

APNIC resource allocations

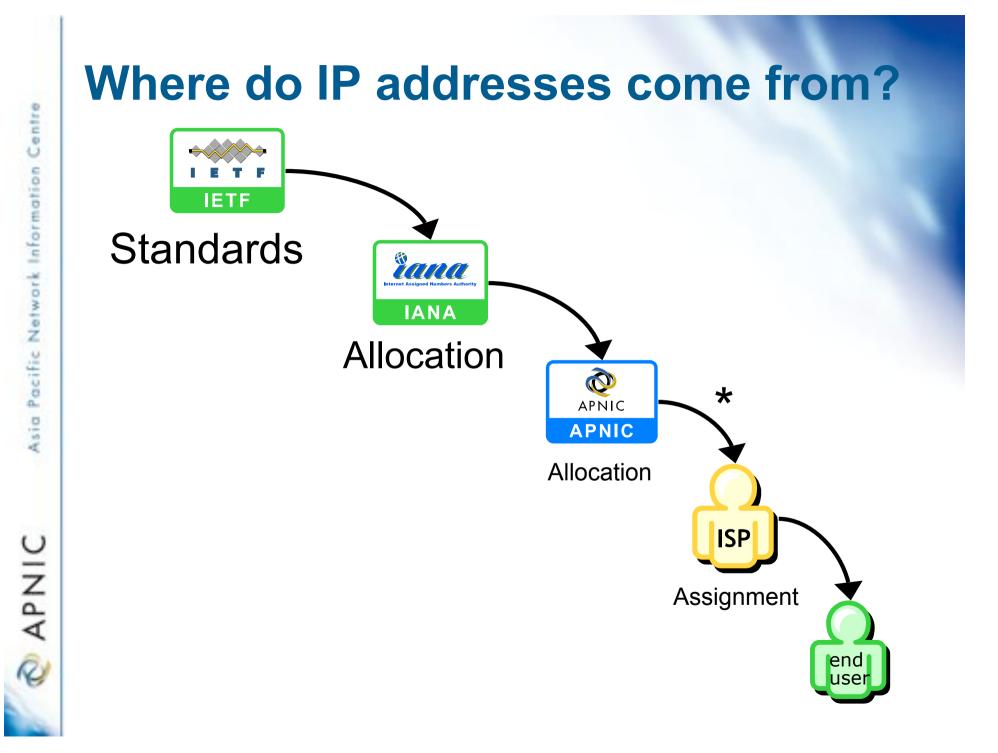
SANOG 13 Lahore, Pakistan 22 January 2009

Nurul Islam Roman Internet Resource Analyst

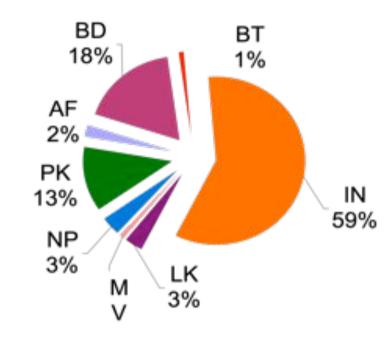
What's an IP Address?

- Internet infrastructure addresses
- Uniquely assigned to Internet endpoints
- Usage is publicly registered
- Addresses are a finite "Common Resource"
- Addresses are "IPv4" or "IPv6"
 - IPv4: 4 billion unique addresses
 - IPv6: 256 million trillion addresses?





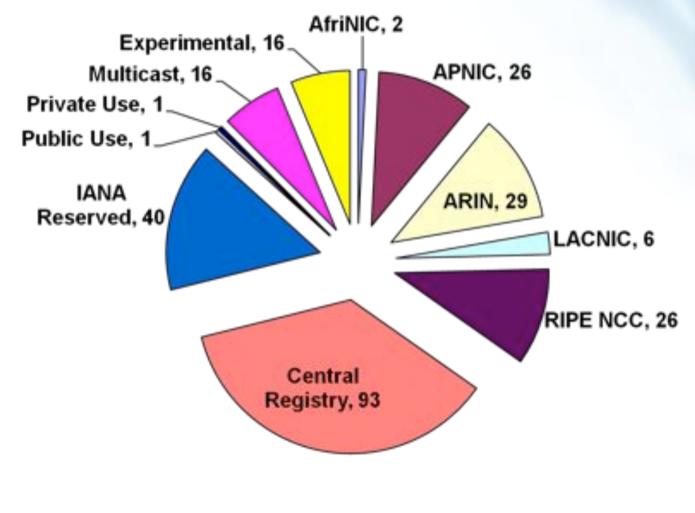
APNIC Members in South Asia



Total SA members: 438 Total APNIC members: 1760 IN 258 BD 77 PK 55 NP 15 SL 15 AF 10 BT 4 MV 4

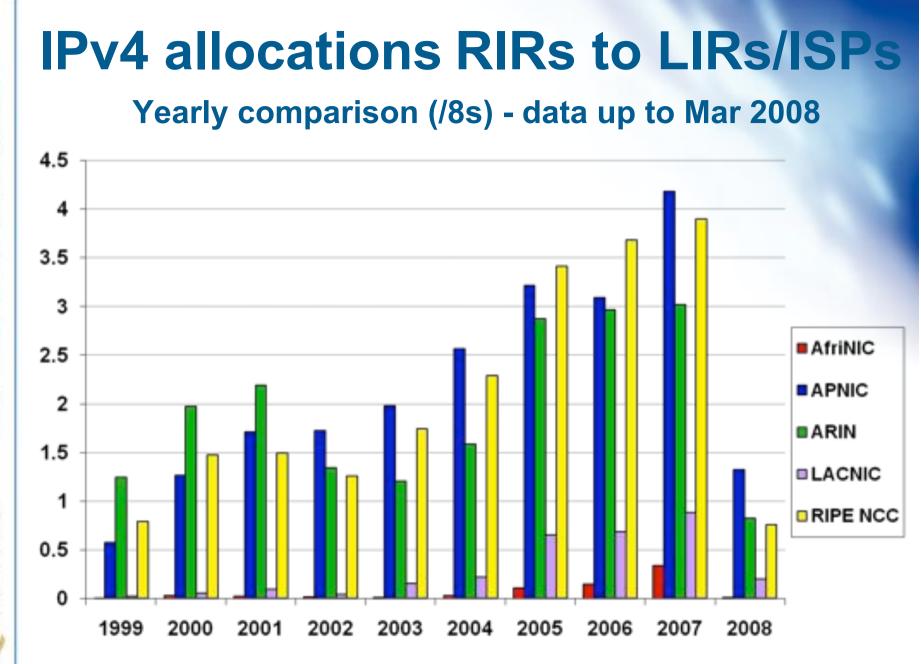
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Distribution of IPv4 /8 blocks



Total /8 blocks: 256

APNIC



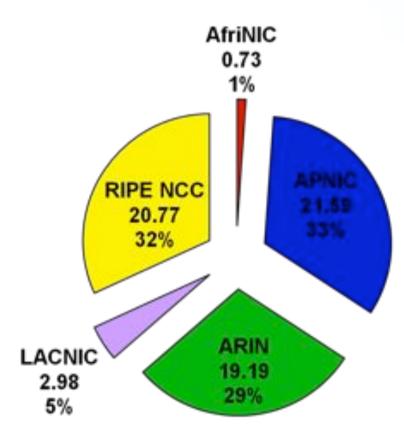
Asia Pacific Network Information

Centre

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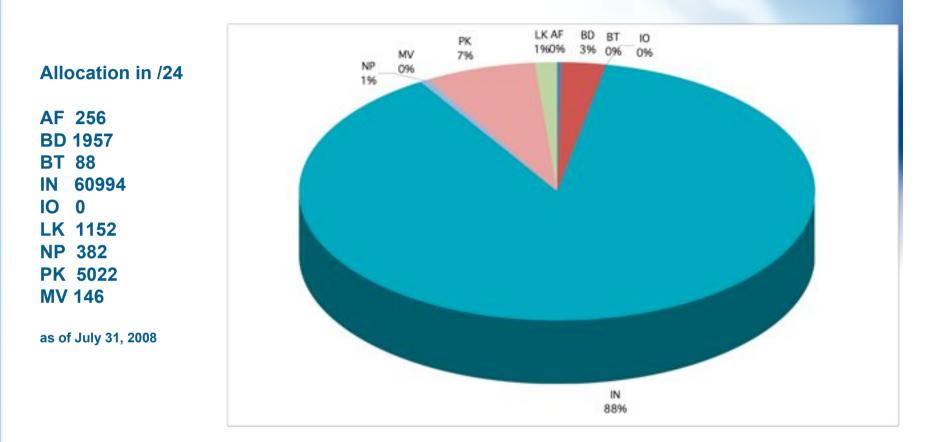
IPv4 allocations RIRs to LIRs/ISPs

Cumulative total (Jan 1999 – Mar 2008)



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IPv4 delegations in South Asia



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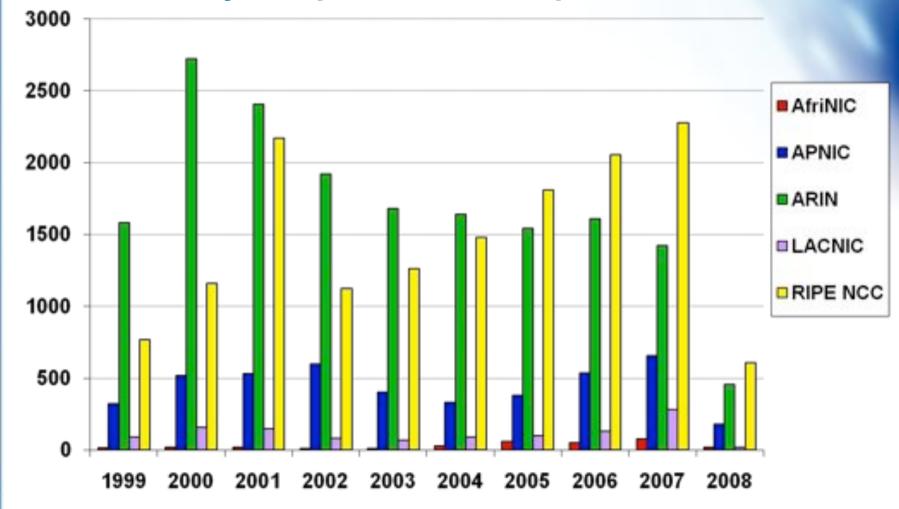
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Total SA delegations : 69997 /24 Total APNIC delegations: 1855089 /24s

ASN assignments: RIRs to LIRs/ISPs

Yearly comparison - data up to Mar 2008

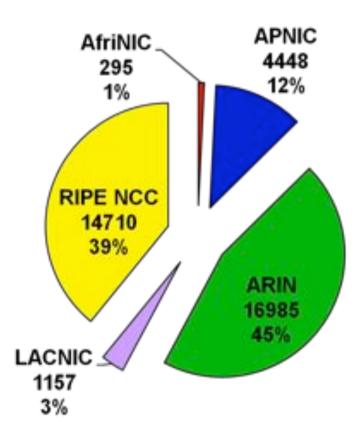


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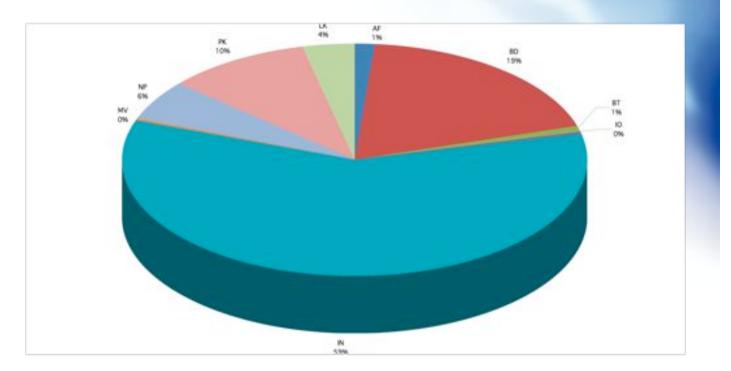
ASN assignments: RIRs to LIRs/ISPs

Cumulative total (Jan 1999 - Mar 2008)



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ASN assignments in South Asia



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AF 6

BT 4 IN 257 IO 1 LK 16 NP 24

PK 43 MV 2

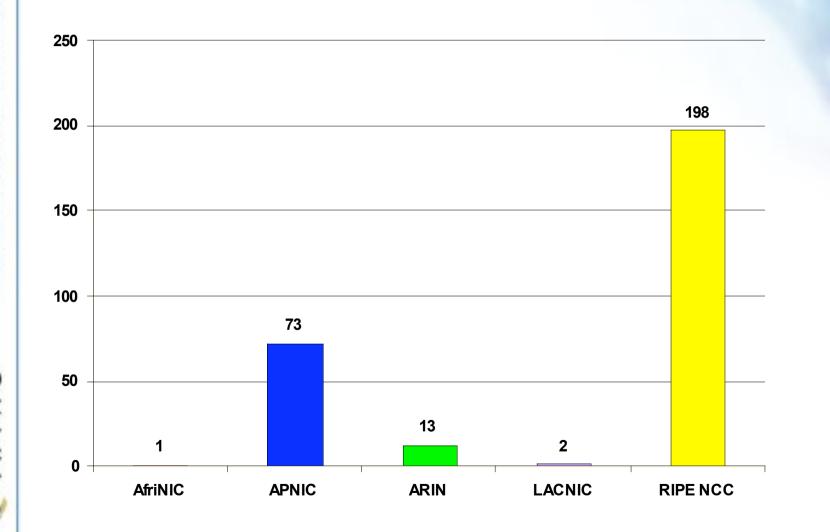
BD 82

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Total SA assignment: 435 Total APNIC assignment: 4681

IANA IPv6 allocations to RIRs

issued as /23s prior to Oct 2006



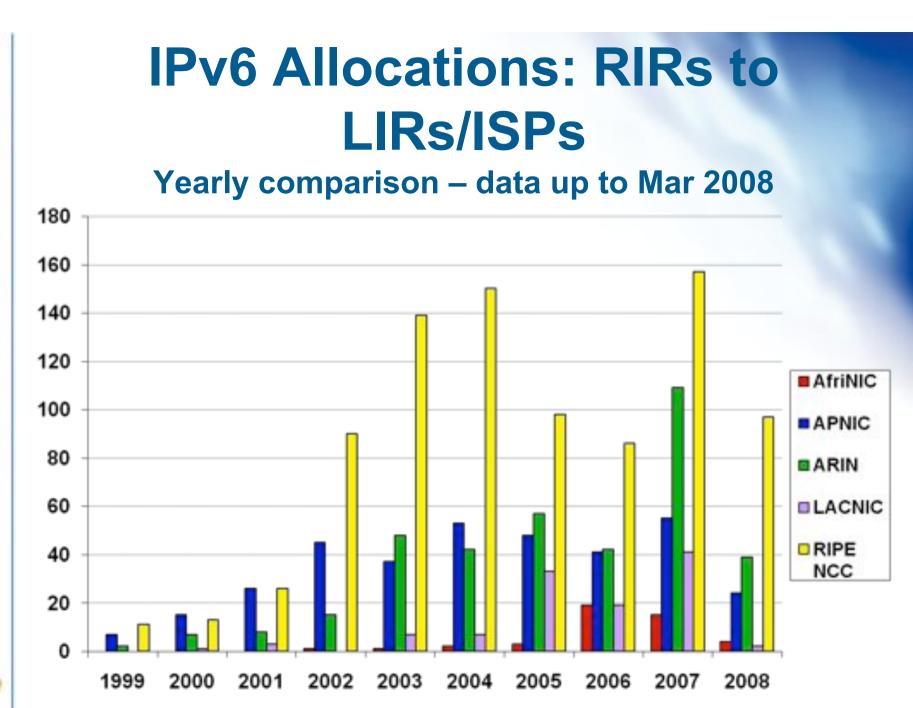
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IANA IPv6 allocations to RIRs issued in Oct 2006

RIR	IPv6 Address
AfriNIC	2C00:0000::/12
APNIC	2400:0000::/12
ARIN	2600:0000::/12
LACNIC	2800:0000::/12
RIPE NCC	2A00:0000::/12

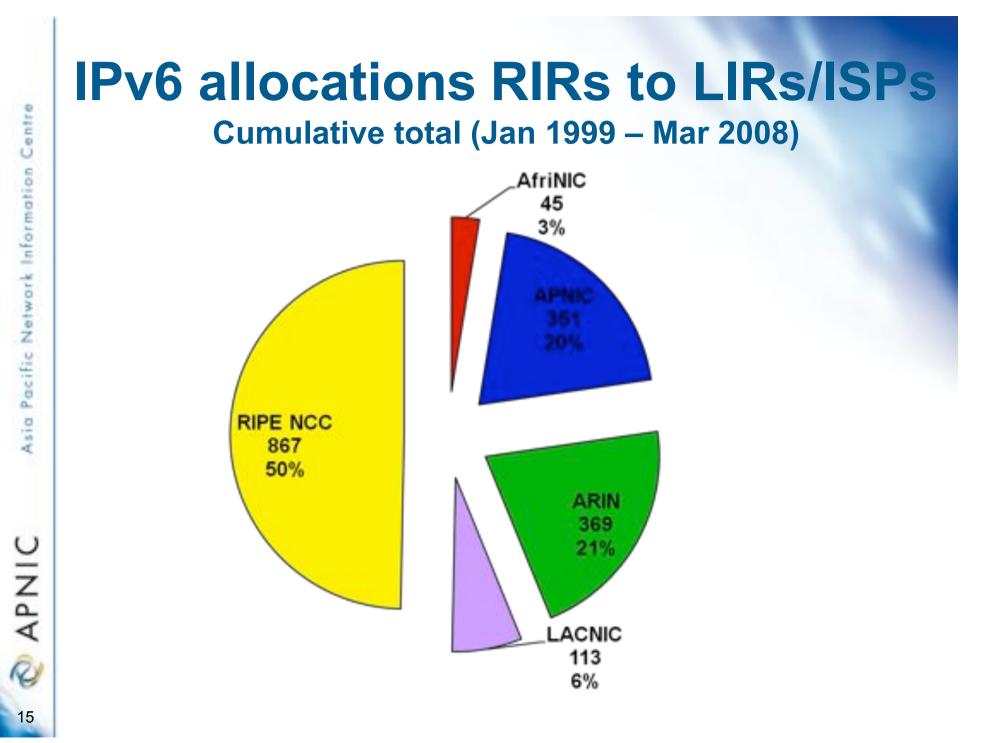
Some /23s from the previous slide are incorporated in these /12s



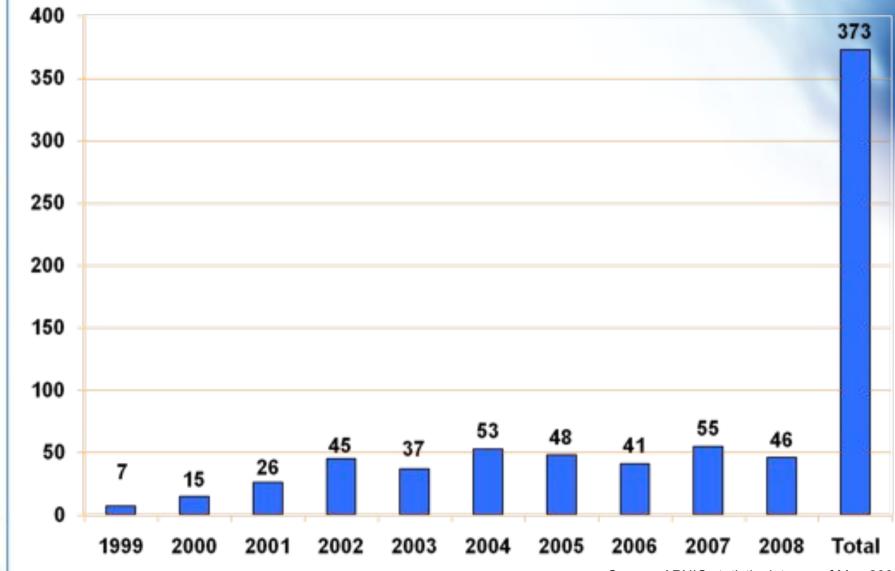
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APNIC IPv6 delegations by year (allocation)

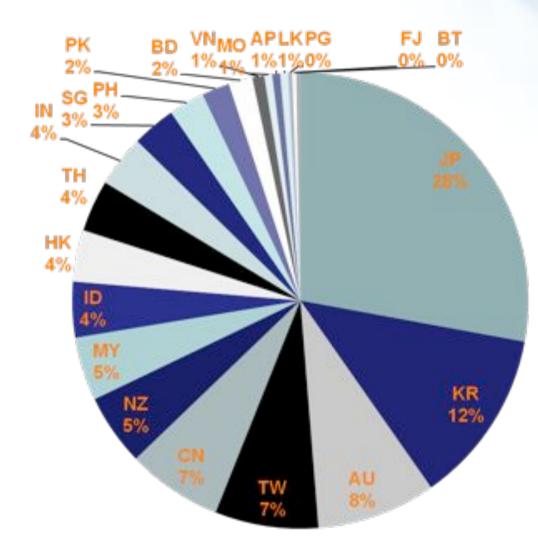


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Source: APNIC statistic data, as of May 2008

APNIC IPv6 allocation by economy



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Source APNIC statistics data, as of May 2008



IPv6 delegations in South Asia

Economy	Number
BD	6
IN	17
LK	2
PK	7
Total	32

Total IPv6 delegations in SA: 32(/32) Total IPv6 delegations in AP : 455(/32)

Recently implemented policies (August 2008)

- prop-053: Changing minimum IPv4 allocation size to /22
 - The minimum IPv4 allocation size was reduced from /21 to /22
- prop-057: Proposal to change IPv6 initial allocation criteria
 - Current LIRs with an existing IPv4 allocation from APNIC or an NIR can now justify an IPv6 initial allocation without documenting a plan for making 200 assignments.

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Recently implemented policies (February 2009)

- prop-062: Use of final /8
 - Each APNIC account holder will be eligible to request and receive a single allocation from the last remaining /8 worth of space in the unallocated pool. In addition, APNIC will reserve a /16 from the final /8 worth of space for future uses, as yet unforeseen.
- prop-066: Ensuring efficient use of historical IPv4 resources
 - All historical address allocations will be included when assessing a network's eligibility for more IPv4 addresses.

Recently implemented policies (February 2009)

- prop-064: Change to assignment policy for AS numbers
 - From 1 July 2009, if a network requests a two-byte AS number from APNIC, the network will need to document why it cannot use a four-byte AS number.

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Policy proposals at APNIC 27

- IPv4 transfer proposals
 - prop-050: IPv4 address transfers
 - prop-067: A simple transfer proposal
- Discussion on proposals continuing from APNIC 26:
 - prop-060: Change in the criteria for the recognition of NIRs in the APNIC region
 - prop-063: Reducing timeframe of IPv4 allocations from twelve to six months

APNIC meetings

- APNIC 27
 - With APRICOT 2009, Manila, Philippines,
 - -23 27 February 2009
- All invited !!!
 - http://www.apnic.net/meetings

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APNIC meeting remote participation

Contribute on the public mailing lists

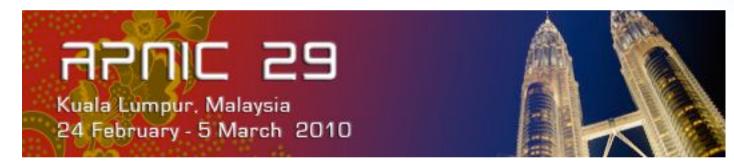
- http://www.apnic.net/community/lists/index.html

- Participate remotely
 - Participate in discussions, ask questions to the presenter, voice your opinion through jabberchat
 - Webcast, podcast, live transcripts
 - <u>http://www.apnic.net/meetings/remote/</u>

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APNIC meetings – future...





In conjunction with APRICOT 2010

- All invited !!!
 - http://www.apnic.net/meetings

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