IPv6 - where are we?

3 indicators of IPv6 deployment

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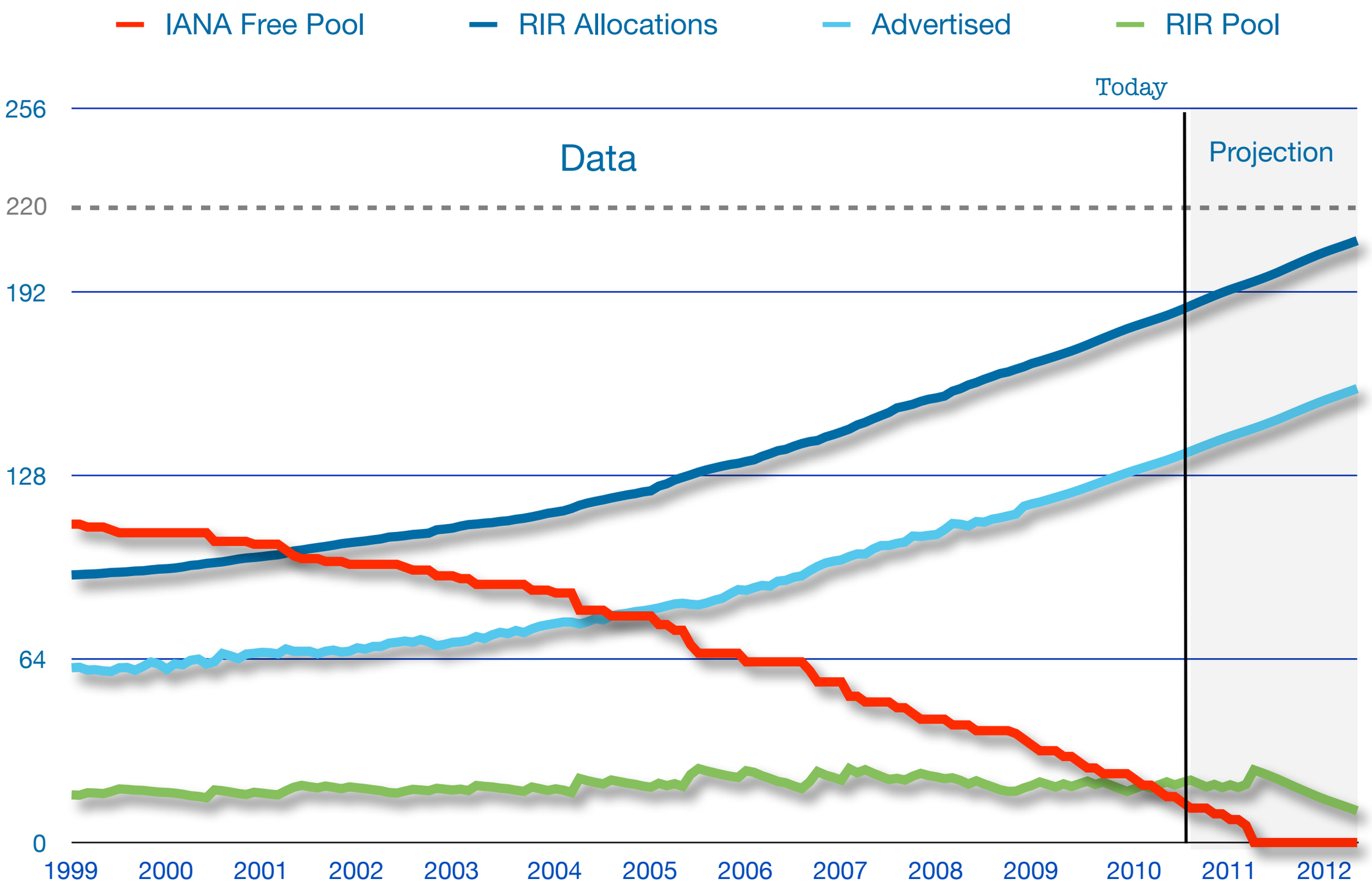
RIPE NCC

IPv4 Allocation Timeline



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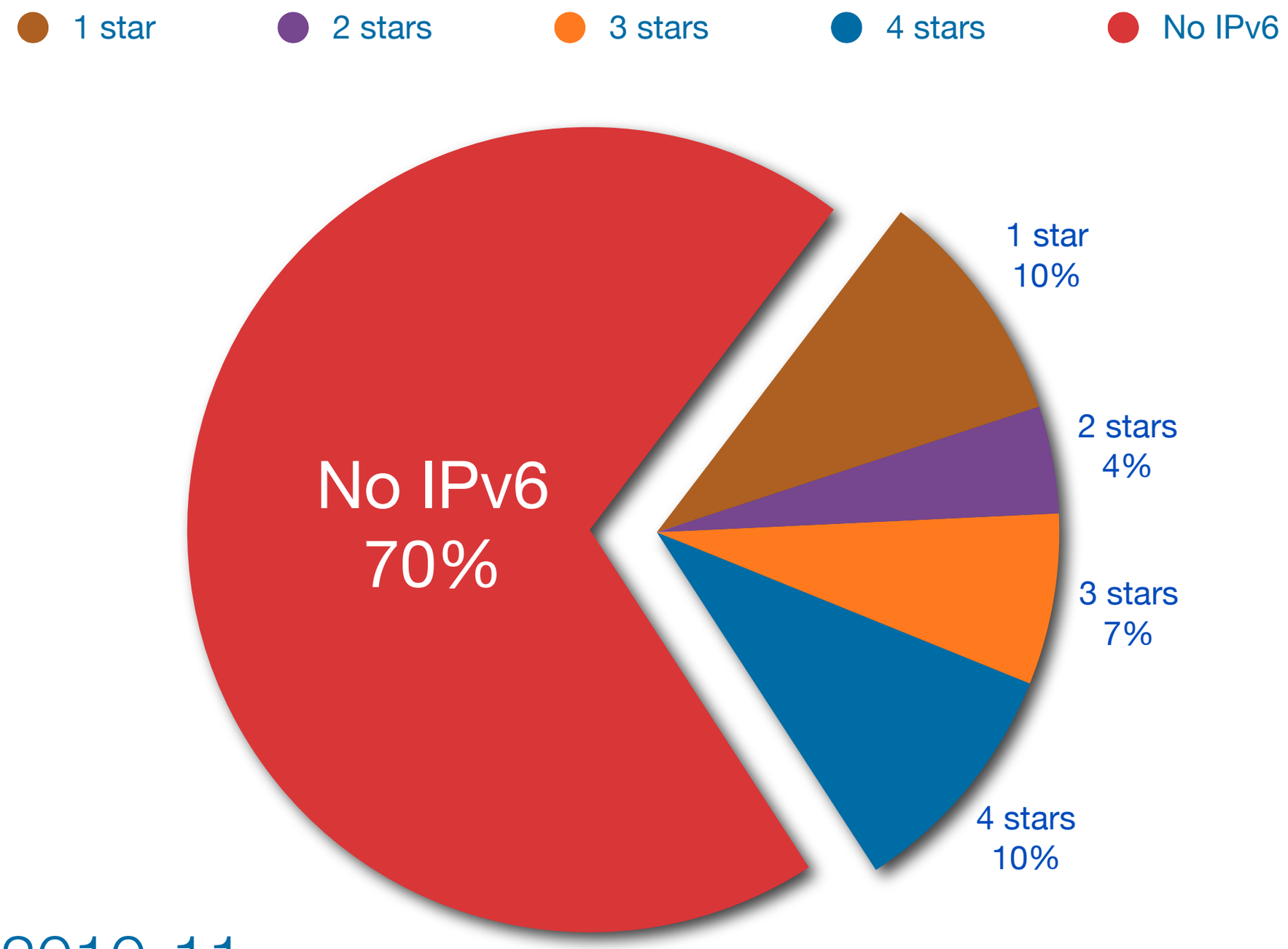
IPv4-only to dual-stack - small steps

1. Get IPv6 address space
   - it's free
2. Start routing it
3. Enable on servers
   - DNS is a good first candidate
4. Provide to end-users

1) IPv6 RIPEness

- Rating system:
  - One star if the LIR has an IPv6 allocation
  - Additional stars if:
    - IPv6 prefix is visible in global routing
    - A route6 object is in the RIPE Database
    - Reverse DNS is set up

IPv6 RIPEness – Total Membership



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IPv6 RIPEness - 4-star LIRs

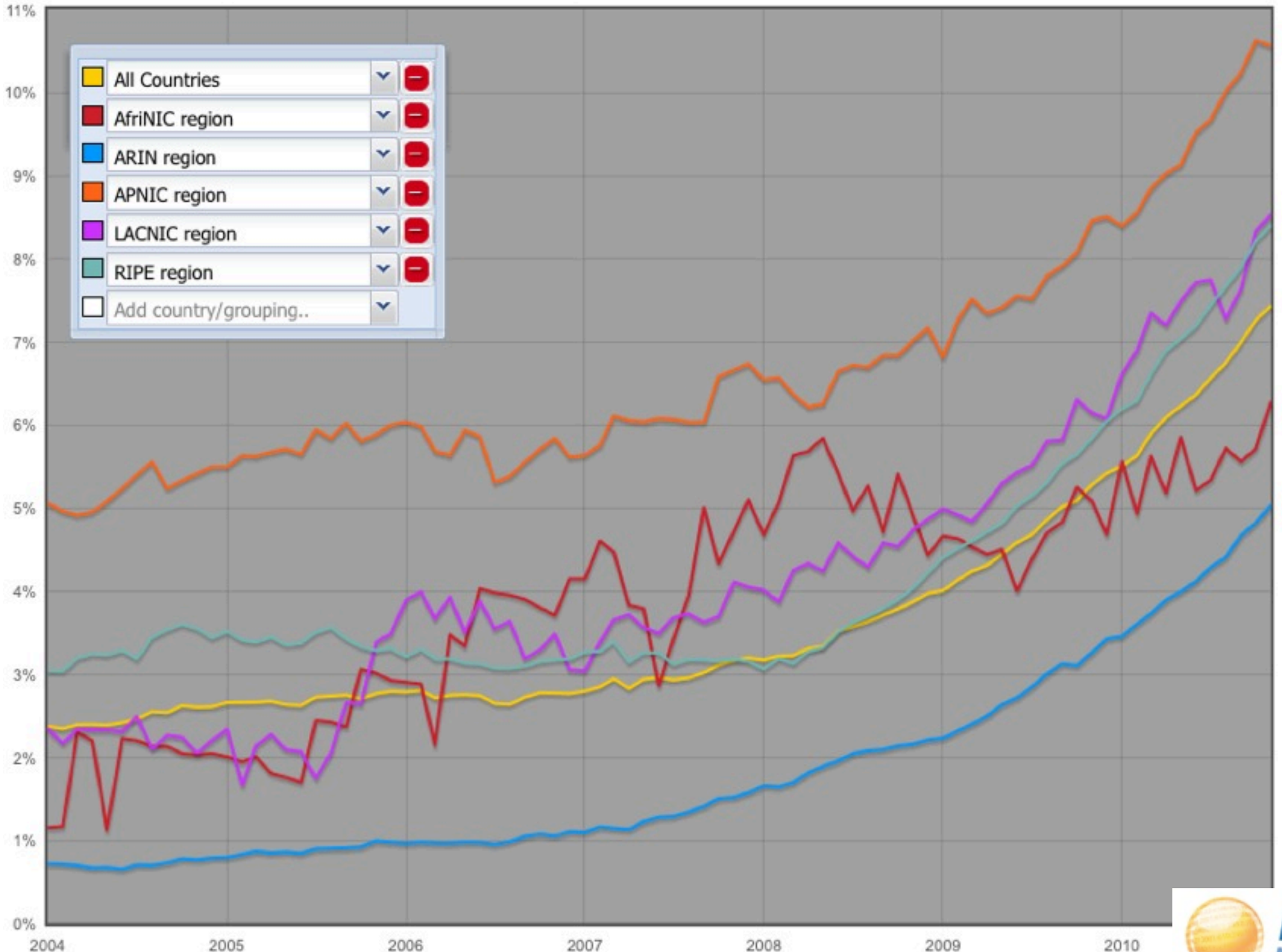
- List with 4-star LIRs available at:
  - http://ripeness.ripe.net/4star/
- Promotes using IPv6 and registration in RIPE DB

- Per country stats:
  - http://ripeness.ripe.net/pies.html

2) IPv6 enabled ASs in global routing

- Spin-off from cooperation with the OECD
- http://v6asns.ripe.net/
- Country and region level statistics
  - Important for decision makers
  - Allows people to compare to their region (Leon Festinger)

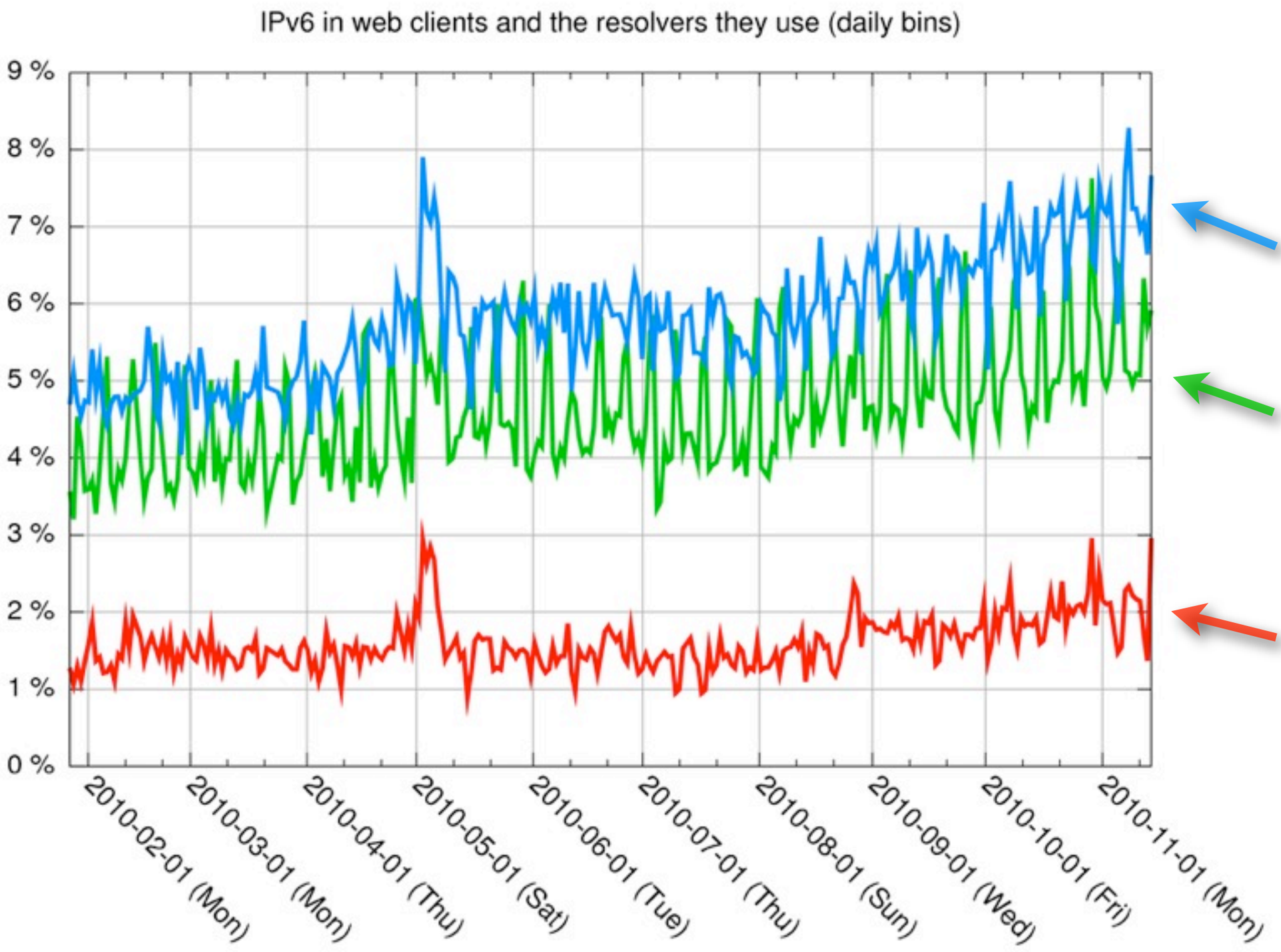
2) IPv6 enabled ASs in global routing



3) IPv6 traffic from resolvers and end-users

- Measuring web clients and the DNS resolvers they use (presented at RIPE-60)
- In cooperation with Geoff Huston, George Michaelson (APNIC)
- JavaScript on participating websites
  - www.ripe.net and 5 others
- Bias by website-audience
  - allows for adoption stats per audience type
- http://albatross.ripe.net/v6-clientresolver/

IPv6 at clients and resolvers (www.ripe.net)



DNS resolvers v6 capability

Web clients v6 capability

Web clients v6 preference

RIPE NCC

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Overall

	RIPE 60	RIPE 61
IPv6 RIPEness (1+ star)	28% (RIPE region)	30%
IPv6 AS	6.2%	7.3%
IPv6 capable resolvers	5.5%	7%
Dual stack web clients	1.5% (techies)	2%

Are we ready for IPv4 depletion?

Questions?