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IPv6, Act Now!

Daniel Karrenberg, RIPE NCC Chief Scientist

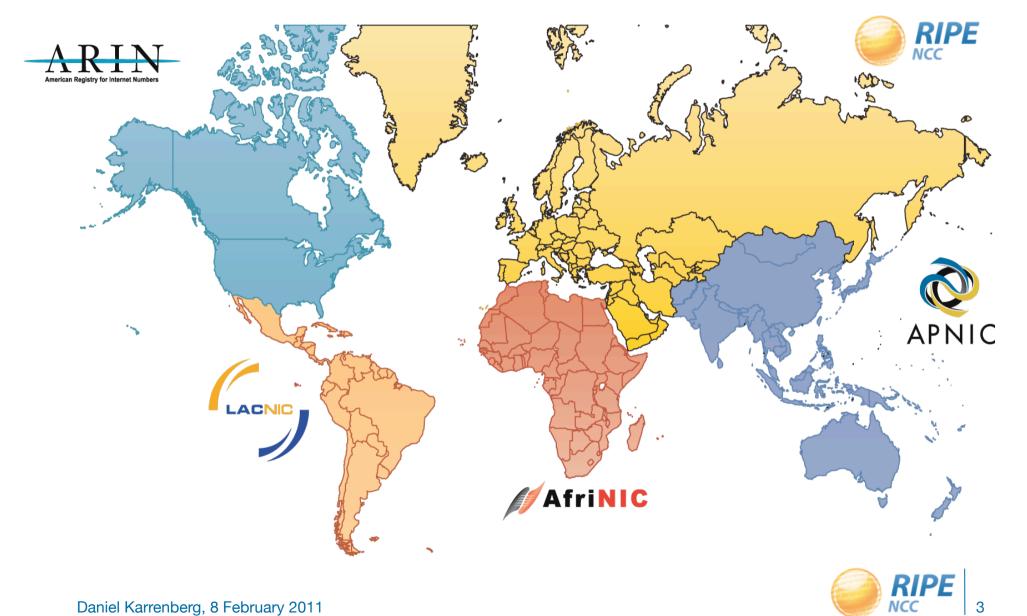


Who is talking: Daniel Karrenberg

- 1980s: helped build Internet in Europe
 - EUnet, Ebone, IXes, ...
 - RIPE
- 1990s: helped build RIPE NCC
 - 1st CEO: 1992-2000
- 2000s: Chief Scientist & Public Service
 - Trustee of the Internet Society: IETF, ...
 - Interests: Internet measurements, stability, trust & identity in the Internet, ...



The five Regional Internet Registries



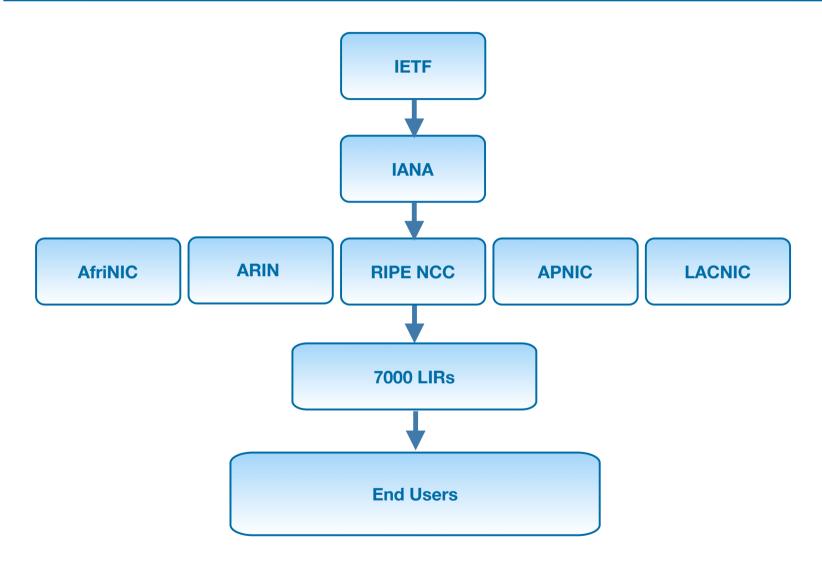


RIPE NCC

- One of 5 Regional Internet Registries
- Supports coordination of Internet operations
- Not for profit membership organisation
- 7000+ members
- Distributes Internet resources to members
- RIPE DB, training, information services, measurements
- **RIPE**: Bottom-up, self-regulated, open to everyone
- Neutral, Impartial, Open, Transparent

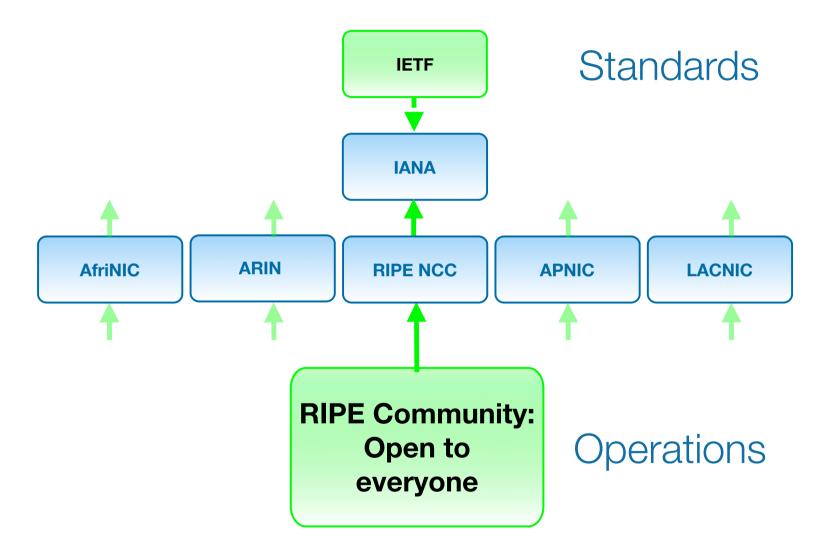


Where do all the addresses come from?



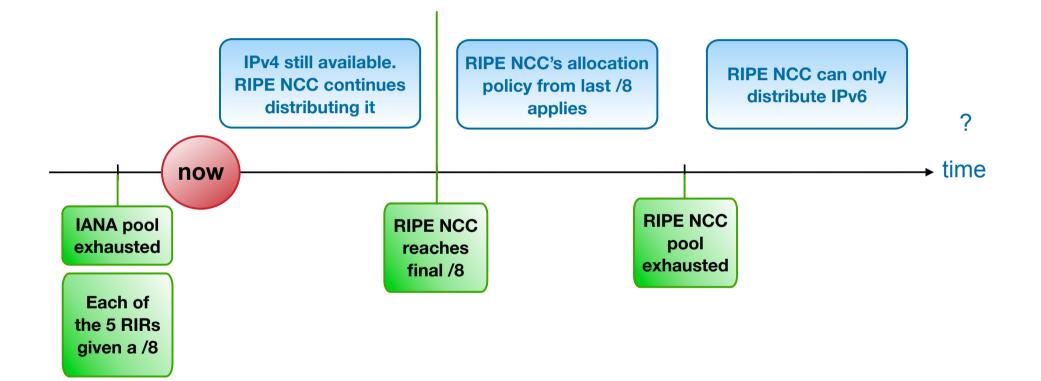


Policy process: decision making



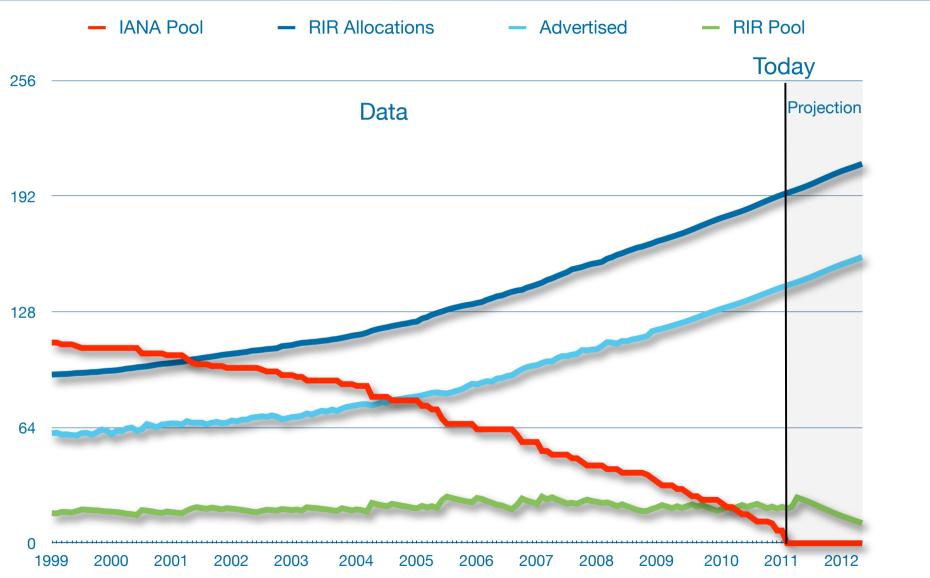


IPv4 exhaustion phases





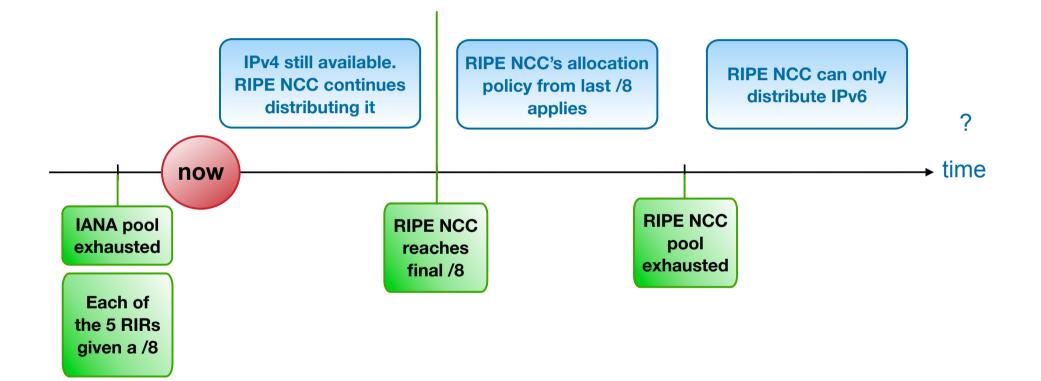
IPv4 allocation timeline





Daniel Karrenberg, 8 February 2011

IPv4 exhaustion phases



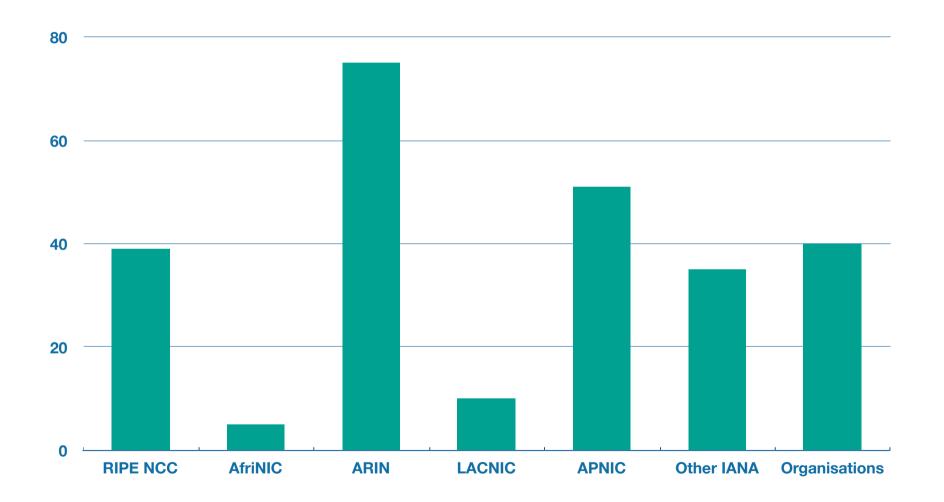


Last /8 address block the of the RIPE NCC

- Last /8 distributed according to RIPE community policy ripe-509
- Ensures IPv4 access for future members
 - 16000+ /22s in a /8
 - members can get **one /22 only** (1000+ addresses)
 - must already hold IPv6
 - must qualify for allocation
- /16 set aside for unforeseen situations
 - if unused, will be distributed

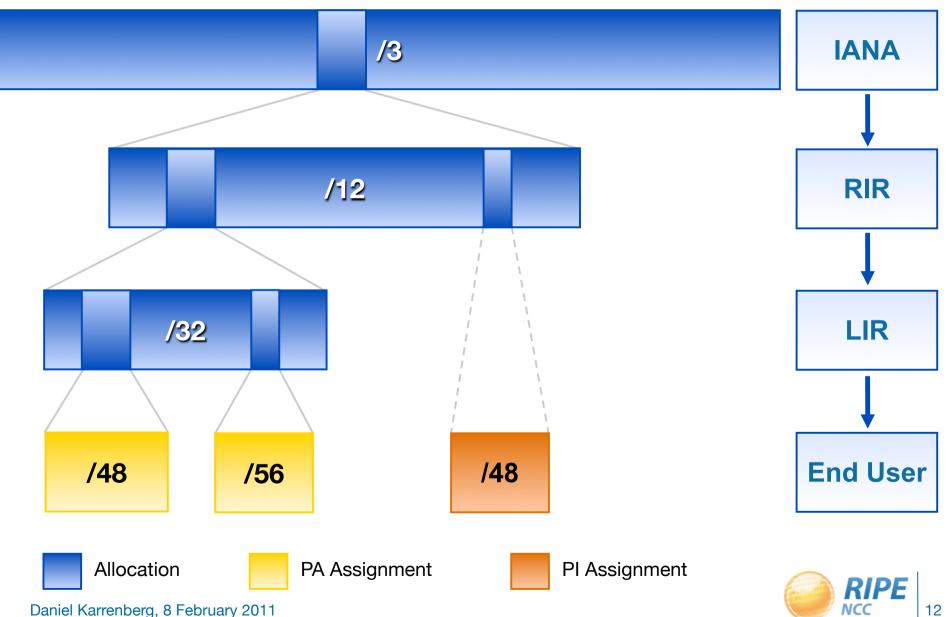


IPv4 address pool: /8-s used in each region





IPv6 address distribution



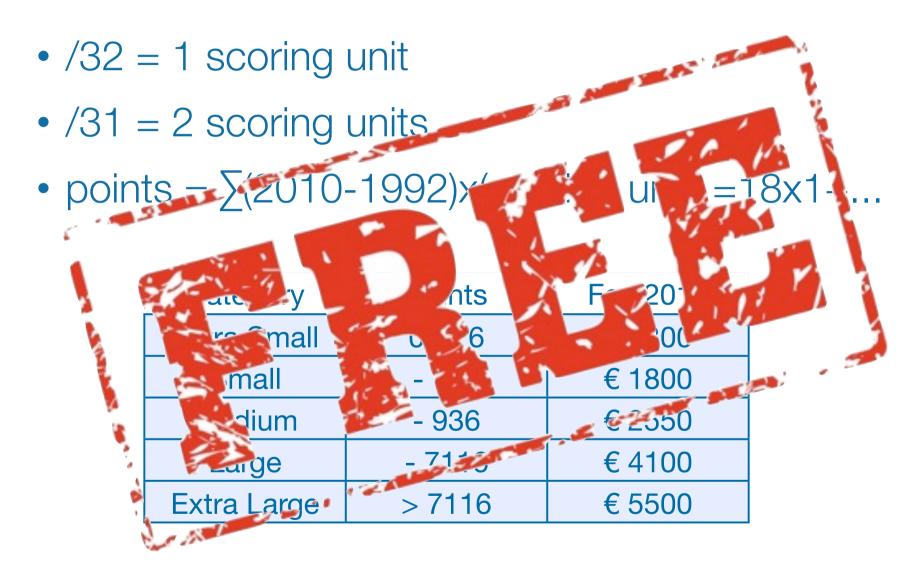
Daniel Karrenberg, 8 February 2011

Deploy production grade IPv6 now !

- Regional Internet Registries will have to start turning down requests for IPv4 addresses in 2011
- Networks need to continue growing
- Deploy production grade IPv6 now !
 - The time for excuses is over
 - The time for experiments is over



What does an IPv6 allocation cost?



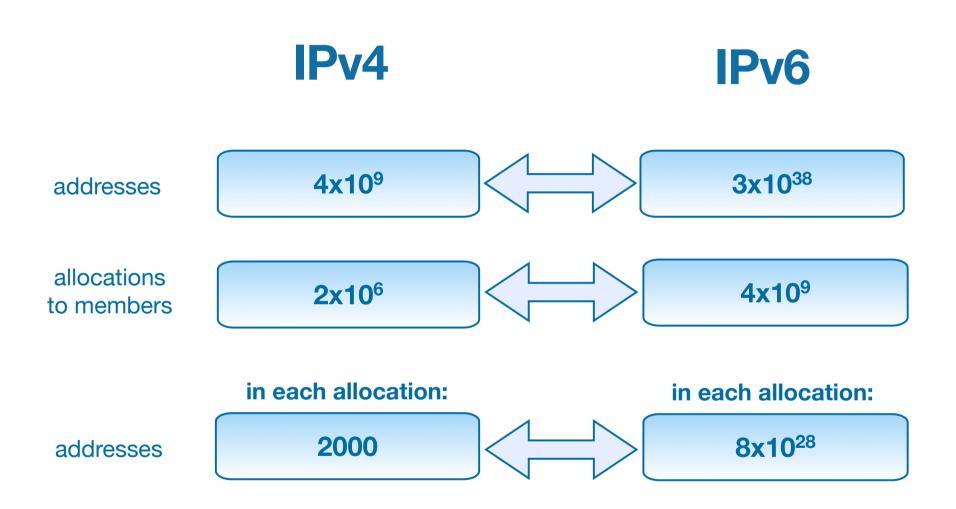


Number of addresses (rounded off)

- IPv4
 - -4,000,000,000
- IPv6

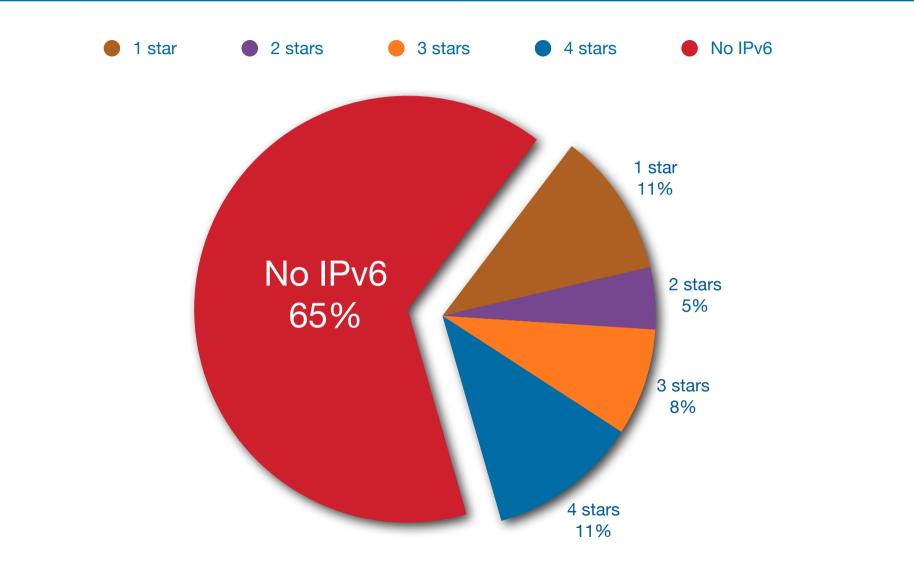


IPv4 vs IPv6 (rounded off)



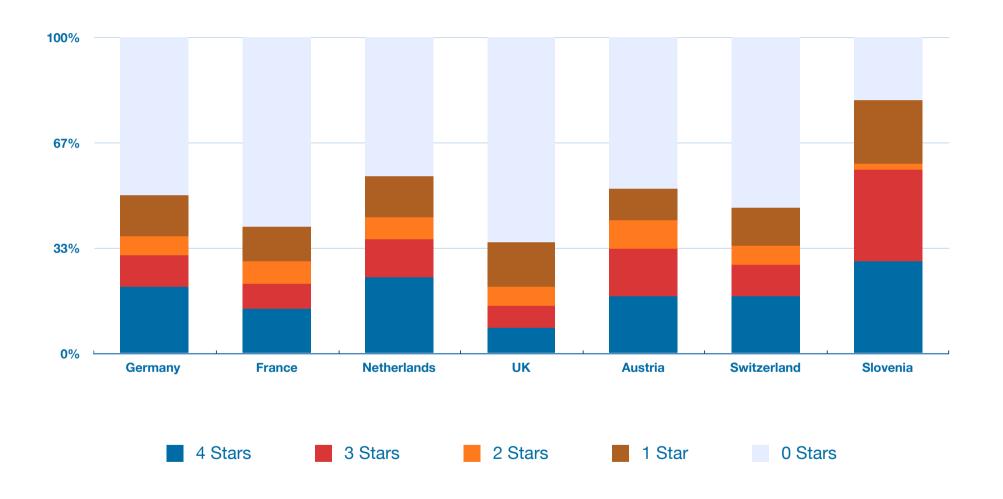


IPv6 RIPEness – total membership



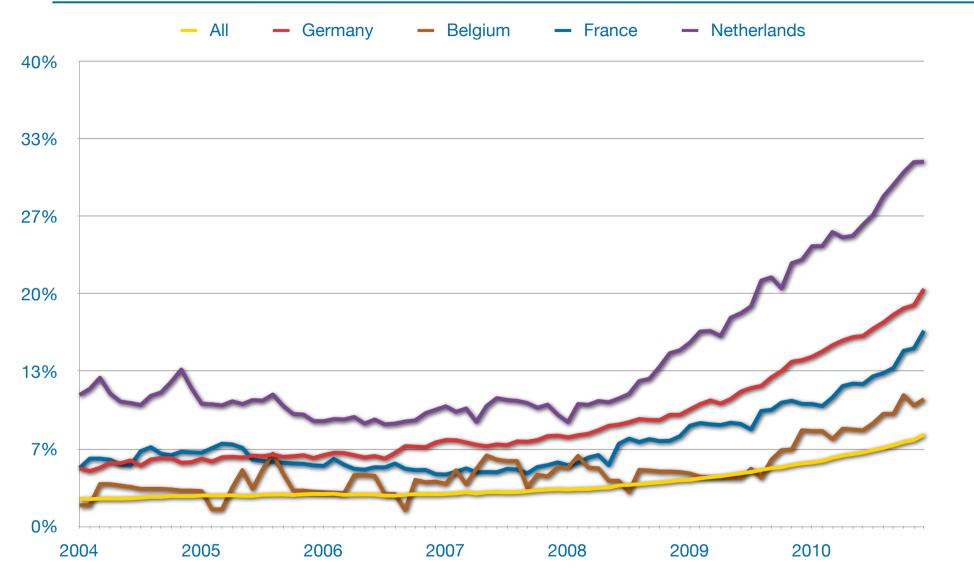


IPv6 RIPEness – countries



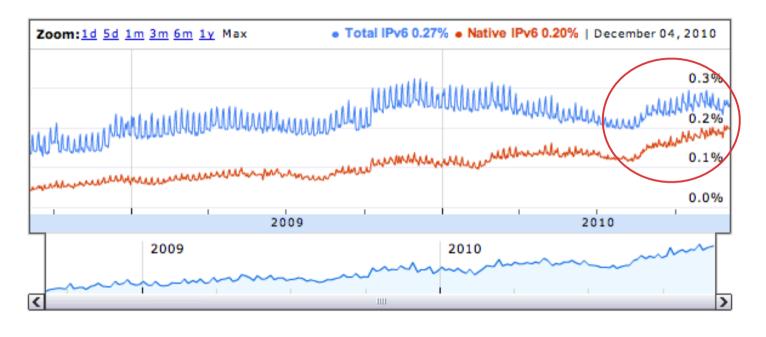


IPv6 enabled ASes in global routing





Google's IPv6 Stats



©2010 Google

- Notice the recent acceleration of "native"
- Still too slow



Daniel Karrenberg, 8 February 2011

- Deploy production grade IPv6 now !
 - The time for excuses is over
 - The time for experiments is over
- It can be done !



heise online

- Major German IT Site
- Operating www.six.heise.de since 2009
- Switched on IPv6 on main site for 24 hours in September 2010
- Very few problems, decided to keep it switched on!



• xs4all

- Dutch Internet Service Provider (ISP)
- -270,000 customers
- Offering IPv6 as standard to home users since August 2010
- Only 1.5% of customer base opted in by November 2010
- "Customers don't want to spend much effort"

Marco Hogewoning, XS4ALL



• Hetzner

- Major German Hosting Provider
- Offering IPv6 at no additional cost for severs
- Set-up extremely easy
- IPv6 connectivity production grade



Wikileaks Mirrors

ad-hoc Volunteers

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Deploy production grade IPv6 now !

- Regional Internet Registries will have to start turning down requests for IPv4 addresses in 2011
- Networks need to continue growing

Deploy production grade IPv6 now !

 The time for excuses is over
 The time for experiments is over



Join the IPv6 Day on 8 June 2011!

- Major organisations offer all content over IPv6 for a day
 - Google, Facebook, Yahoo!, Akamai, Limelight NW, etc
- Test drive
- IPv4 not "switched off"
- Want to participate?
 - http://isoc.org/wp/worldipv6day/
 - content providers: dual stack & AAAA records in DNS



Questions?



