



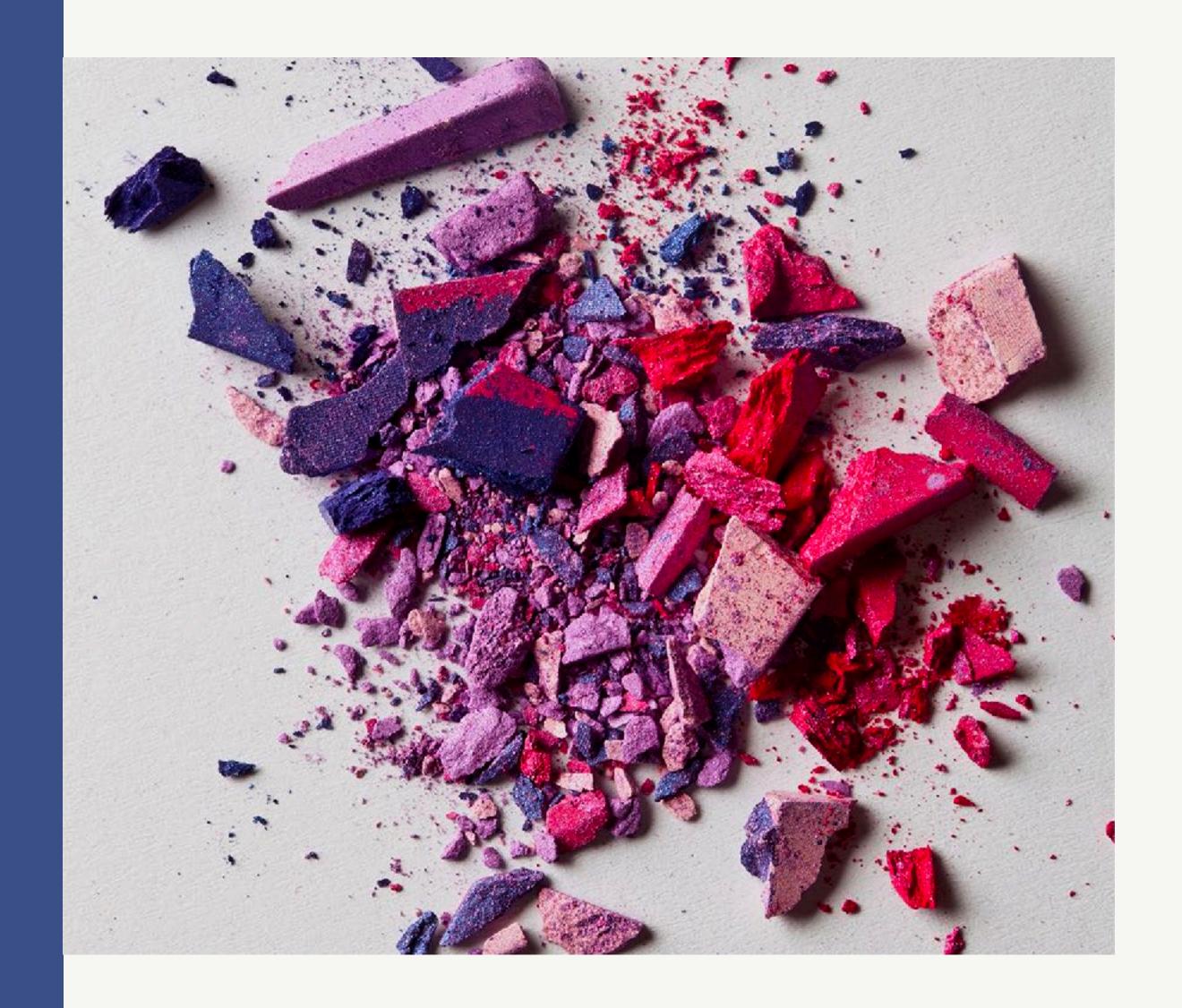


What is a pandemic?





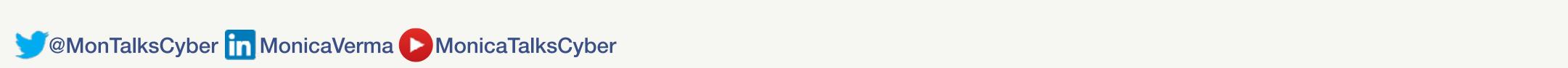
Global Outbreak World Crisis



Verma

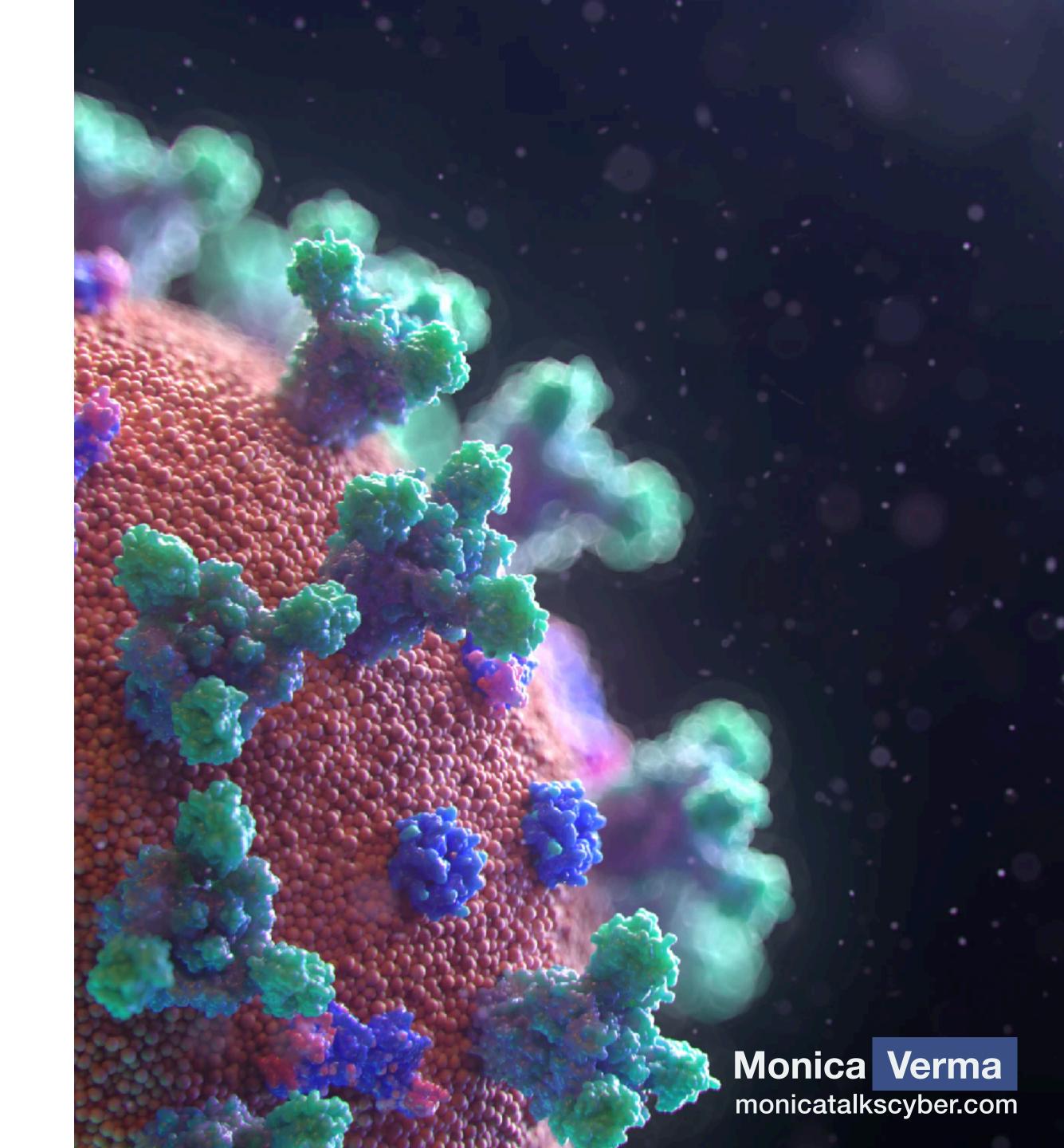
monicatalkscyber.com

Monica





Pandemic Afew challenges





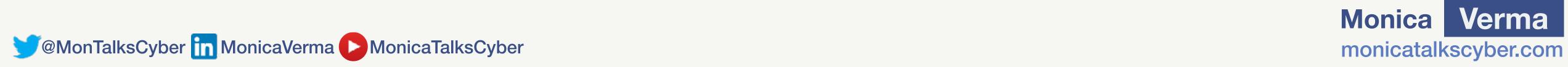








Cybersecurity Similarities to a Pandemic











The Cybersecurity and Infrastructure Security Agency (CISA) has

- a) received multiple reports of
- b) advanced persistent threat (APT) actors
- c) actively exploiting trust relationships in information technology (IT) service provider networks
- d) around the world—such as managed service providers (MSPs) and cloud service providers (CSPs)—has increased in recent years.

2018 CISA, Department of Homeland Security







APT10 Cloud Hopper

Cloud Hopper - 2017

"APT10 has recently unleashed a sustained campaign against MSPs. The compromise of MSP networks has provided broad and unprecedented access to MSP customer networks."

"PwC UK and BAE Systems assess APT10 as highly likely to be a China-based threat actor."

PwC, Operation Cloud Hopper





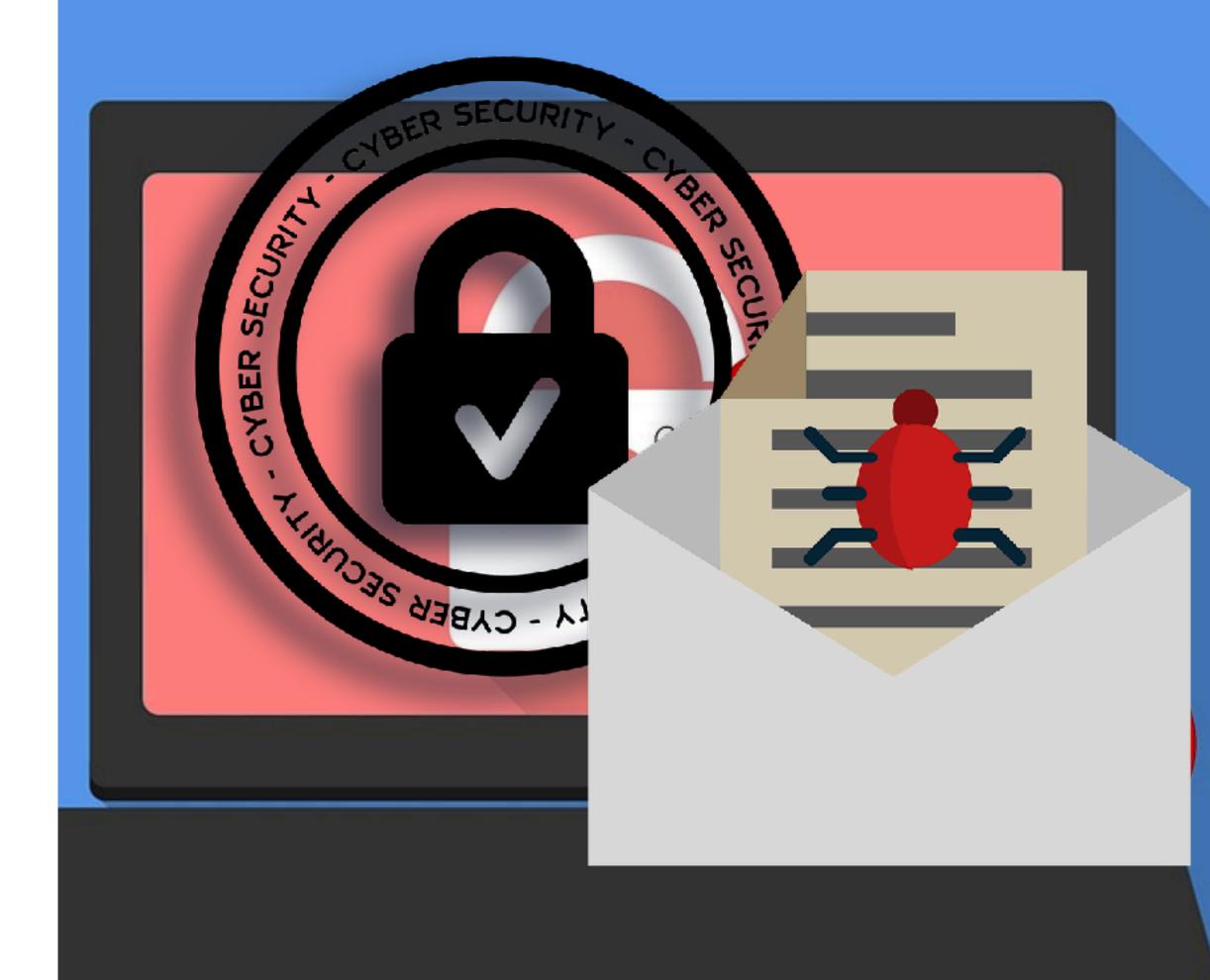


Advanced Phishing Campaign

WIPRO - 2019

"We detected a potentially abnormal activity in a few employee accounts on our network due to an advanced phishing campaign. Upon learning of the incident, we promptly began an investigation, identified the affected users and took remedial steps to contain and mitigate any potential impact,"

Wipro 2019









Maze Ransomware

Cognizant MSP Attack - 2020

"Cognizant can confirm that a security incident involving our internal systems, and causing service disruptions for some of our clients, is the result of a Maze ransomware attack,"

Cognizant, 2020













Adapt Adjust Build resilience Understand technological disruptors



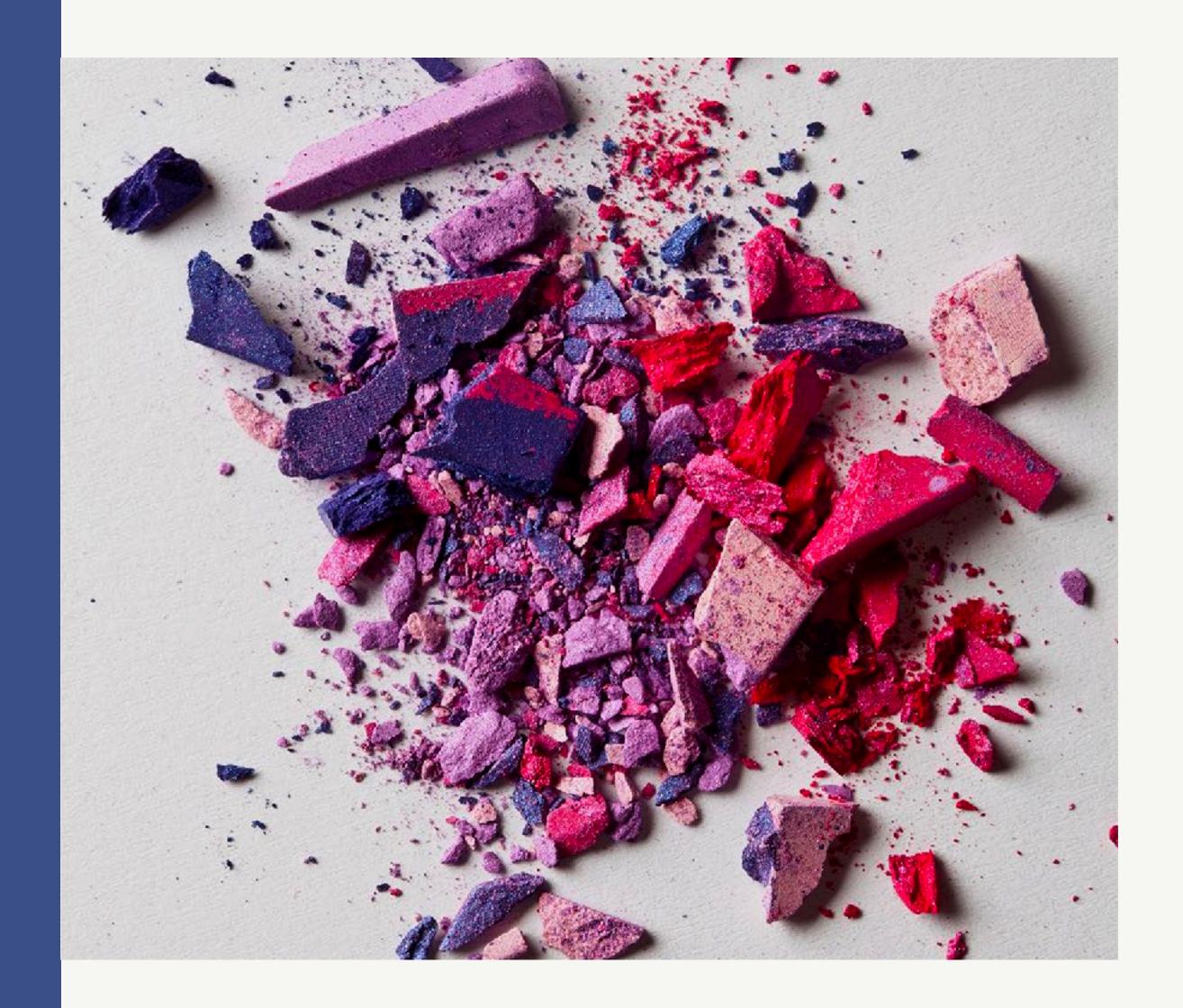






One of the best defenses against cybersecurity threats is Cyber Resilience.

— Monica Verma















Cyber Resilience







1. Cyber Resilience

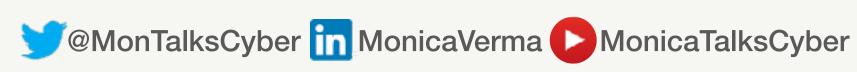
Cybersecurity + Business Resilience

Anticipate Chaos! Be Prepared!

Critical to understand the threat landscape and the cybersecurity risks you face

Resilience happens when you are better able to detect, contain, respond to and adapt to cyber attacks, whilst continuing normal business operations.

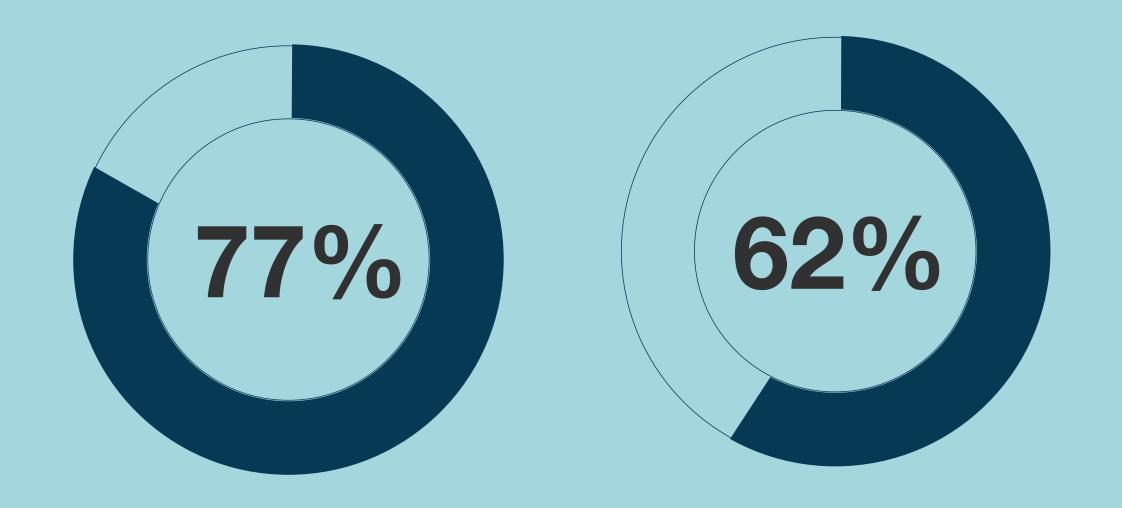








1. Cyber Resilience



Source: IBM Study

77 percent of firms surveyed lack proper cyber resilience plans

Only 44 percent of respondents believe their organizations' leaders recognize that enterprise risks affects cyber resilience

62 percent of respondents say risk assessment is a critical element to cyber resilience plans







Cyber Resilience

Anticipate Chaos! Be Prepared!













Risk Quantification







2. Risk Quantification

Financial estimation of a cyber risk impact including financial, business and reputational impact, in order to

- a) understand risk exposure
- b) ensure right security investment at right time







The risk I took was calculated,

....but man, I am bad at math.





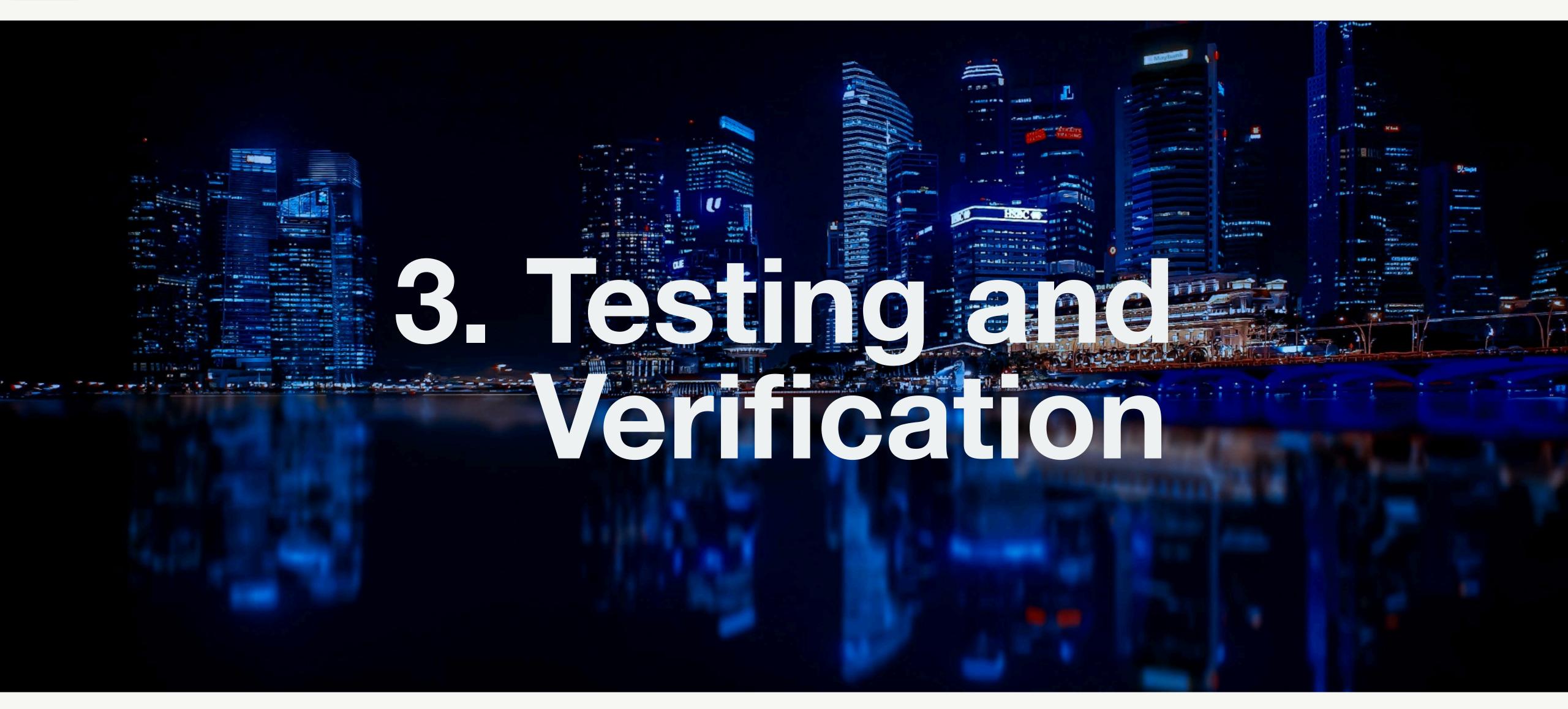














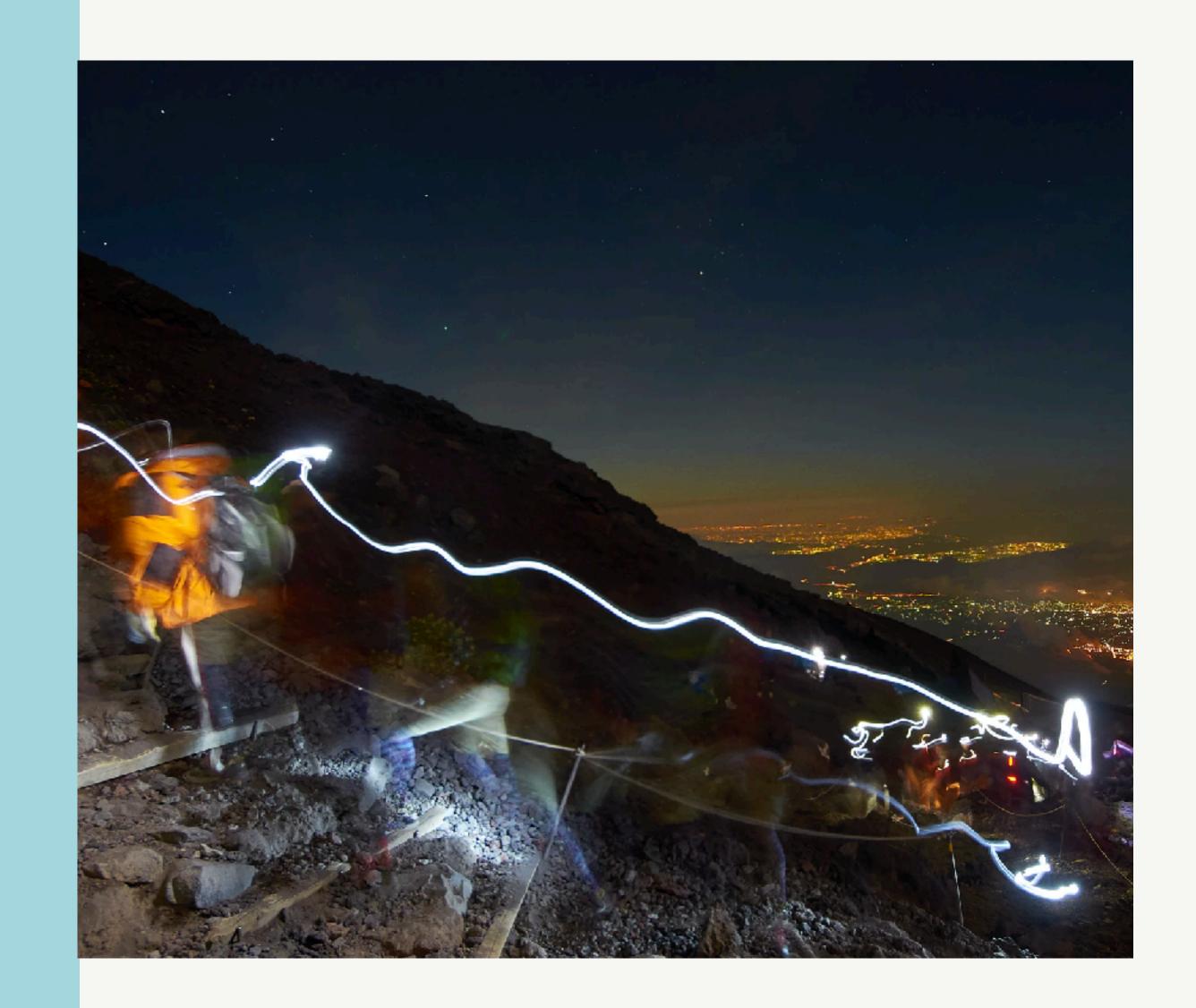


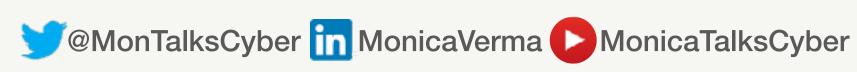
3. Testing and Verification

Testing BCP, cyber resilience plans, security incident and crisis management plans

Verify - Treat all accesses as unauthorized unless and until identified, authorized and verified.

Verifications policies independent of working from office or from home.













Business Differentiator Key Elements







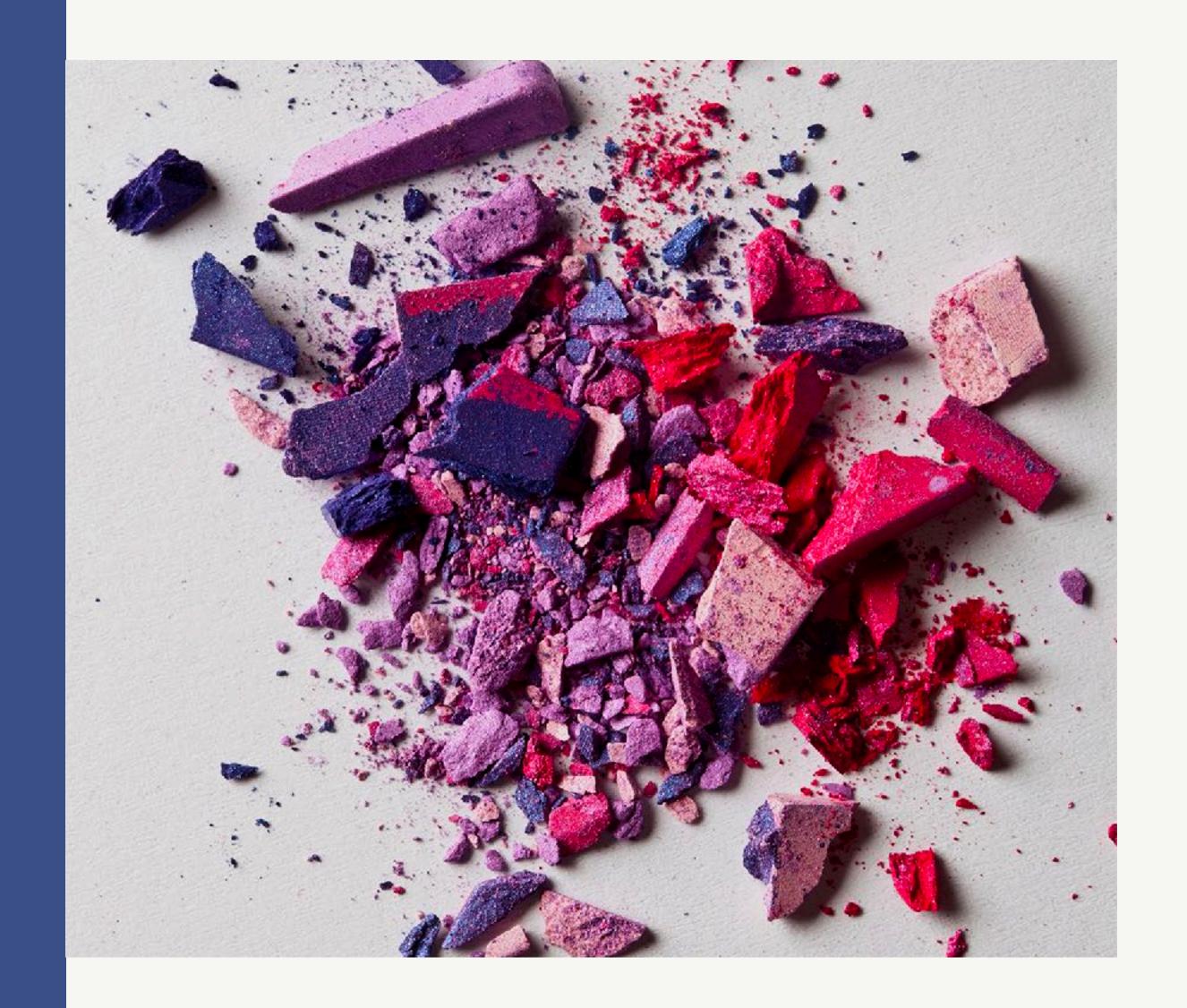






Not just a matter of if and when, but

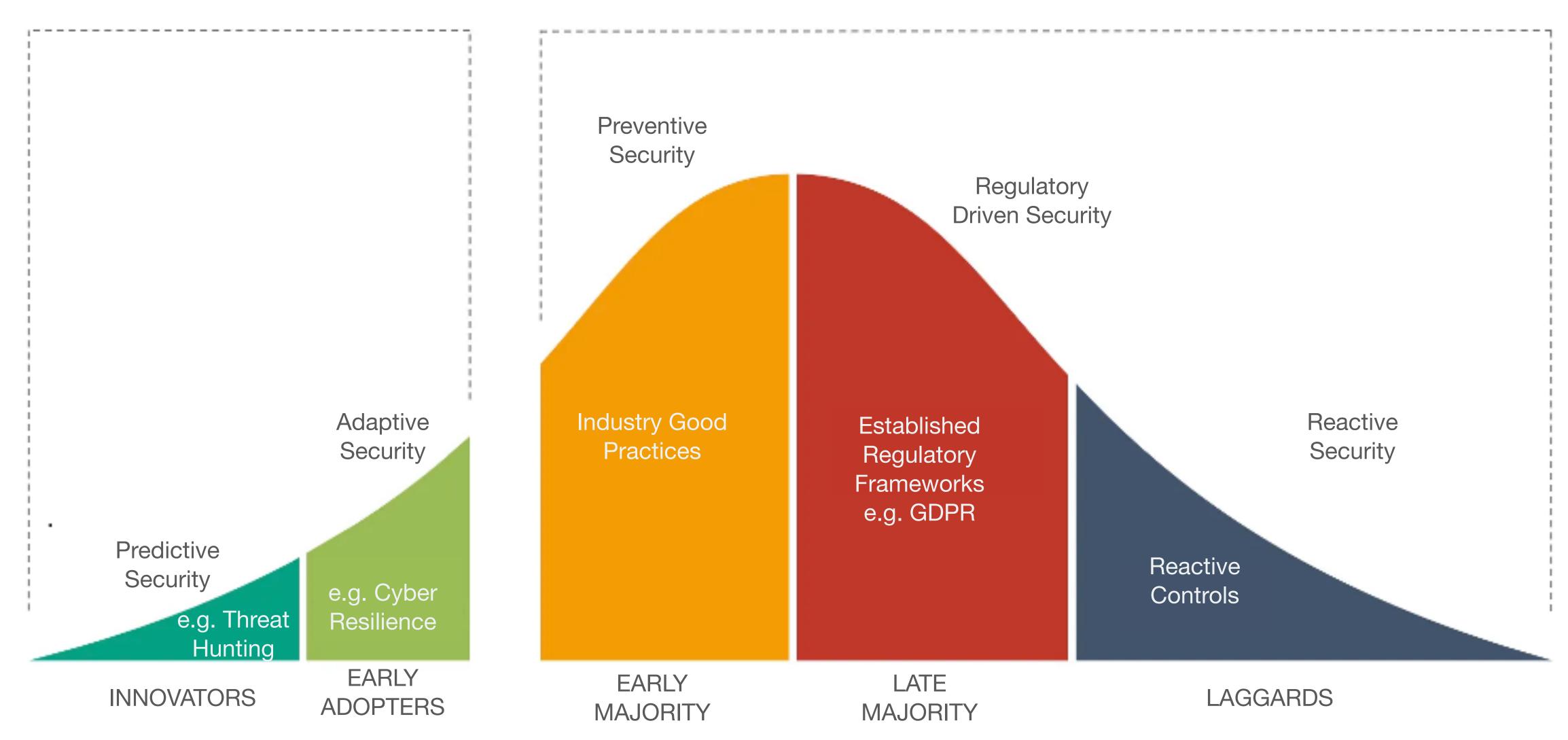
how long?
how much impact?
how to contain?
how to invest?
how to continue?
how to adapt?
how to predict?











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Next Steps

Linking to Risk Assessment (RoS analyse) to select a position in curve?

What type of business should be in which part of the curve?

What kind of typical vulnerabilities will hit businesses in the different phases?

What business benefits are associated with being a specific position in the curve?

What type of investment is required for the different phases?



CONTACT







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BIO

THE BLOG ON ALL THINGS CYBER

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