



# IPv6 Deployment Survey

Summary of the results from the global Regional Internet Registry (RIR) community during June 2013, and compared with those from earlier years prepared for the RIPE 67 meeting in Athens

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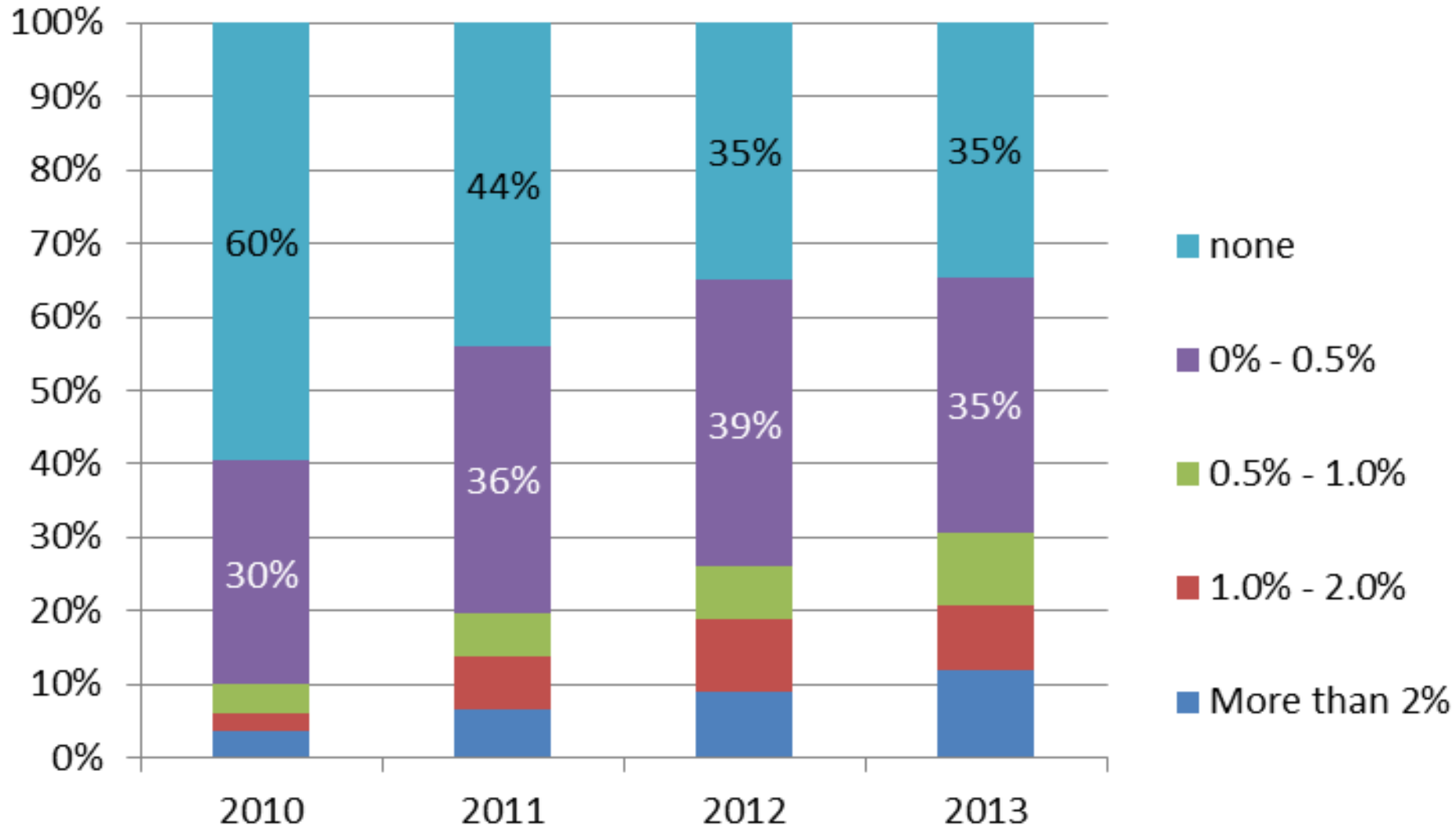


An initiative funded by the European Commission (2012-2013),  
<http://www.ipv6observatory.eu>, and supported by the NRO,  
<http://www.nro.net/ipv6>

# Global IPv6 Deployment Monitoring Survey

- Aim to establish comprehensive view of present IPv6 penetration and future IPv6 deployment plans by surveying Internet providers and users in the RIR communities around the world
- Process
  - Prepared and carried out by GNKS in close collaboration with 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 guaranteed
- History
  - ARIN carried out such a survey with its members in March 2008, a starting point for the current survey
  - RIPE NCC and APNIC carried out this same survey in 2009
  - In 2010, 2011, 2012 and 2013, all RIRs participated to the survey making it truly global

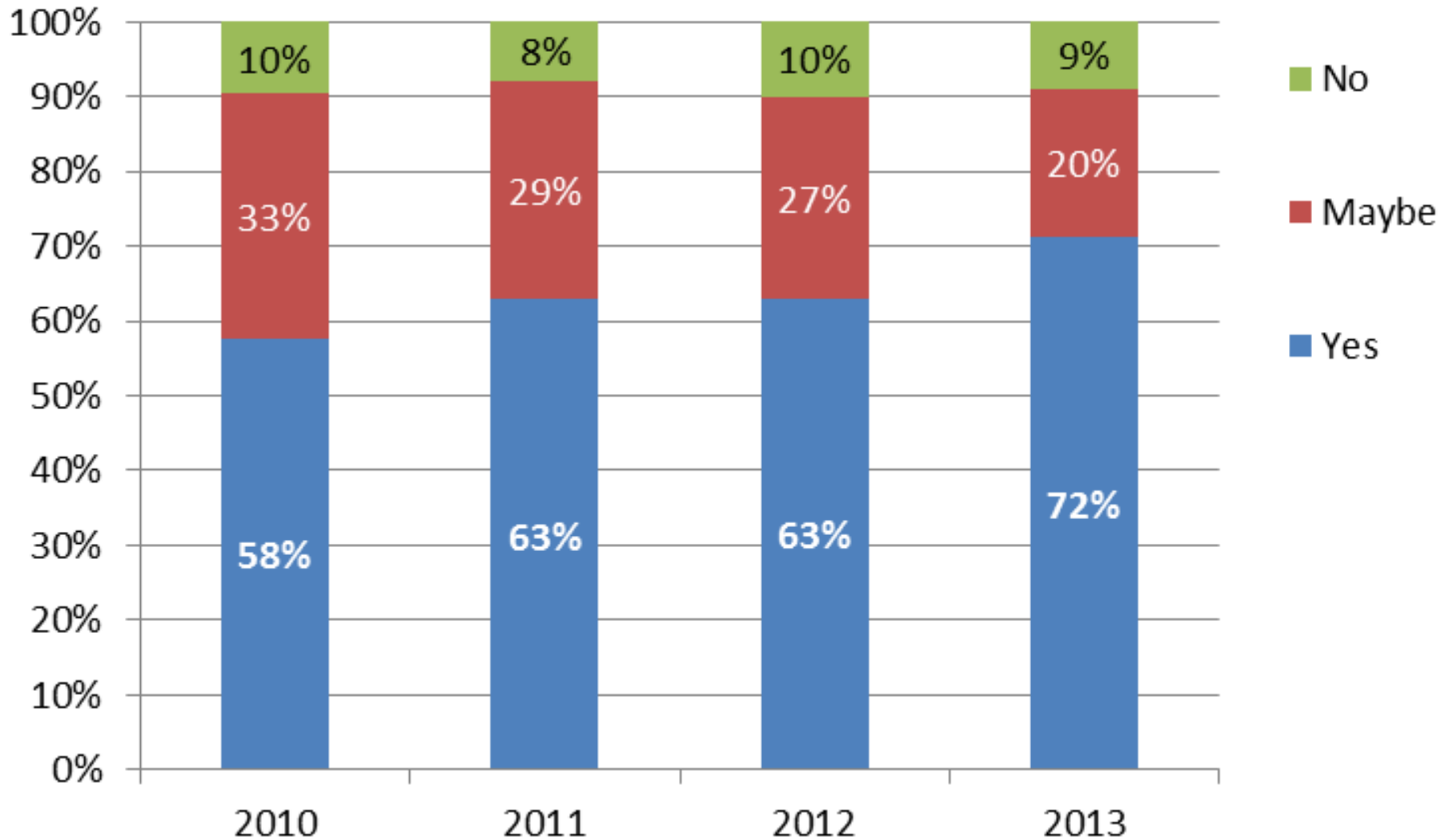
# What percentage of your customer base uses IPv6 connectivity?



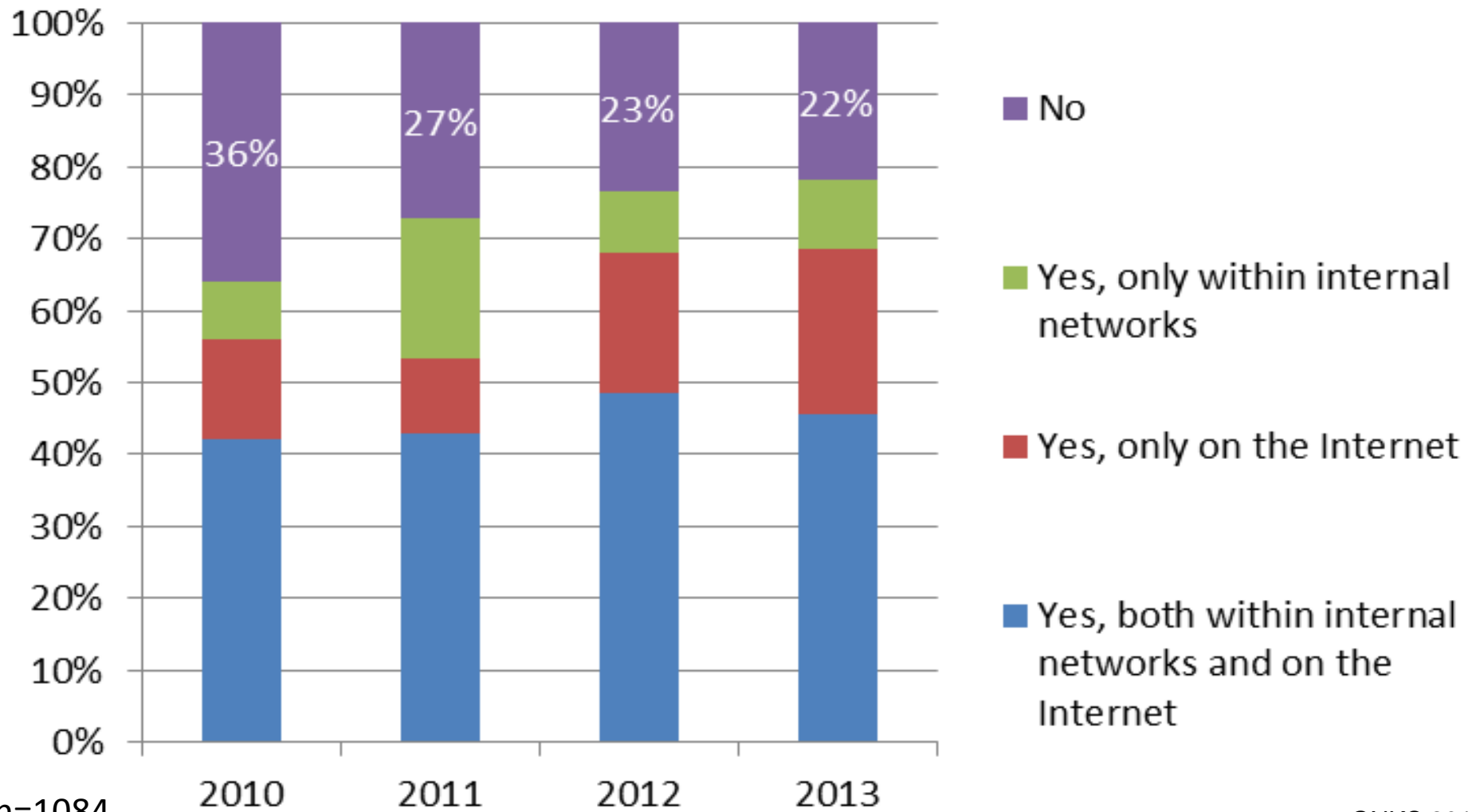
N=639 ISPs only

source: GNKS 2013

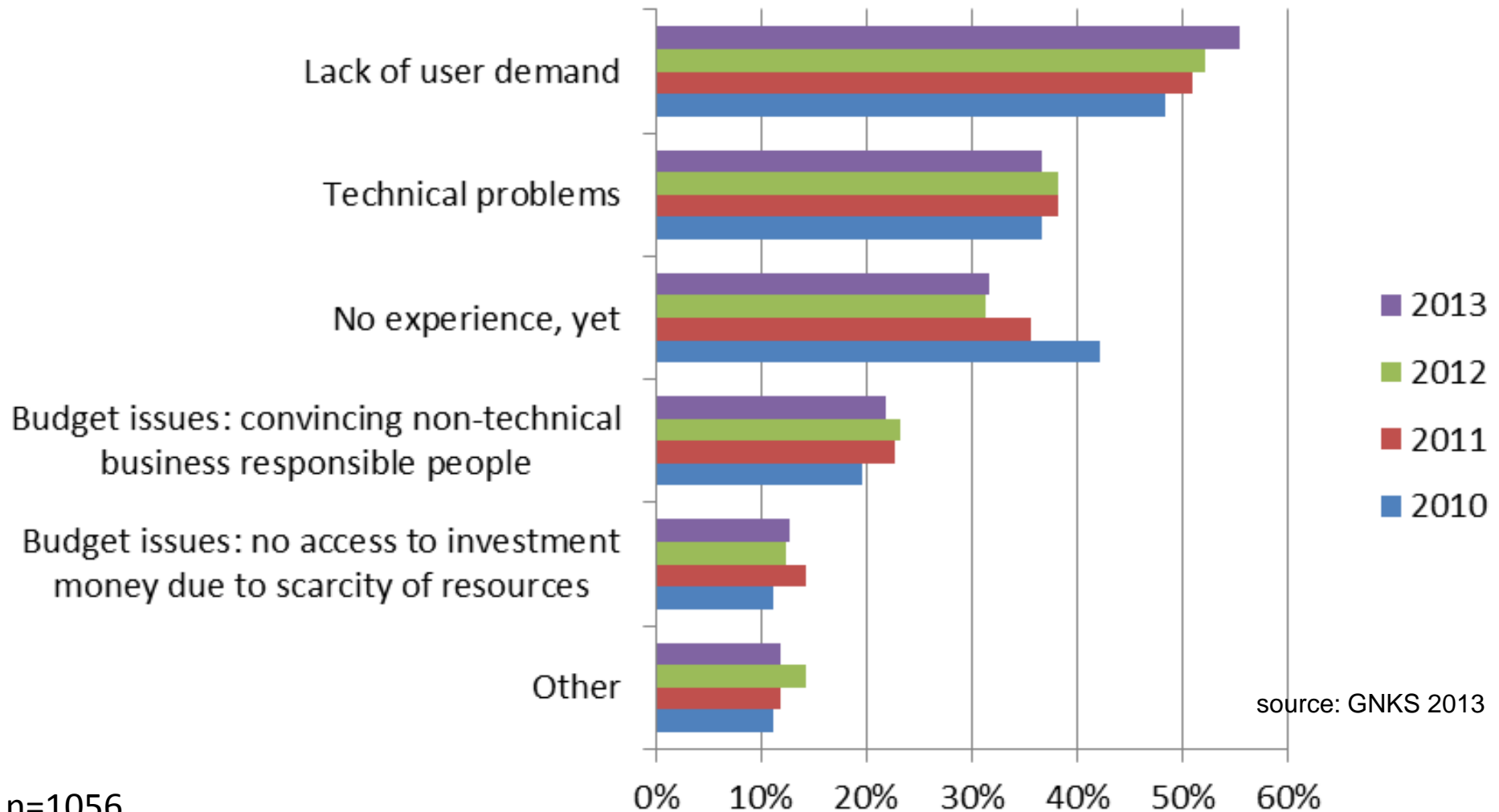
# Do you consider promoting IPv6 uptake to your customers?



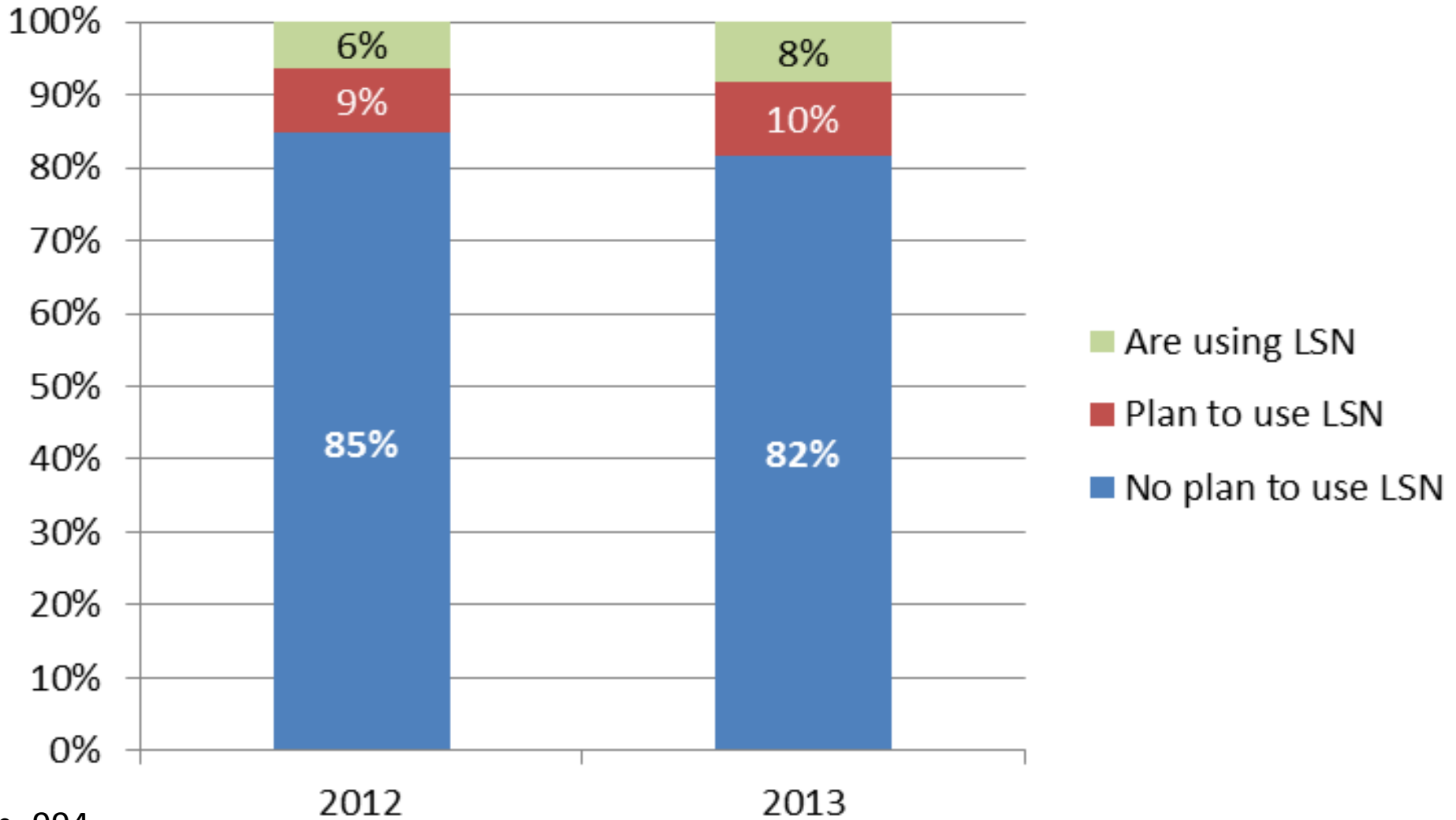
# Does your organization have an IPv6 presence ?



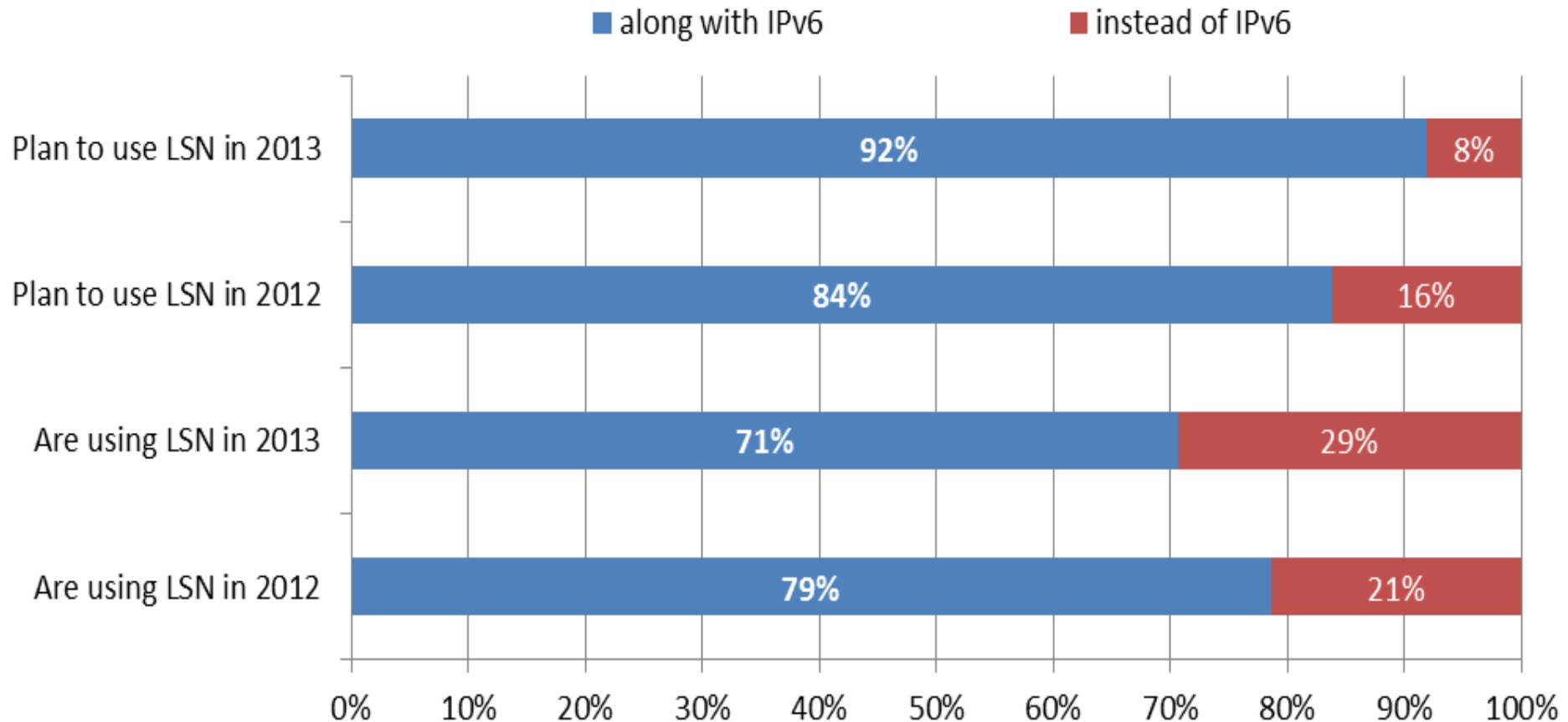
# What are the biggest problems with IPv6 in production?



# Do you use Large Scale NAT (LSN) aka CGN (Carrier Grade NAT)?



# Do you use/plan to use Large Scale NAT (LSN) aka CGN (Carrier Grade NAT) along with or instead of IPv6?

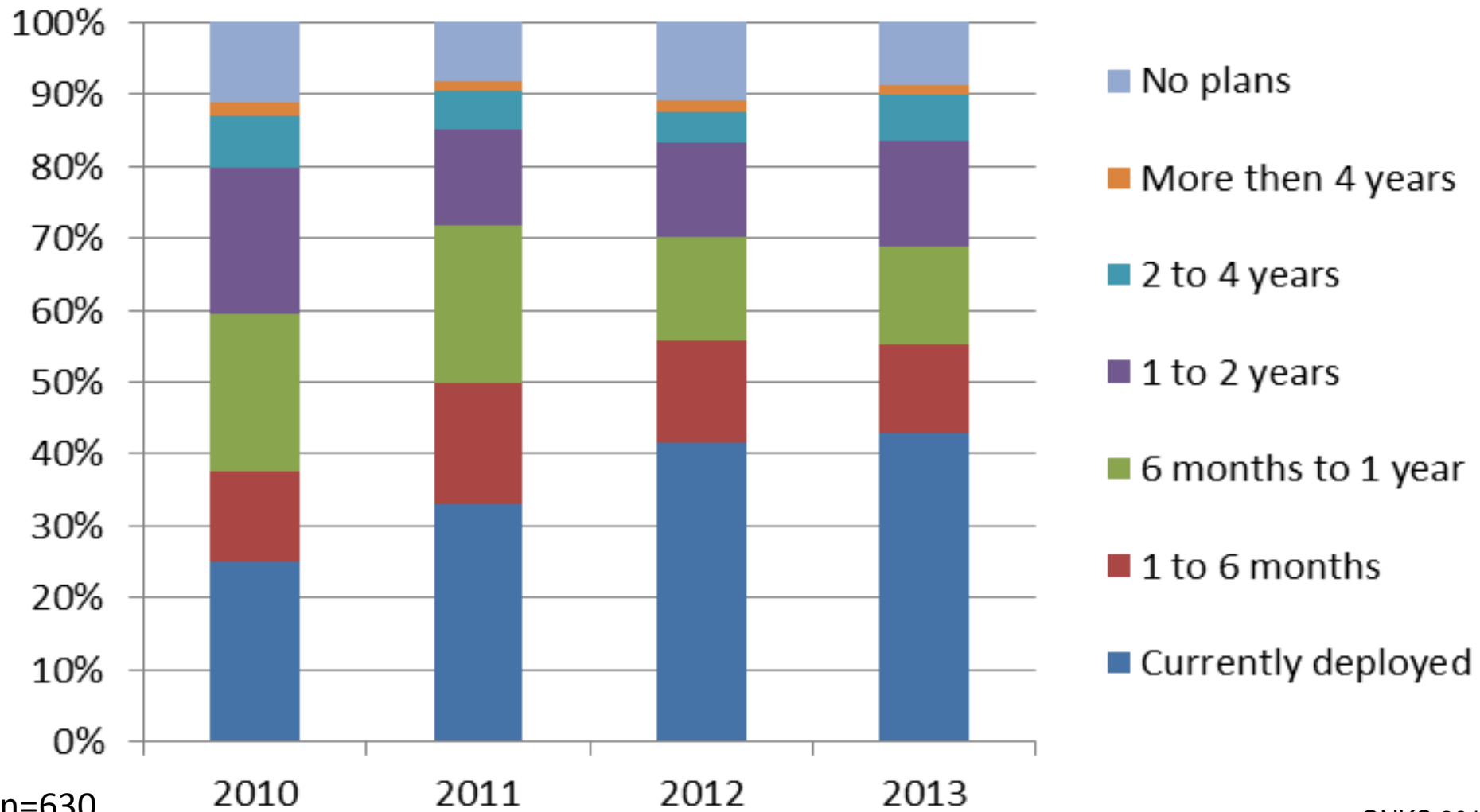


n=182 – those that indicated they plan to use, or use LSN

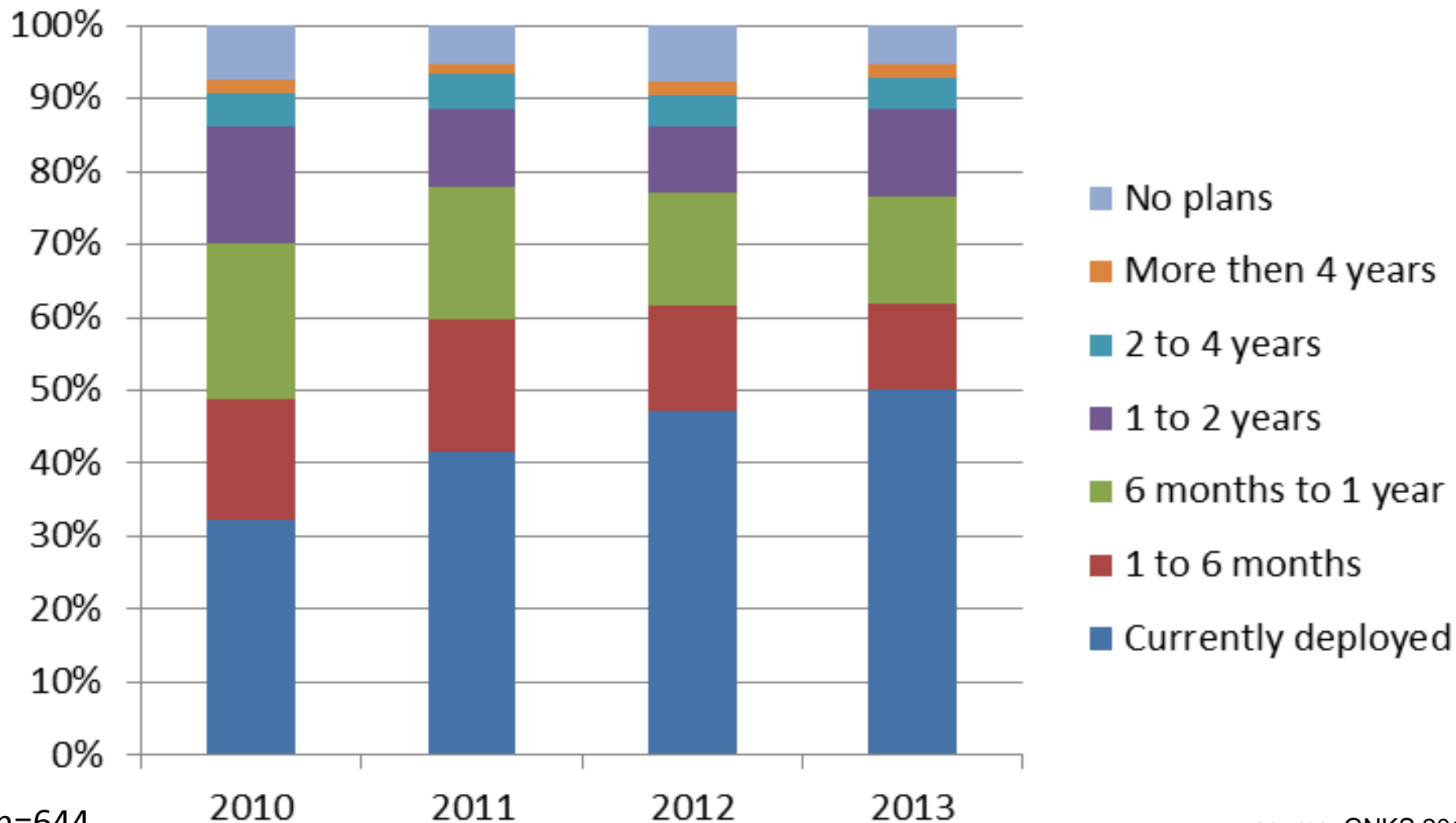
source: GNKS 2013



# IPv6 implementation plans for ISPs offering services to consumers



# IPv6 implementation plans for ISPs offering services to business customers



# High level conclusion

- Preparedness for IPv6 deployment continues to increase
  - Generally at high levels
    - Almost half of ISP respondents offer IPv6 to their customers
    - More than 80% will do so within 2 years
- More ISPs are now experiencing more significant usage by their clients
  - 31% experience more than 0.5% usage
- Carrier Grade NAT is generally not used as a solution to replace IPv6
  - 18% of respondents use, or plan to use CGN but more than 70% of those use it along with IPv6 (not instead of)

# High level conclusion

- *While a small minority is still banking on their stock of IPv4 addresses for the years to come, most recognize the importance of transitioning to IPv6.*
- *As many are ready with initial preparations and are now waiting for a large scale IPv6 deployment and implementation, large scale deployment pilots would be a prudent way forward.*



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# We thank all respondents for their contributions !

When asked if they'd be interested in participating in this survey again in a years' time 93% of respondents said

**“Yes”**

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Full presentation available from  
“IPv6 trends and perspectives”  
workshop at:

<http://www.ipv6observatory.eu/the-study/workshop-trends-and-perspectives/>



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