





Welcome to the Cyber Risk Insights Conference!





Welcoming Remarks



Rebecca Bole
EVP & Editor-in-Chief
Advisen



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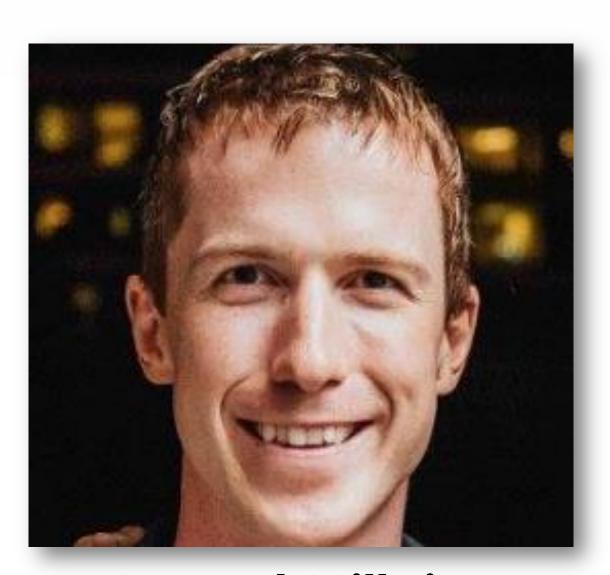




Co-Chair Opening Remarks



Steve Anderson
Vice President, Product Executive –
Privacy & Network Security
Specialty Insurance
QBE



Pascal Millaire
VP & GM
Symantec





Keynote Address

Sean Kanuck

First US National Intelligence Officer for Cyber Issues from 2011-2016 and Advisor at Cyence, Inc



FROM THE DNI'S WORLDWIDE THREAT ASSESSMENT

"Several critical governmental, commercial, and societal changes are converging that will threaten a safe and secure online environment." (2014)

"Cyber threats to US national and economic security are increasing in frequency, scale, sophistication, and severity of impact. The ranges of cyber threat actors, methods of attack, targeted systems, and victims are also expanding." (2015)

"The consequences of innovation and increased reliance on information technology in the next few years on both our society's way of life in general and how we in the Intelligence Community specifically perform our mission will probably be far greater in scope and impact than ever." (2016)

CONCEPTUAL FRAMEWORK

international -> global

cyber - information

security -> risk

GLOBAL INTEROPERABILITY

physical connectivity

technical functionality

politico-economic regulation

TECHNOLOGICAL CONVERGENCE

networks / devices / protocols

infrastructure as a (worldwide) public utility

upstream / downstream integration

cross-sectoral interdependence

INCREASING RATE OF CHANGE

data analytics / machine learning
artificial intelligence / augmented reality
additive manufacturing / materials science

synergy of info + bio + nano

IoT + AI = POTENTIAL VOLATILITY

insecure

decentralized

automated

bi-directional

FROM THE DNI'S 2016 WORLDWIDE THREAT ASSESSMENT

"Countries are becoming increasingly aware of both their own weaknesses and the asymmetric offensive opportunities presented by systemic and persistent vulnerabilities in key infrastructure sectors"

"Future cyber operations will almost certainly include an increased emphasis on changing or manipulating data to compromise its integrity (i.e., accuracy and reliability) to affect decisionmaking, reduce trust in systems, or cause adverse physical effects."

"Efforts to mislead or compromise automated systems might create or enable further opportunities to disrupt or damage critical infrastructure or national security networks."

CYBER ATTACK TRENDS (what is coming "in" the future ?)

intervention

industry and infrastructure

indirect

integrity of information

ATTRIBUTION & RESPONSE (the 3 "C"s)

certainty

capability

credibility

IMPROVING RESILIENCE

focus on enterprise value

assume compromised environment

avoid single "points" of failure

address low-probability-high-impact scenarios

UNDERSTANDING CONSEQUENCES

technical standards / network architectures

supply chains and outsourcing

cascading effects

norms, precedents, and incentives

DISTRIBUTING RISK

through aggregation by service providers

across geographic locations / jurisdictions

between public and private sectors

via legal and regulatory liability

FROM THE 2014 CORPORATE STATEMENT BY CODE SPACES

"In summary, most of our data, backups, machine configurations and offsite backups were either partially or completely deleted."

"Code Spaces will not be able to operate beyond this point,
the cost of resolving this issue to date and the expected cost
of refunding customers who have been left without the
service they paid for will put Code Spaces in an irreversible position both
financially and in terms of ongoing credibility,"

"As such at this point in time we have no alternative but to cease trading and concentrate on supporting our affected customers in exporting any remaining data they have left with us."

CYBER INSURANCE -- "KNOWNS"

remediation expenses / increased costs

business interruption / lost revenues

legal liability (contract / tort)

regulatory actions (civil / criminal)

CYBER INSURANCE -- "UNKNOWNS"

theft / extortion

industrial espionage

brand reputation

existential risk

QUANTIFYING LOSSES

latency of discovery and effect

evolving disclosure requirements

problem of isolating impact

difficulty of measuring damages

COMPILING ACTUARIAL DATA

regulatory agencies / law enforcement accountants / auditors / legal counsel

IT security firms / service providers

risk rating companies

CHALLENGE PROBLEMS

basic education and training

corporate policies and best practices

what does diversification look like

how to evaluate maximum probable loss





Managing Cyber Risk in Your Organization: A Cal State Case Study





Managing Cyber Risk in Your Organization

- Leslie DeCato, Application Security Manager, California State University
- Chris Fowler, General Counsel, California State University
- Zachary Gifford, Director of System-wide Risk Management,
 California State University
- William Perry, Chief Information Security Officer, California State University





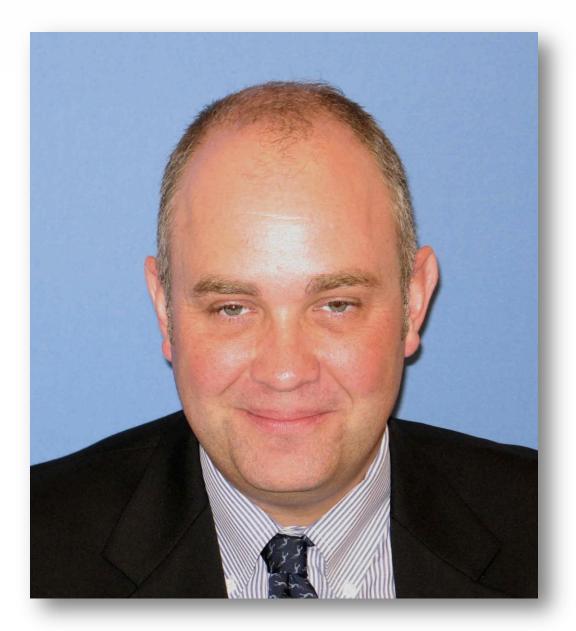
Managing Cyber Risk in Your Organization



Leslie DeCato CSU



Chris Fowler CSU



Zachary Gifford CSU



William Perry CSU







Morning Break

Coming up next...

Art versus Science



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Lisa Phillips
National Practice Advisor
Wells Fargo Insurance Services
Moderator





- Lisa Phillips, National Practice Advisor, Wells Fargo Insurance Services (Moderator)
- Christine Eveland, Technology, Media & Business Services, Beazley Insurance Services
- Ozzie Fonseca, Senior Director, Data Breach Resolution, Experian
- Austin Murphy, Director, Incident Response Services, CrowdStrike







Lisa Phillips Wells Fargo



Christine Eveland Beazley



Ozzie Fonseca Experian



Austin Murphy CrowdStrike







The Cloud





The Cloud



David Bradford

Co-Founder &
Chief Strategy Officer
Advisen
Moderator





The Cloud

- David Bradford, Co-Founder & Chief Strategy Officer, Advisen (Moderator)
- Robin Mestre, Principal Strategic Advisor, Google Cloud Platform
- Mark Weatherford, SVP, Chief Cybersecurity Strategist, vArmour

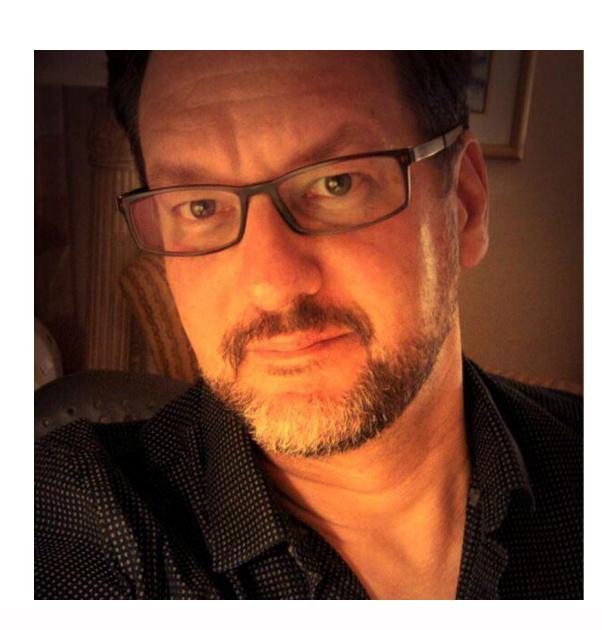




Business Interruption



David Bradford Advisen



Robin Mestre Google Cloud Platform



Mark Weatherford vArmour













Garrett Koehn
President Northwestern US,
Regional Director
CRC Insurance Group
Moderator

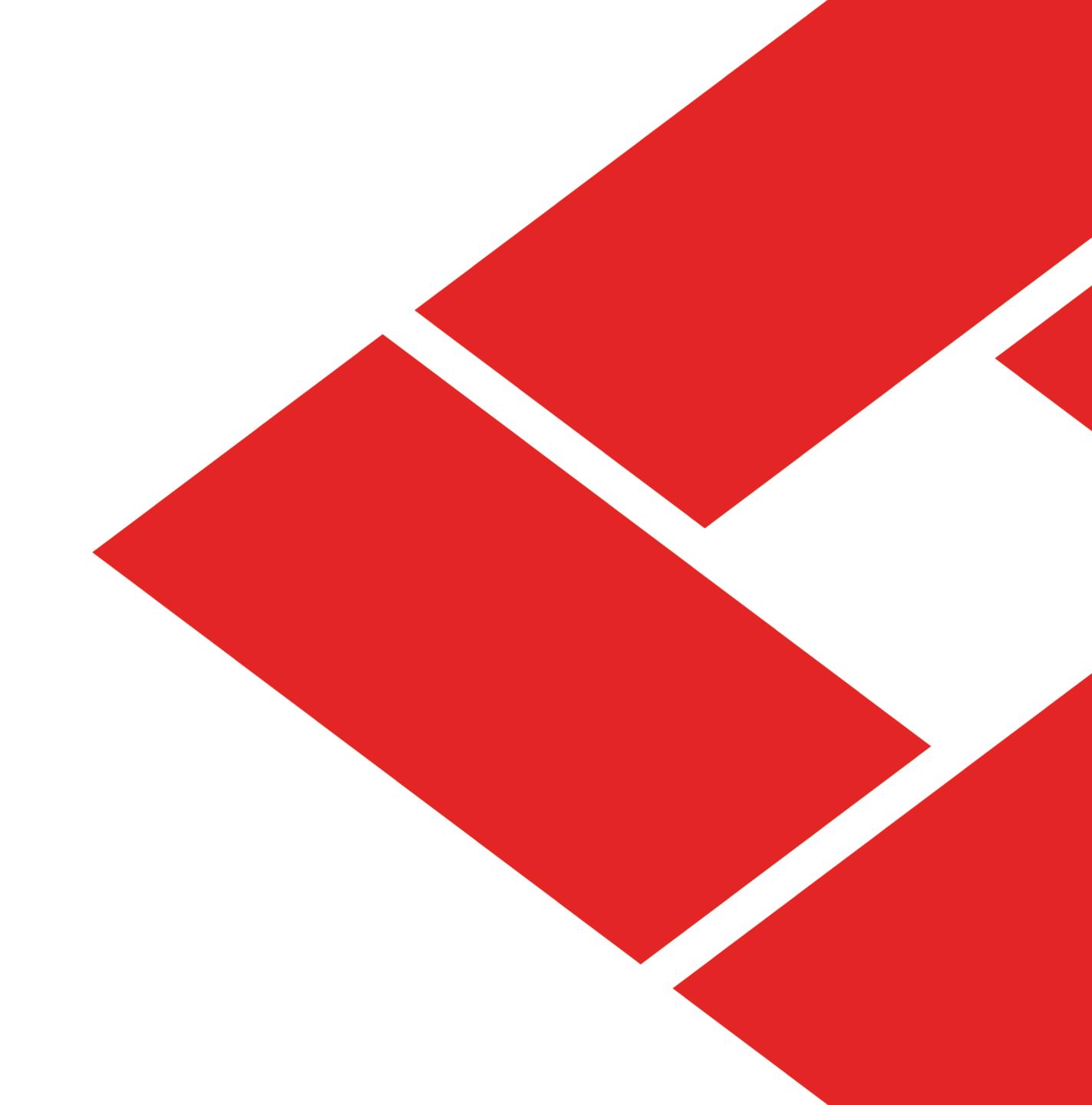




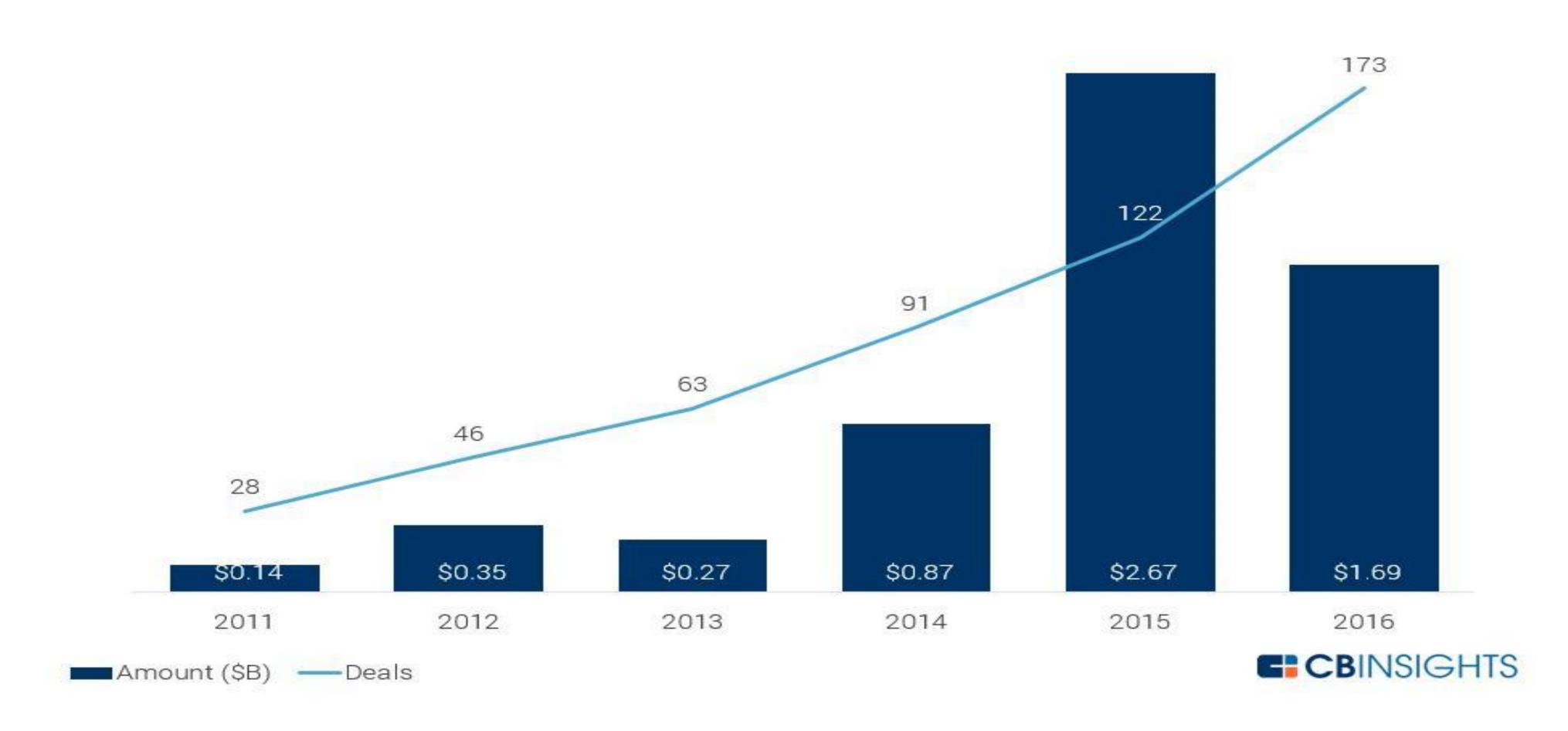
- Garrett Koehn, President Northwestern US, Regional Director, CRC Insurance Group (Moderator)
- Yida Gao, Investor, New Enterprise Associates (NEA)
- Sidd Gavirneni, Co-Founder, Zeguro
- Philip Rosace, Solutions Manager, Cyence
- Jay Sarzen, Senior Analyst (Consulting & Research Lead),
 P&C Insurance Segment, Aite Group

Cyber Insurance Startup

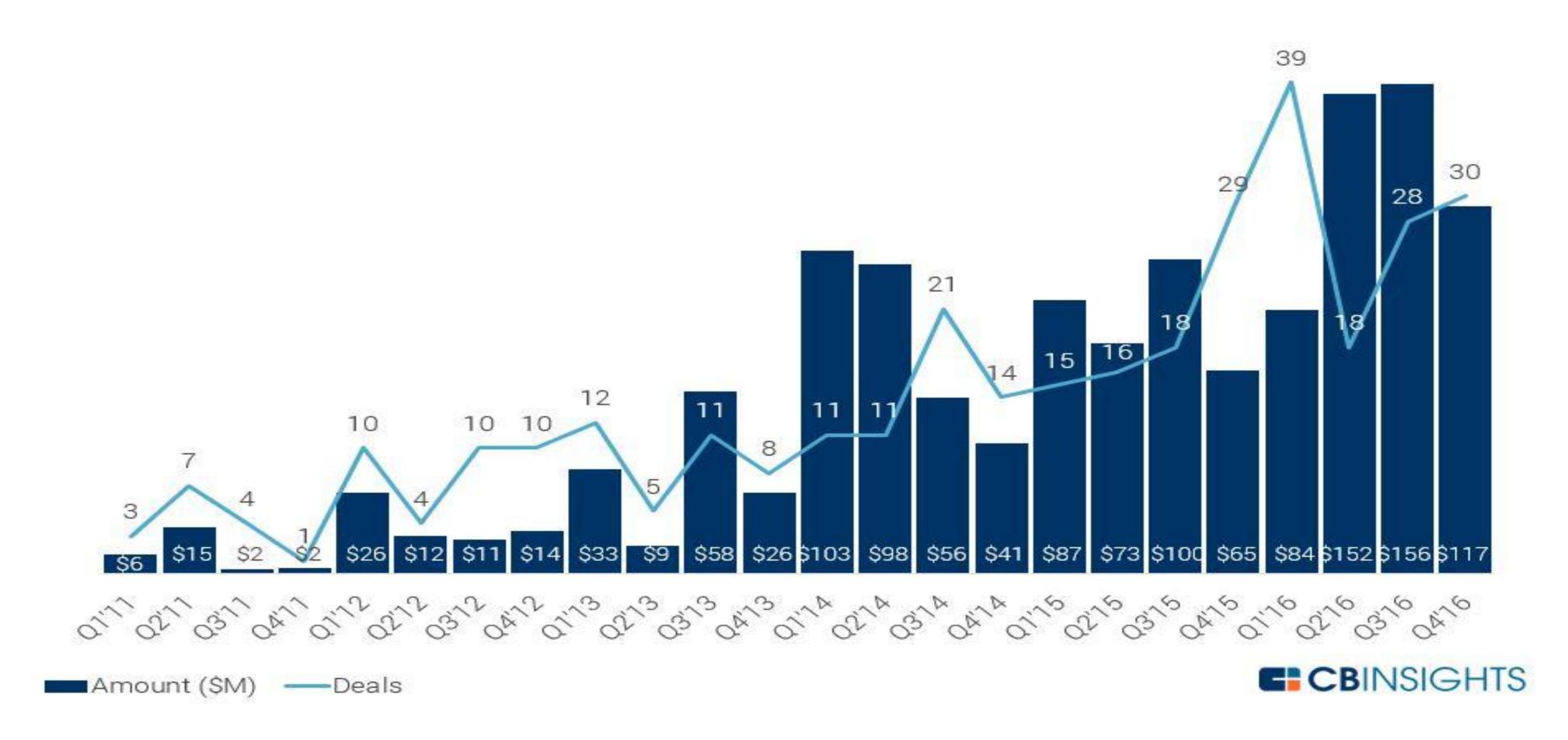




INSURANCE TECH ANNUAL FINANCING TREND





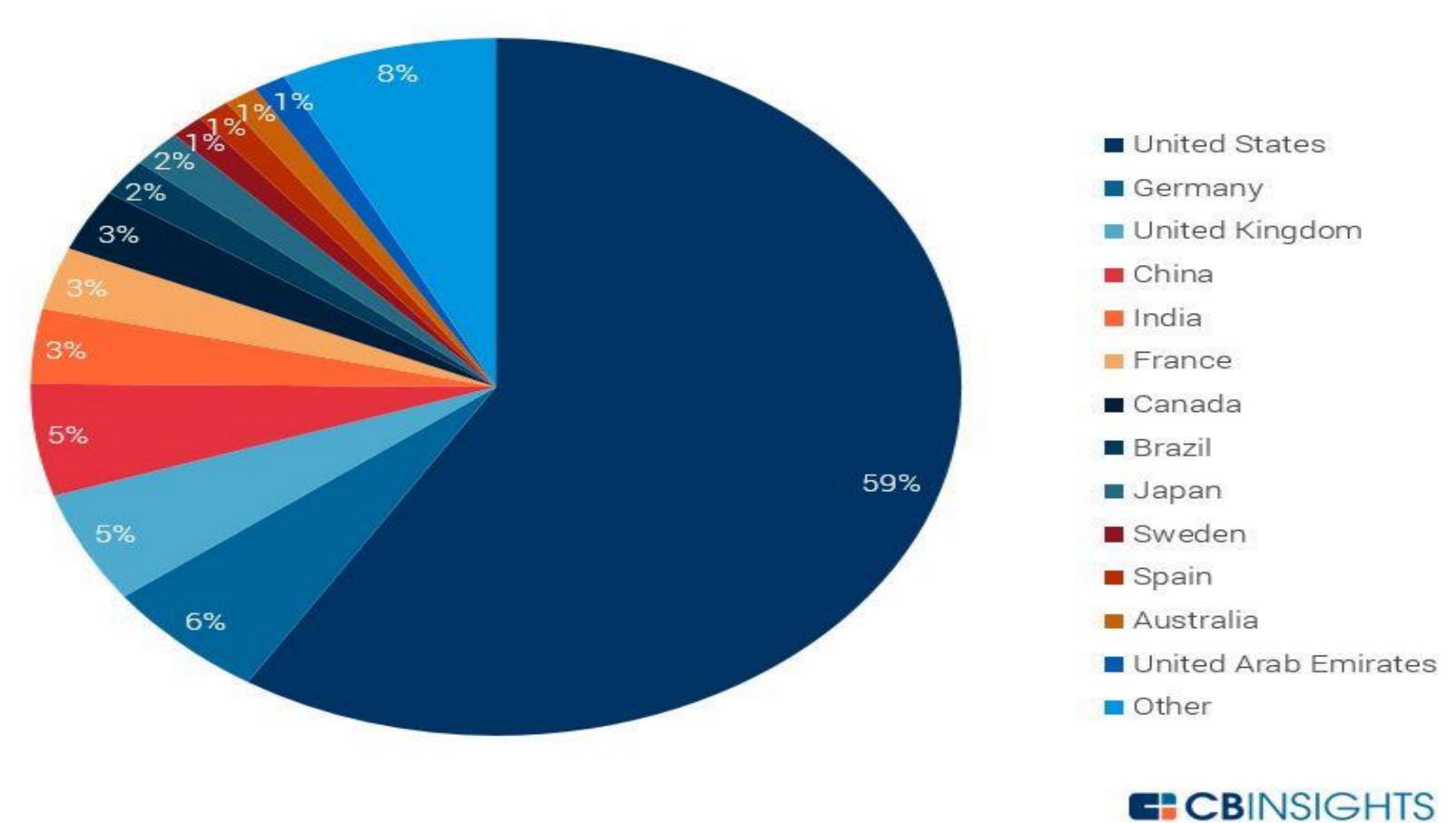


Top VC investors are making bets into insurtech

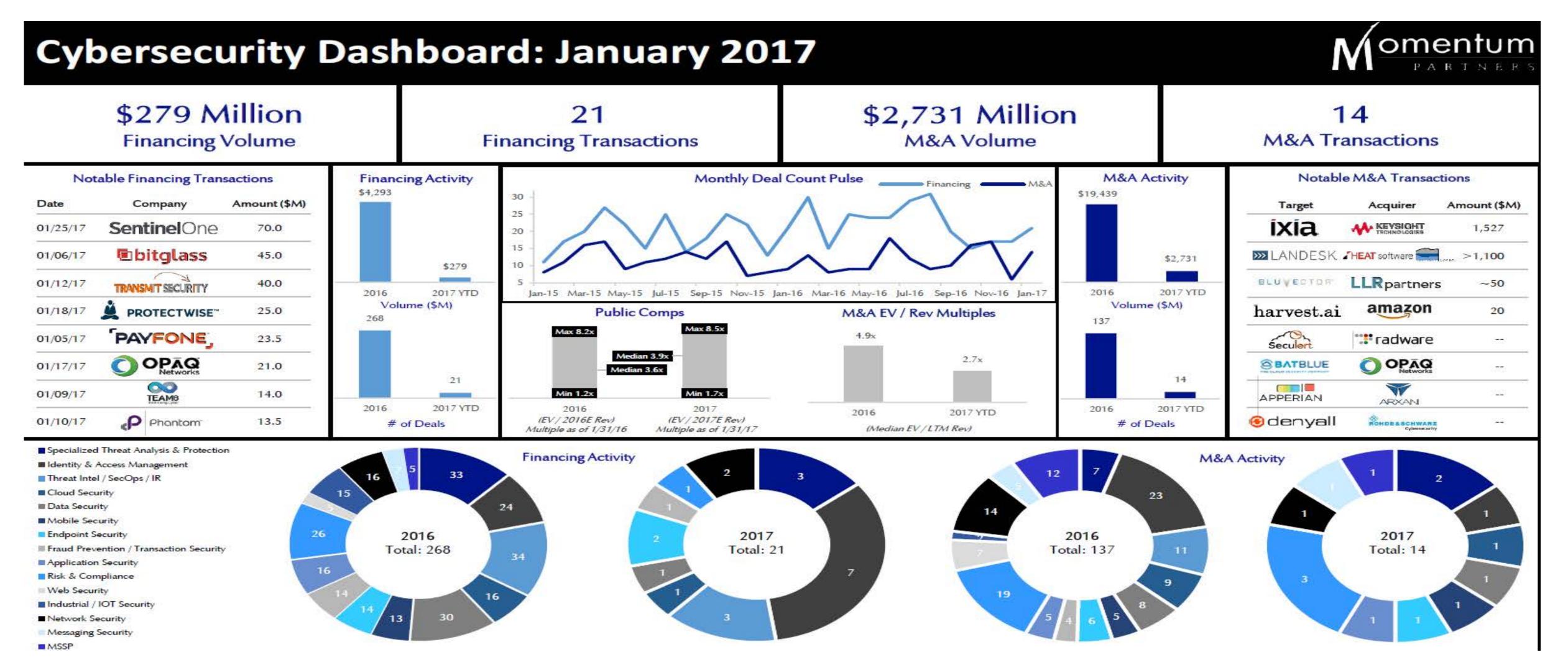








Startups and VCs are attacking Cyber

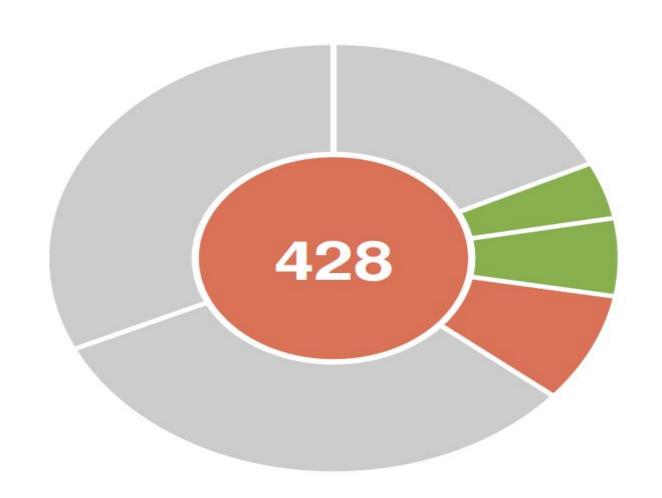


Severity and Susceptibility



For www.advisenltd.com, the overall cyber risk profile is Poor. The business risk profile is Excellent, the website security is Poor, and email integrity is Good. However, only 10% of the cyber risk surface is exposed externally. To answer the questions raised during the external audit requires an internal assessment of the system's configuration state.

Total Risk Profile



Executive Summary

See online report for full results

Business: 950

Checks: legal environment, geographic risk, industry risk and more

Communications: 866

Checks: SPF record, DKIM, DMARC and more

Website: 426

Checks: SSL enabled, domain expiry, X-powered by header and more

Security Requires Internal Scan

Checking servers for known vulnerabilities requires internal scan

Compliance Requires Internal Scan

Running compliance checks relevant to industry requires internal scan

Severity and Susceptibility

Record Type



Cyber Limits Assessment Report

Prepared For: ACME Inc. Total Revenue: \$40,000,000 Assumed No. of Records Lost: 3,000 PFI



Based on selected assumptions, the following total limits are recommended. Confidence levels shown indicate the percentage certainty proposed limits will cover the cost of a possible data breach.

TOTAL LIMITS	CONFIDENCE
\$1,000,000	63.74%
\$4,000,000	82.90%
\$9,000,000	90.33%
\$20,000,000	95.01%



The following limits illustrate severity within the dataset when losses of each type occur exclusively.

FIRST PARTY LIMITS	CONFIDENCE
\$1,000,000	75.93%
\$2,000,000	90.68%
\$4,000,000	95.37%
\$9,000,000	97.92%

THIRD PARTY LIMITS	CONFIDENCE
\$1,000,000	92.69%
\$1,000,000	92.69%
\$1,000,000	92.69%
\$2,000,000	95.76%

Are we doing it correctly? Disruption?

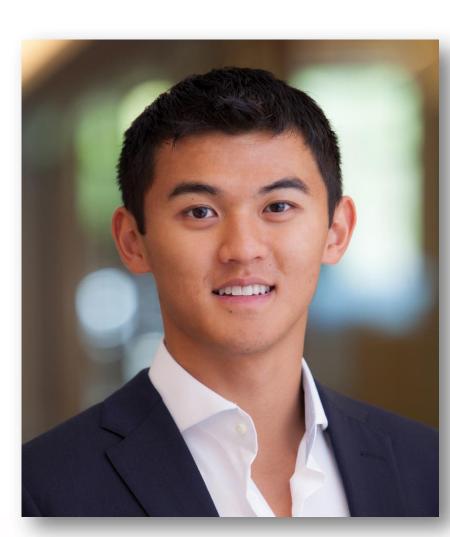
- Distribution?
- Underwriters look at the risks one way
- Technical people might look at it another way, BUT
- •Isn't everyone making money?







Garrett Koehn CRC Insurance Group



Yida Gao New Enterprise Associates



Sidd Gavirneni Zeguro



Philip Rosace
Cyence



Jay Sarzen Aite Group





Conference Luncheon

Coming up next...

SME Focus

Join Advisen experts for an optional workshop on "Actionable Intelligence" near the registration table.













Bill Cosgrove

Managing Principal & Practice Leader, Financial & Executive Risks EPIC Moderator





- Bill Cosgrove, Managing Principal & Practice Leader, Financial & Executive Risks, EPIC (Moderator)
- Winston Krone, Managing Director, Kivu Consulting
- Jordan Rankell, Assistant Vice President, West Coast Regional Underwriting Manager, NAS







Bill Cosgrove EPIC



Winston Krone Kivu Consulting



Jordan Rankell NAS





Growing the Cyber Insurance Market: The Government Roadmap





Growing the Cyber Insurance Market:



Davis Hake

Cybersecurity Strategist,
Center for Strategic and International
Studies
Moderator





Growing the Cyber Insurance Market:

- Davis Hake, Cybersecurity Strategist, Center for Strategic and International Studies (Moderator)
- Geoff Belknap, CSO, Slack
- Andy Steingruebl, Senior Director, PayPal
- Brian White, COO, RedOwl





Growing the Cyber Insurance Market:



Davis Hake
Center for Strategic and
International Studies



Geoff Belknap Slack



Andy Steingruebl PayPal



Brian White RedOwl





Afternoon Break

Coming up next...

Coverage and Conditions: A Moving Feast



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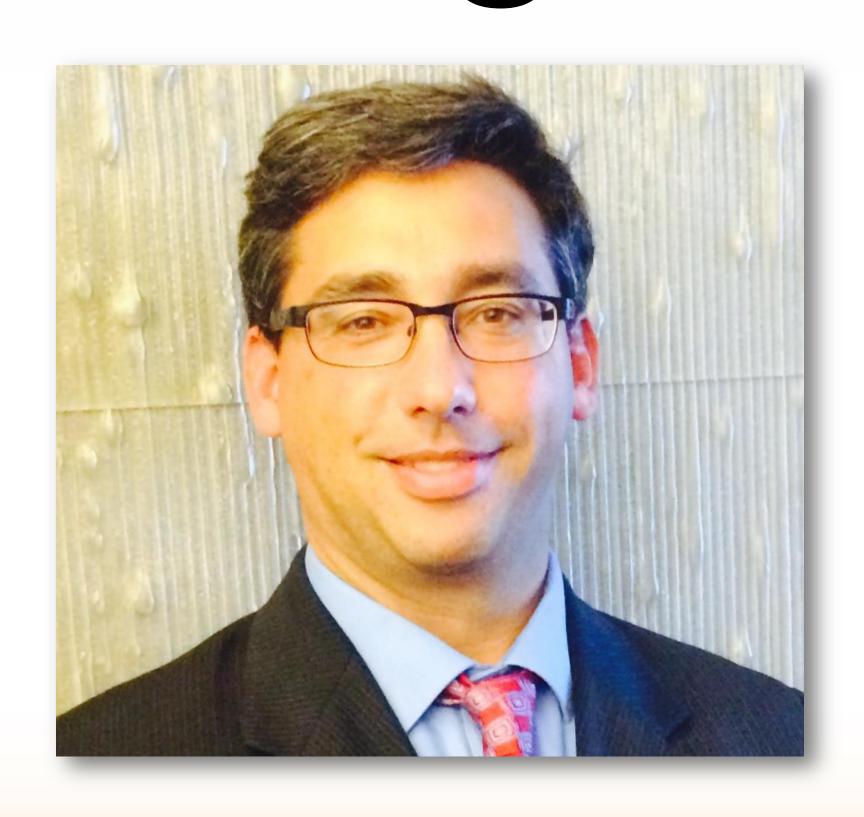


Coverage and Conditions: A Moving Feast





Coverage and Conditions



Tim Francis

Enterprise Cyber Lead Travelers Moderator





Coverage and Conditions

- **Tim Francis**, Enterprise Cyber Lead, Travelers (Moderator)
- Jason Glasgow, Vice President Cyber Lead, Allied World
- Florence Levy, Senior Vice President, Cyber / E&O Practice, JLT Specialty USA
- Bob Parisi, Managing Director, Marsh





Coverage and Conditions



Tim Francis
Travelers



Jason Glasgow Allied World



Florence Levy JLT Specialty



Bob Parisi Marsh







Reaching Capacity? Buying and Claims Trends





Buying and Claims Trends



Gregory Bautista

Partner
Wilson Elser
Moderator





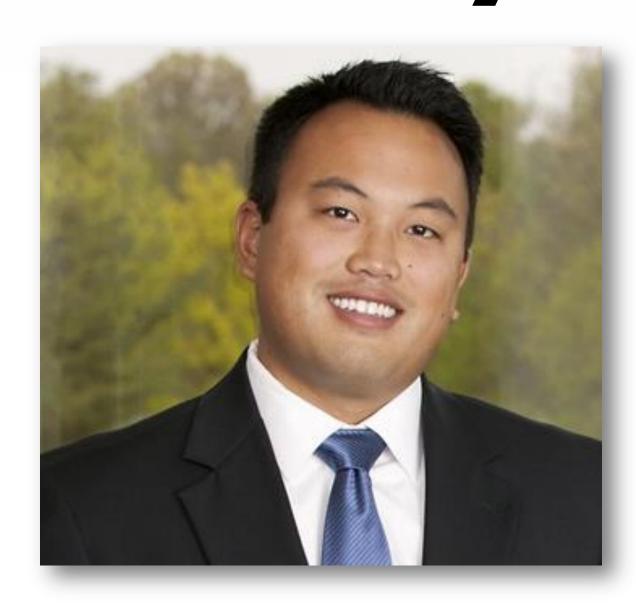
Buying and Claims Trends

- Gregory Bautista, Partner, Wilson Elser (Moderator)
- Lauri Floresca, Senior Vice President & Partner, Co-Chair, Cyber Liability Team, Woodruff Sawyer
- Aaron Laderman, Regional Underwriting Manager, Financial Lines, AIG
- Catherine C. Lyle, Claims Expert, Swiss Re Corporate Solutions





Buying and Claims Trends



Gregory Bautista
Wilson Elser



Lauri Floresca Woodruff Sawyer



Aaron Laderman AIG



Catherine C. Lyle Swiss Re Corporate Solutions







Closing Remarks & Reception





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