



IPv6 Deployment Survey

Based on responses from the global Regional Internet Registry (RIR)
community during June 2012

-

Maarten Botterman

maarten@gnksconsult.com

For the RIPE 65 meeting in Amsterdam on 27 September 2012

rev1

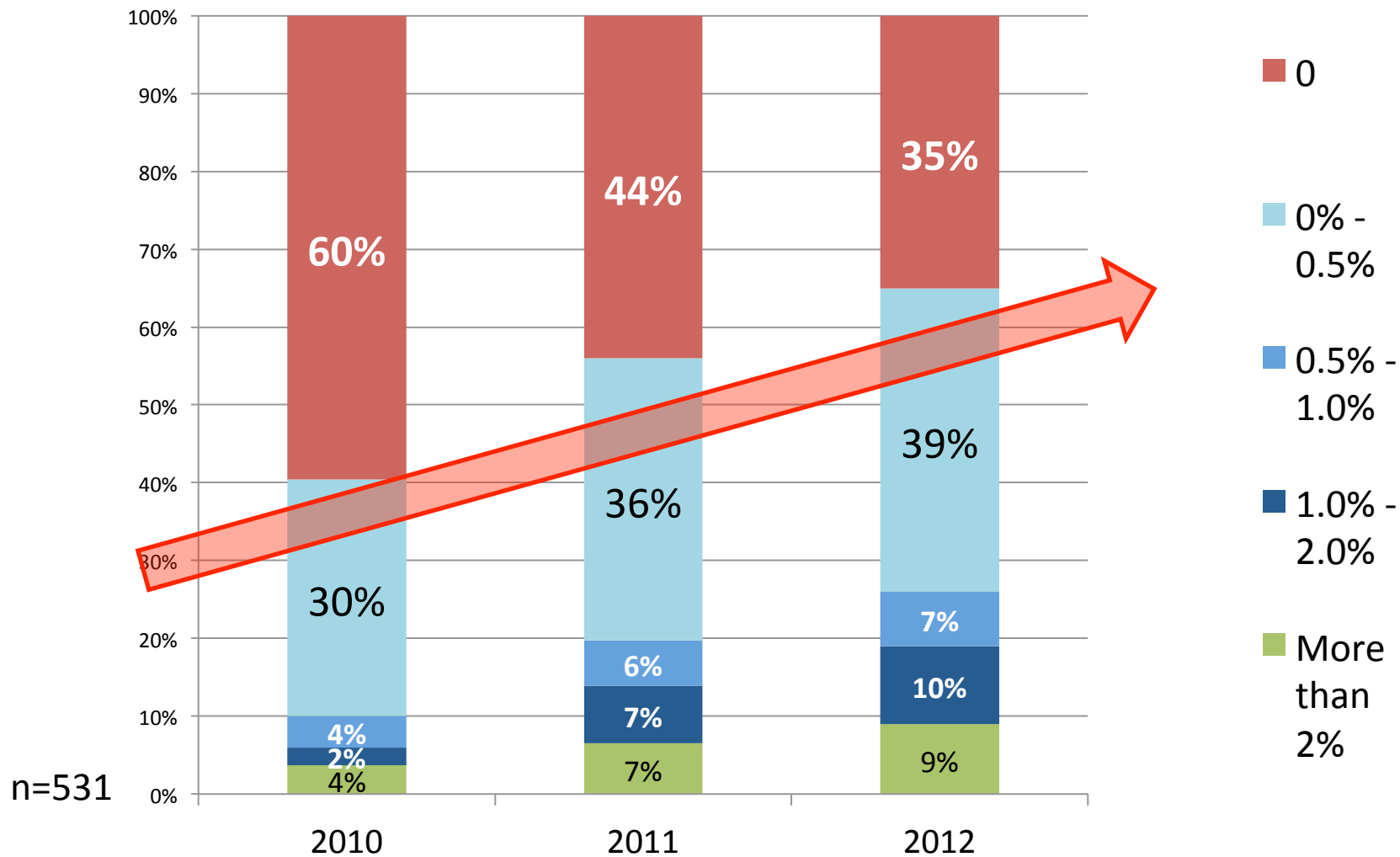
IPv6 is becoming reality now

Main conclusion of the 2012 survey

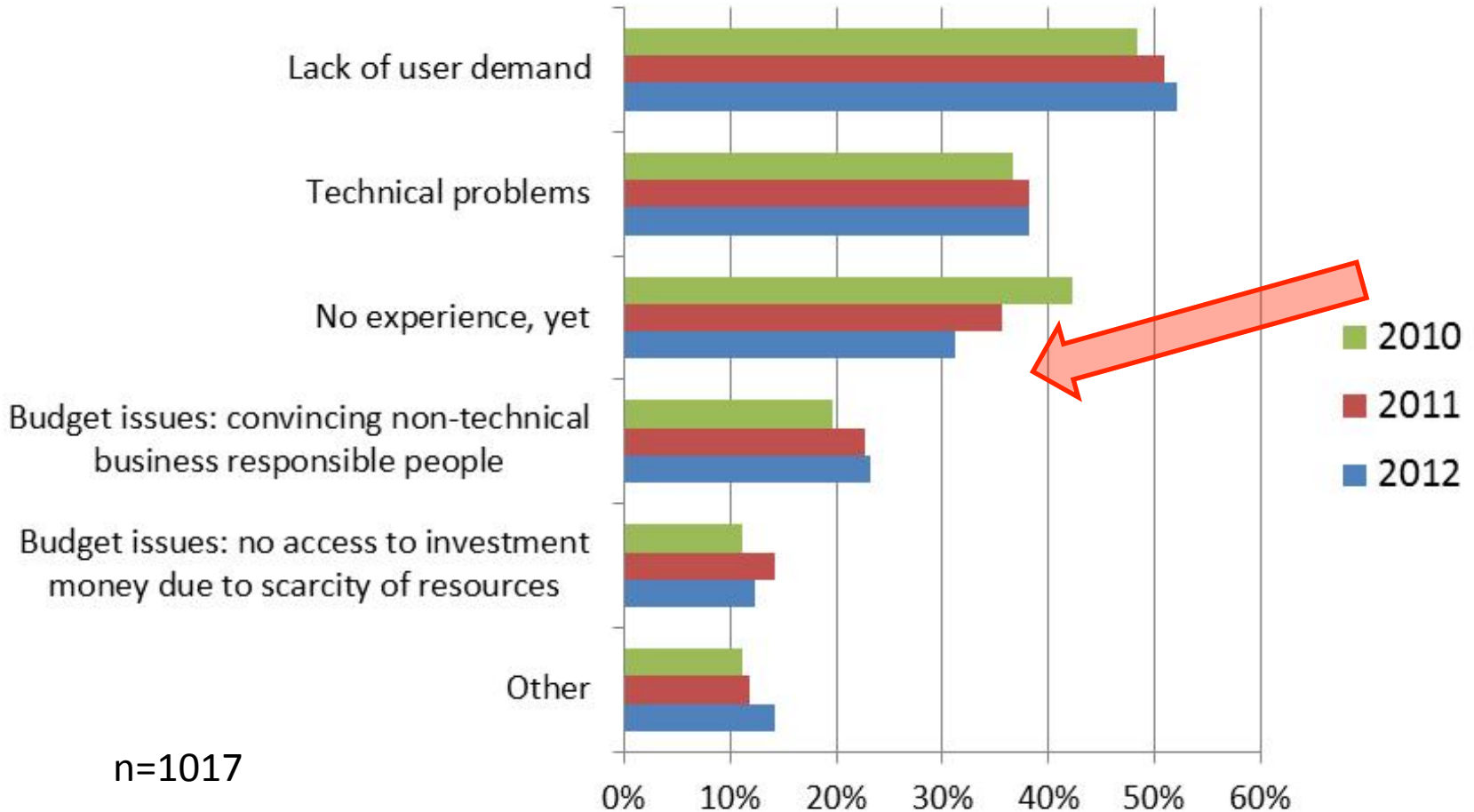
Global IPv6 Deployment Monitoring Survey

- Aim is to establish the best possible comprehensive view of present IPv6 penetration and future plans of IPv6 deployment
- Best way to establish this is to ask the Internet providers and users, basically: the RIR communities around the world
- ARIN carried out such a survey with its members in March 2008, a starting point for the currently proposed survey
- RIPE NCC and APNIC carried out this same survey in 2009. In 2010, 2011 and 2012, all RIRs participated to the survey making it truly global:
 - Survey was prepared and carried out by GNKS in close collaboration with RIPE AFRINIC, APNIC, ARIN, LACNIC and RIPE NCC
 - Survey was kept short and focused on essentials. Changes to the survey were kept to a minimum and are taken into account in the analysis
 - Privacy is guaranteed
- Every year, the last question is whether the survey should take place again next year. In 2009, 2010, 2011 and 2012 more than 90% of the respondents said “yes”

What percentage of your customer base uses IPv6 connectivity?

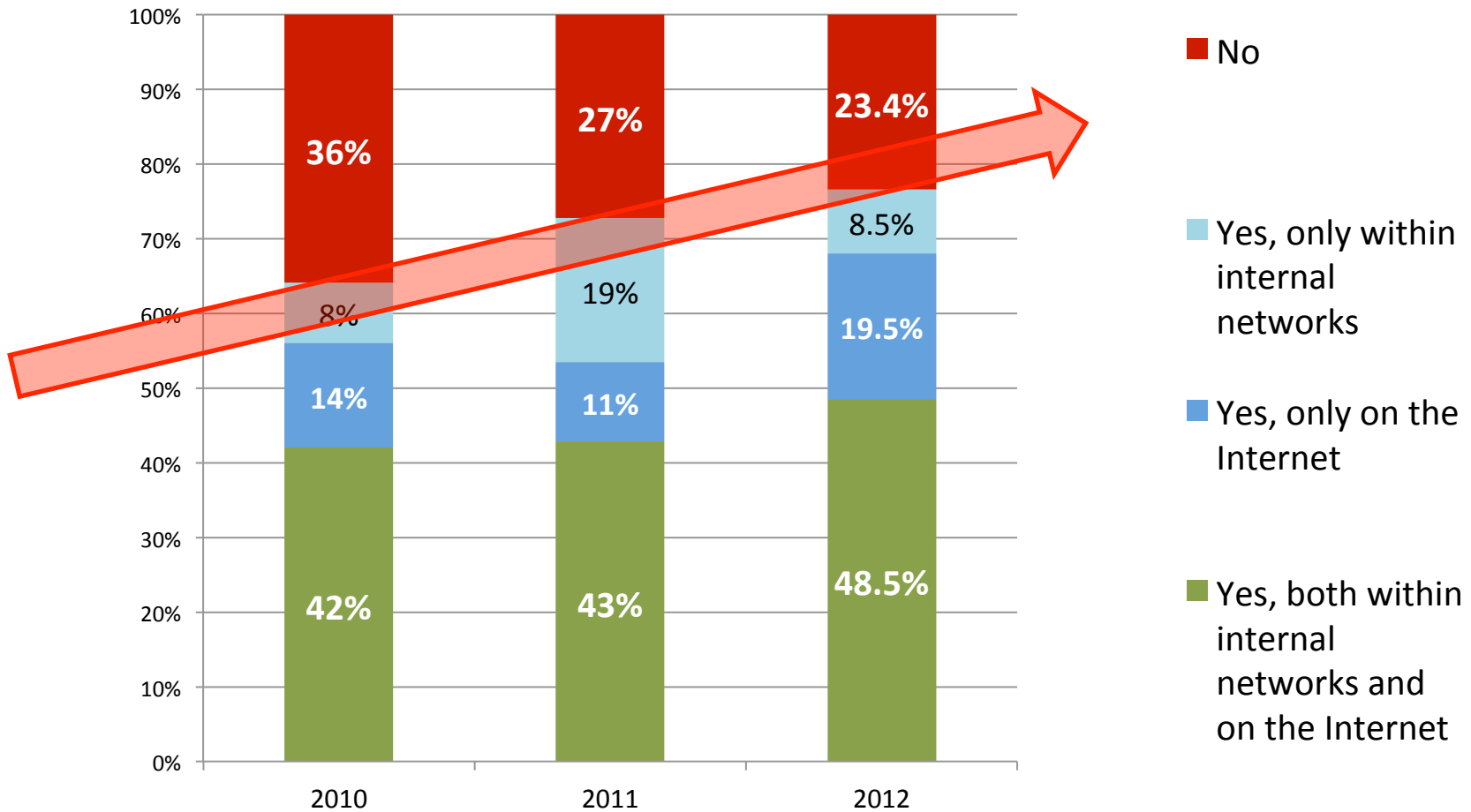


What are the biggest problems with IPv6 in production?

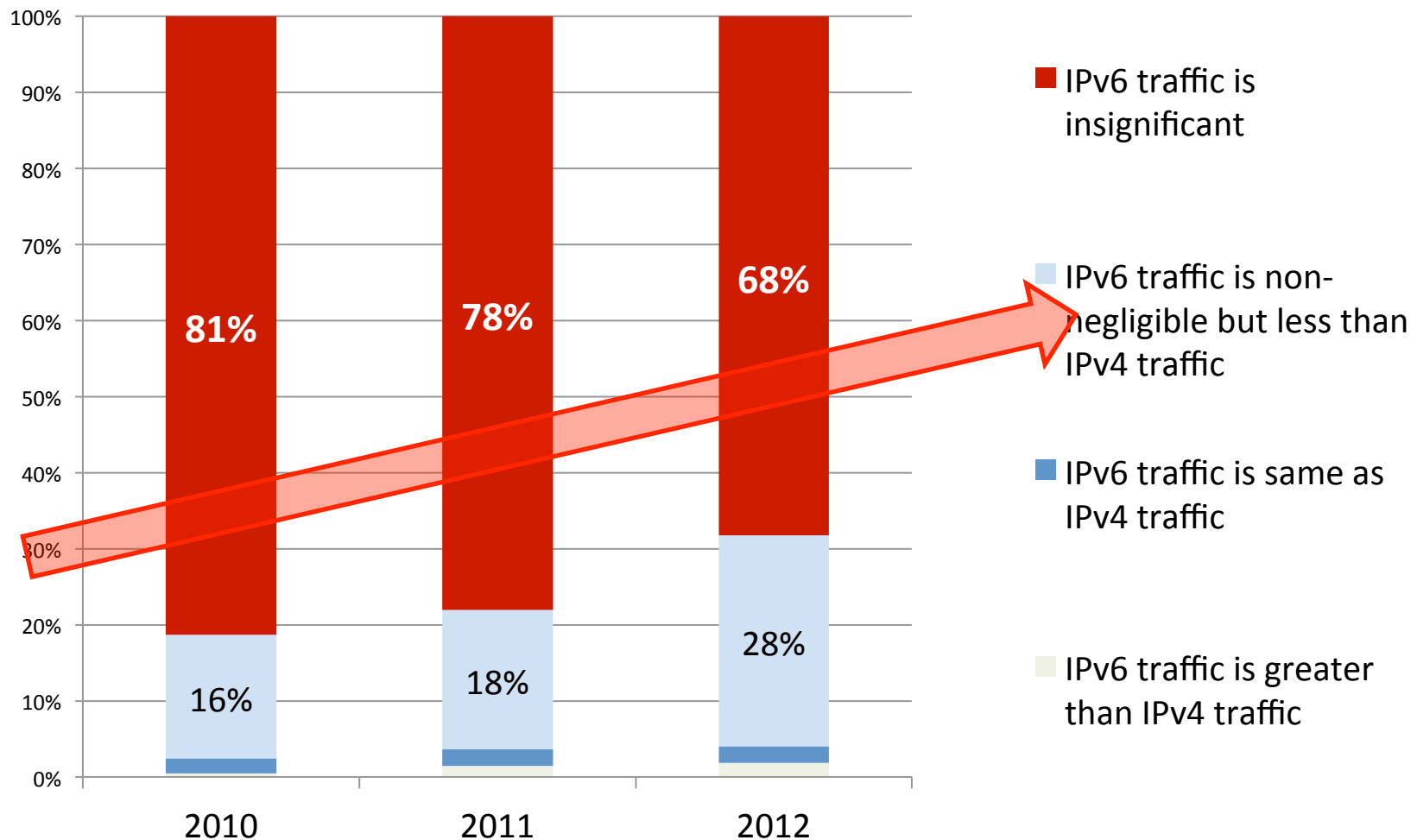


n=1017

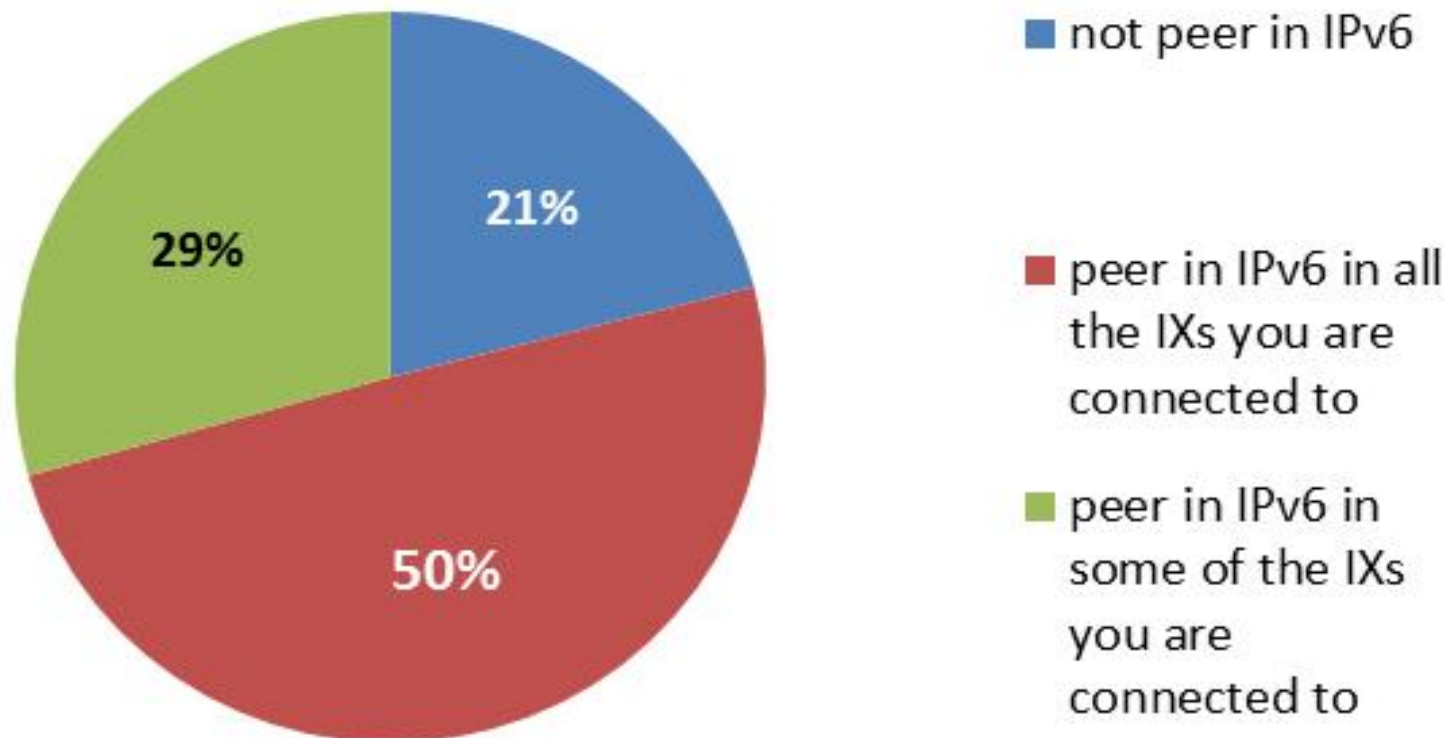
Does your organization have an IPv6 presence ?



If your organization has IPv6 in production, how does the amount of IPv6 traffic compare to your IPv4 traffic?



If your organisation is connected to one or several Internet Exchanges (IXs), do you:

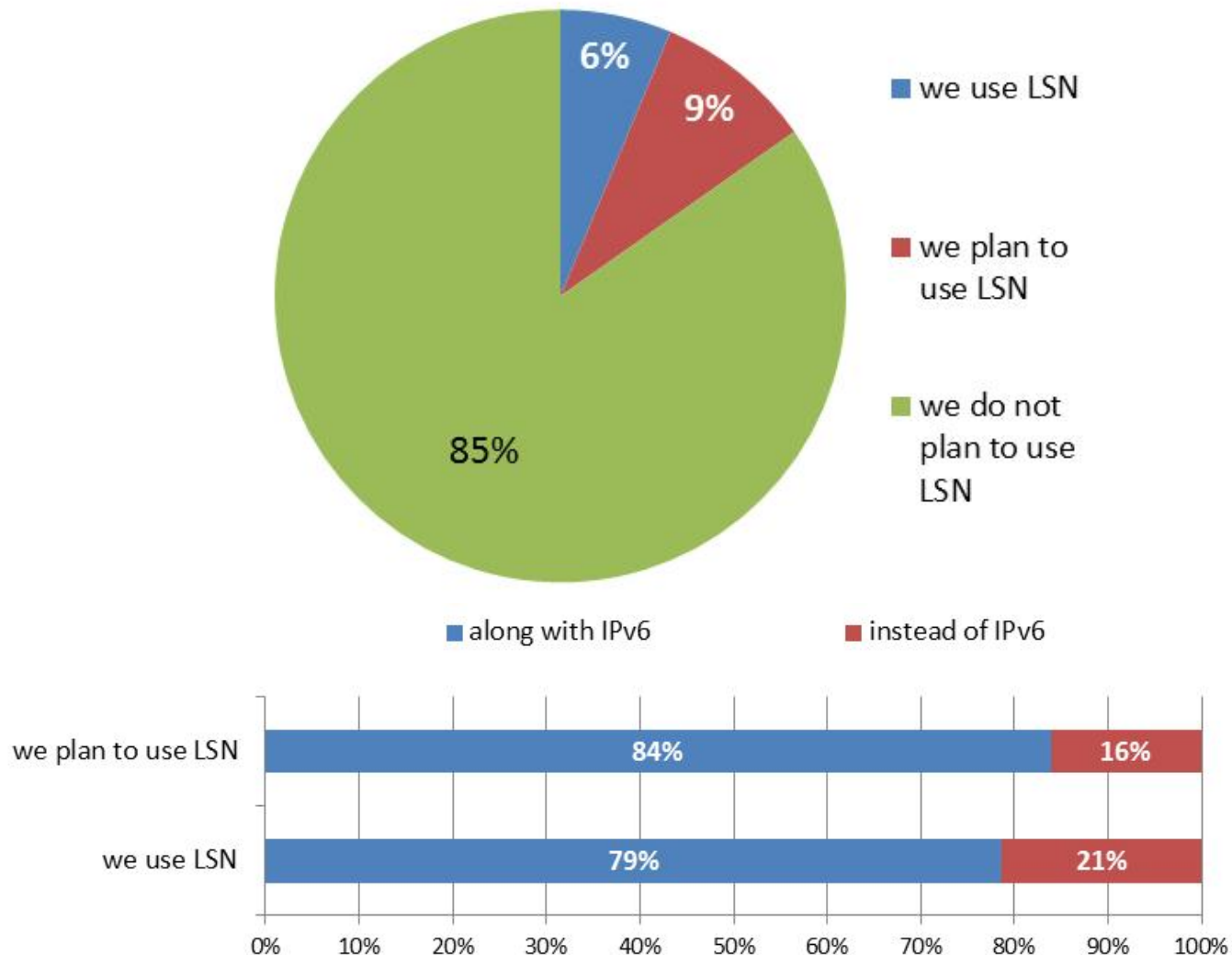


n=552

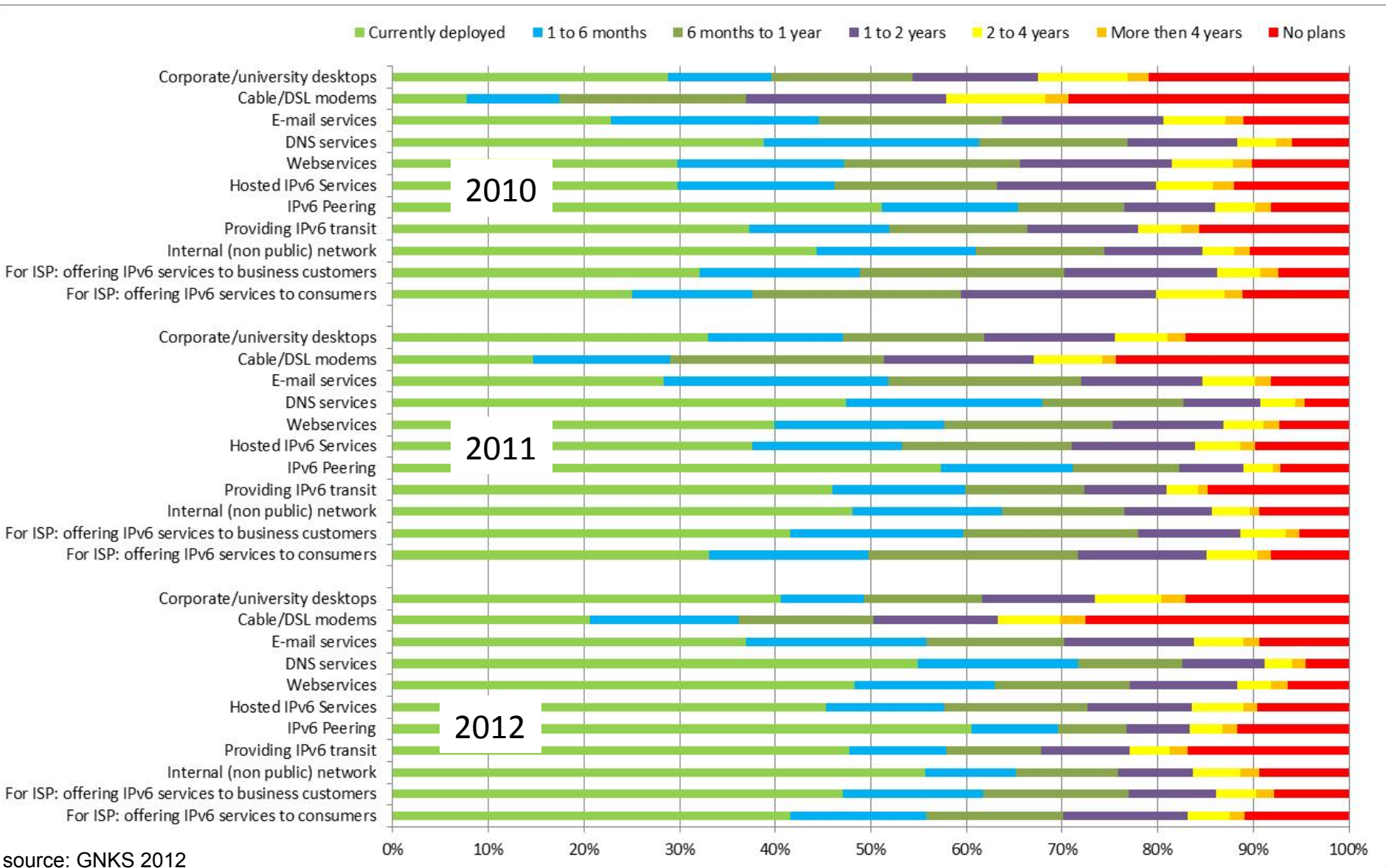
source: GNKS 2012

These answers are given by the 55% of the 1104 respondents, who indicated to connect to IXs.

On Large Scale NAT (LSN aka CGN (Carrier Grade NAT):



Which best describes your organization's IPv6 implementation (plans)?



Main Conclusion Survey 2012

- 77% of respondents have some level of IPv6 presence today
 - 73% in 2011
 - 64% in 2010
- 32% of responding ISPs indicate that IPv6 traffic is now “significant”
 - 22% in 2011
 - 19% in 2010

➤ *The survey findings confirm that emphasis shifts from “IPv6 preparedness” to real IPv6 usage now*

The 2012 Global IPv6 Deployment survey was made possible by the Number Resource Organisation

We thank all respondents for their contributions !

91% of the respondents to the question “Would you be interested to participate again to this survey in a years’ time” said:

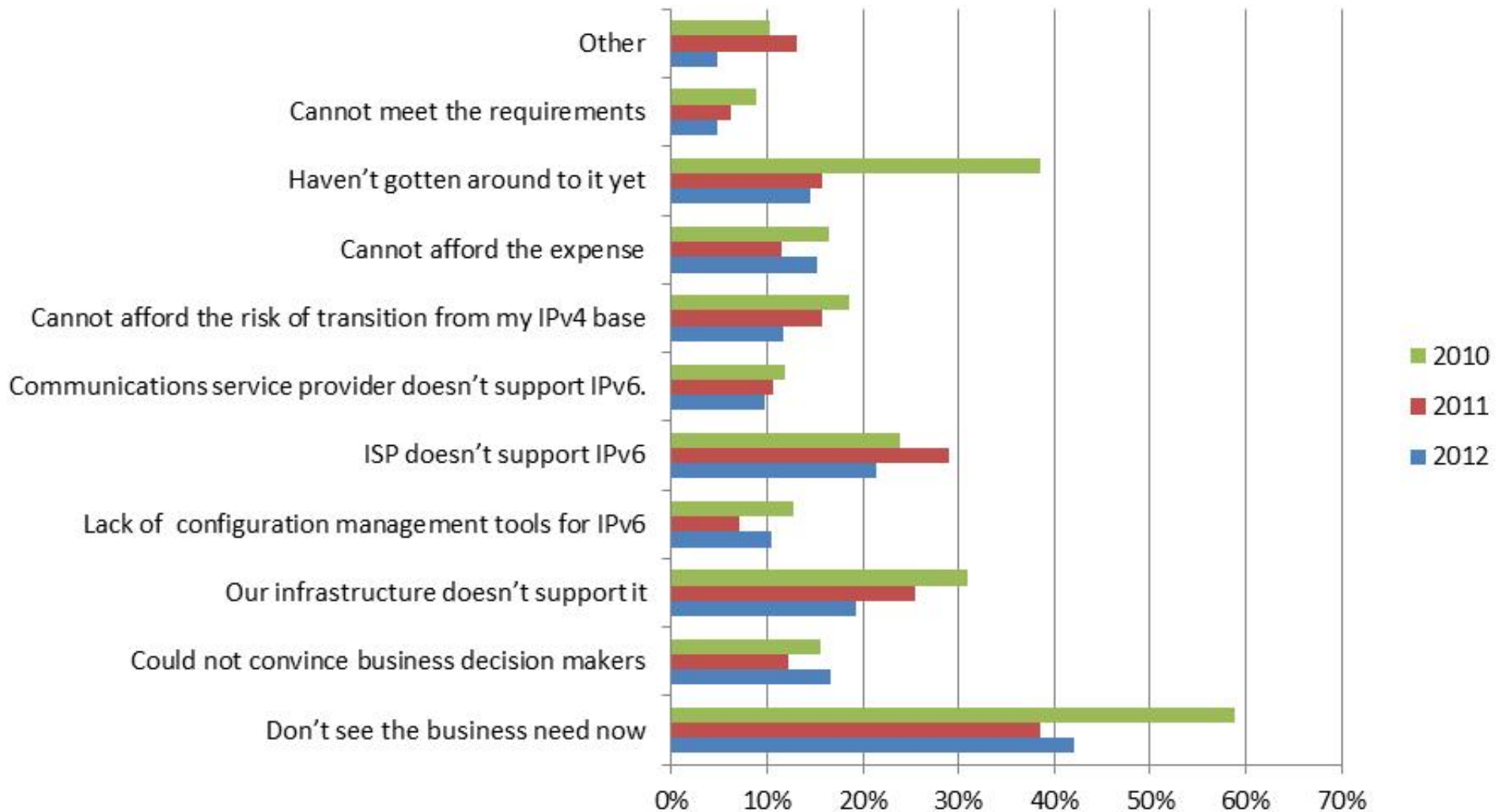
“Yes”

For more information: maarten@gnksconsult.com



Background slides

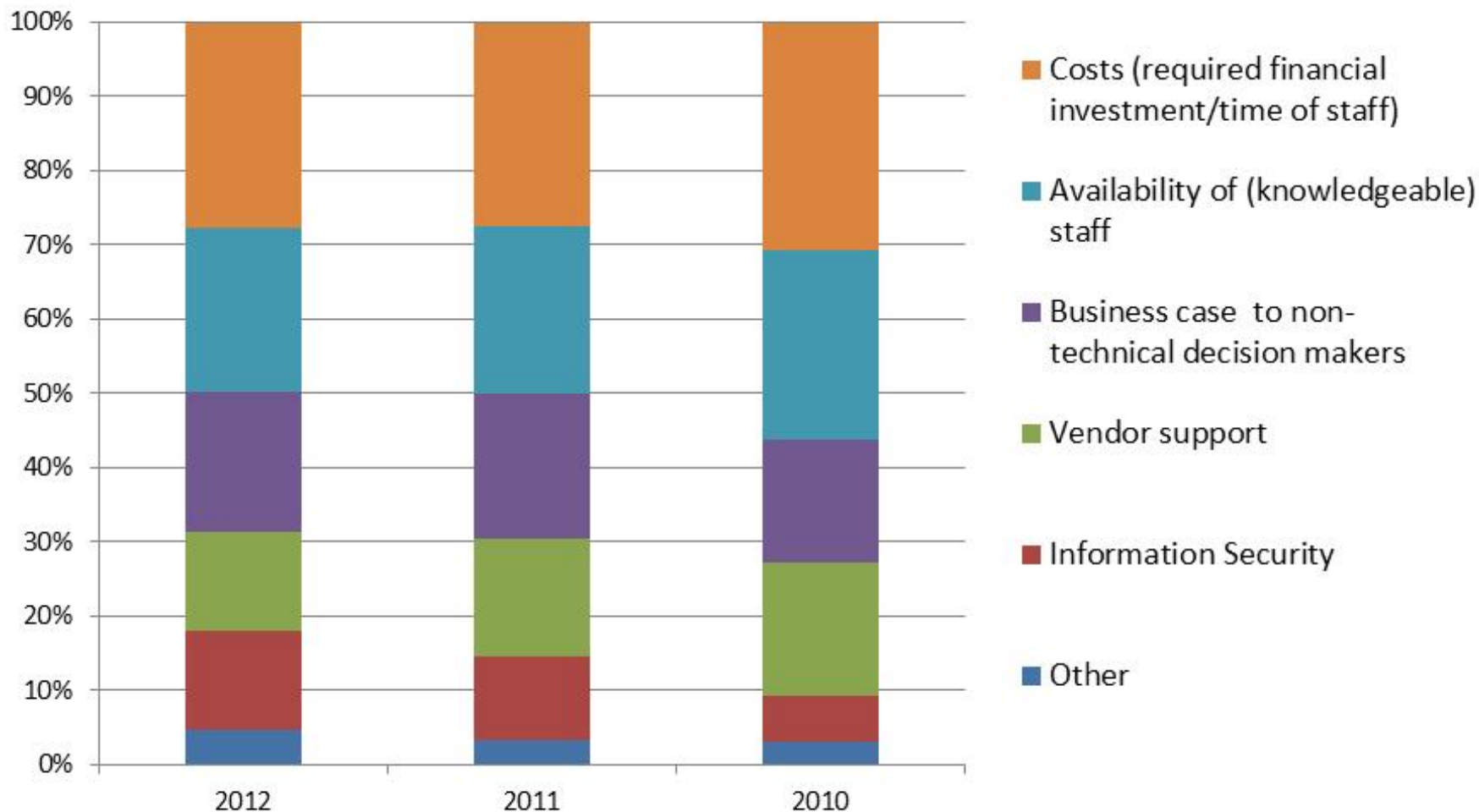
Q12 - Why doesn't your organization consider having an IPv6 allocation/assignment?



n=145

source: GNKS 2012

Q13 - What you expect to be the biggest hurdle(s) to your organization if you were to deploy IPv6?

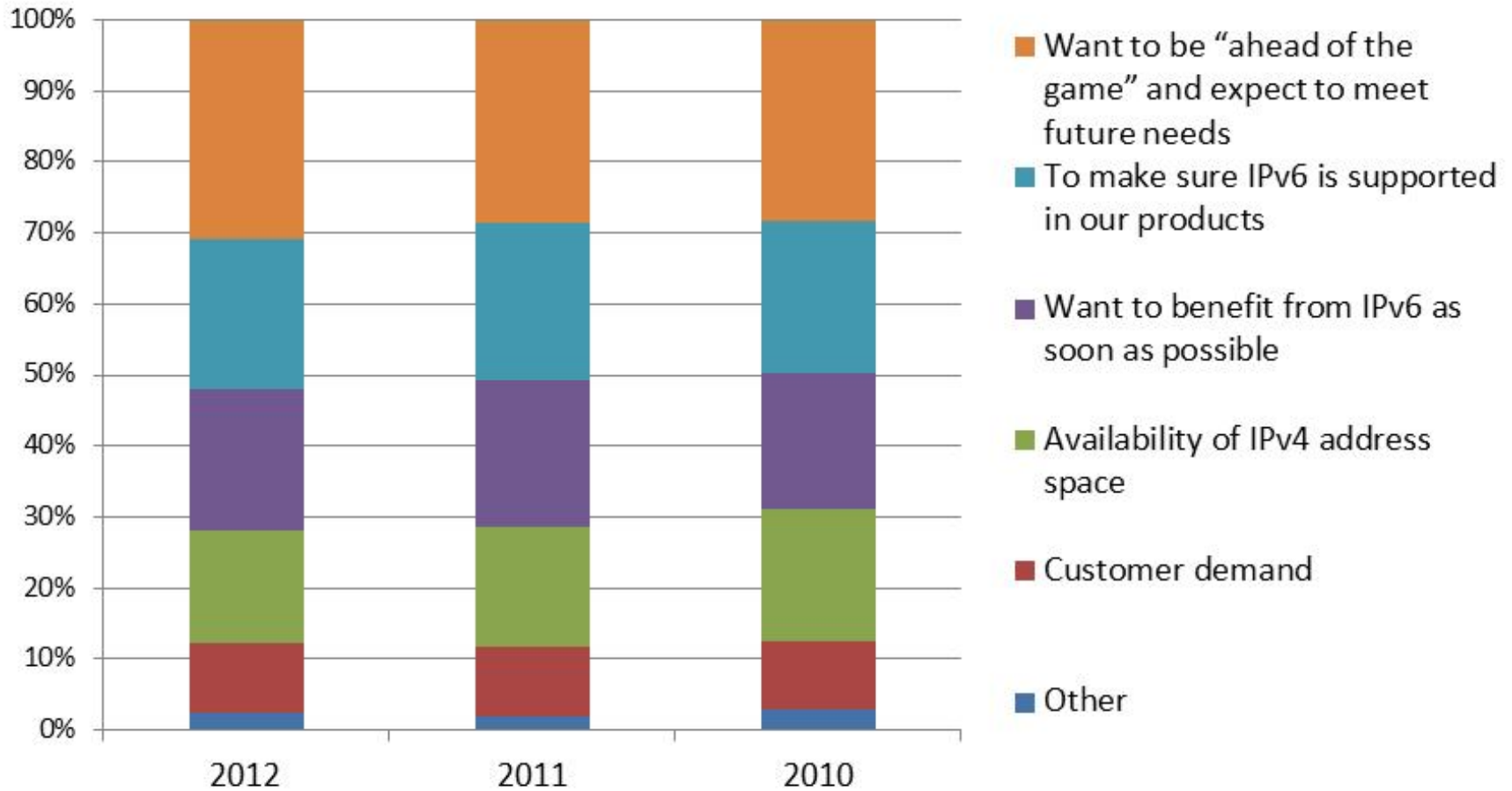


n=144

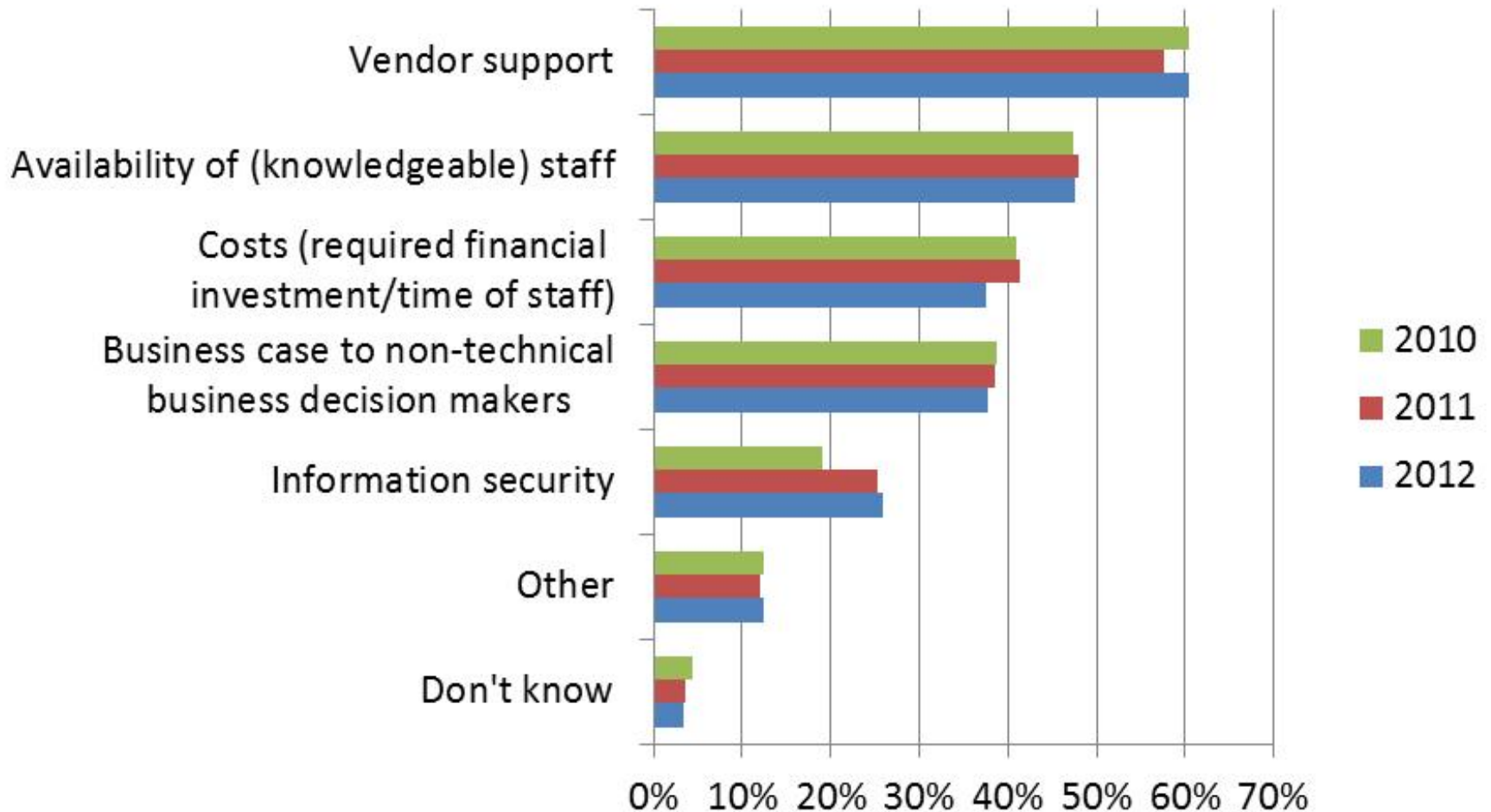
source: GNKS 2012

Please note these are responses from the 10% indicated to not consider having an IPv6 allocation.

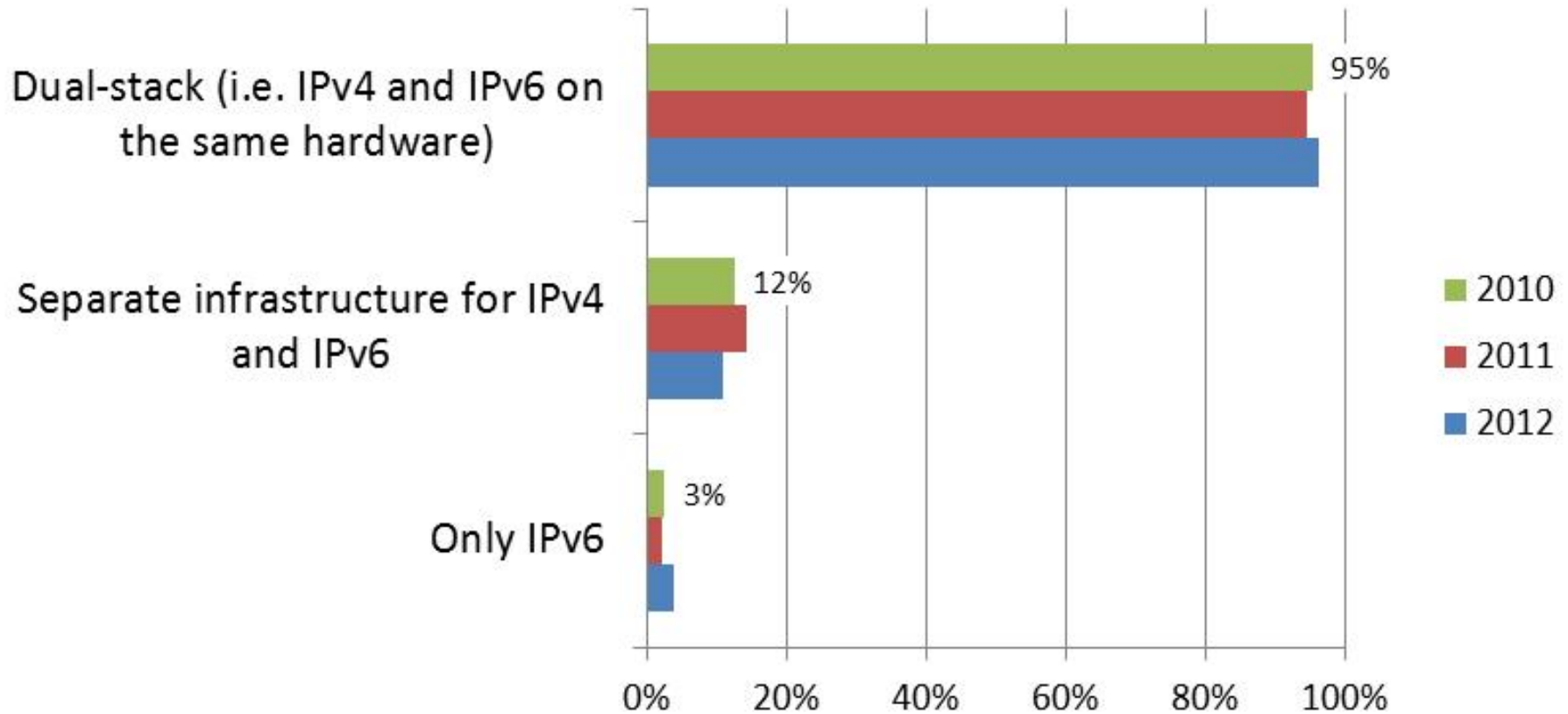
Q14 - What motivated your organization to consider having an IPv6 allocation/assignment?



Q17 - What are likely to be the biggest hurdle(s) when deploying IPv6?



Q19 - your organization's IPv6 setup



Q20 - nature of your organization's IPv6 production services

