

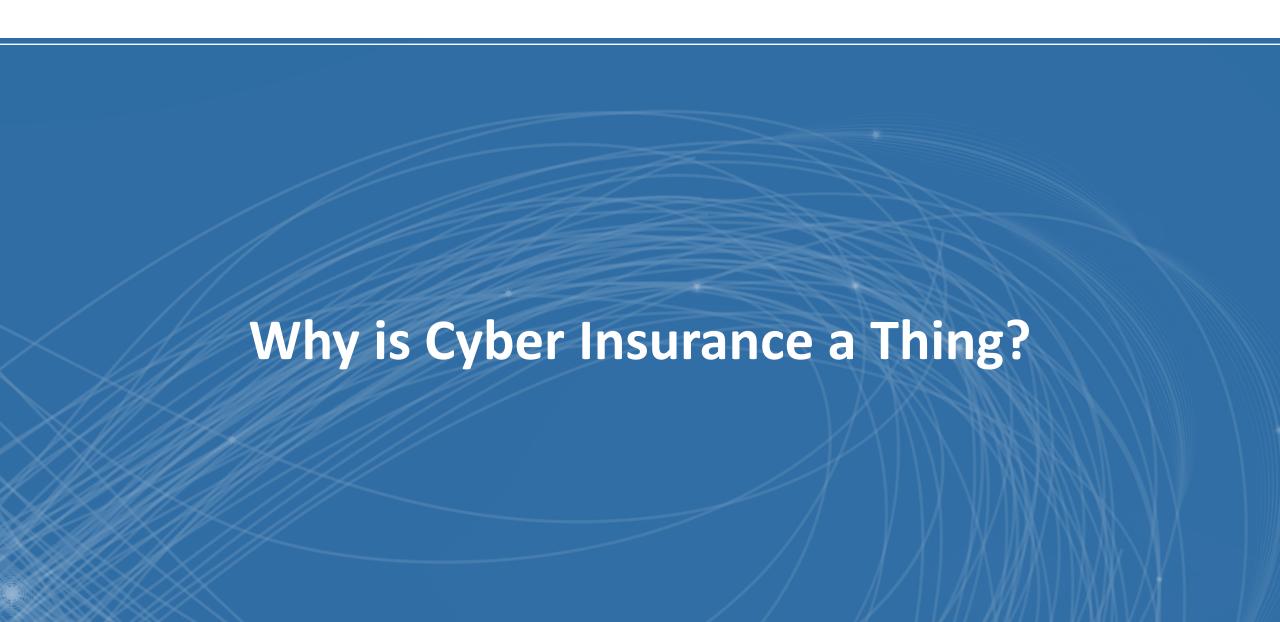
# Intro to Cyber Insurance ISSA Central Maryland Chapter Meeting April 24, 2019



#### **Presentation Outline**

- 1. Why is cyber insurance a thing?
- 2. What makes Cyber insurance unique in the context of the broader the insurance industry
- 3. Common myths and misconceptions about cyber insurance
- 4. Shallow dive into the murky waters of cyber insurance coverage





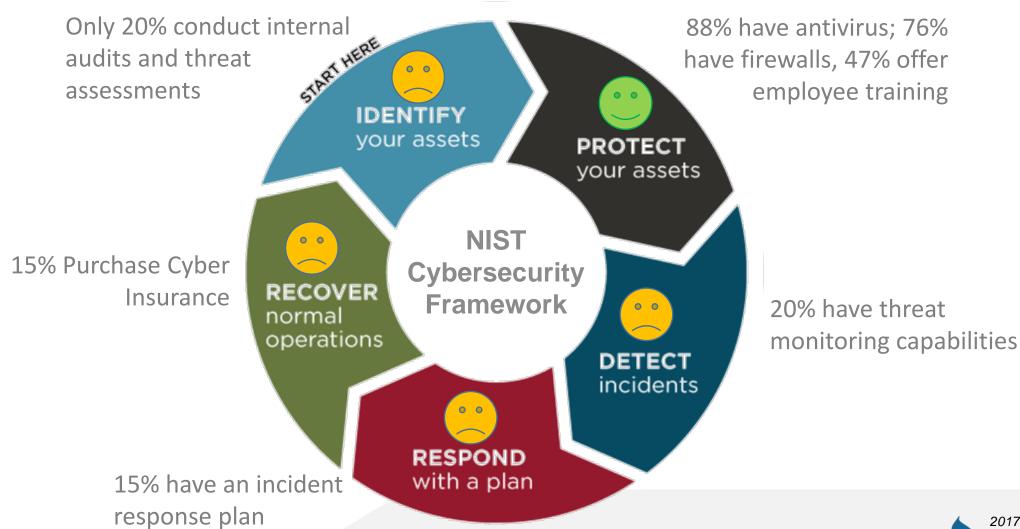


#### Because next year will be worse....

2017: The Year of the Data Breach 2016 Was a Record Year for Data Breaches While there is a lot of hype Identity Theft Resource Center logged more than 1,000 breaches Number of incidents increased 40 percent last year from 2015 surrounding cyber risk, incidents are re's What We Know About Russi actually happening. Reliable Secure. According to the Chinese zodiac, 2017 is the Year of the Rooster. HomeHawk professionals, it might as well be the year of the data breach. High Chubb Percent Incident Growth Compared to 2014 All Industries and All Revenue Sizes 150% 100% 2018: The year of the data breach 2015 2016 2017 2018 tsunami Year osted: December 28, 2018 by Logan Strain ast updated: December 27, 2018 It's tough to remember all of the data breaches that happened in 2018. But when you look at the largest and most impactful ones that were reported throughout the year, it paints a grim picture about the state of data security today.

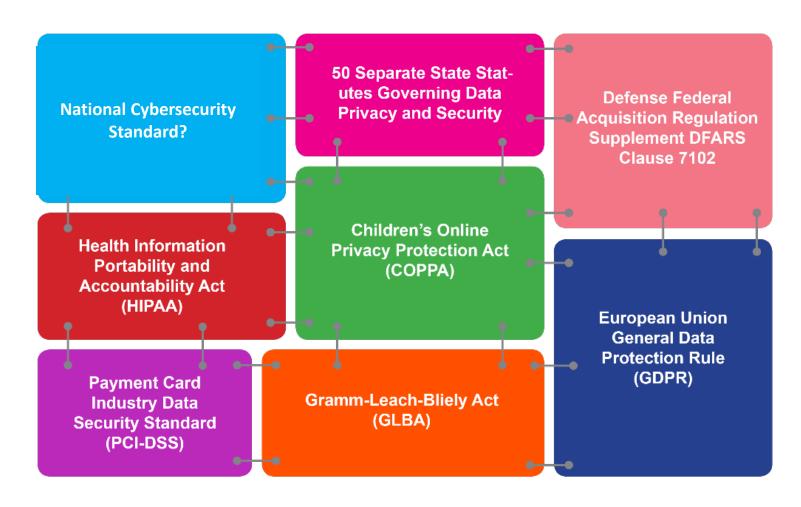
#### **Most Businesses Are Not Prepared**







The legal, regulatory and contractual landscape is becoming increasingly complex





#### The New York Times

Big Companies Thought Insurance Covered a Cyberattack. They May Be Wrong.

"US snack food giant Mondelez is suing its insurance company for \$100m after its claim for cleaning up a massive NotPetya ransomware infection was rejected – for being "an act of war" and therefore not covered under its policy."

The Register, January 2019

It was confirmed that DLA Piper does not have a cyber-security specific policy and that this is central to the dispute, with the Hiscox spokesperson saying, "They are making a claim which we are disputing. They don't have the right cover. It's not a cyber policy and its nothing to do with war exclusion."

- SC Magazine, March 2019

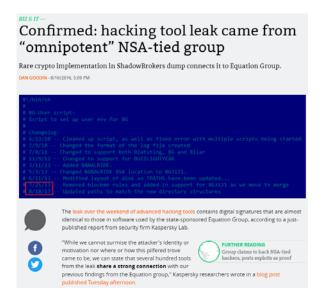
# And traditional insurance policies are not covering cyber-related claims



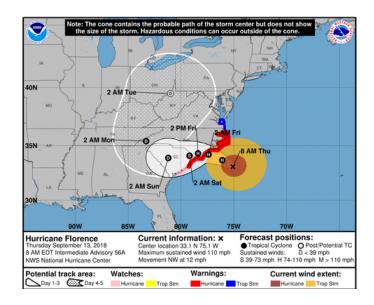


### It's Unlike Any Other "Unpredictable" Risk ©PSA







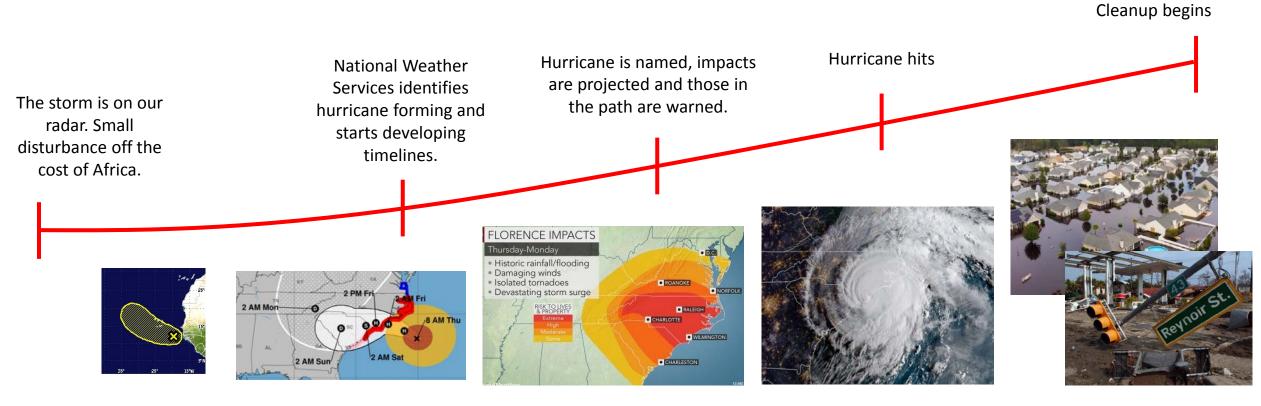


- The insurance industry is used to dealing with uncertainty. A good example of this is hurricanes. A single event can cause significant damage and impact rates across the entire insurance marketplace.
- However, Cyber risk is currently unlike any other risk the industry is dealing with or has had to deal with in the past.

### It's Unlike Any Other "Unpredictable" Risk



Storms are unpredictable, but we are used to dealing with them and their impact is relatively confined to a single geographic region.



#### It's Unlike Any Other "Unpredictable" Risk



Mondelez sues Zurich in test for cyber hack



Right now we cant forecast, track or manage cyber events in the same way. For example, the pieces of the WannaCry and NotPetya attacks only came together after the attack happened. This makes it very difficult for the insurance industry to insure against this risk up front, and respond afterwards.







#### Are there discounts for proper controls?

## Death, Taxes, and Cyberattacks

Governments and companies need to adapt to a world where hacks and security breaches are a certainty, not a risk.



"Just as medical and life insurance policies offer discounts for people who don't smoke or keep healthy regimens, cyber insurance policies could do the same for corporations that maintain "good hygiene" or follow "best practices" in computer security."

- Slate, April 2019

#### What we ask and what businesses tell us:

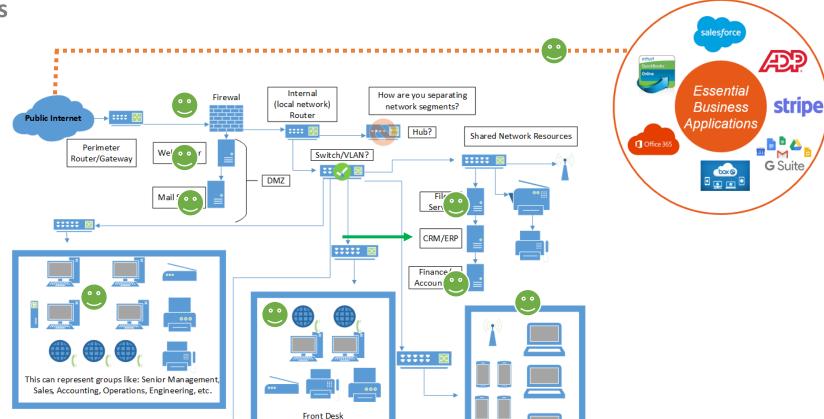
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Conference Room/Public Access



The challenge is that best practices are evolving and responses to applications are subjective

- We don't host our own website
- We just moved to office 365
- We are using a cloud service for file sharing
- We are using 2FA on cloud services
- We moved to an online finance application
- We don't handle any sensitive data and everything is backed up
- All we have left is our Enterprise
  Resource Management System that is
  too expensive to outsource. Our IT
  person says it is secure.
- We use a firewall and antivirus, use strong passwords and conduct regular Phishing training



Mobile Devices/BYOD

#### But, the details matter...\*



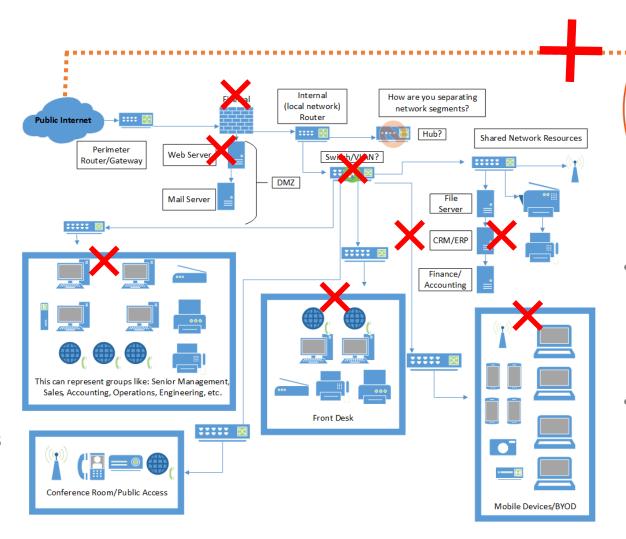
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**G** Suite

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# This company is trying to think about security, but here is what we missed:

- 2FA on Office 365 was planned but not completed
- Did not purchase or enable logging for cloud services
- Never did a data mapping project and it turns out the company has both sensitive employee information, customer account information and corporate confidential data
- Backups are being done but not tested
- ERP system is critical to delivery of services and no disaster recovery plan is in place
- No network segmentation and Encrypted Packet inspection is not enabled



\*We can't do full cyber risk assessments on every client and cost are not justified by insurance premium savings.

Essential

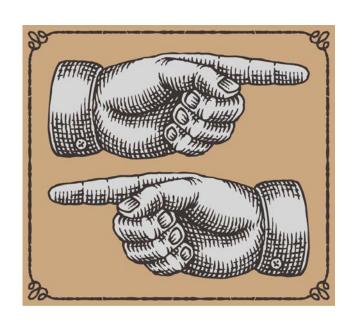
Business

**Applications** 

In many cases responses on applications related to cybersecurity controls are not particularly indicative of the overall cyber risk of any business.

## Cloud Services Eliminate Cyber Exposure





#### • General Considerations:

- o If client is the cause of a breach (i.e. lost/stolen password) a service would most likely not be liable and they probably make this clear in their contracts.
- o The data owner is responsible for breach response. A business can sue for damages but this does not help with immediate response.

#### Contractual Limitations:

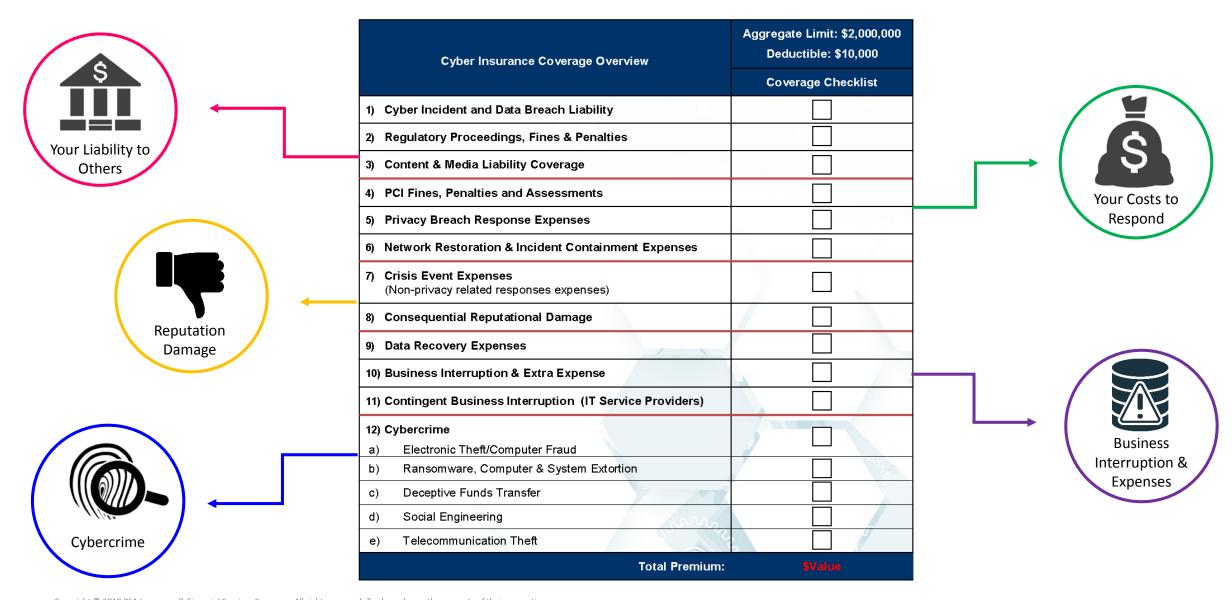
- Contracts typically limit liability for consequential damages (business interruption, reputation damage, loss of revenue, etc.)
- Most contracts with vendors place a cap on damages, often tied to the value of the contract





### What does a typical policy cover?





## Let's Run Through a Loss Scenario



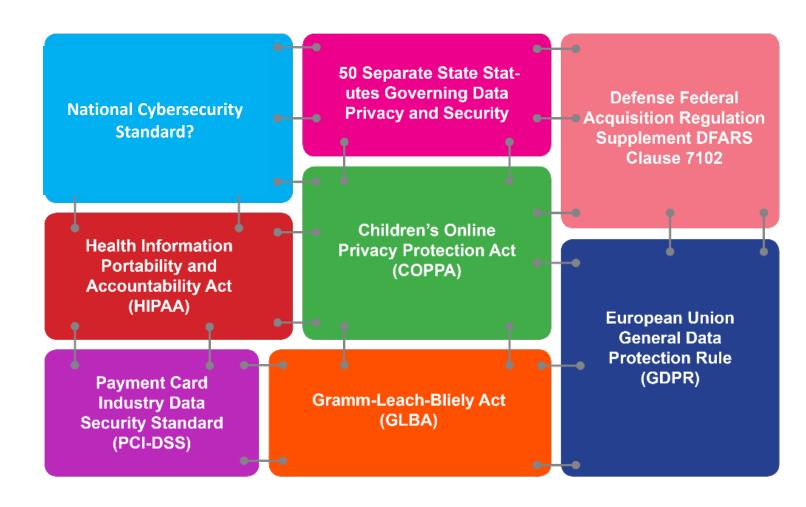
#### **Company Profile:**

- Type: Mobility Dealer
- Revenue: \$7,000,000
- Sensitive Records: ~60K
- 3<sup>rd</sup> Party Hosted website
- Office 365 User
- One Self Hosted Service
- Internal Office Infrastructure





Legal Guidance
"Breach Coach":
\$12,320 for an
average loss event

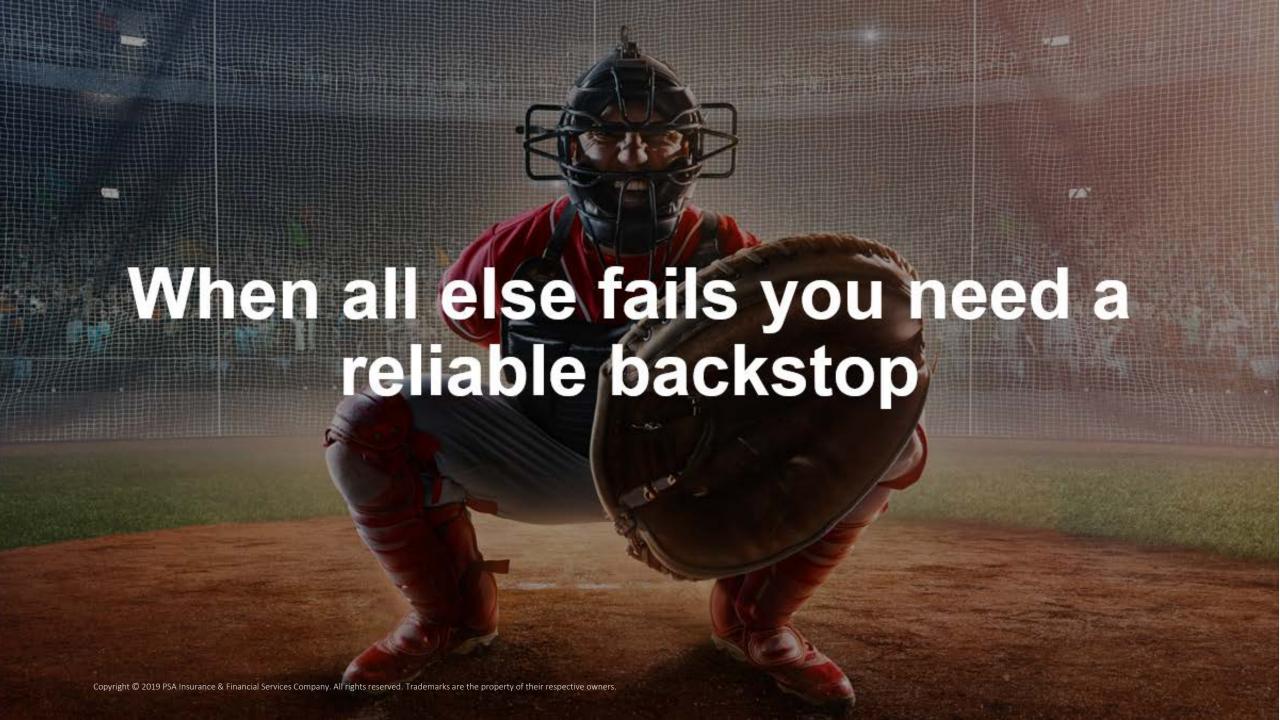




Notification,
Credit Monitoring
and & PR Costs:
\$19,250









# Thank You! Mike Volk P: 443-798-7403 E: mvolk@psafinancial.com