

APNIC Update

RIPE 73

Madrid, October 2016

Zen Ng

APNIC Activities



Serving APNIC Members



Supporting Regional Internet
Development

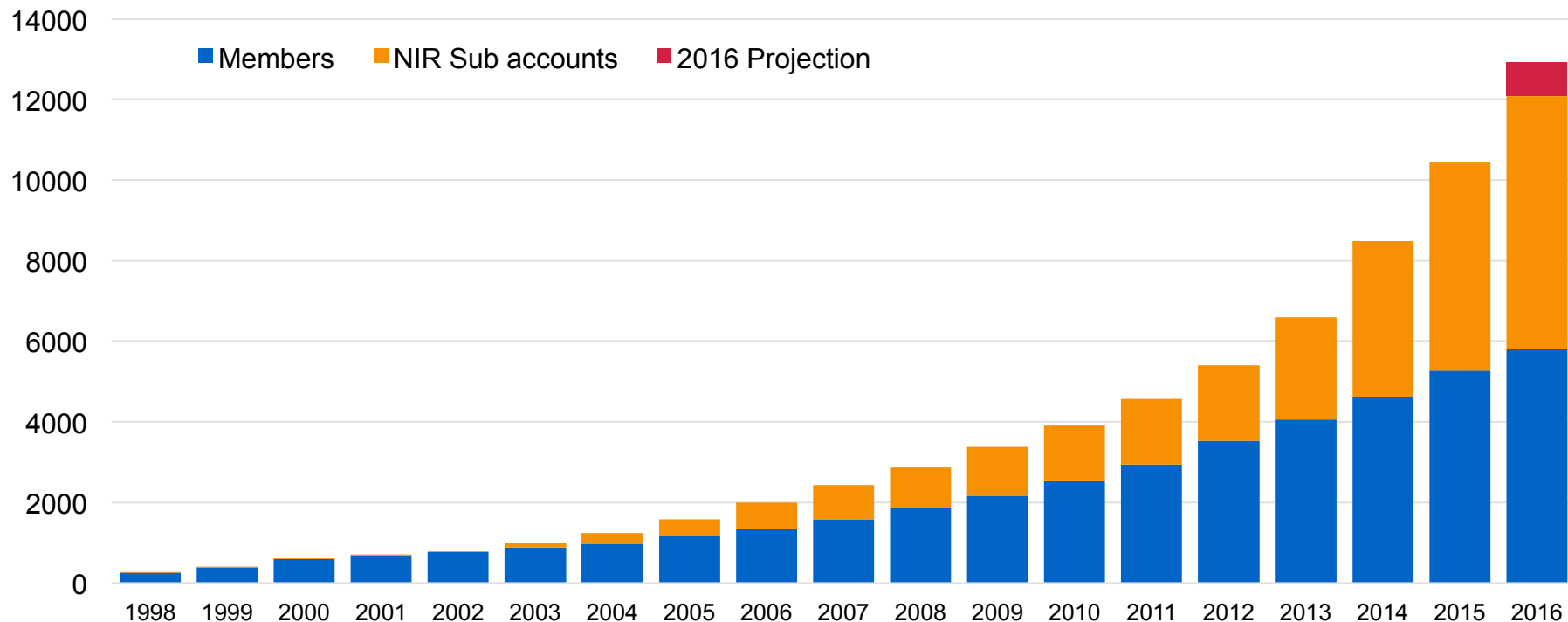


Cooperating with the Global
Internet Community





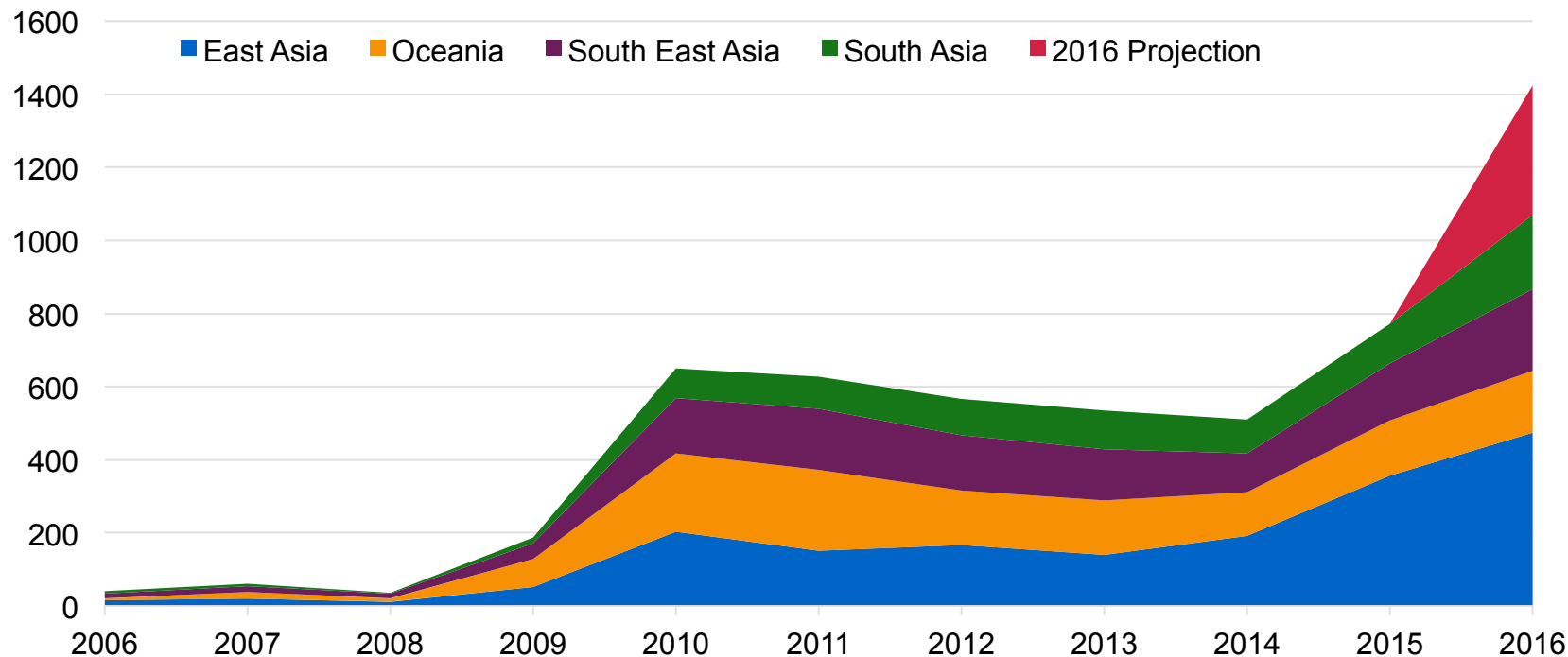
APNIC and NIR Membership



As at 30 September



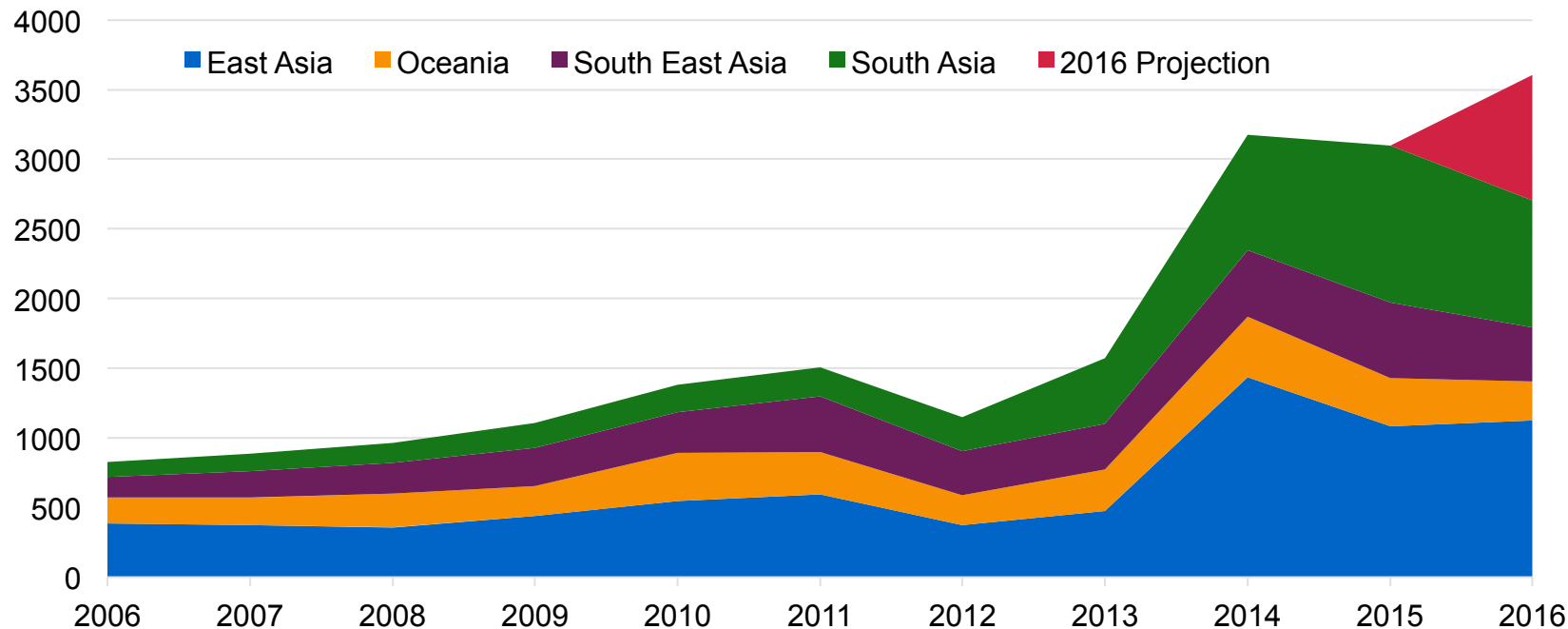
Annual IPv6 Delegations



As at 30 September



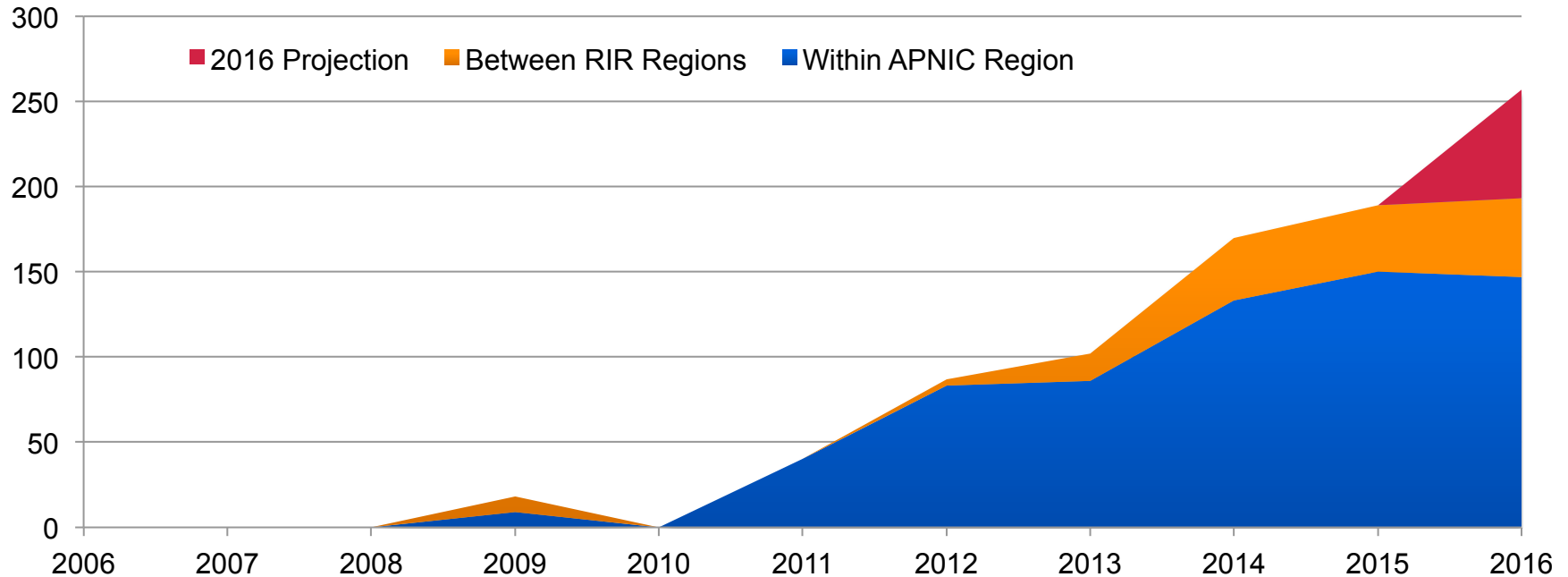
Annual IPv4 Delegations



As at 30 September



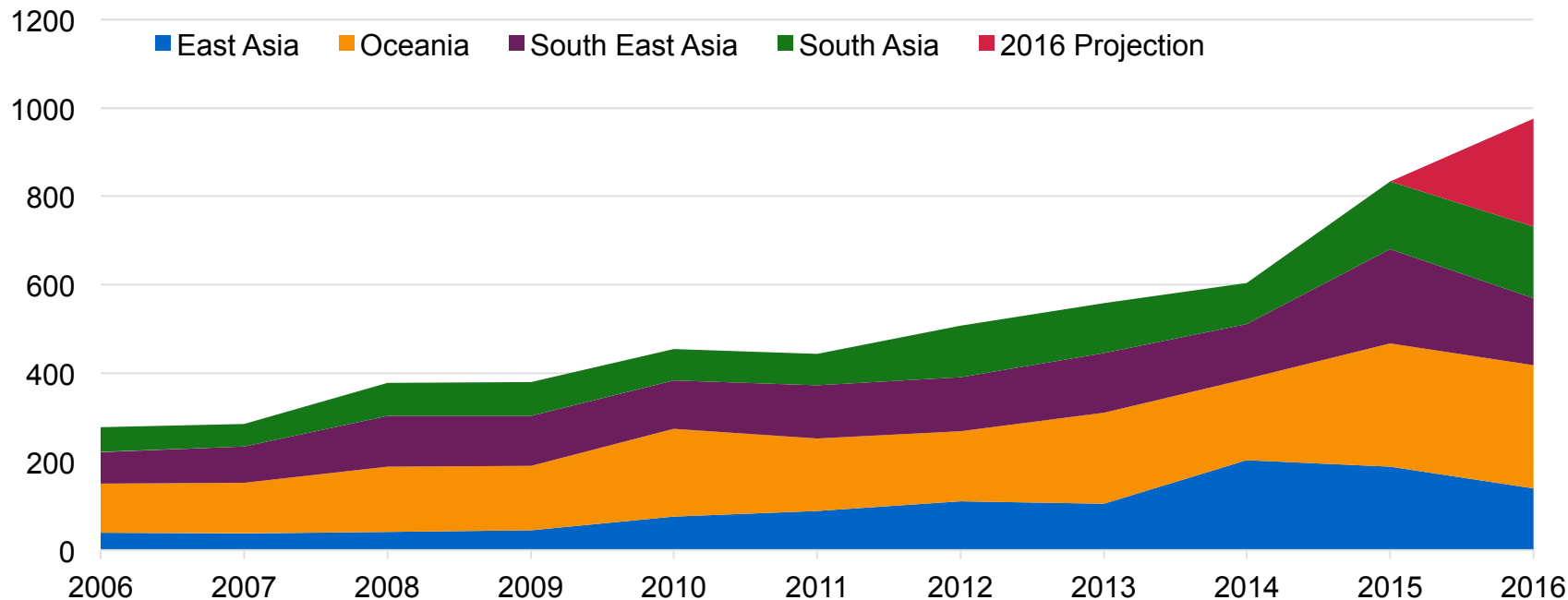
Annual IPv4 Transfers



As at 30 September



Annual ASN Assignments



As at 30 September

Routing Security



“Ready to ROA” campaign – hands-on sessions
to help Members create ROAs

Eight sessions completed + 5 planned

ROA stats (to date)

ROA-enabled Members	632
Numbers of ROAs created	442
Number of IPv4 addresses under ROAs (/32s)	7,751,680
Number of IPv6 addresses under ROAs (/56s)	2,182,106,624
% allocated space under ROAs (IPv4)	Q3: 0.90% (Q1: 0.78%)
% allocated space under ROAs (IPv6)	Q3: 0.26% (Q1: 0.22%)



Whois Data Quality



- ✓ Monthly automated cleanup to remove 'orphaned' objects
- ✓ Whois check support for Members
- ✓ Easy invalid contact reporting

Q1 2017 - Mapping of Internet resources to organization object

203.133.248.0 - 203.133.251.255

203.0.0.0 - 203.255.255.255

202.0.0.0 - 203.255.255.255

0.0.0.0 - 255.255.255.255

From 2016-05-04T00:08:28 until +999999999-12-31T23:59:59.999999999

```
inetnum:      203.133.248.0 - 203.133.251.255
netname:      APNIC-JP-RD
descr:        APNIC  R&D Centre JP
country:      JP
admin-c:      GM85-AP
tech-c:       GM85-AP
remarks:      /22 for APNIC R&D node in Japan and AU.
status:       ASSIGNED PORTABLE
mnt-by:       APNIC-HM
mnt-routes:   MAINT-AU-APNIC-GM85-AP
remarks:      -----
remarks:      To report network abuse, please contact mnt-irt
remarks:      For troubleshooting, please contact tech-c and admin-c
remarks:      Report invalid contact via www.apnic.net/invalidcontact
remarks:      -----
source:       APNIC
mnt-irt:      IRT-APNICRANDNET-AU
changed:      hm-changed@apnic.net 20070522

mntner:       APNIC-HM
descr:        Maintainer for allocations/assignments made by APNIC
descr:        Objects maintained by this maintainer may
descr:        only be changed by APNIC Hostmasters.
admin-c:      HM20-AP
tech-c:       NO4-AP
upd-to:       helpdesk@apnic.net
notify:       helpdesk@apnic.net
mnt-by:       APNIC-HM
referral-by:  APNIC-HM
changed:      hm-changed@apnic.net 20021205
changed:      hm-changed@apnic.net 20031106
changed:      hm-changed@apnic.net 20041214
changed:      hm-changed@apnic.net 20080411
changed:      hm-changed@apnic.net 20080930
source:       APNIC
```

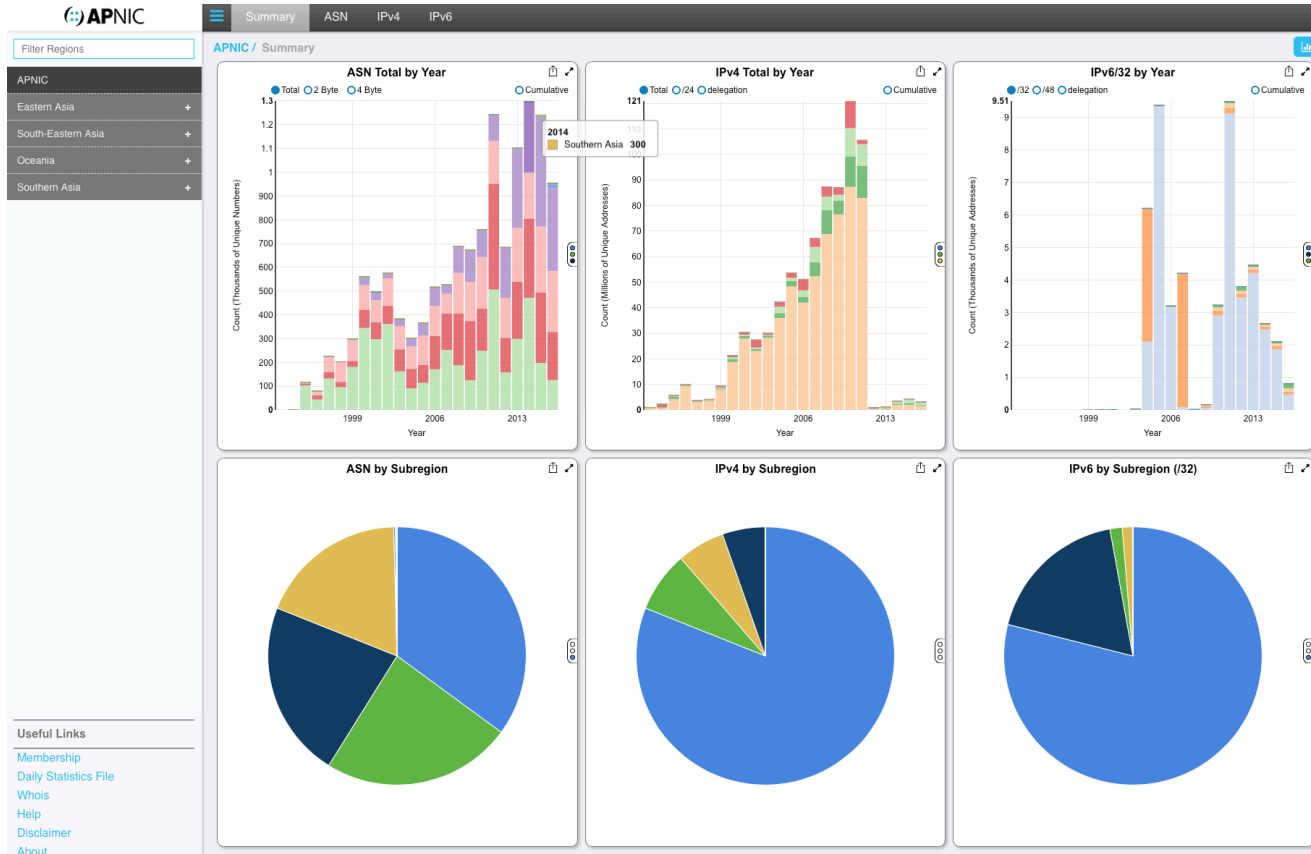
From 2015-08-27T04:18:27 until 2016-05-04T00:08:28

```
inetnum:      203.133.248.0 - 203.133.251.255
netname:      APNIC-JP-RD
descr:        APNIC  R&D Centre JP
country:      JP
admin-c:      GM85-AP
tech-c:       GM85-AP
remarks:      /22 for APNIC R&D node in Japan an
status:       ASSIGNED PORTABLE
mnt-by:       APNIC-HM
mnt-routes:   MAINT-AU-APNIC-GM85-AP
remarks:      -+-+-+-----
remarks:      To report network abuse, please co
remarks:      For troubleshooting, please contac
remarks:      For assistance, please contact the
remarks:      -+-+-+-----
source:       APNIC
mnt-irt:      IRT-APNICRANDNET-AU
changed:      hm-changed@apnic.net 20070522

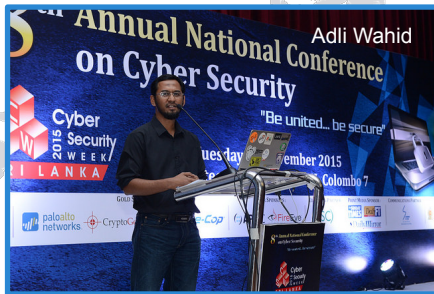
mntner:       APNIC-HM
descr:        Maintainer for allocations/assignm
descr:        Objects maintained by this maintai
descr:        only be changed by APNIC Hostmaste
admin-c:      HM20-AP
tech-c:       NO4-AP
upd-to:       helpdesk@apnic.net
notify:       helpdesk@apnic.net
mnt-by:       APNIC-HM
referral-by:  APNIC-HM
changed:      hm-changed@apnic.net 20021205
changed:      hm-changed@apnic.net 20031106
changed:      hm-changed@apnic.net 20041214
changed:      hm-changed@apnic.net 20080411
changed:      hm-changed@apnic.net 20080930
source:       APNIC
```



Resource Statistics Directory: <http://stats.apnic.net>

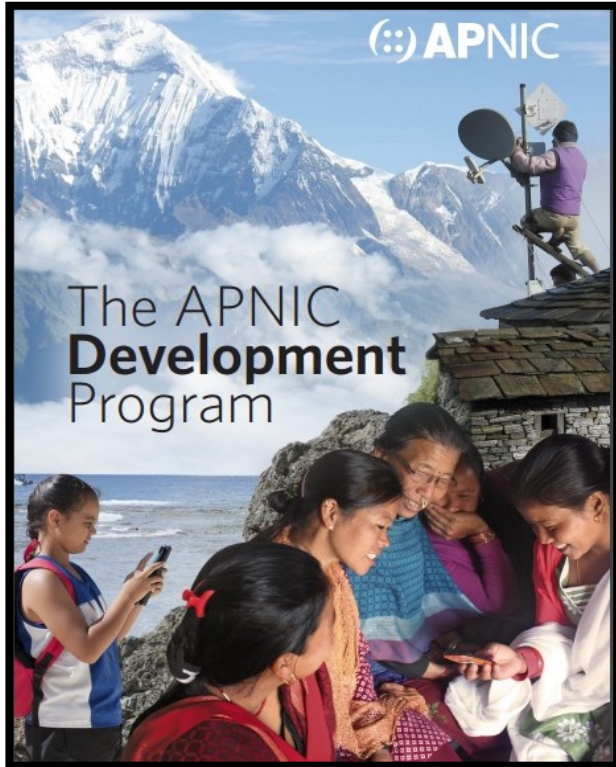


New: Security Outreach



- Security training and participation at 12 NOG and CERT events
- LEA conferences in Malaysia and Korea
- Training and support for creation of new Tonga CERT
- FIRST Tech Colloquia with APRICOT 2016, SANOG 28, APNIC 42, PACNOG 19
- Paul Wilson joined GFCE Advisory Board

Internet Development



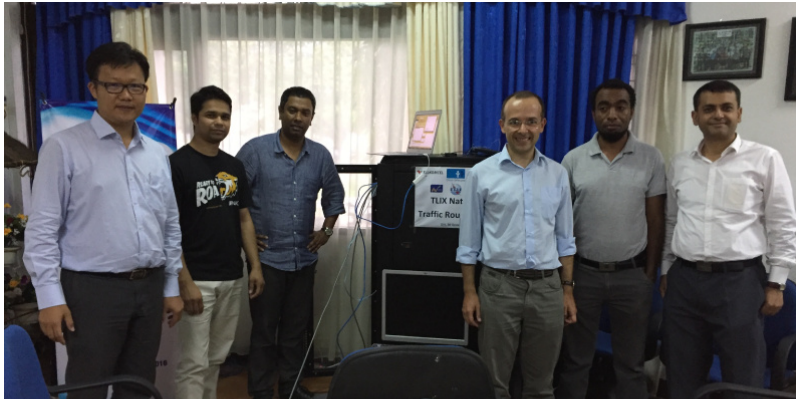
Externally funded projects...

- IDRC (CA) and SIDA (SE) small grants program – AP
- JICA (JP) Security training and courseware development
- ASEAN/IDA (SG) IPv6 survey and workshop
- ITU Direct Country assistance – KH, and workshops – AP (IPv6)
- World Bank training – MM



New! TLIX launched

- Connecting 3 major TL ISPs
 - Telemor, Timor Telecom, Telkomcel



- 26 October 2016

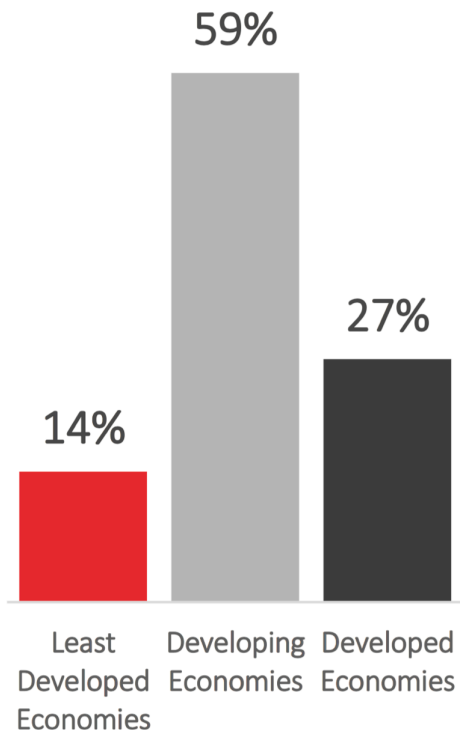


APNIC Foundation

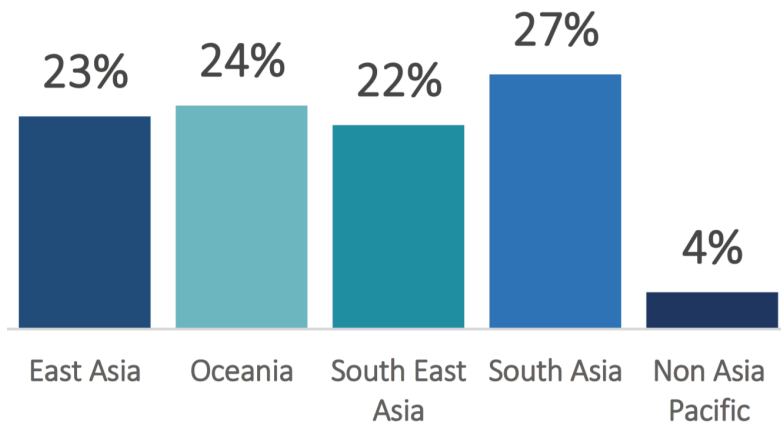


- Foundation is now incorporated in Hong Kong
 - Application for registered charity status has begun following incorporation
- PriceWaterhouseCoopers Hong Kong appointed as company secretary
- Draft Foundation Board appointment process under consideration by the EC

APNIC Survey 2016 Participation

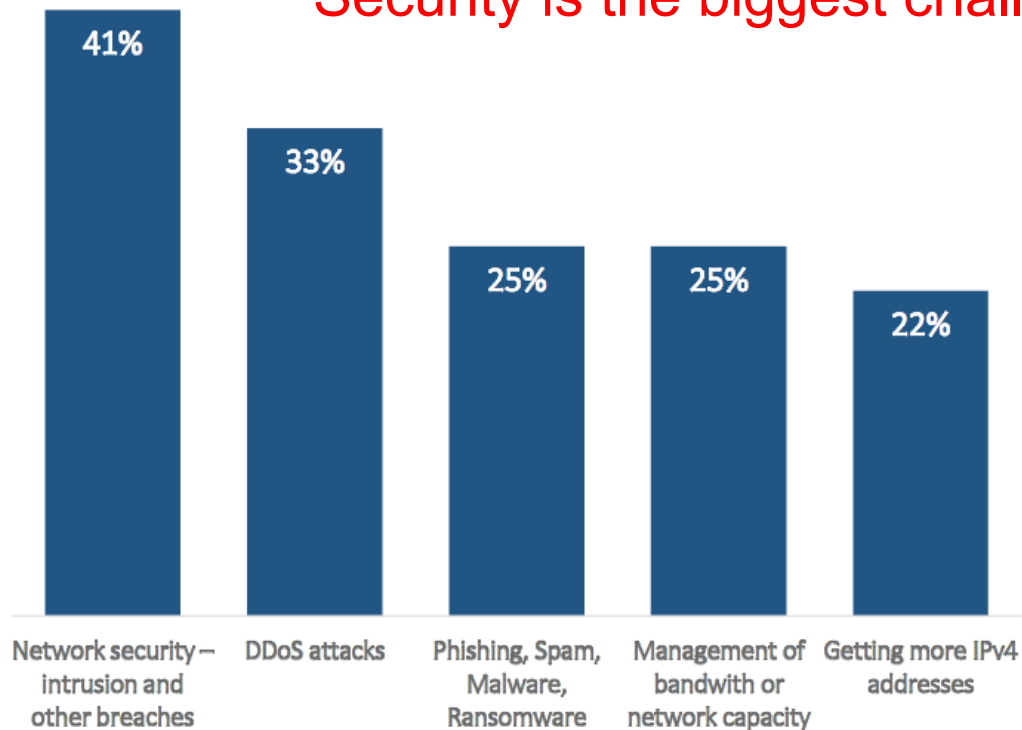


APNIC Members rate the service quality and value highly, with over 90% of respondents rating these positively



Challenges faced by members

Security is the biggest challenge!



Does APNIC have a role to play?

	% Agree APNIC can assist
Getting more IPv4 addresses	80%
Routing security	67%
Brokers selling/leasing IPv4 addresses	65%
Risks of deploying IPv6	65%
Lack of awareness of IPv6 in my organization	63%
Customer unwillingness to use IPv6	61%
Network security – intrusion and other breaches	54%
Deploying IPv6 in customer networks	54%
DDoS attacks	53%
Cost of deploying IPv6	52%
Lack of IPv6 applications	50%
Phishing, Spam, Malware, Ransomware	50%

“Provide guidance & best industry practice to tackle those challenges. Example, technical training for IPV6, DNS Security. Increase IPV4 allocation per member would be good as well.”

South East Asia

www.apnic.net/survey



Next APNIC Conference



APRICOT 2017
APNIC 43



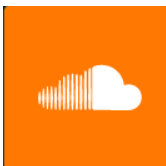
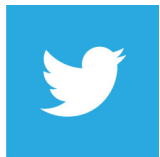
**HO CHI MINH CITY
VIETNAM**
20 February – 2 March 2017

Registration will open soon

2017.apricot.net



Stay in Touch!



blog.apnic.net

apnic.net/social

THANK YOU