Importance of Security Culture and How to Create One

Presented by Daisy Wong

Head of Security Awareness

Agenda

* About me

* Current Threat Landscape

* What is Security Culture and the importance

* How to create a strong Security Culture?

* Takeaways

* Q&A

About me

* Cyber Security Professional with 10 years experience

* Worked in Finance, Government, Retail

* Now working in the Healthcare industry

* Passionate about helping people understand cyber security and protect themselves and loved ones from cyber security threats.

Nurse Nancy

- **Experienced nurse. Her job is help patients in an operating theatre room.**

- **Never thought a cyber attack would happen to her or her hospital.**

- **4 out of 6 operating theatres had to be shut down.**

- **Revert back to pen and paper.**

- **Unable to access patient data for 3 weeks.**

- **She now understands her responsibility in protecting the hospital and her patients data.**

Current Threat Landscape

Human Risks

0%   20%   40%   60%   80%   100%

68% of breaches involved a human element
(n=10,069)

68%

32% of breaches involved Ransomware or Extortion
(n=9,982)

32%

28% of breaches involved Errors
(n=10,067)

28%

15% of breaches involved a 3rd party (including software vulns)
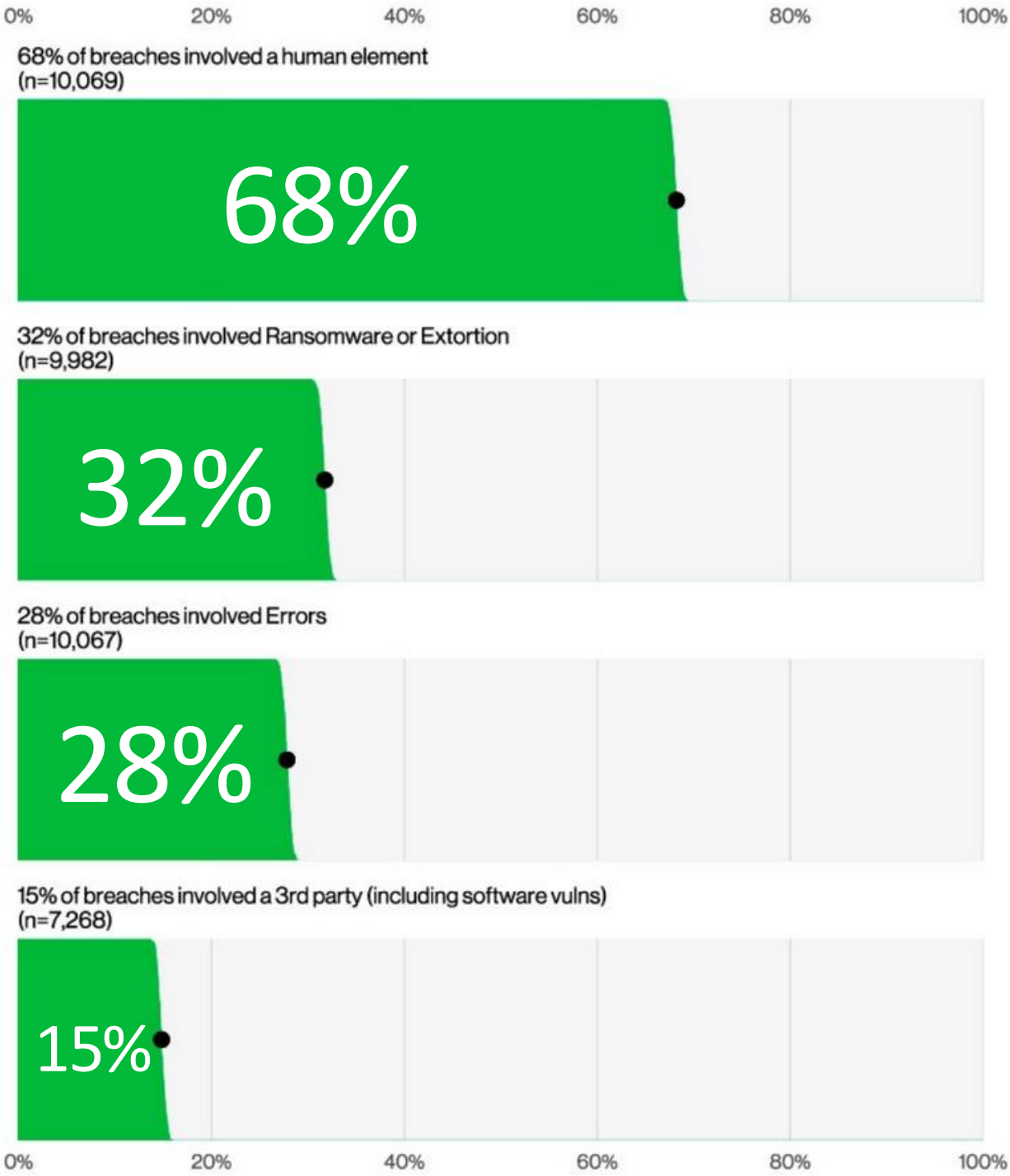(n=7,268)

15%

0%   20%   40%   60%   80%   100%

Figure 3. Select key enumerations in breaches

Top Human Risks: What are the top three concerns or human risks you are focusing on for 2024?

Top Human Risks

Risk	Percentage
Social Engineering	89%
Passwords/ Strong Authentication	45%
Detecting/ Reporting Incidents	43%
Artificial Intelligence	31%
Social Networks/ Social Media	19%
Cloud	19%
Working From Home	16%
Training Compliance Failure	14%
Other	7%

0   10   20   30   40   50   60   70   80   90   100
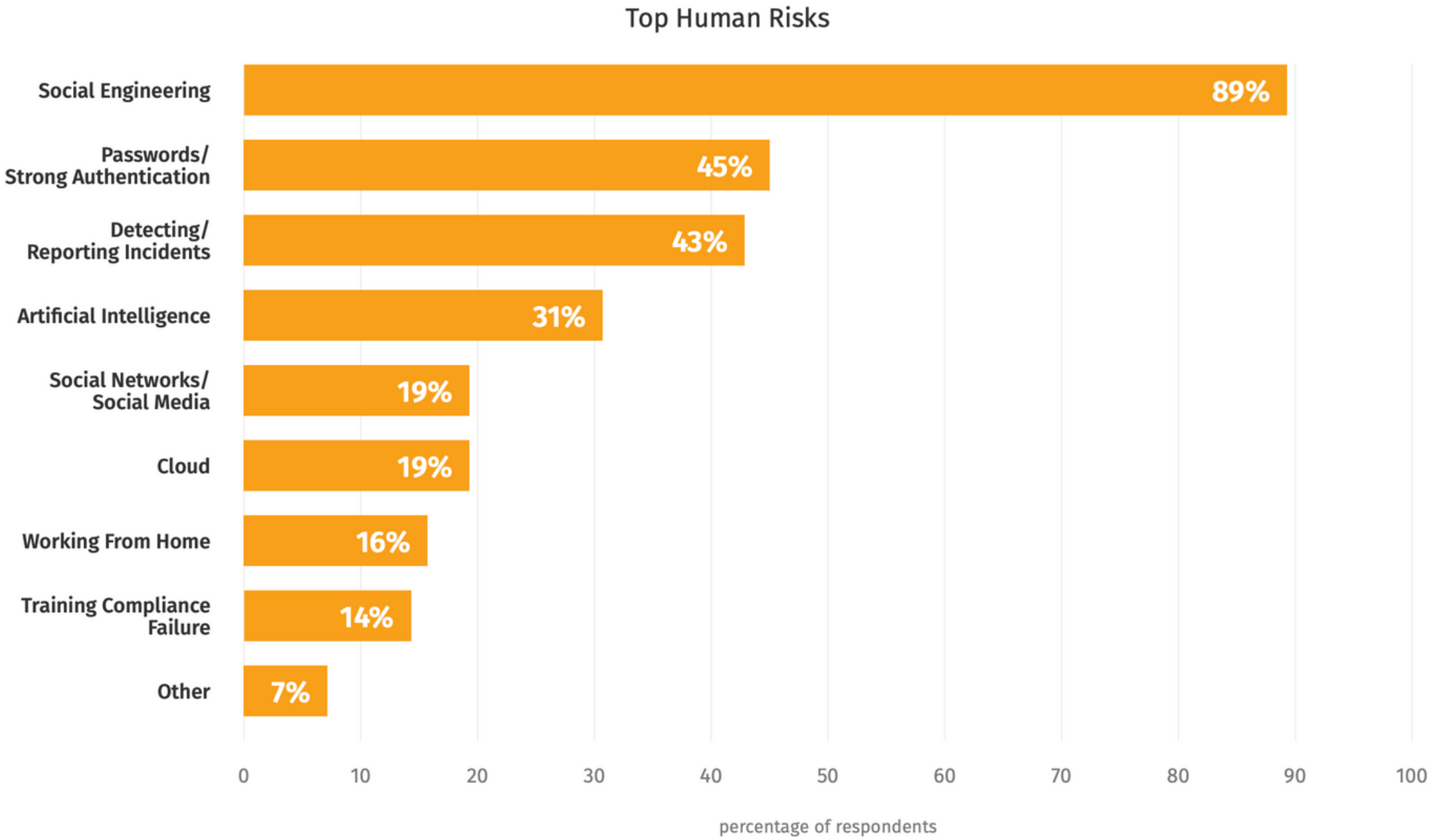
percentage of respondents

Figure 3

What is Security Culture?

Security Culture refers to a collective set of shared values, beliefs, and attitudes held by the employees within an organisation regarding cyber security and its associated threats.

Indicators of Security Culture

✓	Security Team is viewed as helpful, forgiving and approachable.	✗	Security Team is viewed as a blocker, unfriendly and arrogant.
✓	Uses plain English, transparent and appear knowledgable.	✗	Uses technical and confusing terminology.
✓	Security team acts more like an advisor to support.	✗	Uses antagonistic and fear techniques to educate staff.

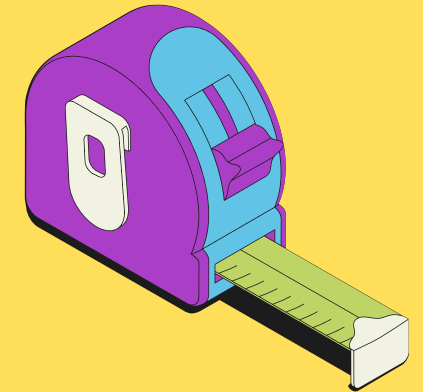# How to create a Strong Security Culture?

Review current security culture

Identify top human risks and behaviours

Engage, train and reward

Measure the effectiveness

Takeaways

1 Prioritise your people

2 Train with empathy

3 Building security culture requires patience and support

"
"Just because I'm aware doesn't mean that I care"

Perry Carpenter

Contact Details

daisytcwong@outlook.com

https://www.linkedin.com/in/daisywong127/