



Welcome to the Cyber Risk Insights Conference!





Opening Remarks



Rebecca Bole EVP, Editor-in-Chief Advisen







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The **right** information into The **right** hands at The **right** time To power *performance*







13 countries are represented by our audience today!







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Welcoming Remarks



Matthew Hogg
Underwriting Manager
Strategic Assets
Liberty Specialty Markets
[2016 Conference Chair]





Keynote Address

Sir Tim McClement KCB, OBE Chairman PGI Ltd









What Will the Future of Cyber Risk Look Like?





What Will the Future of Cyber Risk Look Like?



John Scott
Chief Risk Officer
Zurich Global Corporate
Zurich Insurance Group









Sarah Stephens
Partner - Head of Cyber,
Technology, and Media E&O
JLT Specialty
(Moderator)







- Sarah Stephens, Partner Head of Cyber, Technology, and Media E&O, JLT Specialty (Moderator)
- Philippe Cotelle, Head of Insurance and Risk Management, Airbus Defence and Space
- Julia Graham, Technical Director, Airmic















Track





Real Claims Trends

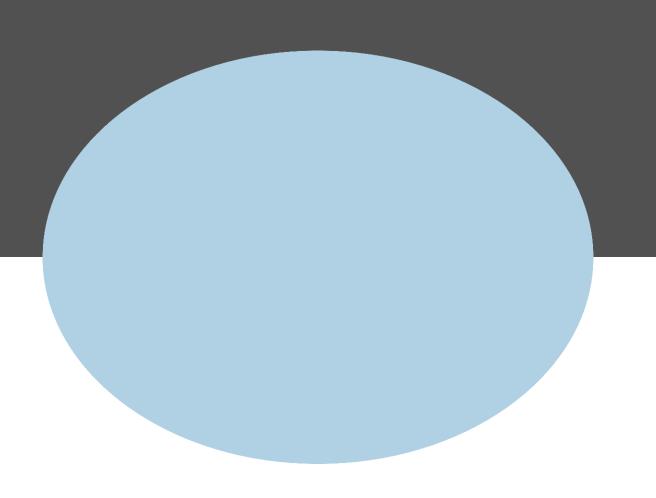




Real Claims Trends



Jim Blinn
EVP & Global Product Manager
Advisen



Real Claims Trends

Jim Blinn
EVP & Global Product Manager
Advisen

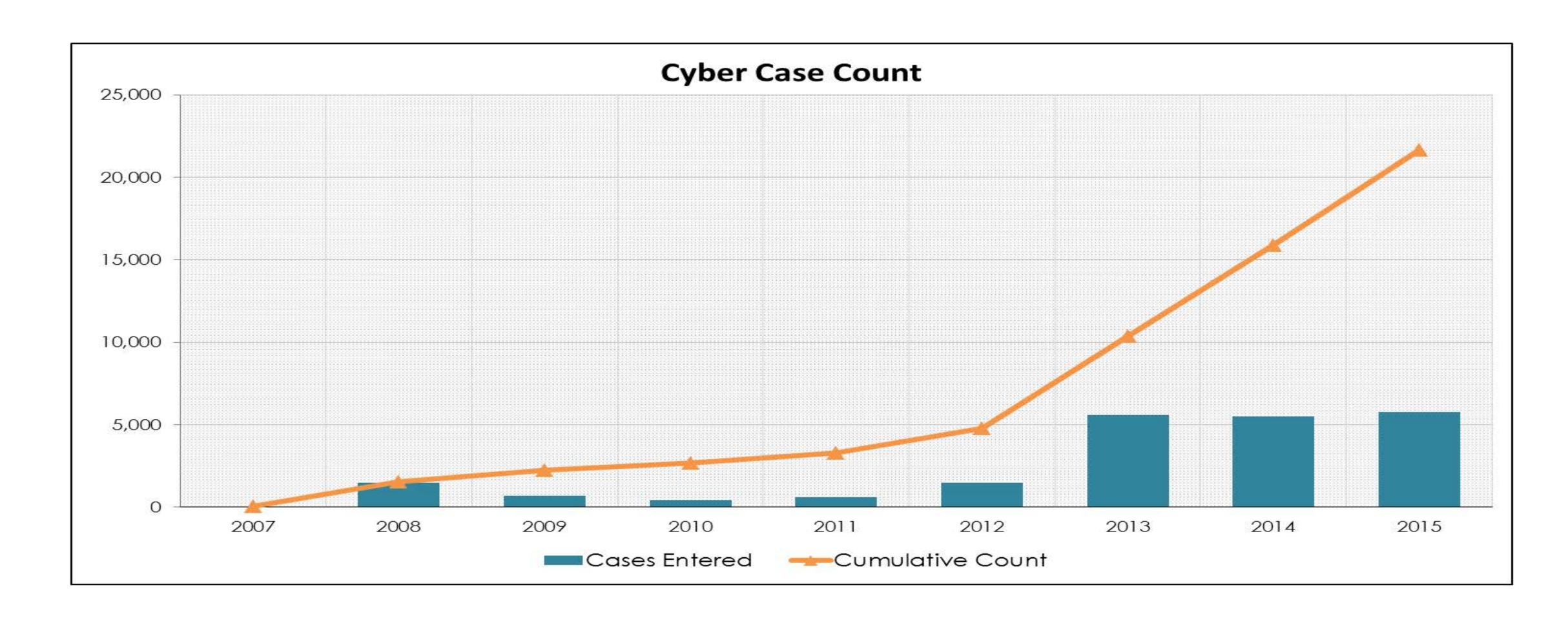


Data Capture Challenges

- Not claims Events and Costs
- Non-US Events
- Looking for...
 - Business Interruption Losses
 - Control System Failures Hacks



Cyber Case Count over Time



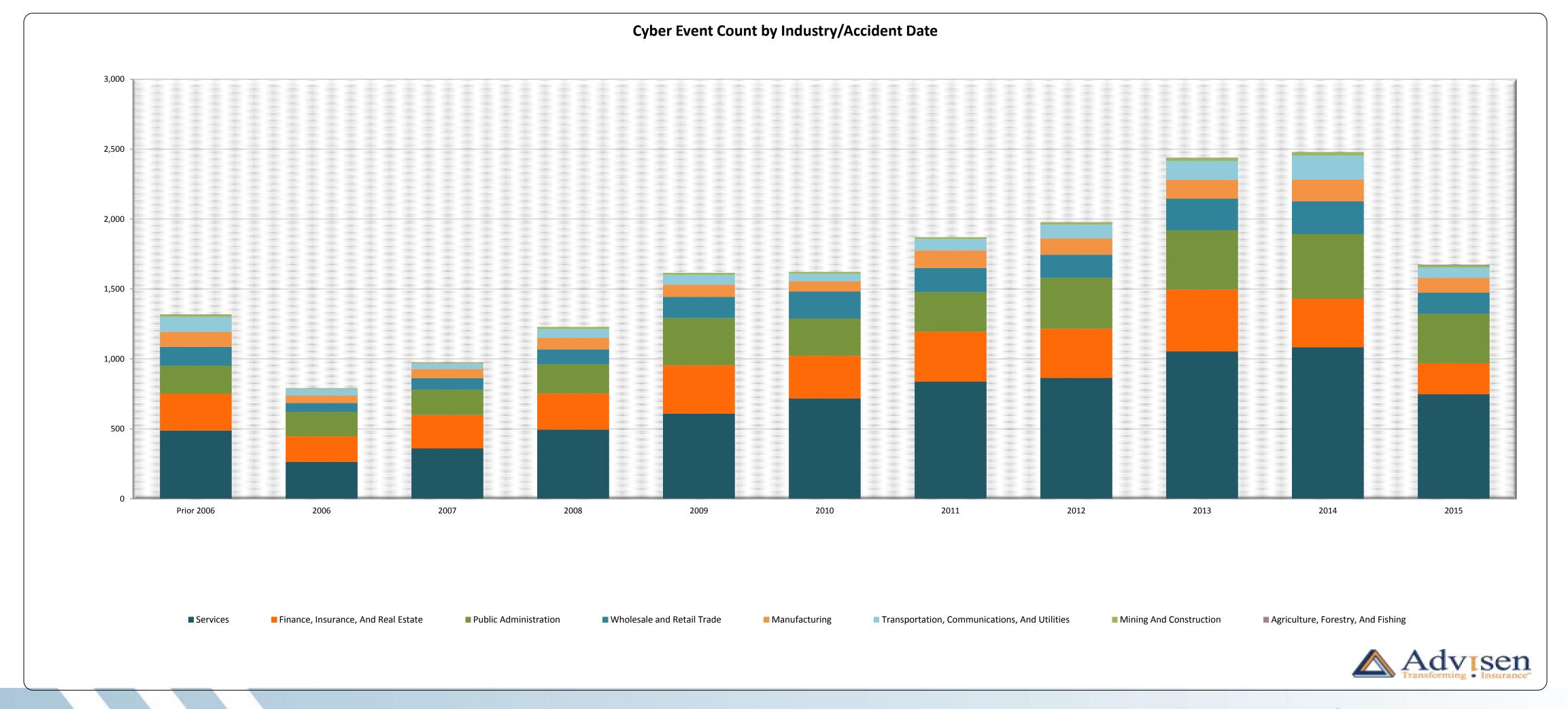


Cyber Case Count Distribution

		Response	Economic	Litigated	Fines &	
Case Type \ Case Status	Event	Costs	Loss	Cases	Penalties	Total
Digital Data Breach, Loss, or Theft	11,306	80	227	527	129	12,269
Privacy Violations	1,334		3	1,270	123	2,730
Improper Disposal/Distribution, Loss or Theft						
(Printed Records)	2,308	7	25	127	60	2,527
System/Network Security Violation or Disruption	1,783	20	61	30	10	1,904
Phishing, Skimming	672	1	78	38	5	794
Identity Theft/Fraudulent Use or Access	152	1	355	183	19	710
Improper Collection of Digital Data	274			285	42	601
Digital Asset Loss or Theft	95		13	22	2	132
Cyber Extortion	79	1	12	1	1	94
Undetermined/Other	49					49
Total	18,052	110	774	2,483	391	21,810

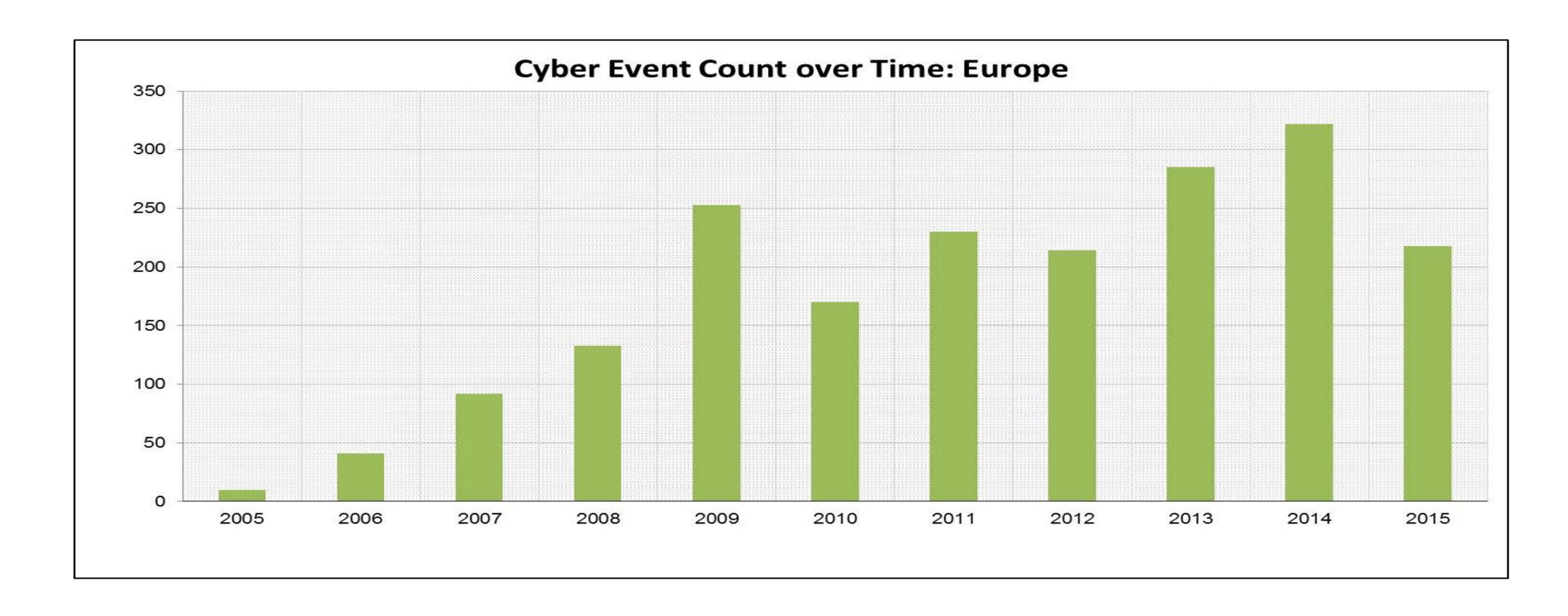


Cyber Event Count



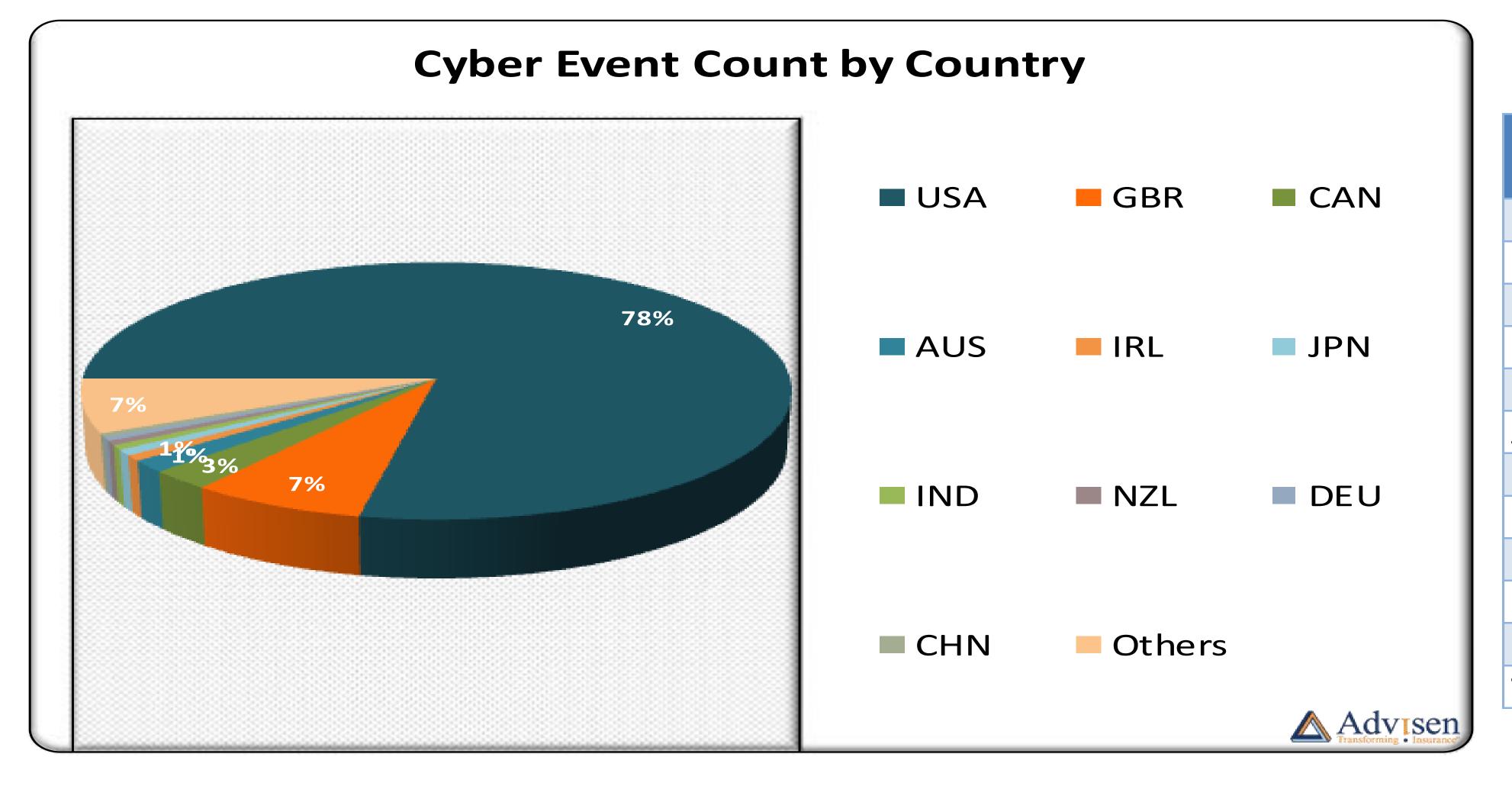


Cyber Event Count





Cyber Event Geographic Distribution



Case			
Count			
14,112			
1,320			
466			
279			
137			
132			
108			
102			
86			
84			
1,226			
18,052			

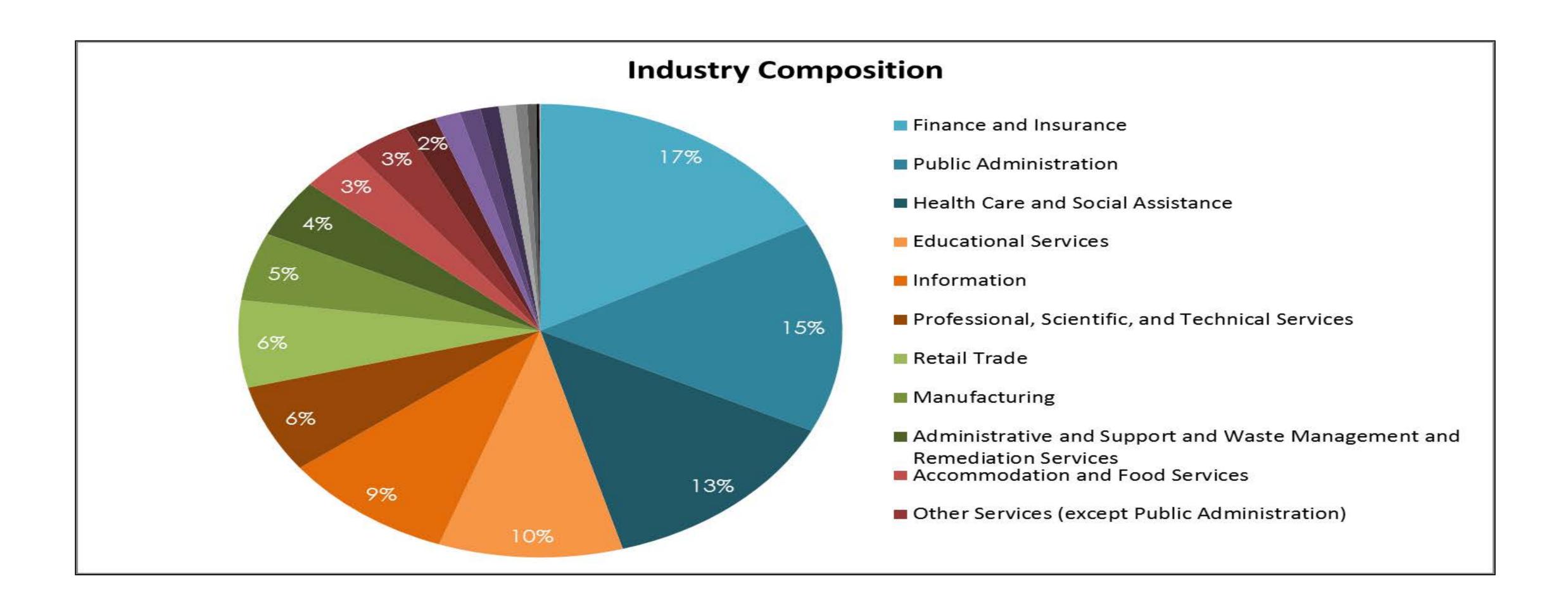


- Cyber Risk Heat Map



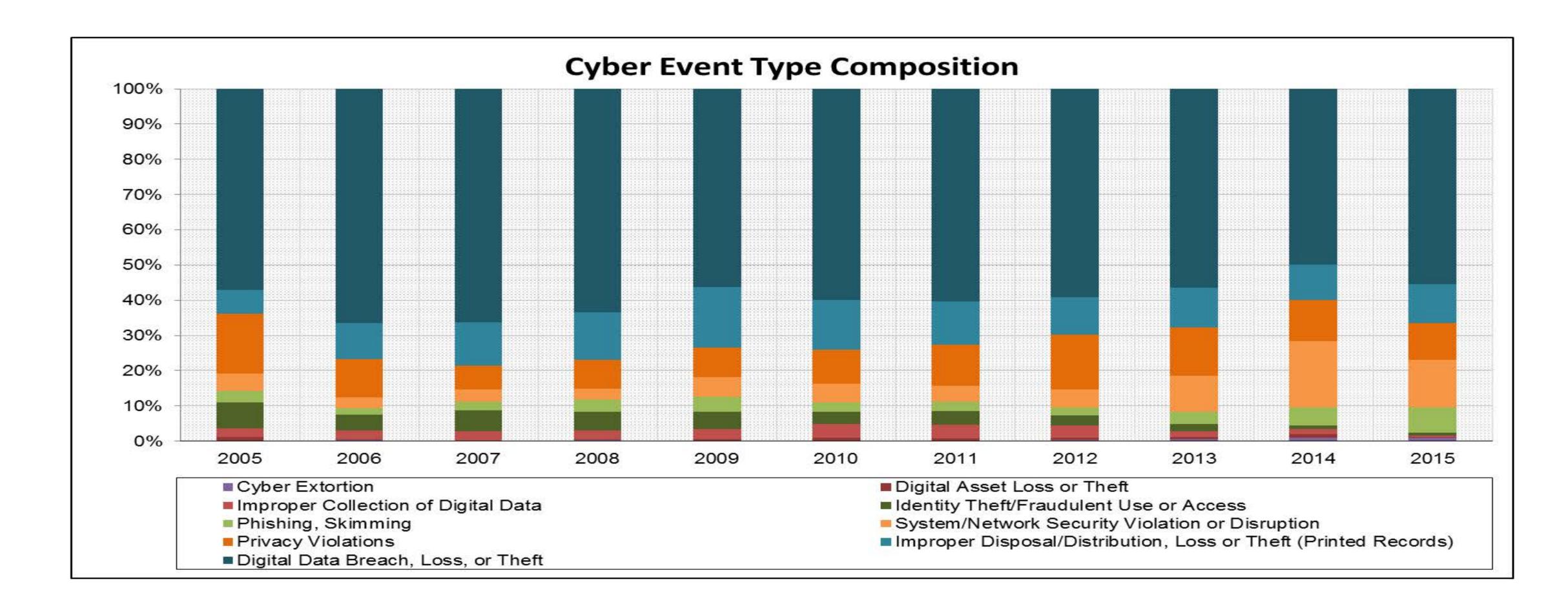


Industry Composition



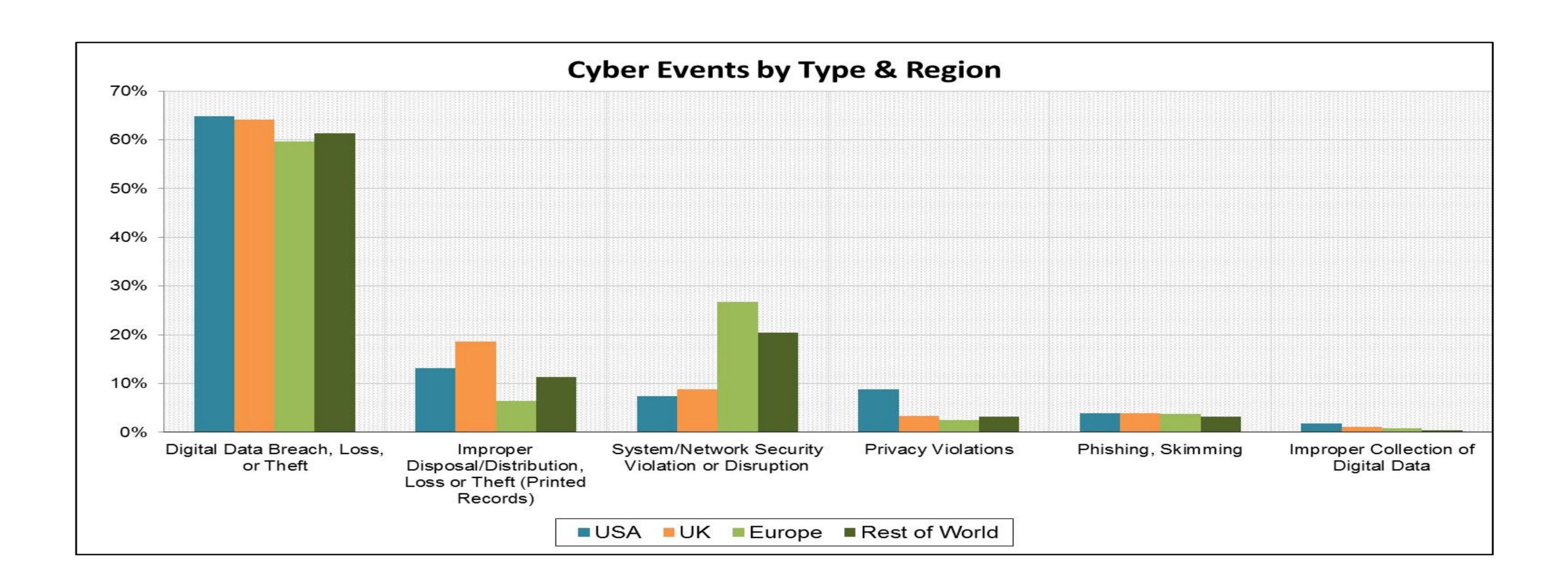


Cyber Event Type Composition



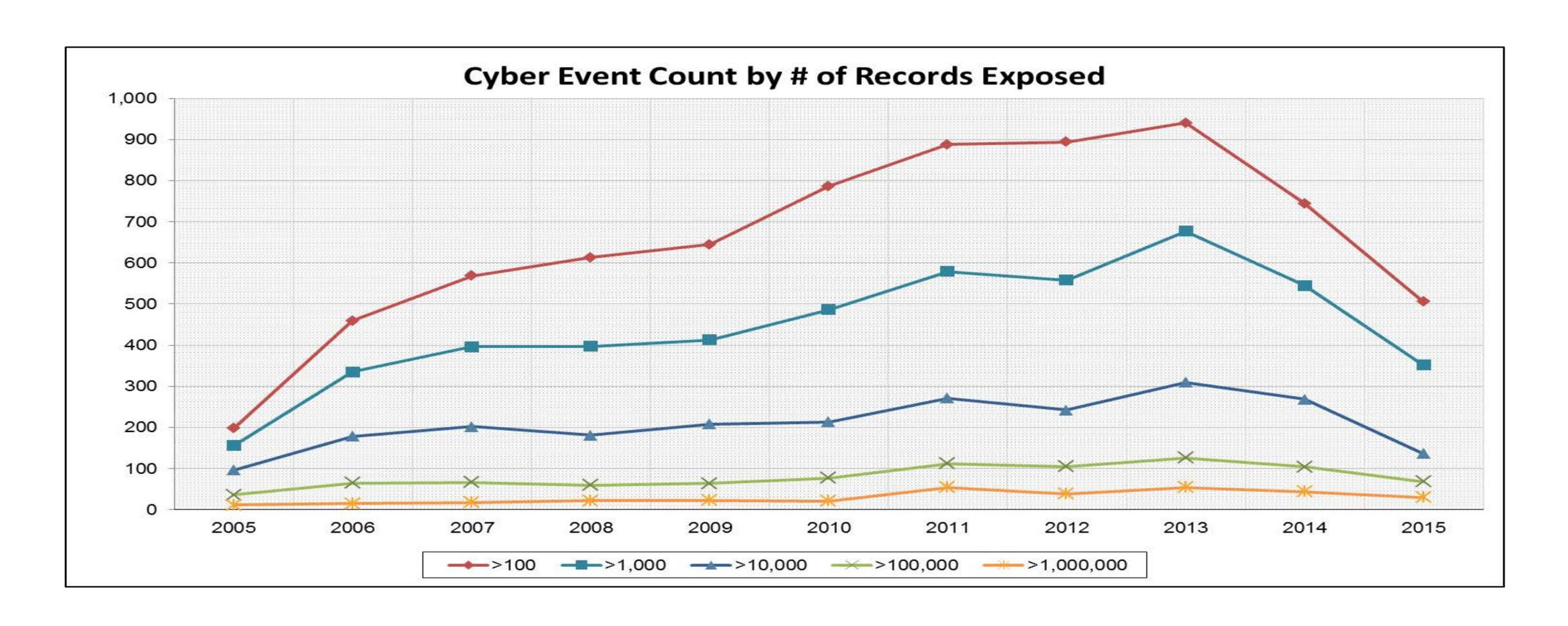


Cyber Events by Type & Region



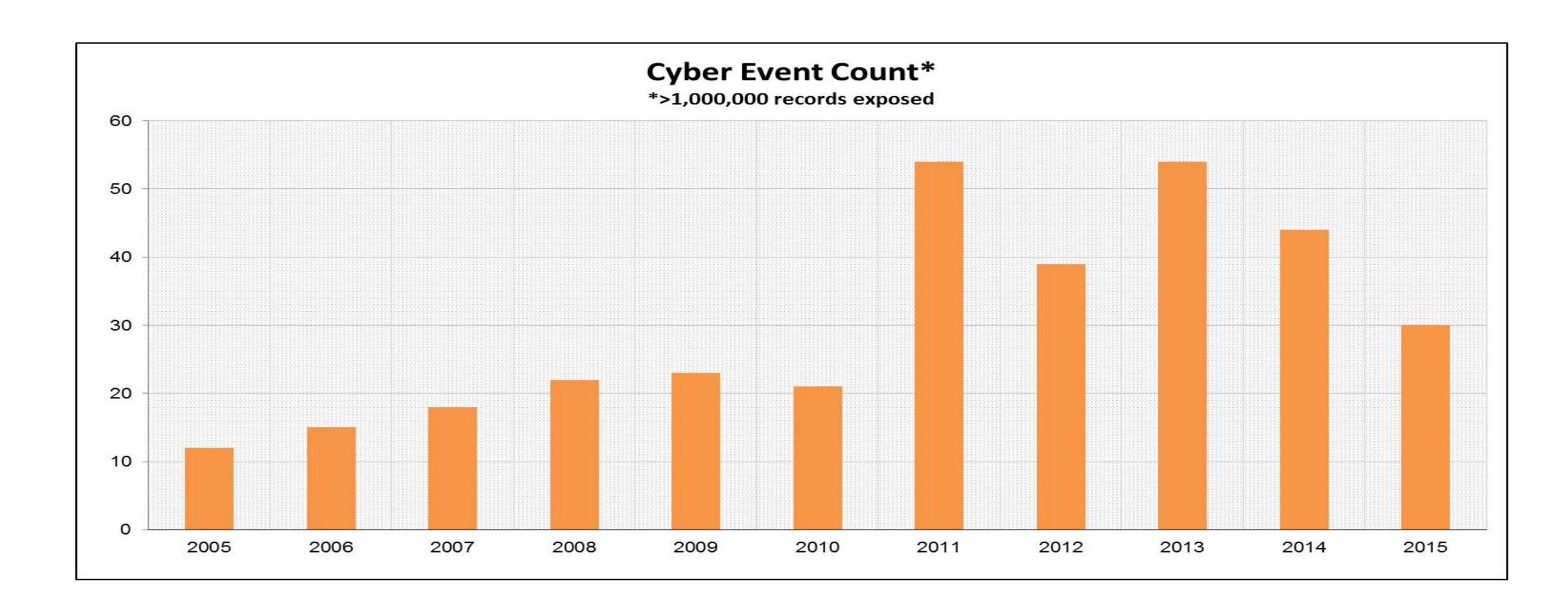


Cyber Event Count by # of Records



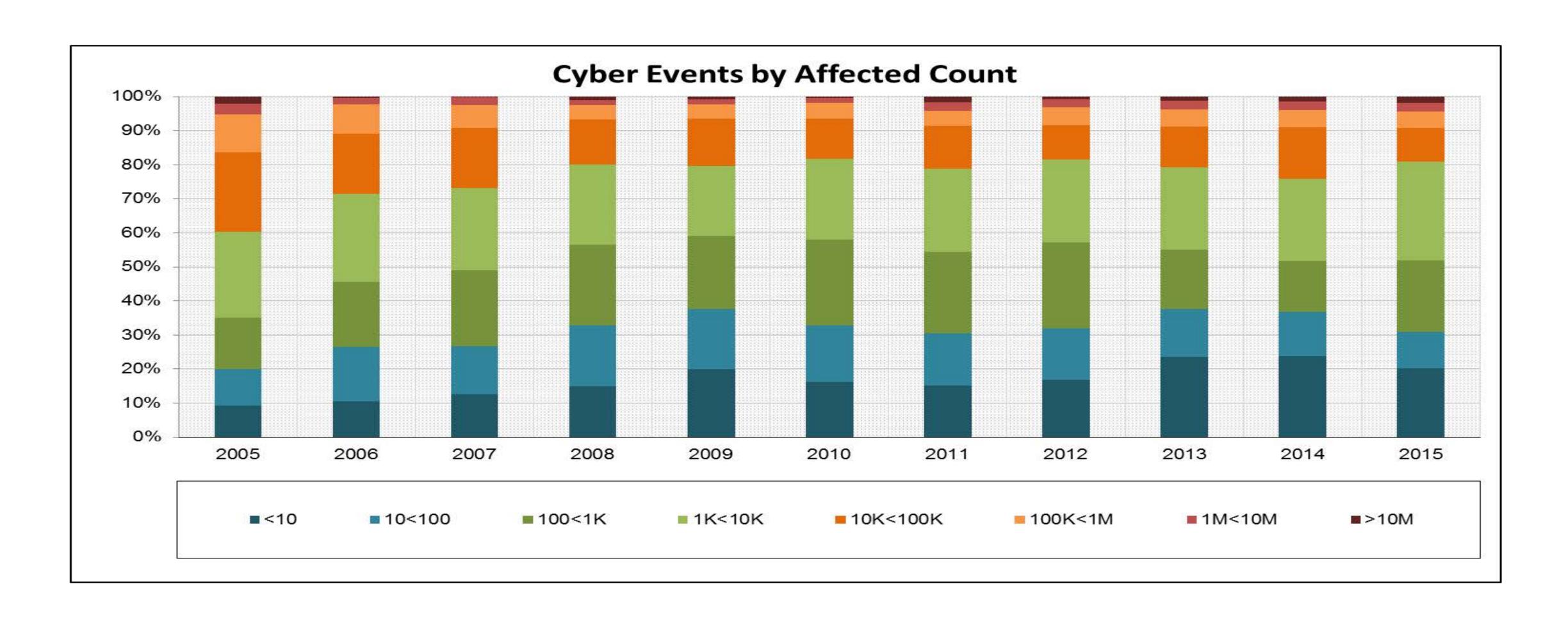


Cyber Event Count (>1M records exposed)



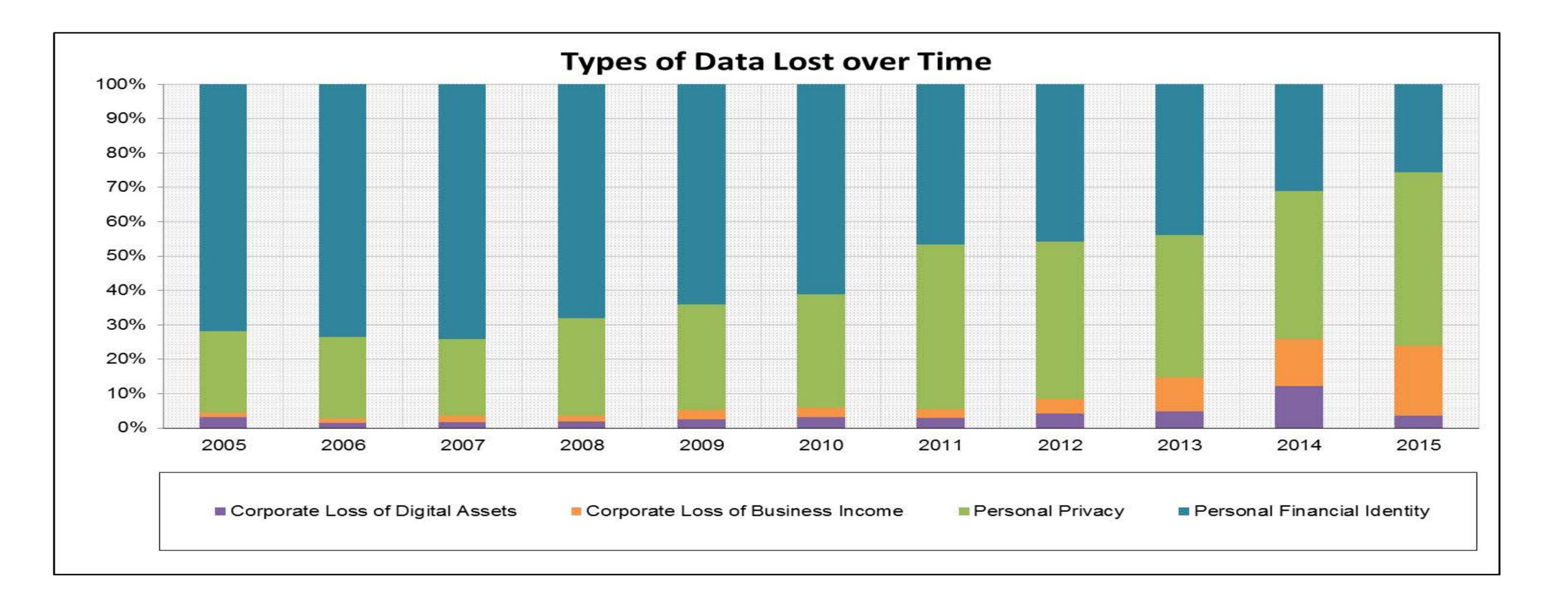


Events by Affected Count





Types of Data Lost



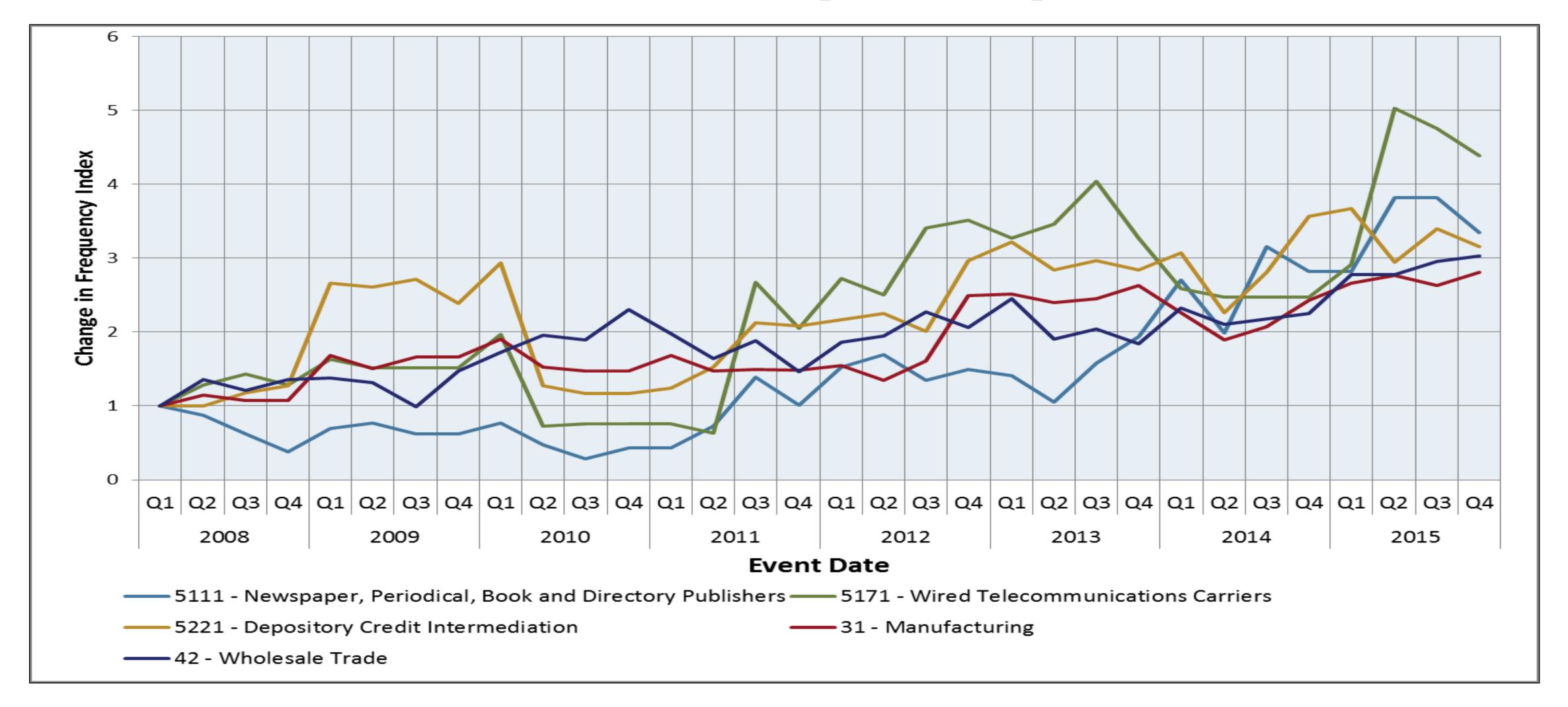


Types of Data Lost by Industry

Industry Group	Personal Financial Identity	Personal Privacy	Corporate Loss of Business Income	Corporate Loss of Digital Assets
Agriculture, Forestry, Fishing and Hunting	85.71%	14.29%	0.00%	0.00%
Accommodation and Food Services	75.63%	20.42%	2.92%	1.04%
Finance and Insurance	70.31%	22.93%	4.23%	2.54%
Real Estate and Rental and Leasing	64.08%	25.35%	6.34%	4.23%
Retail Trade	60.00%	34.78%	3.56%	1.67%
Educational Services	58.69%	35.24%	4.03%	2.05%
Construction	55.68%	30.68%	10.23%	3.41%
Transportation and Warehousing	55.61%	30.61%	11.22%	2.55%
Administrative and Support and Waste Management	50.84%	42.28%	4.03%	2.85%
Manufacturing	48.56%	34.05%	8.33%	9.05%
Other Services (except Public Administration)	48.23%	40.93%	7.30%	3.54%
Wholesale Trade	47.97%	37.40%	8.54%	6.10%
Management of Companies and Enterprises	47.24%	31.50%	14.96%	6.30%
Utilities	47.22%	38.89%	8.33%	5.56%
Health Care and Social Assistance	47.16%	50.44%	1.30%	1.09%
Arts, Entertainment, and Recreation	45.96%	39.13%	5.59%	9.32%
Public Administration	42.31%	42.96%	7.90%	6.83%
Professional, Scientific, and Technical Services	40.15%	42.59%	11.17%	6.08%
Mining, Quarrying, and Oil and Gas Extraction	29.17%	16.67%	37.50%	16.67%
Information	26.72%	51.40%	13.81%	8.08%

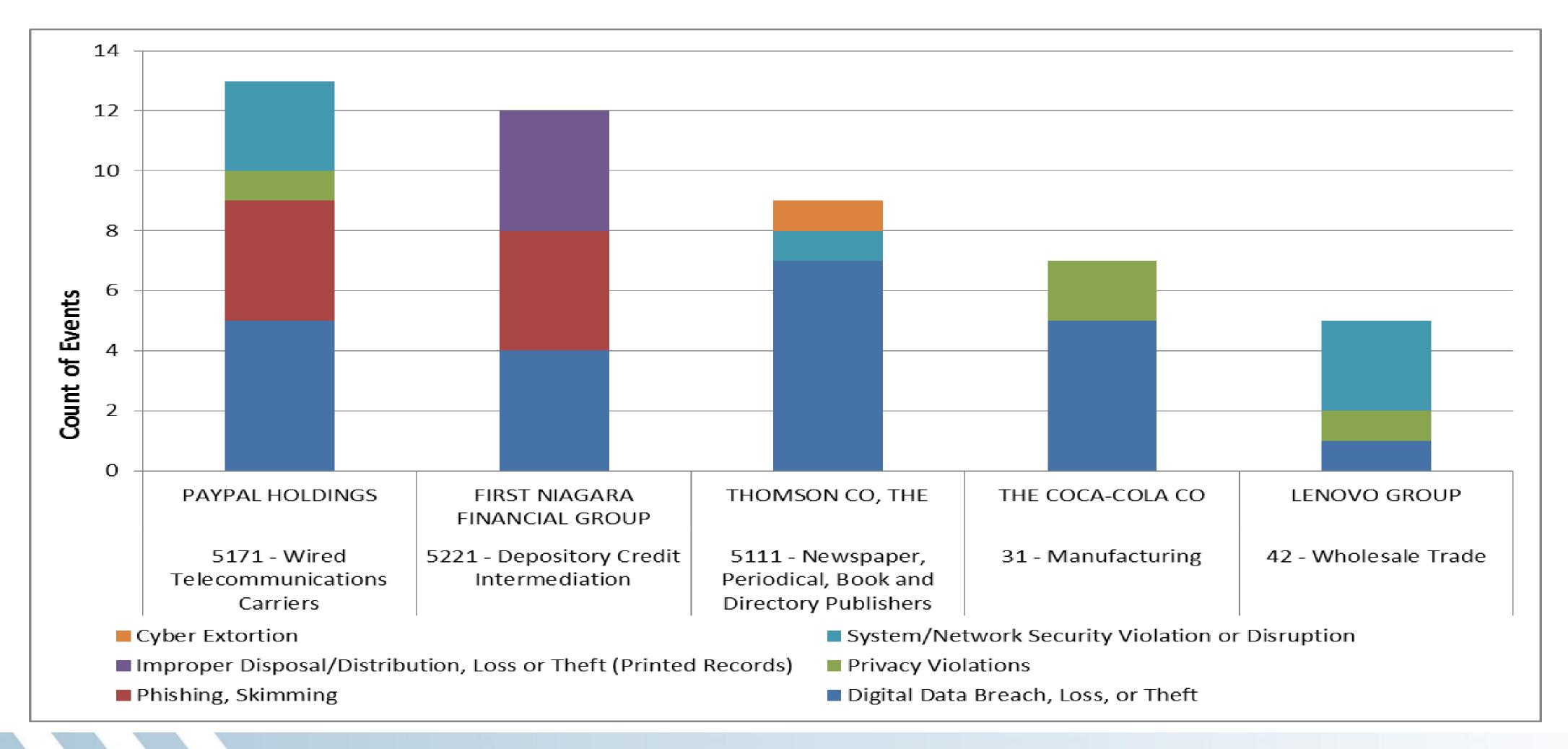


Year-Over-Year Frequency Increase



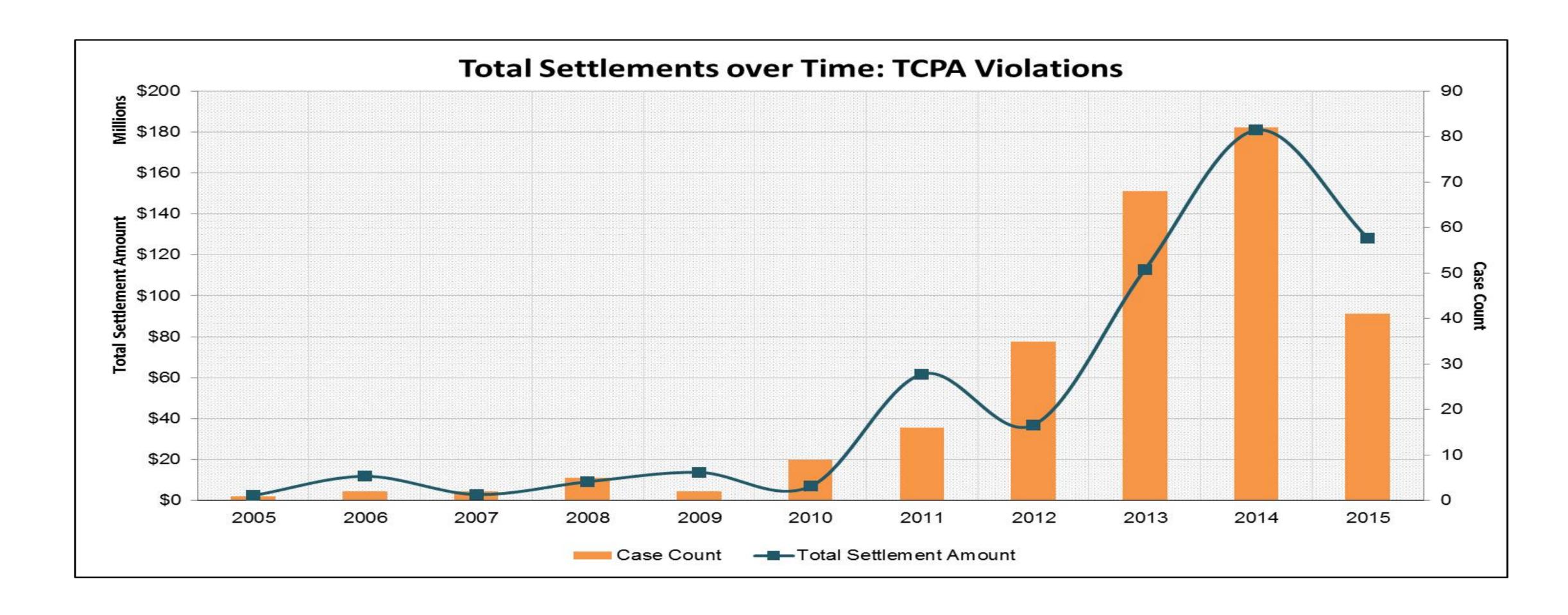


High Event Count Companies





- TCPA Violations



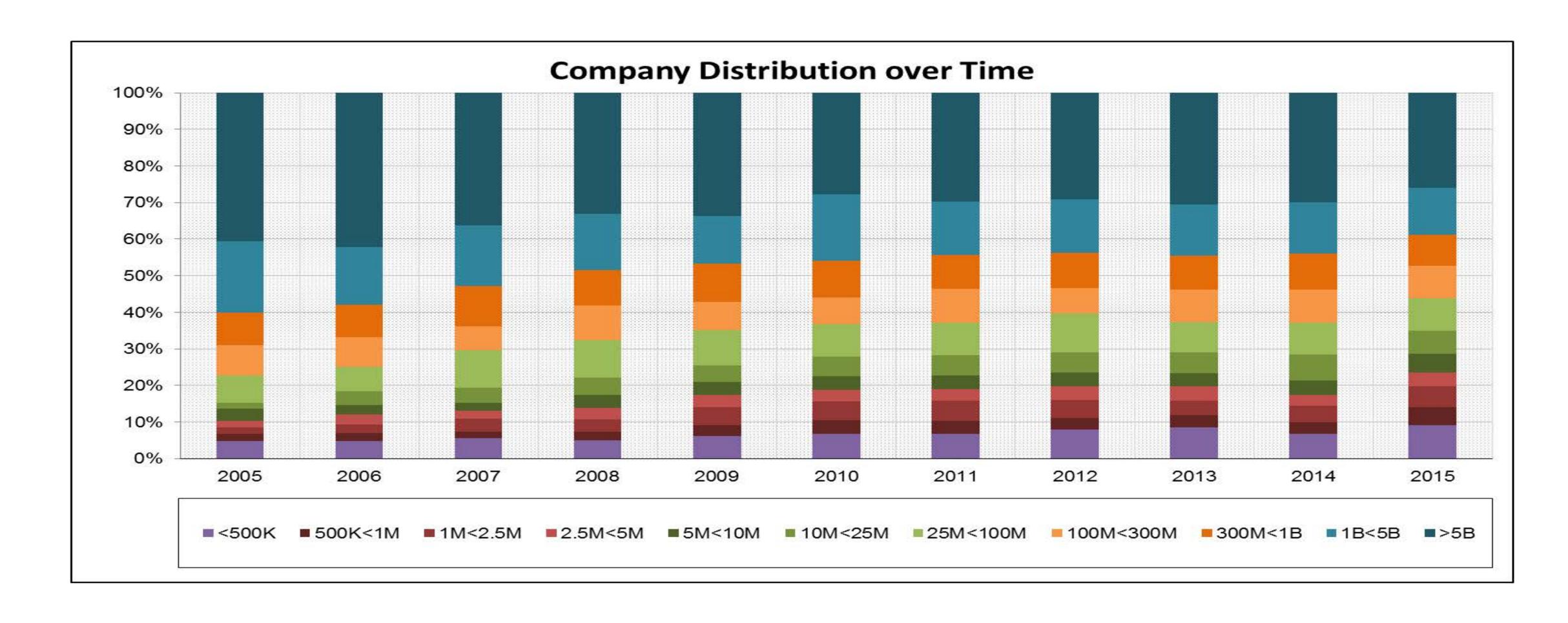


Cyber D&O Cases

Company	Year	Type	Status	Total Loss
The TJX Companies	2007	Derivative	Settled	\$0.5M
Heartland Payment Systems	2009	SCAS & Derivative	Dismissed	
News Corporation	2011	SCAS & Derivative	Settled	\$139M
Target Corporation	2014	Derivative	Pending	
Wyndham Corp.	2014	Derivative	Dismissed	
The Home Depot	2014	Derivative	Pending	
Xoom Corporation	2015	SCAS	Pending	
MobileIron	2015	SCAS	Pending	_

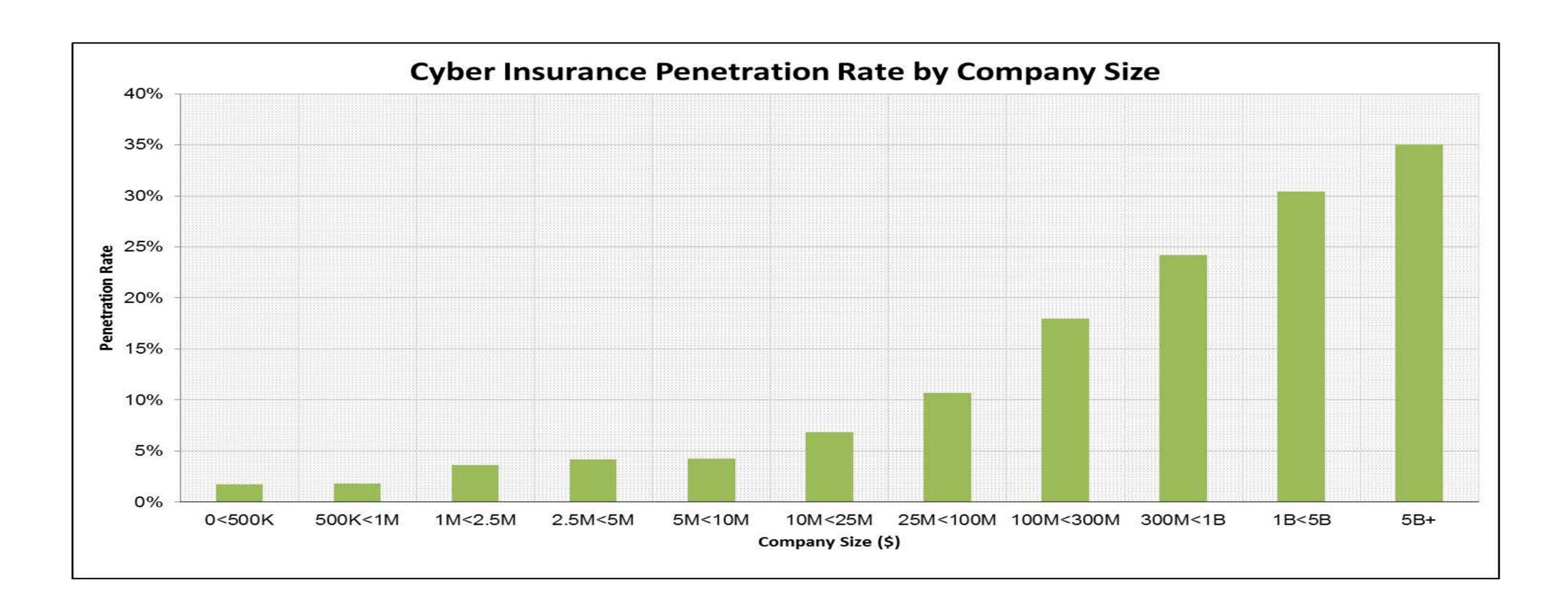


Company Size Distribution



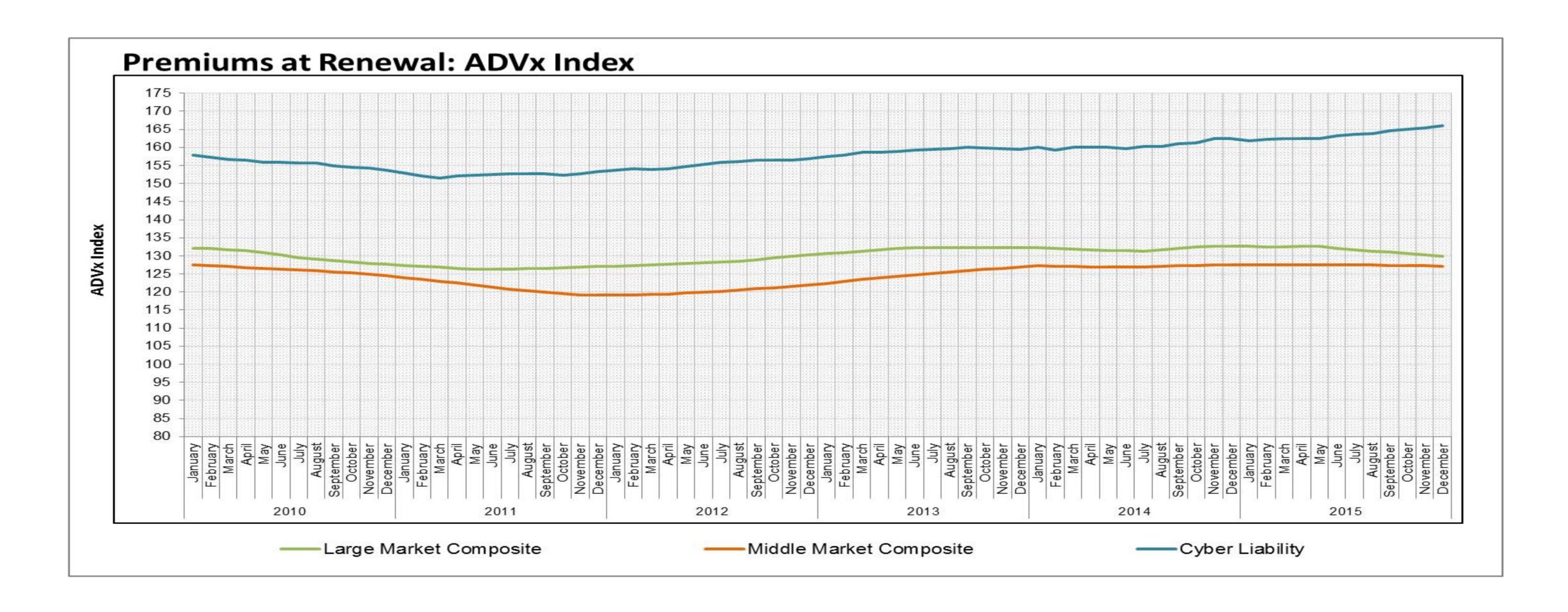


Cyber Penetration Rate



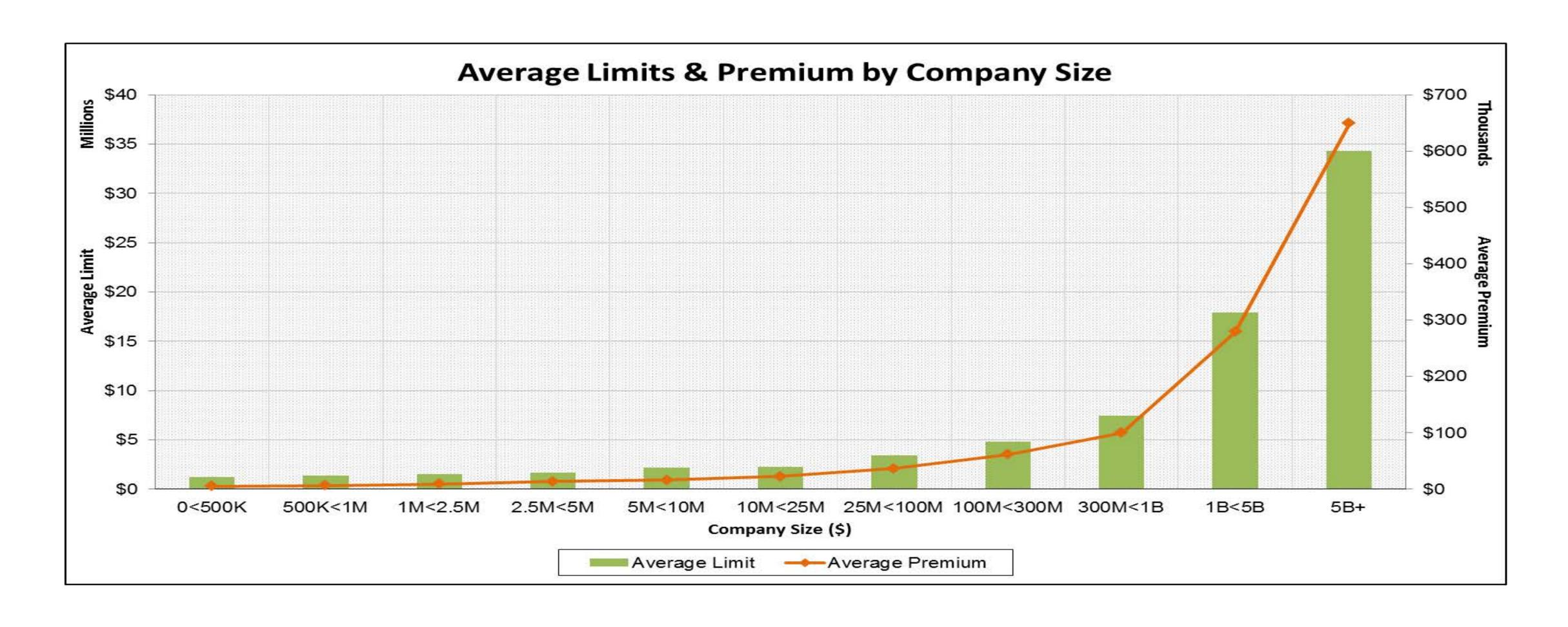


Premiums at Renewal



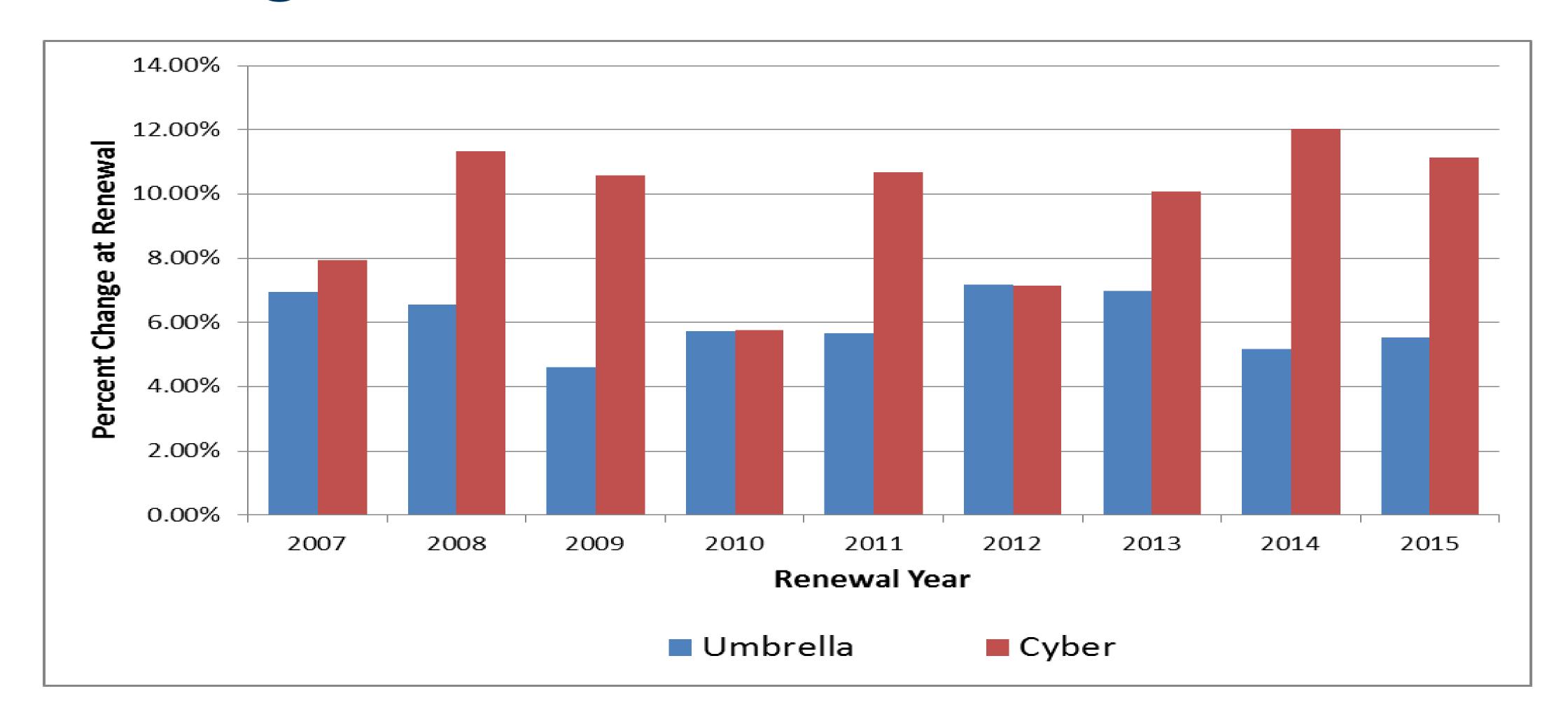


Average Cyber Limits & Premiums





Change in Limits at Renewal





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Advisen delivers:
the right information into
the right hands at
the right time
to power performance.

About Advisen Ltd.

Advisen is leading the way to smarter and more efficient risk and insurance communities. Through its information, analytics, ACORD messaging gateway, news, research, and events, Advisen reaches more than 150,000 commercial insurance and risk professionals at 8,000 organizations worldwide. The company was founded in 2000 and is headquartered in New York City, with offices in the US and the UK.









Erica Constance
Senior Vice President
Paragon Brokers
(Moderator)







- Erica Constance, Senior Vice President, Paragon Brokers (Moderator)
- Hans Allnutt, Partner, DAC Beachcroft LLP
- James Berry, Senior Claims Adjuster, Brit Global Cyber Privacy & Technology
- Sandra Cole, UK & International Breach Response Manager and Claims Manager, Beazley Group
- Neil Hare-Brown, CEO, STORM Guidance
- Kari A. Timm, Partner, BatesCarey LLP





















Q1: Are claims being made under cyber policies in Europe?





Q2: What is it about cyber claims that are different to other insurance claims?





Q3: Is there a difference between first and third party loss events and a difference in the response required?





Q4: How can policy consent provisions cause a disconnect between insureds and insurers?





Track





Is Cyber Accurately Priced?





Is Cyber Accurately Priced?



Dan Trueman Head of Cyber Novae



William Wright SVP
Paragon Brokers











Rebecca Bole EVP, Editor-in-Chief Advisen (Moderator)





- Rebecca Bole, EVP, Editor-in-Chief, Advisen (Moderator)
- Matthew Hogg, Underwriting Manager, Strategic Assets, Liberty Specialty Markets
- Russell Kennedy, Divisional Director Property, Political Violence and Political Risks, Brit Insurance
- Ben Nicholls, Executive Producer, MGA & Programme Solutions, Aon Benfield
- Andreas Schlayer, Senior Underwriter Cyber Solutions, Munich Re



















Should Cyber Terrorism be Shouldered by the Insurance Market?

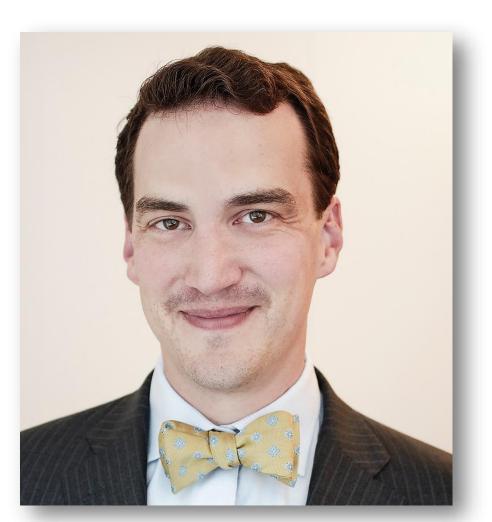




Should Cyber Terrorism be Shouldered by the Insurance Market?



Simon Milner
Broker/Producer
Miller Insurance



Max Perkins
Senior Vice President
Lockton Companies LLP





Advisen London 9 February 2016

Cyber Terrorism
Simon Milner - Miller
Max Perkins - Lockton





Cyber Attacks

Major Cyber Attack on US Power Grid is likely Forbes Magazine US Homeland Security

Huge Rise in Hack attacks as cyber criminals target small businesses A \$445B economic threat you aren't prepared for



9 FEBRUARY 2016 LONDON



Pool Re

Traditional terrorism is on the rise
17,958 people killed in terrorist attacks
9,814 terrorist attacks in 87 countries in last year
82% of those killed were in just five countries
Pool Re scheme set up in 1993 (wake of IRA bombings) by the insurance industry in cooperation with the UK government
Mutual reinsurer whose members comprise major insurers and Lloyd's syndicates
2002 changes broadened coverage following commercial reinsurers' withdrawal from the terrorism market for acts beyond fire or explosion







Pool Re (cont.)

Provides a guarantee which ensures insurers can provide cover for losses resulting from an act of terrorism

Owned by members and underpinned by HM Treasury

Pool Re pays premium to government for the guarantee

Reserves currently at \$5.5 billion

In past 20 years Pool Re fund has paid out on 13 separate incidents covering losses of over £600m





Terrorism Risk Insurance Act (TRIA)

Signed into law in 2002 to provide a terrorism backstop to insurance claims. Program triggered by event determined to be Terrorism by the US Government. Industry-wide retention of USD 27.5billion with and annual cap of USD 100billion.





'Cyber Re'

Does the market need it?
Should it just be UK/Europe or include USA
Should it cover purely electronic attack that causes electronic damage and any resultant business interruption
Or should it cover property damage and bodily injury plus any resultant business interruption





Cyber Terrorism

Cover widely available in the marketplace
Electronic attack causing electronic damage
Emerging cover for BI/PD
Comes with a typical additional premium
Take-up is limited in general for cyber coverage





State of the market (generally)

Small % of companies buy cyber in UK
Even fewer have cyber terrorism
Small to medium sized businesses not thought to be focal point of attack
for a cyber terrorist
Growing % of companies in USA
USD 3billion spent in 2015
USD 5-7billion in next three years
USD 20billion in 5-7 years





Is there a case for Cyber Re?

Means of production likely to be the target
Utilities and critical infrastructure
Aggregation of data exposure (sideways/clash)
Cyber has no bounds...how does Pool Re work for cyber terrorism act out side of the UK?
Historically not much nation vs nation
Stuxnet





Track2





Harnessing the Numbers





Harnessing the Numbers

Nick Beecroft

Manager,
Emerging Risks & Research
Lloyd's
(Moderator)



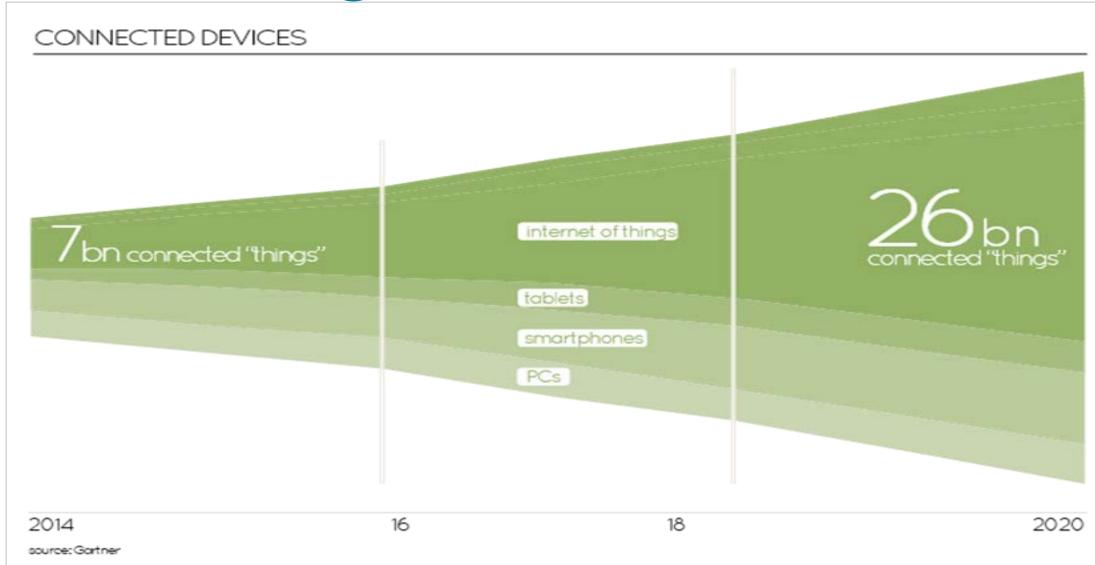




Harnessing the Numbers

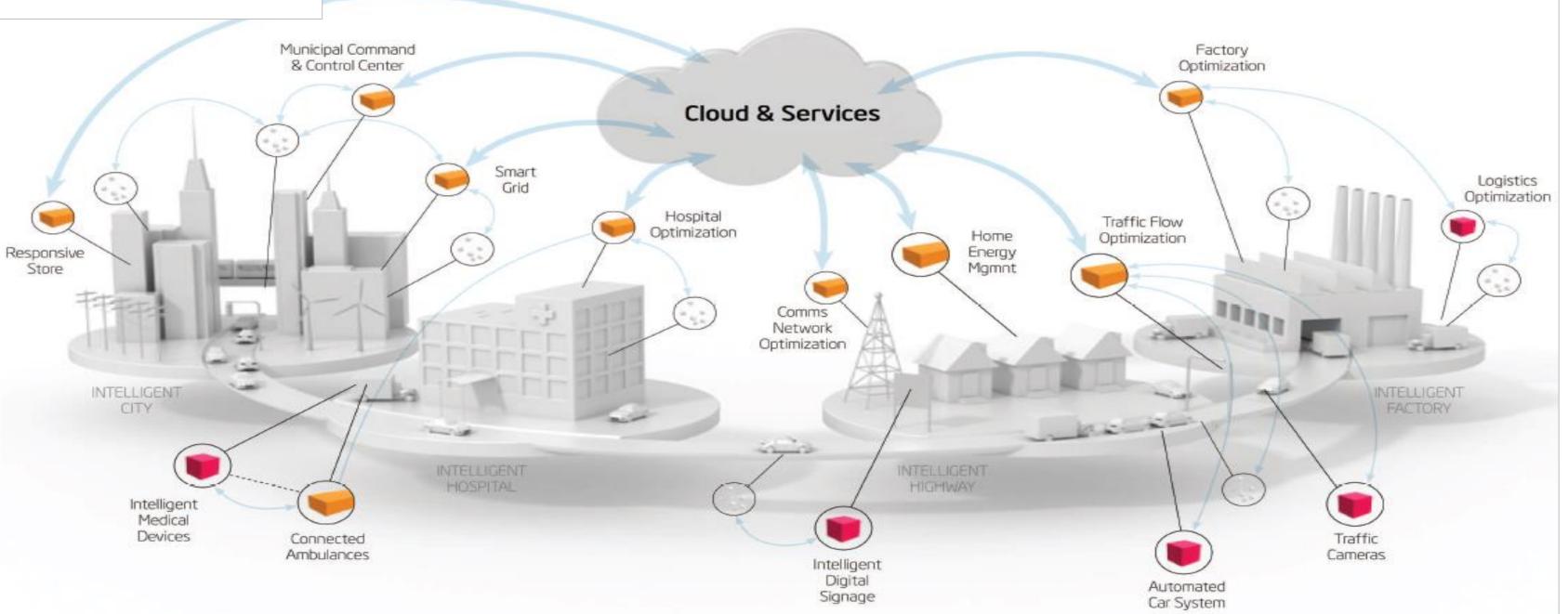
- Nick Beecroft, Manager, Emerging Risks & Research, Lloyd's (Moderator)
- Neil Arklie, Senior Product Manager for Cyber and Technology, Swiss Re
- Daljitt Barn, Head of Cyber, Munich Re
- Stephen Boyer, CTO & Co-Founder, BitSight
- Alastair Mole, Executive Director Non-Marine Specialty, Willis Re
- Scott Stransky, Manager, Principal Scientist, AIR

The digital revolution



Source: Gartner

www.informationisbeautiful.net

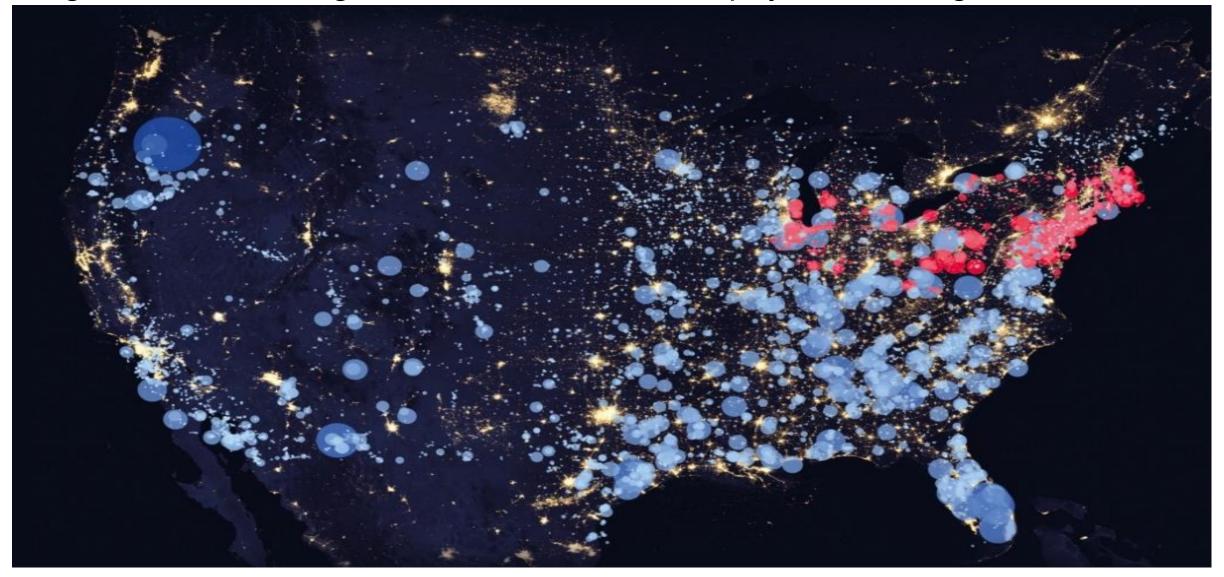


LLOYD'S

Cyber attack against the US power grid www.lloyds.com/businessblackout







Estimated insurance claims

Power Generation Companies	\$ millions
Property Damage (Generators)	633
Business Interruption (Generator Damage)	3,817
Incident Response Costs	3
Fines - FERC/NERC	4
Other liabilities	_
Defendant Companies	
Liability	2,253
Companies that Lose Power	
Perishable Contents	595
Contingent Business Interruption - Suppliers Extension	6,769
Liability	3,120
Companies Indirectly Affected	
Contingent Business Interruption - Critical Vendor	2,928
Liability	749
Homeowners	
Household Contents	465
Specialty	
Event Cancellation	63
Total	\$ 21,398
	For variant S1





Harnessing the Numbers

















Track2











Cinthia Motley
Partner
Sedgwick LLP
(Moderator)





- Cinthia Motley, Partner, Sedgwick LLP (Moderator)
- Raluca Boroianu-Omura, Manager, Conduct Regulation, Association of British Insurers (ABI)
- Michael Bruemmer, Vice President, Data Breach Resolution Group, Experian
- Laurent Heslault, Chief Security Strategist, Symantec
- Bridget Treacy, Partner, Hunton & Williams LLP



A Big Year for Regulation

- 1. EU-US Privacy Shield 15 minutes
- 2. General Data Protection Regulation (GDPR)
 - 15 minutes

- 3. Network Information Security (NIS) Directive
 - 10 minutes

4. Parliamentary Inquiry on Talk Talk - 5 minutes























Andrew Hill
Senior Associate
Hill Dickinson LLP
(Moderator)







- Andrew Hill, Senior Associate, Hill Dickinson LLP (Moderator)
- Mark Camillo, Head of Professional Indemnity & Cyber, EMEA, AIG
- Ben Maidment, Class Underwriter Global Cyber, Privacy & Technology, Brit Global Specialty
- James Tuplin, TMT Portfolio Manager, Financial & Specialty Markets, QBE























Stephen Wares
Cyber Risk Practice Leader - EMEA
Marsh
(Moderator)





- Stephen Wares, Cyber Risks Practice Leader EMEA, Marsh (Moderator)
- Graeme Newman, Director, CFC
- Michael Schmitt, Vice President, Senior Underwriter Cyber & Technology, Swiss Re Corporate Solutions
- Tim Stapleton, Vice President, Cyber Insurance Product Manager, Chubb





















Melissa Ventrone
Partner
Wilson Elser
(Moderator)







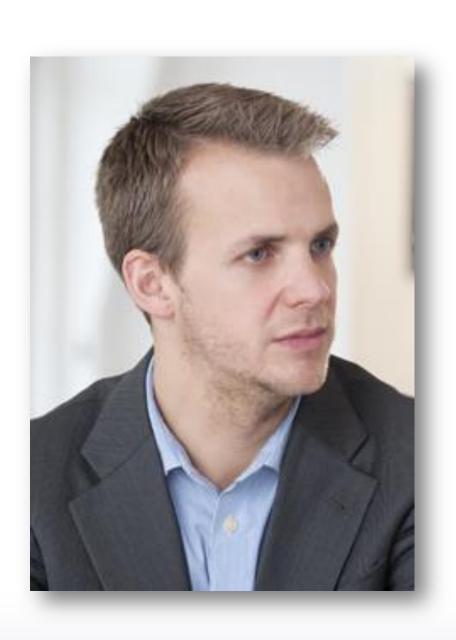
Observation Team:

- Melissa Ventrone, Partner, Wilson Elser (Moderator)
- Charlie Howard, Director, Burson-Marsteller
- Ashley Hurst, Partner, Olswang LLP
- Winston Krone, Managing Director, Kivu Consulting

















Scenario 1

While getting your first cup of coffee, you receive a phone call from the National Crime Agency's National Cyber Crime Unit.

An agent says he has evidence that at least one of your IT systems had been compromised and they believe customer personally identifiable information may have been stolen.

He has asked for a meeting with someone on your executive staff as soon as possible.

Question: Who do you call?

- 1. CIO this is an IT problem at this stage
- 2. Chairman of the Board of Directors take it right to the top
- 3. Communications advisor we need to protect our reputation
- 4. Outside legal counsel we just don't want to get sued





1. What are the possible outcomes of that course of action?

2. What did our case study team do?

3. Takeaways







Scenario 2

The possible theft of customer information has got out to the media.

BBC reporter Abby Salander calls. An anonymous source has informed her that your company has been victim of a hacking attack.

She is preparing a live piece to camera from outside your offices and wants a statement immediately.

Question: How do you respond to the press?

- 1. Refuse to comment
- 2. Say your priority is your customers and consumers so you can't talk to the media right now
- 3. Tell them everything you know at this stage you don't know who the attackers are, your IT systems are in disarray and you hope it's a hoax
- 4. Give them a holding statement that expresses concern but gives no further detail
- 5. Say you cannot comment due to an ongoing investigation





1. What are the possible outcomes of that course of action?

2. What did our case study team do?

3. Takeaways





Scenario 3

Your firm is due to launch your services across Scandinavia next month. There has been widespread publicity of the launch and a significant advertising campaign. The Board of Directors wants to know what the executive committee plans to do, in light of this negative incident.

Question: Do you continue with the launch?

- 1. Yes, we've spent a lot of money and the brand damage would be huge
- 2. Yes, but we tailor our publicity to address how we're handling the current situation in a positive light
- 3. No. Just stop. No explanation, as we need to concentrate on the breach
- 4. No, but devise a communication plan to let the Scandinavians markets know why we're delaying





1. What are the possible outcomes of that course of action?

2. What did our case study team do?

3. Takeaways





Closing Remarks & Reception Sponsored by Symantec



