

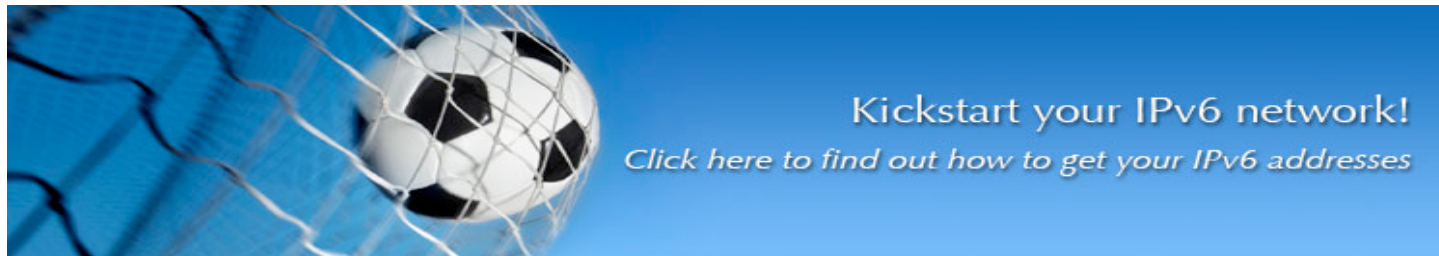
IPv6 Deployment in Asia Pacific

IGF

14 September 2010

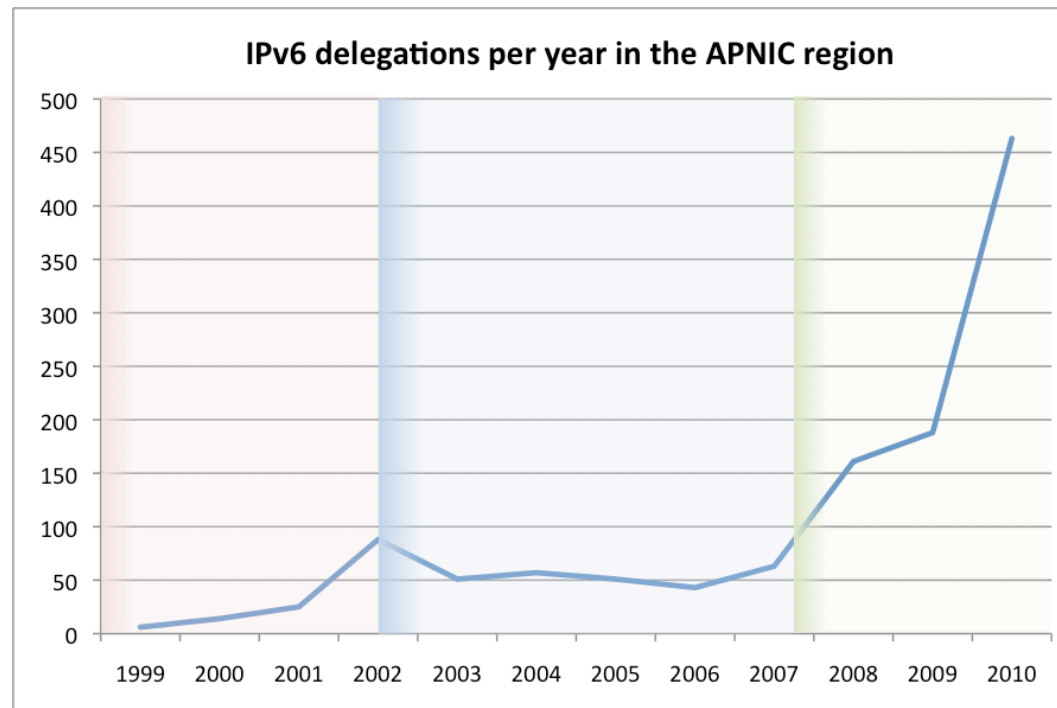
What's driving IPv6 takeup in AP region?

- “One click” IPv6 kickstart policy
 - <http://www.apnic.net/kickstartIPv6>



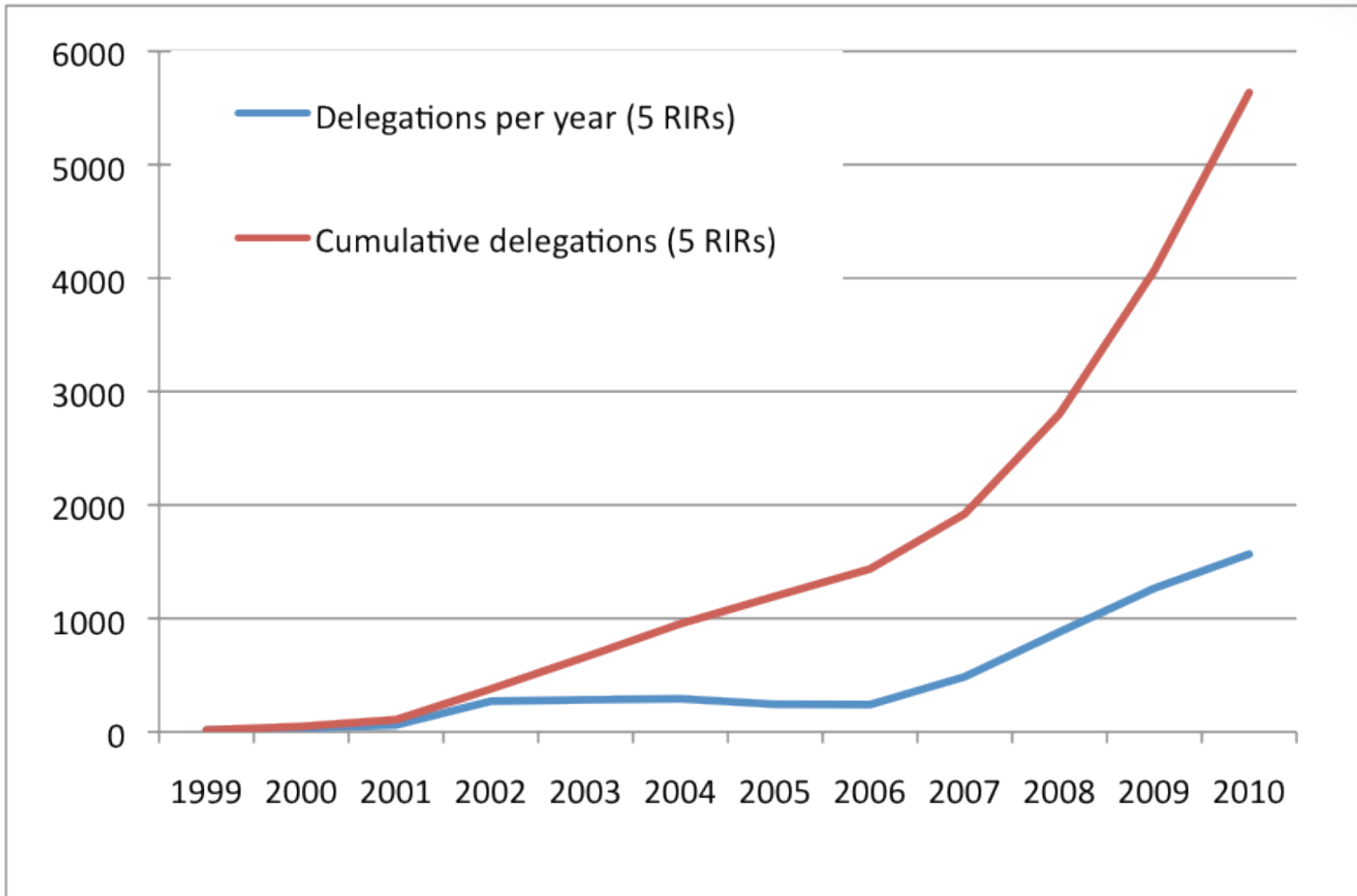
What's driving IPv6 takeup in AP region?

- Almost a quarter of all APNIC account holders now have IPv6 addresses
 - An increase of over 150% in just over a year

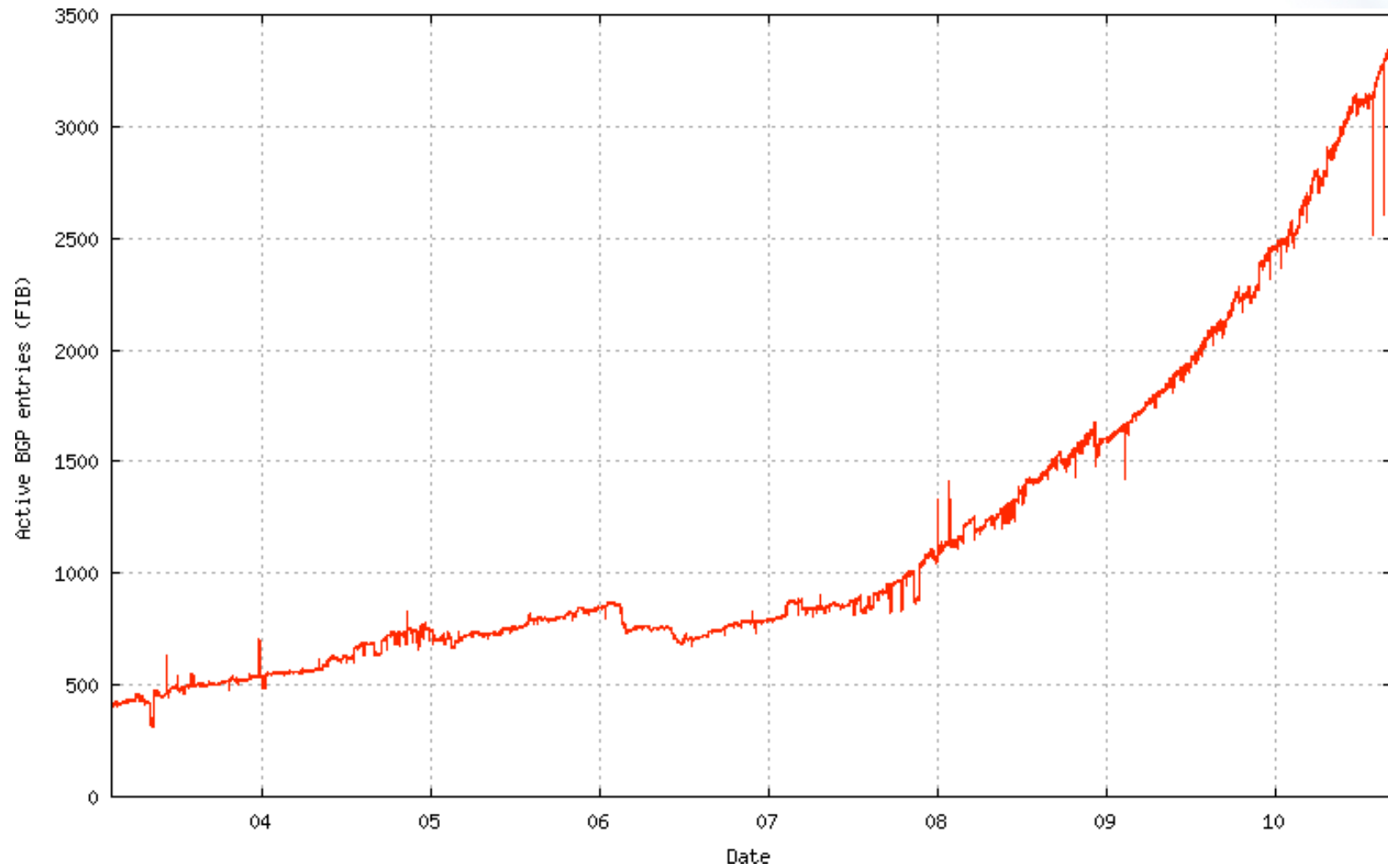


<http://icons.apnic.net/display/IPv6/Three+phases+of+IPv6+allocations>

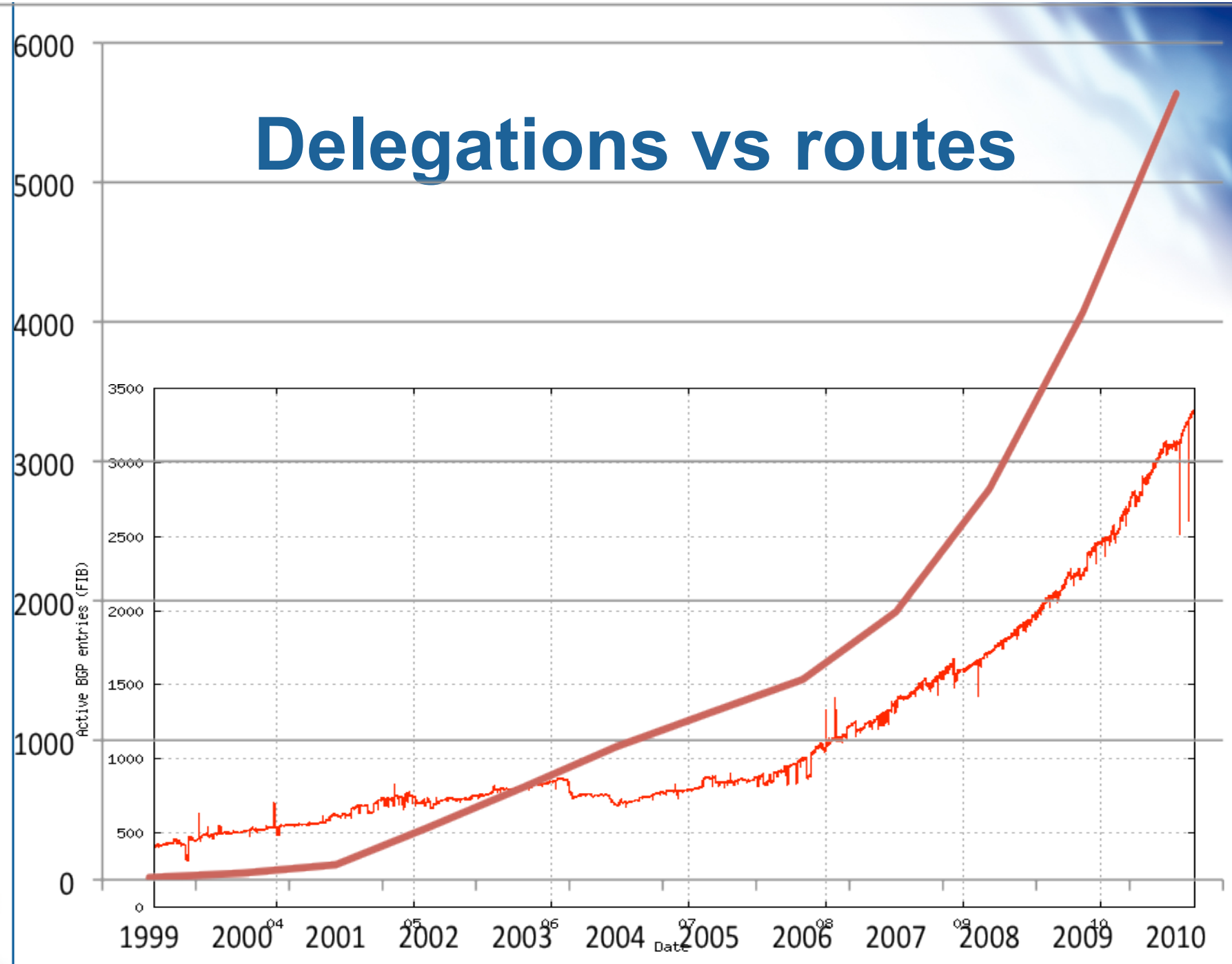
IPv6 delegations globally



IPv6 routing table



Delegations vs routes



IPv6 in Bhutan

- 2010: Druknet (Bhutan Telecom) is using ISIF funding to deploy IPv6, first on its own infrastructure, then its customer networks, and finally assisting other ISPs
- Focus: web and mail servers

IPv6 in the Pacific

- Most Pacific economies have sufficient IPv4 to last a while, but IPv6 preparations and deployment are underway
 - Avonsys, Fiji, has enabled IPv6 on mail server
 - Vodafone Fiji has purchased IPv6 equipment
 - Samoa preparing to deploy IPv6 (American Samoa already deployed)

IPv6 plans

- Some government responses
 - Philippines and Australian targets to enable IPv6 on government networks by 2012
 - New Zealand hopes the government network's deployment of IPv6 will encourage private industry deployment
 - India targets IPv6 on all networks by 2012
 - Pakistan encouraging all networks to enable IPv6 before 2014

Awareness raising

- APIIPv6 Taskforce
 - To assist in IPv6 production-level deployment and promotion in economies in the Asia Pacific region
- APNIC has worked closely with APEC TEL WG to provide 3 IPv6 workshops
- APNIC IPv6 Program

IPv6 Deployment Monitoring Survey

- 2010 first global survey
 - Previously in APNIC and RIPE NCC regions
- 1589 responses from 140 economies
 - AfriNIC: 108
 - APNIC: 310
 - ARIN: 249
 - LACNIC: 138
 - RIPE NCC: 766

IPv6 Deployment Monitoring Survey

- 83.4% have/are considering requesting IPv6 addresses
- Reasons for having/considering IPv6
 - Want to be “ahead of the game”
 - Make sure IPv6 is supported in our products
 - IPv4 exhaustion
- Biggest hurdles deploying IPv6
 - Vendor support
 - Knowledgeable staff
 - Cost

IPv6 Deployment Monitoring Survey

- IPv6 problems in production
 - Lack of user demand
 - No experience yet
 - Technical problems
- IPv6 setup: 87.1% dual stack