/13$	$>/29$	Very Large	8	\$20000



New Membership Category

Total IPv4 allocation	Total IPv6 allocation	Membership category	Number of votes	Annual fee (USD)
None	None	Associate	1	\$625
\leq /22	N/A	Very Small	2	\$1250
\leq /19	\leq /35	Small	4	\$2500
\leq /16	\leq /32	Medium	8	\$5000
\leq /13	\leq /29	Large	16	\$10000
\leq /10	$>$ /29	Very Large	32	\$20000
$>$ /10	N/A	Extra Large	64	\$40000



New Membership Category

- ◆ Allow diverse participation from internet community
 - ◆ Non APNIC member or individual can join as an “associate” member.
 - ◆ Organisations with historical small allocation can now join as “very small member”
- ◆ A more equitable distribution of votes for all members.



Criteria for Initial Address Allocation

- ◆ Applicants must:
 - ◆ Have used a /22 from upstream provider OR show immediate need for /22
 - ◆ Have demonstrated efficient usage of IP addresses received from upstream providers.
 - ◆ Provide detailed plan for use of /21 within a year
 - ◆ Renumber from previously used space to new space within a year
 - ◆ Meet all other relevant policy requirements

New Small Multihoming Assignment

- ◆ Small multihoming assignment policy
 - ◆ Applicants must be multihomed OR demonstrate plan to multihome within 1 month
 - ◆ Agree to renumber out of previously assigned space
 - ◆ Demonstrate need to use 25% of requested space immediately and 50% within 1 year
 - ◆ Meet all other relevant policy requirements



New Assignment policy for IPv4 IX

- ◆ Applicants must agree not to announce prefix to global routing table
- ◆ Must have more than 3 peers
- ◆ Demonstrate “Open Peering Policy”
- ◆ APNIC will reserve a block of address for all IX in AP region
 - ◆ Block will be visible on website so ISPs can filter accordingly
 - ◆ /24 will be assign for all IX



New Assignment Policy for IPv6 IX

- ◆ IX need portable assignments for their infrastructure/customers to connect via native IPv6 and they do not require a larger allocation
- ◆ IX are considered as a site eligible to receive a “portable “ assignment
- ◆ Consensus reached
 - ◆ APNIC a /64 is sufficient for the peering mesh
 - ◆ All other requirement should be met through normal processes
 - ◆ ARIN region similar to APNIC (/64)
 - ◆ RIPE region – /48

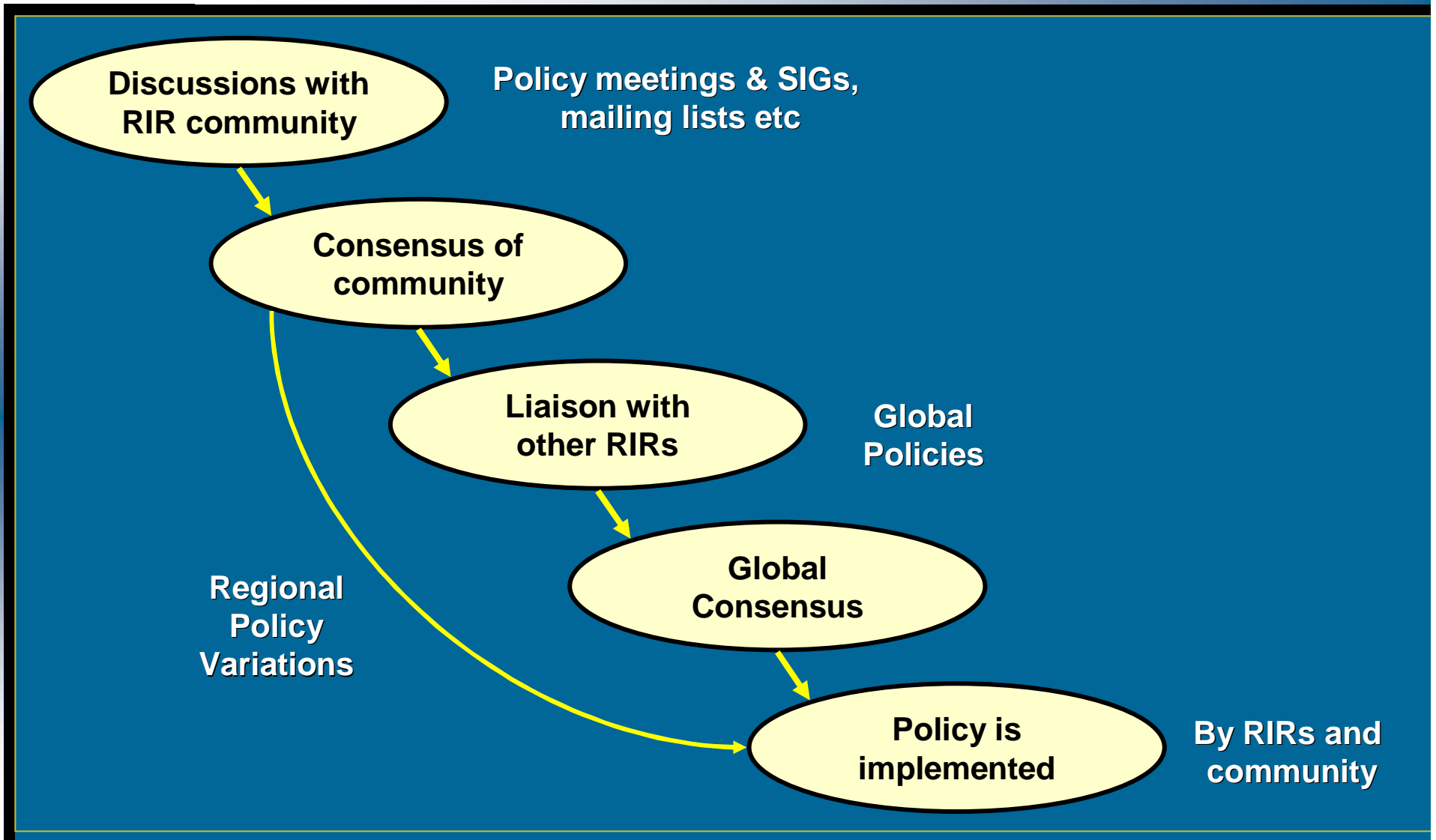
Bootstrap period for IPv6 extended

- ◆ Original bootstrap required that when 100 subTLA have been allocated general criteria applies
- ◆ Continue with bootstrap criteria until new policy developed



APNIC

IPv6 Policy Development Process



Current Policy Discussions

- ◆ IPv6
 - ◆ Rough consensus on need for different initial allocation size - /32 suggested
 - ◆ Flexible utilisation measure needed
 - ◆ Global mailing list to further discuss
 - ◆ global-v6@lists.apnic.net
- ◆ RFC2050
 - ◆ Global effort to evaluate rfc2050 to see if relevant to today's Internet
 - ◆ Mailing list
 - ◆ 2050-wg@arin.net
 - ◆ To subscribe <majordomo@arin.net>

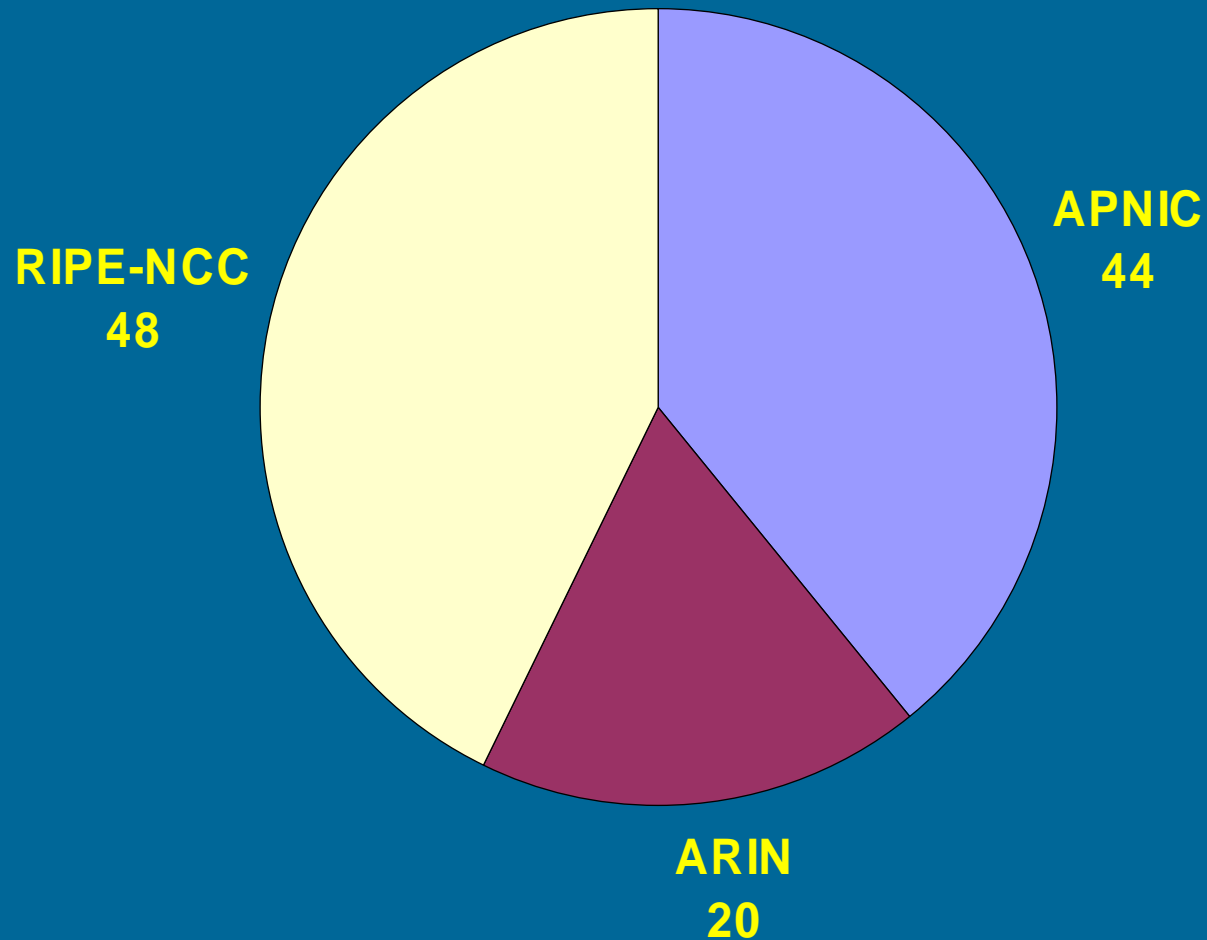


IPv6 Allocations by RIR

- ◆ APNIC
 - ◆ 44 allocations
- ◆ RIPE NCC
 - ◆ 48 allocations
- ◆ ARIN
 - ◆ 20 allocations
- ◆ List of RIR IPv6 allocations
 - ◆ <http://www.6bone.net>

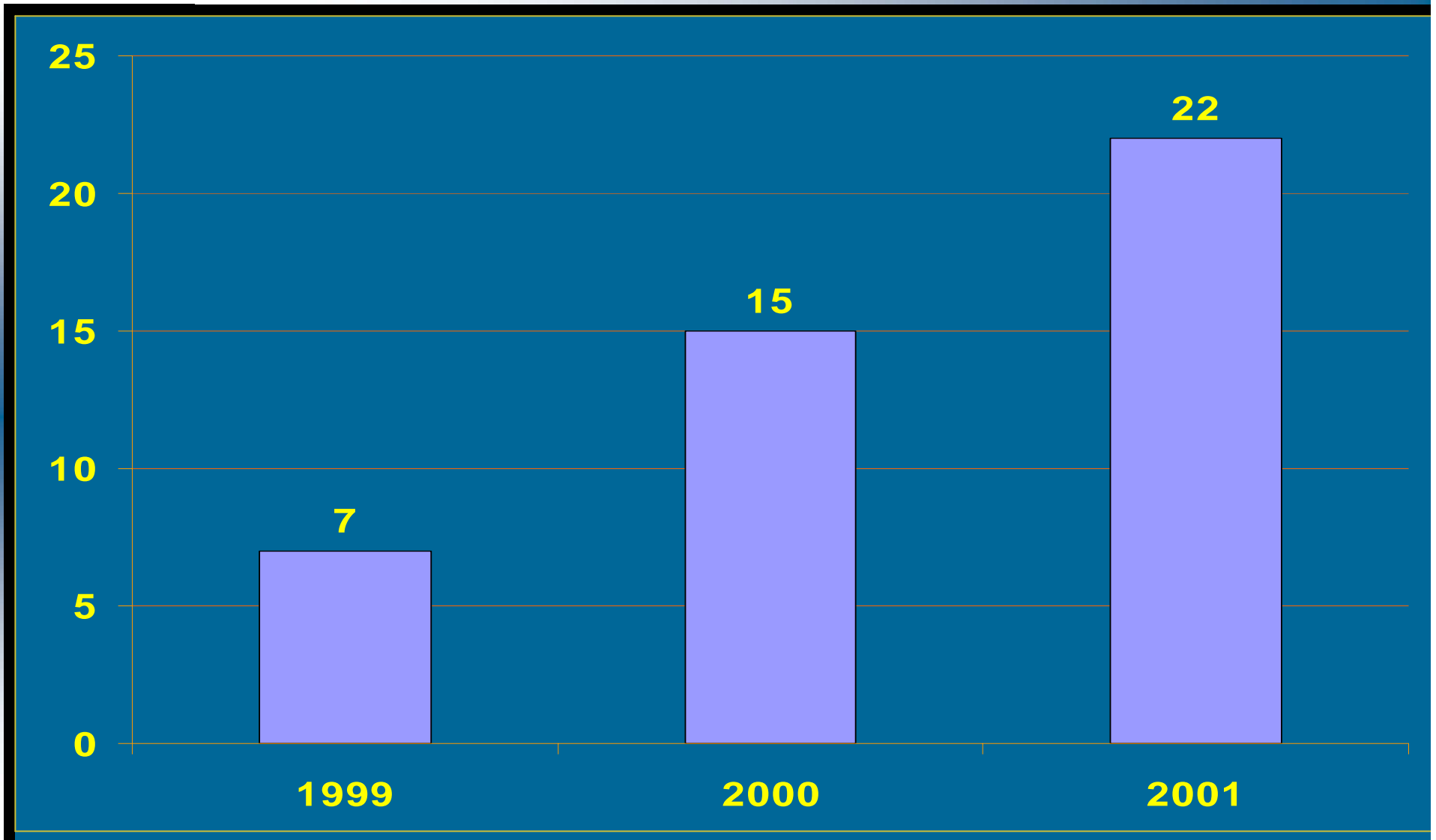
Last updated 14 Nov 2001

IPv6 Allocations by RIR





IPv6 Allocations in AP



IPv6 Allocations in AP

- ◆ By country
 - ◆ 27 JP (WIDE, NTT, INFOWEB, SINET, PANANET etc.)
 - ◆ 1 AU (CONNECT)
 - ◆ 10 KR (KOREN, ETRI, BORANET, KIX etc.)
 - ◆ 1 SG (NUS)
 - ◆ 2 TW (HINET, TANET)
 - ◆ 1 CN (CERNET)
 - ◆ 1 HK (HKNET)
 - ◆ 1 MY (MIMOS)

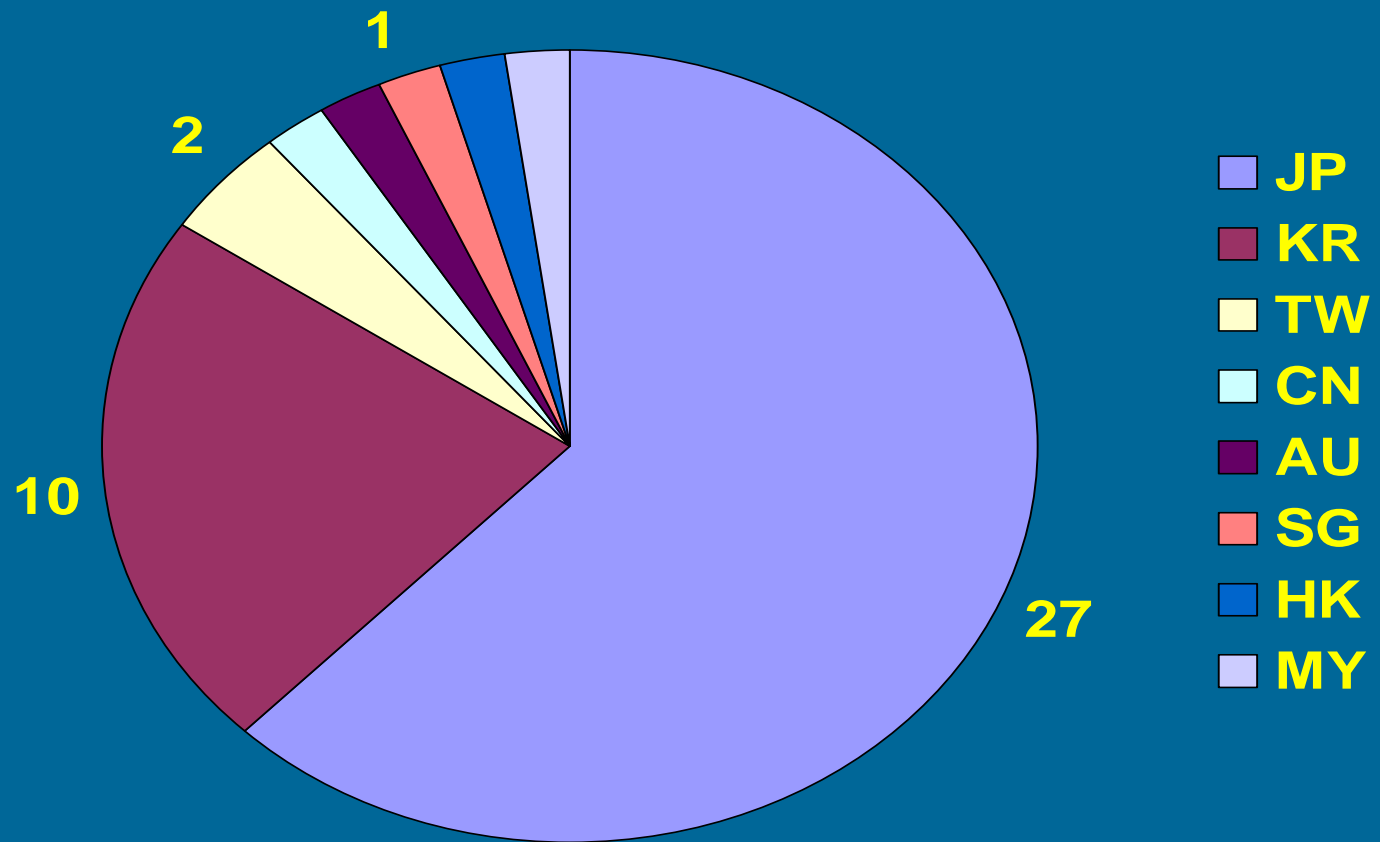


IPv6 Allocations in AP

- ◆ 6bone experience
 - ◆ Yes 17
 - ◆ No 27

- ◆ Type of organisations
 - ◆ 9 Research
 - ◆ 3 Government
 - ◆ 32 Commercial ISPs

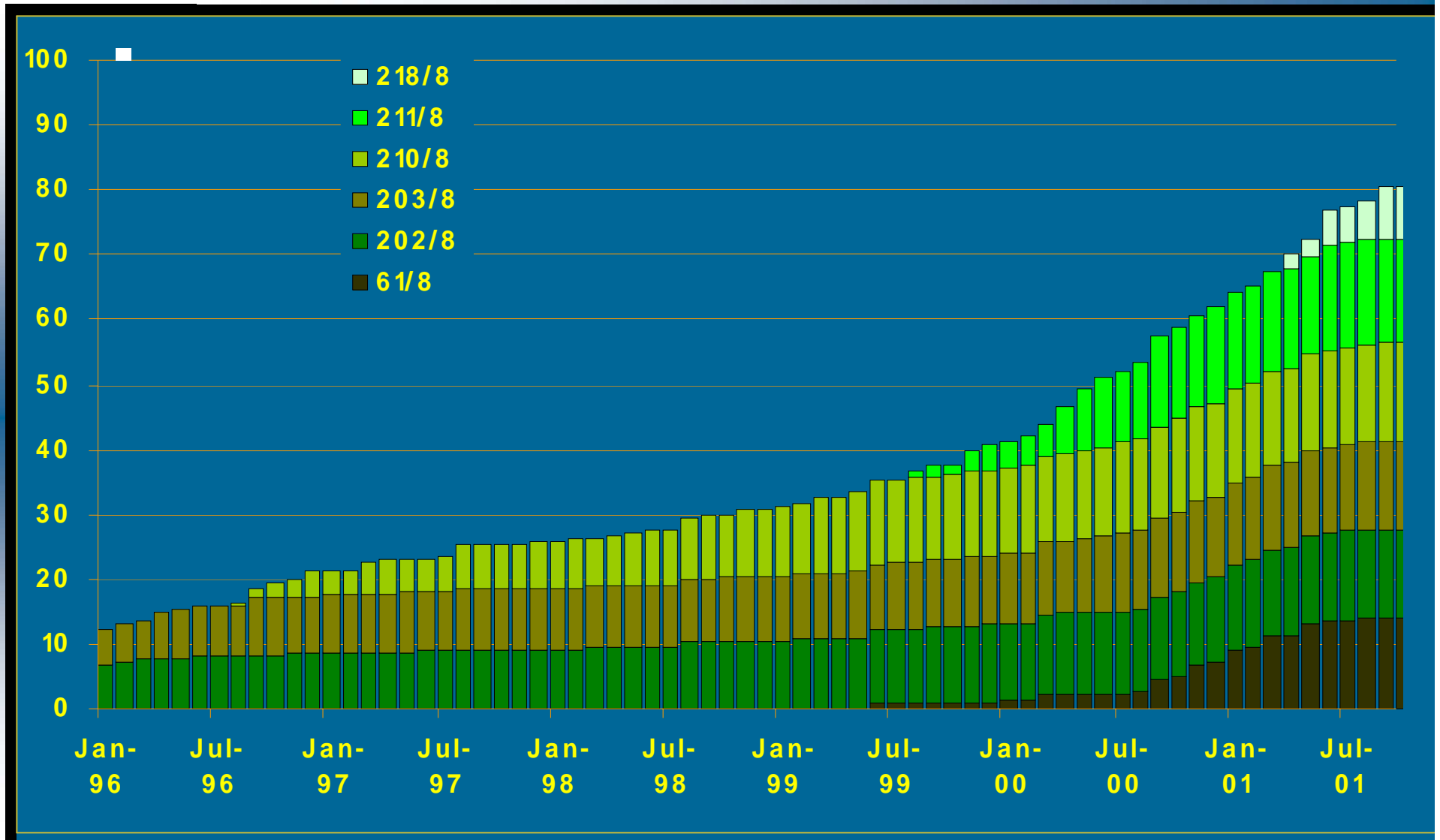
IPv6 Allocations in AP





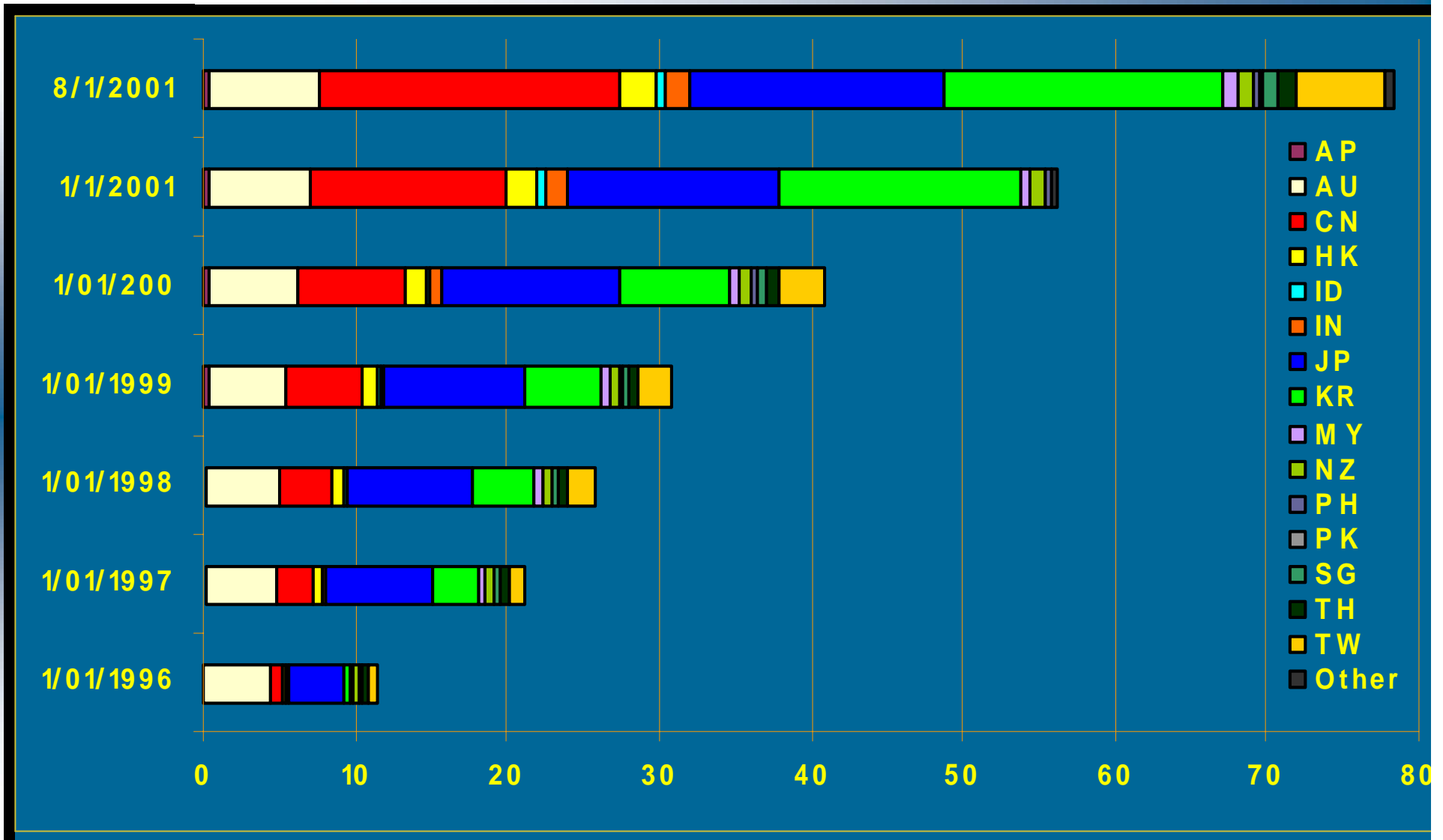
APNIC

IPv4 Allocations - Total



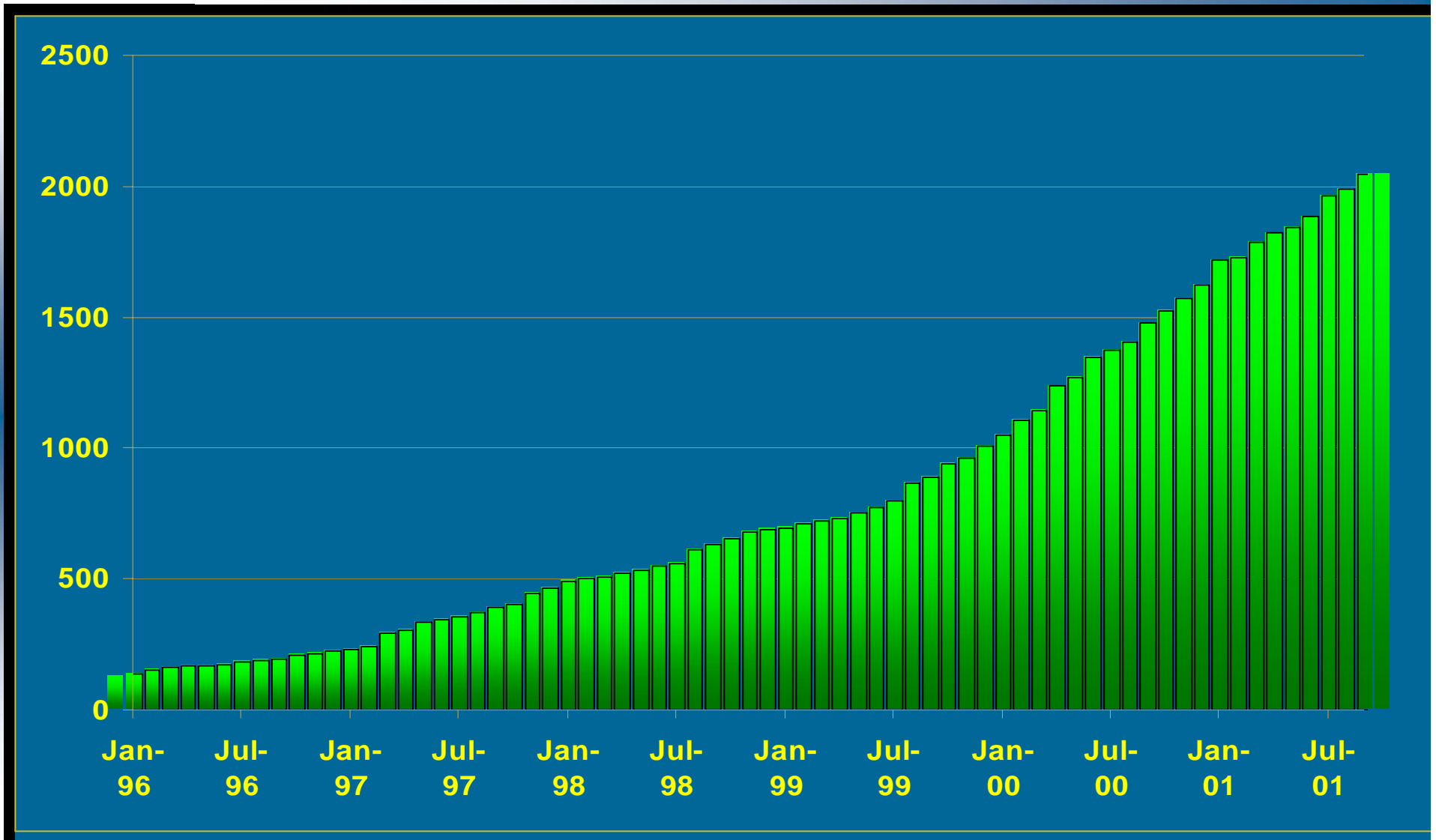


IPv4 Allocations - Distribution

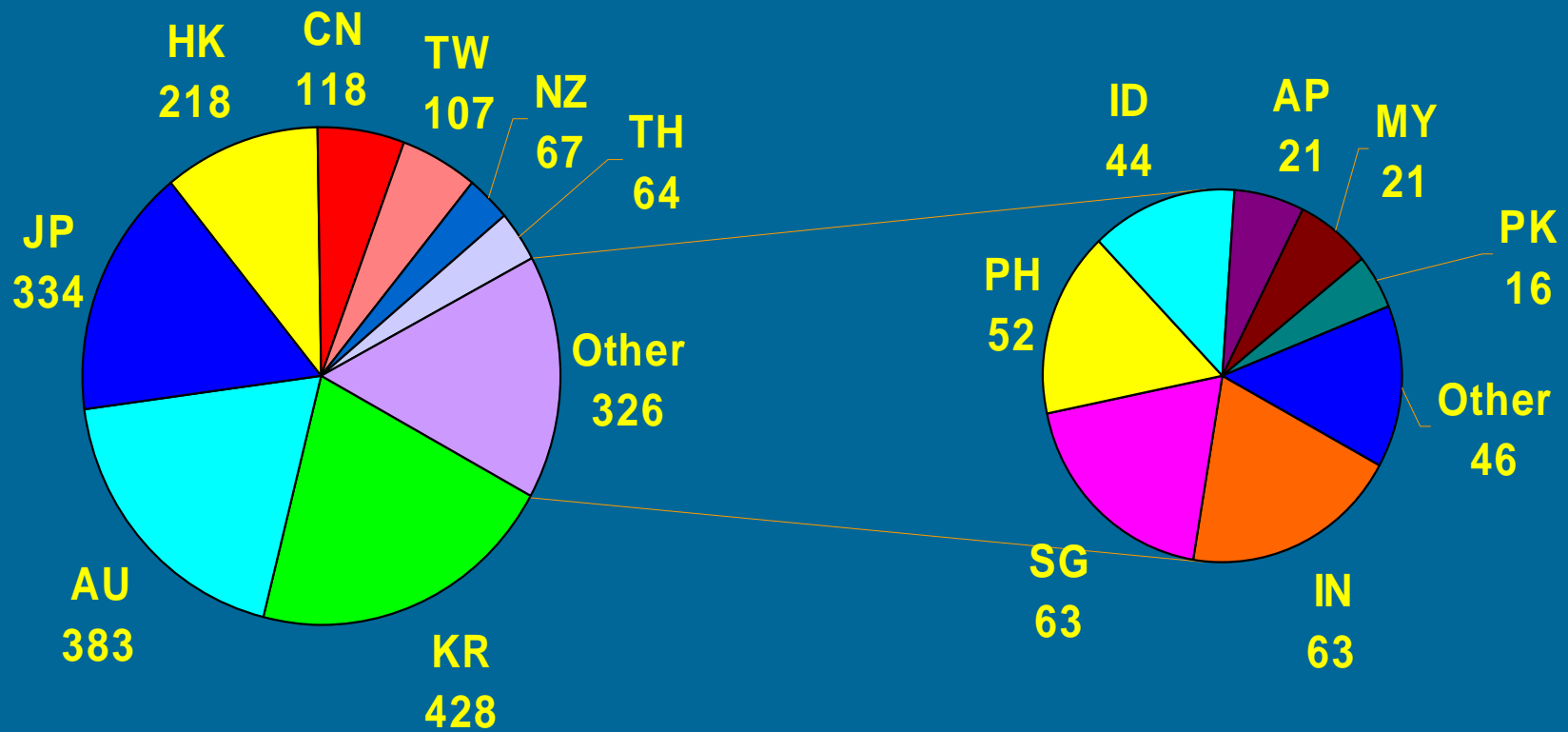




ASN Allocations - Total



ASN Allocations - Distribution





Questions?