

IPv6 - where are we?

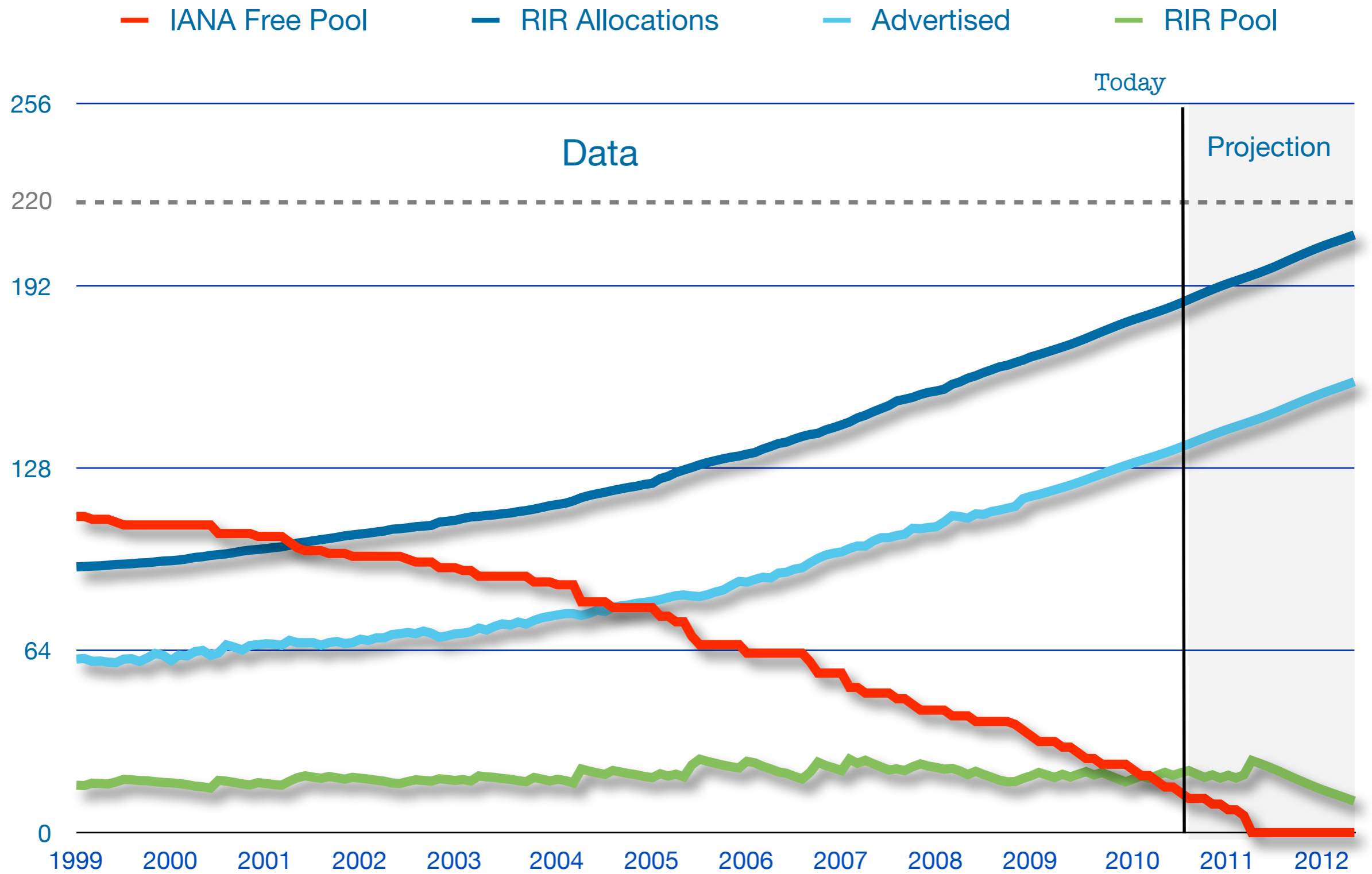
3 indicators of IPv6 deployment

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IPv4 Allocation Timeline



IPv4-only to dual-stack - small steps

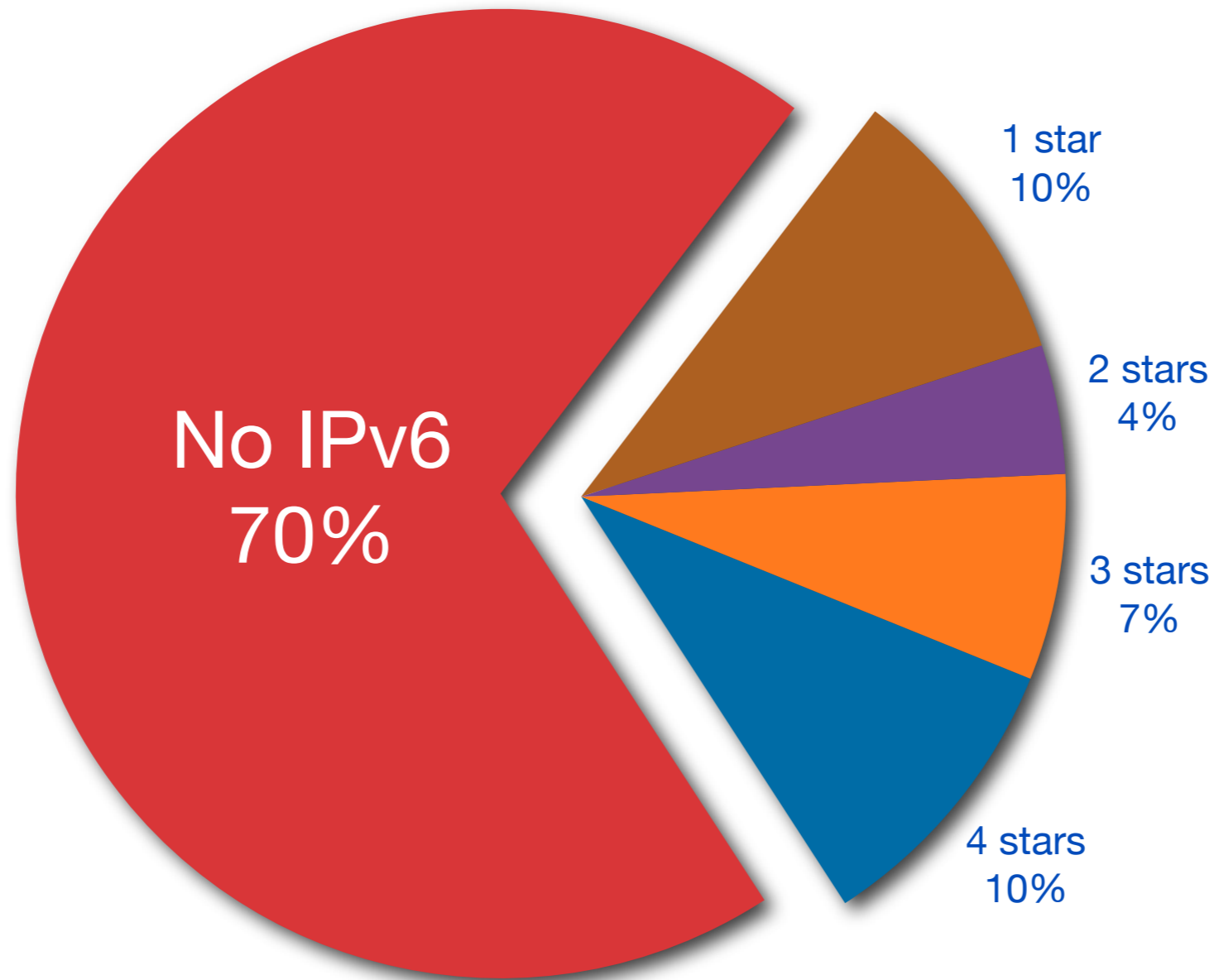
1. Get IPv6 address space
 - it's free
2. Start routing it
3. Enable on servers
 - DNS is a good first candidate
4. Provide to end-users

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

● 1 star ● 2 stars ● 3 stars ● 4 stars ● No IPv6



2010-11

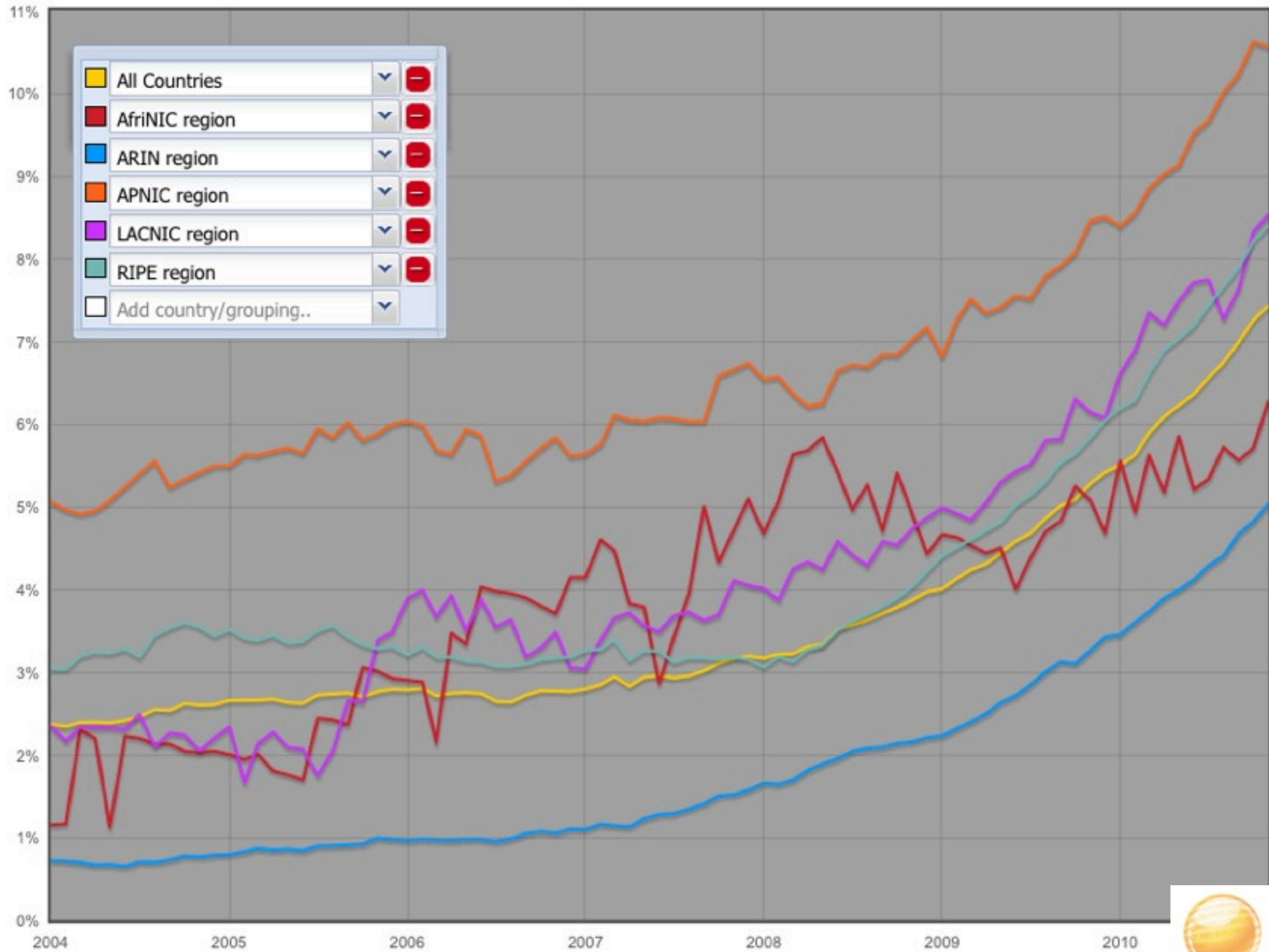
IPv6 RIPEness - 4-star LIRs

- 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

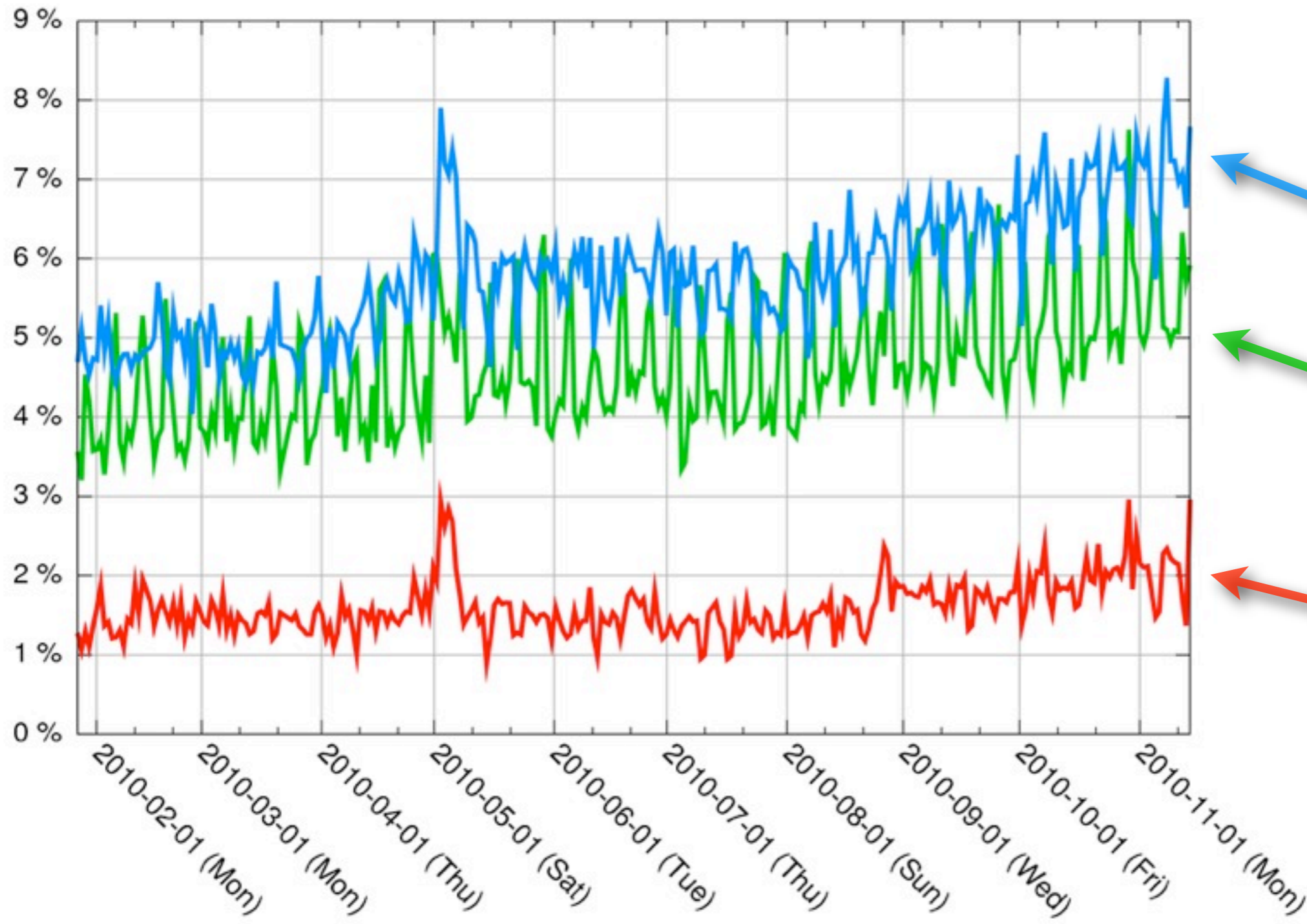


3) IPv6 traffic from resolvers and end-users

- 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)

IPv6 in web clients and the resolvers they use (daily bins)



- ← DNS resolvers v6 capability
- ← Web clients v6 capability
- ← Web clients v6 preference

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?

