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Enterprise

Addressing Cybersecurity Gaps from Edge to Cloud: Key 2025 Research Insights

2025 Global Study on Closing the IT Security Gap

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The 2025 Global Study on Closing the IT Security Gap

Sponsored by Hewlett Packard Enterprise
Independently conducted by Ponemon Institute LLC
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Ponemon Institute© Research Report

Now in its fourth year, **The 2025 Global Study on Closing the IT Security Gap: Addressing Cybersecurity Gaps from Edge to Cloud**, published by the Ponemon Institute and sponsored by Hewlett Packard Enterprise, looks deeply into the critical actions needed to close security gaps and protect valuable data in the AI era.

2,100+

IT security practitioner
respondents

16+

Industry verticals
represented

Global

Representation: Australia,
Japan, North America,
United Kingdom,
Germany, France

Includes insights and best practices on:

AI adoption — Risk reduction strategies — IT team collaboration
Network security — Hybrid cloud — Cyber-resilience

Get the report: hpe.com/security

“The increasing sophistication of cyber criminals — as well as accelerating adoption of AI — make it more important than ever for organizations to become aggressive in closing security gaps in their IT infrastructure.”

Ponemon Institute, 2025

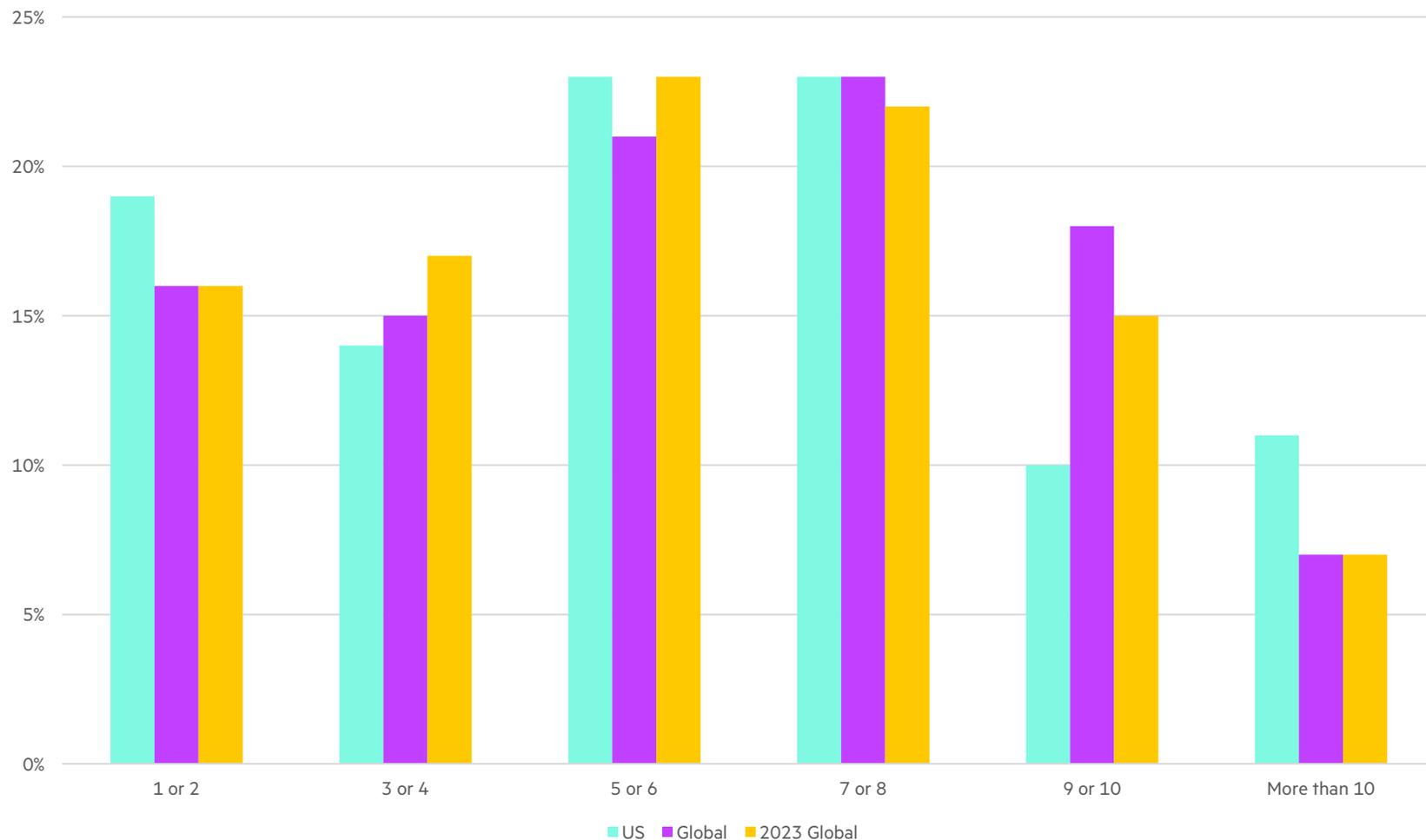


Key insights



Security breaches are a frequent concern

Security breaches experienced in last 12 months that resulted in data loss or downtime



- Globally, most organizations experienced 7-8 breaches resulting in data loss or downtime
- Globally, organizations are experiencing more breaches than last year
- Most US organizations reported experiencing 5-8 breaches in the last 12 months

Multiple operational and governance gaps persist

What are the primary operational and governance gaps in your organization's IT infrastructure?

(Top-ranked answers)

#1

Security staffing, skills
and experience
shortages

#2

Security solutions can't
keep up with
exponentially
increasing data

#3

Business
continuity plan
does not include
cyber incidents

Insufficient
budget

Pen testing, data protection, NDR top steps to minimize threats

What are the most effective steps to take to minimize threats within your organization's IT infrastructure?
(Top-ranked answers)

#1

Implement NDR
(network
detection and
response)

Conduct
comprehensive
penetration
testing

#2

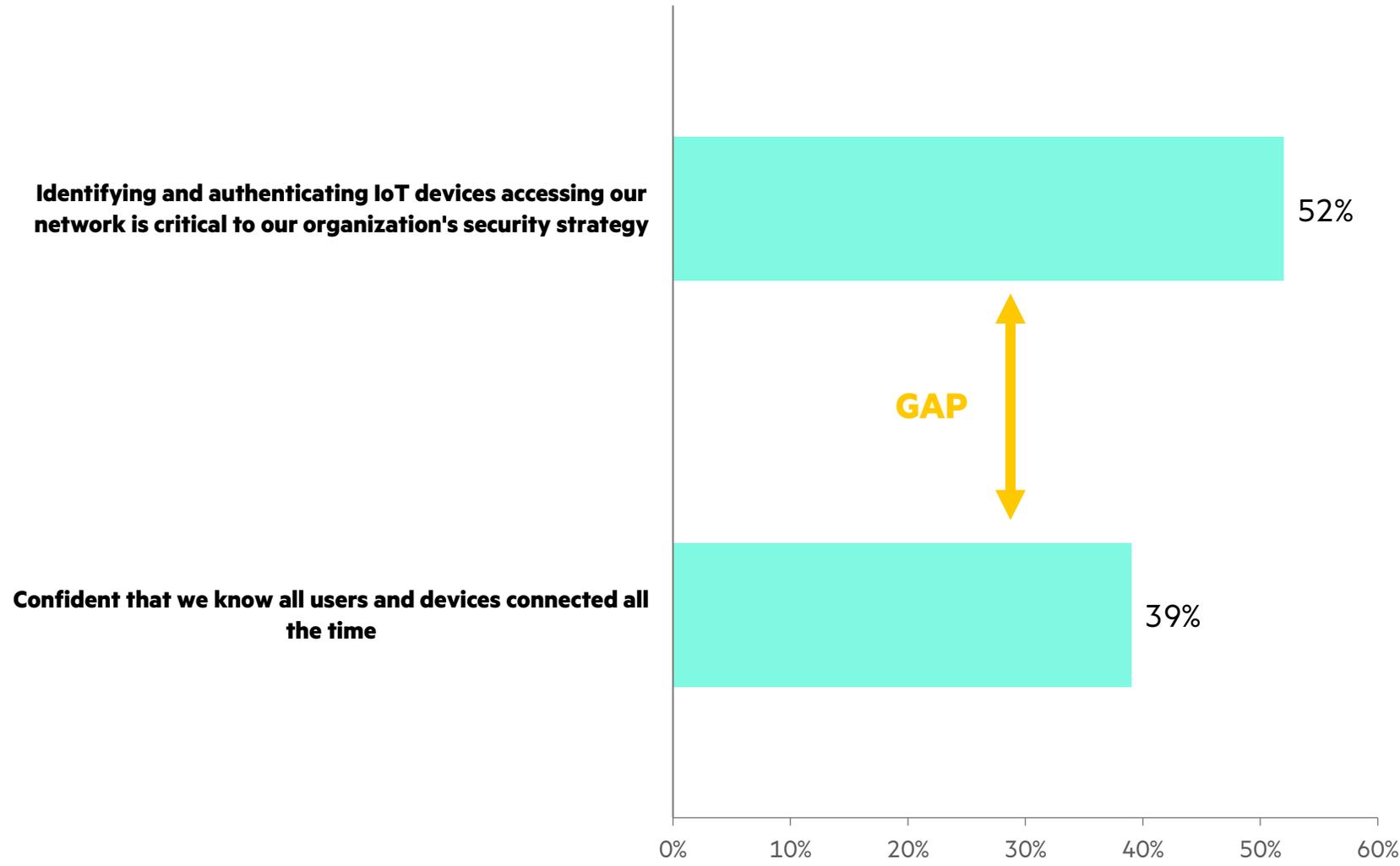
Prioritize rapid attack
and breach detection

#3

Implement a
secure and
continuous data
protection and
back up strategy

Implement
kernel detection
and utilize
silicon root
verification

Securing IoT is critical to closing cybersecurity gaps



“What is required to achieve a strong level of IoT security within your organization?”

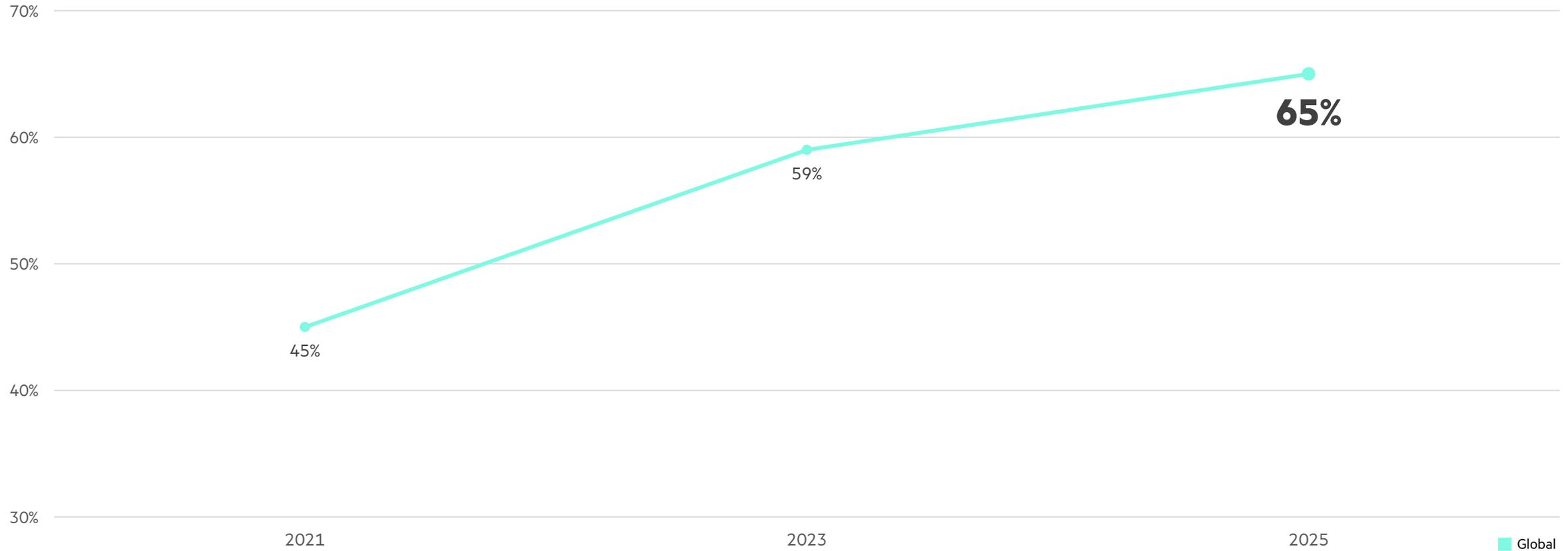
Network access control

is ranked #1 or #2 in all countries globally (except Japan)

Global

SASE adoption is rising

Organizations that have deployed, or plan to deploy, SASE

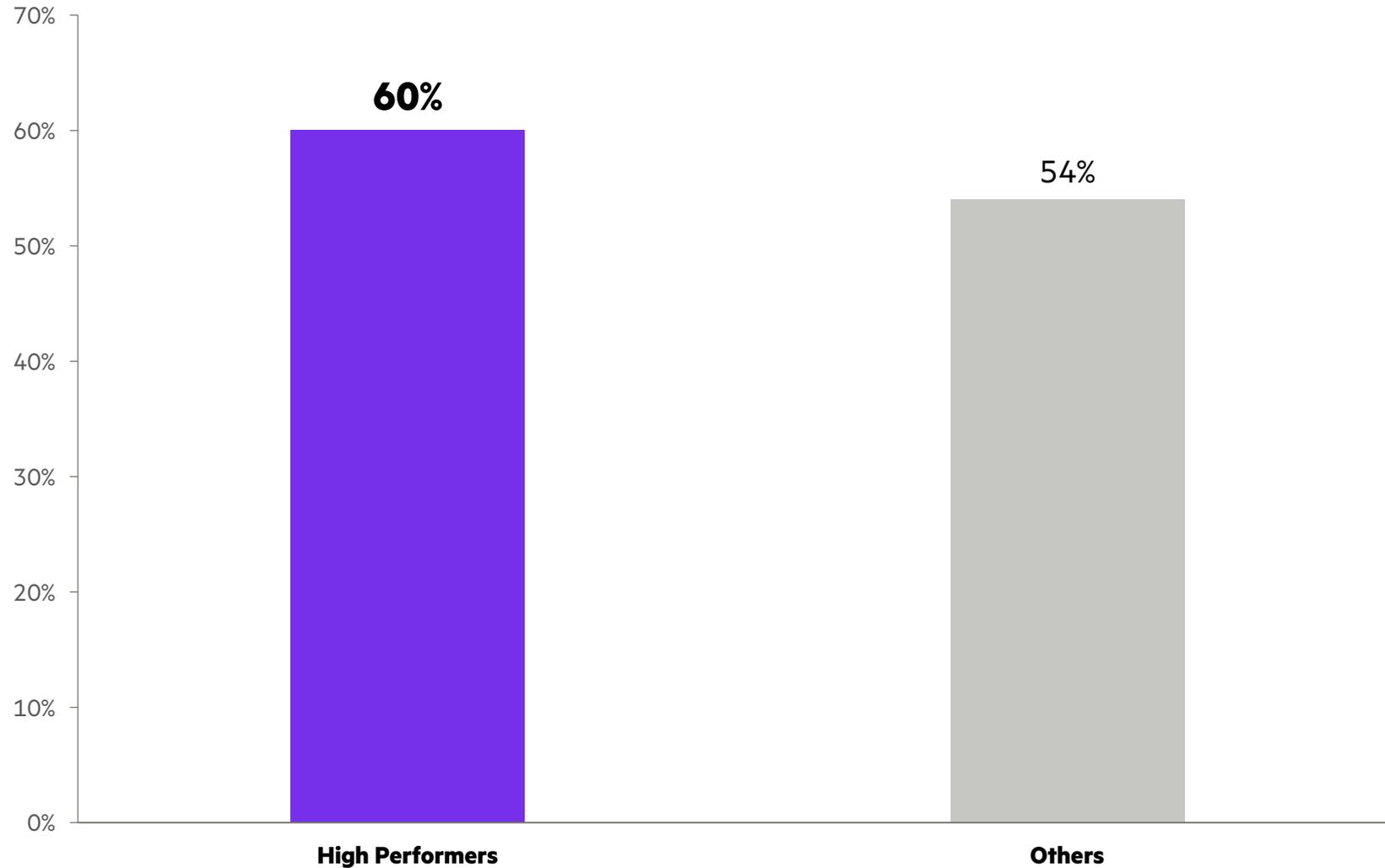


Rate of SASE adoption has been increasing steadily over the years

Best practices of high-performing security organizations



High-performing network and security teams collaborate effectively

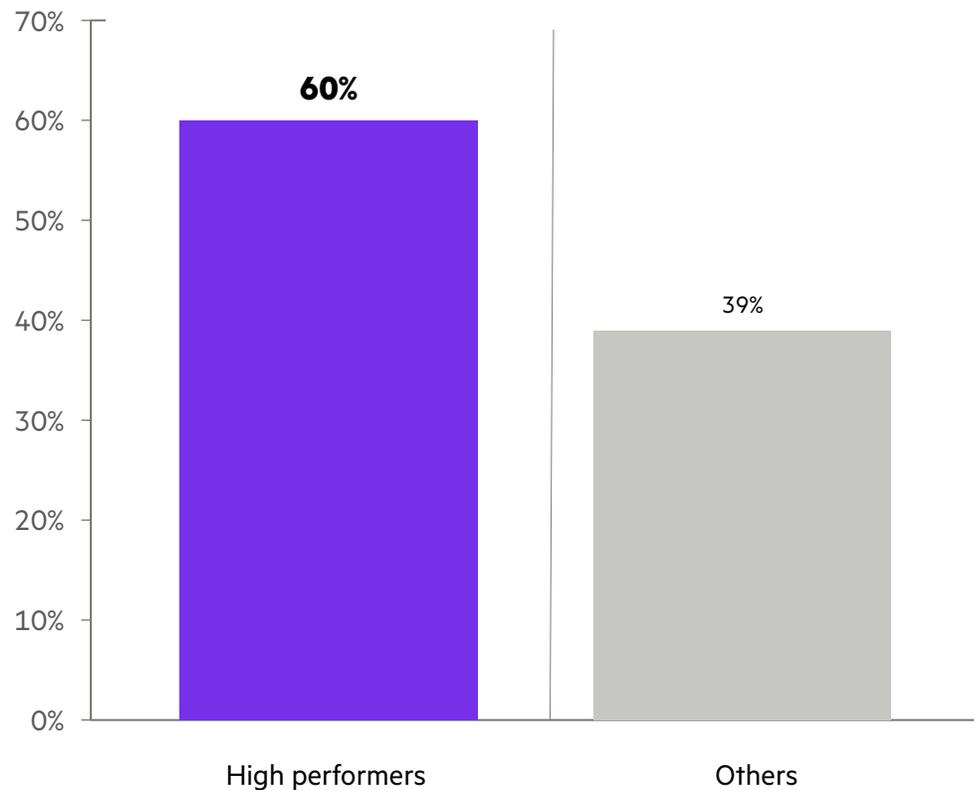


60% of high-performing security organizations agreed that their network and security teams collaborate effectively to reduce cybersecurity gaps and improve cyber resilience

High-performing security organizations prioritize network access control

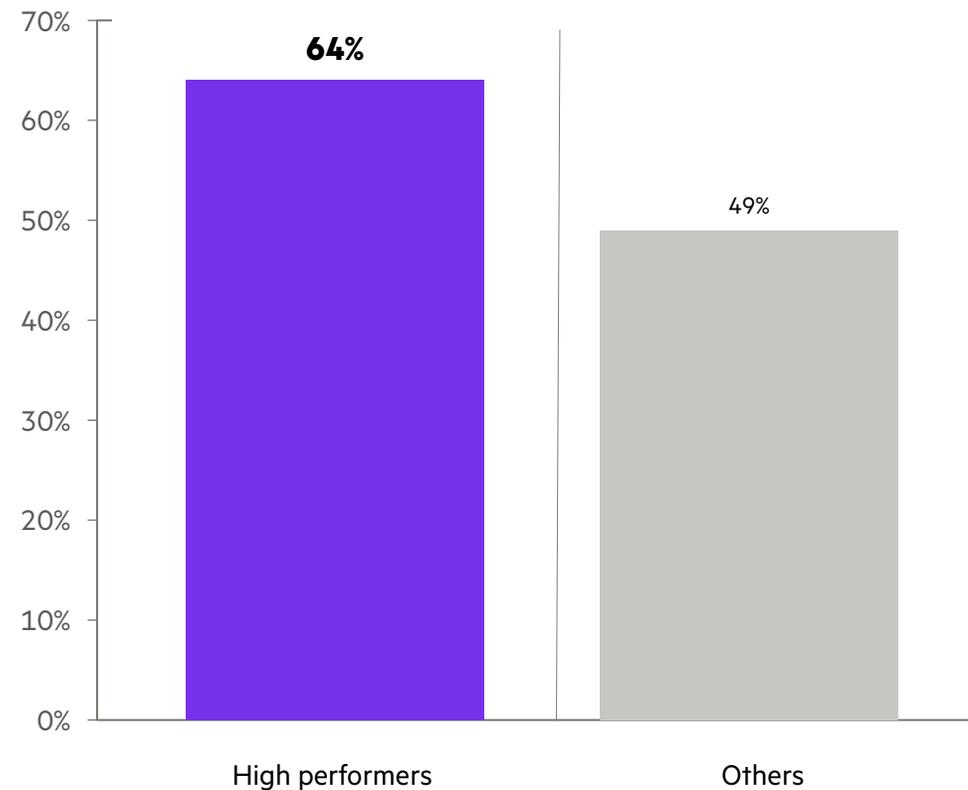
NAC solutions are important to security strategy

On a scale of 1 = not important to 10 = highly Important, 7+ responses presented

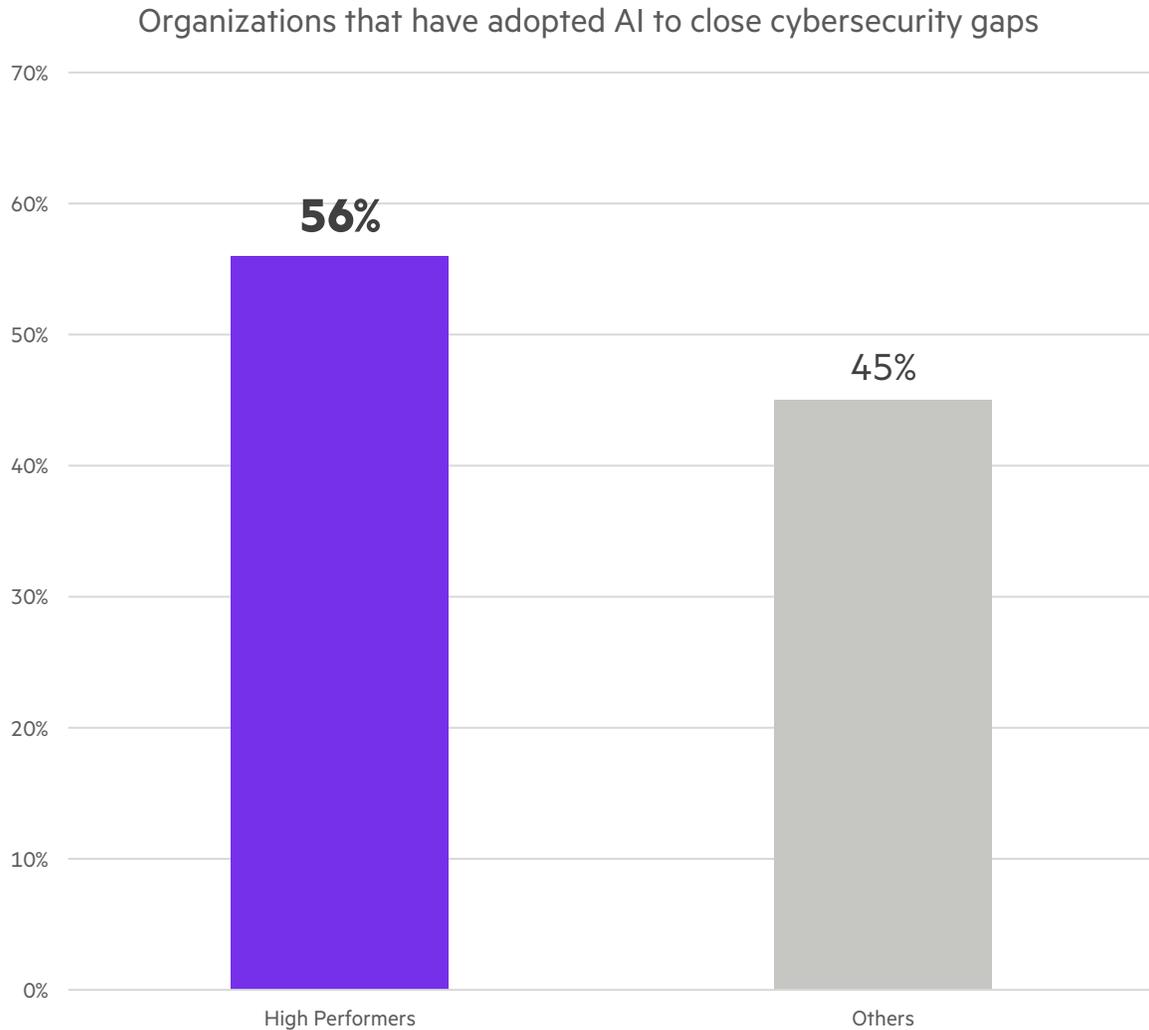


Integration of NAC functionality with other elements of the security stack is important

On a scale of 1 = not important to 10 = highly Important, 7+ responses presented



High performers are more likely to adopt AI for security



High-performers' priorities for using AI to close cybersecurity gaps (Top-ranked answers)

#1

Improve collaboration between network and security teams

#2

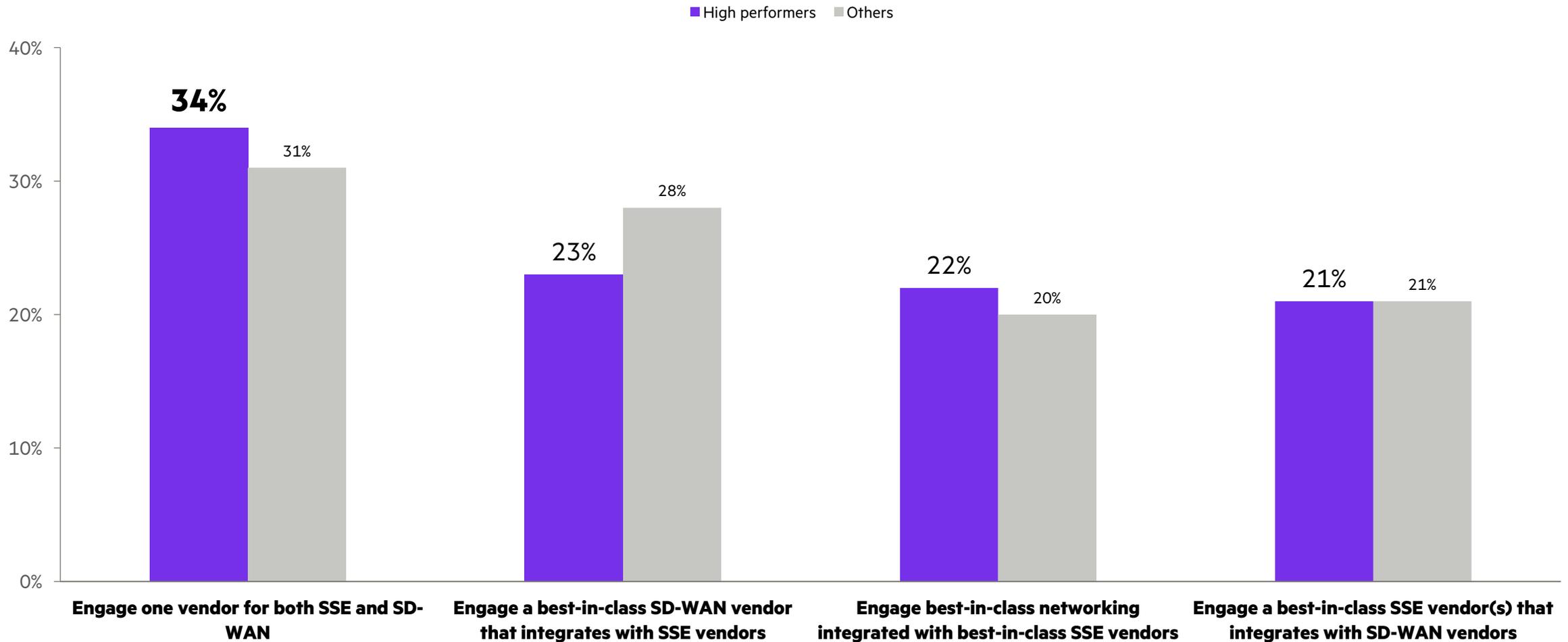
Improve IoT device profiling accuracy
Prioritize vulnerabilities based on exploitability and impact

#3

Detect and prevent attacks more effectively
Detect changes to overall security posture

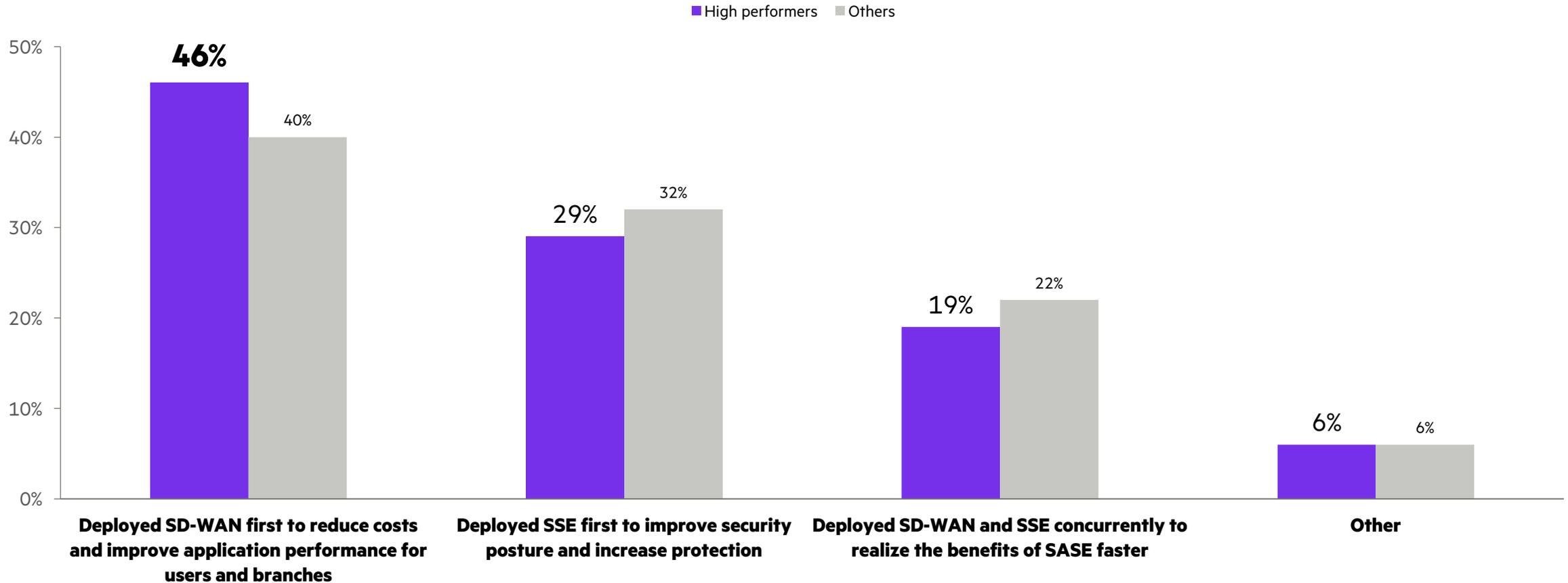
High-performing organizations are more likely to choose single-vendor SASE

What best describes your SASE deployment strategy?



High-performing organizations are more likely to start their SASE journey with SD-WAN

What is the first step your organization took or will take in your SASE deployment?



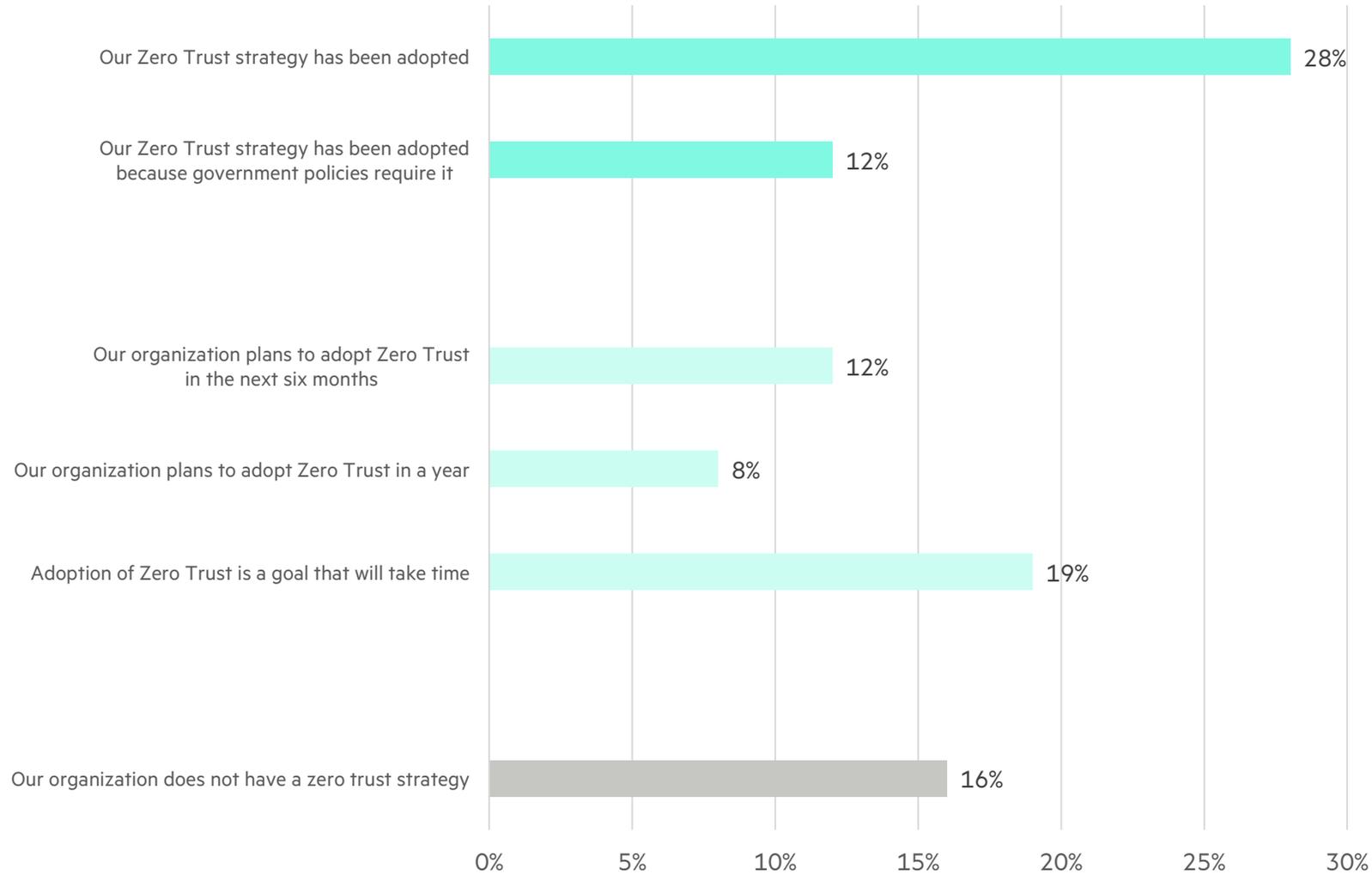
Thank you



Additional insights



Zero trust strategies are a business imperative



60% of organizations globally have adopted or plan to adopt zero trust security strategies within a year



Continuous data protection, breach detection, pen testing top high performers' steps to minimize threats

What are the most effective steps to take to minimize threats within your organization's IT infrastructure?

(Top-ranked answers)

#1

Implement a secure and continuous data protection and back up strategy

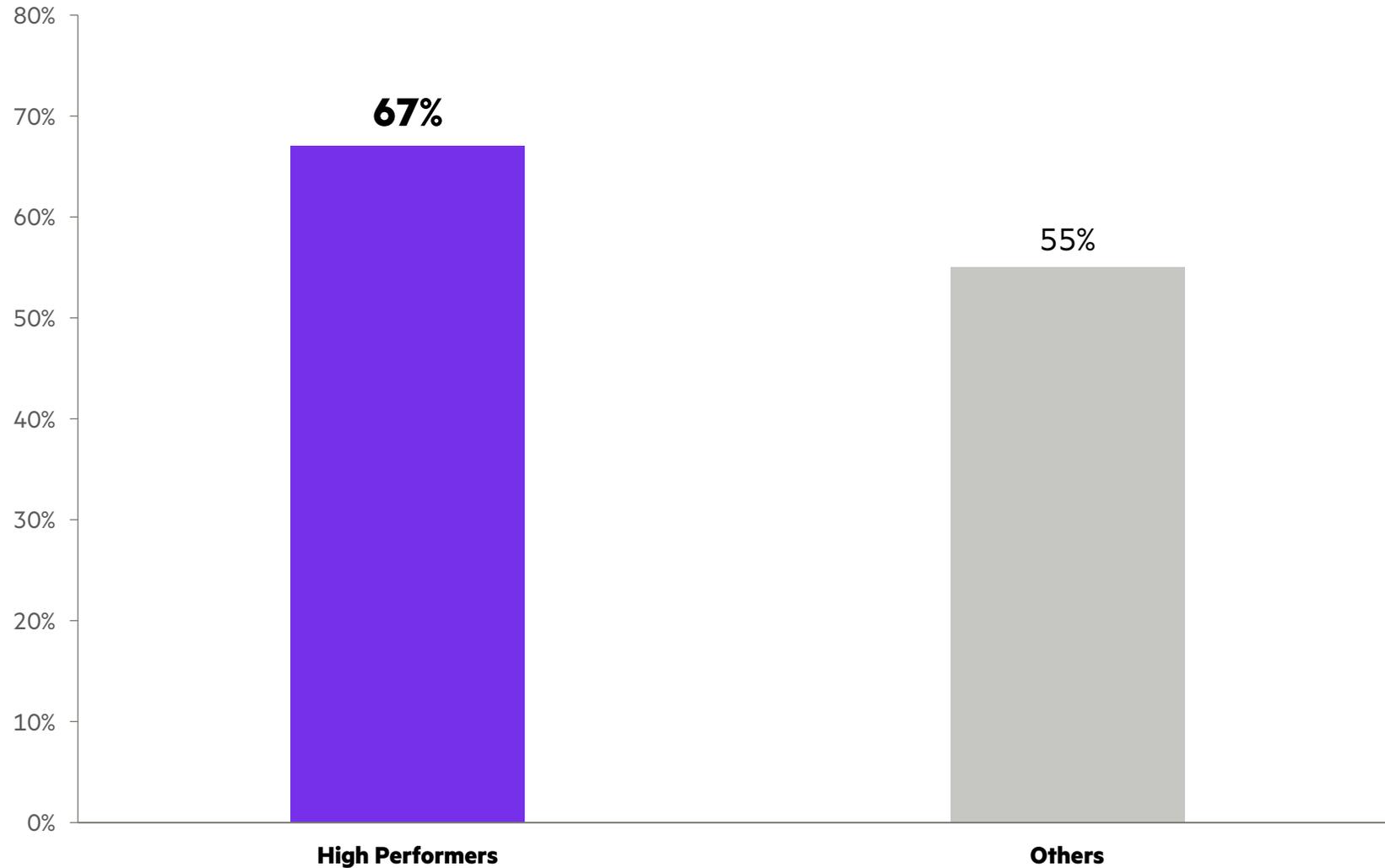
#2

Prioritize rapid attack and breach detection

#3

Conduct comprehensive penetration testing

Securing IoT is a critical for high-performing organizations



67% of high-performing security organizations agreed that identifying and authenticating IoT devices accessing their network is critical to their security strategy