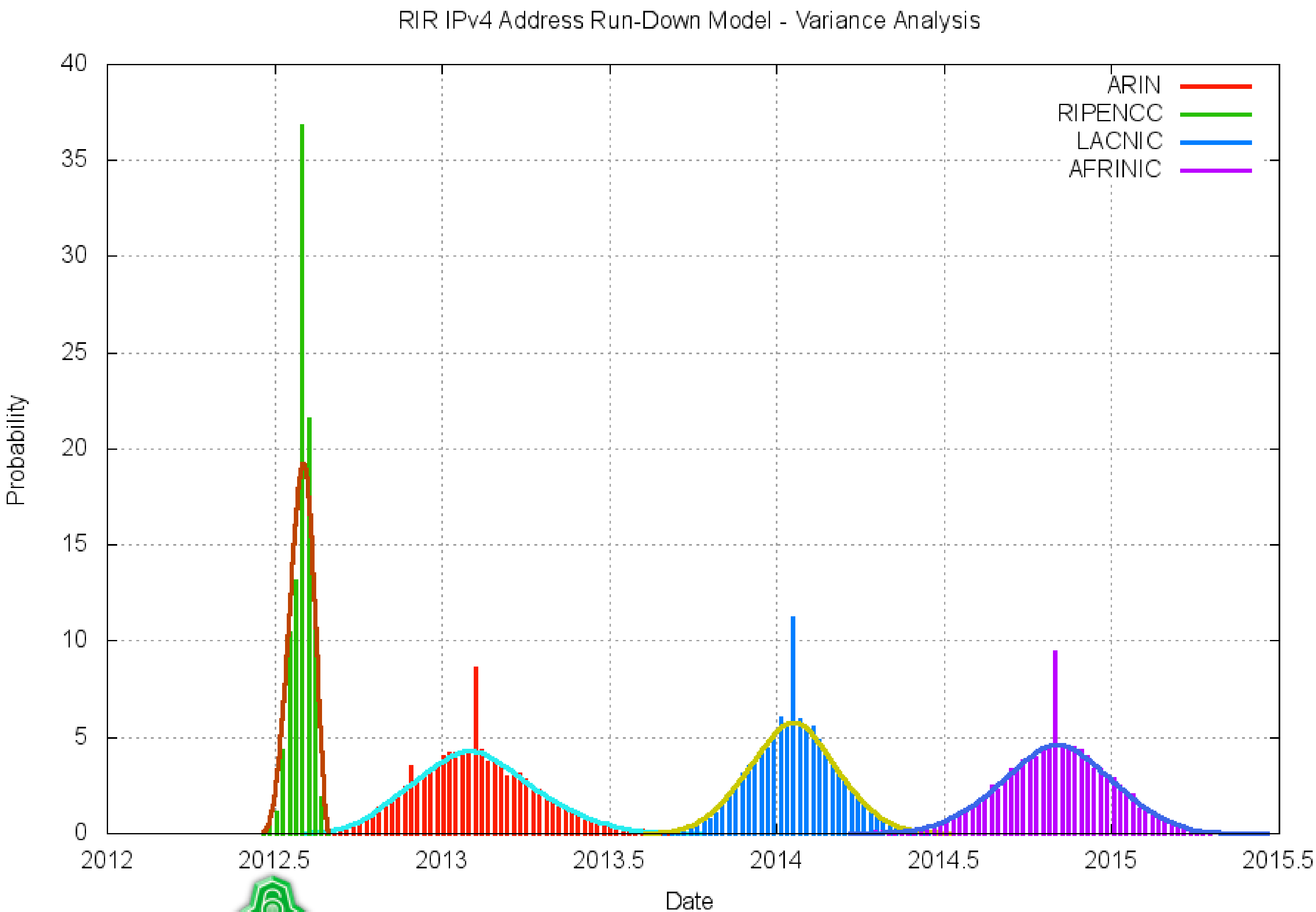
The Future of the IPv6 Enterprise

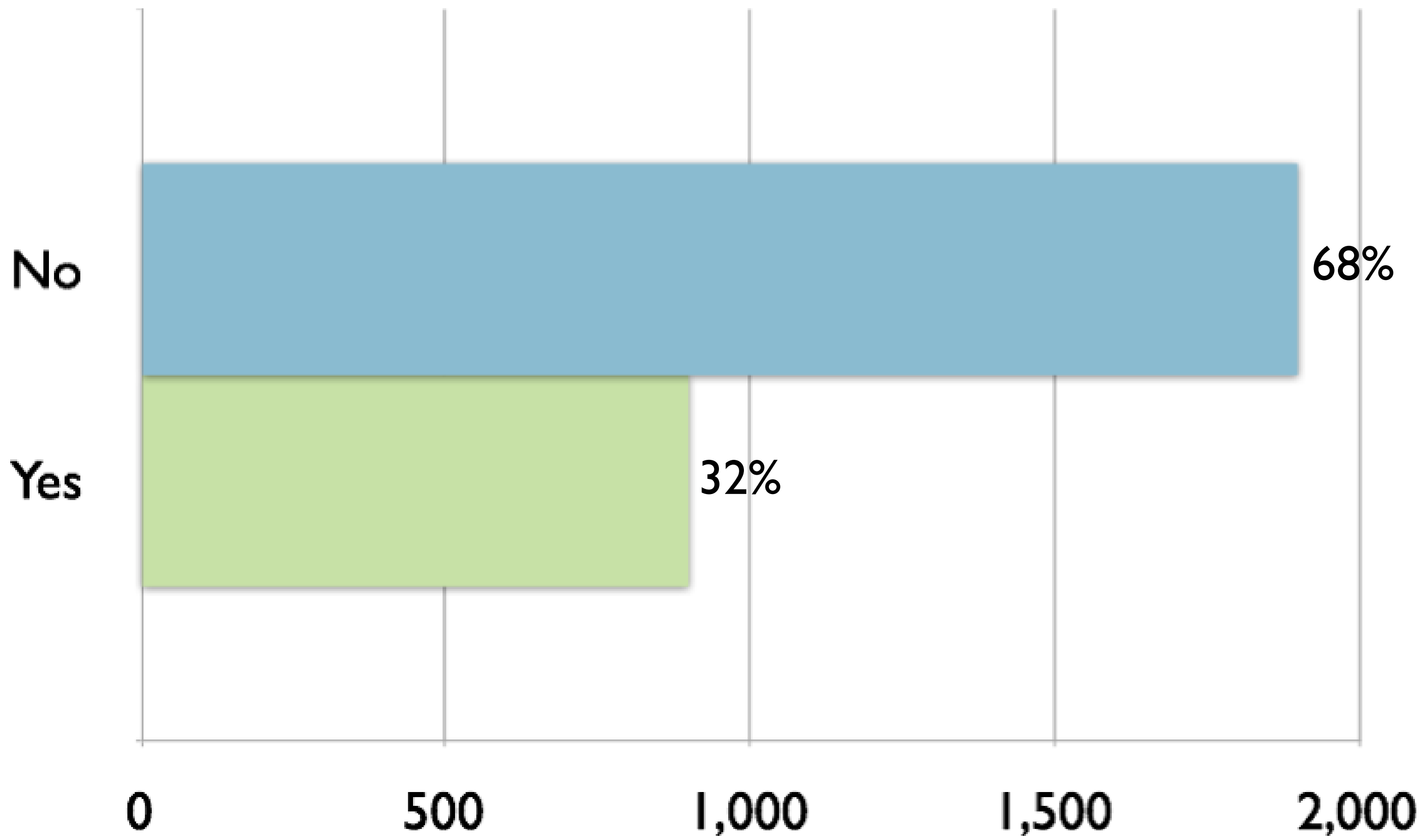
Tom Coffeen, IPv6 Evangelist

IPv6 in the Enterprise

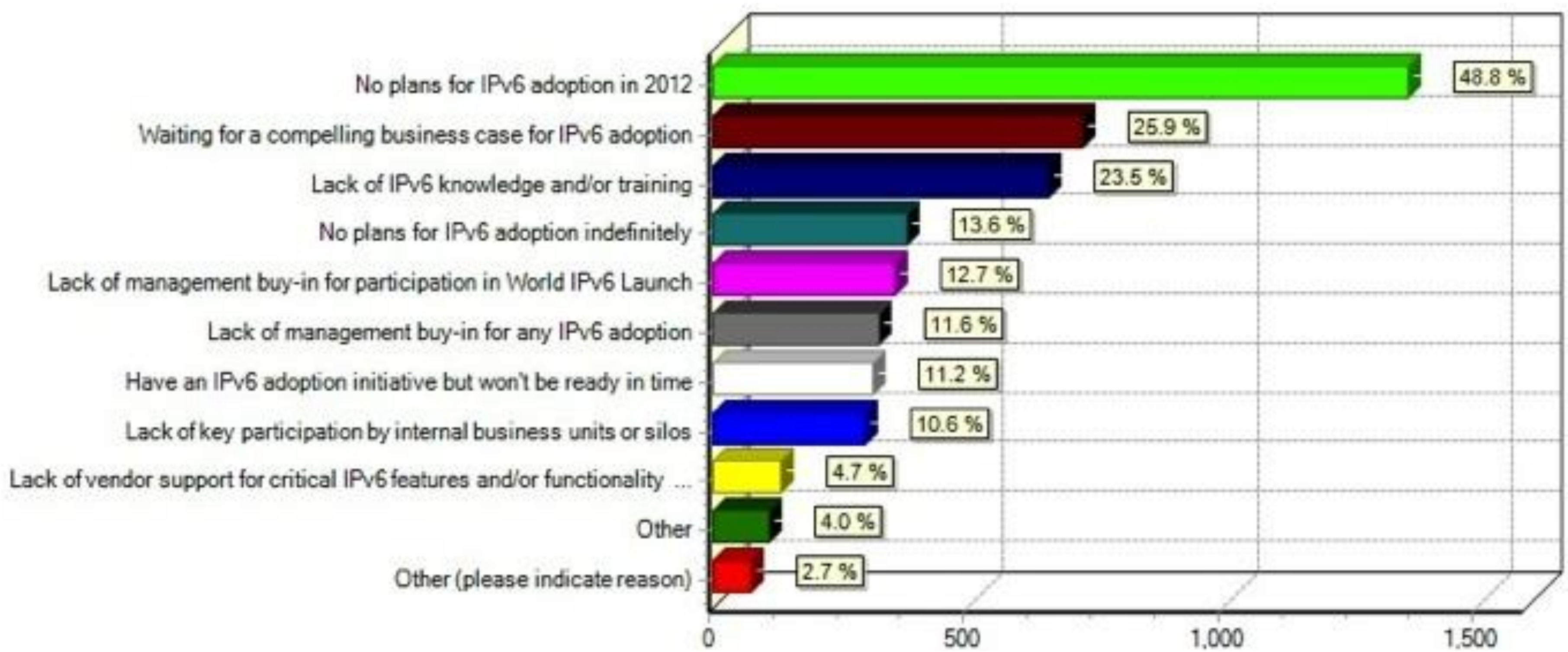


What is the state of IPv6 adoption in the enterprise?

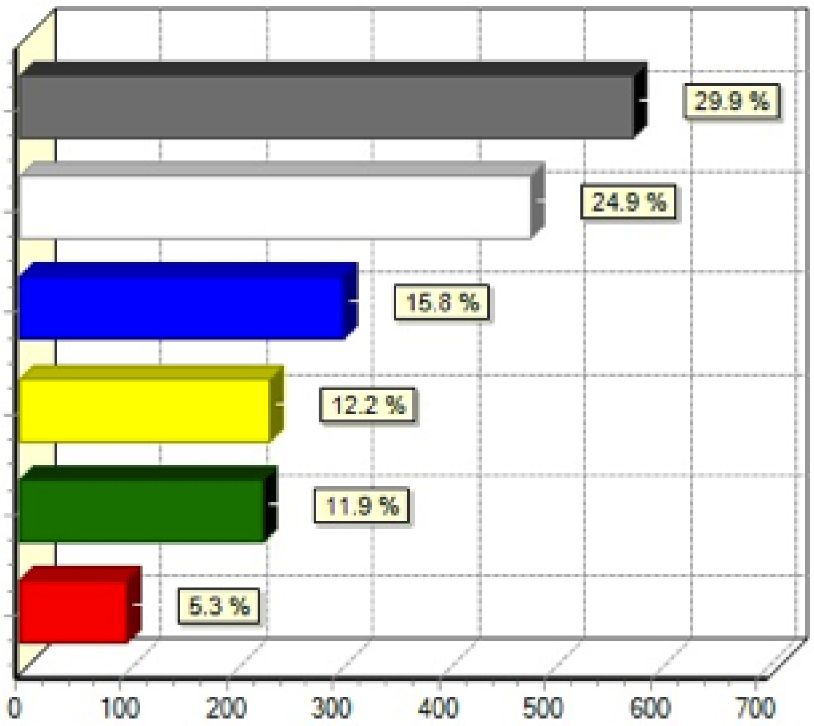
Are you planning on participating in World IPv6 Launch?



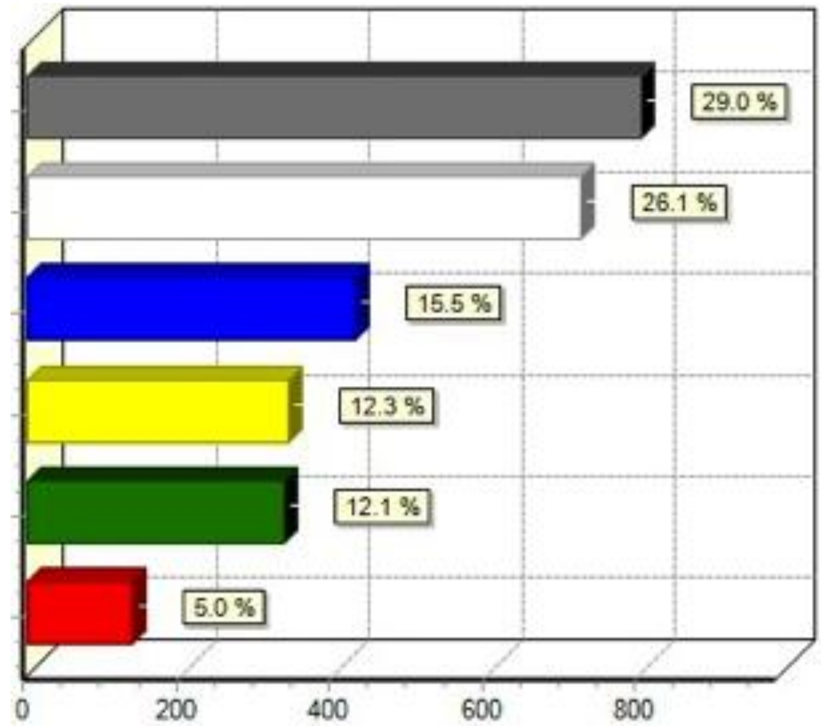
If your organization is ***not*** participating in World IPv6 Launch, please select the reasons.



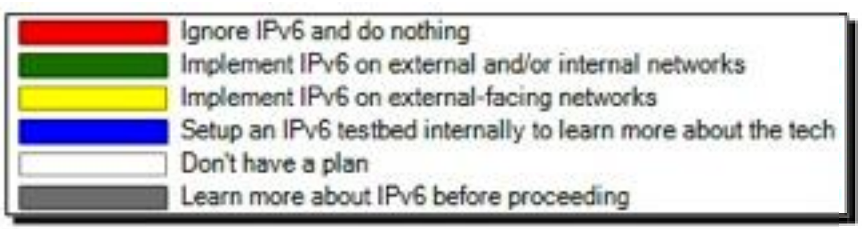
What is your organization's current plan for dealing with IPv6?



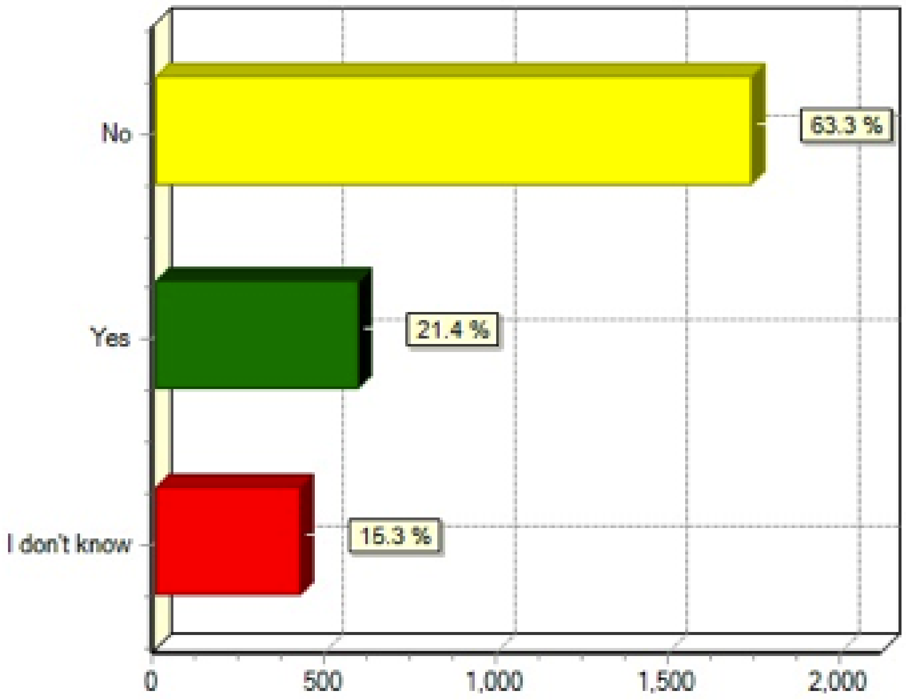
2011



2012

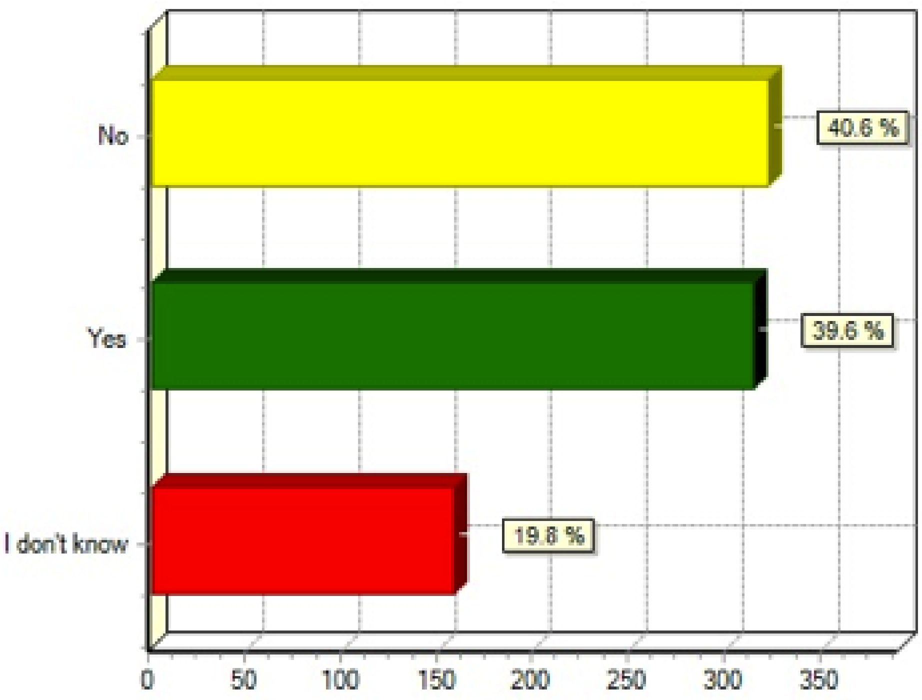


Has your organization dedicated resources to adopt IPv6?



2012

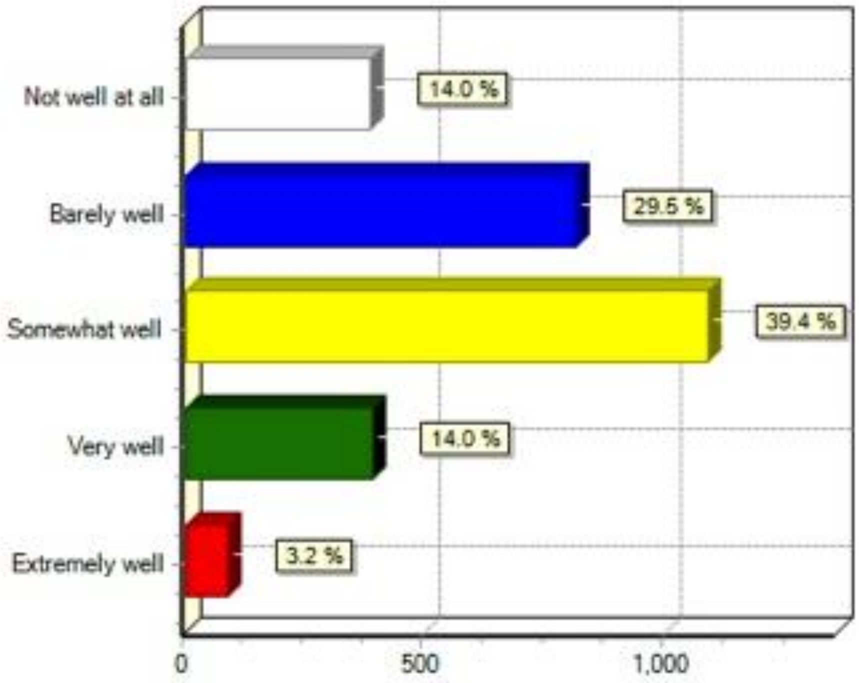
Enterprise



2012

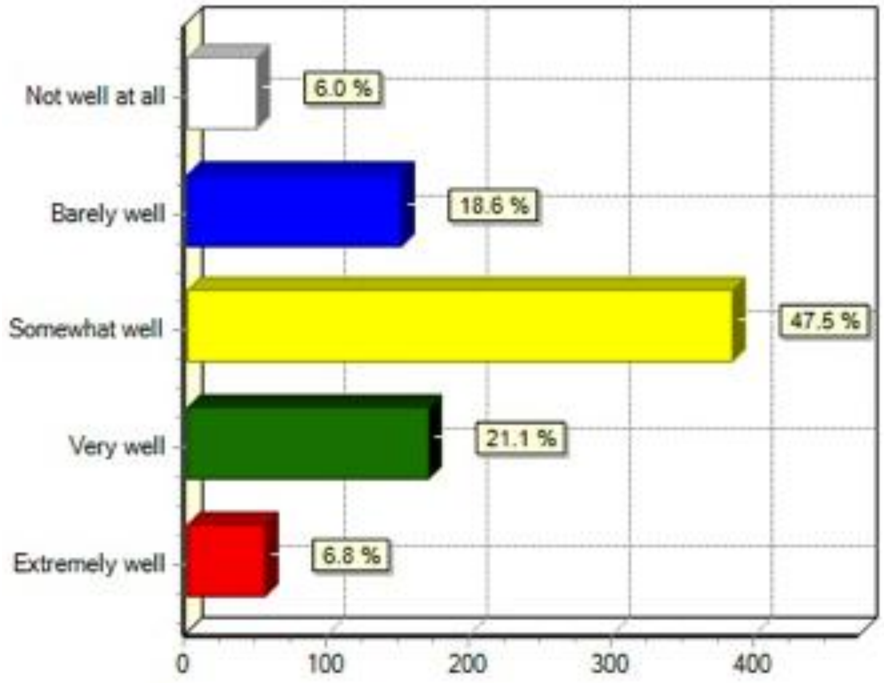
Service Provider

How well educated is your organization's IT staff on IPv6?



2012

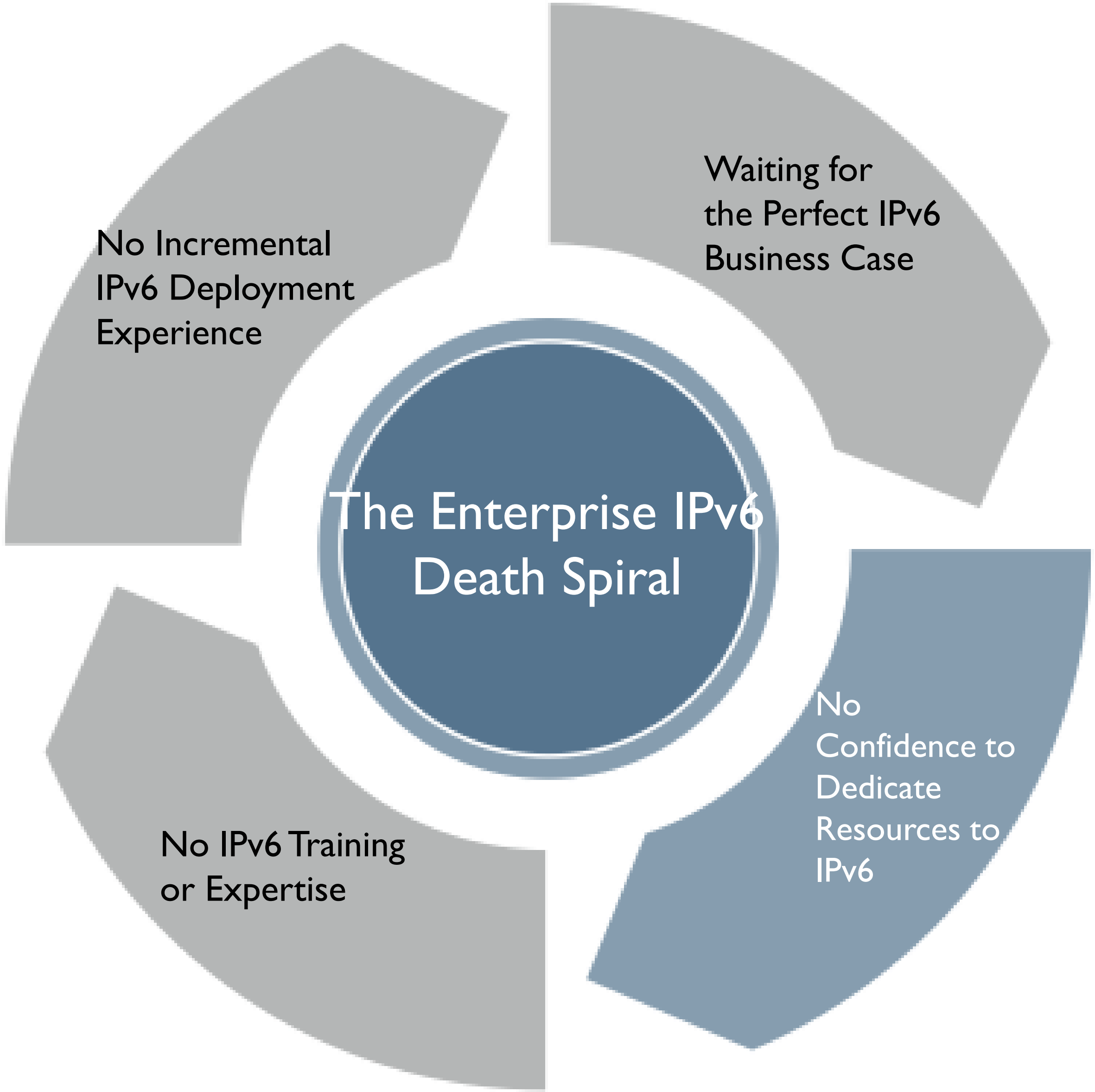
Enterprise



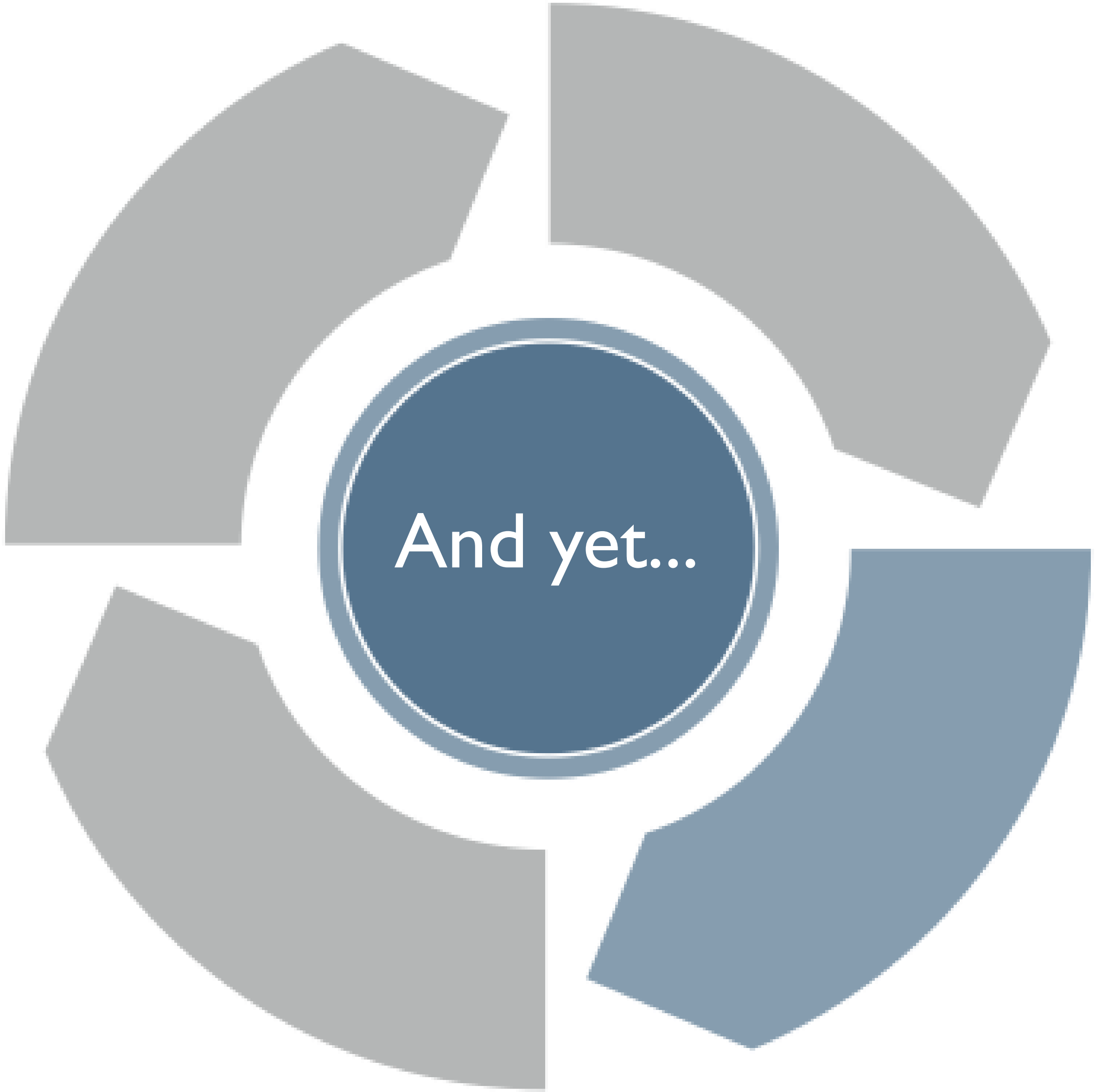
2012

Service Provider

IPv6 in the Enterprise

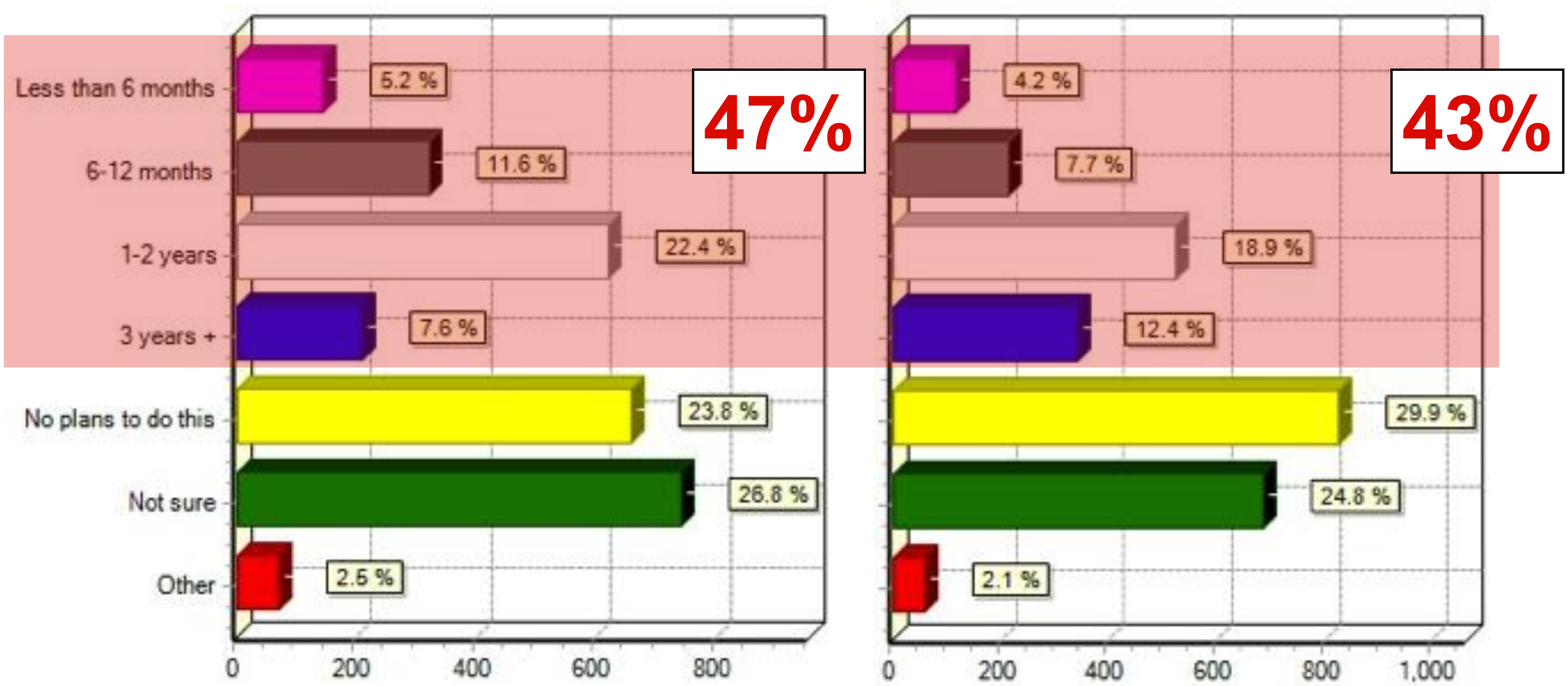


IPv6 in the Enterprise



Infoblox®

What is your time frame for enabling IPv6 on your...



...external facing websites?

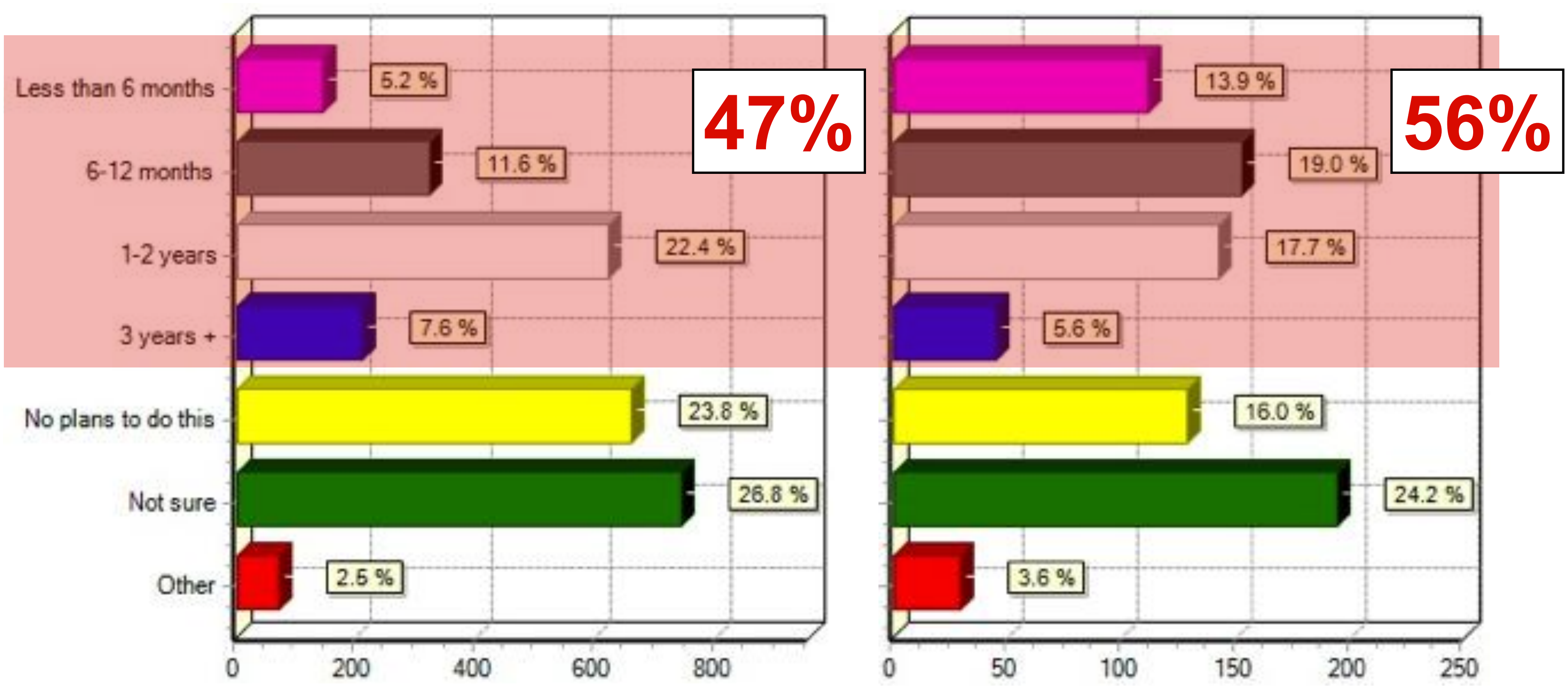
Enterprise

...internal network?

Enterprise

Infoblox

What is your time frame for enabling IPv6 on your...



...external facing websites?

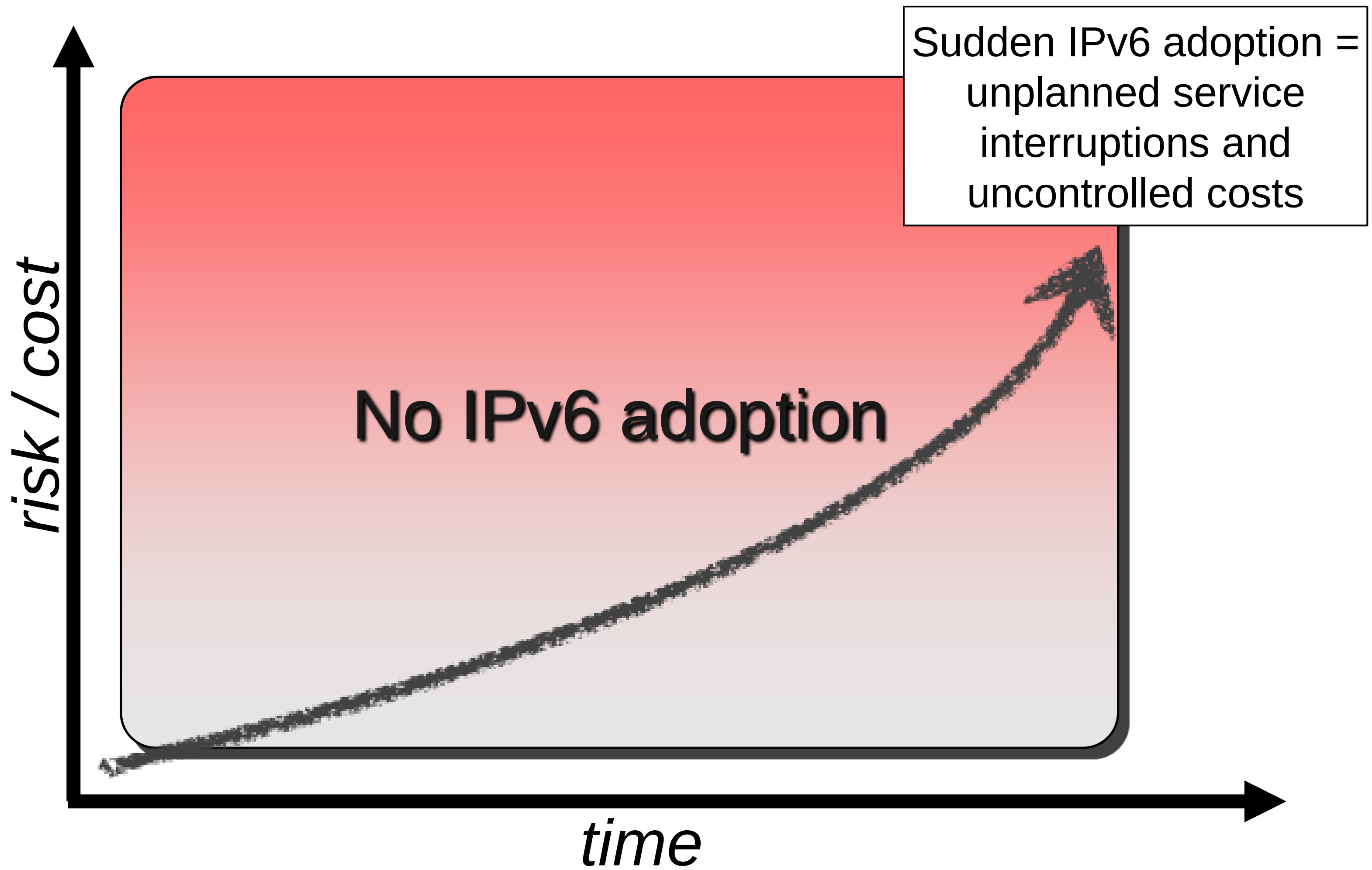
Enterprise

...external facing websites?

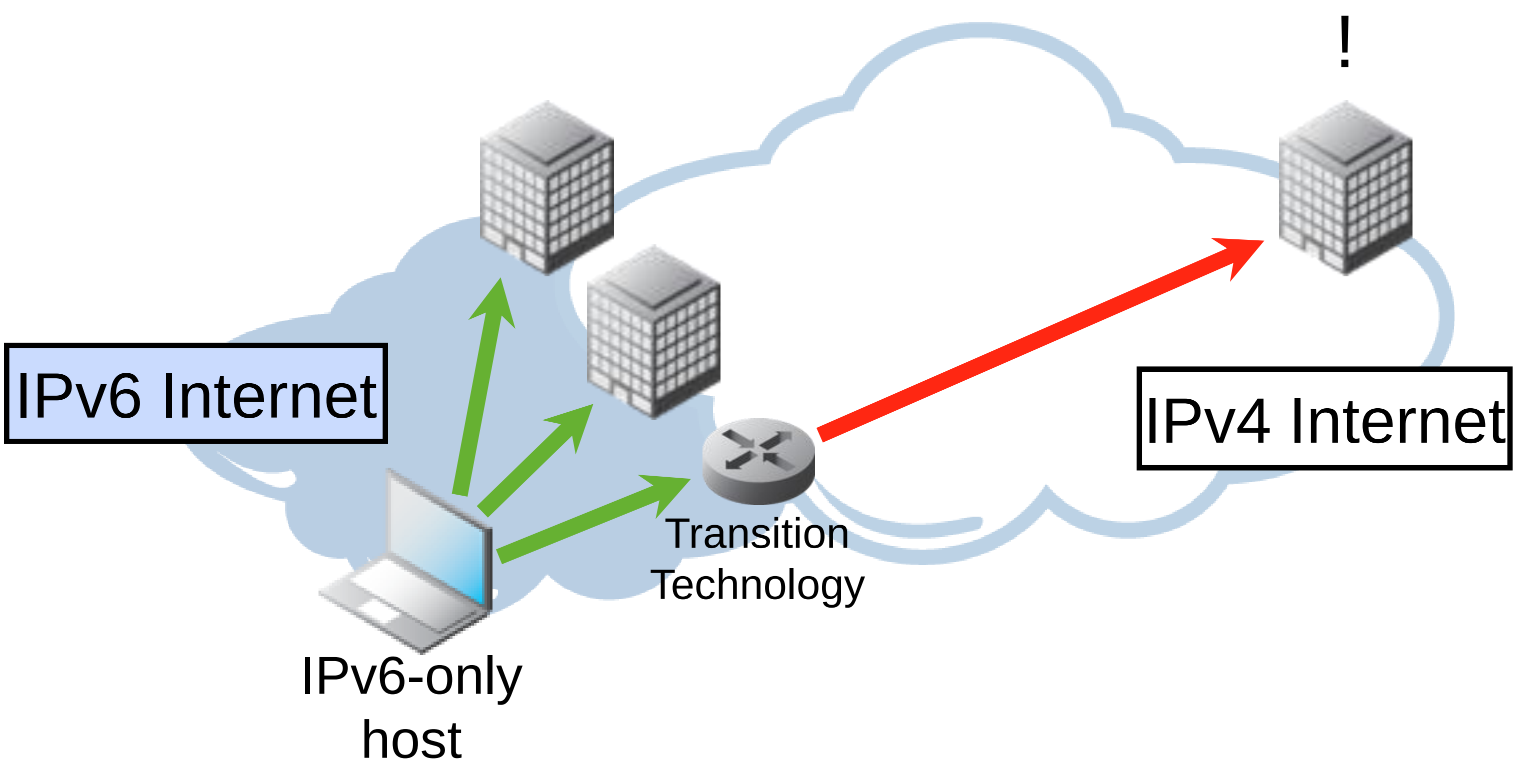
Service Provider

Why *enterprises* should care about IPv6 adoption...

The threat to business agility and business continuity



The threat to competitive advantage



Don’t blink! You’ll lose customers...

>250ms∆ = FAIL

/16 for sale!

$12 per address × 65,536 addresses = ***$786,432!***

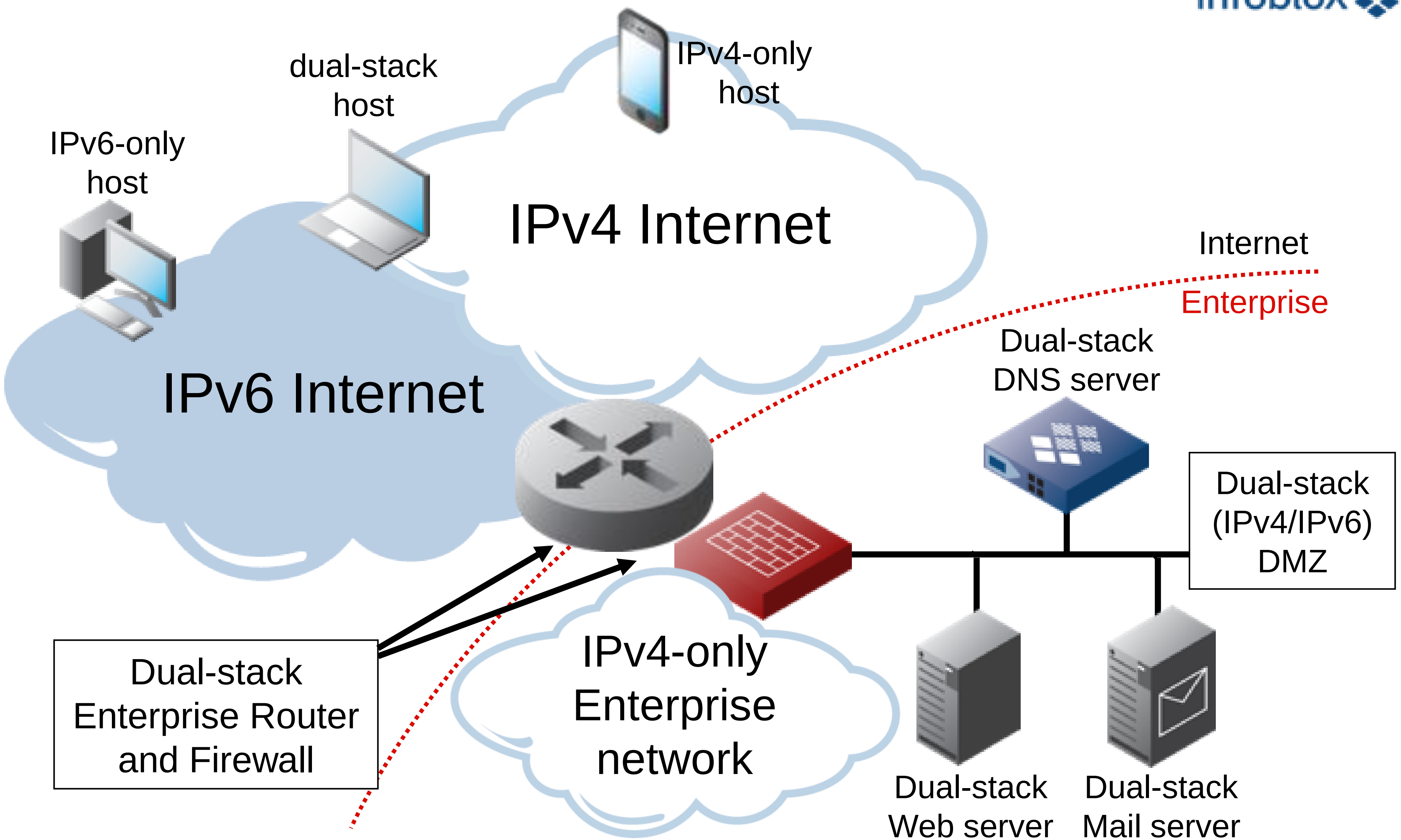
Why everyone else should care about IPv6 adoption in the enterprise...

The evolution of the Internet: enterprises will continue to play a role...

- Deprecation of NAT
- Availability of enterprise content over IPv6
- Evolution of IP address management & network configuration and change management
  - opportunity for automation and network virtualization
- Unification of IP address space
  - deprecation of private addressing
- Better adoption of the end-to-end model
- Evolution of security practice
- IPv4/IPv6 feature parity from vendors

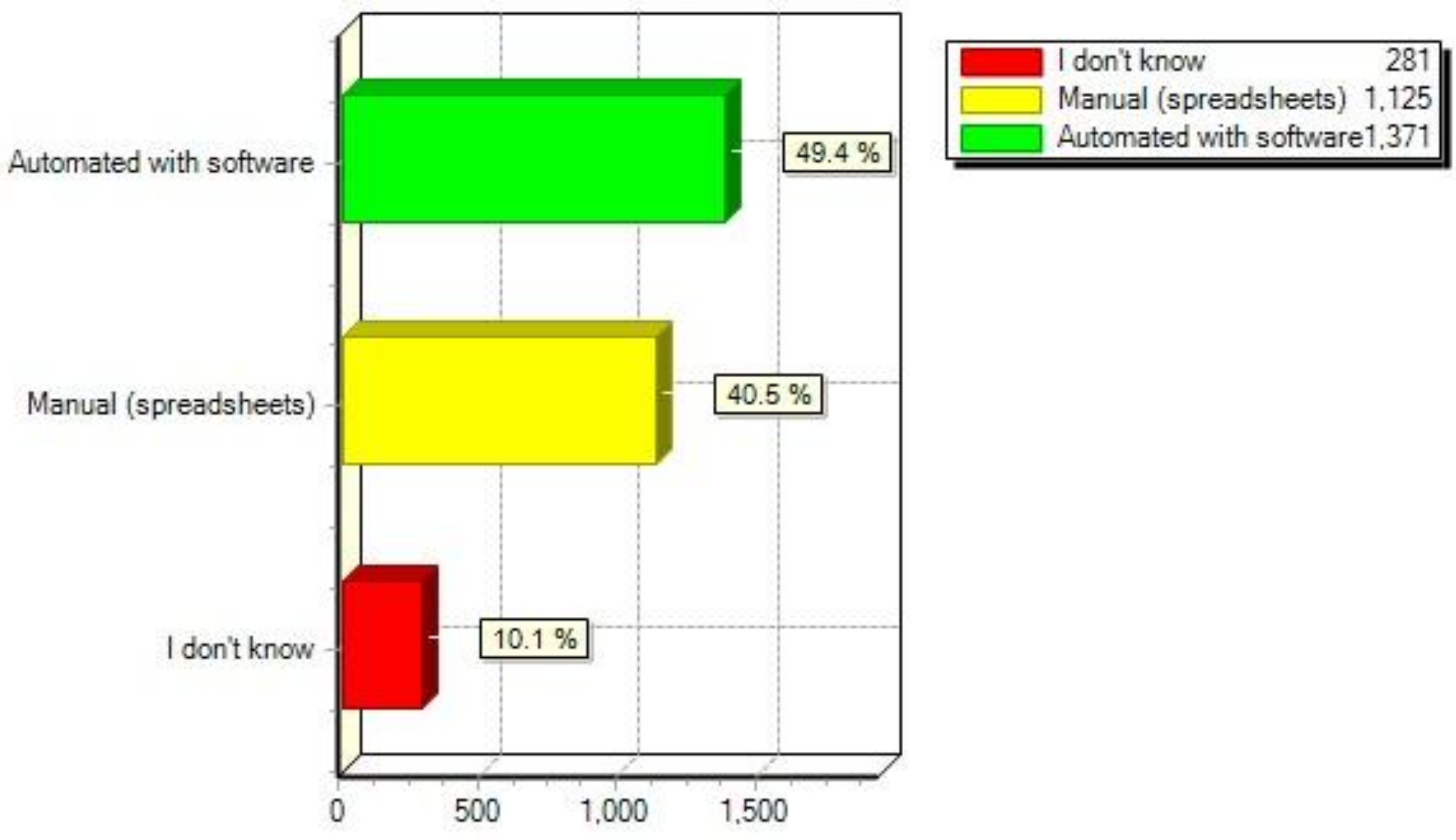
Deprecation of NAT at the enterprise edge

"They found a formula for translating network packets:
This formula for translating network packets paid.
Till in the end they could not change the tragic habits
This formula for translating network packets made."
-With apologies to Robert Graves

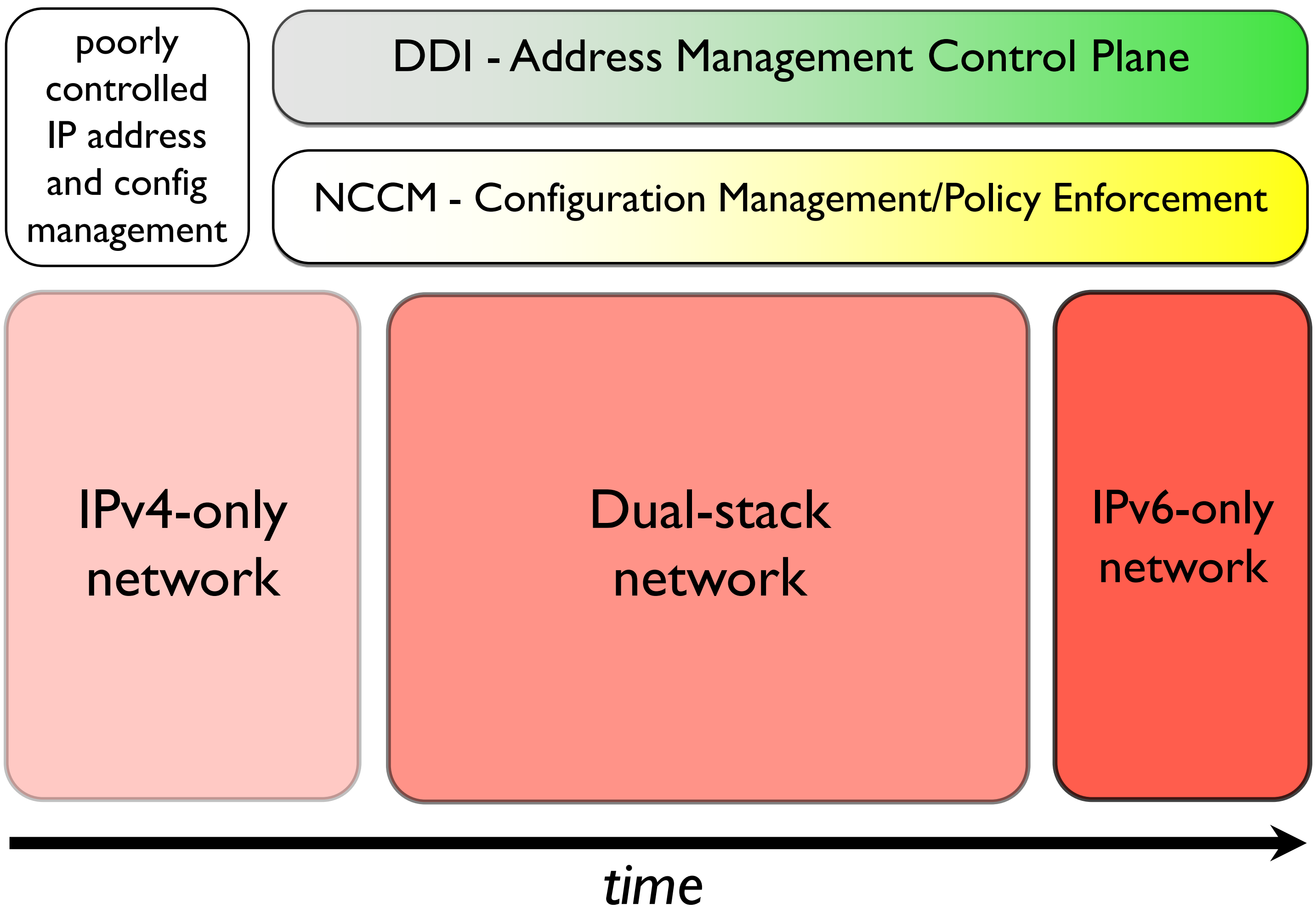


Availability of enterprise content over IPv6

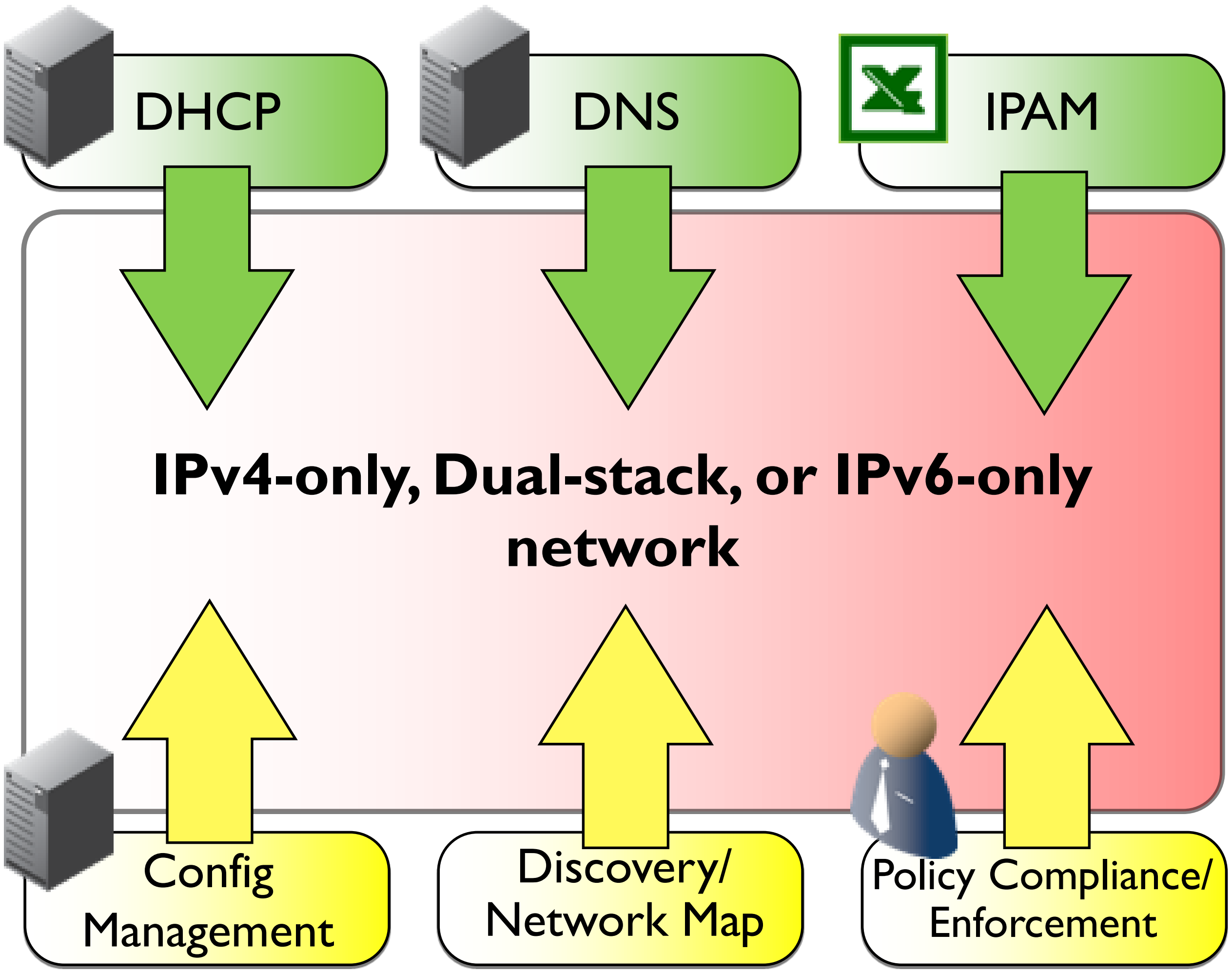
How does your organization currently track its IP addresses?



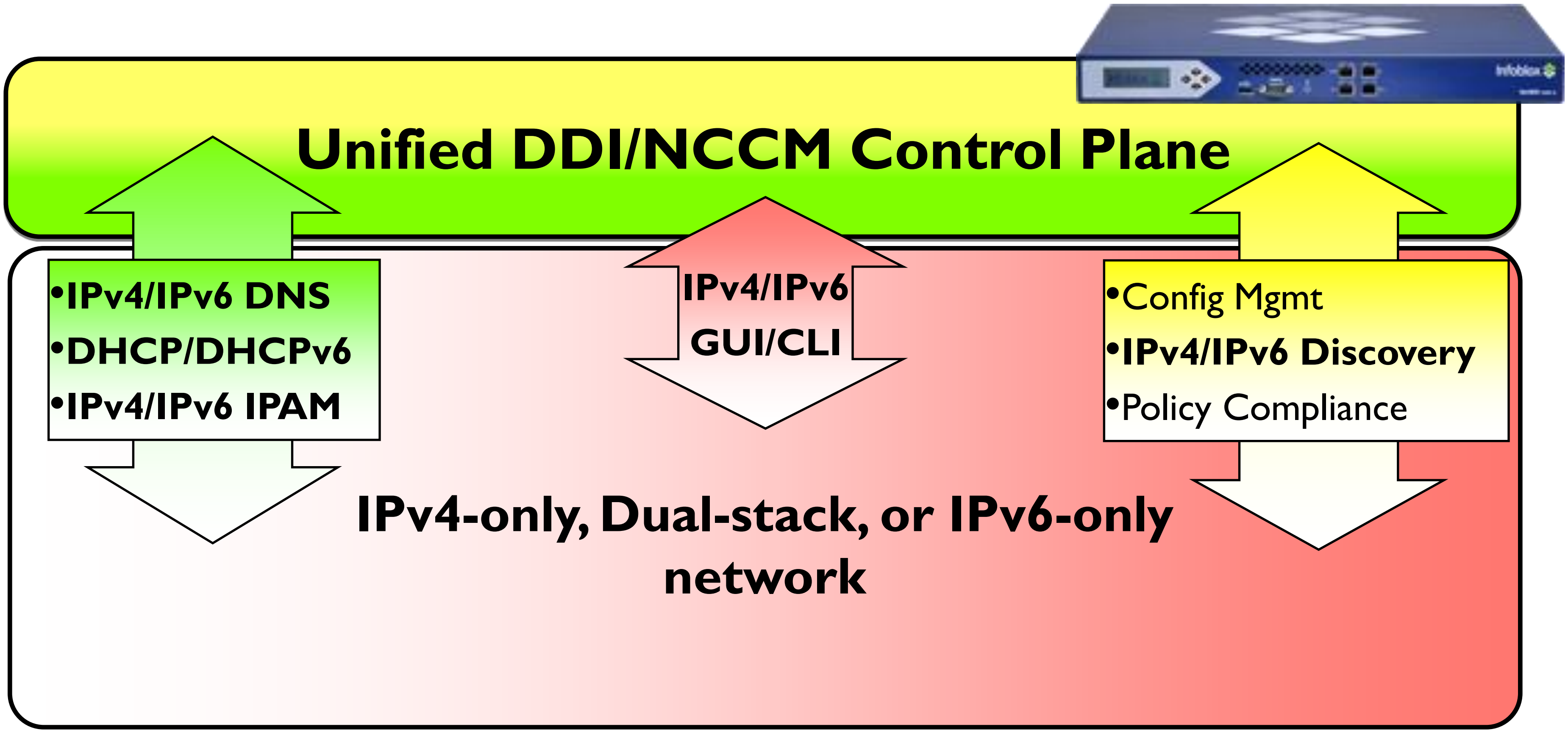
The evolution of IP address management



IPv6 compels the evolution of IP address management and network configuration management...



IP address management and network configuration management, evolved and IPv6 ready…



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Infoblox IPv6 CENTER OF EXCELLENCE

http://www.infoblox.com/en/resources/ipv6-resource-center.html

Continually updated resources for your IPv6 adoption initiative

Questions?

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References

- Geoff Huston's IPv4 Address Report: http://www.potaroo.net/tools/ipv4/
- "For Impatient Web Users, an Eye Blink Is Just Too Long to Wait": http://www.nytimes.com/2012/03/01/technology/impatient-web-users-flee-slow-loading-sites.html?_r=1
- Amazon and Google latency results: http://glinden.blogspot.com/2006/11/marissa-mayer-at-web-20.html
- Stanley Kubrick's "A Clockwork Orange": http://www.imdb.com/title/tt0066921/
- "Bankrupt Borders flogs 65,536 IP addresses at $12 a pop": http://www.theregister.co.uk/2011/12/05/borders_flogs_ipv4_addys/