

# APNIC Update

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Pita 17<sup>th</sup> AGM 25-04-2013

**APNIC**



# Overview

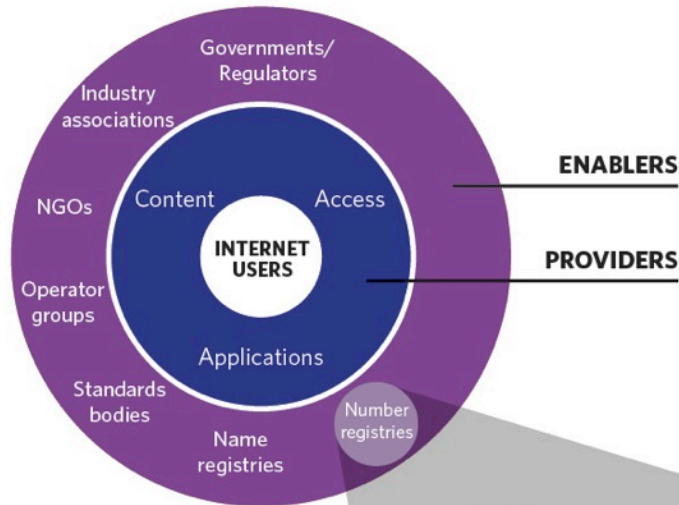
APNIC's vision:

A global, open, stable, and secure Internet that serves the entire Asia Pacific community.

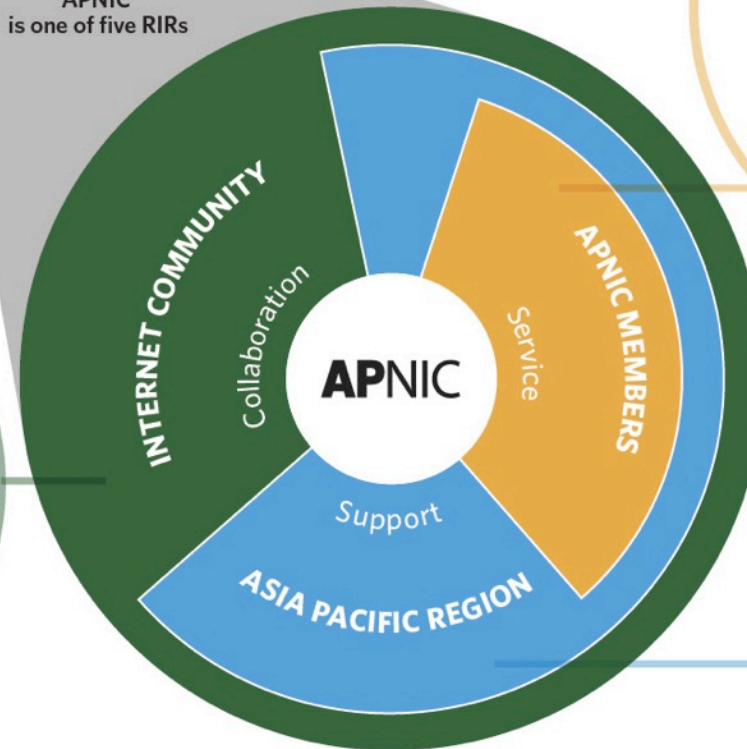
How we achieve this:

- Serving Members
- Supporting the Asia Pacific Region
- Collaborating with the Internet Community

addressing the Internet in the Asia Pacific



APNIC is one of five RIRs



**Resource distribution**

- IP addresses
- AS numbers

**Registration services**

- reverse DNS
- Internet routing registry
- resource certification
- whois registry

**Original research**

Data collection and measurements

Publications

Local/regional/global events

Internet governance

Internet security

**Policy development**

**Capacity building**

- training
- workshops
- conferences
- fellowships
- grants

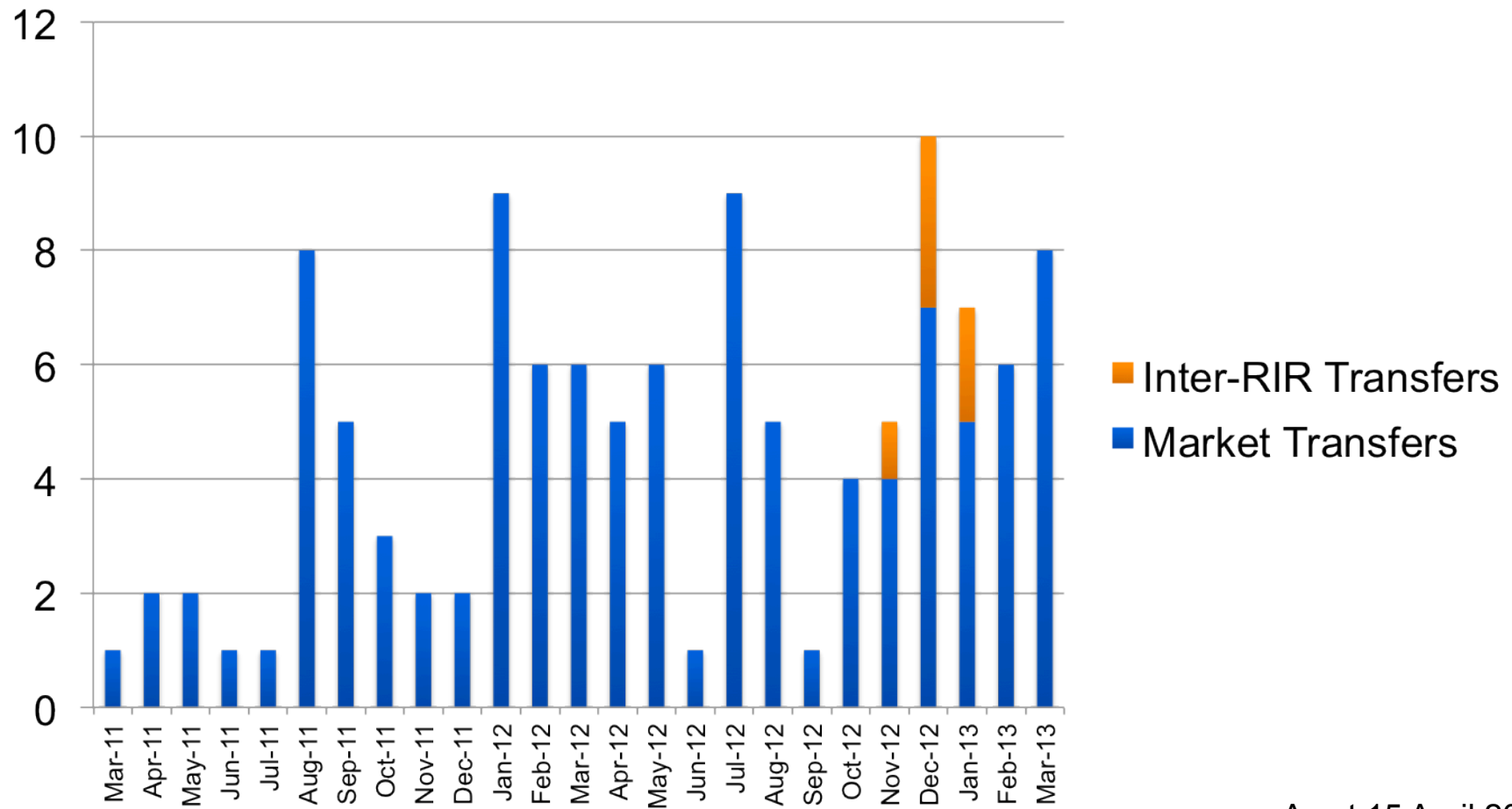
**Infrastructure**

- root servers
- IXPs
- engineering assistance

# IPv4 Address Transfer Services

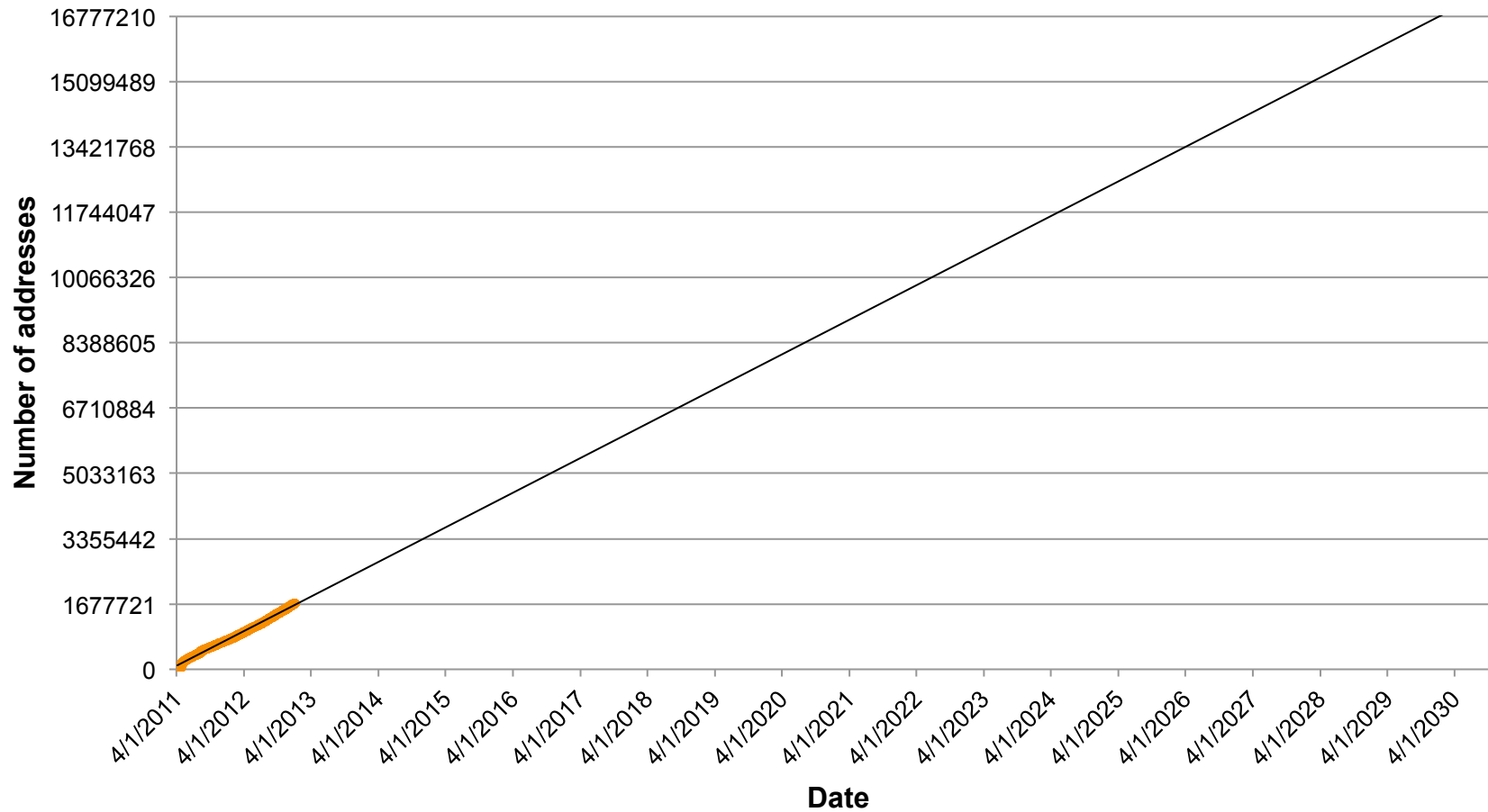
- Support for intra and inter-RIR transfers
- Pre-approval service, with opt-in anonymous listing
- Broker listing; four registered so far
- [apnic-transfers@apnic.net](mailto:apnic-transfers@apnic.net) mailing list
- Public transfer log
- Transfer fees applied
  - 20% of the transferred block's annual fee (other holdings not included in the calculation)
  - Payable by the recipient, or by the source if transferred out of the APNIC region

# IPv4 Market Transfers

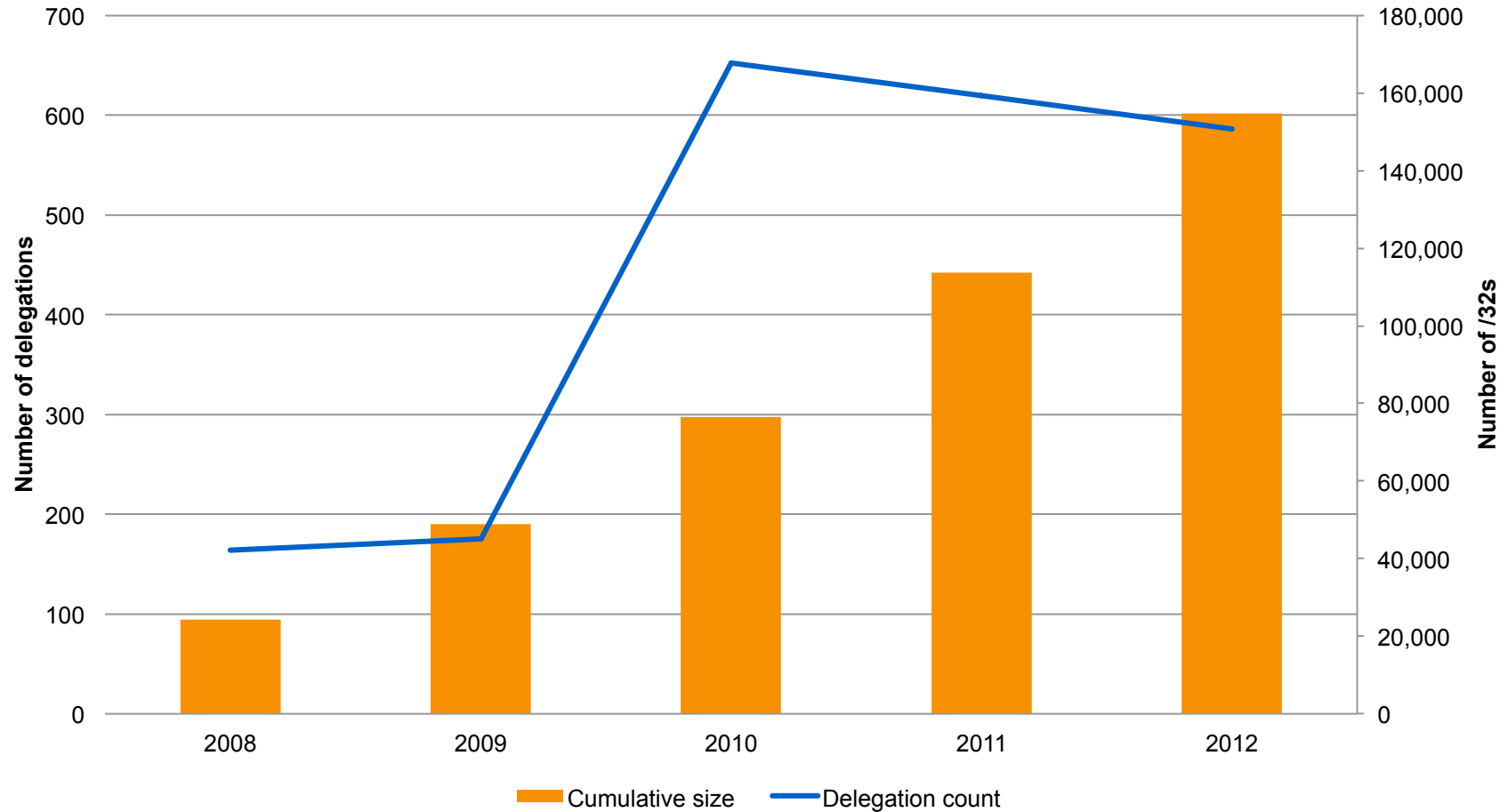


As at 15 April 2013

# IPv4 Last /8 Delegation Trend



# IPv6 Delegations



As at 31 Dec 2012

# Training

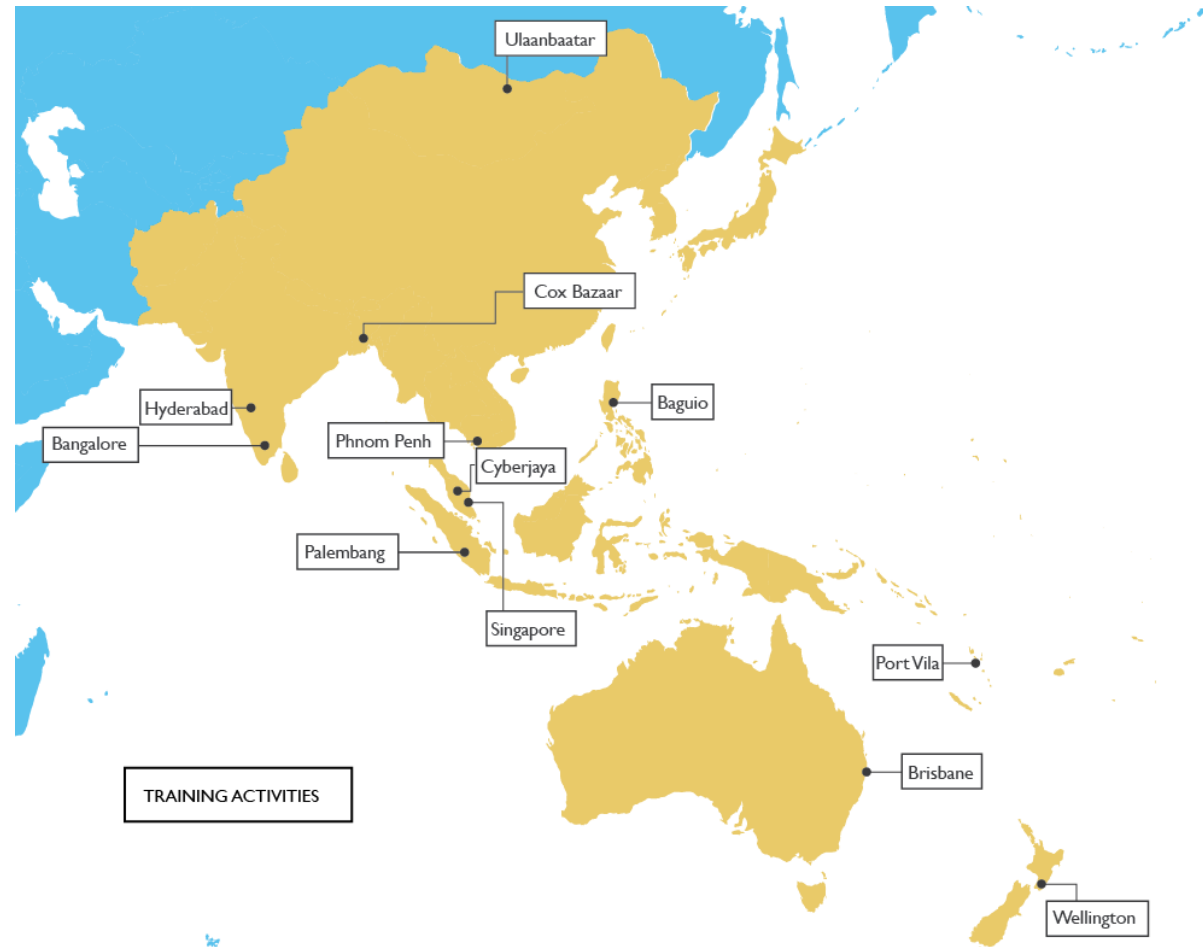
- Continuing focus on IPv6 deployment
  - Comprehensive face-to-face and eLearning sessions
  - IPv6 eLearning day (first Wednesday of every month)
- eLearning
  - Every Wednesday in three time zones
  - 24 modules (1 hour duration per module)
  - Enhanced schedule for 2013
- Face-to-Face
  - Extensive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

[training.apnic.net](http://training.apnic.net)



# Training delivered in 2013 (Jan to Apr)

- Face-to-face training
  - 30 courses in 12 locations
  - 614 participants
- eLearning
  - 39 courses
  - 326 participants



As at 15 April 2013

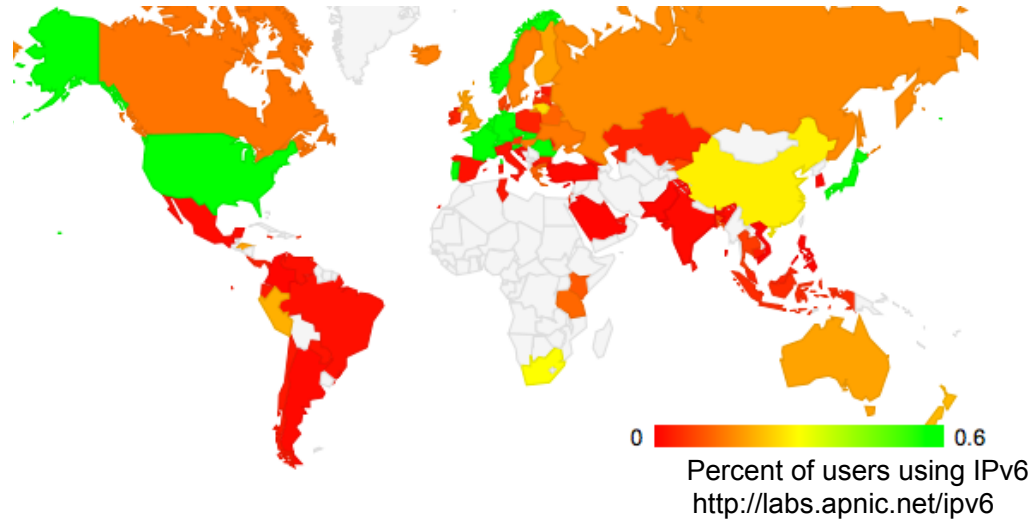
# APNIC Labs: IPv6 measurement

- IPv6 Capability Tracker
  - Google Analytics tracking tool to enable website operators to measure client IPv6 capabilities
- Measuring IPv6
  - Measuring the end-to-end capability of IPv6 clients per economy
  - Readiness data at end-user level for various intergovernmental organizations and economies
- IPv6 preference by AS Number
  - Measures IPv6 client capability per autonomous system
- IPv4 address report
  - Measuring IPv4 free pool address exhaustion

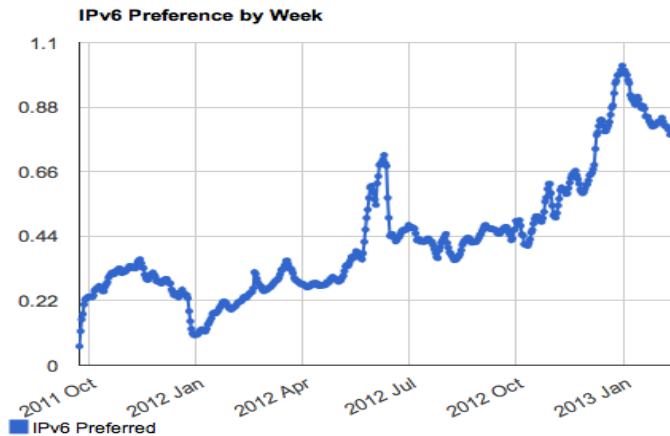
[www.labs.apnic.net](http://www.labs.apnic.net)

[www.blabs.apnic.net](http://www.blabs.apnic.net)

# Measuring IPv6



We've been conducting a large scale IPv6 measurement across the Internet to provide baseline data about the rate of deployment of IPv6 across countries and individual networks



Economy	ASN	AS Name	# samples	v6 capable	v6 preferred
US	<a href="#">AS19782</a>	INDIANAGIGAPOP - Indiana University	1566	100	100
CN	<a href="#">AS37944</a>	CNNIC-CSTNET-AP CHINA SCIENCE AND TECHNOLOGY NETWORK	1354	100	100
CN	<a href="#">AS23910</a>	CNGI-CERNET2-AS-AP China Next Generation internet CERNET2	7060	100	100
JP	<a href="#">AS9807</a>	BBTOWER BroadBand Tower; Inc.	255	96.0784	96.0784
NZ	<a href="#">AS24226</a>	CATALYST-IT-AS-AP Catalyst IT	830	94.3373	93.9759
JP	<a href="#">AS55394</a>	GREE-NET GREE; Inc.	519	93.6416	71.0983
AU	<a href="#">AS38083</a>	CURTIN-UNI-AS-AP Curtin University	715	89.6503	88.951
US	<a href="#">AS3598</a>	MICROSOFT-CORP-AS - Microsoft Corp	1113	74.9326	72.4169
ID	<a href="#">AS17553</a>	IPBNET-AS-AP Bogor Agricultural University	251	74.9004	60.9562
AU	<a href="#">AS4608</a>	APNIC-AP Asia Pacific Network Information Centre	629	73.6089	70.9062
NZ	<a href="#">AS58666</a>	NASL-AS-AP Network Access Services Limited	206	69.4175	61.165
US	<a href="#">AS5661</a>	USF - UNIVERSITY OF SOUTH FLORIDA	295	69.1525	65.4237
US	<a href="#">AS1312</a>	VA-TECH-AS - Virginia Polytechnic Institute and State Univ.	480	67.7083	62.7083
CZ	<a href="#">AS197451</a>	VUTBR-AS Brno University of Technology	416	64.6635	59.375
GB	<a href="#">AS786</a>	JANET The JNT Association	223135	63.1044	52.4337
US	<a href="#">AS15169</a>	GOOGLE - Google Inc.	12414	60.9312	18.9866
NO	<a href="#">AS57963</a>	LYNET-INTERNETT-AS Lynet Internett AS	326	58.8957	55.2147
US	<a href="#">AS2055</a>	LSU-1 - Louisiana State University	266	58.2707	55.2632
US	<a href="#">AS17649</a>	DMZGLOBAL-AP DMZGlobal Ltd	239	58.159	54.3933
NZ	<a href="#">AS6621</a>	HNS-DIRECPC - Hughes Network Systems	2041	56.8349	56.1979
US	<a href="#">AS6283</a>	NDIN - State of North Dakota; ISD	249	56.6265	54.6185
CN	<a href="#">AS17872</a>	CHINATELECOM-HE-AS-AP asn for Hebei Provincial Net of CT	2706	54.139	51.2565
NZ	<a href="#">AS18119</a>	ACSDATA-NZ ACSData	931	53.4909	52.3093
US	<a href="#">AS1351</a>	UVM-EDU-AS - University of Vermont	242	53.3058	45.8678
CN	<a href="#">AS4538</a>	ERX-CERNET-BKB China Education and Research Network Center	4868	50.4314	47.6787
JP	<a href="#">AS2500</a>	WIDE-BB WIDE Project	208	50	49.0385
HK	<a href="#">AS4528</a>	HKU-AS-HK The University of Hong Kong	635	48.6614	44.5689

# ISIF Asia

Member of the Seed Alliance for Internet development and digital innovation

- Joint effort with Lacnic (Frida) and AFRINIC (FIRE), with generous support from IDRC and Sida
- Evaluation and research communications activities are underway with support from the “Developing Evaluation & Communication Capacity in Information Society Research project”

# ISIF Asia

- Call for 2013 Awards open until May 2013. AUD 3,000 plus opportunity to attend the IGF Bali. Categories:
  - Innovation on access provision
  - Innovation on learning and localization
  - Code for the common good
  - Rights
- 2013 Community Choice Award for the project with most votes from the community, open until May 2013
- Call for 2014 Grants to be launched in June 2013
- 11 organizations from 9 AP economies are implementing innovative solutions with ISIF Asia 2013 grants (AUD 330,000 support)

# Upcoming Conferences

- APNIC 36: Xi-an, China
  - 20 to 30 August 2013



- APRICOT 2014 Bangkok, Thailand
  - 18 to 28 February 2014 (includes APNIC 37)

# Thanks

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**APNIC**

