



### **Educate. Protect. Resolve.**

For over 14 years, CyberScout has set the gold standard for identity and data defense services. Our longstanding reputation, industry expertise and scalable approach offer businesses and their customers a trusted ally for:

- Identity Management
- Breach Education, Preparation, Response & Remediation
- Fraud, Credit and Reputation Monitoring
- Cyber Security and Data Privacy Consulting

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Current Global Reach

Galway, Ireland Providence, RI Scottsdale, AZ New York, NY Montreal, Canada Headquarters

17.5
Million Households Million Individuals Preach Services Customers

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**Understanding the Risks** 

### **Data Breaches in the Headlines**

Three Mobile cyber hack: six million customers' private information at risk after employee login used to access database

Security

Sports Direct hacked last year, and still hasn't told its staff of data breach

Hackers publish contact info of 20,000 FBI employees

UK firms could face £122bn in data breach fines in 2018

Energy facility cyber incidents rose nearly a third last year, DHS says

UCF data breach: 63K Social Security numbers compromised

500 million Yahoo accounts breached

Three Mobile cyber attack: Mounting numbers of customers hit following

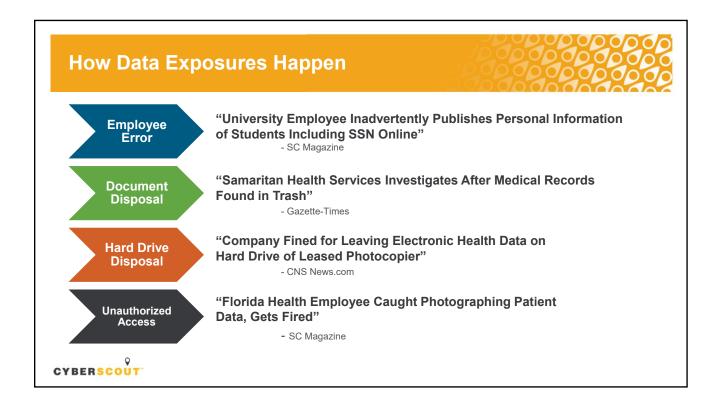
Cyber thieves siphon tax forms from ADP payroll data

November breach

Another Day, Another Hack: 117 Million LinkedIn Emails And Passwords The human problem at the heart of Snapchat's employee data breach

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Monday 13 March 2017 1:36pm





## **Common Cyber Attacks & Exploits**

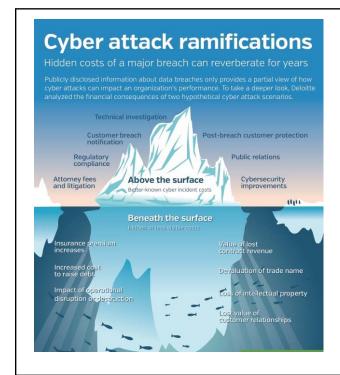
- Social Engineering
- Ransomware
- DDoS/DoS Attacks
- Zero Day Vulnerability
- Malware/Malicious Code
- Spyware
  - Key logger
- Spoofing
- The "Ishes"
  - Phishing, Spear-phishing, Vishing, SMiShing and Whaling

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In **82**% of cases, attackers compromised an organization within minutes

- "Data Breach Investigations Report," Verizon



A 2016 study from Deloitte dissects well-known and not so well known costs of a cyber attack. The below-the-surface costs can be long-running and devastating.

#### Examples include:

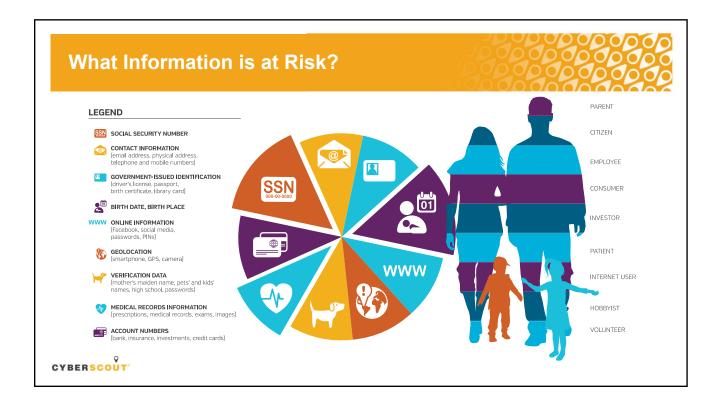
- Lost customer relationships
- Reputational impact
- Customer protection
- Notifications
- Business Interruption

## Who are Cyber Criminals Targeting?

- Large companies collecting, storing or transmitting sensitive data
  - · Insurance carriers, financial institutions, employee benefit providers, governments, hospitals, etc.
- · Small and mid-sized business (SMB) from brick and mortar locations to online services.
  - 28 million small business owners have no confidence in their security<sup>1</sup>
  - 43% of cyber-attacks worldwide struck companies with less than 250 workers<sup>2</sup>
  - 1 in 5 SMBs reported a cyber-attack<sup>3</sup>
  - 48% reported cyber attacks caused service interruption<sup>4</sup>
  - Average cost of a breach for small to mid-size businesses was just over \$180K<sup>4</sup>
- End Consumers (Individuals)
  - From human error –a lost wallet -- to emerging risks like the Internet of Things, mobile devices, connected homes and DDoS attacks

The short answer is EVERYONE is a target!

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## **Defining the Problem**

- Breaches can be terrifying for individuals and businesses alike.
  - Victims need access to valuable preventative education, proactive protection services, and swift and appropriate incident remediation solutions.
- Victims need a trusted partner who goes above and beyond to achieve a successful resolution.
  - Insurance carriers, financial institutions and employers are often the first place victims look for assistance/quidance.
- Lost business is the biggest financial consequence to organizations that experience a data breach.
  - Following a data breach, organizations need a partner to help them take steps to retain customers' trust to reduce the long-term financial impact.



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## **Defining the Problem**

- Cyber security regulations are evolving and organizations need expert guidance about staying compliant and competitive.
  - As regulators shift their focus from post-breach guidance to pre-breach requirements to mitigate risk, organizations of all sizes need experts to help them prepare for changes.
- Organizations that make improvements to their data governance programs can reduce the cost of a data breach.
  - Development of incident response plans, appointment of a CISO, employee training and awareness programs, and a business continuity strategy all result in cost savings.

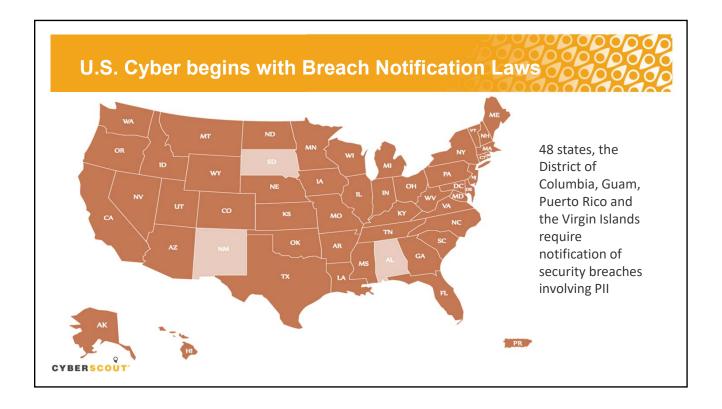


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The Evolution of Privacy & Data Breach Regulations





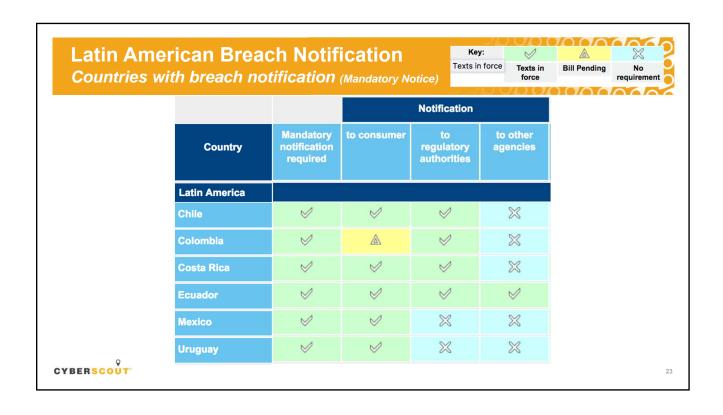
## **The Next Wave of Cyber Regulations**

- Canada's Digital Privacy Act modifying the Personal Information Protection and Electronic Documents Act (PIPEDA) adding data breach notification and reporting requirements
- The New York Department of Financial Services (NYDFS) rules that require DFS-regulated entities to adhere to stringent cyber security requirements
- The European Union General Data Protection Regulation (GDPR) that strengthens data protection for individuals in the E.U. adding data breach notification and reporting requirements
- The E.U.-U.S. Privacy Shield replacing Safe Harbor program to provide more rigorous protection of personal data to facilitate digital commerce across the Atlantic
- Japan's Amended Act on the Protection of Personal Information (December 2016, goes into full effect on May 30, 2017)
- Argentina's DPA releases proposed Bill to update existing regulations making DPA an independent regulator with more power

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#### Chile

- · First Latin American country to enact a data protection law
- Law No. 19,628 sobre Proteccion de la Vida Privada (1999)
  - Absence of <u>any</u> provisions relating to data breach notification requirements
- Data breach notification requirement loosely applied from the Chilean Consumer Act
- Law No. 19,496 (1997)
  - Article 46 requires that a service provider notify its customers in cases of contingencies or risks associated with its product or service.
  - Article 3 grants consumer rights to service/product safety and provides for redress via compensation for damages
  - NO specific provision requiring personal data breach notification
    - o The obligation is inferred; no specific conditions for notification



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#### Costa Rica

- Law on Individual Protection for Processing of Personal Data ('the Law') and Executive Decree N° 37554
- Article 38 of the Decree regulates general data breaches
  - "Any irregularity in the treatment or storage of the data, such as loss, destruction or any similar data breach."
- Article 39 indicates that the data controller (i.e., the party responsible for the data) must inform the data subject and the Data Protection Authority of any security vulnerabilities that have arisen
  - · Within five (5) business days
    - ✓ Required notice to data subjects and DPA
    - ✓ Comprehensive review must be initiated to determine extent of problem and any corrective and preventive actions



#### **Ecuador**

- NO clear breach requirement; covered instead under several different overlapping regulations including:
- > The Constitution of the Republic of Ecuador
  - Guarantees protection of personal data including access and restrictions on the collecting, storage, processing, distribution and circulation.
- Organic Law of the National System of Public Data Register
  - Defines personal data as: ideology, political affiliation, ethnicity, health status, sexual orientation, religion, credit and financial information, and any other data related to the privacy and intimacy of the person.
- Organic Law of Civil Data and Identity Management
  - Creates a personal data registry ('Registro Personal Único' [RPU])
- Electronic Commerce, Data Messages and Electronic Signatures Law



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#### Mexico

- The Federal Law and Regulations on the Protection of Personal Data Held by Private Parties requires breach notification to data subjects under specific circumstances
- Security breaches occurring at *any stage of the processing*, which significantly affect the property or moral rights of a data subject shall be informed immediately by the controller to the data subject, so that he/she can take appropriate action to protect his/her rights.
  - Security breaches which may occur in any stage of the processing are:
    - √ loss or unauthorized destruction;
    - √ theft, misplacement or unauthorized copying;
    - ✓ unauthorized use, access or processing; or
    - ✓ unauthorized damage, alteration or modification.



#### **Mexico**

- · The Regulations state that the data controller must notify the data subject of at least the following:
  - √ Nature of the breach;
  - √ Personal data compromised;
  - √ Recommendations to the data subjects concerning measures they can adopt to protect themselves;
  - √ Corrective actions implemented; and
  - √ How data subjects can get more information regarding the breach.
- Currently:
- DPA notice not required, only notice to data subject(s).
- > DPA has not issued any clarification regarding what should be considered a "significant" damage to property or moral rights of the data subjects.

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## **Uruguay**

- Breach notification is rather loosely applied with the exception of specific requirements for telecoms.
- Similar to the breach notice requirements for telecoms in the E.U.
- Law 18.331 on Personal Data Protection and Habeas Data Action and Decree 414/009 regulates requirements for protection of personal data
- Article 10 specifically regulates security measures to protect personal data and ensure its integrity, confidentiality and availability. The Decree also states the notification requirement for general data breaches.
- Article 20 refers to the protection of personal data specifically in the telecoms sector.

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## **Cyber Insurance Trends**

- Cyber insurance is a potentially huge, but still largely untapped opportunity for insurers and reinsurers
- Any organization that stores and maintains customer information (PII), collects online payment information, or uses the cloud should consider cyber insurance
- PwC estimates that annual gross written premiums are set to grow from around \$2.5 billion today to \$5 billion in 2018 and could reach \$7.5 billion or higher by 2020
- 90% of cyber insurance is purchased by U.S. companies but only around a third of companies in the U.S. have some form of cyber coverage
  - There is a wide variation in take-up by industry, with only 5% of manufacturing companies in the U.S. holding standalone cyber insurance, compared to around 50% in the healthcare, technology and retail sectors
- In the UK, only around 2% of companies have standalone cyber insurance



Source: PwC Insurance 2020 & beyond: Reaping the dividends of cyber resilience



## **Cyber Insurance Overview**

- A cyber (risk/liability) insurance policy is designed to help an organization mitigate risk exposure by offsetting costs involved with recovery after a cyber-related security breach or similar event.
- · Origins in errors and omissions (E&O) insurance by tech companies was expanded to address
  - · software product bringing down another company's network
  - · unauthorized access to a client system
  - destruction of data
  - · virus impacting a customer.
- Cyber insurance today covers expenses related to first parties as well as claims by third parties
  - · Addresses forensic investigations, business losses, data breach notification costs, and legal representation.
- Insurers use different terminologies -- making the policies difficult to read and compare.



## **Cyber Insurance Trends**

- Cyber insurance capacity will continue to increase
- Creates downward pressure on premium rates
- Some insurers may compete by relaxing limits, exclusions and other terms and conditions
- Important to understand the motivations and drivers behind why businesses are purchasing cyber coverage along with their potential risks

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## **Insuring Agreements Explained**

Third Party Coverage	Errors & Omissions (E&O)	Coverage for defense costs and damages arising out of allegations of acts, errors, omissions or negligence in providing services to others. Can include specialized Tech E&O or Miscellaneous Professional Liability cover.
	Security/Privacy	Coverage for defense costs and damages arising out of a 1) failure or violation of the security of a computer system or network or 2) a failure to protect confidential information or any violation of a federal, state, foreign or local privacy statute.  Can include coverage for PCI fines, penalties and/or assessments as well.
	Regulatory	Coverage for costs to respond to a governmental investigation arising out of a privacy event. Includes coverage for fines and penalties to the extent allowed by law.
	Media	Coverage for third party claims alleging libel, slander, copyright/trademark infringement, invasion of privacy, etc. arising out of all content distributed by a company.
First Party Coverage	Breach Response	Coverage for costs to respond to a data breach, including costs to conduct an investigation (including forensics costs) as to the cause of the event, public relations costs, notification costs, costs to offer credit monitoring/ID Theft services.
	Network Interruption	Coverage for loss incurred by the insured following a security failure (usually after a waiting period and subject to a monetary retention). Insurable costs can include extra expense caused by the interruption and lost revenue.
	<b>Data Restoration</b>	Costs to restore/recreate electronic data after a failure or violation of the security of a computer system.
	Cyber Extortion	Coverage for loss incurred by the insured for money paid with the insurer's consent to resolve a cyber security threat and costs to investigate the cause of the threat.

## **Ancillary Coverages Explained**

Employed Lawyers (CCP)

Liability coverage for defense costs and damages arising out of the work done by employed corporate lawyers. Includes coverage for lawyers' actions while providing moonlighting and pro bono services.

Reputation
Guard

First party coverage for public relations costs incurred responding to any act or event that, if or when disclosed in a publication and seen by the company's stakeholders, could have an adverse impact on public perception of the insured.

System Failure

Broadens the first party trigger for network interruption coverage from security failures (e.g. hacks) to any unintentional outage (e.g. computer glitches).

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## **Coverage Types**



#### Privacy Breach Expense

- Legal
- Forensics
- · Crisis management
- Notification
- Call center support
- Credit monitoring
- Fraud remediation
- PR assistance



First-Party Cyber

- Providing assistance for data restoration or recreation, digital assets
- Business interruption
- System/admin failure
- Fund transfer fraud
- Cyber extortion
- Virus removal

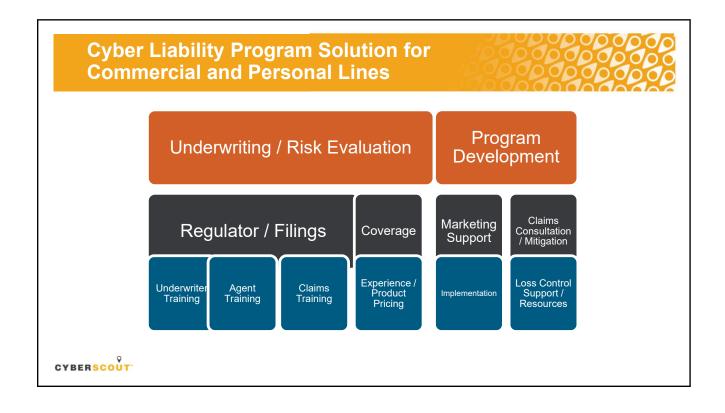


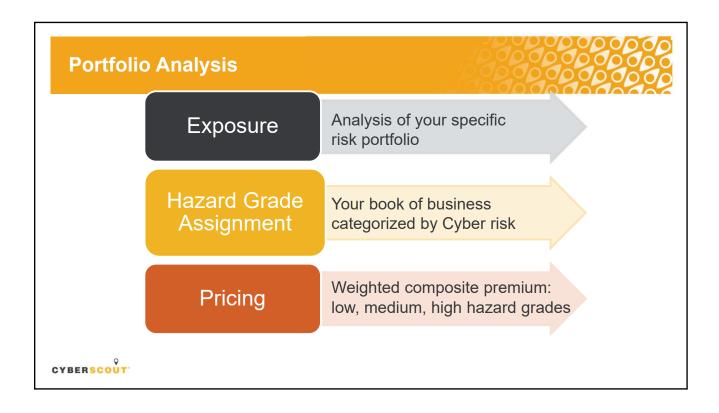
Liability

- Defense and settlement costs
- Fines
- Penalties
- Network security
- Media liability
- Defamation

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## The Next Wave of Cyber Coverage: Personal Cyber Coverage

- Connected technology is reshaping the threat landscape in households.
- Even for technically savvy people, keeping up with protections against cyber threats can be a constant challenge.
- Cyber crime losses in the U.S. alone are nearly double that of property crimes – \$30 billion vs. \$14 billion.
- Cyber protection can help families offset financial and emotional costs of cyber crime.

## Insurers have the opportunity to educate and provide tools to address:

- Extortion threats
- Social engineering
- · Cyber bullying
- · Identity theft
- System compromise
- · Internet cleanup



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- Educate employees about cyber risks and the importance of reputation management.
  - Use caution when clicking on ads or links you receive in messages from friends.
  - Know what you've posted about yourself. Avoid sharing common security questions such as birthday, hometown, high school, father's middle name, current location.
  - Be selective about who you accept as a friend or connection on a social network.
  - Be careful when installing extras on your device or site such as third-party extensions and games.
  - Assume that everything you put on a social media site is permanent even if you delete it.





## **Engage to Learn and Communicate**

## Minimize

#### Educate on emerging risks

- Plan content around seasonal trends
  - · Taxes, back-to-school, holiday
- Encourage regular feedback and engagement
- Survey customer needs and preferences
- Keep a regular cadence of communication

## **Monitor**

- Respond in a timely manner
- Demonstrate empathy
- Route to the the appropriate person/department
  - Is this a customer service issue?
  - Is this a content issue?
  - Is this a product issue?
- Move the communication to a private channel

## Manage

- Initiate Crisis Response Plan
- Communicate facts and what is known (avoid speculation)
- · Reinforce tips and education
- Consider audiences not on social media / alternate channels
  - Email, Newsletters, Hotline
- Manage reputational damage and seek outside counsel/assistance
- Evaluate the effectiveness of the response

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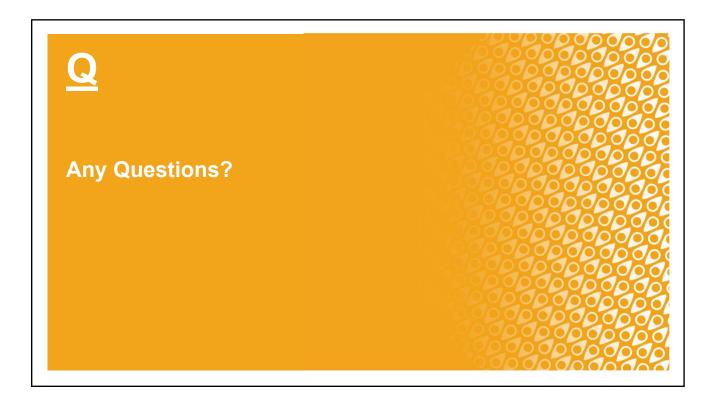
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## **Final Thoughts**

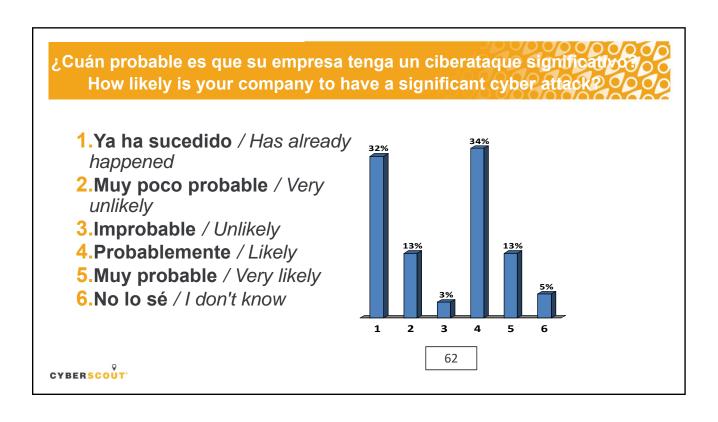
- Cyber risks are beginning to outstrip traditional risks for businesses of all types and sizes -- now a global exposure.
- Regulators worldwide are focusing on consumer privacy in the digital realm.
- The insurance industry has stepped up to tackle the management of cyber risks and it's now spreading to all segments and lines.
- Insurance companies are at high risk of cyber exposures.
- You need an actively managed approach to risk management, response and remediation across the organization.
- Cyber risk = reputation management in the digital age -- if managed effectively, it can provide insurance companies with a market advantage.



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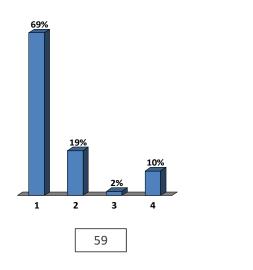




¿Su organización ha considerado ofrecer seguros cibernéticos a sus asegurados en líneas personales o comerciales.

Has your organization considered offering cyber insurance to either your personal or commercial lines policy poders?

- 1.no estamos considerando / not considering
- 2.estamos investigando actualmente / currently researching
- 3.lanzaremos un seguro cibernético en 2018 / we will be launching cyber insurance in 2018
- 4.ofrecemos seguros cibernéticos a nuestros asegurados / we do offer cyber insurance to our policyholders



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