

APNIC Update

VNNIC Members Meeting

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Registration Services Manager

Overview

- Post IPv4
- IPv6 in Vietnam
- Policy update
- Training update
- Internet governance landscape
- NIR engagement
- APNIC 36

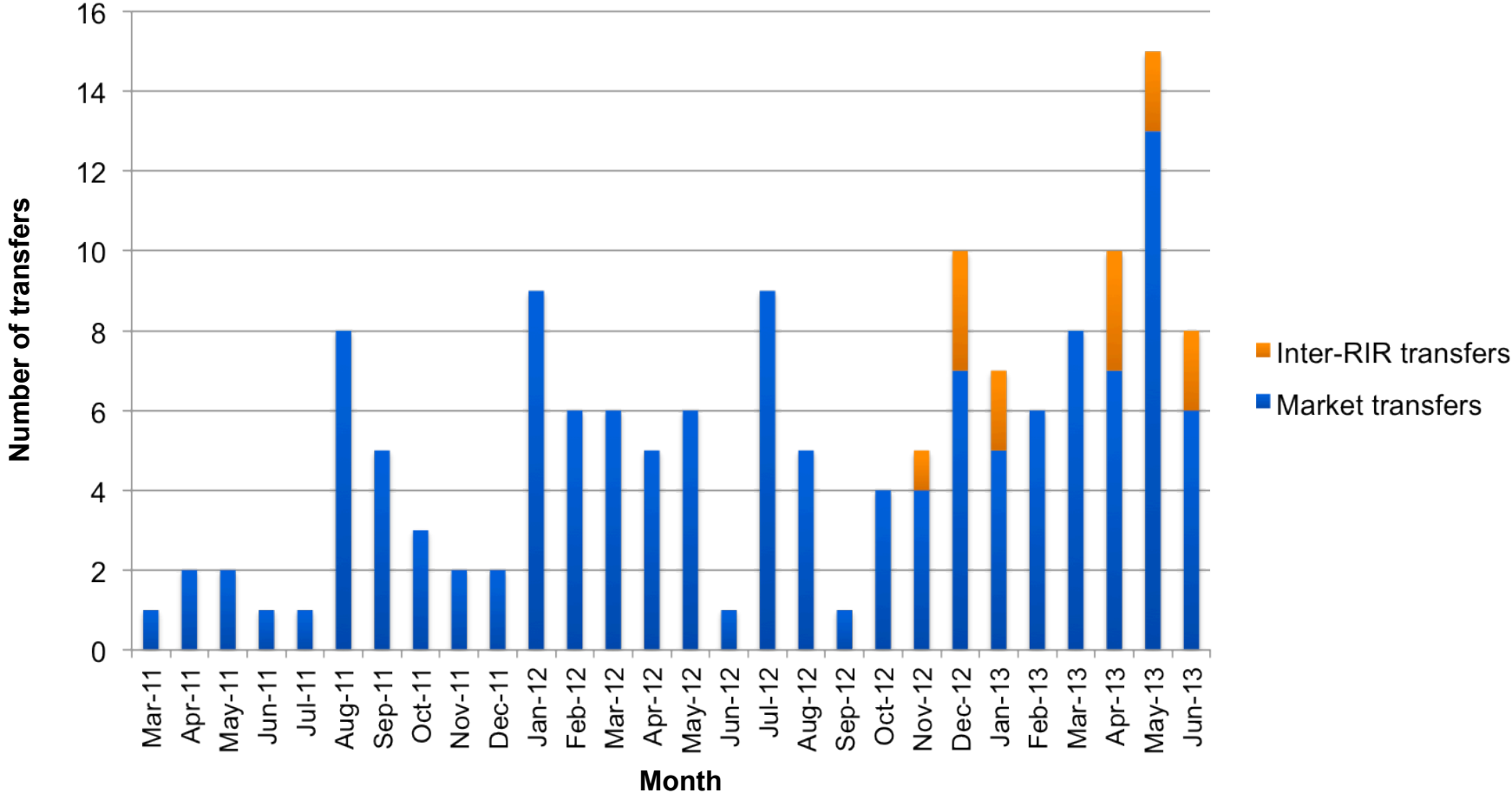
IPv4 transfers

APNIC facilitates IPv4 transfers

- All current APNIC accountholders can still get small, rationed portions from the “last /8”
- IPv4 address transfer services
 - Support for intra- and inter-RIR transfers
 - 13 inter-RIR transfers so far from ARIN to APNIC (Nov 2012-Jun 2013)
 - Transfer fee applied (20% of the transferred block’s annual fee)
- Pre-approval service, with opt-in anonymous listing
- Broker listing; mailing list to enable discussion on topics relevant to transfers

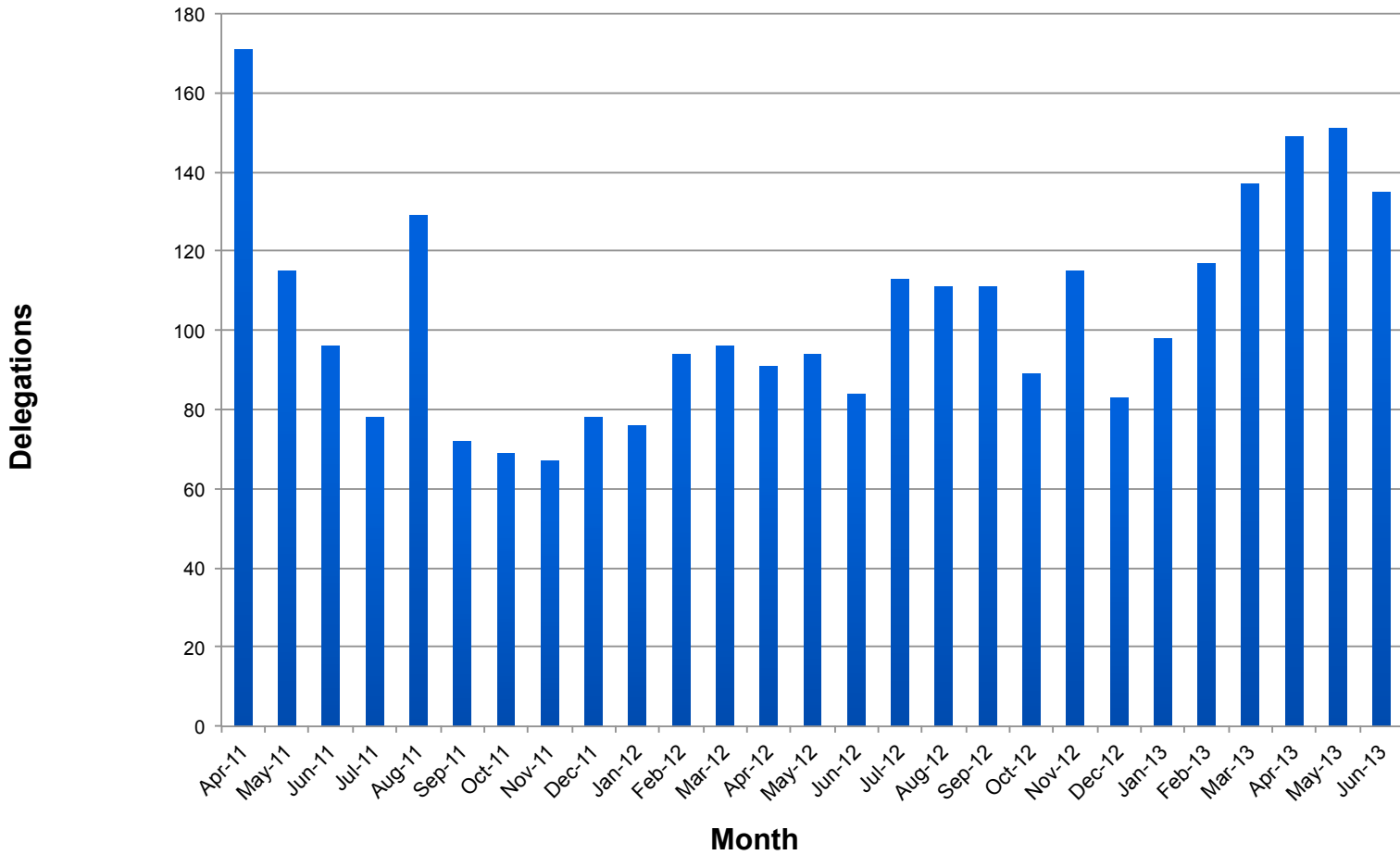
apnic-transfers@apnic.net

IPv4 market transfers



As at 30 June 2013

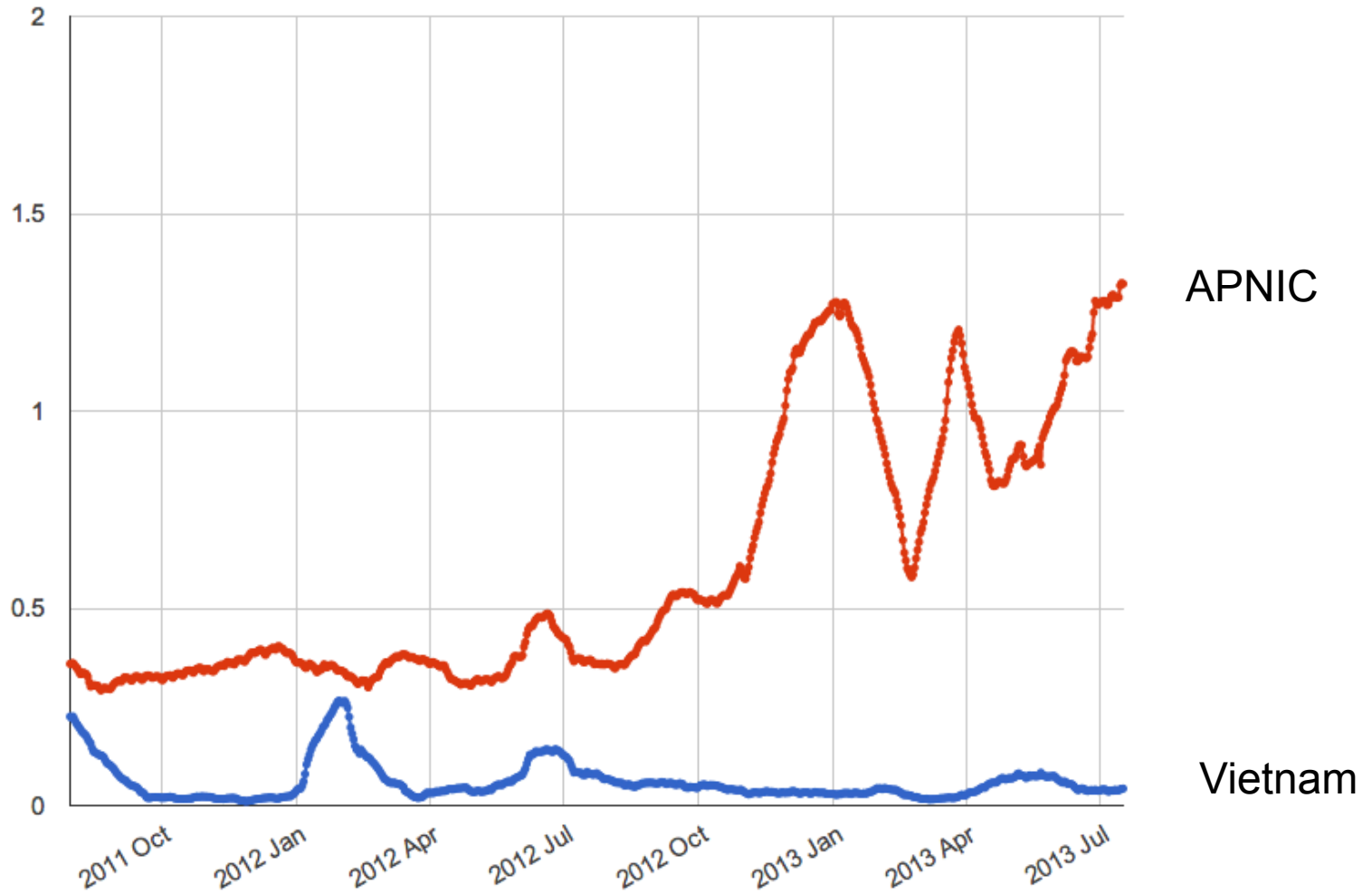
Last /8 delegations



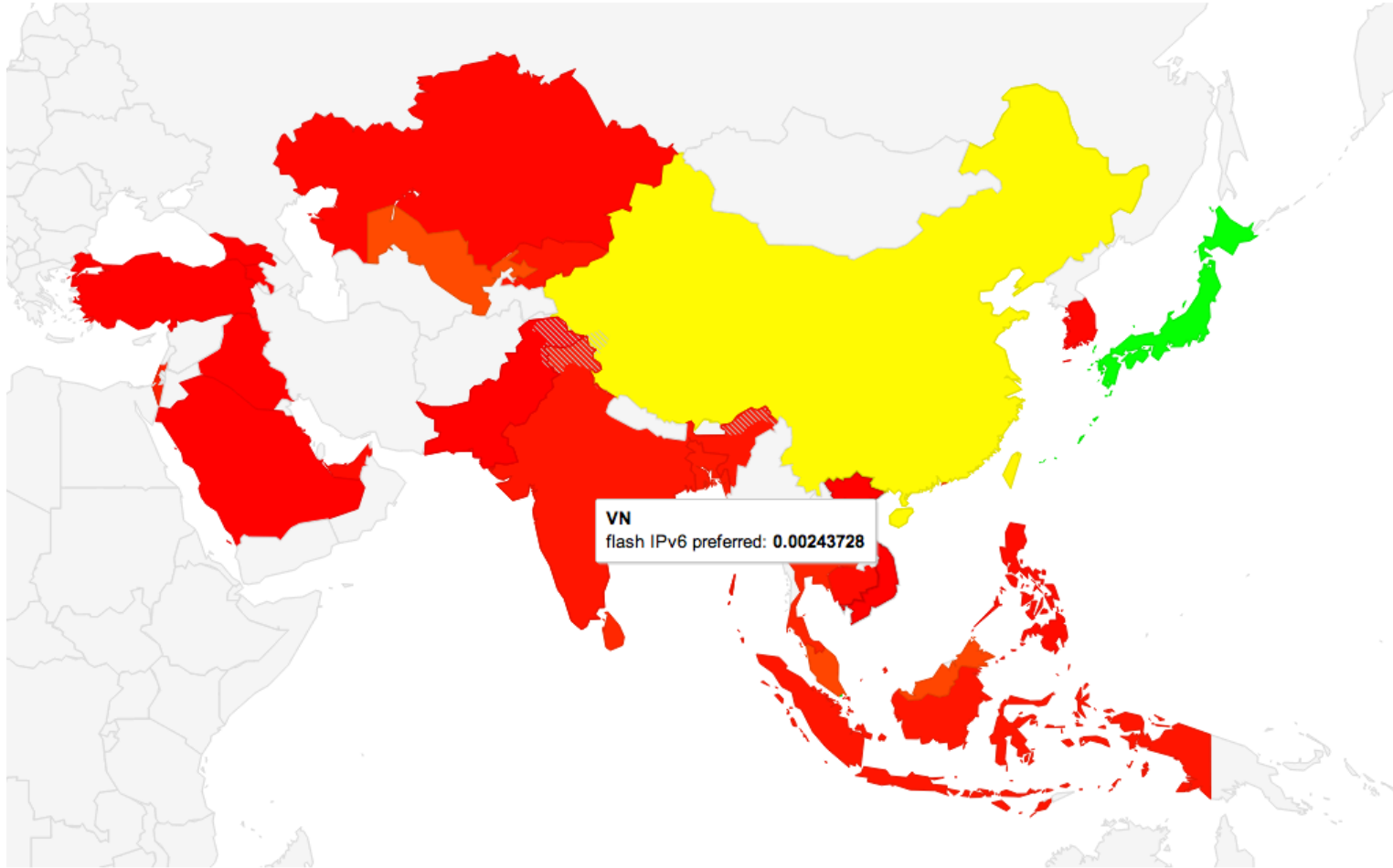
As at 30 June 2013

IPv6 in Vietnam

IPv6 preference by month



IPv6 preferred in Vietnam



Top 25 and Vietnam

World rankings by IPv6 Preference

Economy	v6pref ▼	3month avg hits/month
CH	10.18%	7702
RO	9.48%	328985
LU	6.82%	2269
FR	5.32%	302158
BE	4.44%	51128
JP	4.43%	320583
DE	3.43%	63951
US	3.09%	445928
PE	3.03%	149687
CZ	1.90%	55256
SG	1.62%	13570
NO	0.96%	8273
GR	0.86%	120580
NL	0.79%	63340
PT	0.78%	27836
SE	0.63%	14274
CN	0.62%	112932
SI	0.61%	14979
TW	0.60%	90952
SK	0.50%	36564

VN ranks in 93rd position
with below 0.1% preference

Vietnam IPv6 in context

Class	ASNs assigned	Seen in BGP routing IPv4 or IPv6 (% assigned)	Seen by measurement (% seen BGP)	Routing IPv6 in BGP (% seen BGP)	Routing IPv6, seen in measurement (% routing)
Vietnam	227	126 (55%)	98 (77%)	14 (11%)	10 (71%)
March 2013	227	123 (54%)	91 (74%)	15 (12%)	7 (46%)
APNIC	8802	5393 (61%)	5208 (96%)	1094 (20%)	486 (44%)

- Constant participation in global BGP IPv6 since March 2013
 - Roughly the same BGP-active ASNs in Vietnam are now seen in the measurement
 - Variances probably reflect BGP and sampling differences
- VN ASN participation in global IPv6 BGP remains slight compared to the region
- ASNs with end-user active IPv6 in Vietnam has not significantly advanced since earlier in 2013

VN ASNs active with IPv6

ASN	Net Name	Entity
7552	VIETEL-AS-AP	Vietel Corporation
7602	SPT-AS-VN	Saigon Postel Corporation
18403	FPT-AS-AP	The Corporation for Financing & Promoting Technology
23902	VNNIC-AS-VN	Vietnam Internet network information center (VNNIC)
24066	VNNIC-AS-VN	Vietnam Internet Network Information Center
24173	NETNAM-AS-AP	Netnam Company
24176	NETNAMHCMC-AS-AP	Branch of Netnam Company in Ho Chi Minh City
45543	SCTV-AS-VN	SaiGon Tourist cable Televition Company
45899	VNPT-AS-VN	VNPT Corp
131415	VNNIC-AS-VN	Vietnam Internet network information center (VNNIC)

APNIC Policies in 2013

- Implemented:
 - prop-104: Clarifying demonstrated needs requirement in IPv4 transfer policy (Feb 2013)
 - prop-101: Removing multihoming requirement for IPv6 portable assignments (Feb 2013)
- Did not reach consensus at APNIC 35:
 - prop-105: Distribution of returned IPv4 address (modification of prop-088)
 - Returned to author for further development
 - prop-106: Restricting excessive IPv4 address transfers under the final /8 block
 - Abandoned

New proposals for APNIC 36

- prop-105-v002: Distribution of returned IPv4 address blocks (Modification of prop-088)

www.apnic.net/policy/proposals/prop-105

- This policy proposes to define a separate distribution policy for all non-103 IPv4 address blocks in the APNIC pool, to start the distributions once “Global policy for post exhaustion IPv4 allocation mechanisms by the IANA” is activated.

New proposals for APNIC 36

- prop-107-v001: AS number transfer policy proposal
www.apnic.net/policy/proposals/prop-107
 - This policy would permit the transfer of Autonomous System Numbers (ASNs) within the APNIC region and between regions with compatible inter-regional ASN transfer policies.
- prop-108-v001: Suggested changes to the APNIC Policy Development Process
www.apnic.net/policy/proposals/prop-108
 - A proposal to optimize and/or disambiguate procedures carried out under the current APNIC PDP.

Training update

- Continuing focus on IPv6 deployment
 - Comprehensive face-to-face and eLearning sessions
 - IPv6 eLearning day (first Wednesday of every month)
- eLearning
 - Every Wednesday in three time zones
 - 23 modules (1-hour duration per module)
 - Enhanced schedule for 2013
- Face-to-Face
 - Extensive hand-on exercises
 - Physical and Virtual Training Labs to enable participants to build and configure networks
- New training website

training.apnic.net

Training delivered in 2013 (Jan to Jun)

- Face-to-face training
 - 40 courses in 20 locations
 - 1101 participants
- eLearning
 - 66 courses
 - 498 participants



As at 30 June 2013

Internet governance landscape

Internet tradition

- During the last thirty years, we have seen the Internet and its coordination structures develop in an open, bottom-up, and multistakeholder environment
- It is just in the last few years that the Internet has received increased attention from governments
 - Internet seen as a critical infrastructure
 - Growing concerns about the consequences of cybercrime
- Some recognize the current successes, others support an intergovernmental model
 - Ongoing discussions

How APNIC participates

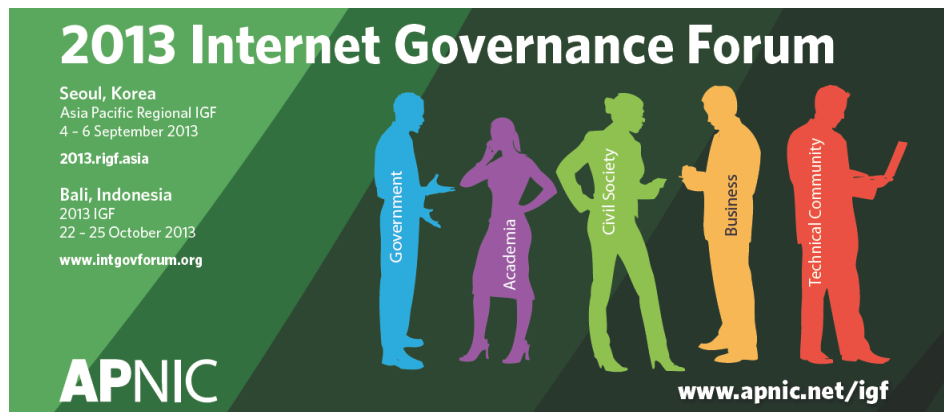
- APNIC has been actively involved in the evolution of the multistakeholder model
 - Since WSIS, in all IGFs, at ICANN, NRO, ASO, and other organizations
- APNIC has active engagements with intergovernmental organizations, such as:
 - APT
 - APEC TEL
 - ITU
 - OECD
- Too many acronyms, but all of these have meaningful representation

Internet Governance Forum

- Multistakeholder model in action
 - Open discussions that can help inform policy making on all aspects of Internet governance
 - Does not produce concrete outcomes
 - Participation to all on equal footing

www.apnic.net/igf

- **Regional IGF** – Seoul, Korea from 4-6 September
- **Global IGF** – Bali, Indonesia from 22-25 October



2013 Internet Governance Forum

Seoul, Korea
Asia Pacific Regional IGF
4 - 6 September 2013
2013.rigf.asia

Bali, Indonesia
2013 IGF
22 - 25 October 2013
www.intgovforum.org

Government
Academia
Civil Society
Business
Technical Community

APNIC

www.apnic.net/igf

APNIC and the NIRs

Engaging with NIRs

- An important part of the APNIC community
- Long collaboration with VNNIC
- NIRs operate in a way that is consistent with regional and global resource management policies
 - Local policies cannot conflict with regional or global policies
- All NIRs and NIR members are encouraged to participate in the APNIC Policy Development Process (PDP)

www.apnic.net/nir

20th anniversary

- We are celebrating our 20th year of service this year!
- Join us for APNIC 36 in Xi'an, where we will be commemorating this anniversary with special events throughout the conference



conference.apnic.net/36

Thank you

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