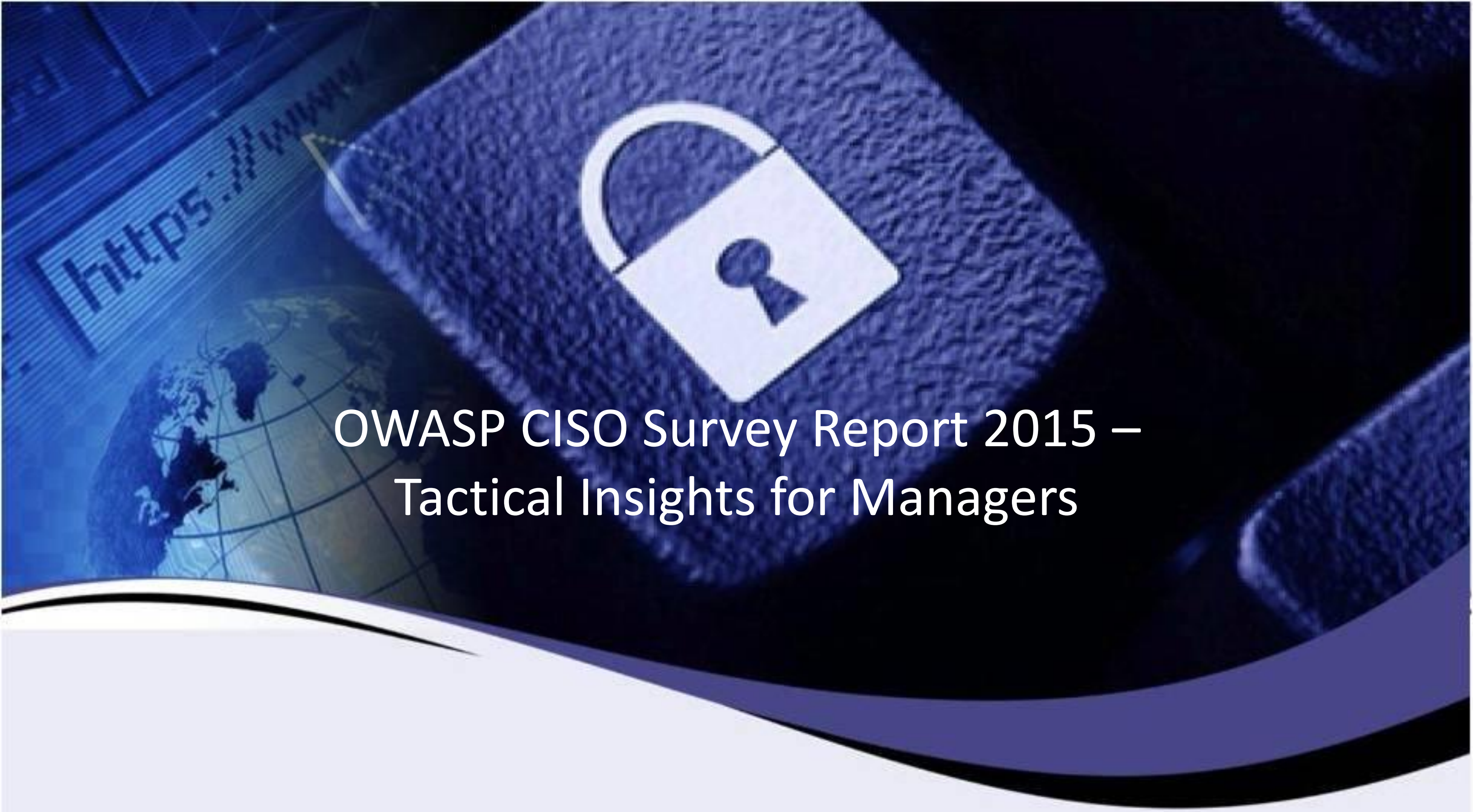

OWASP CISO Survey Report 2015 – Tactical Insights for Managers

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Disclaimer

- *The views and opinions expressed in this presentation are those of the author and not of any organisation.*

- *“Everything I say is my own personal opinion. Especially the wrong ones….”*

About Me

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The Open Web Application Security Project

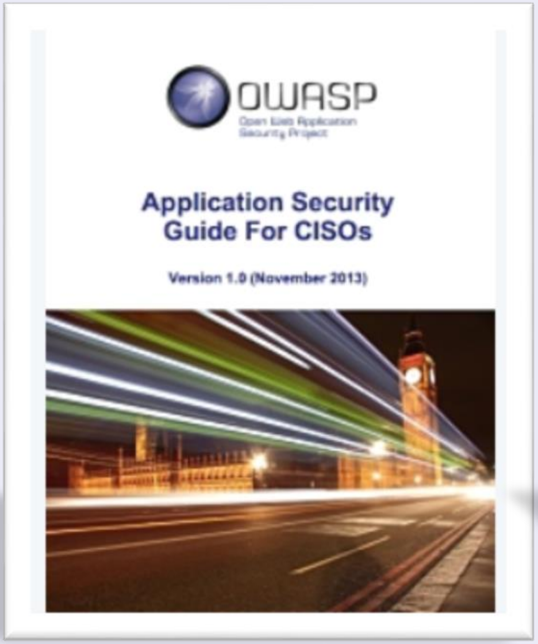
OWASP
Open Web & Application Security Project, www.owasp.org
global non-profit open source security community

Tobias Gondrom
Global Board, OWASP
CTO Security, Huawei

- 20 years information security and development experience (Global Head of Security, CISO, CTO), CISSP, CSSLP, CCISO
- Project Leader OWASP CISO Survey Report
- Author of Internet Standards on Secure Archiving, CISO training and co-author of the OWASP CISO survey report and CISO guide
- Sloan Fellow M.Sc. London Business School
- Chair of IAOC (IETF Admininistrative Ovesight Committee), Chair of IETF Security WGs, Member of the IETF Security Directorate, Cloud Security Alliance HK chapter board member

HUAWEI

Based on findings of the OWASP CISO Survey Report & CISO Guide



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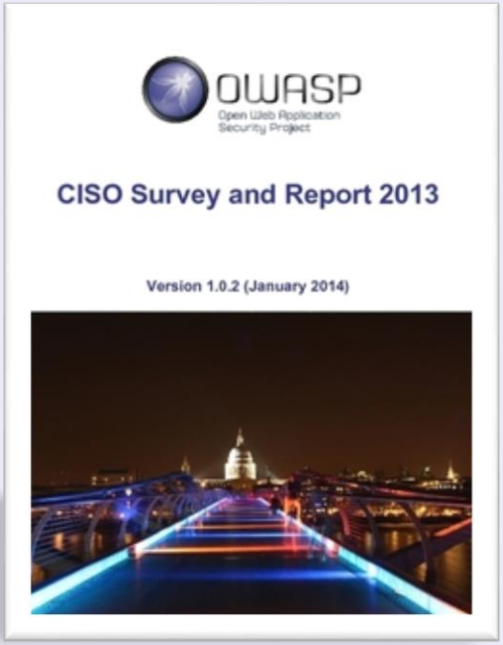
Application Security Guide For CISOs

Version 1.0 (November 2013)



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CISO Survey and Report 2013

Version 1.0.2 (January 2014)

OWASP CISO Guide:
https://www.owasp.org/images/d/d6/Owasp-ciso-guide.pdf

OWASP CISO Survey:
https://www.owasp.org/index.php/OWASP_CISO_Survey

- Methodology
  - Phase 1: Online Survey sent to 1000s of CISOs and Information Security Managers, with comprehensive question sets
    - Dataset received of about 500 replies from various industries…
  - Phase 2: Followed by selective personal interviews
  - *Release of 2015 version in June 2016*

CYBER
ATTACKS
AHEAD

CISO Survey: External Threats are on the Rise!

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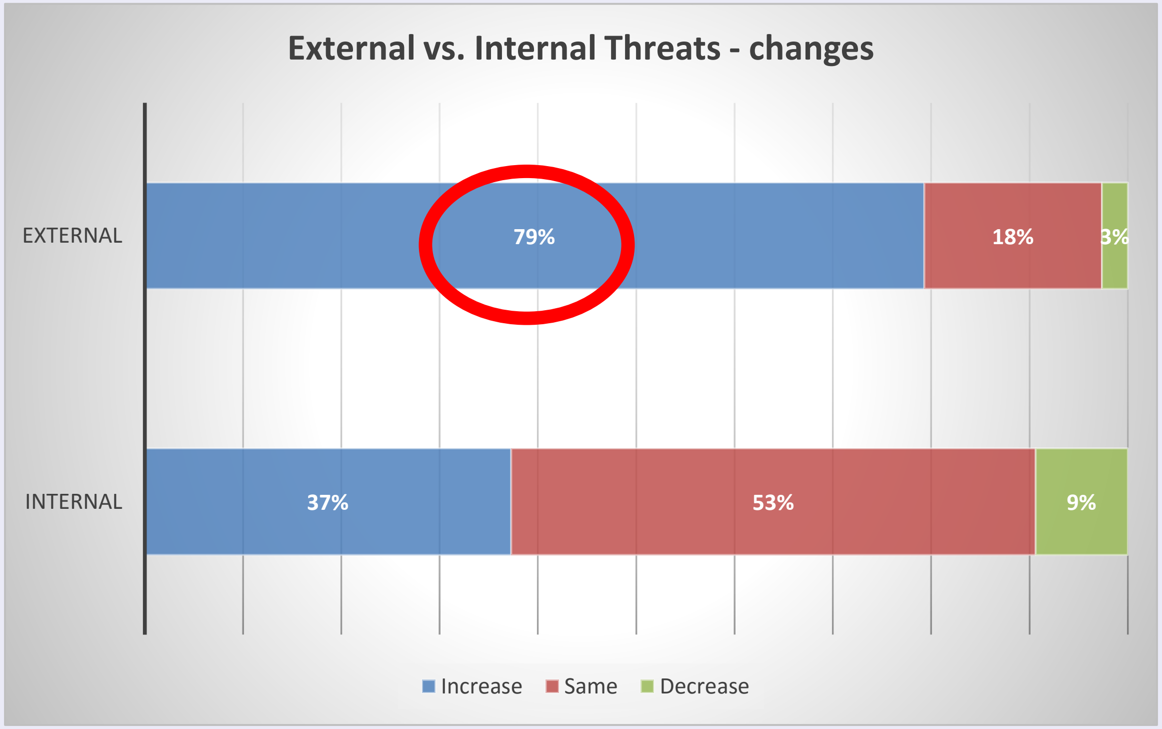

» External attacks or fraud (e.g., phishing, website attacks)

» Internal attacks or fraud (e.g., abuse of privileges, theft of information)

CISO Survey: Threats towards your organization

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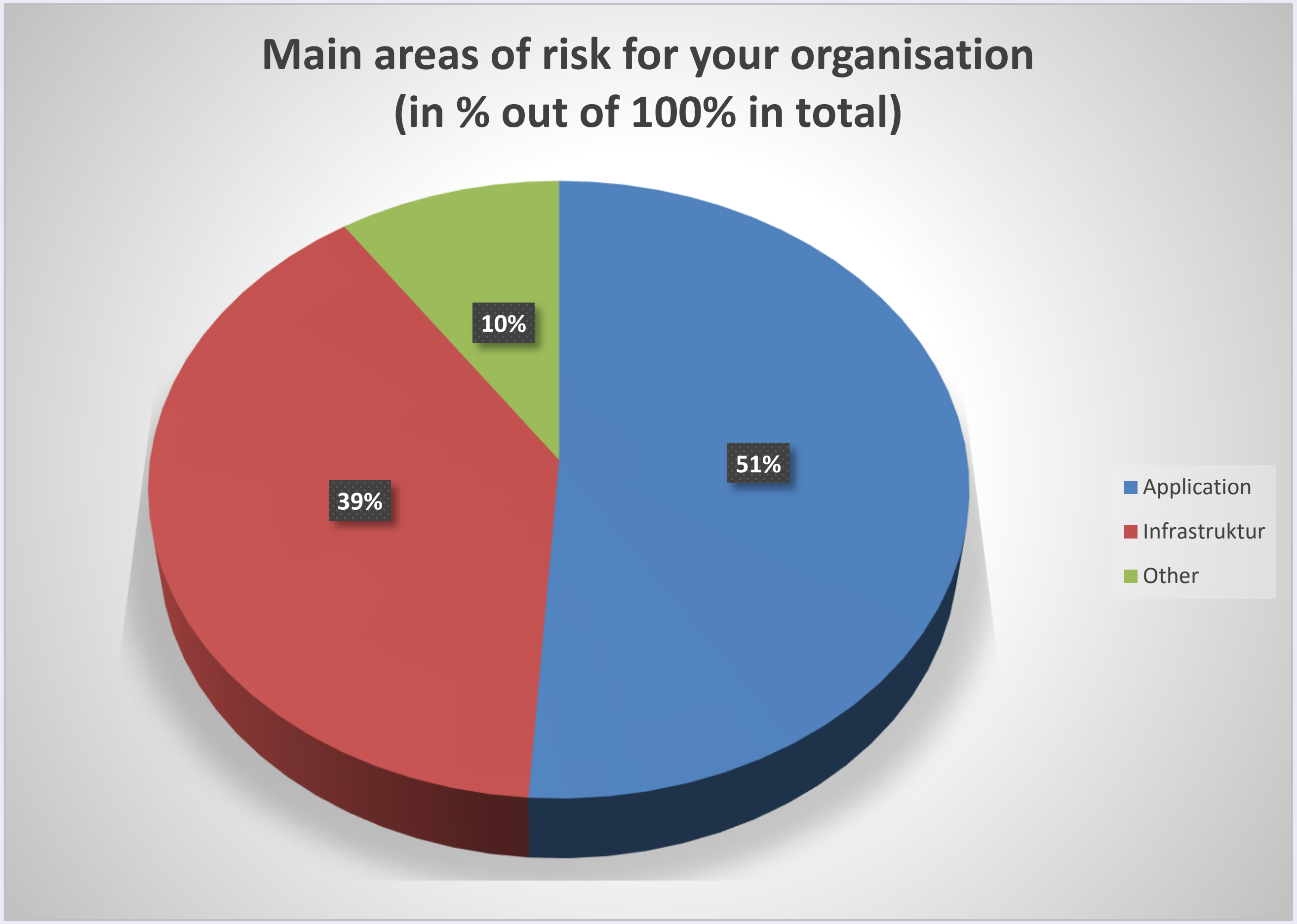

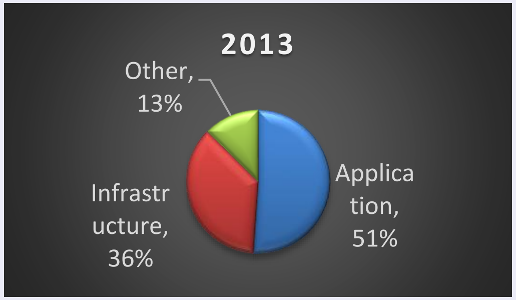

CISO Survey : Threat Trends

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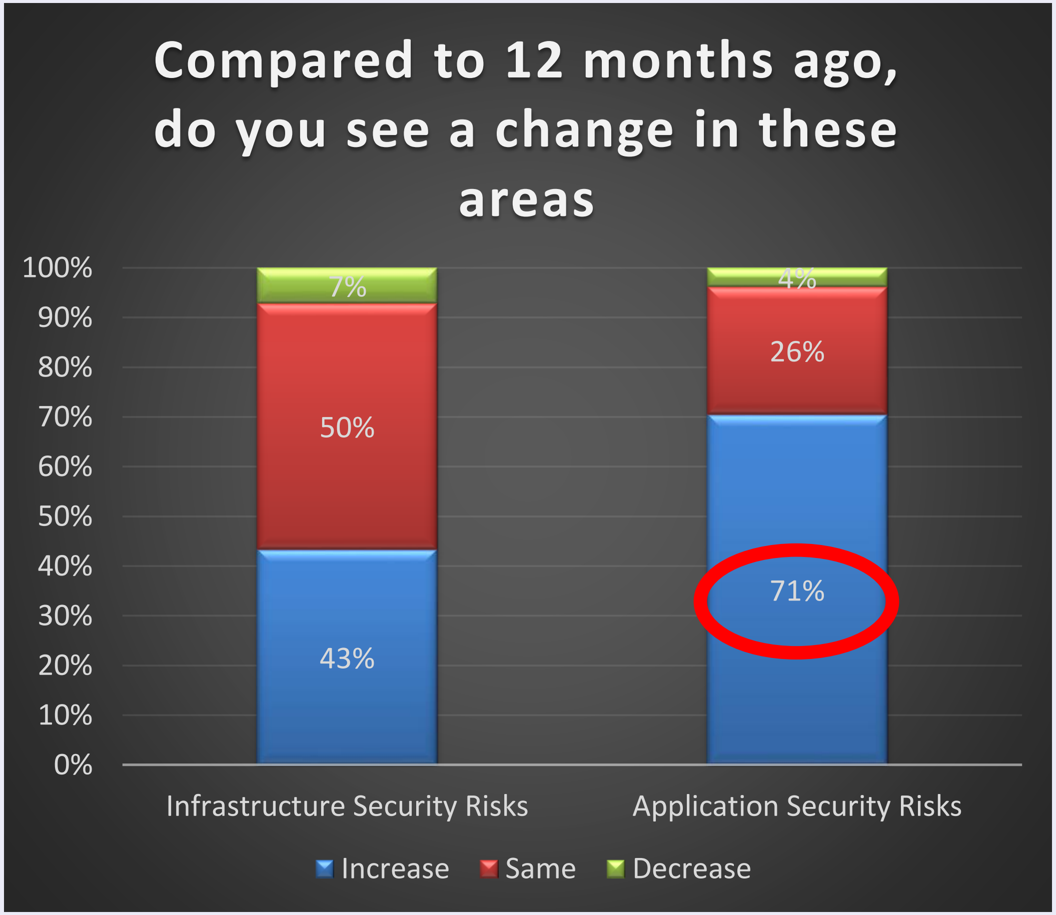
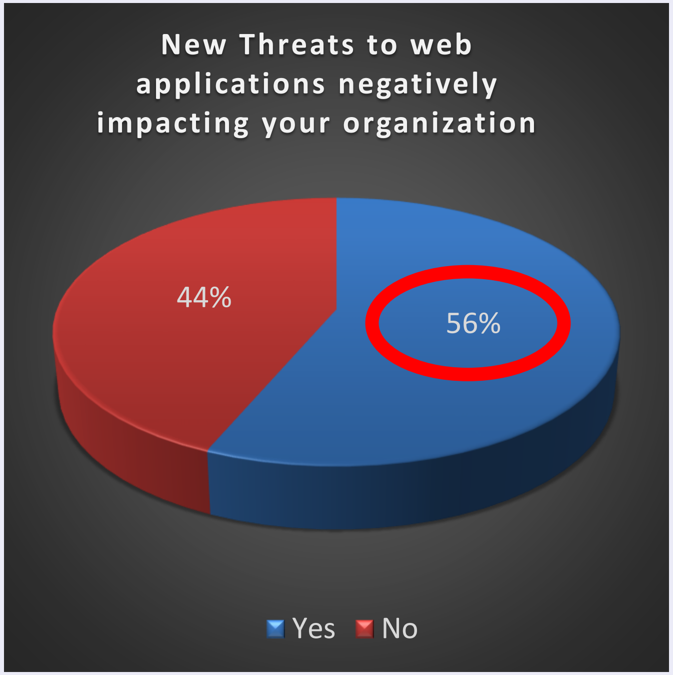
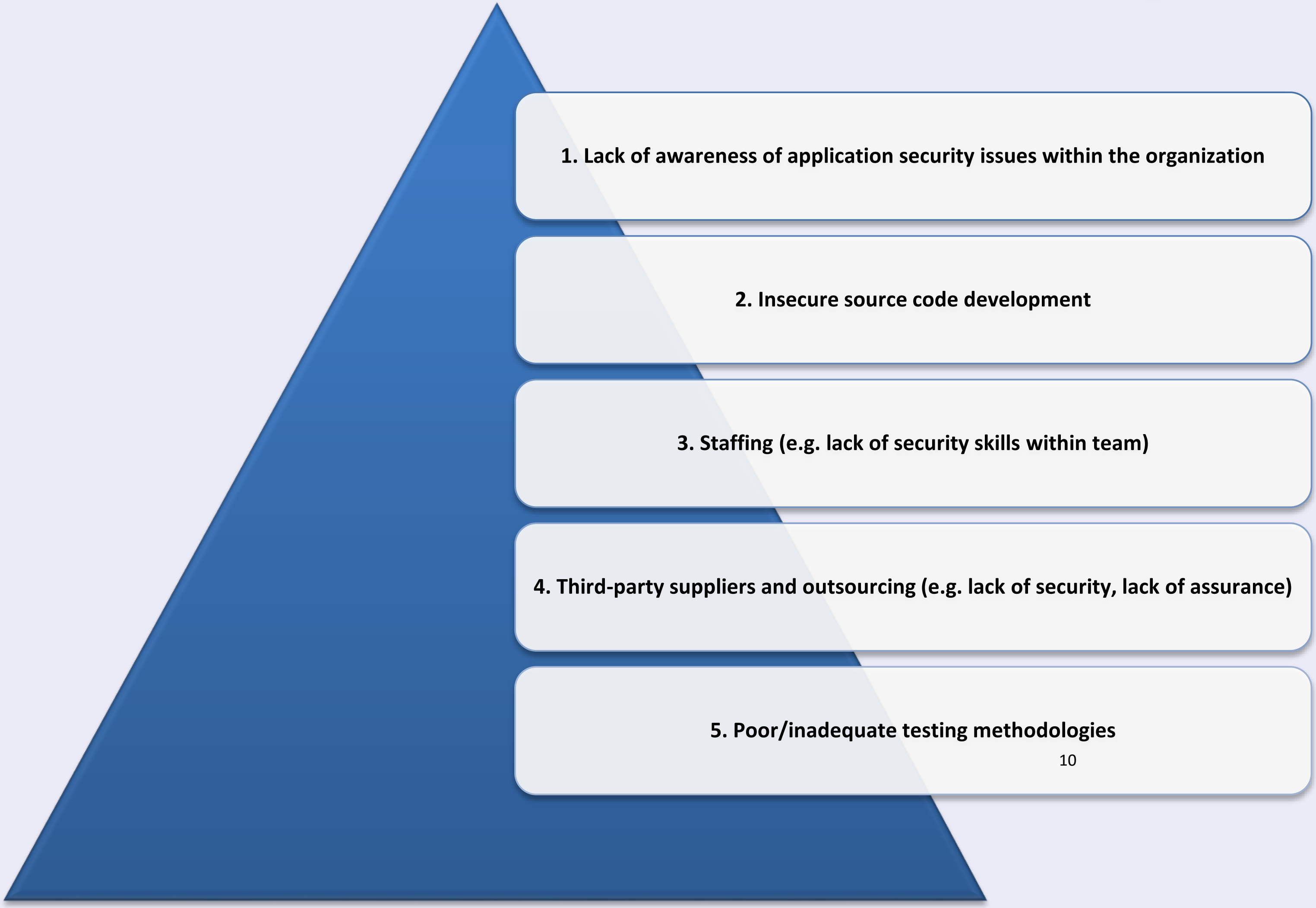




Top-5 Sources of application security risk



1. Lack of awareness of application security issues within the organization

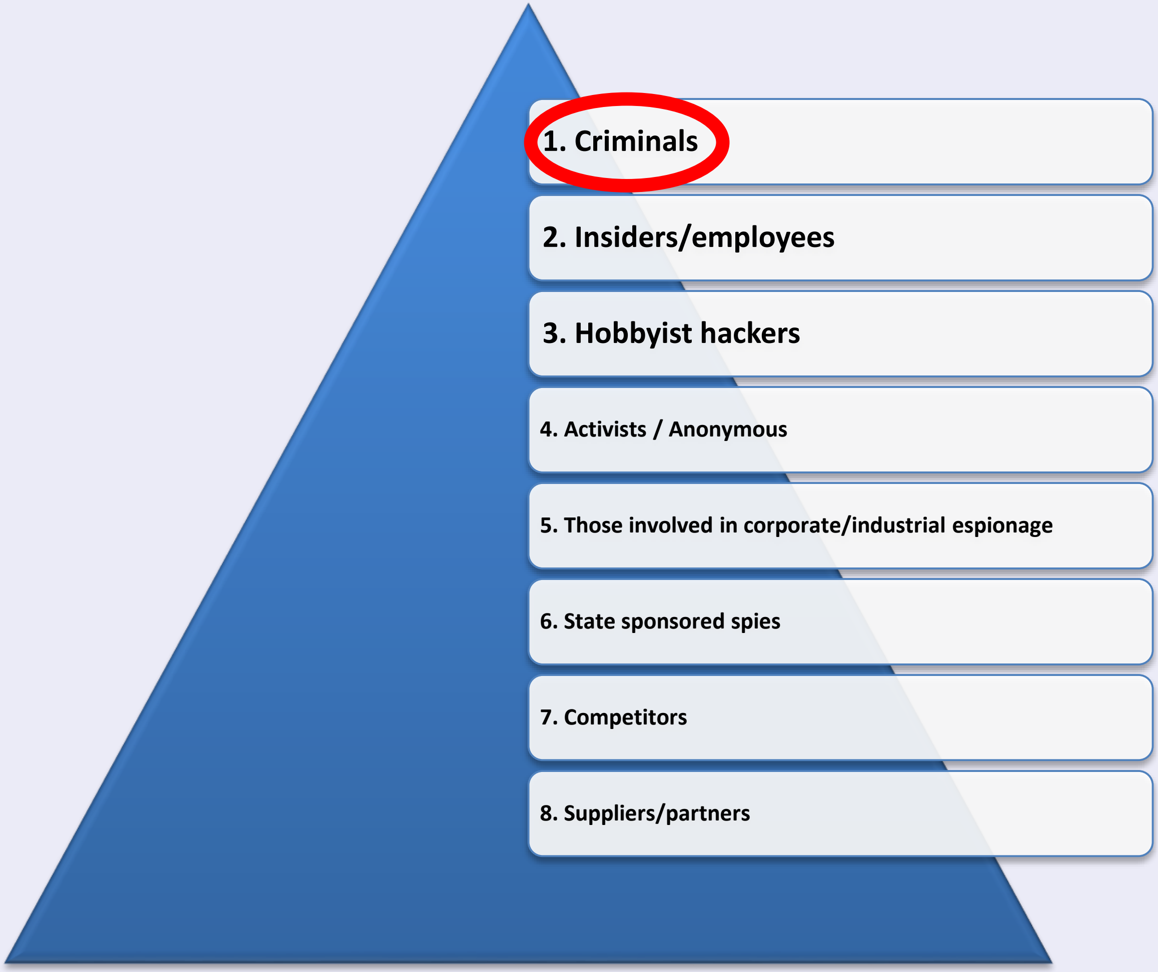
2. Insecure source code development

3. Staffing (e.g. lack of security skills within team)

4. Third-party suppliers and outsourcing (e.g. lack of security, lack of assurance)

5. Poor/inadequate testing methodologies

you think are the most likely to target your company in the next 12 months



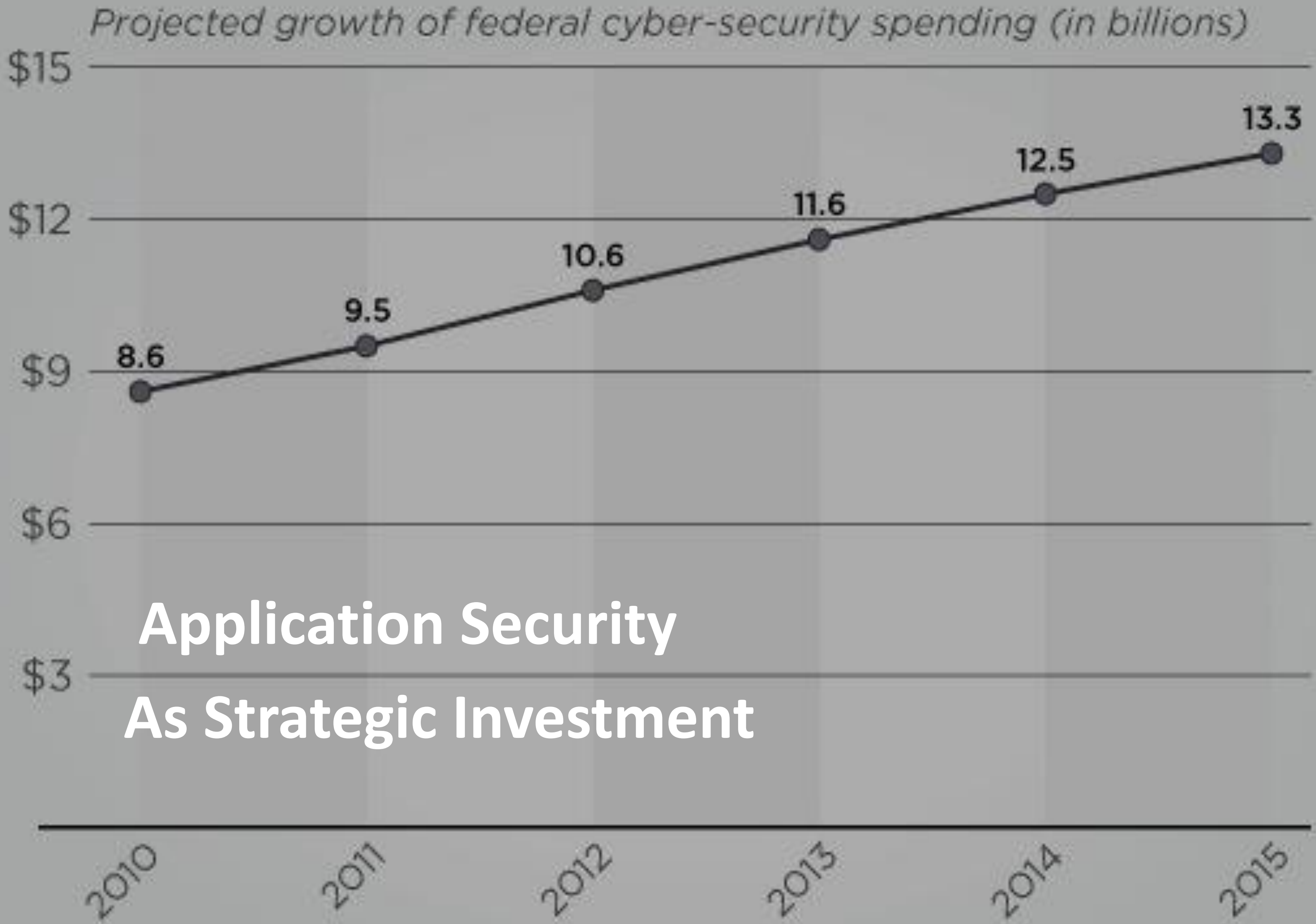
1. Criminals
2. Insiders/employees
3. Hobbyist hackers
4. Activists / Anonymous
5. Those involved in corporate/industrial espionage
6. State sponsored spies
7. Competitors
8. Suppliers/partners

Learning from application security incidents… …things are easier than you think

- Reviewing the incidents of the past year(s), many could be traced back to:
  1. Lack of proper basic application security controls during the development phase
  2. Lack of awareness
  3. Did not require a “very high” level of skill from the attacker to exploit (though they may require time and patience to find)

Application Security

As Strategic Investment



Source: Deltek, Inc.
By: CHRIS SPURLOCK/THE HUFFINGTON POST

HUFFPOST TECH

CISO Survey & Report: Investments in Security - % of IT budget for Security

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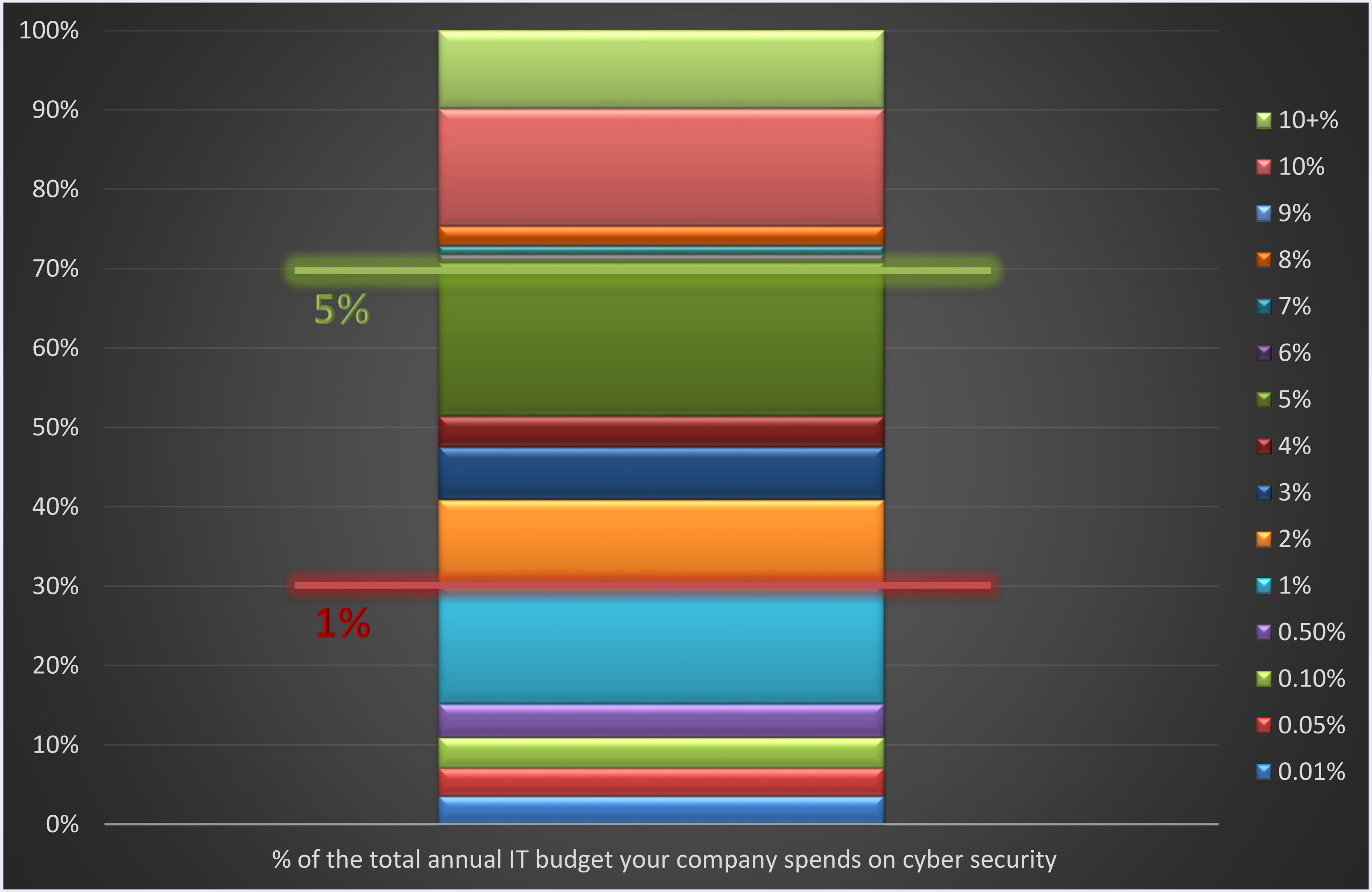

CISO Survey & Report: Investments in Security

Your total cyber security spending over the next 12 months will…

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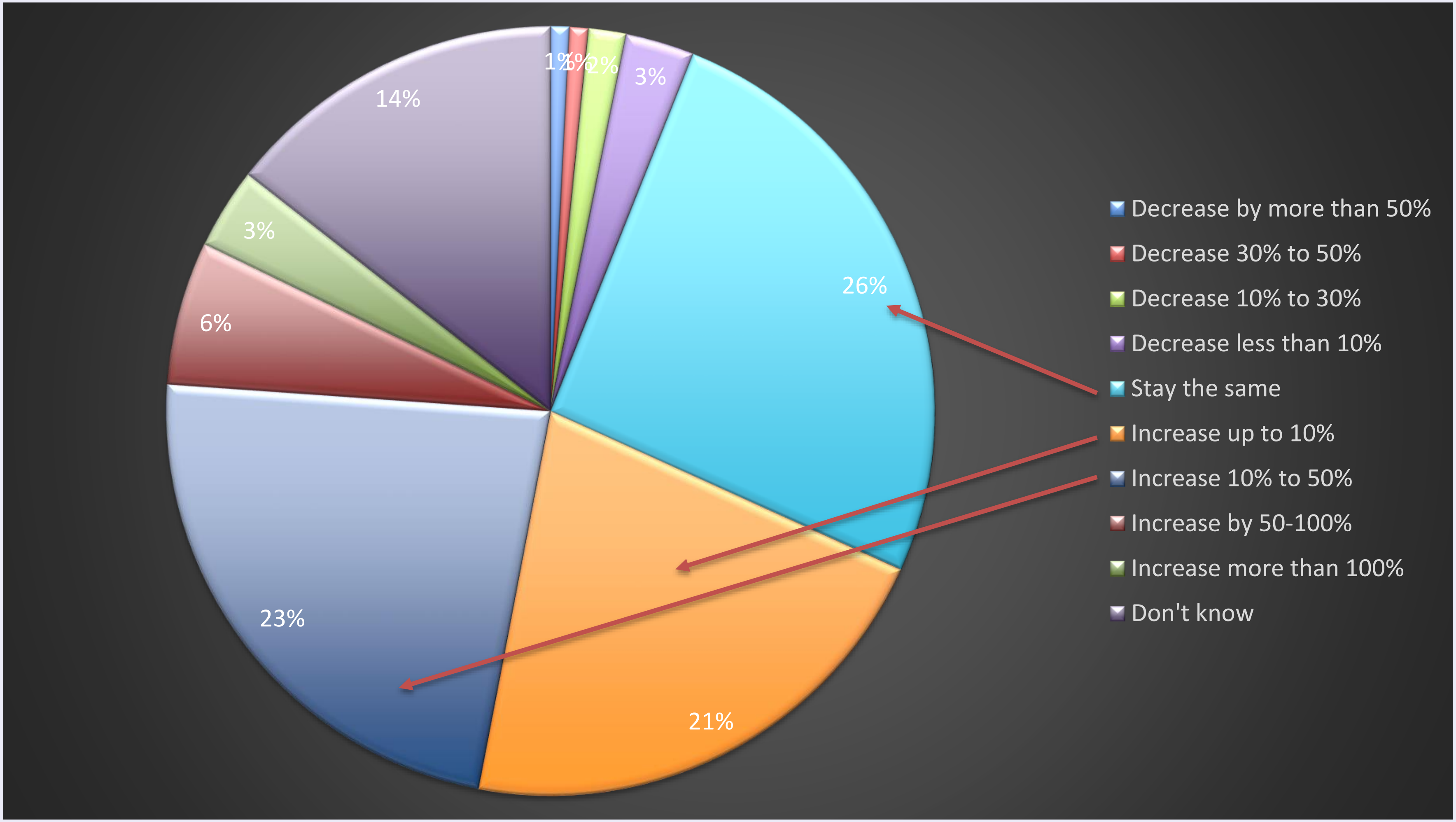

How many security breaches did your company experience in the last 12 months? (Cyber security and Application Security breaches)

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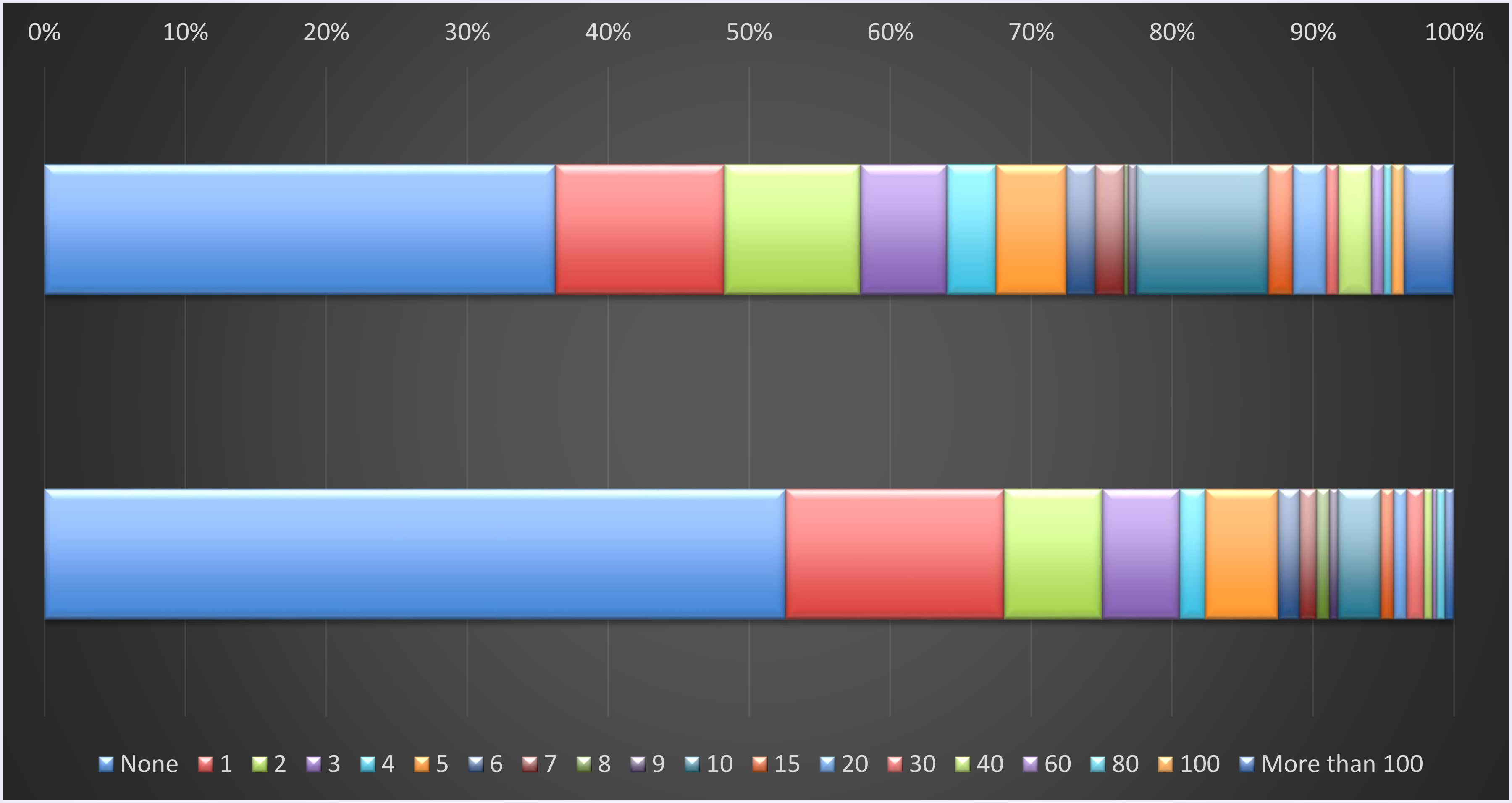

Main damage types caused by cyber attacks

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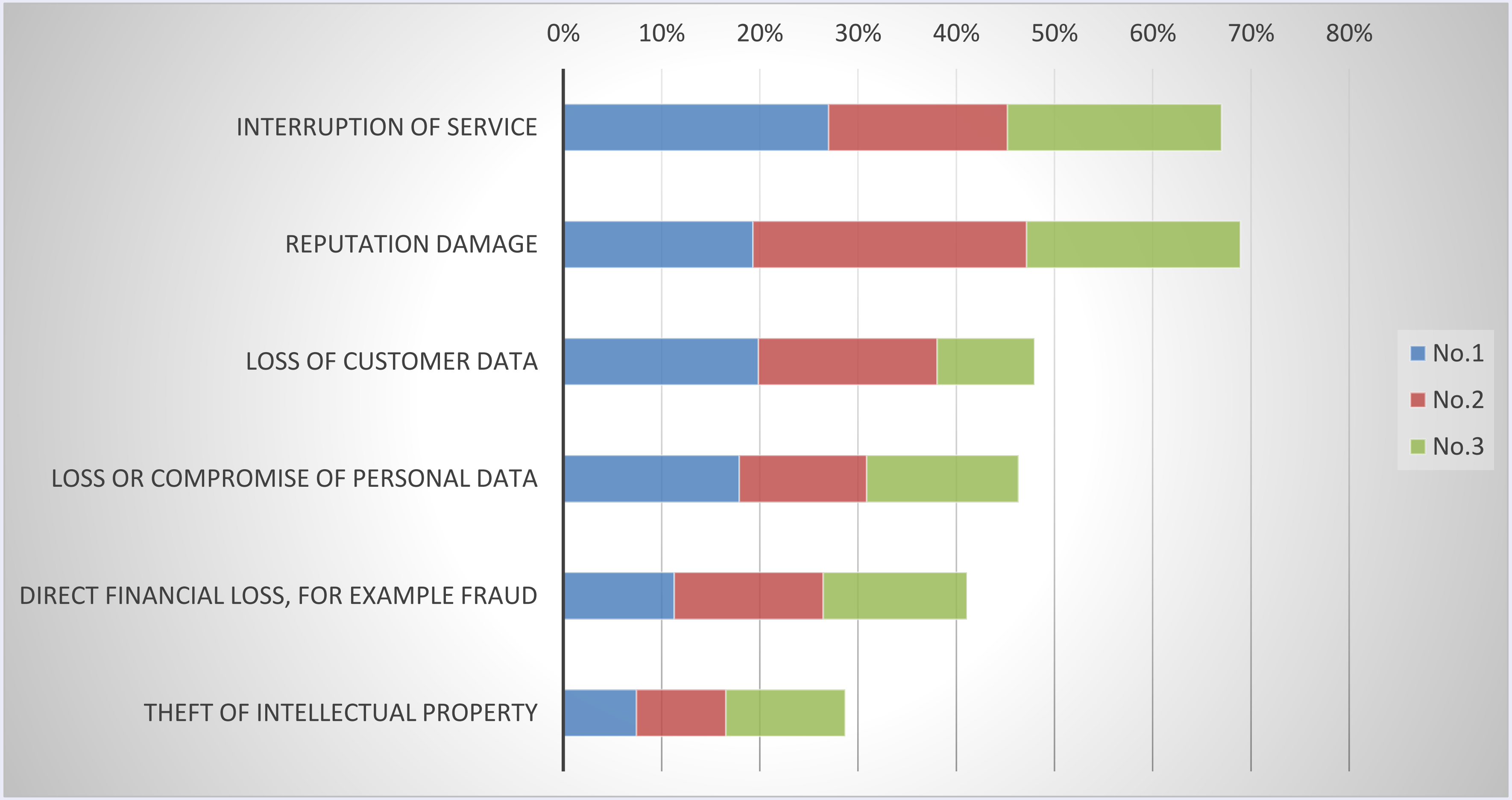

Investments in Security: Top security priorities for the coming 12 months

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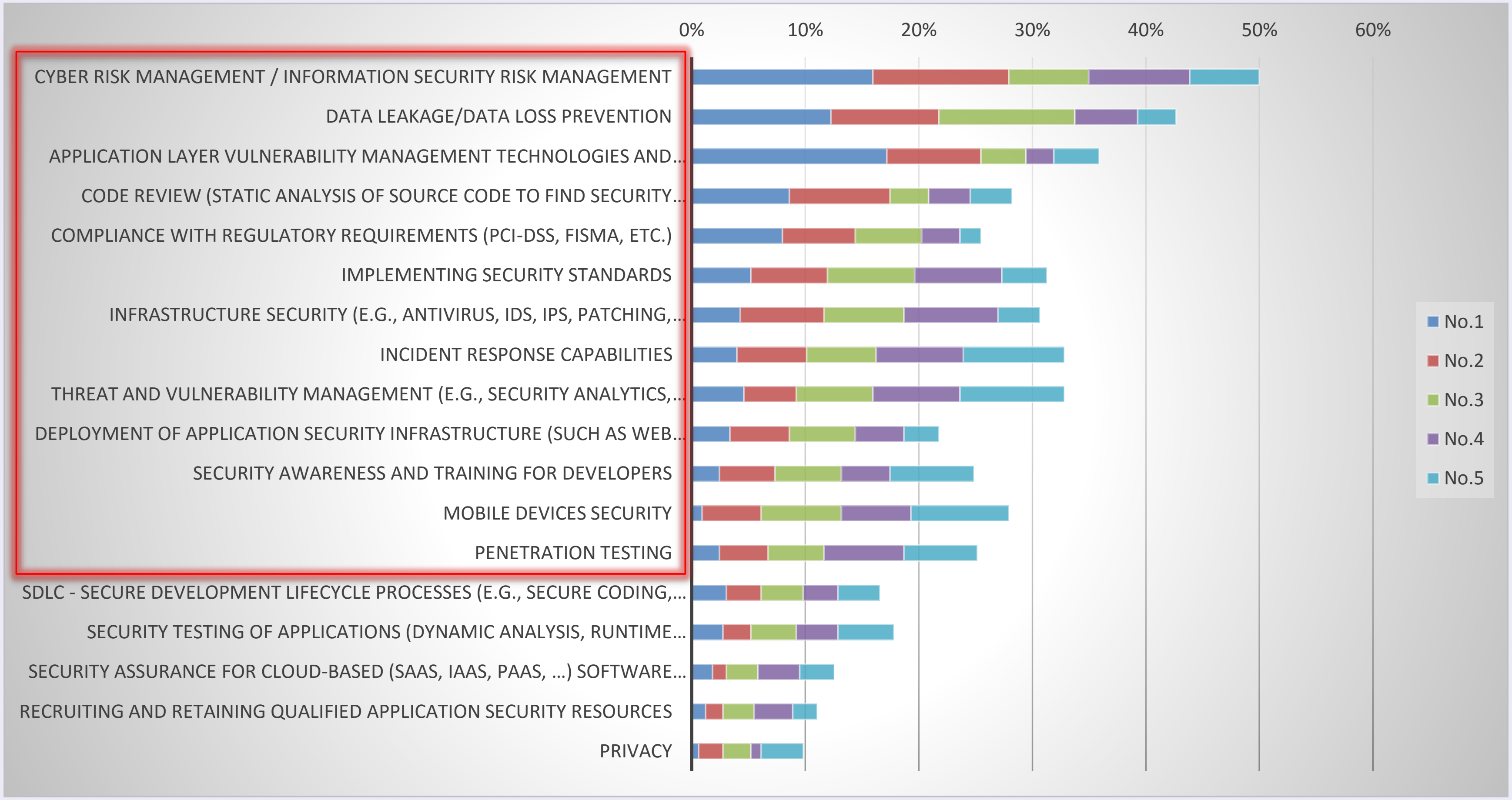

Biggest challenges delivering your organization's application security initiatives

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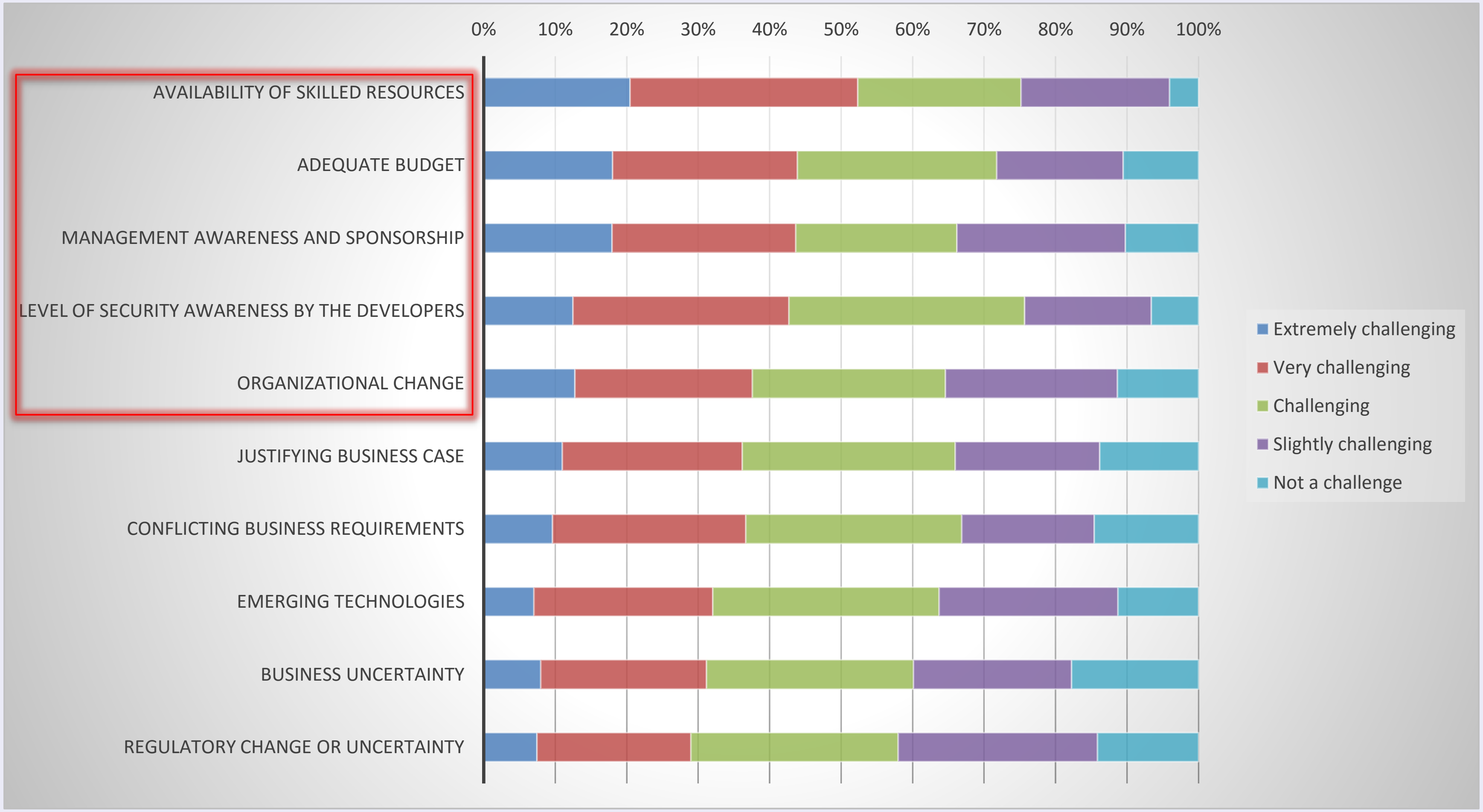

Where you see OWASP can help you

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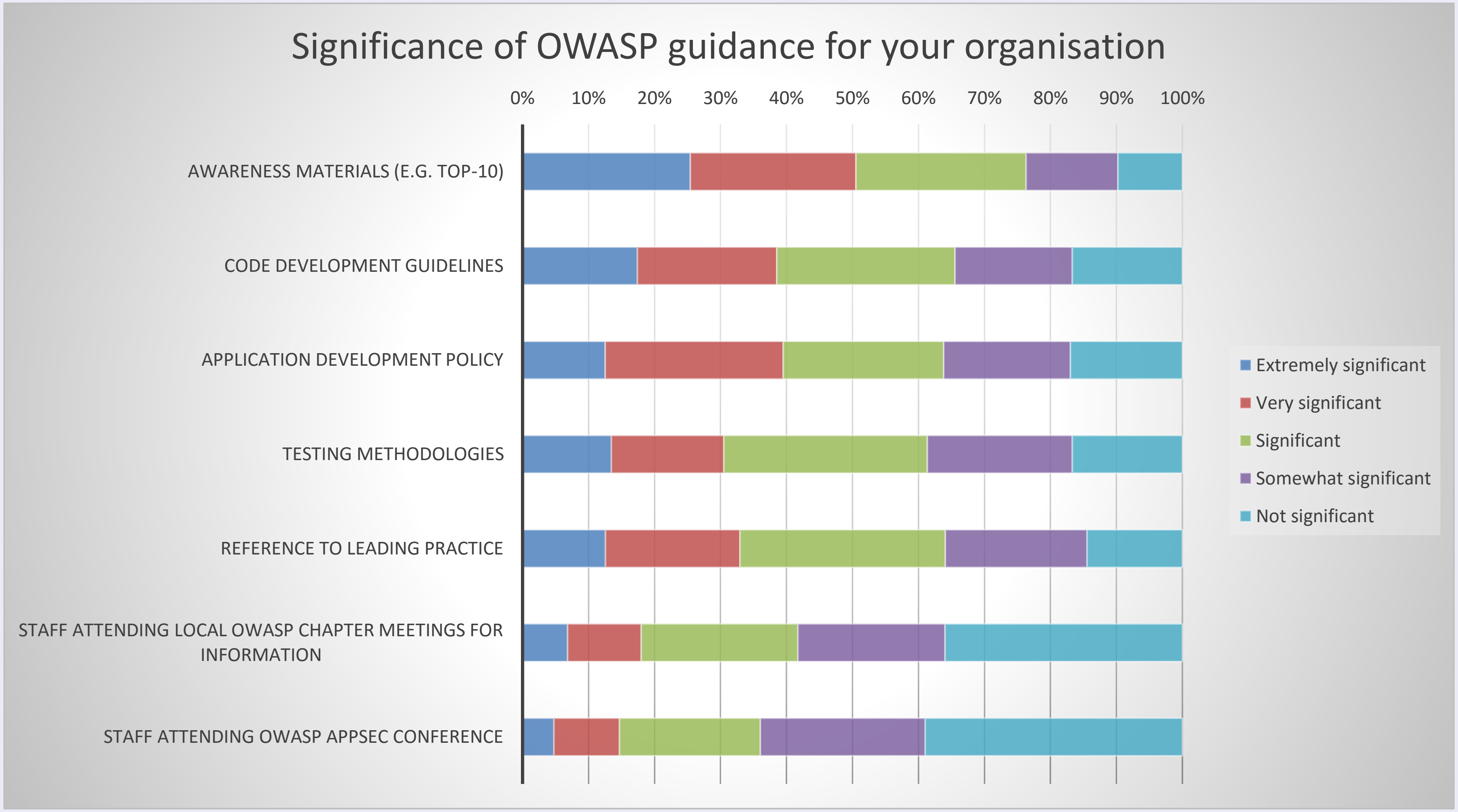

Which OWASP projects people found useful (Top-10)

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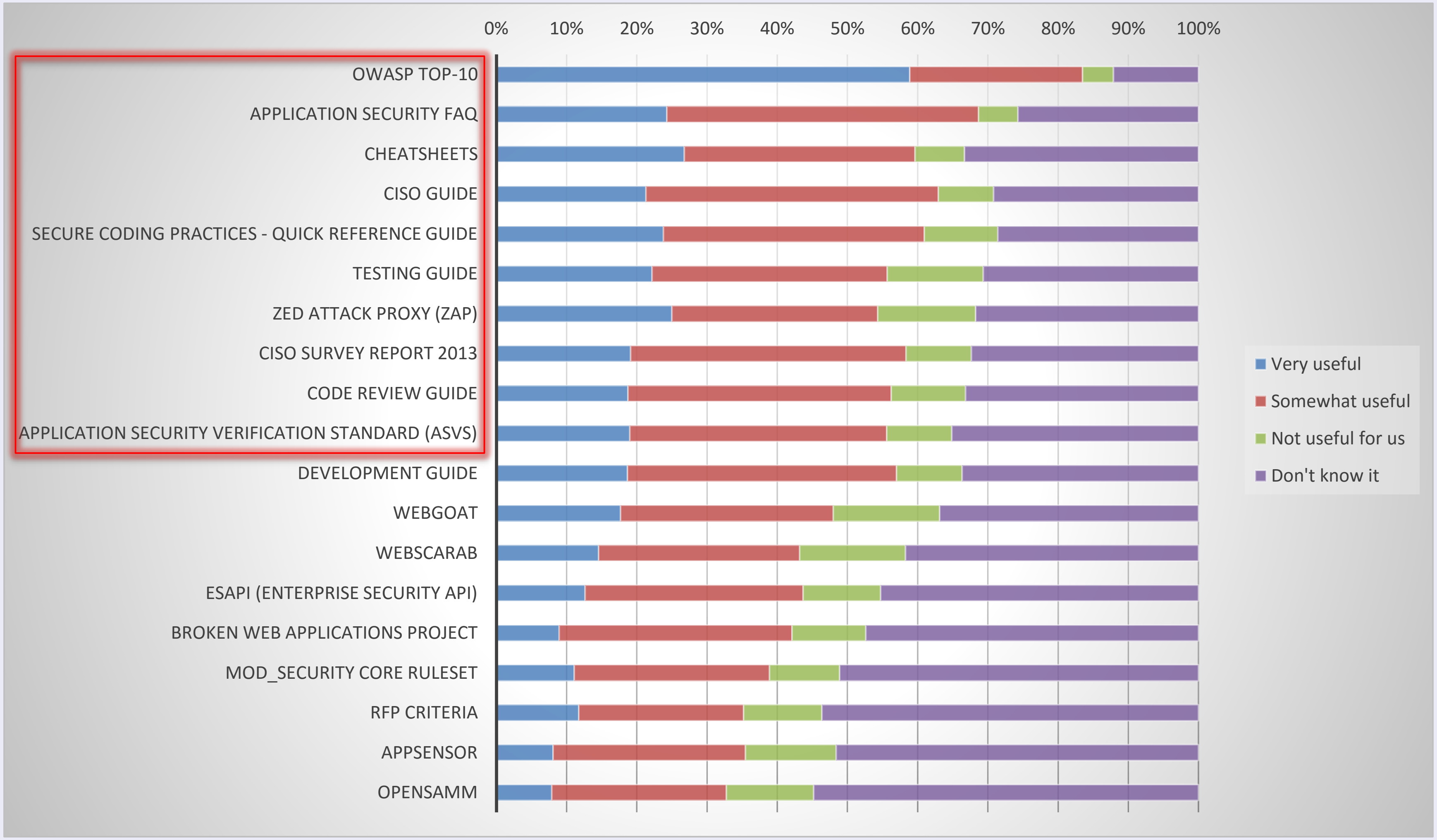

As part of your information security management program, do you…

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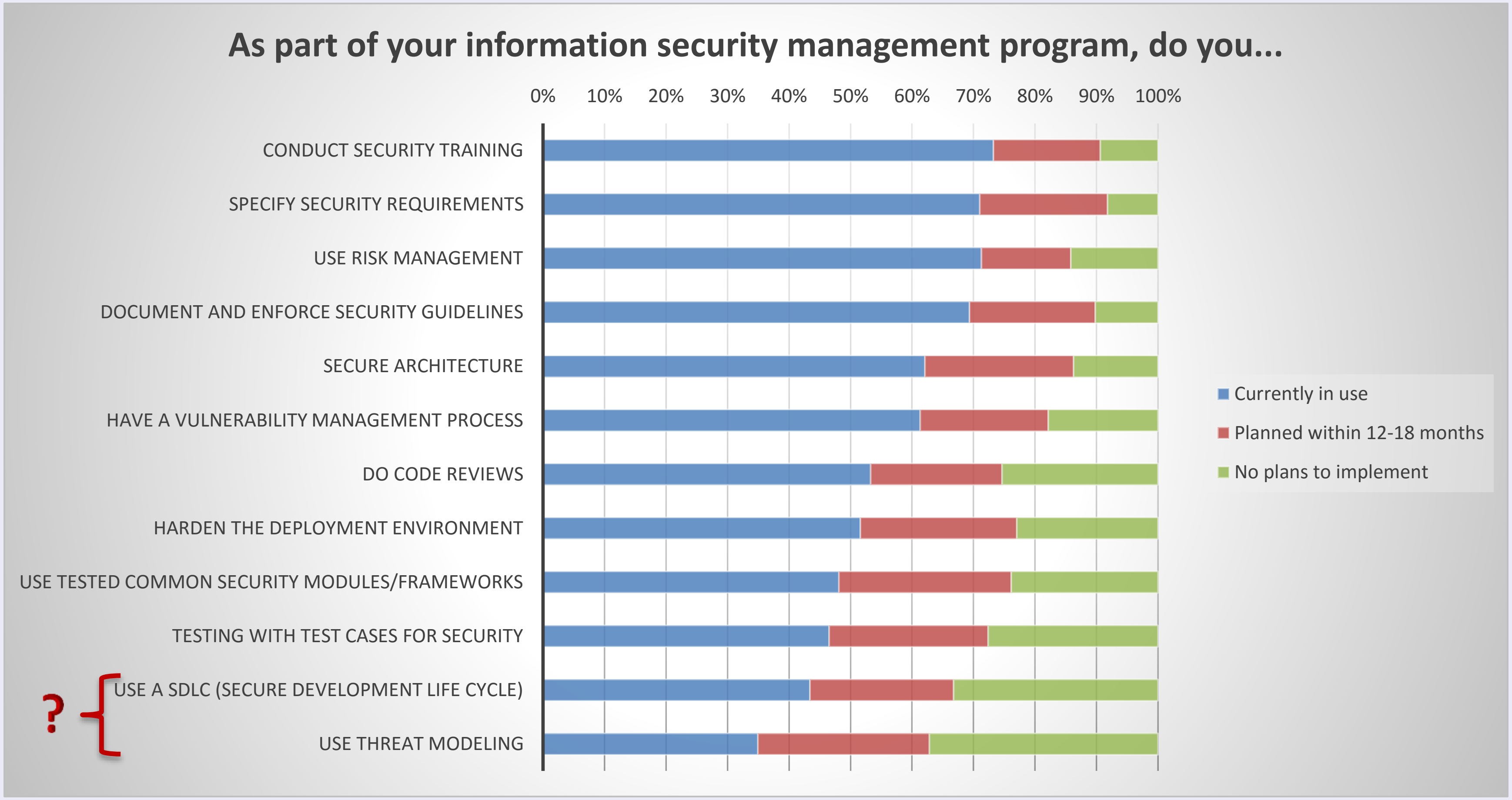

Which technology tools organizations use or are planning to use…

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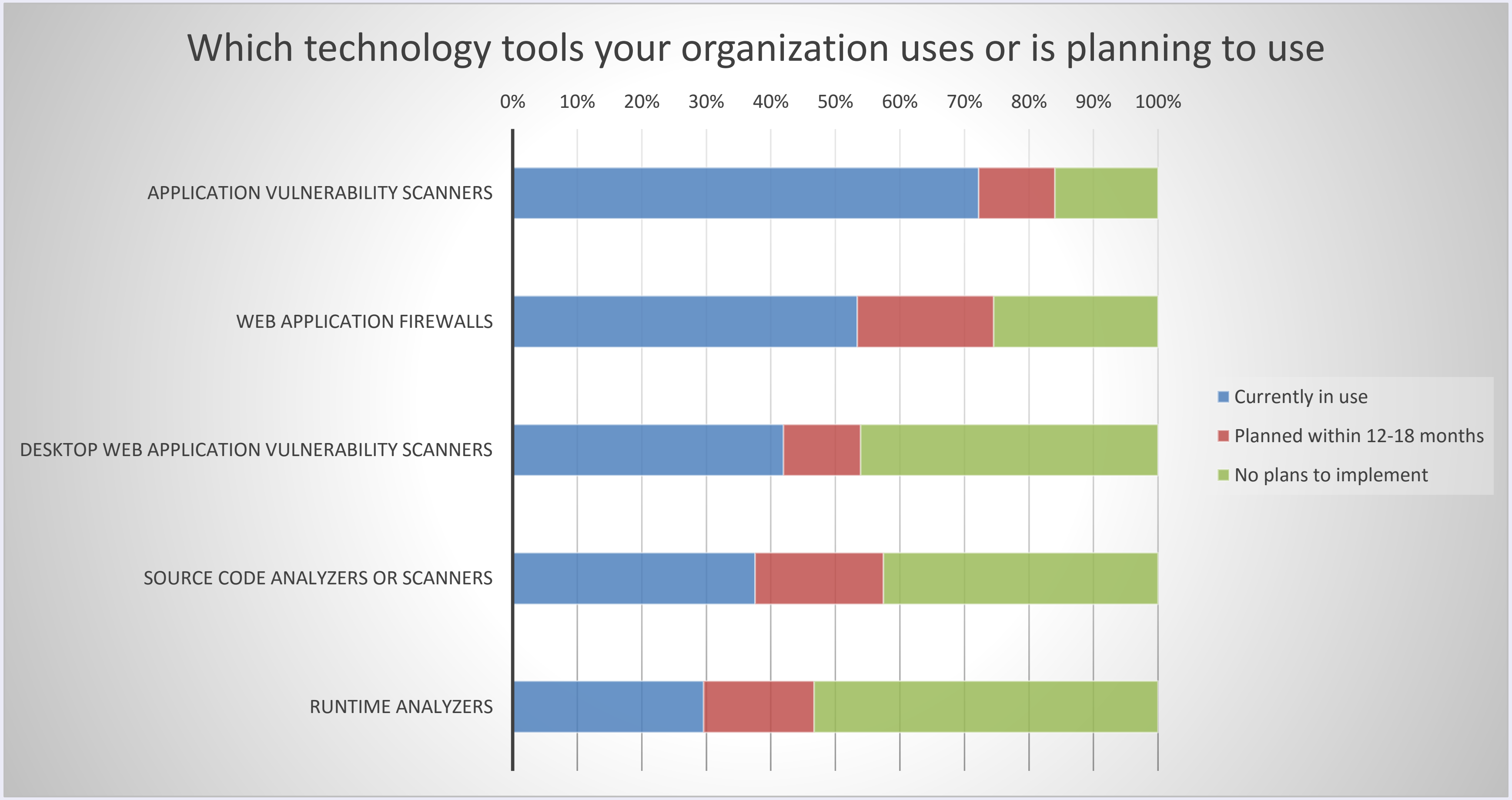

Build Security In, Security Strategy & Maturity Models

Strategy & Planning: board awareness…

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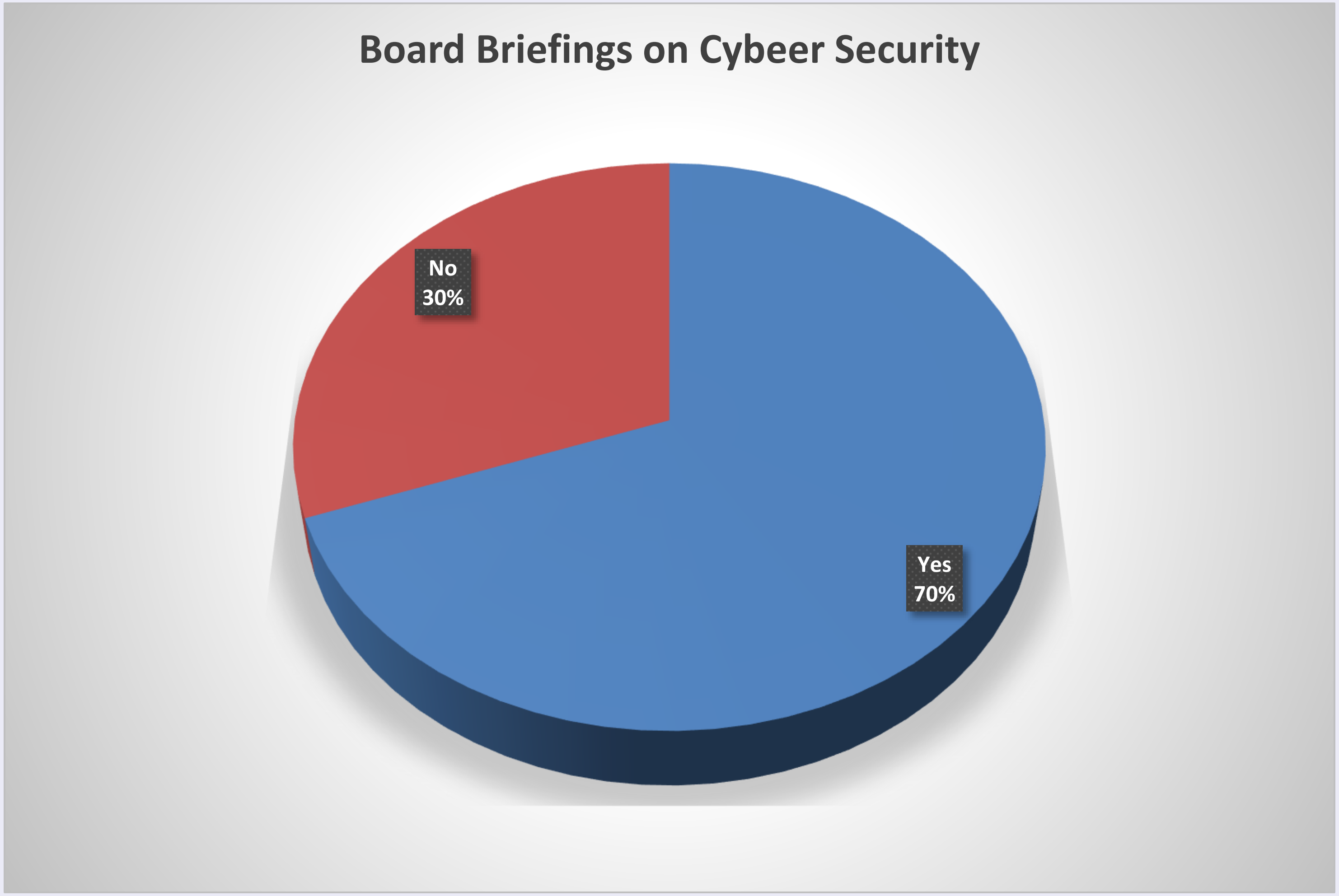

How confident are you that your organization is protected from cyber security risk?

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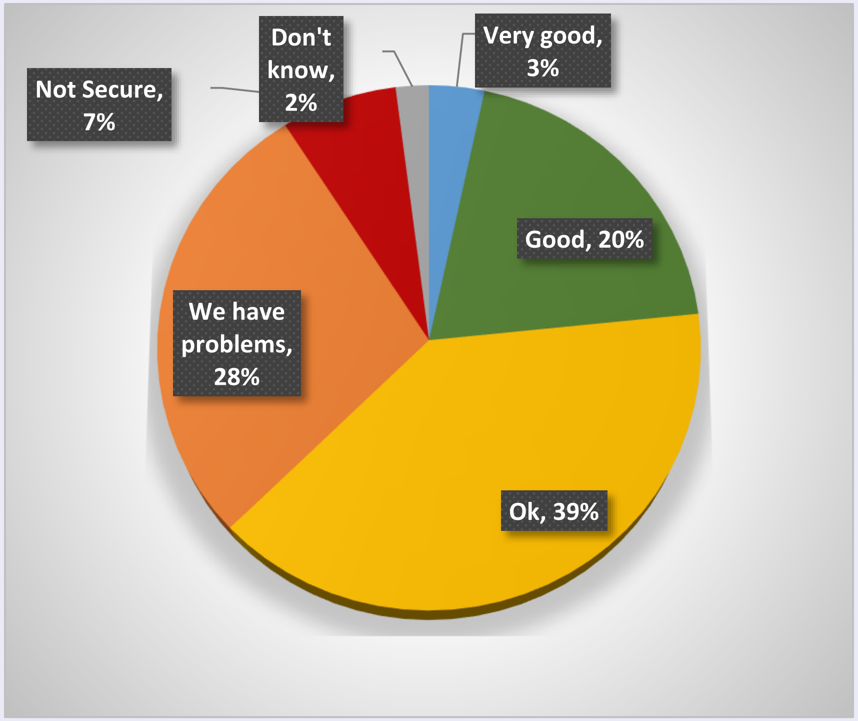

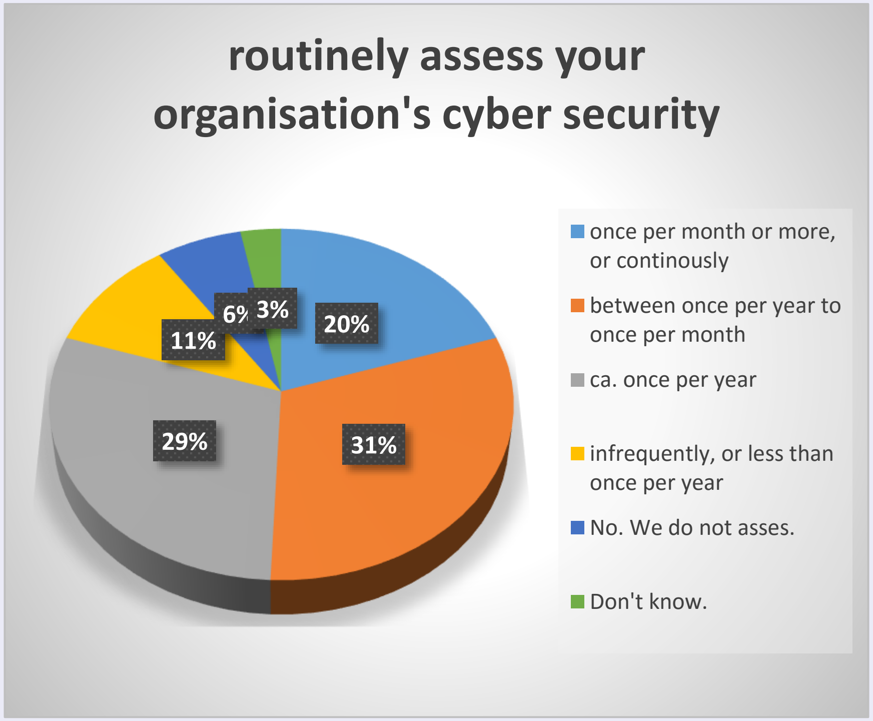

Strategy & Planning

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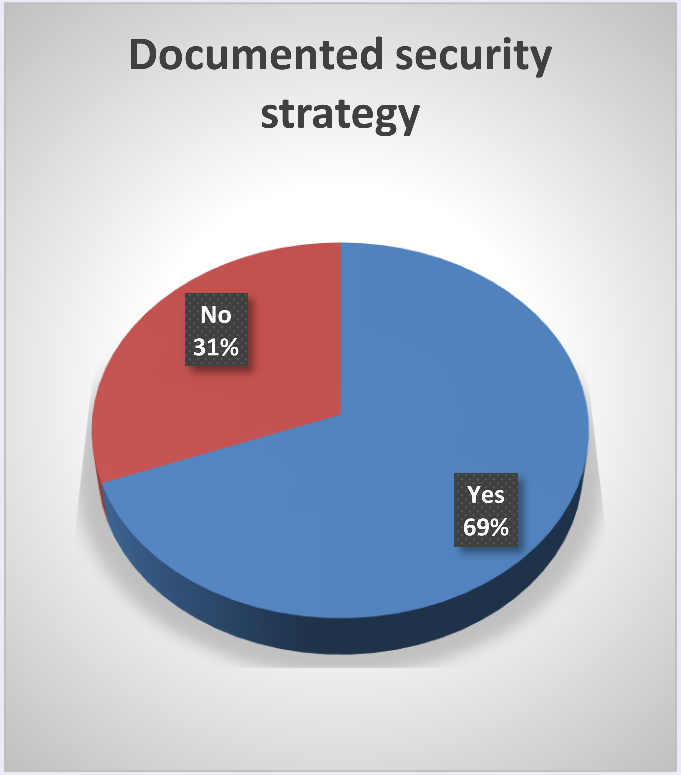

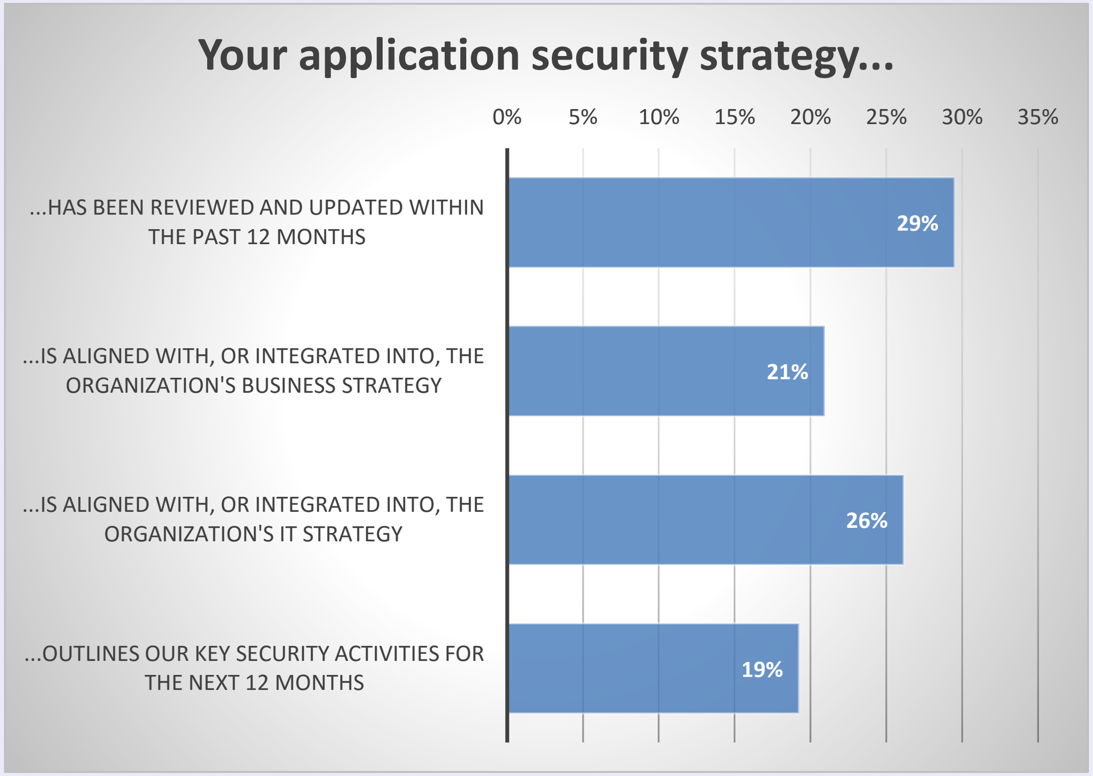

In case you wonder:
We found a medium positive correlation between board briefings and whether you have a security strategy: 0.43

Strategy & Planning

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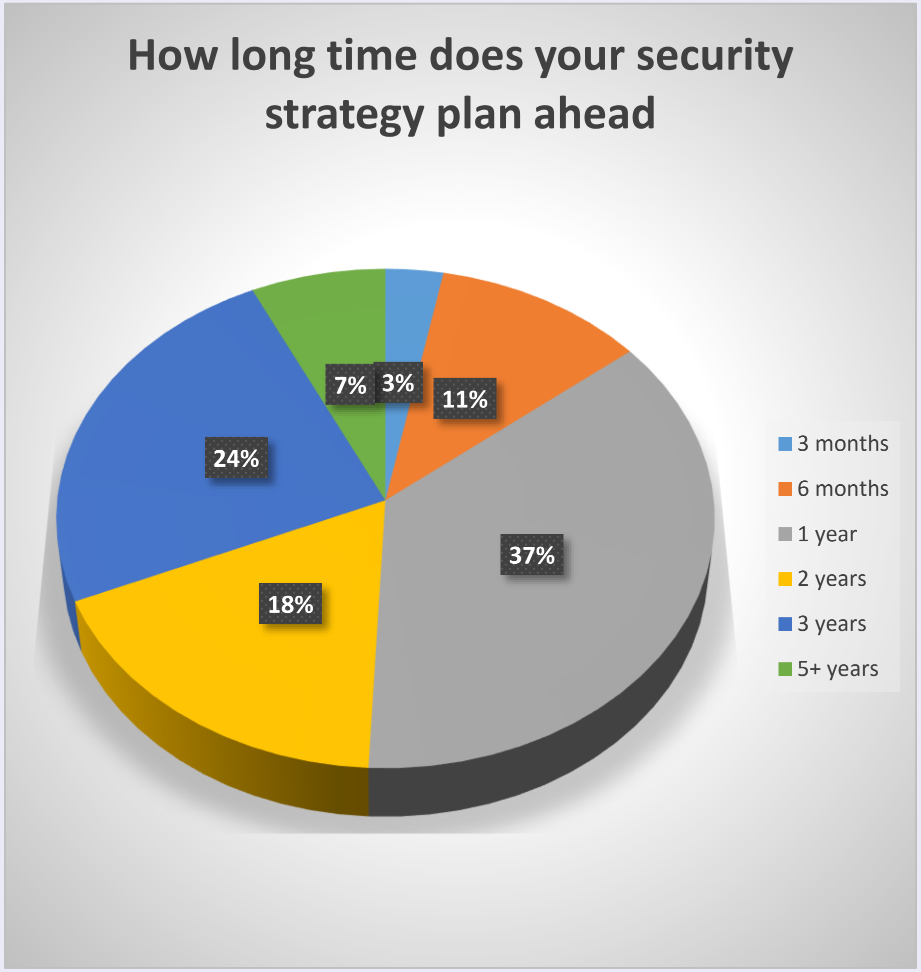

Trends of security strategy planning 2013 -> 2015: longer time horizons

Time Horizon	2013	2015
3 months	9.3%	3%
6 months	9.3%	11%
1 year	**37.0%**	**37%**
2 years	**27.8%**	18%
3 years	11.1%	**24%**
5 years+	5.6%	7%

Security Strategy (findings from 2013): advantages of a 2-year security strategy

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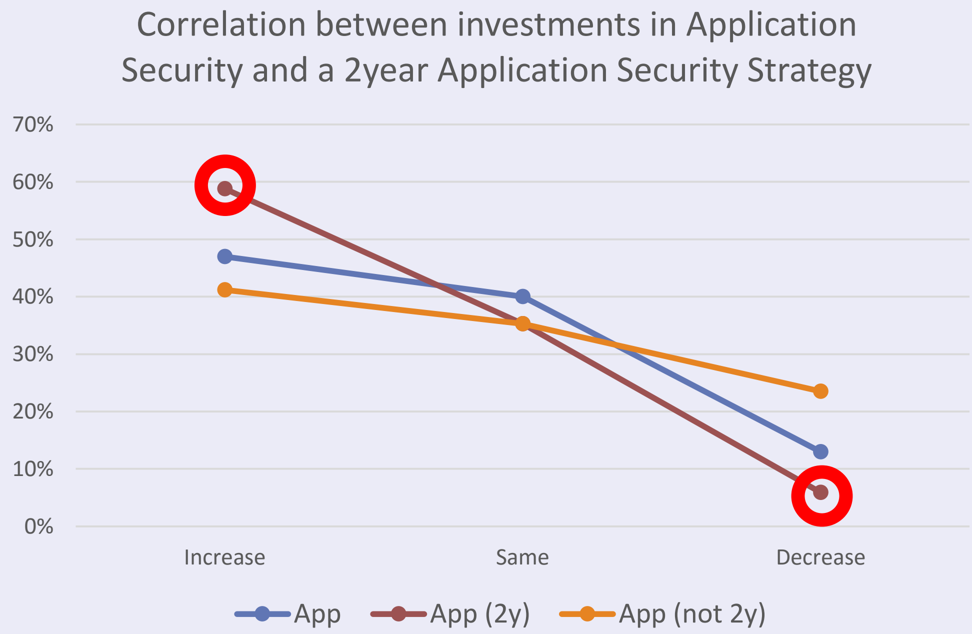
»Benefits of a security strategy for application security investments:



Analysis for correlations with:

- Recent security breach
- Has a ASMS
- Company size
- Role (i.e. CISO)
- Has a Security Strategy
- **Time horizon of security strategy (2 years)**

Strategy & Planning: Usage trends for ASMS and Maturity Models (2015 vs. 2013)

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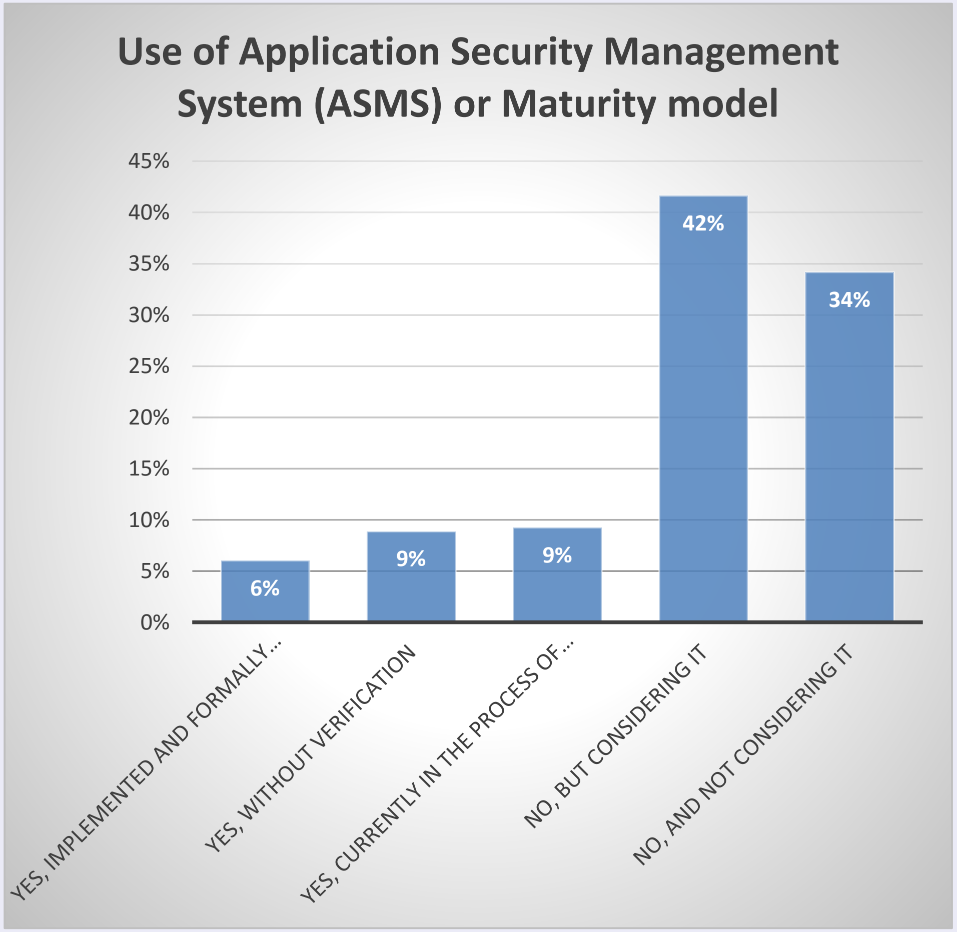

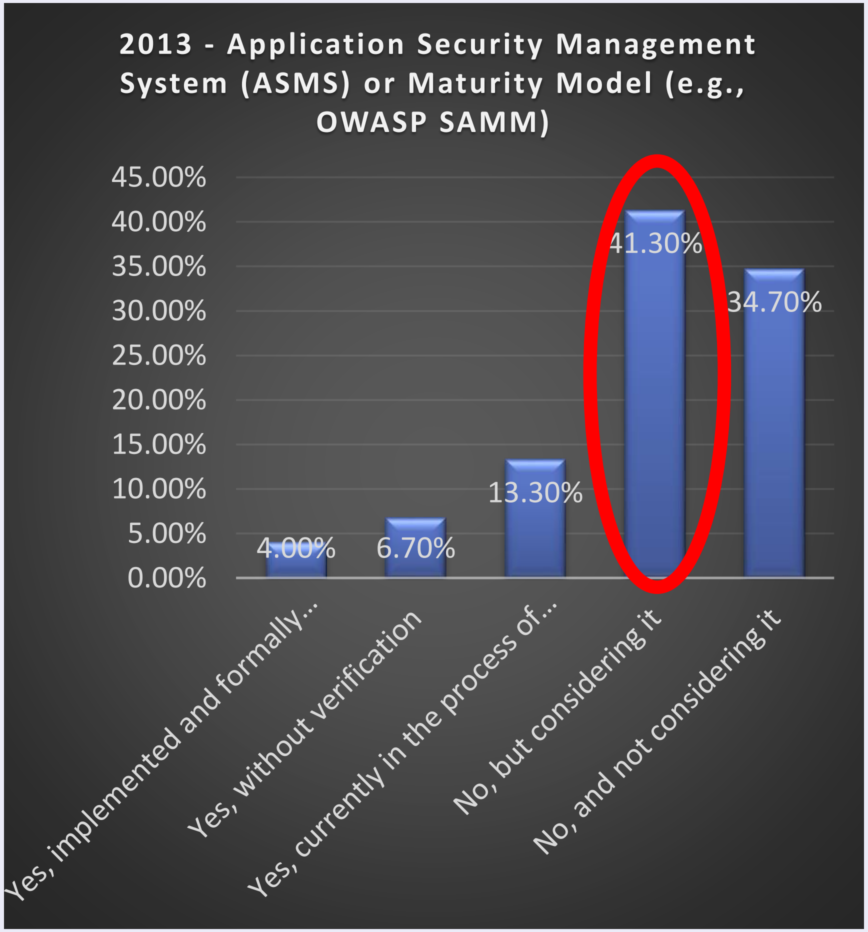

Strategy & Planning: Maturity Model trends compare with 2013

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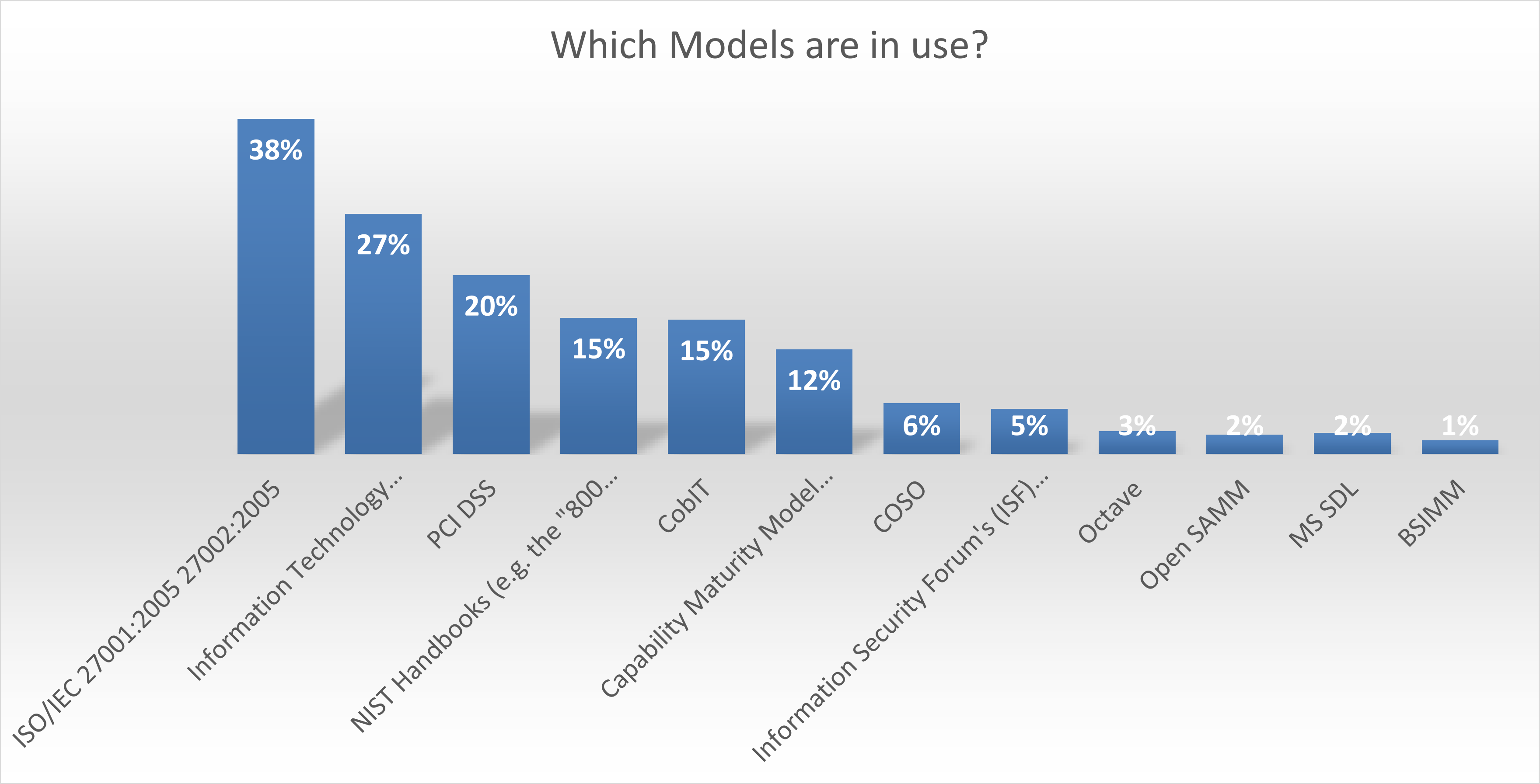

How does your organization assess the quality and effectiveness of application security?

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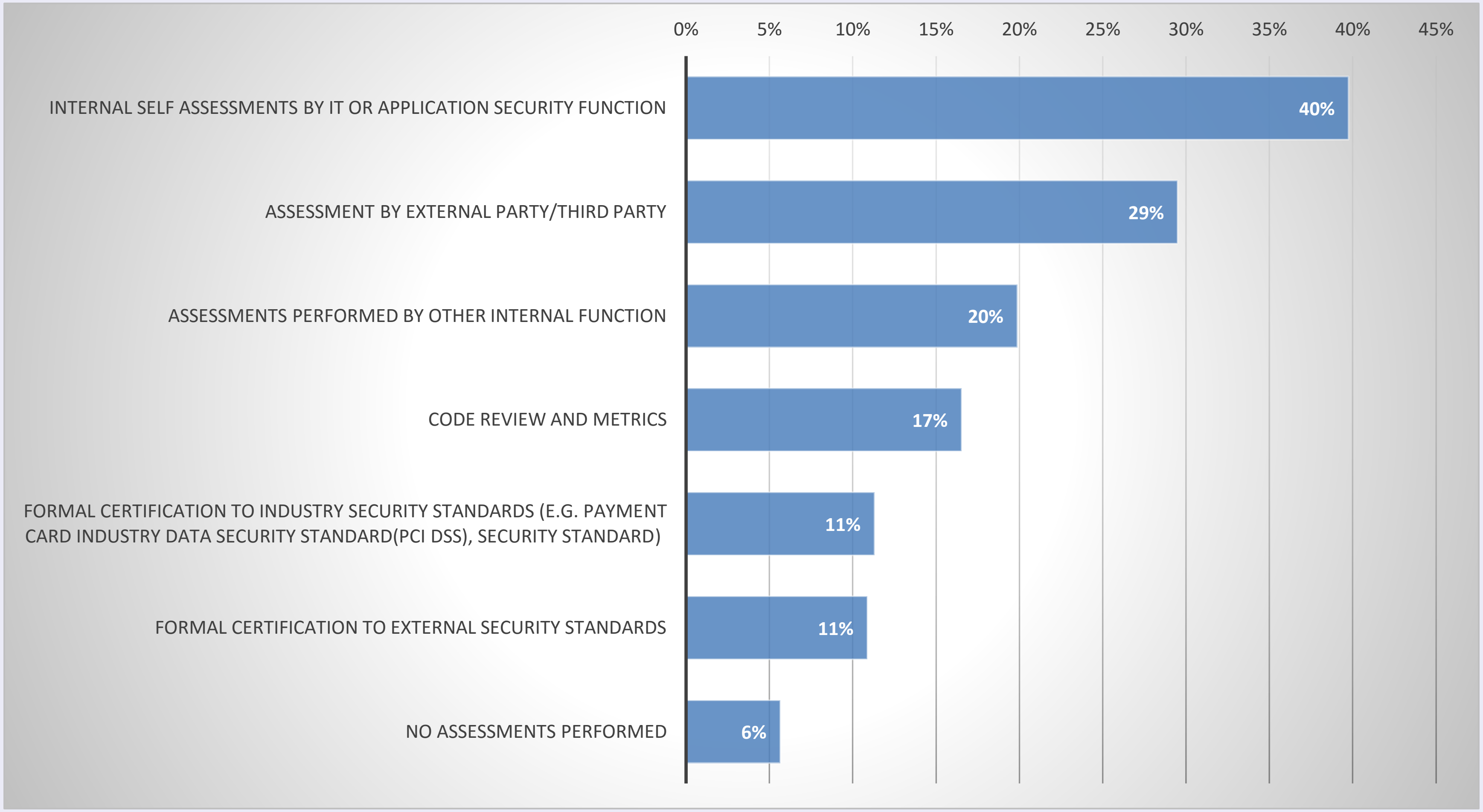

Suppliers & External Partners: How do you verify your external partners…

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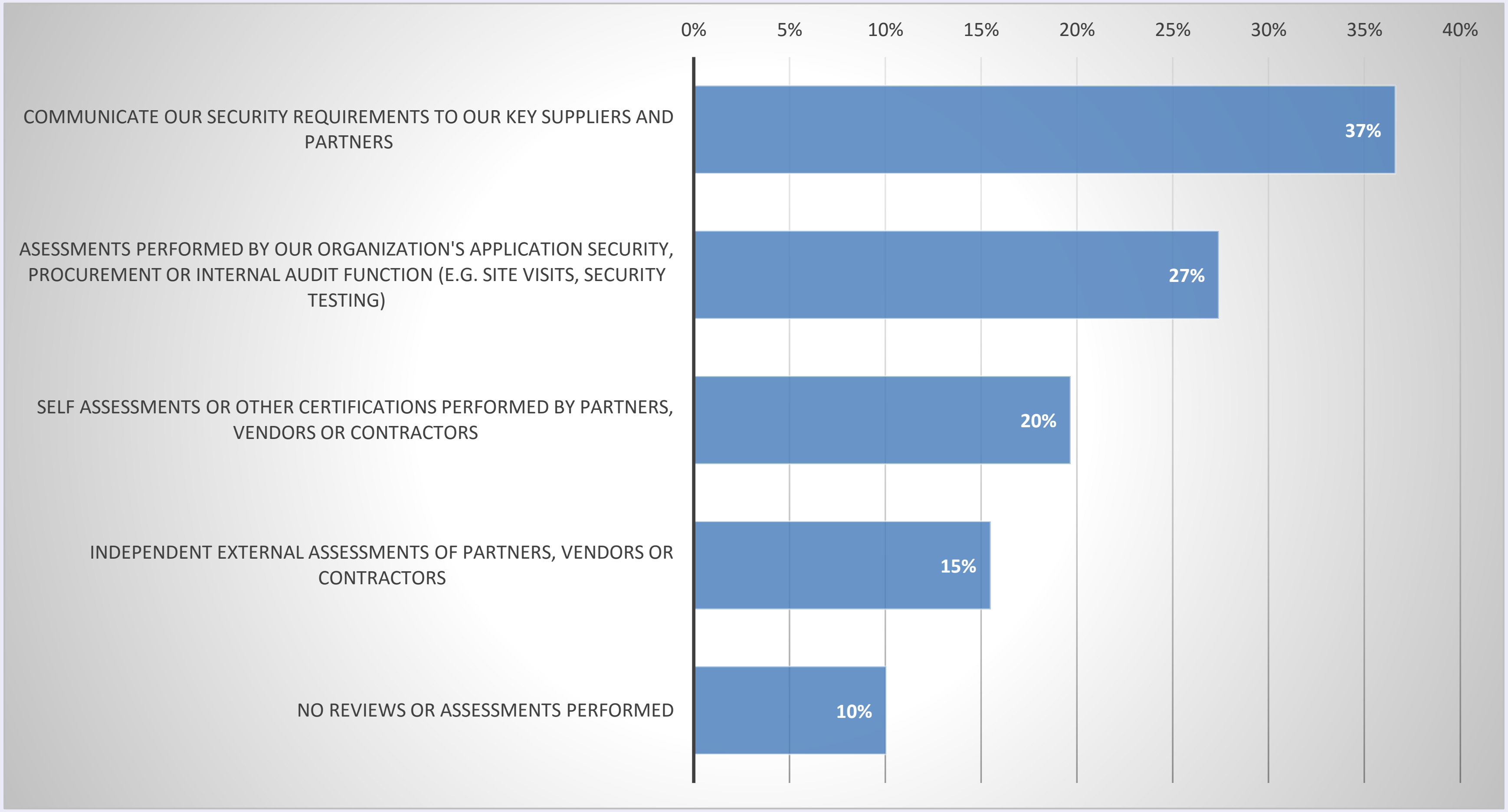

Incident Response

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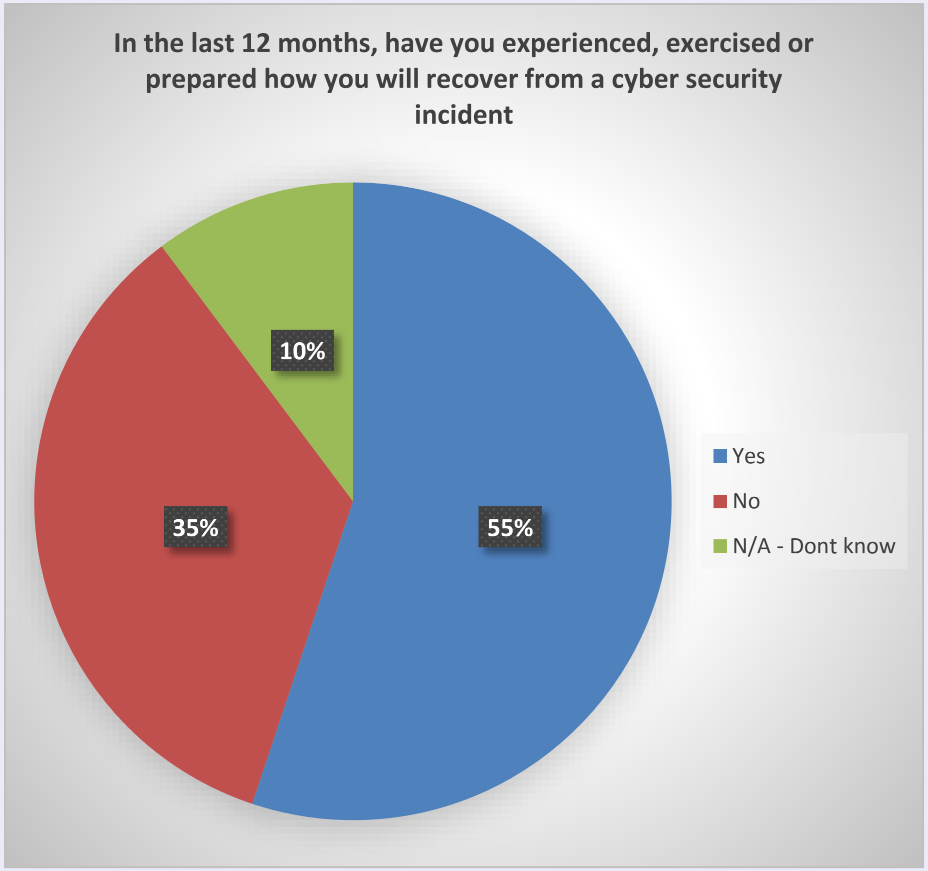

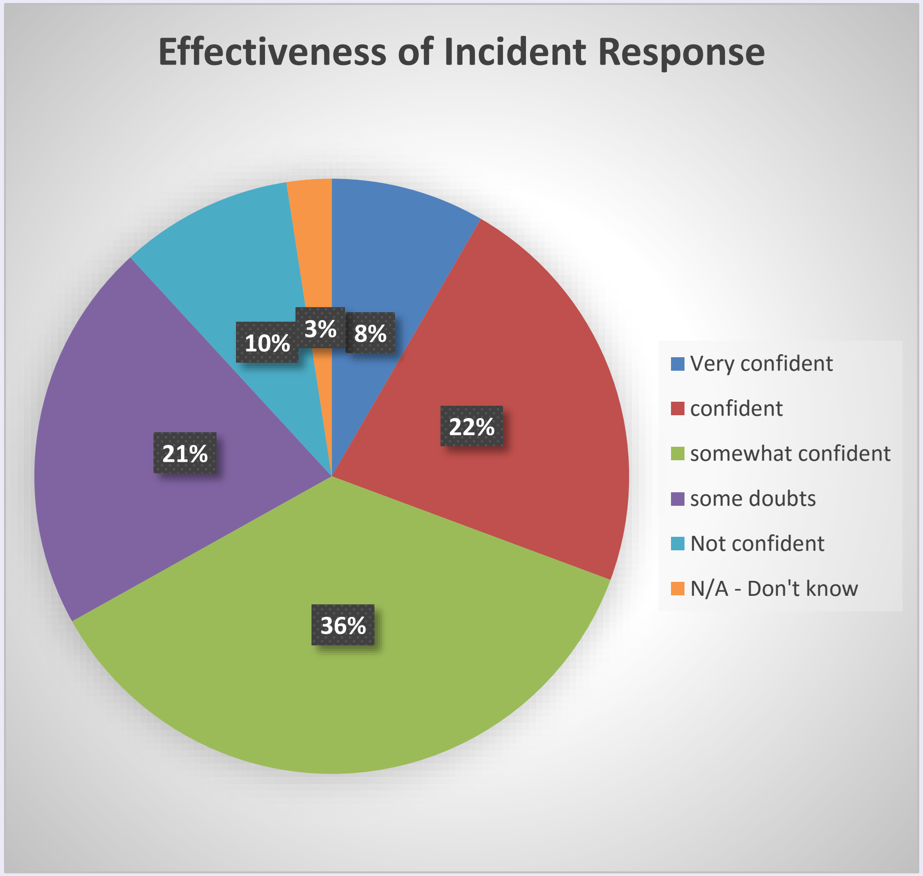

Incident Response (2)

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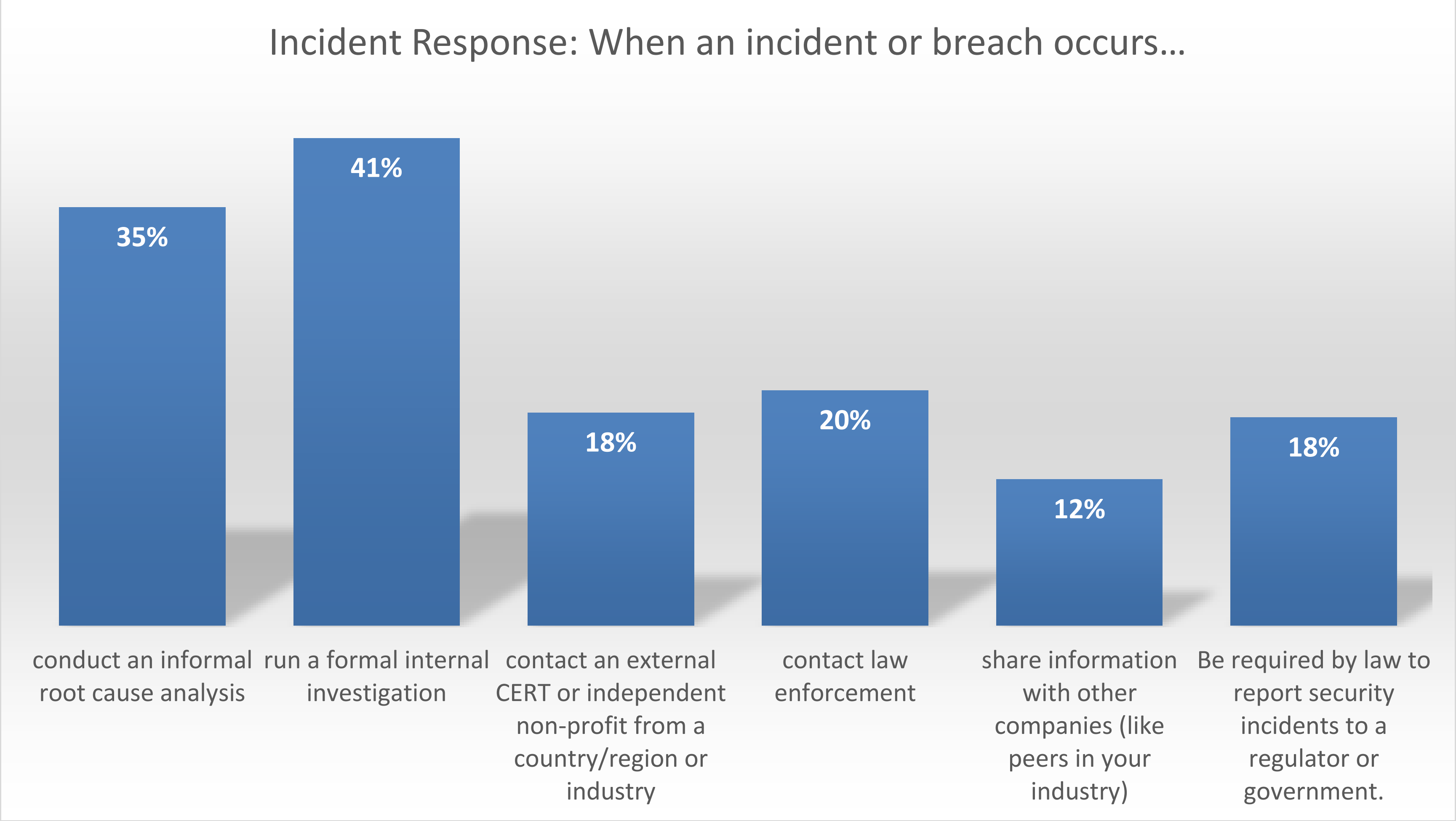

Incident Response: Increase spending after incident?

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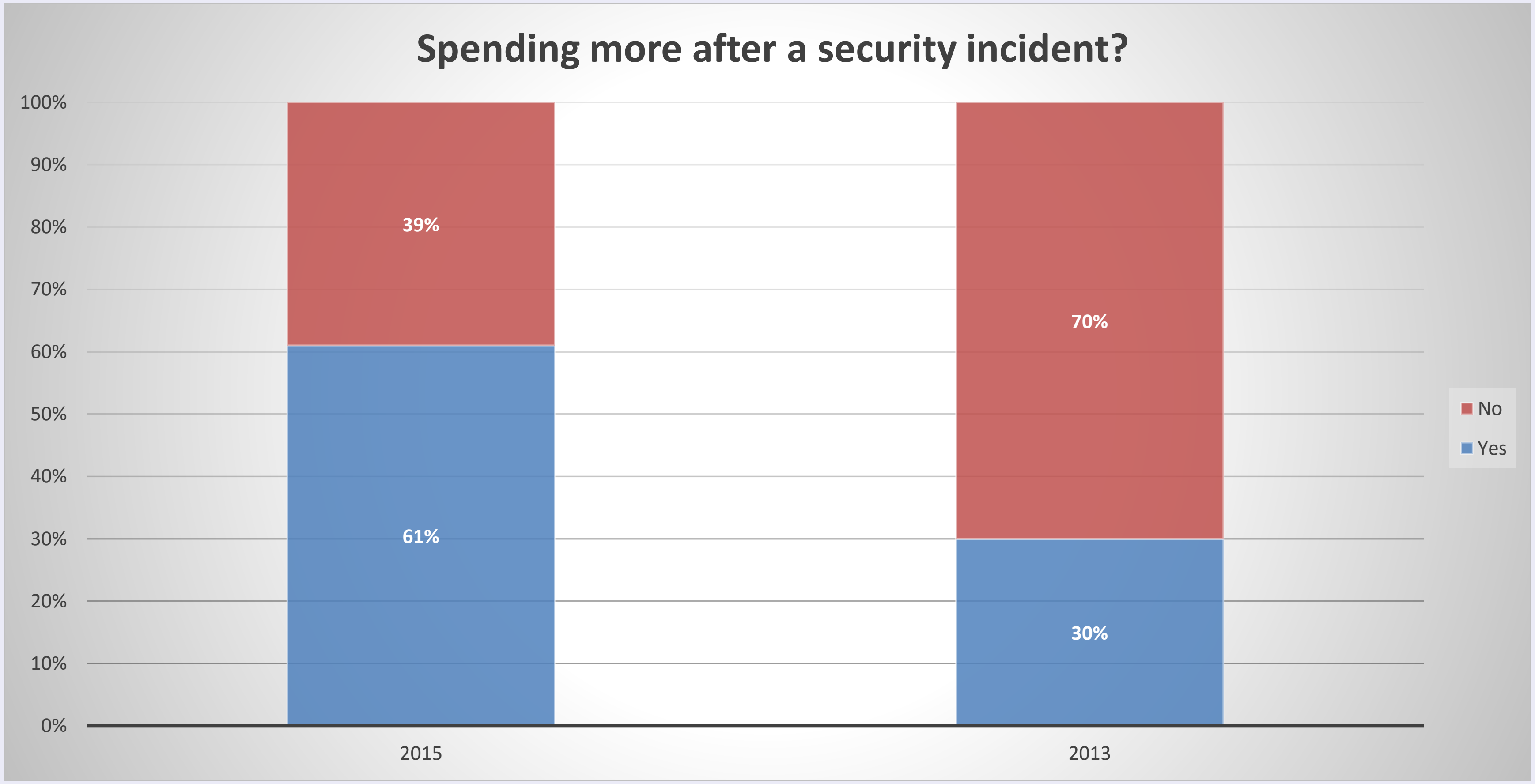

Incident Response: Increase spending after incident?

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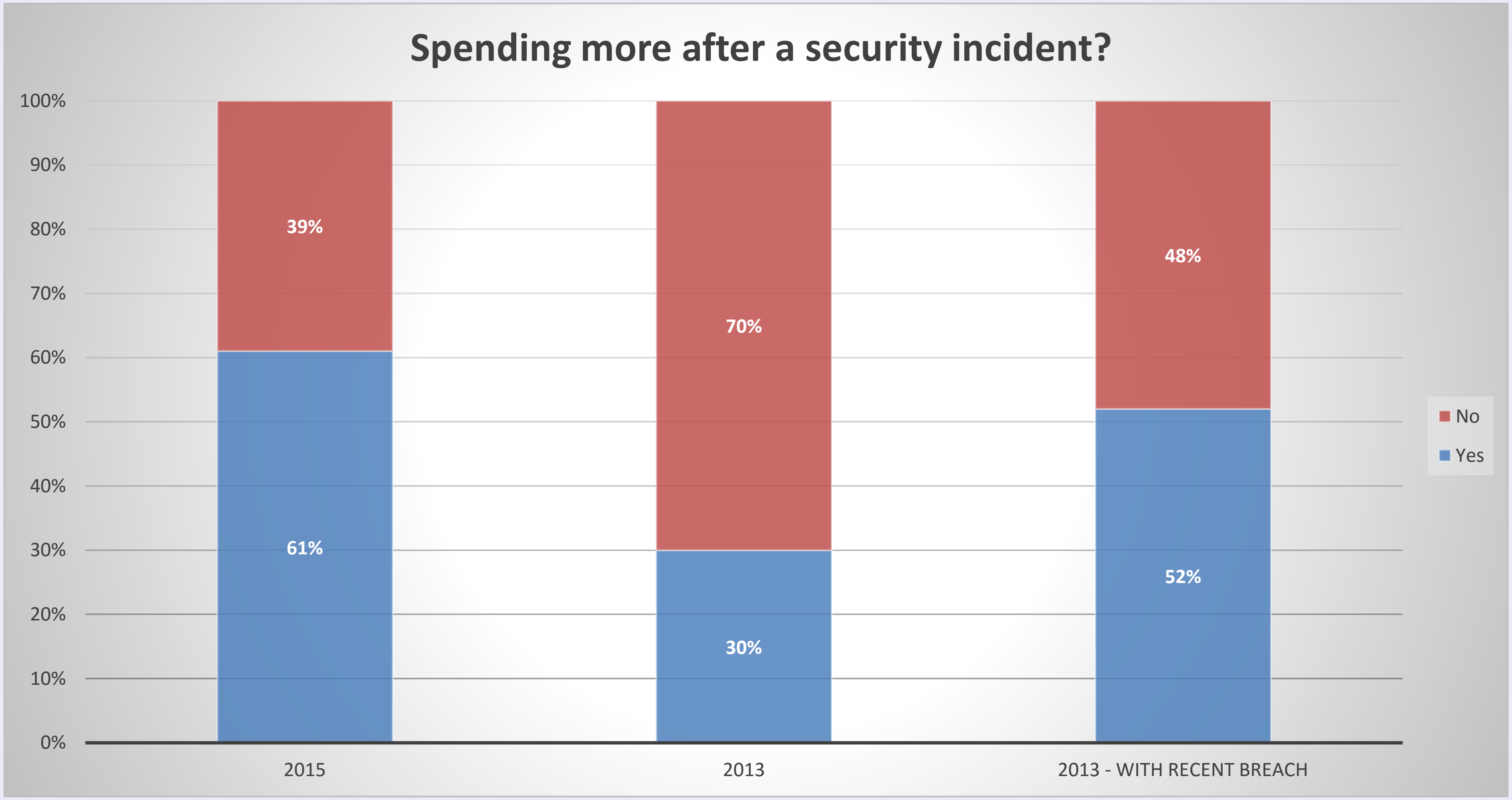

Thank you - Q&A

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Questions & Answers

- *If you like to be notified when the new OWASP CISO Survey Report will be released, leave your card or send an email.*

Thank you