

A decorative graphic consisting of several overlapping, stylized leaves in various colors (orange, yellow, green, blue, red) arranged in a curved path from the top left towards the bottom right.

IPv6 Trends

**Worldwide Infrastructure Security Report
& Arbor ATLAS**

Steve Nash

RIPE66, Dublin

IPv6 Roll-Out Moves Forward

- 80% of respondents either have IPv6 implemented or will do within the next 12 months
 - 24.1% have already completed their roll-out

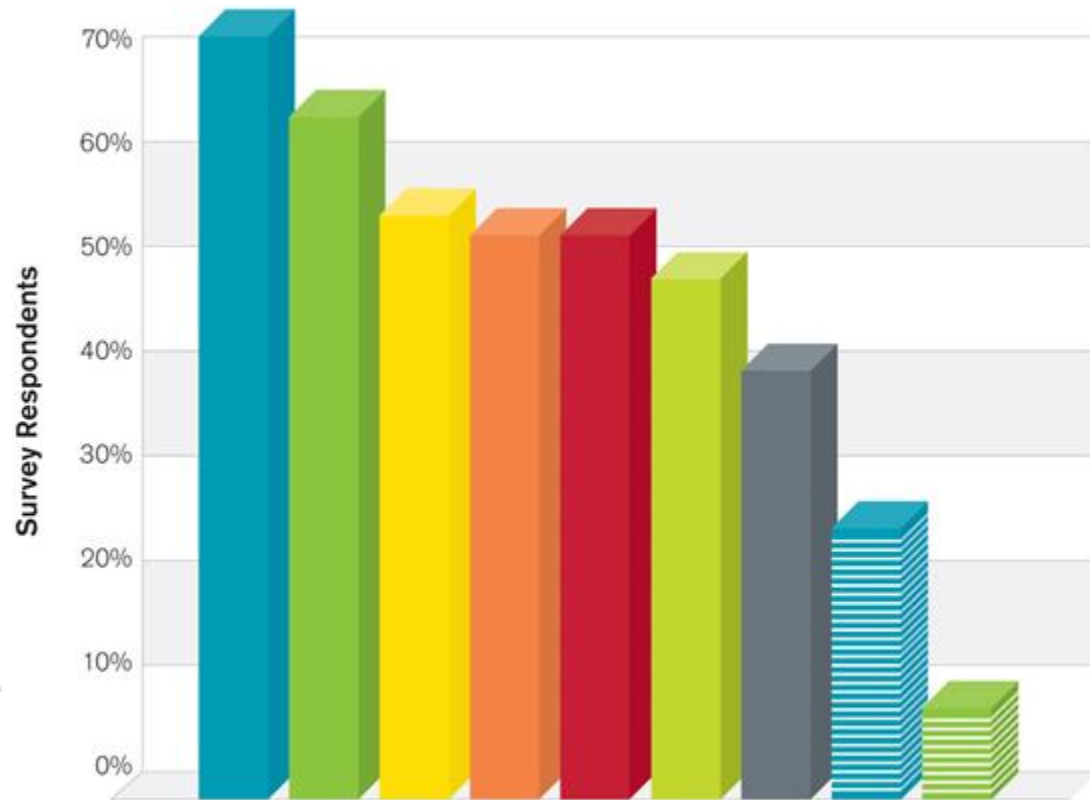
IPv6 Deployment Progress



- 24% Yes, deployment complete
- 54% Yes, deployment in process
- 22% No, but will be deploying soon

IPv6 Threats and Concerns 2013

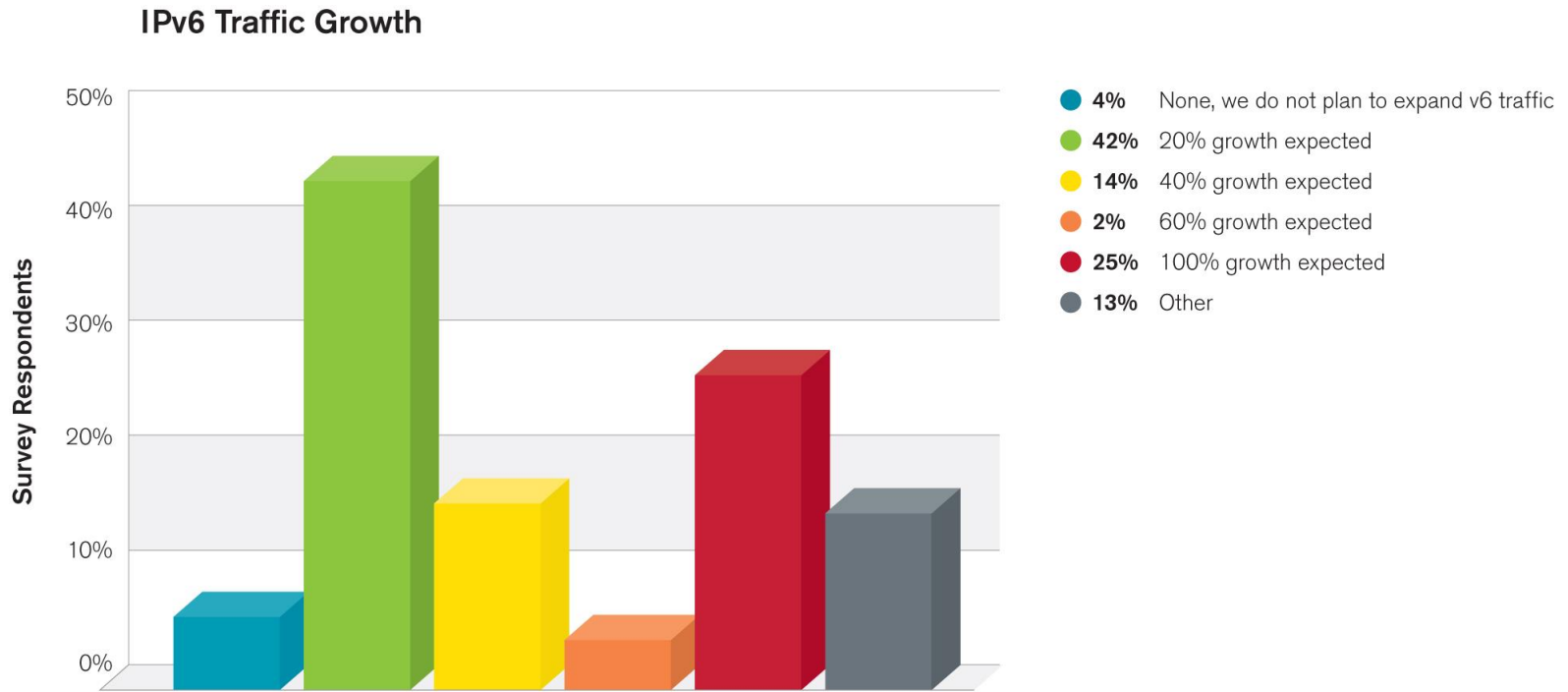
IPv6 Security Concerns



Source: Arbor Networks, Inc.

- 70% Traffic floods/DDoS
- 62% Misconfiguration
- 53% Inadequate IPv4/IPv6 feature parity
- 51% Stack implementation flaws
- 51% Visibility, I cannot see the data today
- 47% Botnets
- 38% Host scanning
- 23% Subscribers using IPv6 to bypass application rate limiting
- 6% Other

IPv6 Growth

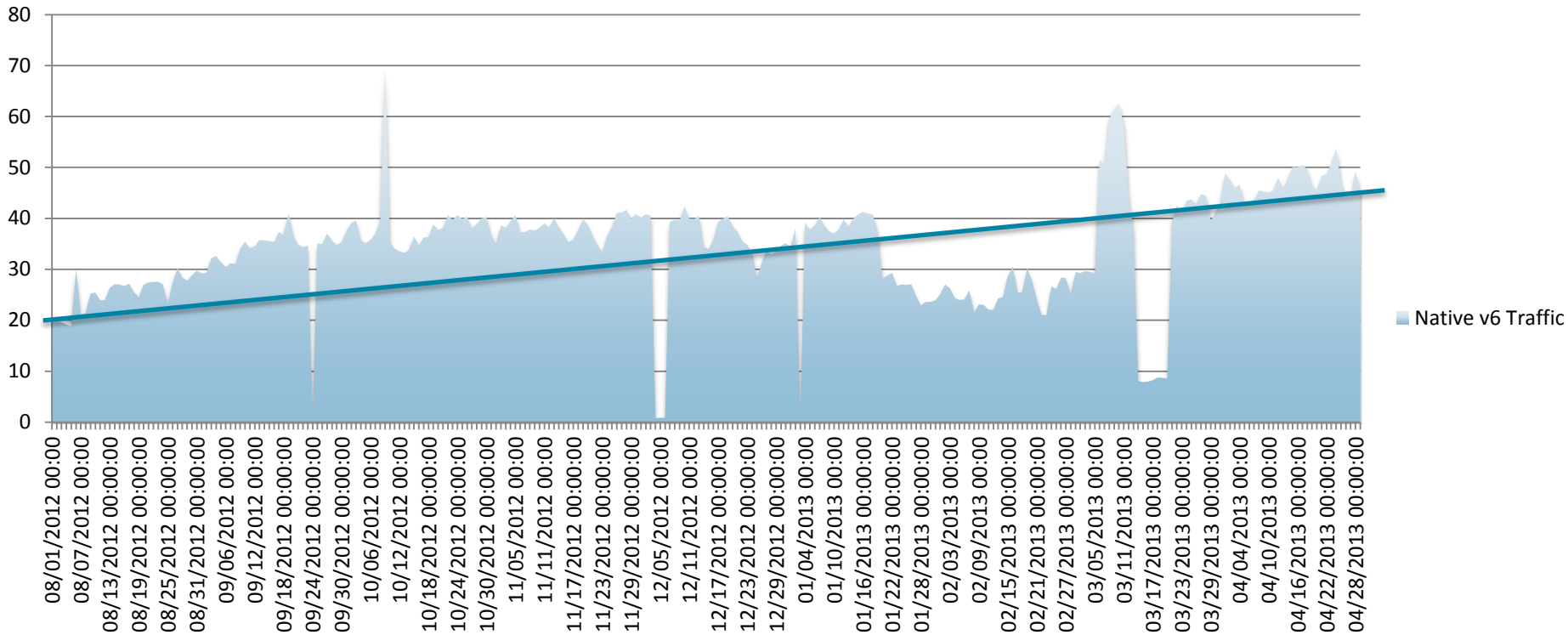


Source: Arbor Networks, Inc.

- Nearly half of respondents only anticipate 20% growth in IPv6 traffic volume over next twelve months
- One quarter expect more than 100%

ATLAS : IPv6 Visibility, World-Wide

Native IPv6 Traffic World-Wide, Gbps



ATLAS data shows that IPv6 is growing at more than 100% per year, but is still only 0.2% of IPv4 traffic

Summary for RIPE66

- Arbor sees 45Tbps of IPv4 Globally from 265 Ops
 - About 80 in RIPE
- Less than 1Gbps of Native IPv6 reported from RIPE region
 - across 25 v6 Operators
 - 55 are not reporting any NativeIPv6
- Is this because Instrumentation is not seen as a key part of 'rollout'?
- WISR
 - <http://www.arbornetworks.com/research>



Thank You

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