

APNIC Open Policy Meeting Showcase

Welcome!

SANOG 9

14-24 Jan 2007

Colombo, Sri Lanka

Overview of today's session

- Speaker introductions ←
- What is APNIC?
- APNIC structure & APNIC Community
- Importance of SA in APNIC region
- Benefits of attending APNIC OPM
- Policy development process
- Participation at APNIC OPMs

Presenters

- Srinivas Chendi (Sunny)
Online Services Officer
- Kapil Chawla
Liaison Officer (South Asia)
- Champika Wijayatunga (Champ)
Senior Training Specialist

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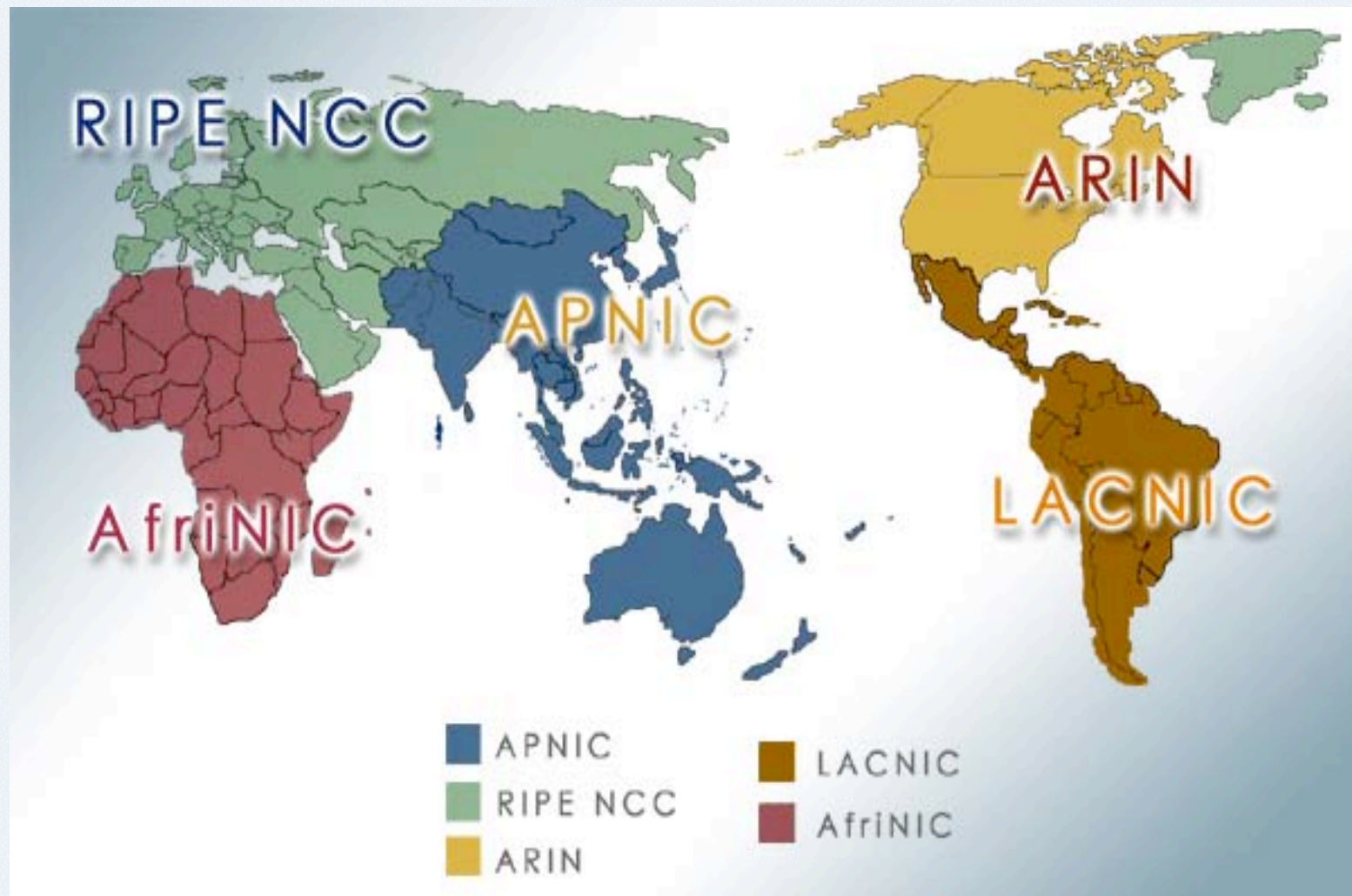
About APNIC

- What is APNIC ?
 - The Regional Internet Registry (RIRs) for Asia Pacific region
 - One of five RIRs in world
- What are the core activities of APNIC?
 - **IPv4 & IPv6 address** and **AS number** distribution in the Asia Pacific
 - Resource database registration
 - Reverse DNS management

About APNIC

- Industry self-regulatory body
 - Consensus-based, open, and transparent decision-making and policy development
 - Non-profit, neutral, and independent
- Open membership-based
 - Open participation
 - You don't have to be a member to participate
 - Everyone is welcome!

Where is the APNIC region?



APNIC is NOT

- A network operator
 - Does not provide networking services
 - Works closely with APRICOT
- A standards body
 - Does not develop technical standards
 - Works within IETF in relevant areas (IPv6 etc)
- A domain name registry or registrar
 - Will refer queries to relevant parties

Services - Resource management

- IPv4
- IPv6
- Autonomous System Numbers (ASN)
- Reverse DNS
- Whois
- Internet Routing Registry (IRR)



Services – Member support



- Multilingual helpdesk
 - 61-7-38583188
 - helpdesk@apnic.net
- Live chat
 - <http://www.apnic.net/helpdesk/index.html>
- VoIP
 - helpdesk@voip.apnic.net
- MyAPNIC
- ICONS

Please send all resource requests to hostmaster@apnic.net

Services – Training and Education

- Core courses
 - IRM (Internet Resource Management)
- Tutorials
 - IRR, IPv6, SPAM, Security
- Workshops
 - DNS, Advance DNS, Routing, IPv6
- eLearning
- Online materials
- Online schedules



Questions?



“What is APNIC” The movie...

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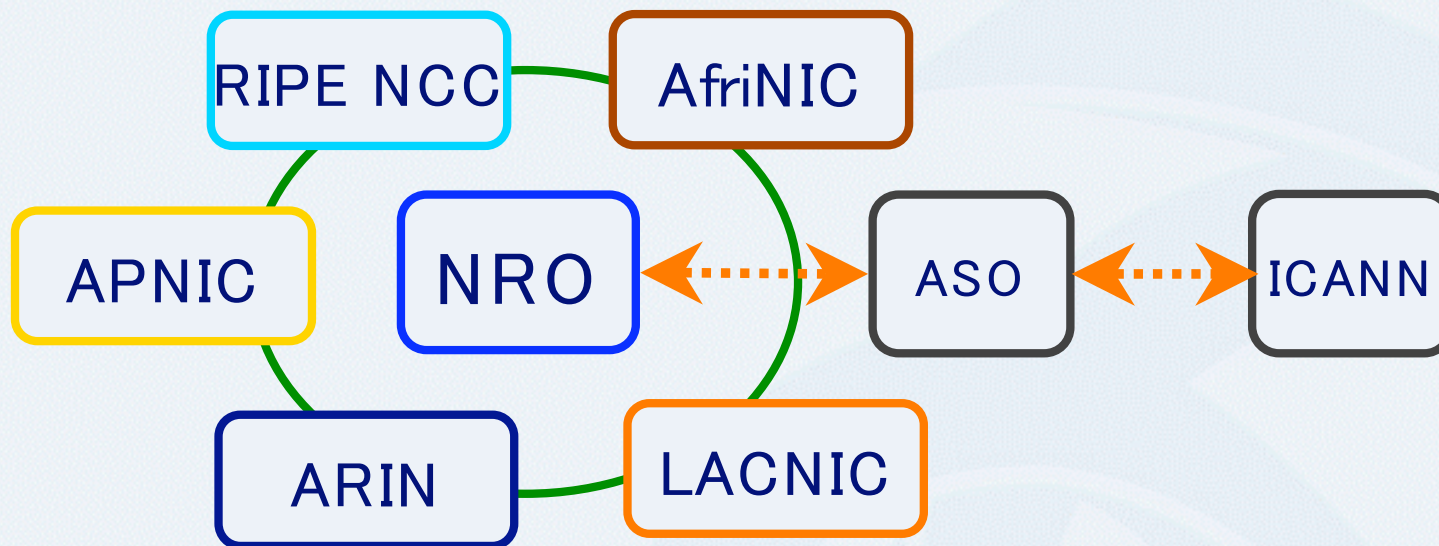
APNIC structure

- Members
- Secretariat
- Executive Council
- Industry self-regulatory
 - Participation by those who use Internet resources
 - Consensus-based decision making
 - Eg. Policy changes, db requirements etc
 - Open and transparent

What is the APNIC community?

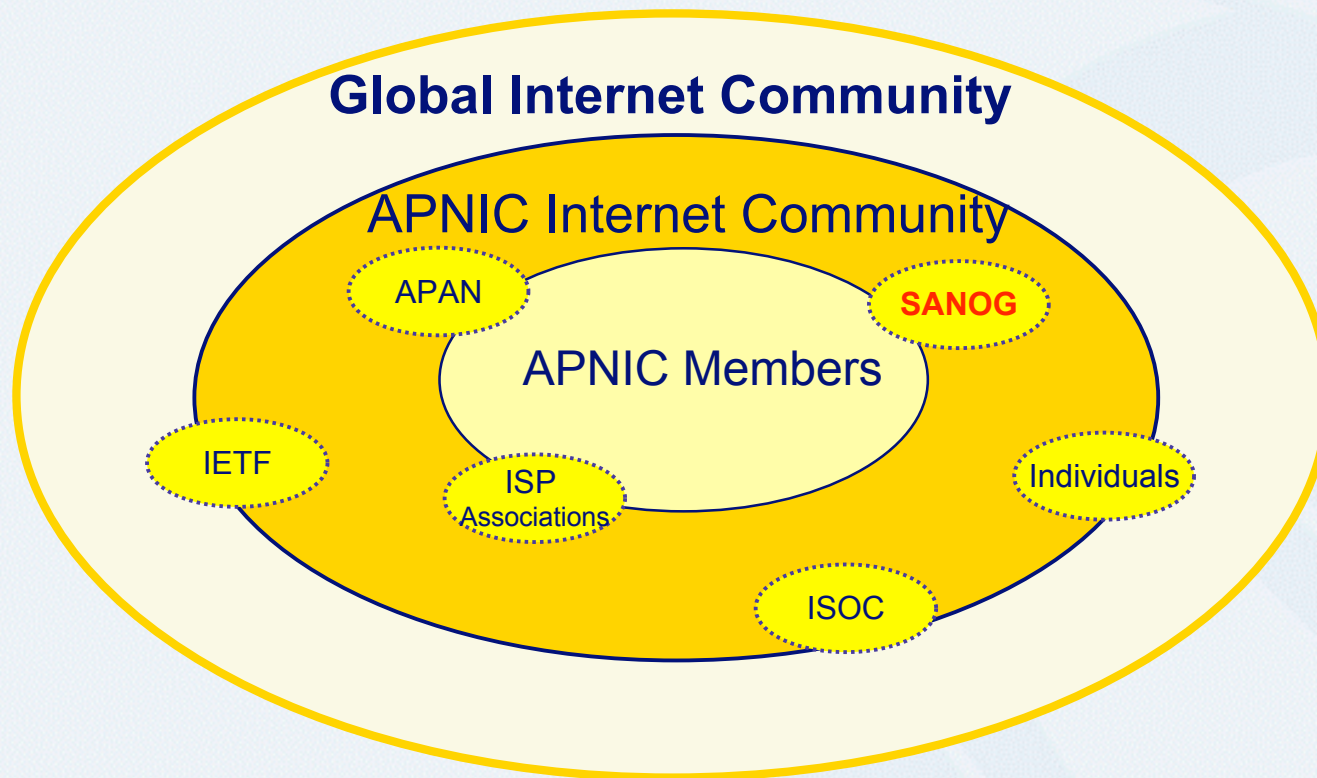
- **Open** forum in the Asia Pacific
 - Open to any interested parties
- Voluntary participation
- Decisions made based on consensus
- Public meetings
- Mailing lists
 - web archived
- *A voice in regional Internet operations through participation in APNIC activities*

Global Internet community



You are part of APNIC community!

- **Open** forum in the Asia Pacific
 - Open to any interested parties



Questions?



Quiz

What are the core activities of APNIC?

- Distribution of IPv4, IPv6 and ASNs
- Database registration
- Reverse DNS management



Quiz

Name any three APNIC Internet communities?

- APNIC members
- SANOG
- IETF



Next speaker : Champika

Background

- Senior Training Specialist

Topics

- Importance of SA in APNIC region

Overview of today's session

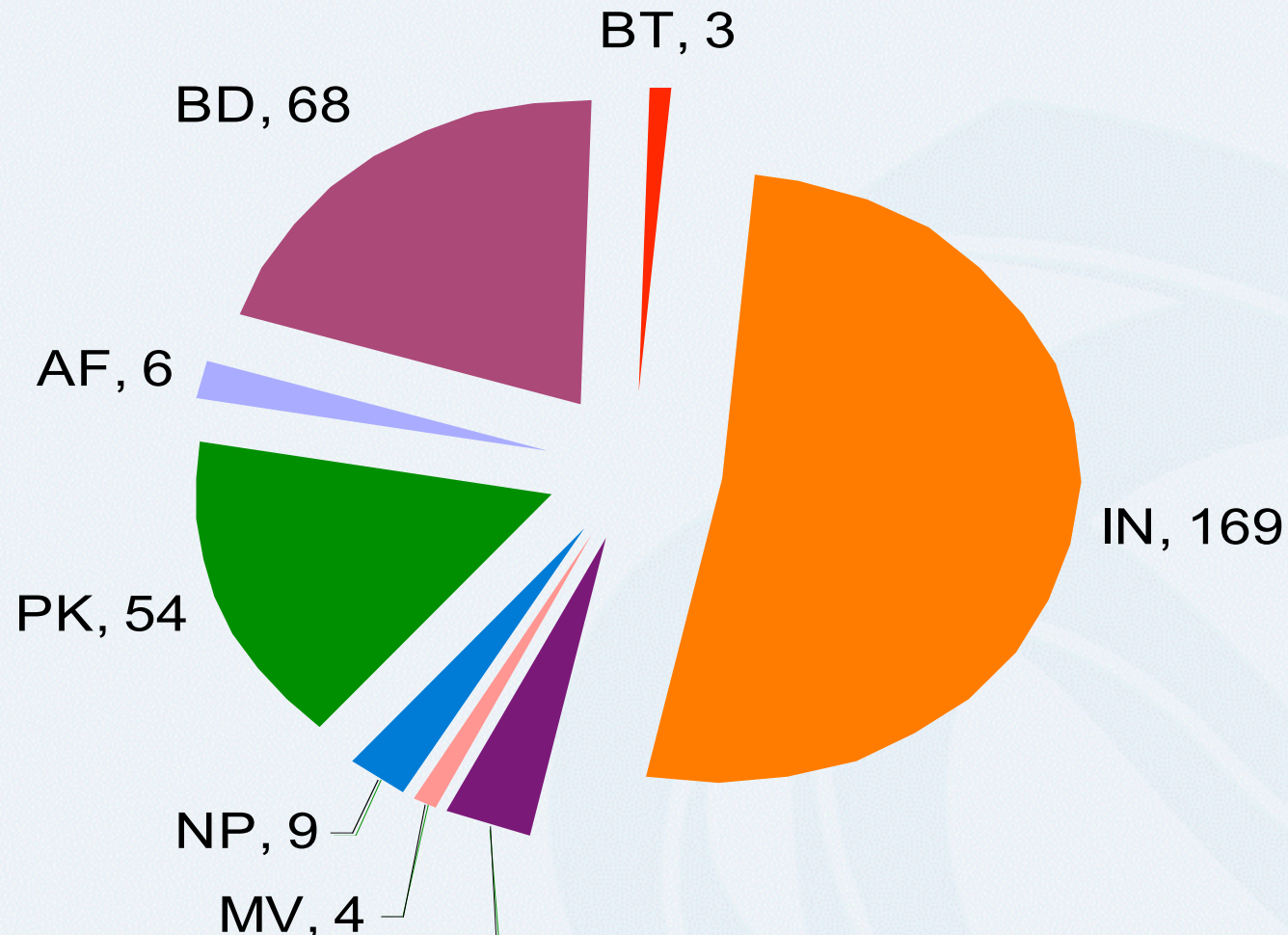
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Importance of SA in APNIC region

Importance of SA in APNIC region

- Marked growth as seen in numbers
 - Membership, IPv4, IPv6, ASN
- APNIC recognises growth in SA
- Recognition
 - More Collaborations
 - More support to SANOG
 - Root servers deployment
 - More training

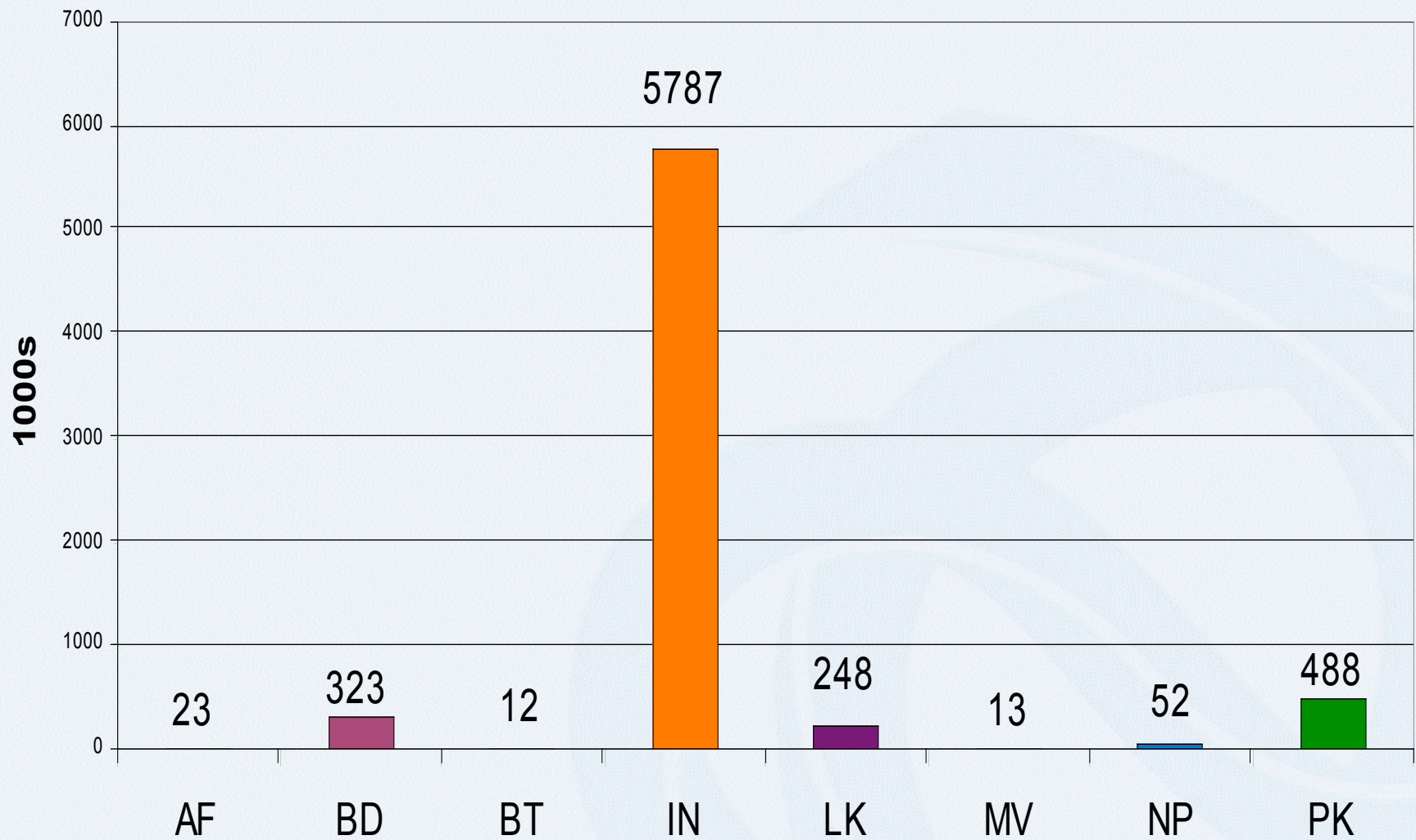
APNIC Membership in SA : 306



Total APNIC membership: 1366

Data valid as of 31 Dec 2006

IPv4 delegations in SA



Data valid as of 31 Dec 2006

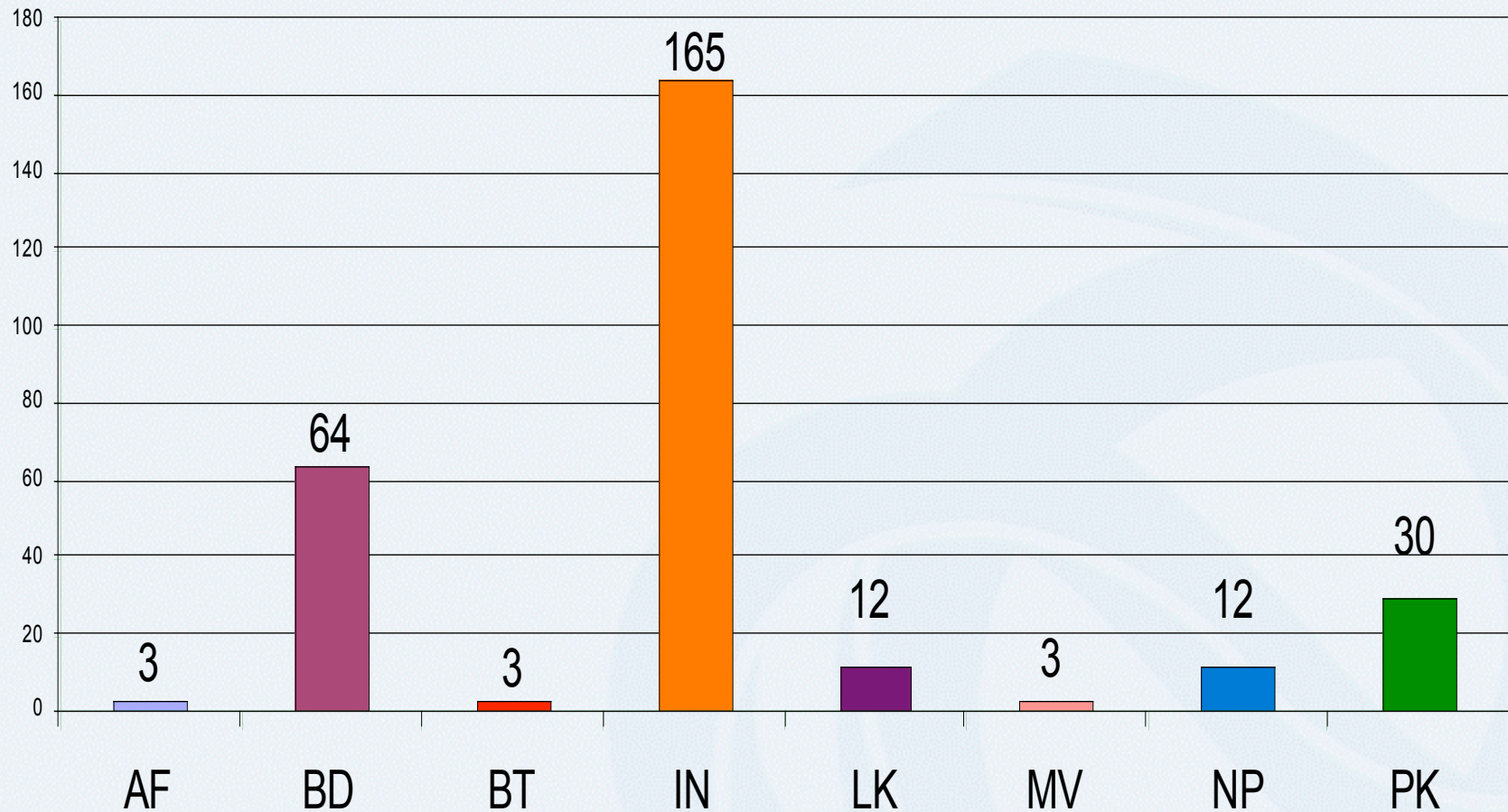
IPv6(/32) delegations in SA: 19

Economy	Number
BD	1
IN	14
PK	4
Total	19

Total IPv6(/32) delegations in AP : 8317

Data valid as of 31 Dec 2006

ASN assignments in SA : 292



Data valid as of 31 Dec 2006

Collaboration

- MoUs with industry
 - ISPAs
 - ISPAB, ISPAI, LISPA, ISPAN, ISPAK
 - SANOG
 - NIXI
- Key areas of collaboration
 - Promoting infrastructure development
 - Exchange of information
 - Training programs
 - Training programs Universities



Critical infrastructure deployments





Recent training activities in SA

Year 2006 / 2007		
Course	Date	Location
SANOG 7	16-24 Jan	Mumbai
IRME	25 Jan	Mumbai
SANOG 8	27-4 Aug	Karachi
IRME	8 Aug	Delhi
DNS <small>workshop</small>	10-12 Aug	Hyderabad
Routing <small>Workshop</small>	13-19 Oct	Dhaka
IPv6 <small>Workshop</small>	15-17 Oct	Colombo
IRME	19 Jan	Colombo

Other training options

- Webcast (New)
 - First IRME, 29th May
- eLearning

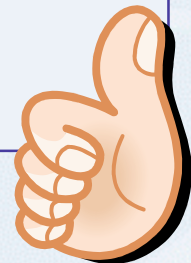
<http://www.apnic.net/training/schedule/index.html>

Quiz



How many IPv6 delegations have been made SA?

16 IPv6 delegations have been in SA

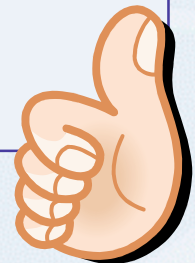


Quiz



How many root servers were installed in SA with assistance from APNIC?

APNIC assisted in installing **5** root servers in SA.



Questions?



Next speaker : Kapil

- Background
 - Liaison Officer (South Asia)
- Topics
 - Benefits of attending APNIC OPM
 - Policy development process

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- Speaker introductions
- What is APNIC?
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- **Benefits of attending APNIC OPM ←**
- Policy development process
- Participation at APNIC OPMs

Benefits of attending APNIC OPM



Have you been to an APNIC meeting before?

Did you know that fellowships are available?



Overview

- Professional & career development benefits
- Educational benefits
- Understand the APNIC OPM processes
- Business benefits
- Social benefits



Professional & career benefits

- Stay abreast with developments in Internet and network technologies
- Acquire & develop new skills
- Learn hot tips on network operations & management



Educational benefits

- Attend
 - Workshops
 - Tutorials
 - Presentations
- Exchange information & knowledge with
 - Other network operators
 - Vendors
 - Academics
 - Researchers



Understand the OPM processes

- Meeting activities
 - Member meeting & keynote address
 - SIGs (Special Interest Groups)
 - EC elections
 - BOFs (Birds Of a Feather)
 - Present & listen to proposals & reports
- Provide your input on matters important to you

Business benefits

- Developing contacts & partnerships
- Business development
- Sponsorship opportunities
- Low cost training by industry experts
- Learning hot tips reduces operational costs
- Access to APNIC helpdesk

Social benefits

- Make new acquaintances
- Renew ties with old acquaintances
- Meet APNIC staff and EC
- Meet industry experts
- Exposure to different Internet cultures
- Attend social events
- Newcomers programme for first time attendees

What do APNIC meetings look like?



What do APNIC meetings look like?

Presentations



Workshops/Tutorials



Reports / Proposals



Discussions / Clarifications



OPM Movie

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Policy development process

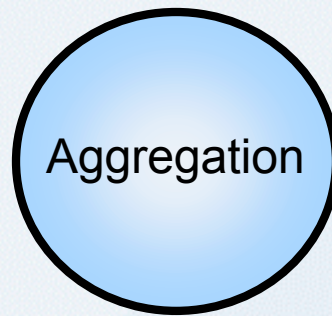
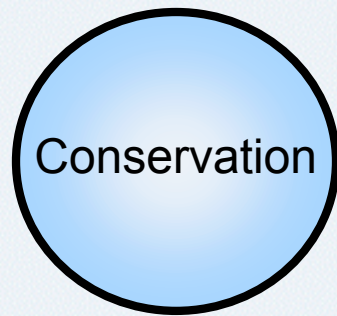
APNIC policy can impact your
business... positively

Why you should participate?

- Business reasons
 - Policies affect your business operating environment and are constantly changing
 - Ensure your 'needs' are met
- Responsibility as APNIC member
 - Understand the current policies for managing your IP address space
- Educational reasons
 - Learn and share experiences
 - Stay abreast with Internet 'current best practice'

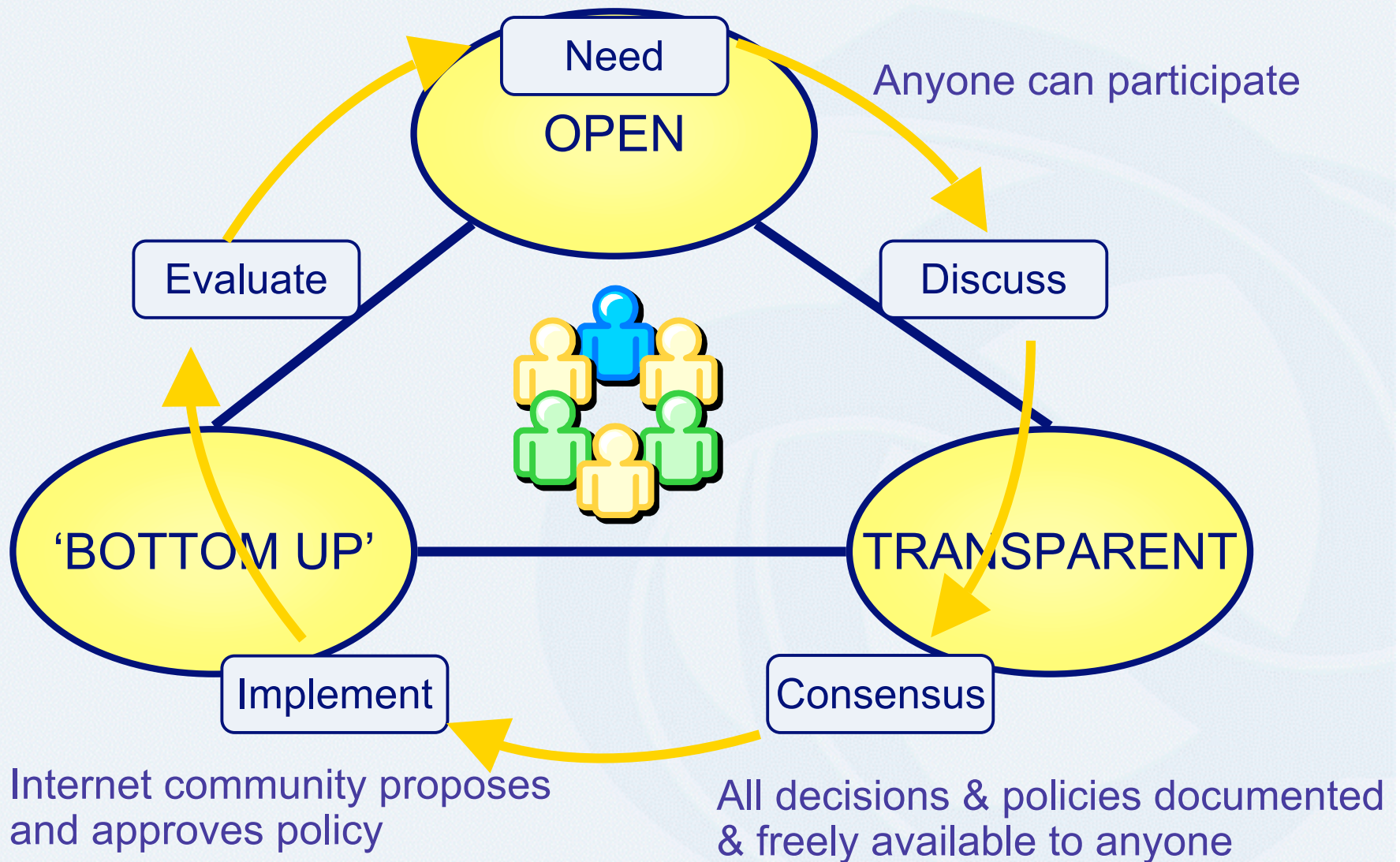
Policy in the APNIC region

- Policy goals
 - Lessons learnt from past



- Who creates policy?
 - *You* as part of the Internet community
 - Policy changes are also driven by changes in industry
- Policy development open to all

Policy development cycle



The policy development process

Need Discuss Consensus Implement



How to participate?



Case studies

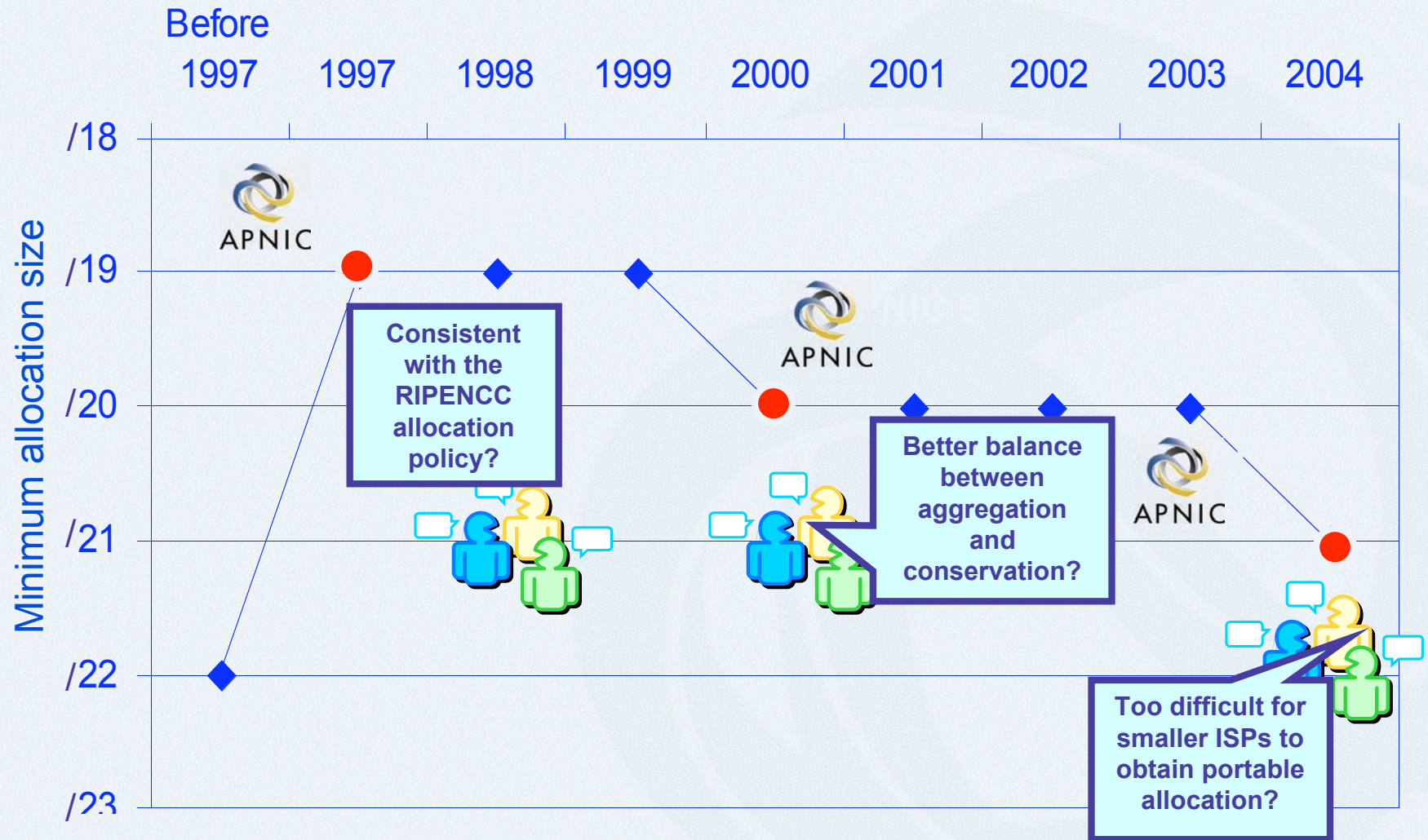
Case 1: Changes to the minimum allocation size

- 1998
 - Your IPv4 request for a /21 would have been declined
 - Why ?
 - Must satisfy criteria for a /19 minimum allocation
 - Instead you would have to go to your upstream
- Problem!!
 - Small independent networks were having problems obtaining IP addresses from their upstream ISPs
- Solution
 - Policy modified via policy development process
 - Criteria changes and lowering of minimum allocation size

Case 1: Changes to the minimum allocation size

- 1998
 - If you can not satisfy a /19 address (8192 IP addresses) allocation requirements you won't be able to get IP addresses from APNIC
 - Instead you would have to go to your upstream
- Problem!!
 - Small independent networks were having problems obtaining IP addresses from their upstream ISPs
- Solution
 - Policy modified via policy development process
 - Criteria changes and lowering of minimum allocation size

Case 1 – IPv4 allocation size



Case 2: Minimum IPv6 allocation size

- IPv6 min allocation changed from /35 to /32
 - Discussed global-ipv6, Dec 2001
 - Implemented July 2002
- Motivation
 - /32 sufficient for first deployment
 - Ease of reverse DNS delegation

Internet policy - what about you?

- Have an awareness of current discussions
 - Operational
 - SANOG, IETF, RIR meetings, ICONS, etc
 - Policy
 - Internet resource management
- Participate in APNIC meetings
 - Get involved in discussions
 - Create policies that work for you


Facilitating the process

- Policy development facilitation
 - APNIC secretariat is first contact
 - SIG chairs check suitability
 - Discussion in appropriate mailing list
 - Discussion in upcoming SIG and AMM
 - Decision by consensus
- Want a policy change?
 - Discuss with peers
 - Have your say
 - Secretariat happy to assist if needed



Policy page

<http://www.apnic.net/docs/policy/index>



APNIC

- MyAPNIC
- Info & FAQ
- Services
- Training
- Meetings
- Membership
- Policy
- Internet community
- Search
- Home

APNIC policies and policy development

Asia Pacific Network Information Centre

You're here: [Home](#) » APNIC policies and policy development

Quick Links

APNIC policies and policy development

APNIC's policies are developed by the membership and the broader Internet community through a bottom-up process of consultation and consensus.

APNIC policies	Policy development
<ul style="list-style-type: none">Major policiesCorporate documentsTranslated policiesDraft documentsCompare APNIC policies to other RIR policies	<ul style="list-style-type: none">How APNIC policies are developedAPNIC policy proposalsSpecial Interest Groups (SIGs)Birds of a Feather (BoF)

Why policies are important

IP addresses and AS numbers are shared resources, available for use by anyone who needs them. APNIC policies ensure that these resources are distributed fairly and consistently across the whole Asia Pacific region.

But over time, technology improvements change the needs of the Internet community. If APNIC's policies don't meet your needs, you can propose changes to existing policies or suggest new policies.

How you can participate

Anyone can submit a policy proposal using the online [policy proposal form](#). Policies are discussed at face-to-face [APNIC Open Policy Meetings](#), which are held twice per year. If you can't attend APNIC meetings in person, you can always [participate remotely](#). Between meetings, policies are discussed on APNIC's public [mailing lists](#).

Recent policy changes

[prop-030-v001](#) Deprecation of ip6.int reverse DNS service in APNIC

[prop-025-v001](#) Proposal on IPv6 IRR service at APNIC

Upcoming policy changes

[prop-032-v002](#) 4-byte AS number policy proposal


Proposals at APNIC 22

[prop-035-v001](#) IPv6 portable assignment for multihoming

[prop-034-v001](#) IPv6 portable assignment for end user organisations

[prop-033-v001](#) End site allocation policy for IPv6

How policies are developed



[View the movie](#)



What's next?

- Subscribe to APNIC SIG mailing lists if you haven't done so
 - Follow the discussions
 - Become spokesperson/representative for your organisation in the policy process
 - Contribute to the community, share your thoughts
- Participate in discussions
 - Attend APNIC 23
 - Remotely using available access tools
 - Meet and discuss with APNIC staff



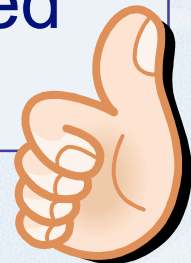
Policy Development Flash

Quiz



Who can be involved in policy development in the AP region?

- Anyone can be involved!
- APNIC members, members of the Internet community, or anyone interested in Internet policy!



Questions?



Next speaker : Philip Smith

- Background
 - Consulting Engineer, Cisco
- Topics
 - SIGs (Special Interest Group)
 - BOFs (Birds of a Feather)

Next speaker : Champika

- Background
 - Senior Training Specialist
- Topics
 - How to participate in the APNIC OPM process
 - Fellowships
 - How to influence the policy making
 - Remote participation

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Importance in participating in the policy making process and the APNIC OPM



Why participate?

You can **INFLUENCE** policies!



IT IMPACTS YOUR BUSINESS

Onsite participation

- You can participate as a speaker
 - Policy proposals, informational presentations or resource person
 - Complimentary registration
- Or as a regular attendee
 - APNIC meeting registration fee is subsidised for members
- Also as a fellow
 - Fellowships offered for both members and non members (SA economies fall into priority list)

Fellowships

- Why?
 - Enable Internet community in the developing economies of the AP region to attend APNIC meetings
- What?
 - Free registration for all tutorial and meeting sessions
 - Daily allowance for accommodation, meal and incidental expenses

Fellowships

- Who?
 - N/W providers in developing economies
 - Staff managing and operating networks
- How?
 - Residency in a developing economy of the AP
 - Demonstrated ability to utilise the experience gained from APNIC meeting
 - Offered on equal opportunity basis
- Where?
 - <http://www.apnic.net/meetings>

Remote participation



- Why?
 - You may not be able to physically participate
 - Time constraints
 - Budget constraints
- How?
 - Jabber chat
 - Discuss issues with others in the chat room
 - Have your questions or comments read out and discussed at the meeting
 - Webcasts / Video streaming
 - Audio stream (for low bandwidth users)
 - Live transcripts

APNIC meeting website is your
reference point

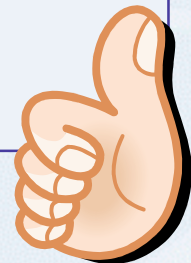
<http://www.apnic.net/meetings>

Quiz



What are the live features at APNIC meetings?

- Webcast
- Live transcripts
- Jabber chat
- Podcast

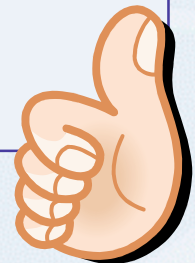


Quiz



What is Jabber used for?

Live chat at the APNIC OPM



Summary

- What is APNIC?
- Importance of SA in APNIC region
- Policy process
- How & why to participate in APNIC OPM

Welcome to APNIC 23



Welcome to APNIC 24 !!!

- APNIC 24 – India
- In conjunction with SANOG 10
- 29 Aug – 7 Sept, 2007
- All are invited

Thank you