RSAConference2022
San Francisco & Digital | June 6 – 9

TRANSFORM

SESSION ID: **PART3-R06**

State of Cybersecurity 2022: From the Great Resignation to Global Threats

Rob Clyde, CISM, NACD D.C. and Board Fellow

ISACA Board Director and 2018-2019 Chair
Board Director, White Cloud Security and Crypto Quantique
Executive Advisor, ShardSecure, Curtail and Axiomatics

Jenai Marinkovic

vCISO/CTO, Tiro Security
Advisory Board member, Beyond
Executive Director & Founder, GRC for Intelligent Ecosystems (GRCIE)

Disclaimer

Presentations are intended for educational purposes only and do not replace independent professional judgment. Statements of fact and opinions expressed are those of the presenters individually and, unless expressly stated to the contrary, are not the opinion or position of RSA Conference LLC or any other co-sponsors. RSA Conference does not endorse or approve, and assumes no responsibility for, the content, accuracy or completeness of the information presented.

Attendees should note that sessions may be audio- or video-recorded and may be published in various media, including print, audio and video formats without further notice. The presentation template and any media capture are subject to copyright protection.

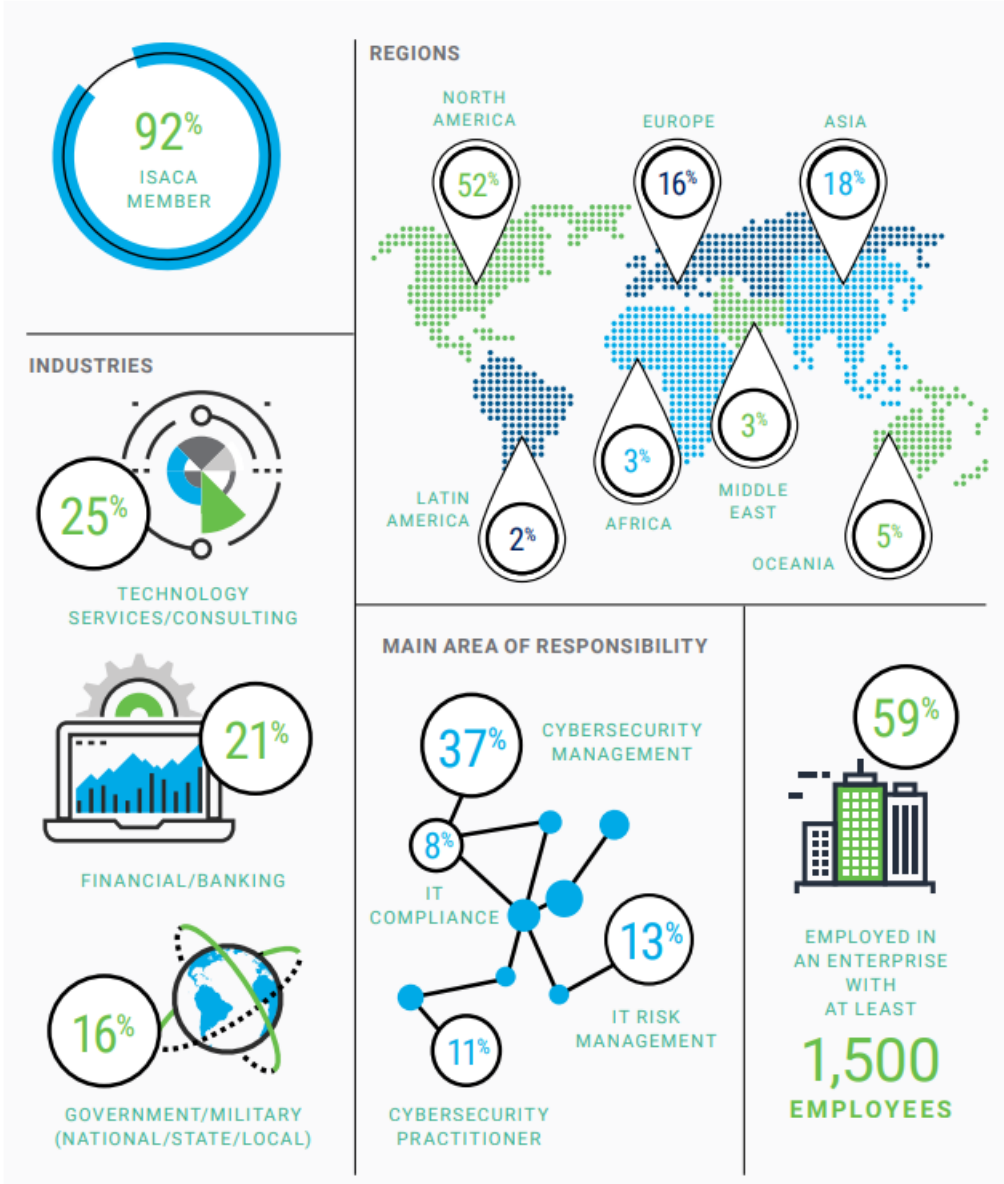
©2022 RSA Conference LLC or its affiliates. The RSA Conference logo and other trademarks are proprietary. All rights reserved.

RSAConference2022

Cyber Workforce Challenges

Research findings from ISACA's State of Cybersecurity 2022 report

About ISACA's State of Cybersecurity 2022 Research



www.isaca.org/state-of-cybersecurity-2022

Unfilled Positions, Understaffed Teams

63% Have unfilled cybersecurity positions
(up 8 points from 2021)

52% Require a university degree for entry-level positions
(down 6 points from 2021)

62% Report that their cyber teams are understaffed
(up 1 point from 2021)

One in five say it takes more than six months to find **qualified** cybersecurity candidates for open positions
(no change from 2021)

www.isaca.org/state-of-cybersecurity-2022

What Does "Qualified" Mean?

73% Prior hands-on cybersecurity experience
(down 1 point from 2021)

25% Hands-on training
(no change from 2021)

36% Credentials
(down 1 point from 2021)

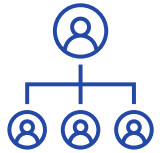
www.isaca.org/state-of-cybersecurity-2022

Why Are Cyber Professionals Leaving?

59% Recruited by another company
(up 1 point from 2021)

48% Poor financial incentives
(up 3 points from 2021)

47% Limited promotion and development opportunities
(no change from 2021)



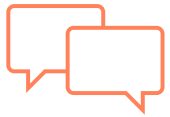
45% High stress levels
(up 3 points from 2021)

34% Lack of management support
(down 3 points from 2021)

www.isaca.org/state-of-cybersecurity-2022

Top 5 Skills Gaps

54% Soft skills
communication, leadership, flexibility – (down 2 points from 2021)

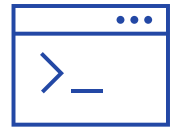


52% Cloud computing
(new in 2022)

34% Security controls
(*down 2 points from 2021)*

33% Coding skills
(up 2 points from 2021)

30% Software development topics
(*down 3 points from 2021)*



www.isaca.org/state-of-cybersecurity-2022

Top 5 Most Important Security Skills
New data for 2022 survey

52% Cloud computing

47% Data protection

46% Identity and Access Management

43% Incidence response

36% DevSecOps

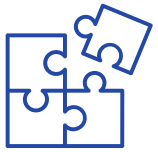
www.isaca.org/state-of-cybersecurity-2022

Top 5 Most Important Soft Skills
New data for 2022 survey

57% Communication
listening, speaking skills

56% Critical thinking

49% Problem solving



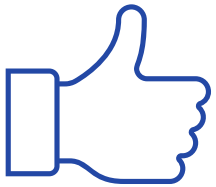
44% Teamwork
collaboration, cooperation

38% Attention to detail

www.isaca.org/state-of-cybersecurity-2022

Least Important Soft Skills (?!)

13% Empathy



16% Honesty

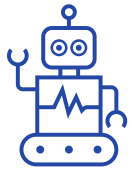
www.isaca.org/state-of-cybersecurity-2022

Decreasing Technical Skills Gaps

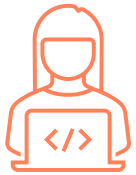
45% Training non-security staff to move into new roles
(up 2 points from 2021)

42% Contractors & consultants
(up 5 points from 2021)

25% AI & automation
(up 3 points from 2021)



22% Performance-based training
(no change from 2021)



21% Reskilling
(down 2 points from 2021)

www.isaca.org/state-of-cybersecurity-2022

Decreasing Soft Skills Gaps
New data for 2022 survey

55% Online learning

45% Mentoring

42% Corporate training

42% Tuition reimbursement

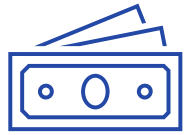
17% Nothing

www.isaca.org/state-of-cybersecurity-2022

Cybersecurity Budgets

42% My cybersecurity budget is appropriately funded

(up 5 points from 2021)



55% I expect my cybersecurity budget to increase next year

(up 3 points from 2021)

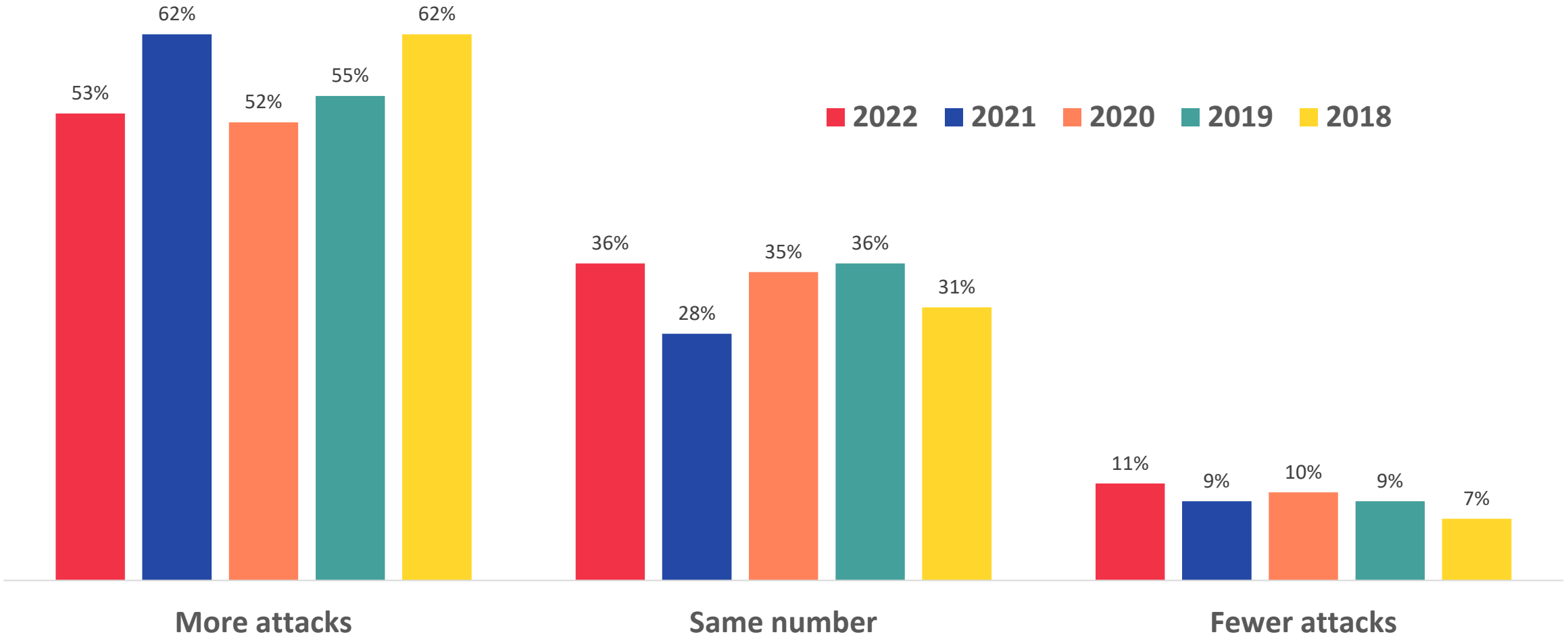
www.isaca.org/state-of-cybersecurity-2022

RSAConference2022

Cyber Threat Landscape

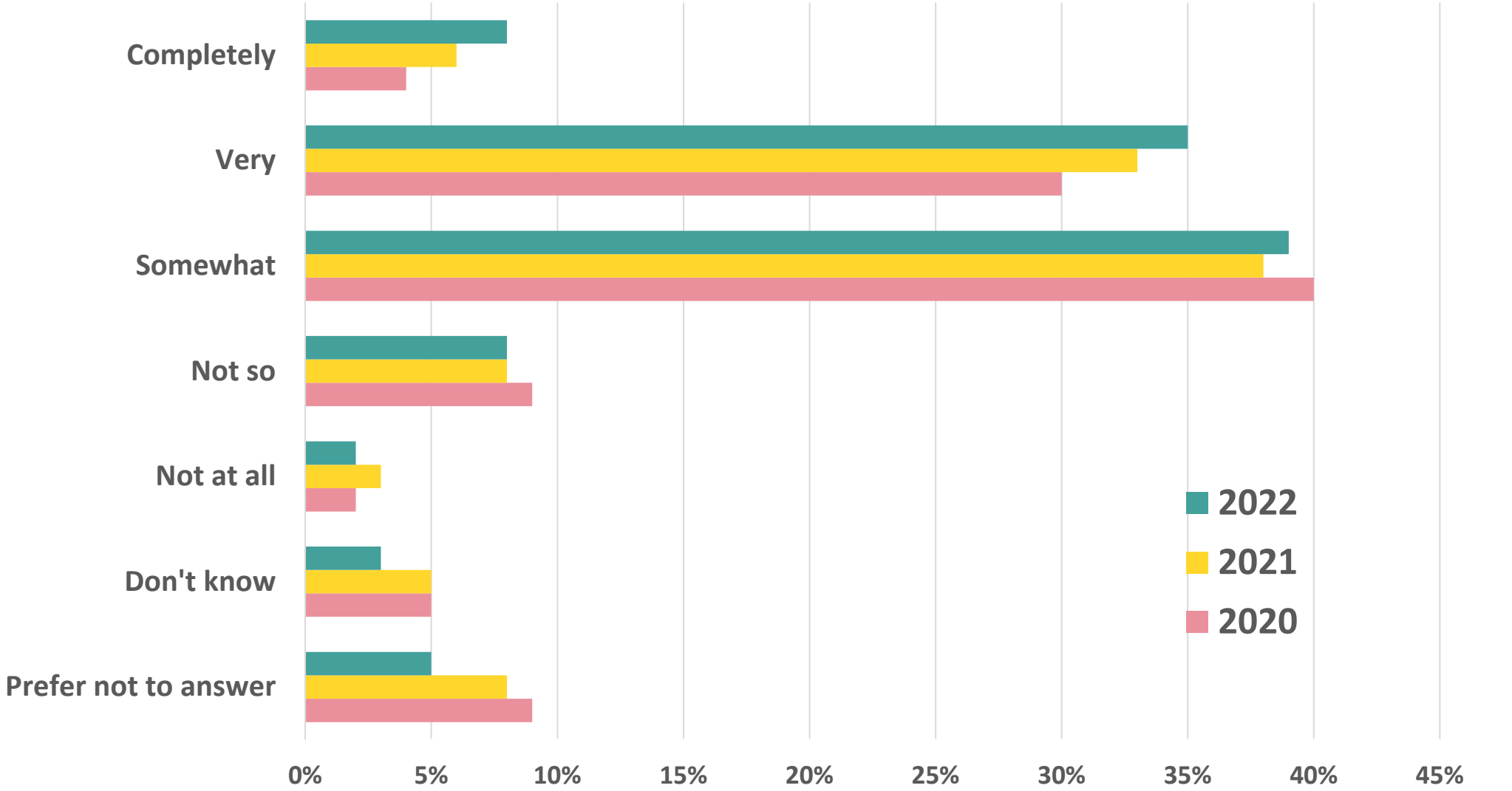
Research findings from ISACA's State of Cybersecurity 2022 report

Year-Over-Year Comparison of Cyber Attack Reporting

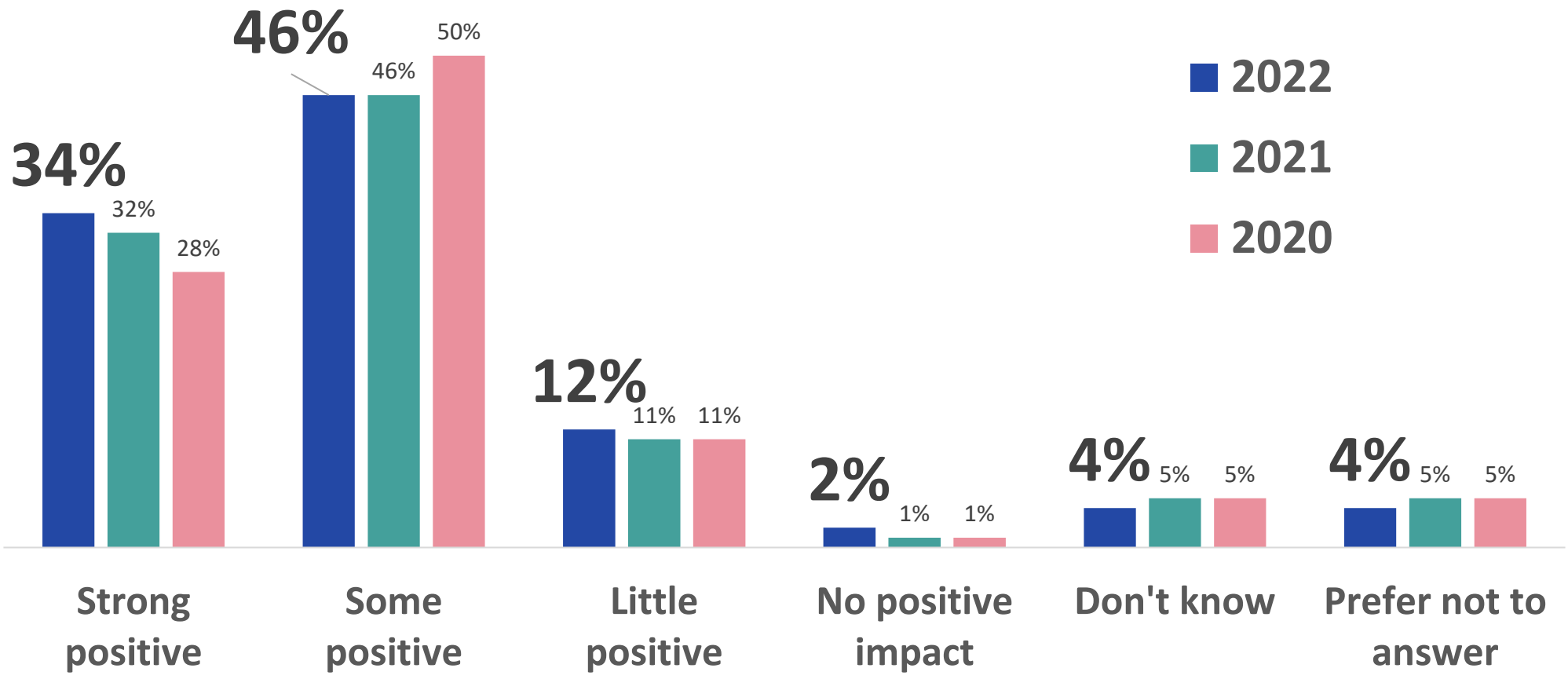


www.isaca.org/state-of-cybersecurity-2022

How confident are you in your cyber team's ability to detect and respond to threats?



What impact has cyber awareness training had at your organization?



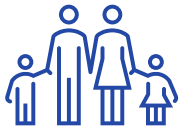
www.isaca.org/state-of-cybersecurity-2022

Top 5 Organizational Cybersecurity Concerns

79% Organization's reputation
(down 1 point from 2021)

33% Loss of trade secrets
(up 1 point from 2021)

70% Customer harm from data breach
(up 1 point from 2021)



30% Organization's stock price, finances
(up 2 points from 2021)

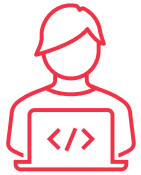
49% Supply chain attack, business disruption
(down 5 points from 2021)

New ISACA research:
www.isaca.org/supply-chain-security

Top 5 Threat Actors That Impacted Your Organization in the Last Year

25% Cybercriminals
(up 2 points from 2021)

18% Hackers
(up 1 point from 2021)



11% Malicious insiders
(up 1 point from 2021)

11% Nation/state
(up 2 points from 2021)

8% Non-malicious insiders
(no change from 2021)

www.isaca.org/state-of-cybersecurity-2022

Top 5 Attack Types That Impacted Your Organization in the Last Year

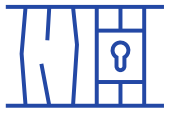
13% Social engineering
(down 1 point from 2021)

12% Advanced Persistent Threats
(up 2 points from 2021)

10% Security misconfiguration
(up 2 points from 2021)

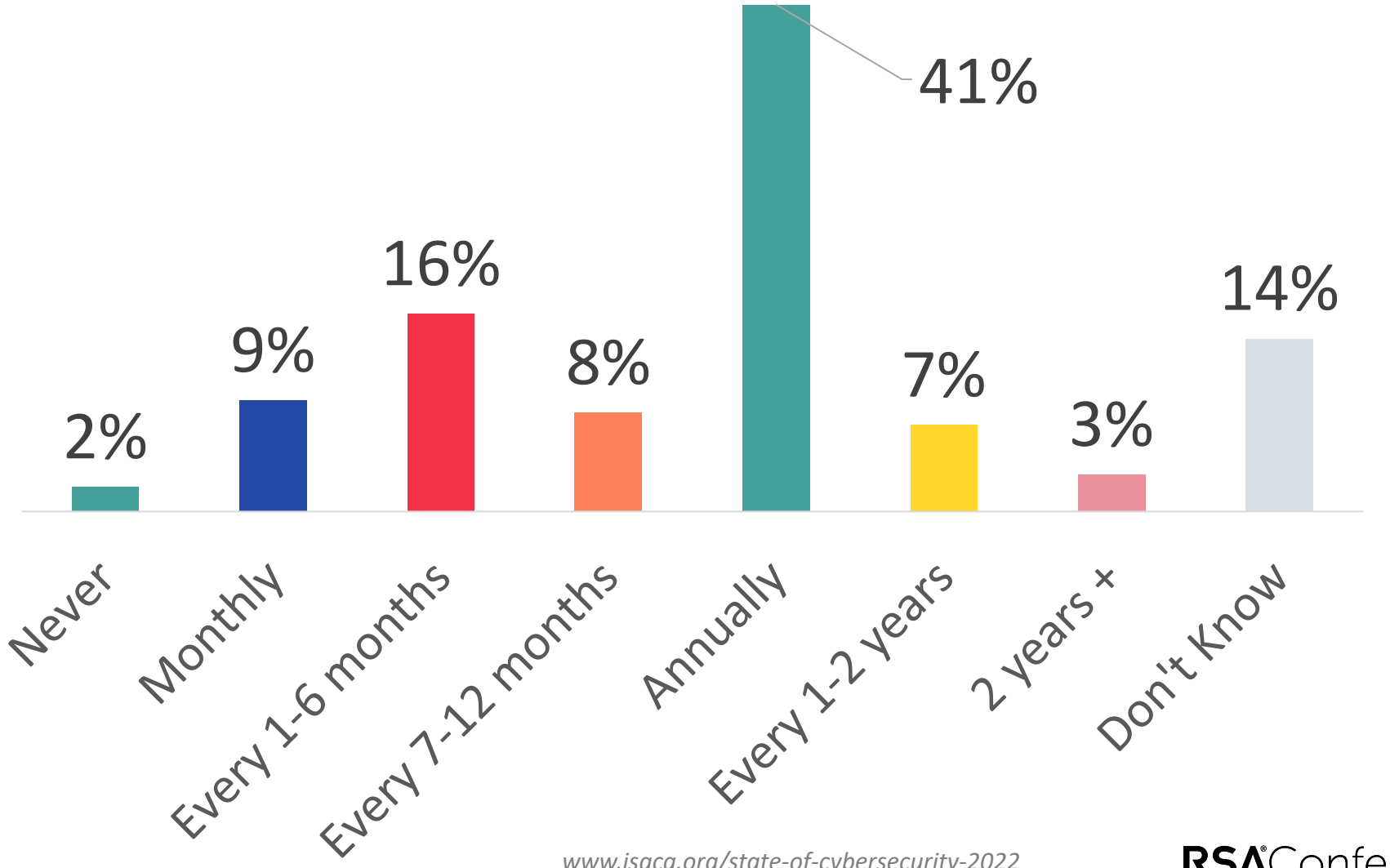
10% Ransomware
(up 1 point from 2021)

9% Unpatched system
(no change from 2021)

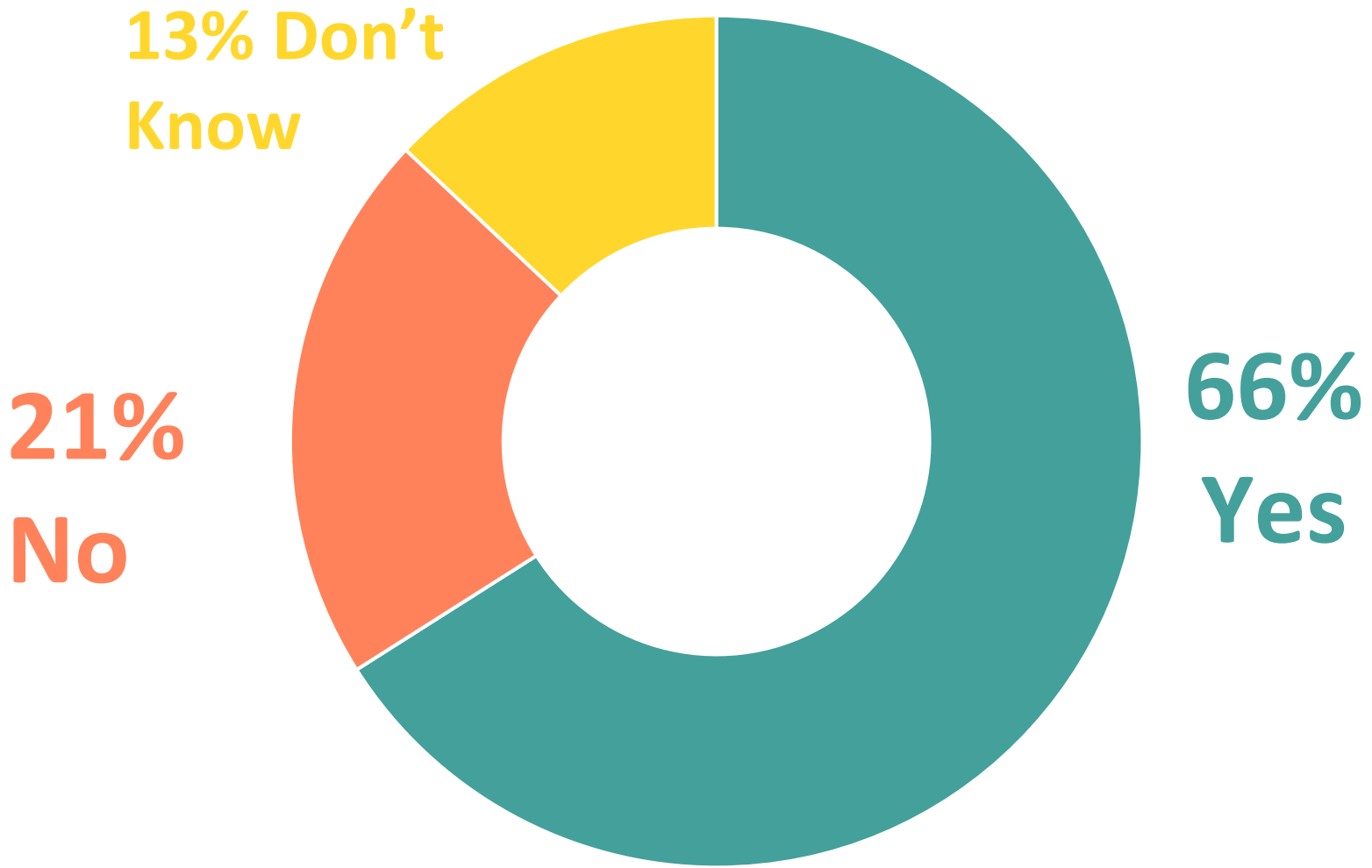


www.isaca.org/state-of-cybersecurity-2022

How Often Does Your Organization Do a Cyberrisk Assessment? *New data for 2022 survey*



Does Your Organization Currently Assess its Cybermaturity? *New data for 2022 survey*

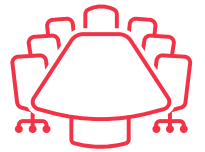


Top 5 Obstacles to Completing a Cyberrisk Assessment *New data for 2022 survey*

43% Time commitment

40% Not enough staff to complete assessment

21% Lack of internal expertise

21% Leadership buy-in 

21% No obstacles

www.isaca.org/state-of-cybersecurity-2022

RSAConference2022

It's All Connected – and What We Can Do About It

A conversation between Rob Clyde and Jenai Marinkovic

Apply What You Have Learned Today

- Next week you should:
  - Read the ISACA State of Cybersecurity 2022 research, research related to empathy in business, and the ISACA Supply Chain Security 2022 research
- In the first three months following this presentation you should:
  - Identify how you are decreasing technical and soft skills gaps at your organization
  - Explore your organization's approach to cyberrisk assessments
- Within six months you should:
  - Have a plan in place that helps mitigate skills gaps on your team
  - Implement new strategies for reskilling candidates into cyber professionals

RSAConference2022

Thank You!