APNIC Update

July 2013

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APNIC

Introduction

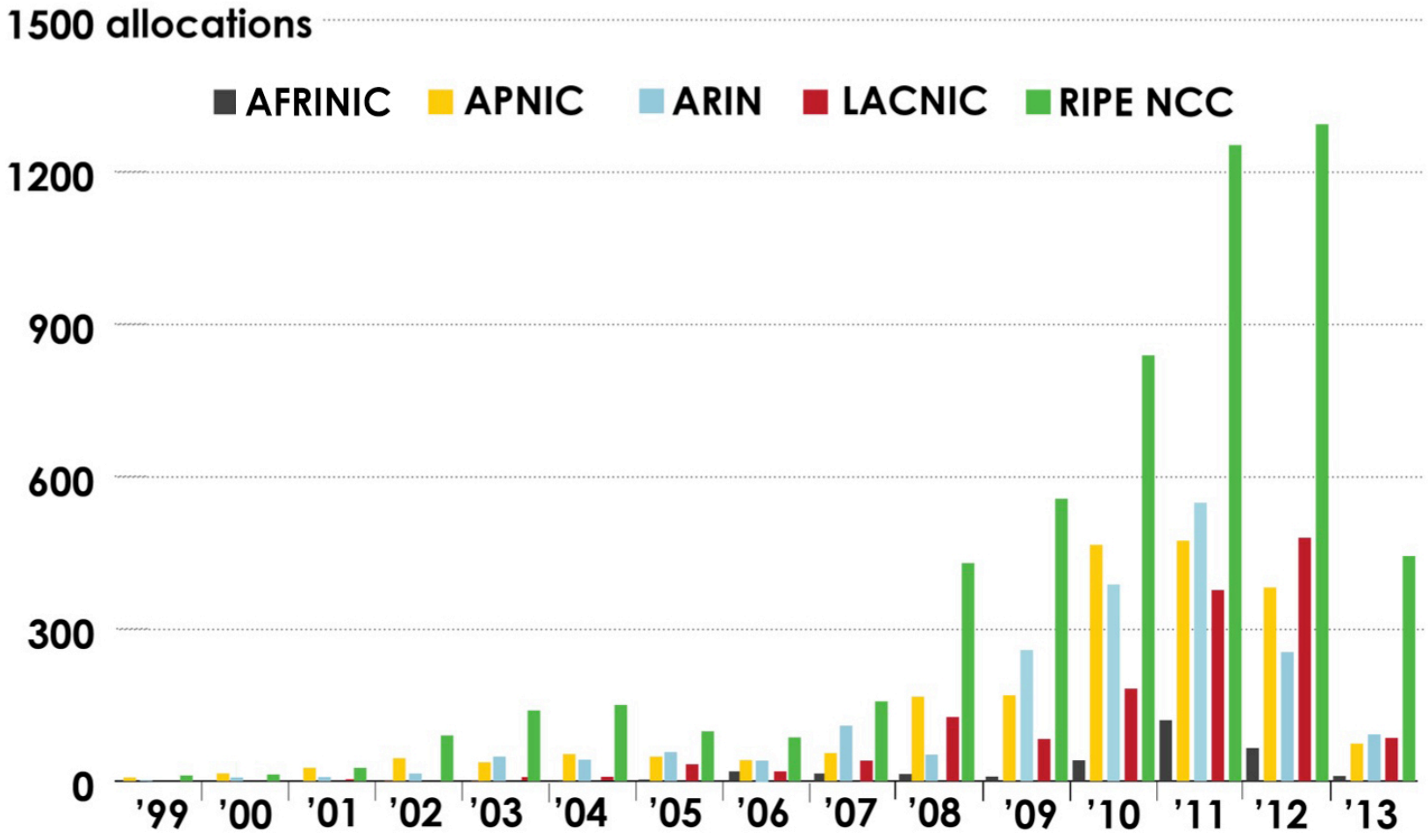
- IPv6 deployment snapshot
- IPv4 address status
- Internet Governance

IPv6 deployment snapshot

IPv6 deployment measures…

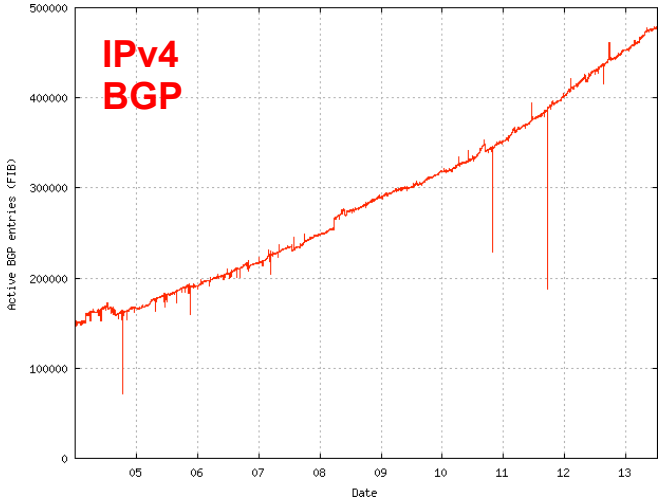
- IPv6 address allocation
  - "business as usual"
- IPv6 address routing
  - global routing table indicates healthy growth
- IPv6 end-user capacity
  - robust growth, variable by economy
- Other
  - Network operator/backbone readiness
  - Service/Website accessibility

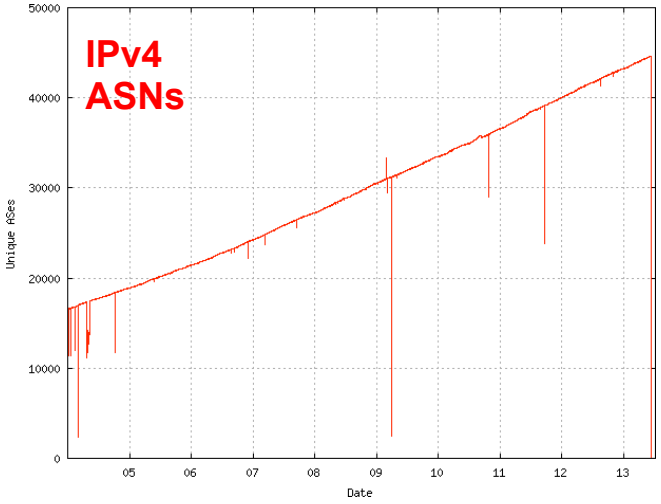
IPv6 allocations – Global

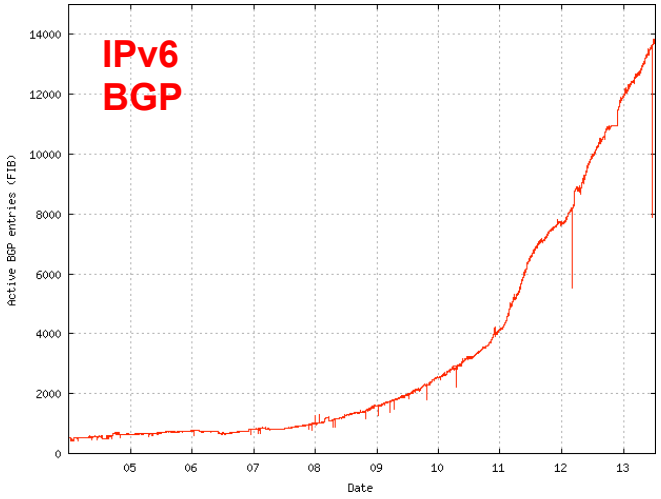


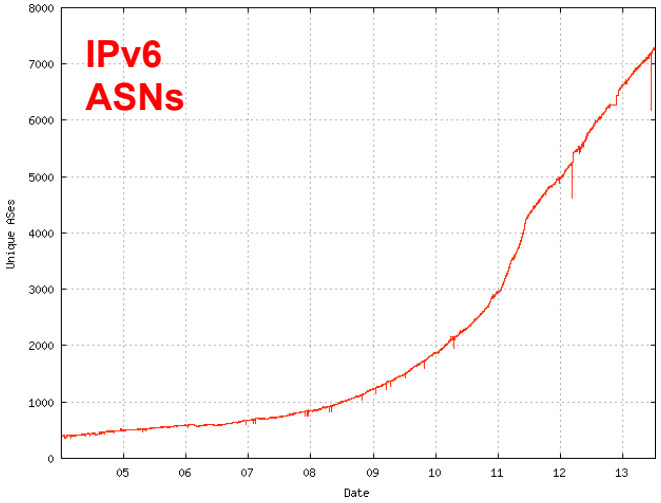
As at 31 March 2013

IPv6 routing – vs IPv4

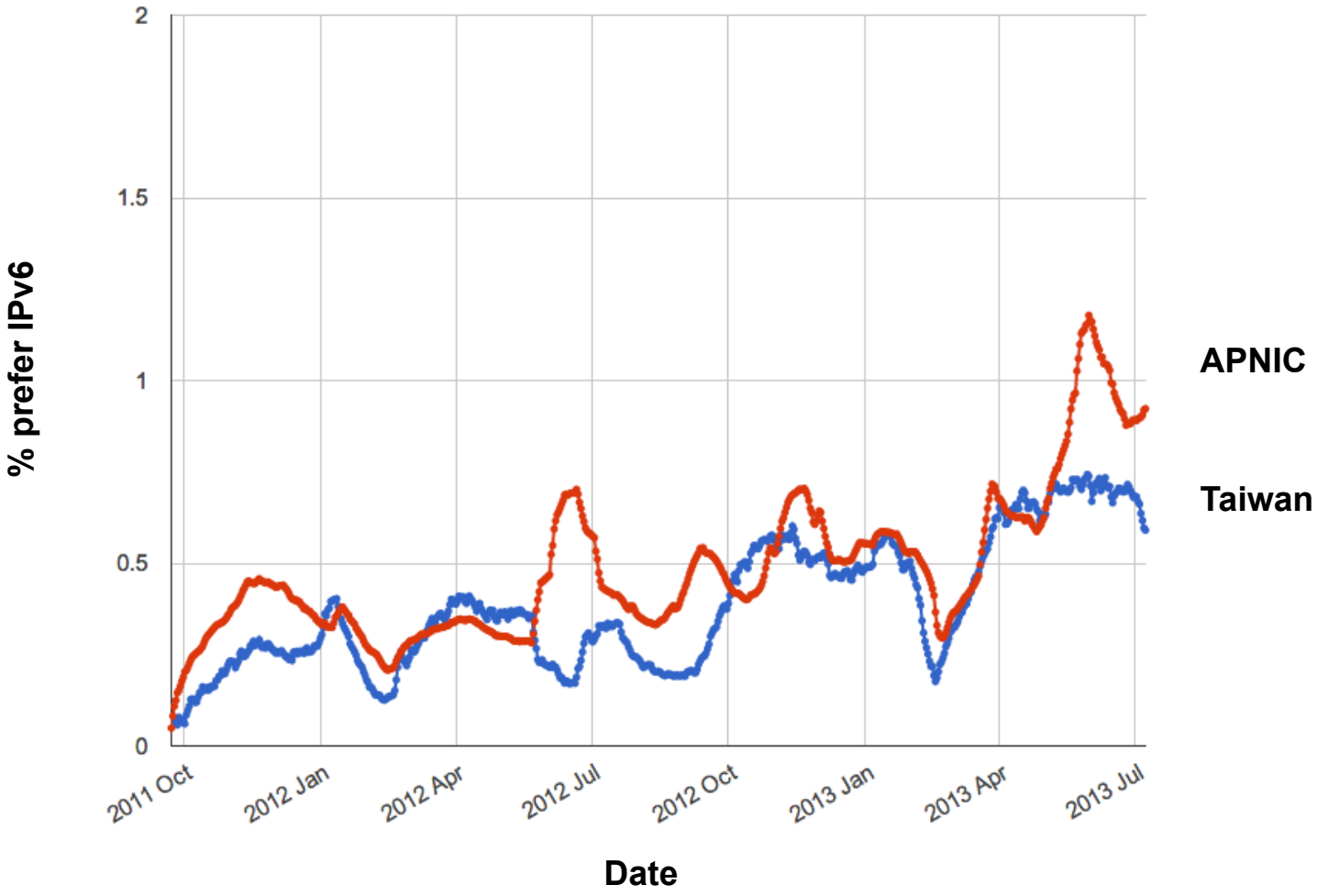








IPv6 user capability – AP and TW



World rankings by IPv6 Preference

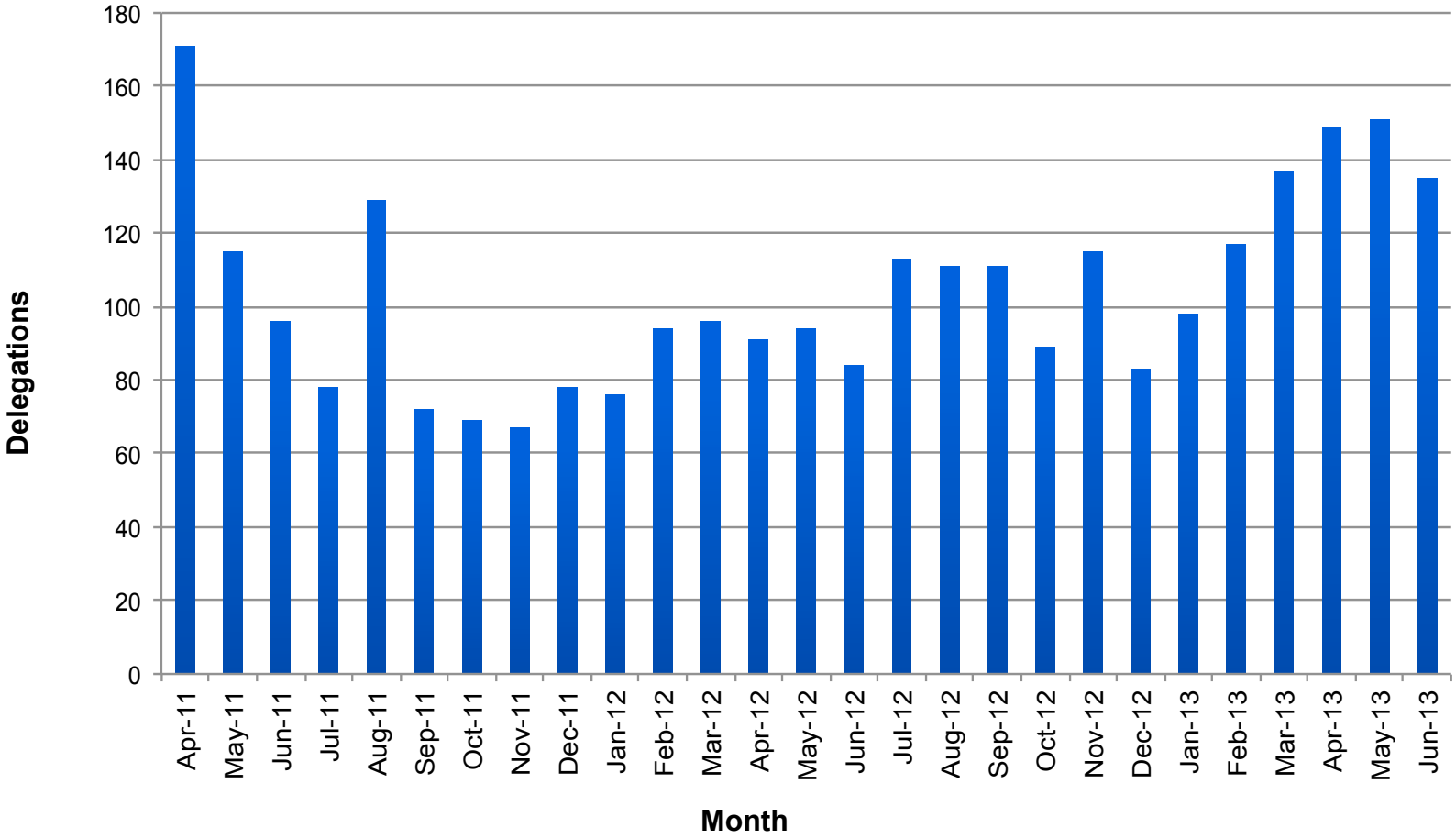
Economy	v6pref	3month avg hits/month
CH	10.18%	7702
RO	9.48%	328985
LU	6.82%	2269
FR	5.32%	302158
BE	4.44%	51128
JP	4.43%	320583
DE	3.43%	63951
US	3.09%	445928
PE	3.03%	149687
CZ	1.90%	55256
SG	1.62%	13570
NO	0.96%	8273
GR	0.86%	120580
NL	0.79%	63340
PT	0.78%	27836
SE	0.63%	14274
CN	0.62%	112932
SI	0.61%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

IPv6 in TW

	Total ASNs	Routed	Detected	IPv6 Detected	Native IPv6 Detected
TW 2013	311	115 (37%)	102 (33%)	32 (10%)	31 (10%)
TW 2012	310	98 (32%)	98 (32%)	26 (8%)	9 (3%)
APNIC 2013	8802	5393 (61%)	5208 (60%)	1094 (12%)	486 (6%)

IPv4 address status

IPv4 – Last /8

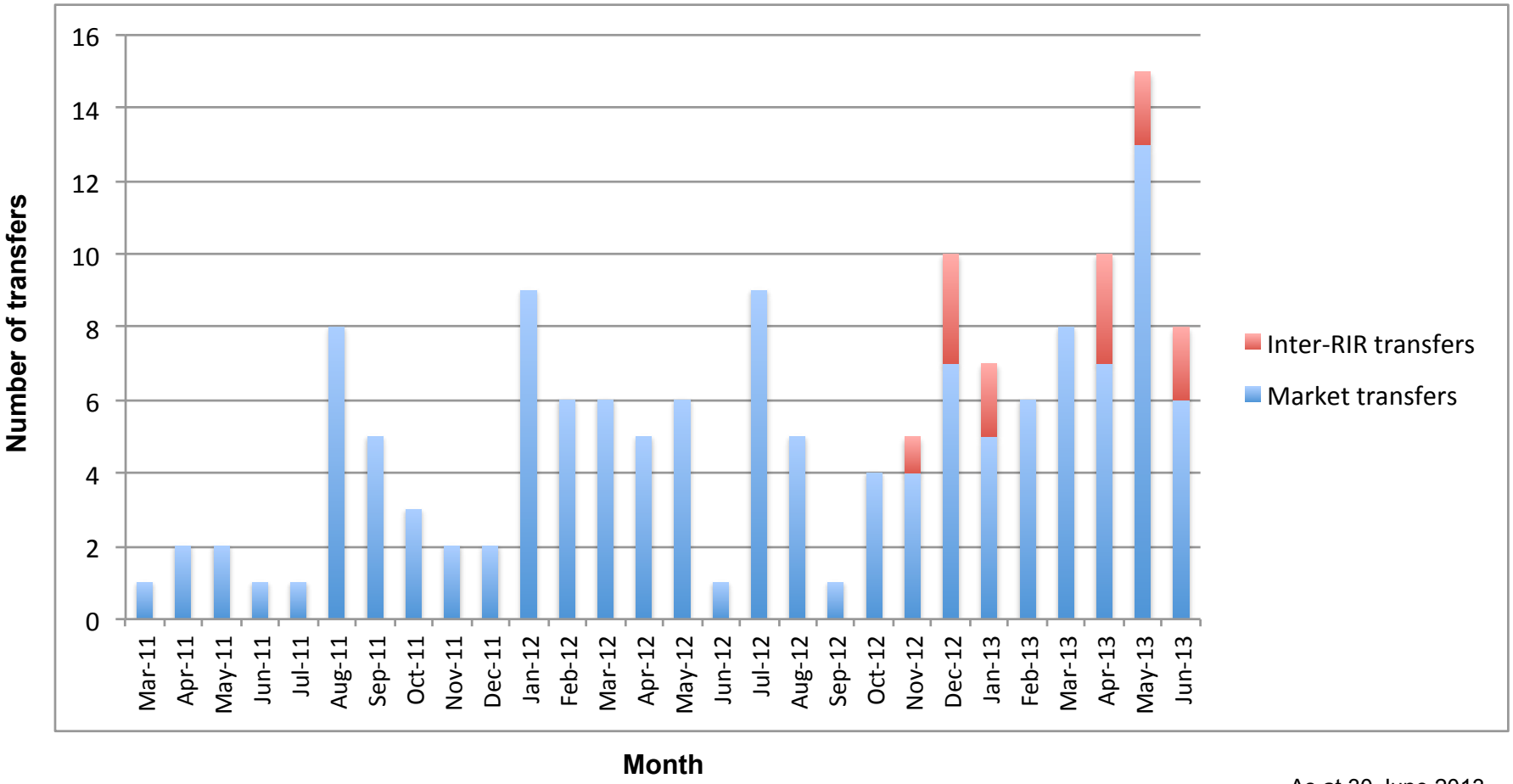


As at 30 June 2013

IPv4 transfers

- Now support for intra- and inter-RIR transfers
  - APNIC and ARIN now have compatible policies
- Demonstrated need
  - According to normal (previous) policies
  - Pre-approval service available
- Transfer fee
  - 20% of the transferred block's annual fee
- Other
  - Optional anonymous pre-approval listing
  - Broker registration and listing
  - Mailing list for discussion
- See http://www.apnic.net/transfer

IPv4 market transfers

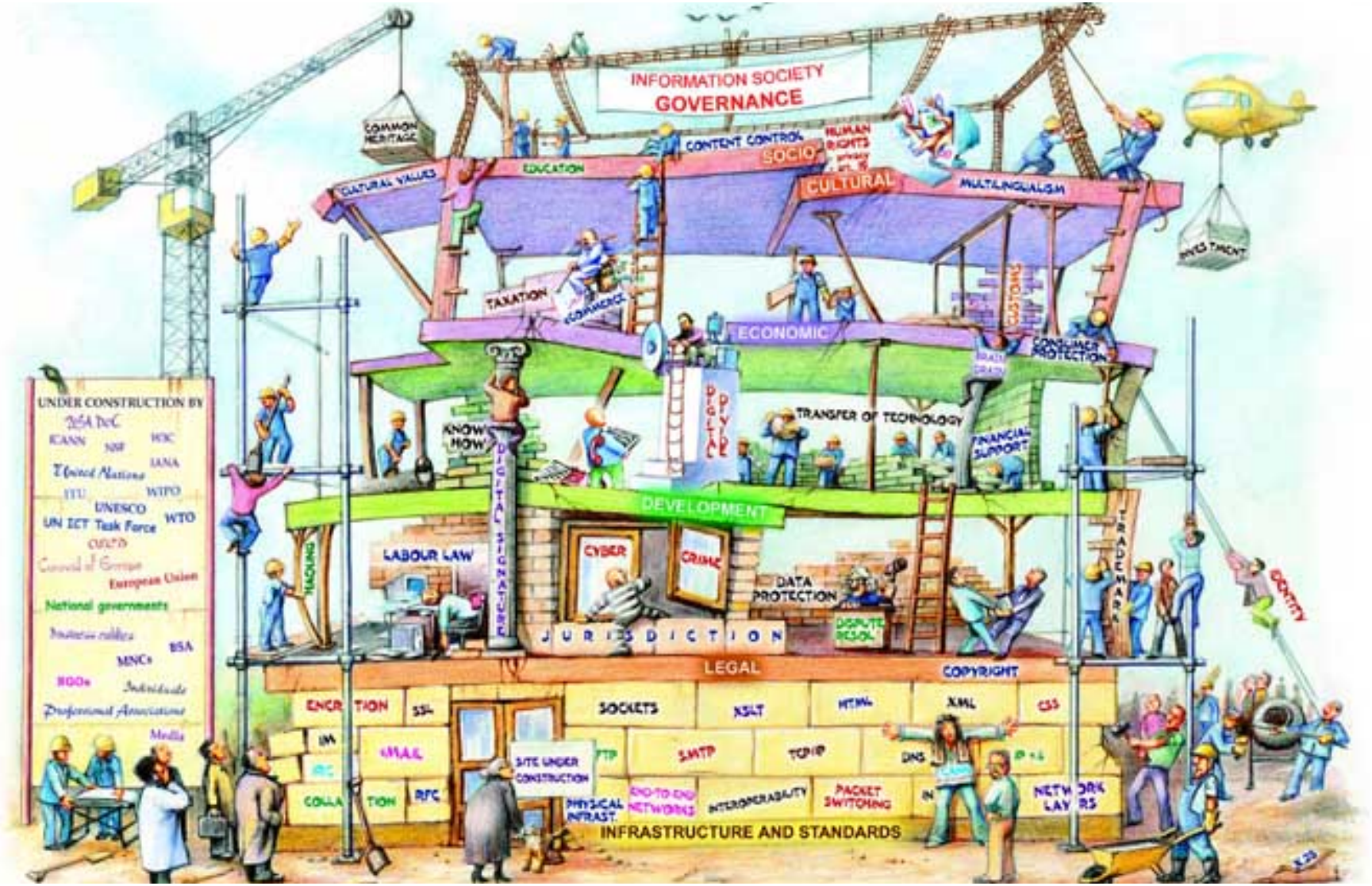


As at 30 June 2013

Internet Governance

“The 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
- In recent years that the Internet has received increased attention from governments
  - Internet is critical infrastructure
  - Increasing concern about cybercrime et al
- Many recognize the current successes, others support a different model
  - “Multistakeholder” vs intergovernmental approaches
  - Discussions on “Internet Governance” continue…


INFORMATION SOCIETY
GOVERNANCE
COMMON HERITAGE
CONTENT CONTROL
SOCIO
HUMAN RIGHTS
CULTURAL VALUES
EDUCATION
CULTURAL
MULTILINGUALISM
TAXATION
E-COMMERCE
ECONOMIC
CUSTOMS
CONSUMER PROTECTION
UNDER CONSTRUCTION BY
ICANN
ISOC
IANA
United Nations
ITU
WTPO
UNESCO
WTO
UN ICT Task Force
OECD
Council of Europe
European Union
National governments
Business rabbis
BSA
MNCs
NGOs
Individuals
Professional Associations
Media
KNOW HOW
DIGITAL SIGNATURE
DIGITAL DIVIDE
TRANSFER OF TECHNOLOGY
FINANCIAL SUPPORT
DEVELOPMENT
PIRACY
LABOUR LAW
CYBER
CRIME
DATA PROTECTION
DISPUTE RESOL
JURISDICTION
TRADEMARKS
IDENTITY
LEGAL
COPYRIGHT
ENCRYPTION
SSL
SOCKETS
XSLT
HTML
XML
CSS
IM
EMAIL
SMTP
TCP/IP
DNS
SITE UNDER CONSTRUCTION
COLLABORATION
RFC
PHYSICAL INFRAST.
END-TO-END NETWORKS
INTEROPERABILITY
PACKET SWITCHING
NETWORK LAYERS
INFRASTRUCTURE AND STANDARDS

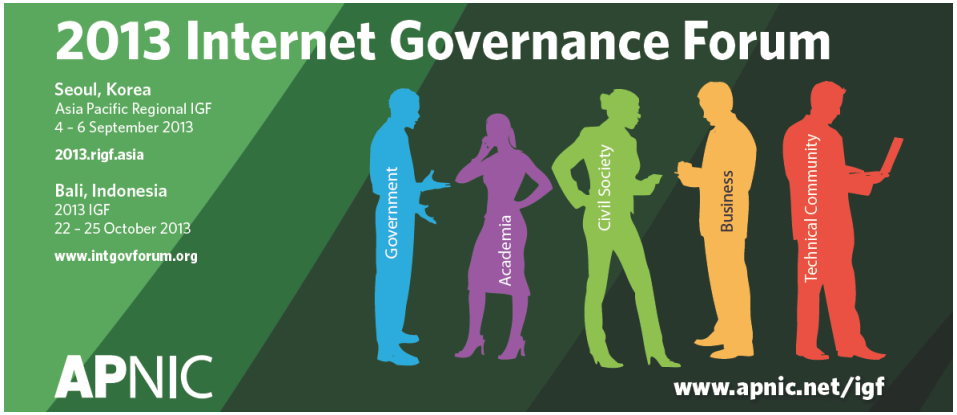
How APNIC participates

- APNIC has been actively involved in the evolution of the multistakeholder model
  - WSIS and IGFs, ITU meetings
  - 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 are meaningful for APNIC and the Internet community

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
  - See http://www.apnic.net/igf

- **Regional IGF** – Seoul 4-6 September 2013
- **Global IGF** – Bali 21-25 October 2013



National Internet Registries

- Participation in policy development (PDP)
  - NIRs support regional and global management policies
  - APNIC policies should support NIR needs!
  - Local policies cannot conflict!
- Project collaboration
  - Staff exchanges and training
  - Community training, education and outreach
  - Technical development projects
- Thanks to TWNIC!
  - Many years of close collaboration, continuing
- You are part of the APNIC community – Please join us!

You're invited!

- APNIC celebrates its 20th anniversary!
- Join us for APNIC 36 in Xi'an, where we will be commemorating with special events throughout the conference

- See http://www.apnic.net/meetings

Thank you

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