IIBA® International Institute of Business Analysis™

IEEE COMPUTER SOCIETY

Cybersecurity: Business Analysis Essentials

Tuesday February 18, 2020

Cybersecurity: The Facts

3.5 Million

Unfilled cybersecurity jobs worldwide will reach 3.5 million by 2021.

300,000

Cybersecurity jobs in the U.S. are currently unfilled.

6 Trillion

Dollars expected to be spent globally on cybersecurity by 2021.

Sources:
https://www.cybintsolutions.com/cyber-security-facts-stats/
https://thehill.com/opinion/cybersecurity/365802-cyber-jobs-are-available-but-americans-dont-realize-they-are-qualified

There is a hacker attack every 39 seconds.

Source: www.thesslstore.com/blog/80 -eye-opening-cyber-security-statistics-for-2019/

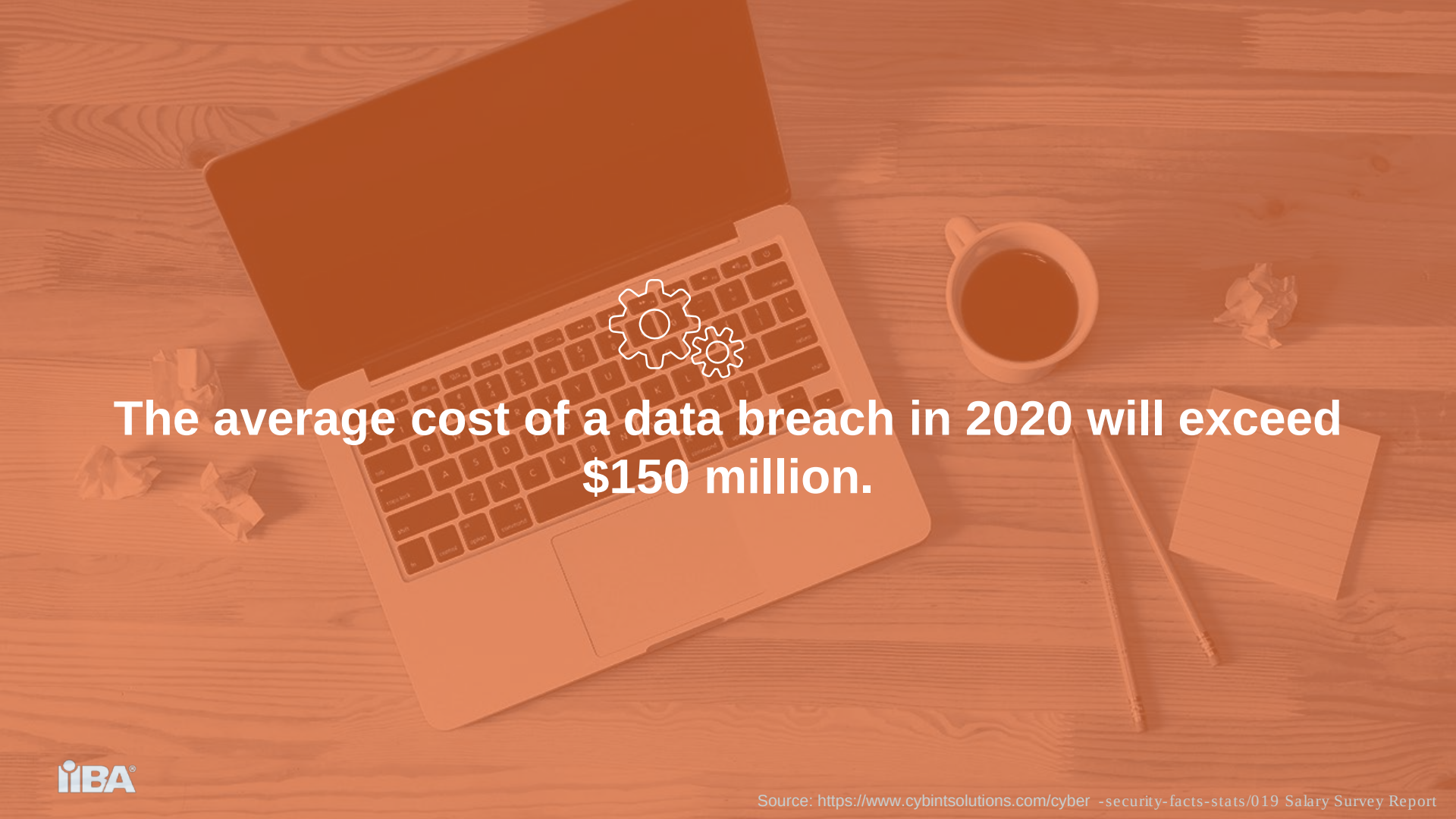
21% of business analysis professionals report being involved in their organizations' cybersecurity practice.

- 2019 Salary Survey Report

67%

Cybersecurity breaches have increased by 67% over the past five years.

Source: https://www.cybintsolutions.com/cyber-security-facts-stats/019



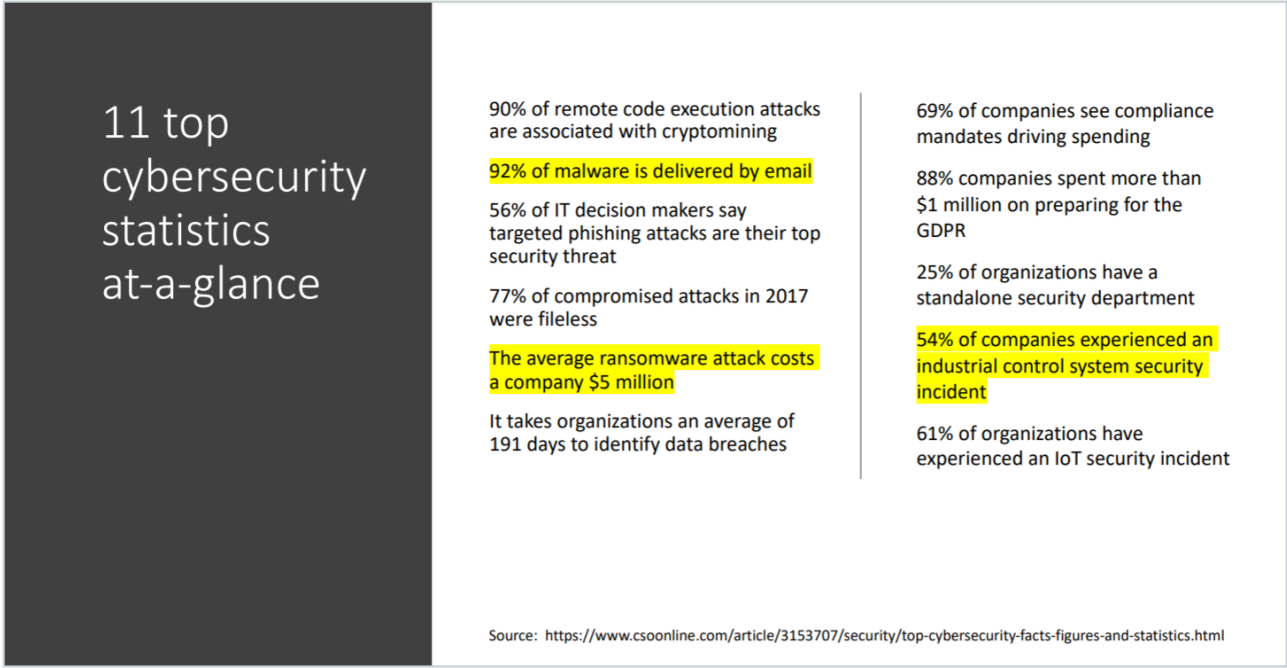
The average cost of a data breach in 2020 will exceed $150 million.

Source: https://www.cybintsolutions.com/cyber -security-facts-stats/019 Salary Survey Report

Q&A

Panelist Discussion

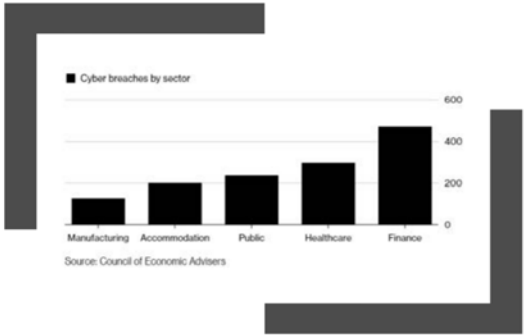
How are increasing cyber threats driving the need for a diverse cybersecurity workforce?



Source: The Role of a BA in Cybersecurity, T. Baresh

With the changing landscape of technology increasing information risks exponentially and increasing our vulnerability to cyberattacks, what is the role of the business analyst in cybersecurity?

Cost of cyberattacks to US economy



The Council of Economic Advisors reports that malicious cyber activity cost the US economy between $57 billion and $109 billion in 2016

The finance sector had the highest number of cyber breaches in 2016

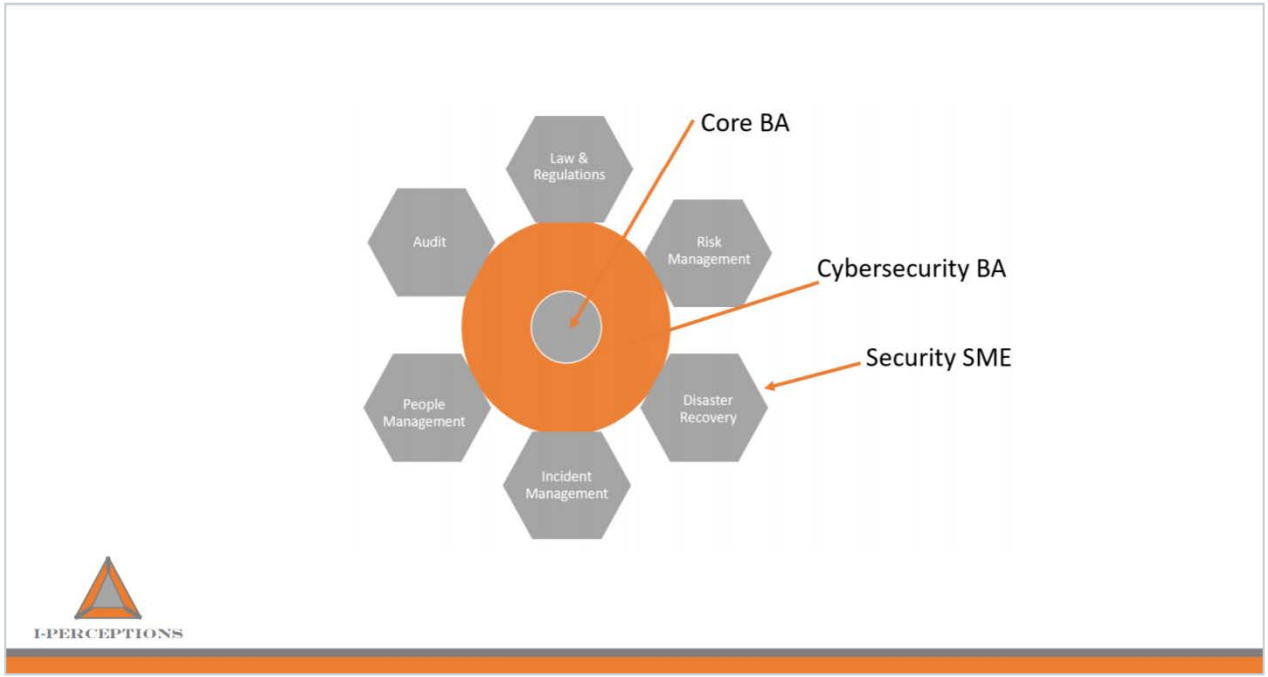
Cost of cybercrime

- Cybersecurity Ventures predicted that cybercrime will cost the world $6 trillion annually by 2021, up from $3 trillion in 2015.
  - This represents the greatest transfer of economic wealth in history,
  - risks the incentives for innovation and investment, and
  - will be more profitable than the global trade of all major illegal drugs combined.

Source: The Role of a BA in Cybersecurity, T. Baresh

Who is responsible for cybersecurity and what can BAs do about it?

Can you share what your experiences have been working as a BA alongside cybersecurity experts and analysts?



Source: Cybersecurity: It's Your Responsibility, BINDU CHANNAVEERAPPA

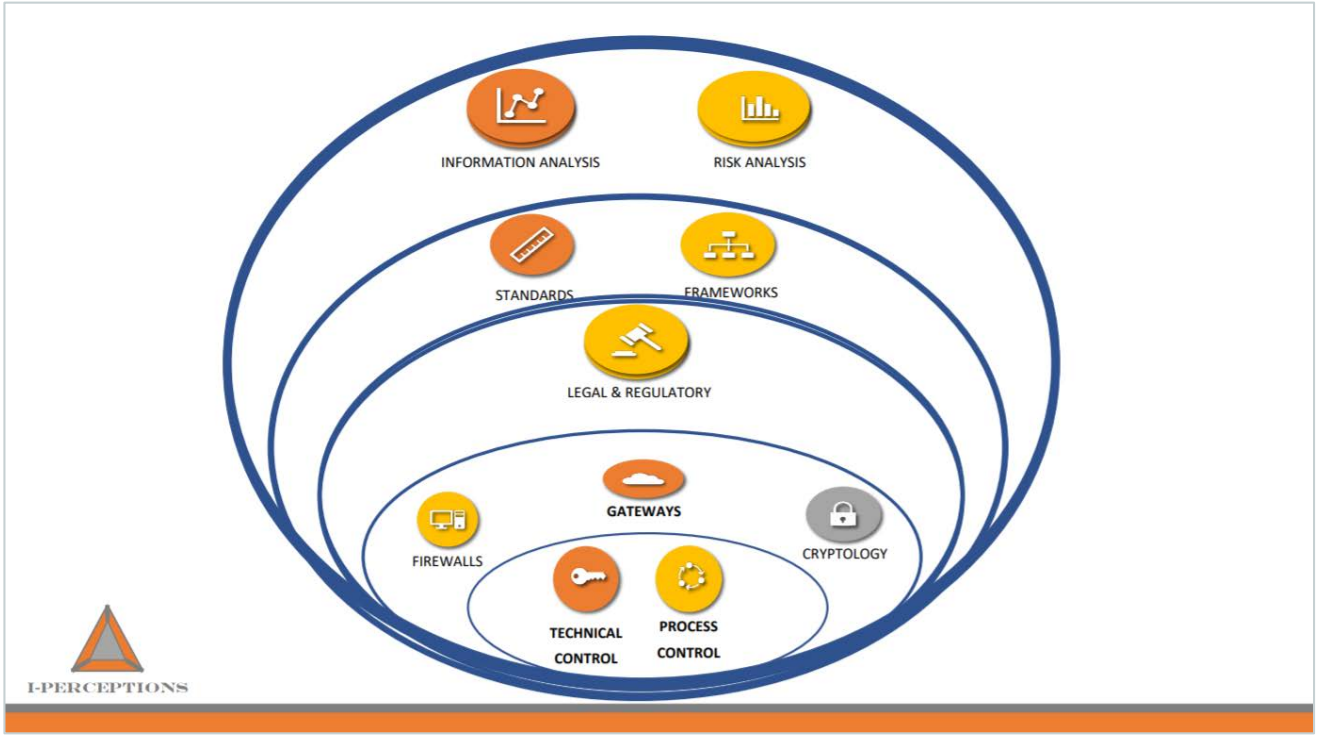
How can BAs apply their skills and techniques described in the Business Analysis Body of Knowledge (the BABOK® Guide) to facilitate planned change that exceeds stakeholder, compliance and regulatory requirements?

Source: The Role of a BA in Cybersecurity, T. Baresh

Question:

What roles do governance, risk and compliance-based approaches play in cybersecurity planning?

How do you apply business analysis methods and practices to cybersecurity and enterprise information security to help keep businesses secure?



Source: Cybersecurity: It's Your Responsibility, BINDU CHANNAVEERAPPA

Question:

What is the role of the BA in helping cybersecurity teams prevent data loss?

Do businesses know what they are preparing for?

The National Association of Corporate Directors identified the top 10 risks to board governance and number 5 was cyber risk.

What can businesses do about this and how can BAs help?

TOP 10 RISKS FOR 2019[1]
RISK ISSUE
Existing operations meeting performance expectations, competing against "born digital" firms
Succession challenges and ability to attract and retain top talent
Regulatory changes and regulatory scrutiny
Cyber threats
Resistance to change operations
Rapid speed of disruptive innovations and new technologies
Privacy/identity management and information security
Inability to utilize analytics and big data
Organization's culture may not sufficiently encourage timely identification and escalation of risk issues
Sustaining customer loyalty and retention

Source: https://blog.nacdonline.org/posts/top-risks-for-2019

What are the 5 things BAs can do today to prevent cyber attacks?

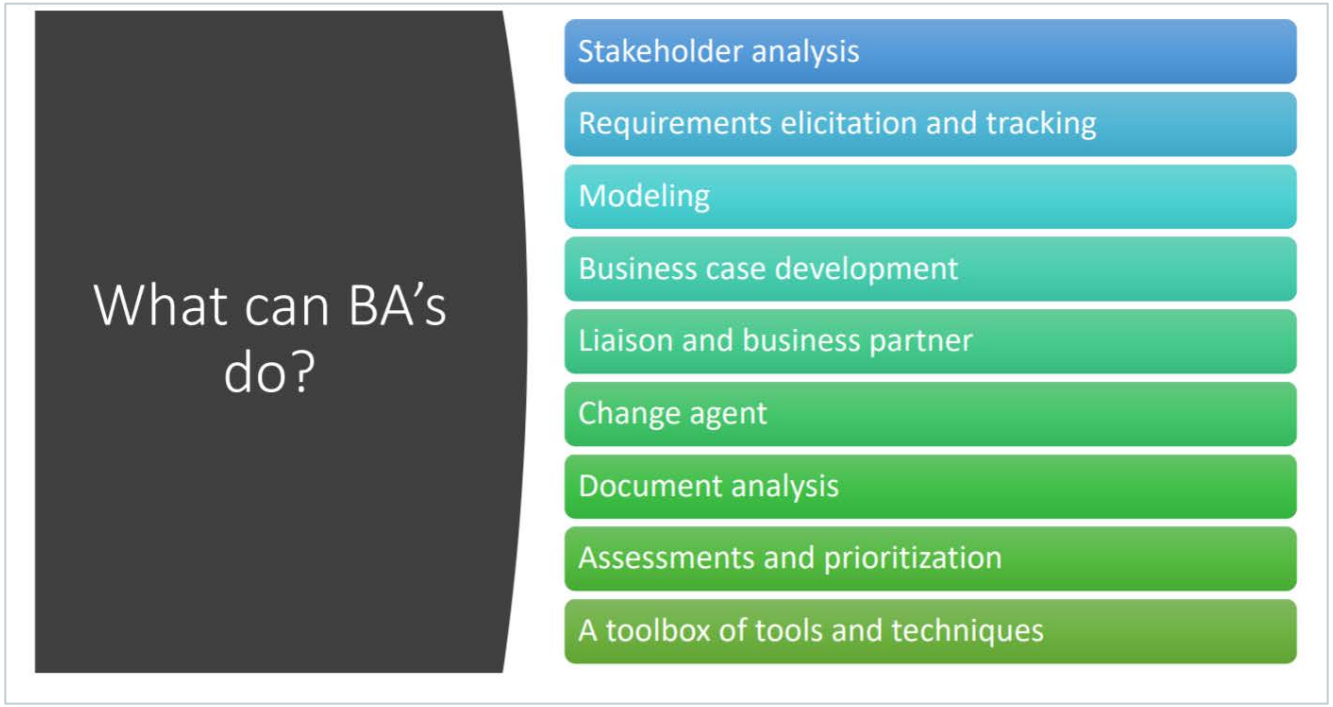
Patch Management

A good patch management strategy ensures that patches are applied in a timely manner and will not negatively affect operations. This breaks down into two main components: patch testing and patch application.

Role of the BA – Process modeling, stakeholder engagement, risk assessment, establishing the RASCI

Source: The Role of a BA in Cybersecurity, T. Baresh

How can we apply the skills and techniques described in a Guide to the Business Analysis Body of Knowledge (the BABOK® Guide) to facilitate planned change that exceeds stakeholder, compliance and regulatory requirements?



Source: The Role of a BA in Cybersecurity, T. Baresh

Question:

Can you share an example of the type of technologies and tools an organization may have and what are the potential gaps?

Question:

How can Business Analysis help businesses build their framework through scenarios and use cases to create user stories for cybersecurity?

Question:

IIBA and IEEE Computer Society teamed up to create the learning modules and the resource materials for Cybersecurity Analysis.

Can you tell us how the learning modules work with the IIBA IP? What do the modules cover?

How can BAs and cyber teams work hand in hand using agile?

Question:

How can you apply business analysis knowledge in cybersecurity?

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As the recognized voice of the business analysis community, IIBA supports the recognition of the profession and discipline and works to maintain the global standard for the practice and certifications.
For more information visit **www.iiba.org/cybersecurity**

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Thank you!

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