

In the Hot Seat: Three Experts Tackle 10 Critical Security Awareness Issues



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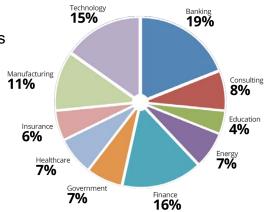
CHIEF EVANGELIST & STRATEGY OFFICER





KnowBe4, Inc.

- The world's most popular integrated Security Awareness Training and Simulated Phishing platform
- Based in Tampa Bay, Florida, founded in 2010
- CEO & employees are ex-antivirus, IT Security pros
- 200% growth year over year
- We help tens of thousands of organizations manage the problem of social engineering





Agenda

The Cost of Ignoring the Humans
Security Awareness & Training: A Fix or Plugging the Wrong Holes?
What Can Security Awareness Mean for Your Reputation?
Have We Nailed Security Communications?

5. How Do You Talk to Your Board About Cybersecurity? Why So Hard?



Agenda

 How Do You Measure The Benefit of Awareness, Behavior, & Culture Change?

 Security Awareness & Training Content: Quality vs Quantity
Behavioral Science & Psychology
Culture & Social Influence
The Maze of Products



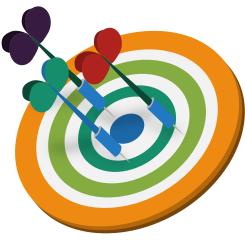
1. The Cost Of Ignoring The Humans

Stolen Credentials

- Cybercriminals use stolen user credentials to carry out 31% of attacks
- Passwords are far from dead and people make their compromise easy

Notifiable Data Breach Report

 33% Related To "Human Error" and a majority of the rest of the "Cyber Incidents" related to compromise of credentials through human factor such as phishing and brute-force attacks



BEC Costs \$5B

- The FBI estimates that between October 2013 and December 2016,
 BEC and associated
 - scams accounted for losses of over \$5 billion.

 Priceless (Not In A Good Way)
Security remaining in the basement

Source: "Business E-Mail Compromise: E-Mail Account Compromise The 5 Billion Dollar Scam," Federal Bureau of Investigation Public Service Announcement, May 4, 2017



Human Firewall Incidents

HUMANS DAMAGING THEMSELVES AND THEIR COMPANY

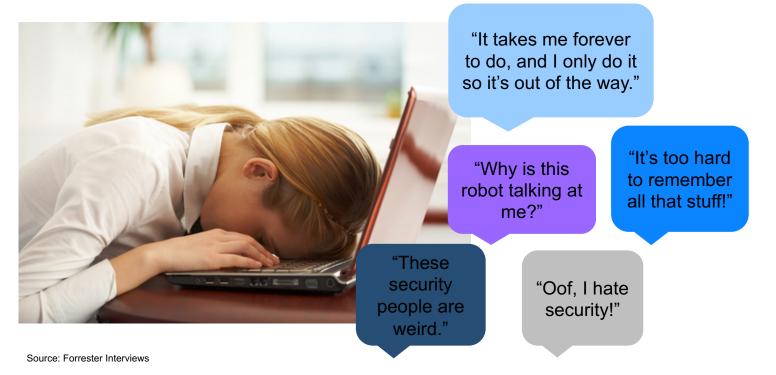


- Chairman Rory Cullinan sent selfies via Snapchat to daughter "Boring board meeting"
- Uploaded on Insta
- 3 weeks later, he exited the bank
- CFO tweeted from private account 'Board meeting. Good numbers = happy board"
- Increase in Company's share price
- Breached disclosure rules

- · Email from claimed lawyer
- Asked to send money to an account.
- She wired \$1,057,500 to that account
- The money was then sent to Commerce Bank of China



2. Security Awareness & Training: A Fix, Or Plugging The Wrong Holes?





"Do I have to pay attention for the whole hour of this training, or can I just let it run in the background?"

> Vice President & Marketing Director, Large Professional Services Organization

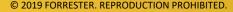


3. What Can Security Awareness Mean For Your Reputation?





4. Have We Nailed Security Communications?





5. How do You Talk To Your Board About Cybersecurity? Why So Hard?

1. Security Reporting Lines

3. Talking Security Vs. Risk

2. Lack Of Tech Expertise At Board

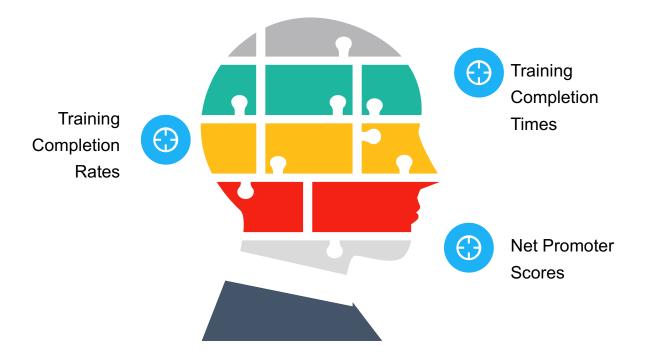
4. Techies Not Translators



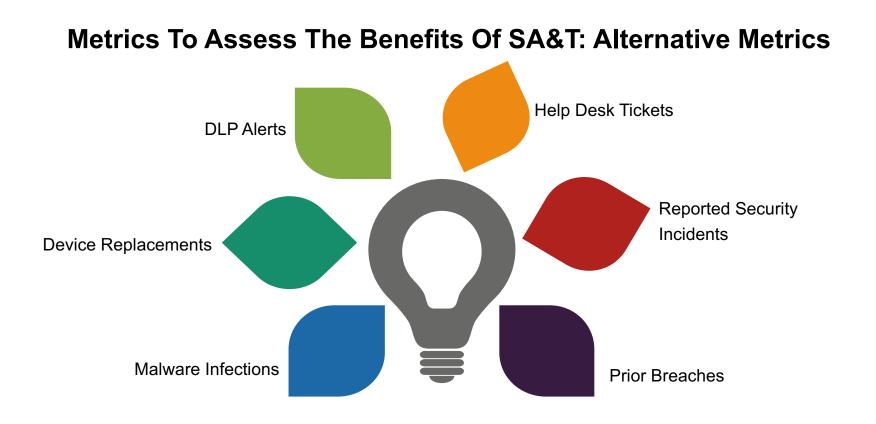
6. How Do You Measure The Benefit of Awareness, Behavior, And Culture Change?



Metrics To Assess The Benefits Of SA&T: Input Metrics









Metrics To Assess The Benefits Of SA&T: Security Visibility & Influence





Metrics From Surveys: They Achieve So Much More Than Just Measurement

Behavioral concept	Security-related behavioral aspect	Behavioral perspective	Potential measurement question
Motivation	Understanding of consequences	Personal	What could the consequences be of clicking on a malicious link in an email?
		Company	How could an information security breach such as a lost laptop or leaked company data affect the organization?
	Culture	Management	Does your line manager stress the importance of good information security practices?
		Colleagues	Do your colleagues follow security policies and practices at all times?
		Acceptability	In what circumstances may you or your colleagues ignore or bypass a security policy or process?
	Current state	Mood	What is the current morale level across the organization?
Ability	Awareness	Awareness of risks	Please rate these five actions in order of risk to the company.
		Awareness of expectations	How aware do you feel of the policies that apply to you?
	Simplicity of desired behavior	Threat recognition	How easy is it recognize a potential information security risk?
		Time/routine	How much time does it take to evaluate and report a potential information security issue?
Triggers	Immediacy of triggers		The last time you reported a security risk, what triggered you to do so?

Source: Forrester Report, <u>"The Business Case For Security Awareness And Training"</u>

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8. Behavioral Science & Psychology





















9. Culture And Social Influence





10. The Maze Of Products









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Thank You

