



Cyber Risk Trends: Q1 2017

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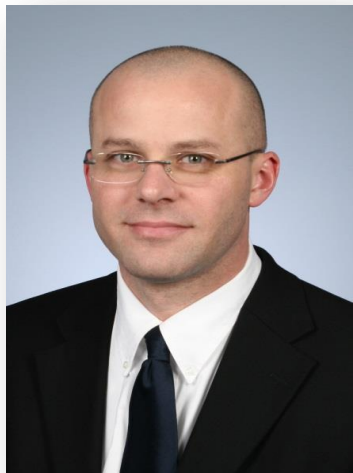
Today's Moderator



Erin Ayers

Editor – *Cyber Front Page News*
Advisen

Today's Panelists



Jay Jacobs
Senior Data Scientist,
BitSight

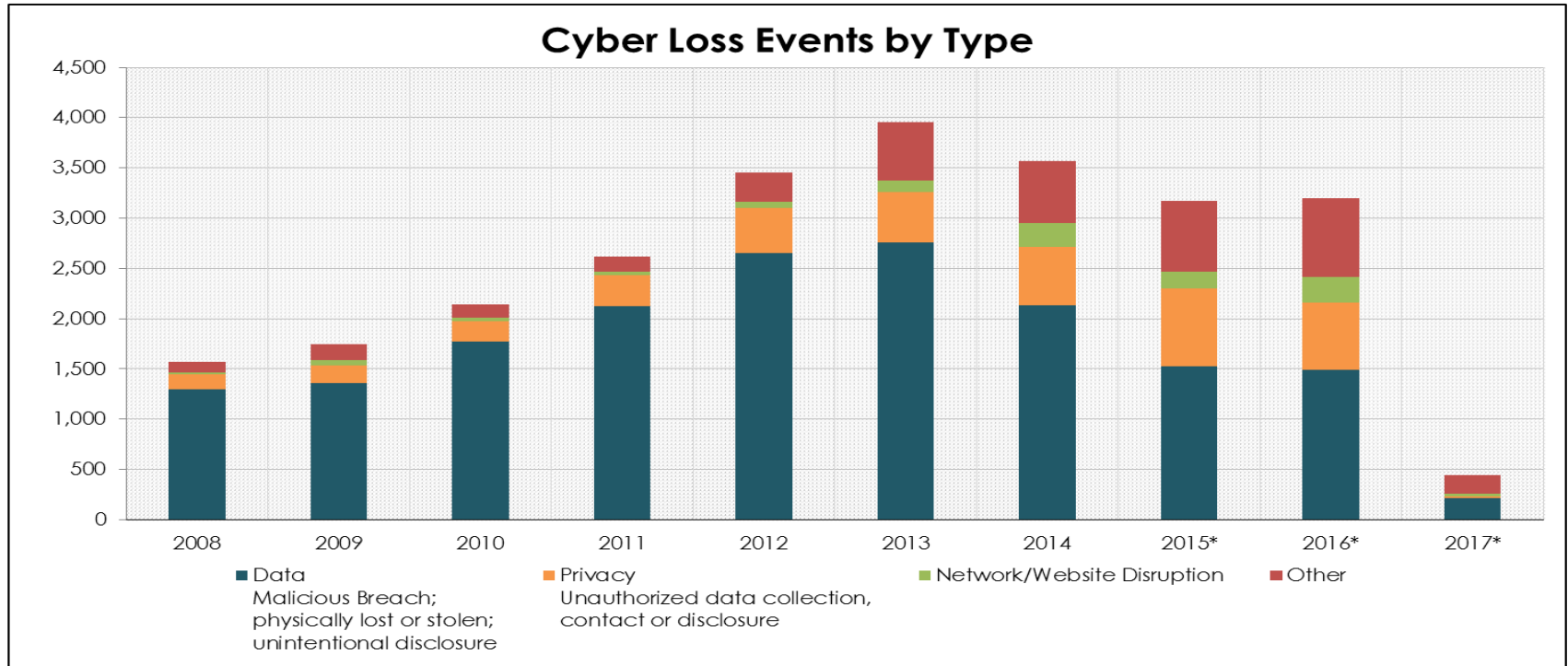


Jake Olcott
Vice President of Strategic
Partnerships,
BitSight

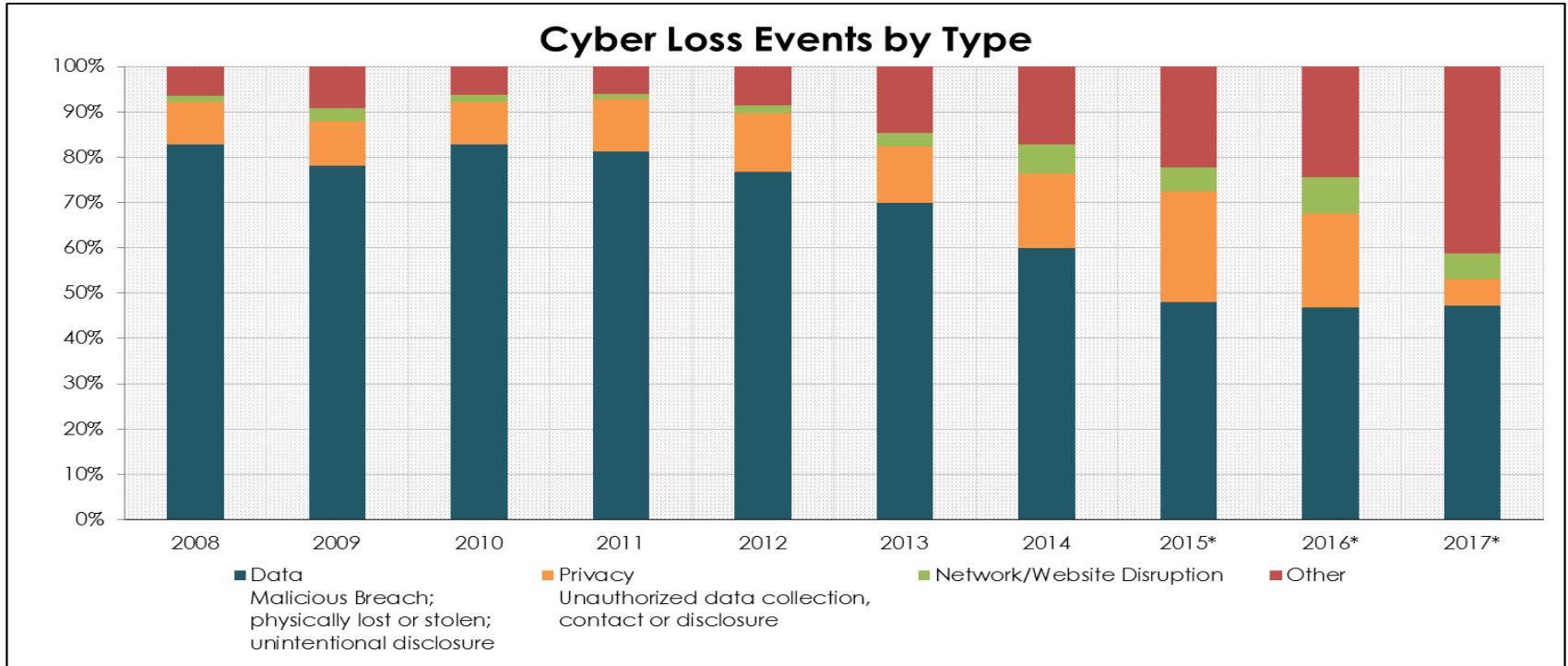


Aloysius Tan
Product Manager,
Information and Analytics,
Advisen

Rising Risks of Cyber Loss Events

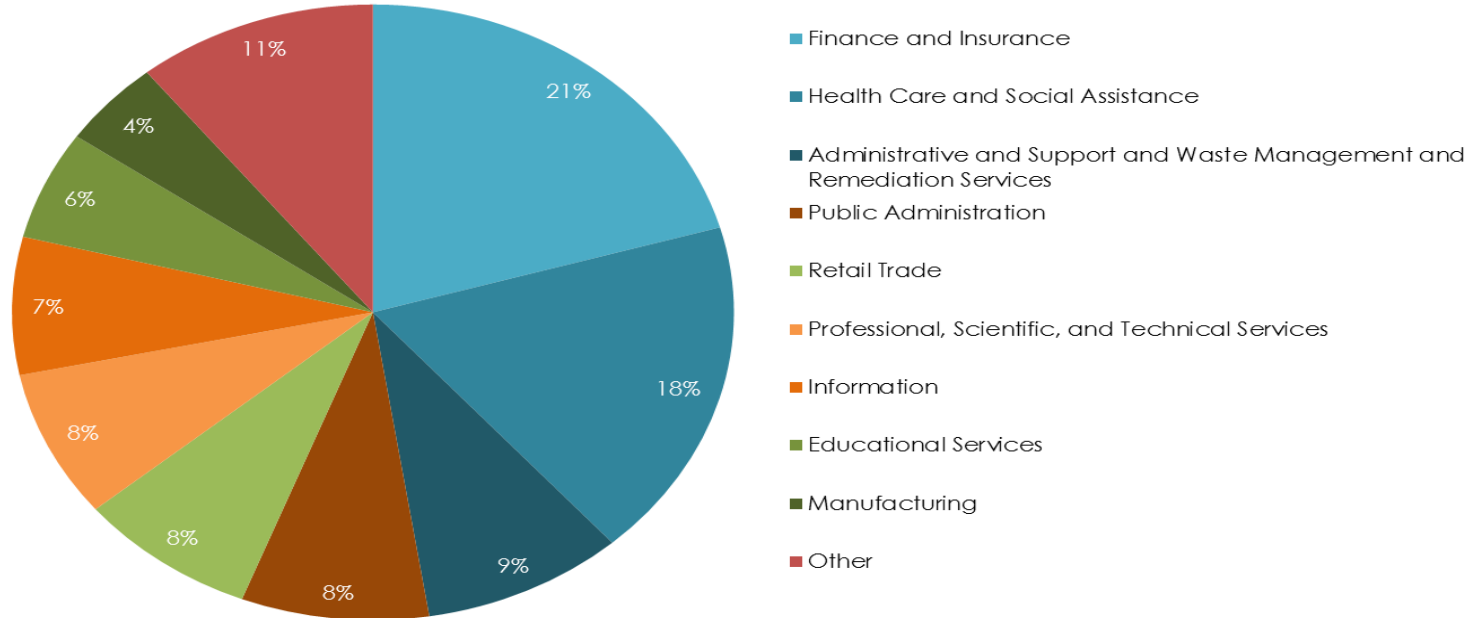


Rising Risks of Cyber Loss Events



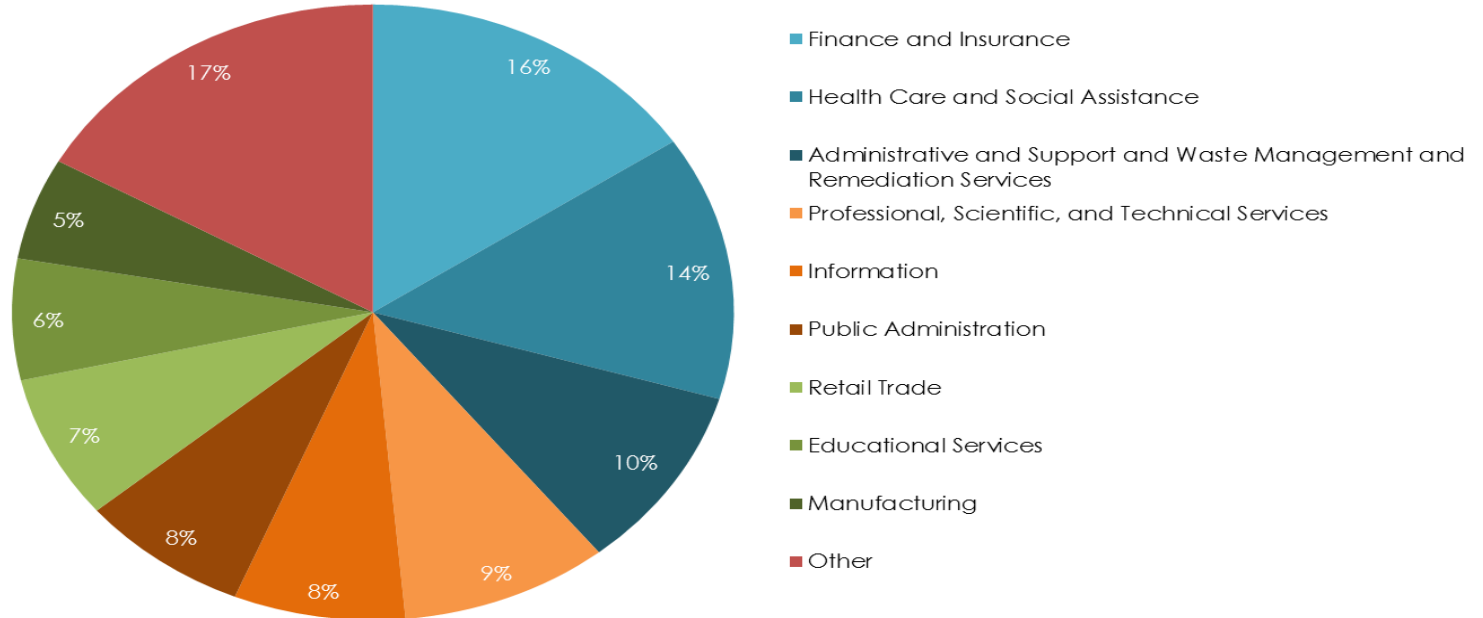
Industry Composition

Industry Composition: Trailing 5 years

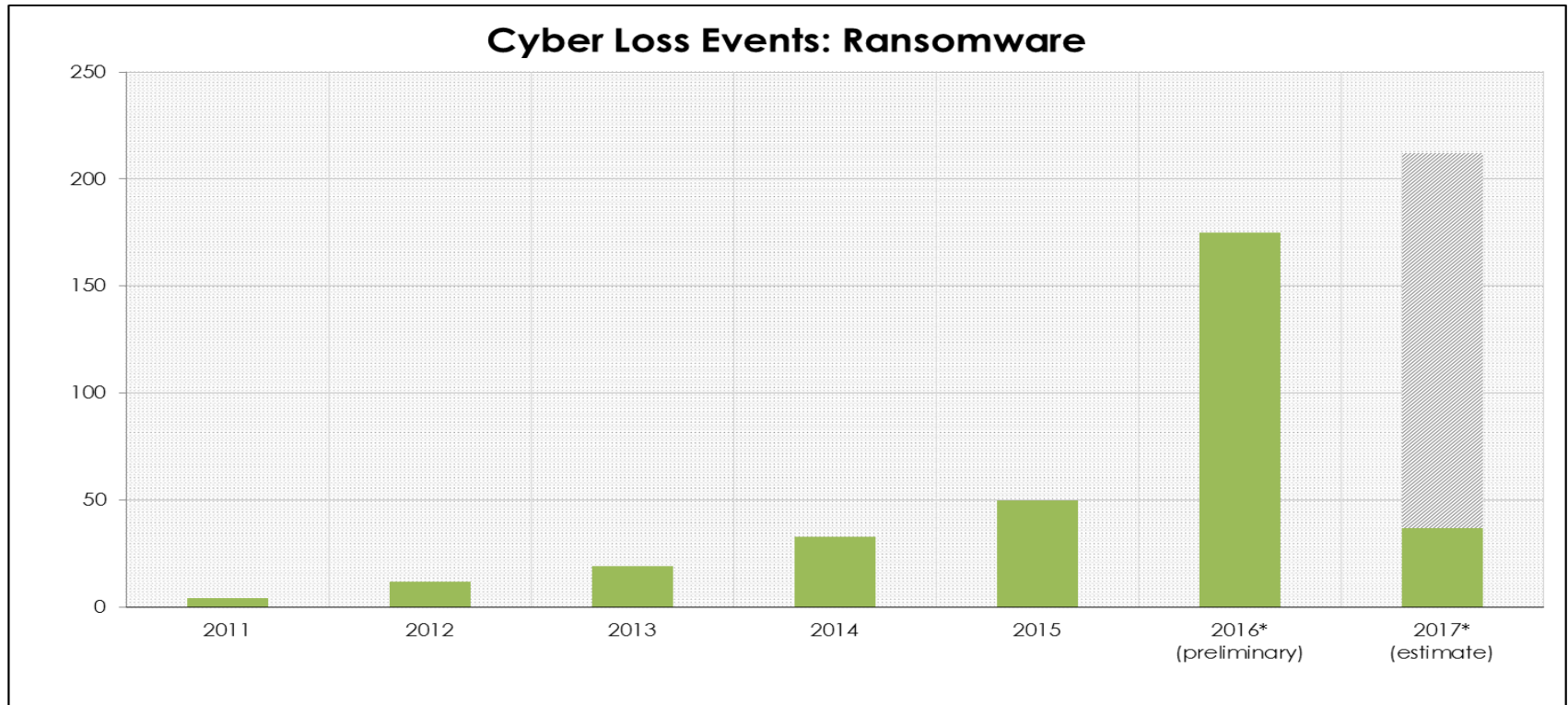


Industry Composition

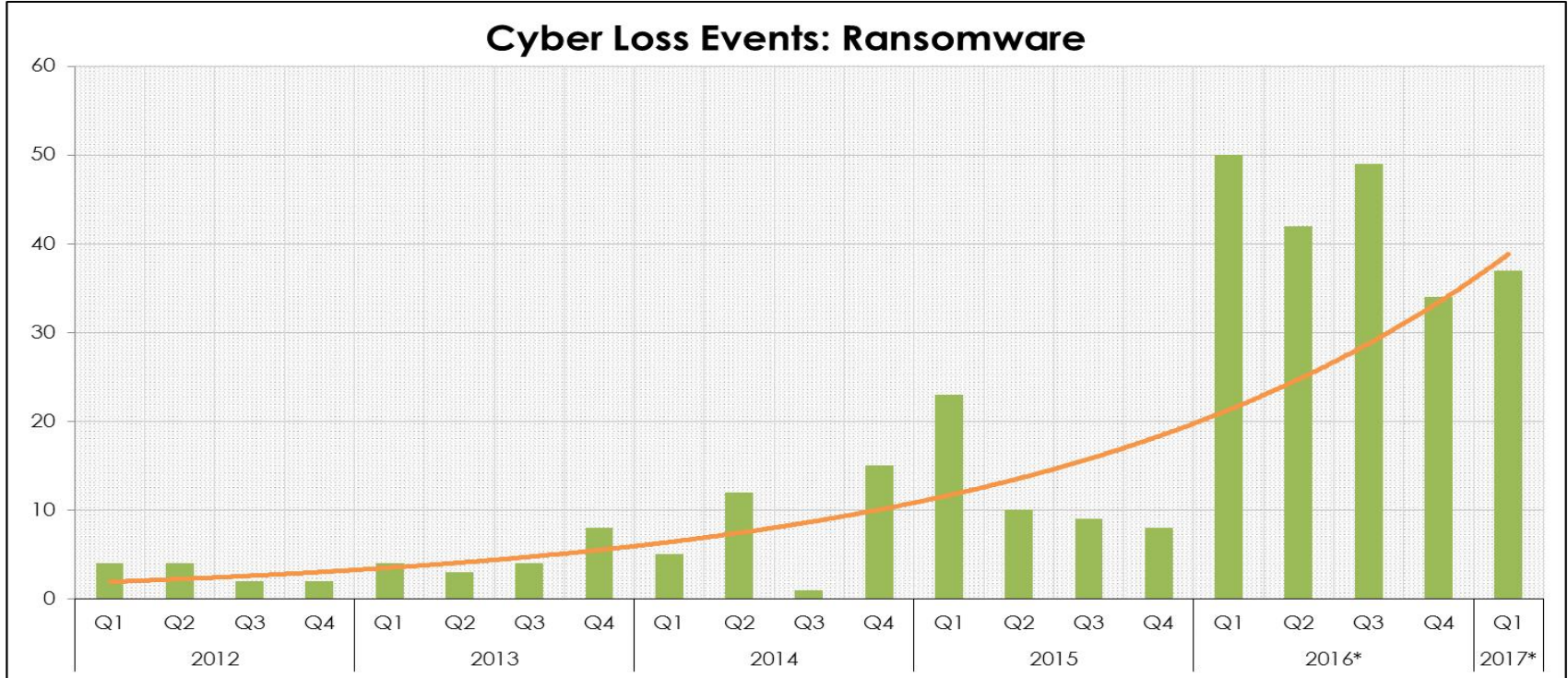
Industry Composition: Trailing 2 years



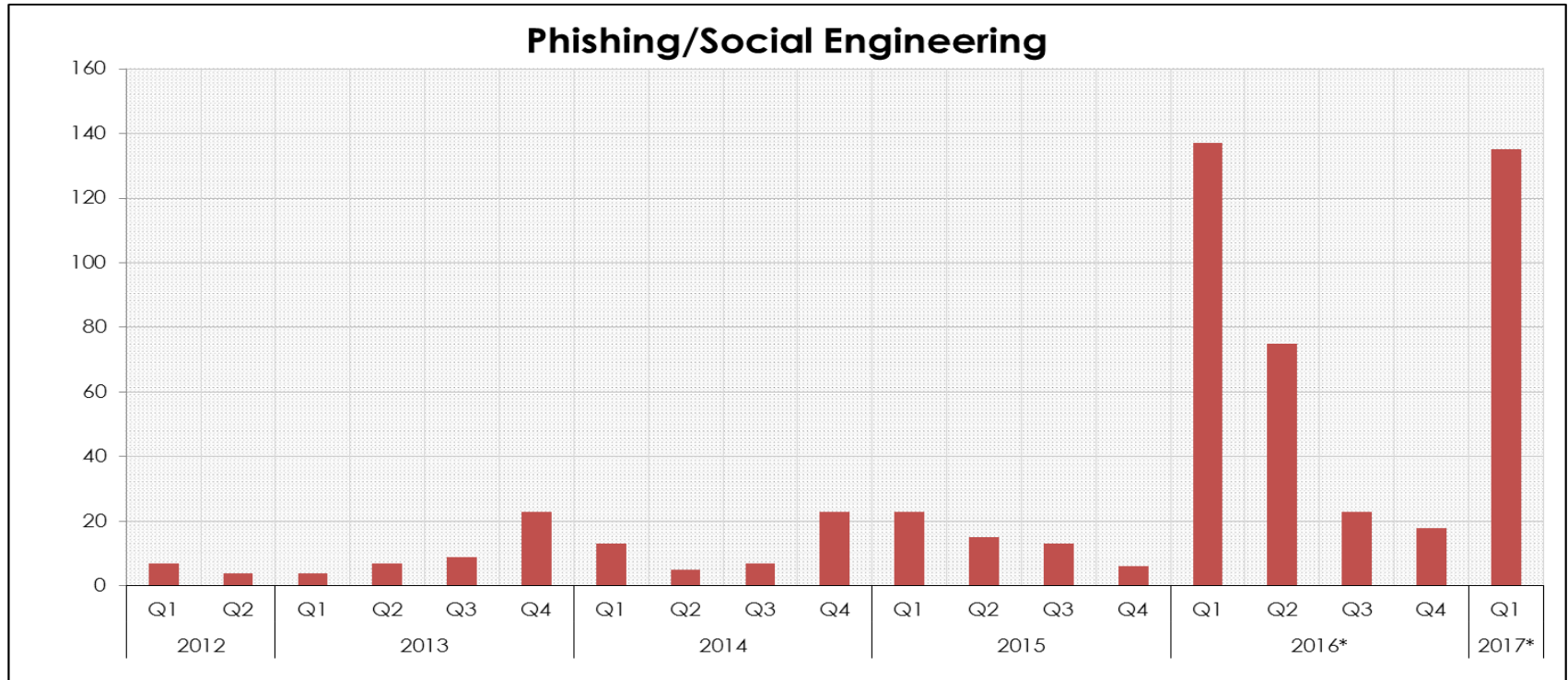
Ransomware/Cyber Extortion



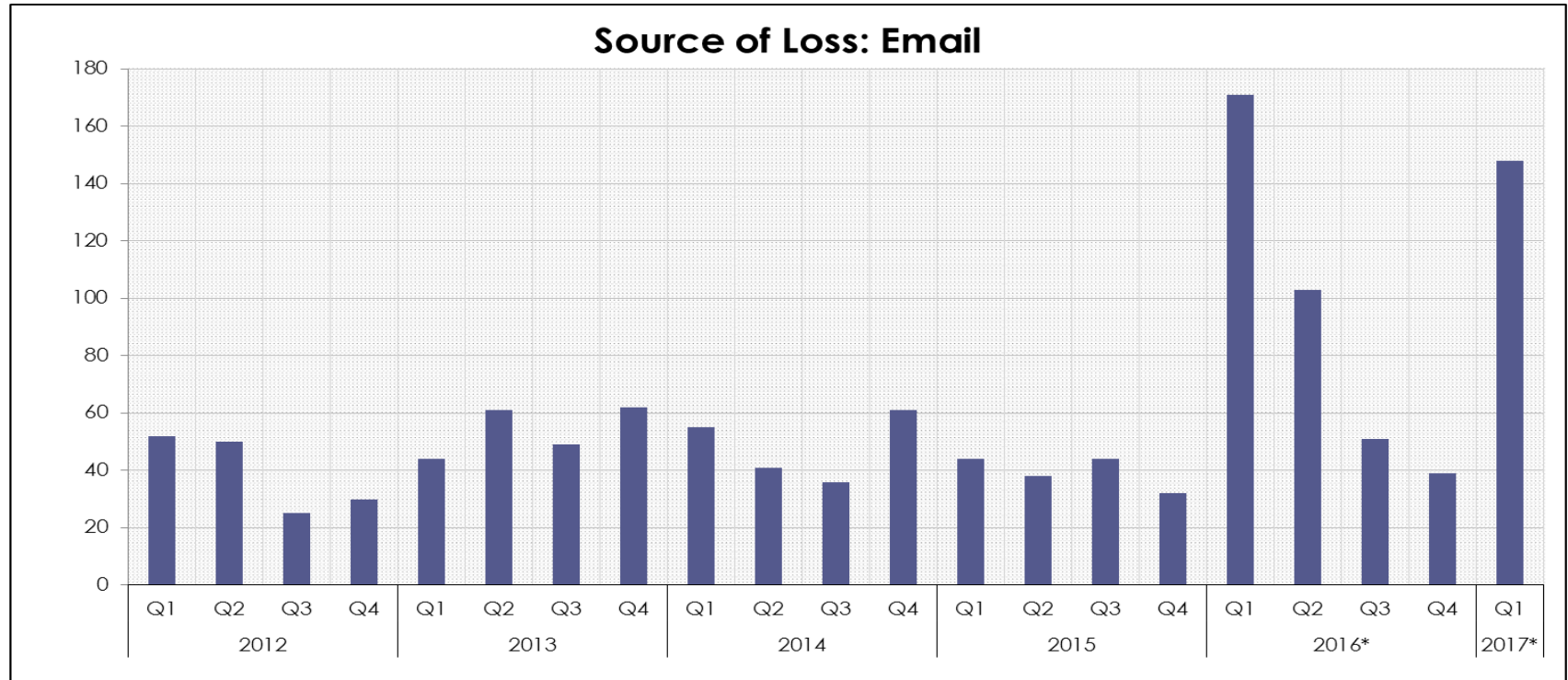
Ransomware/Cyber Extortion



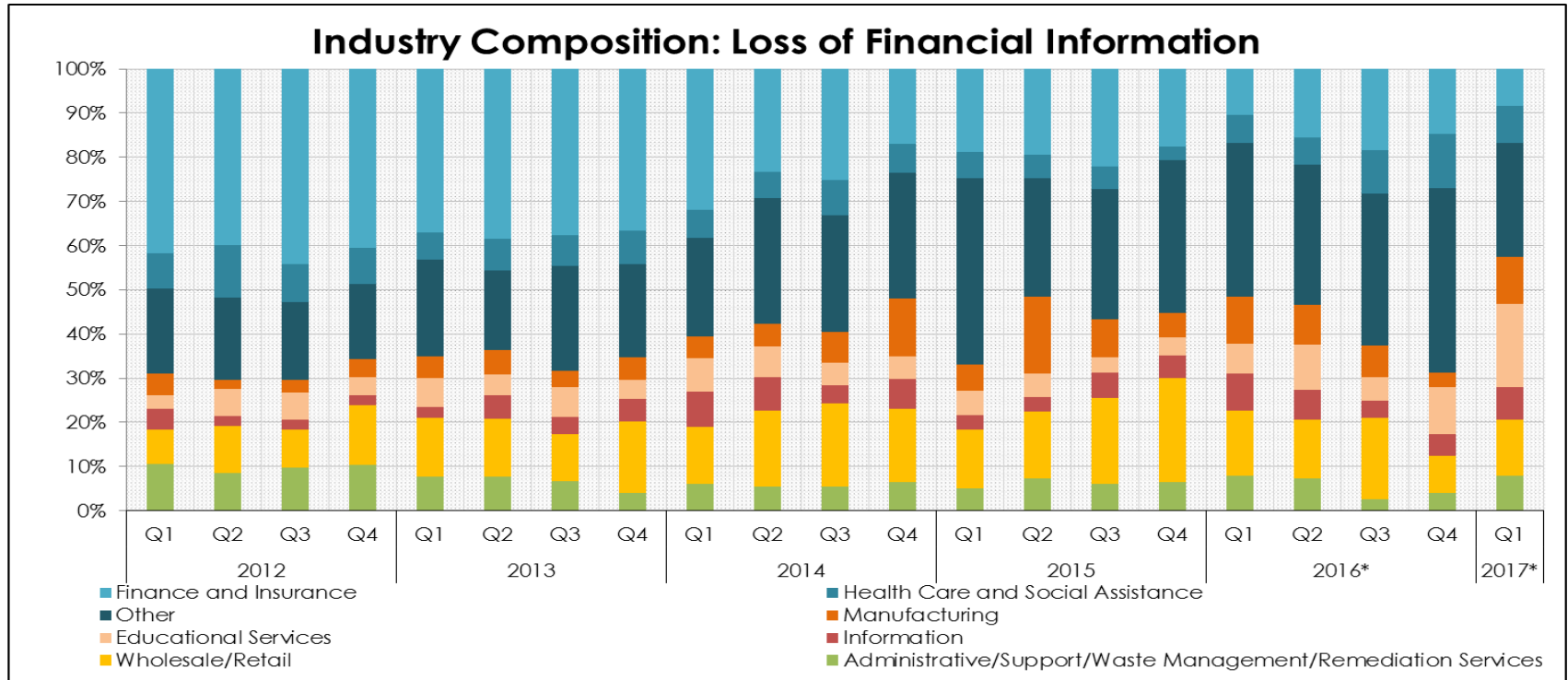
Social Engineering



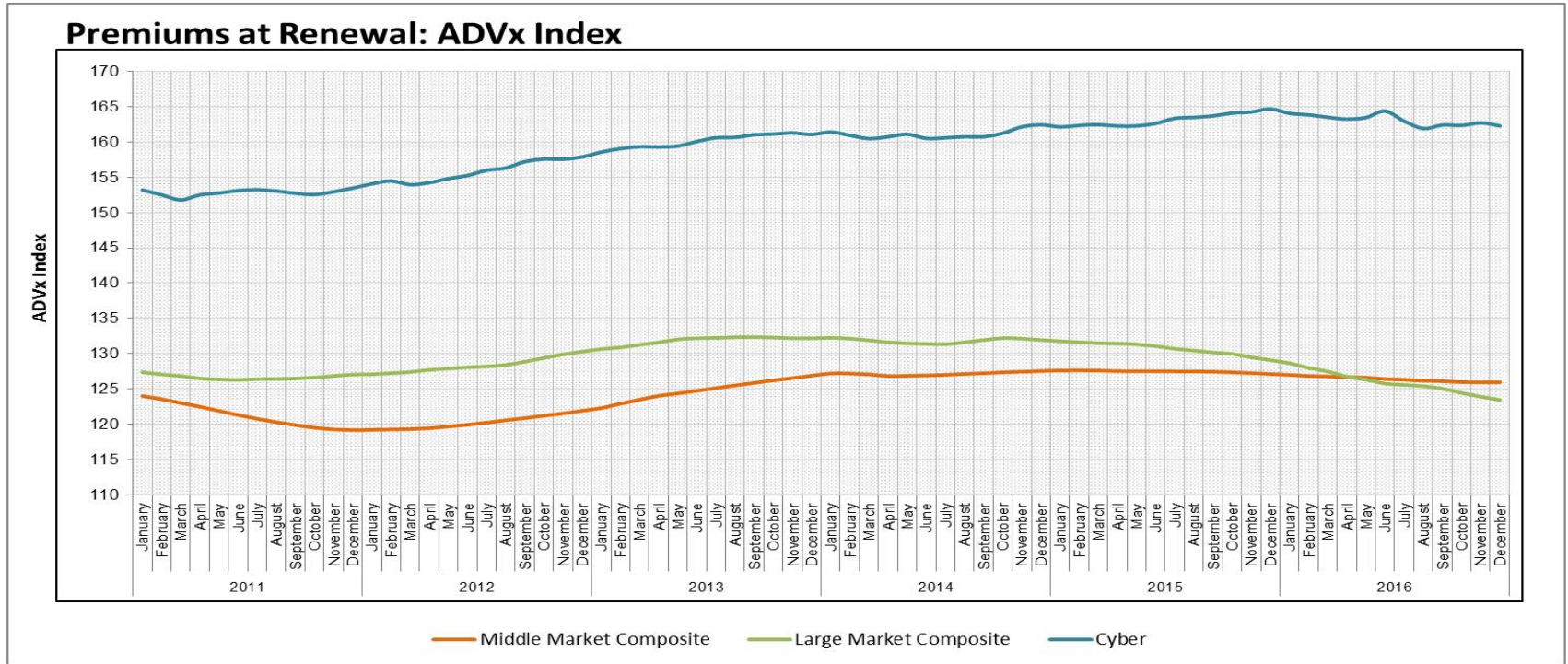
Email Compromise



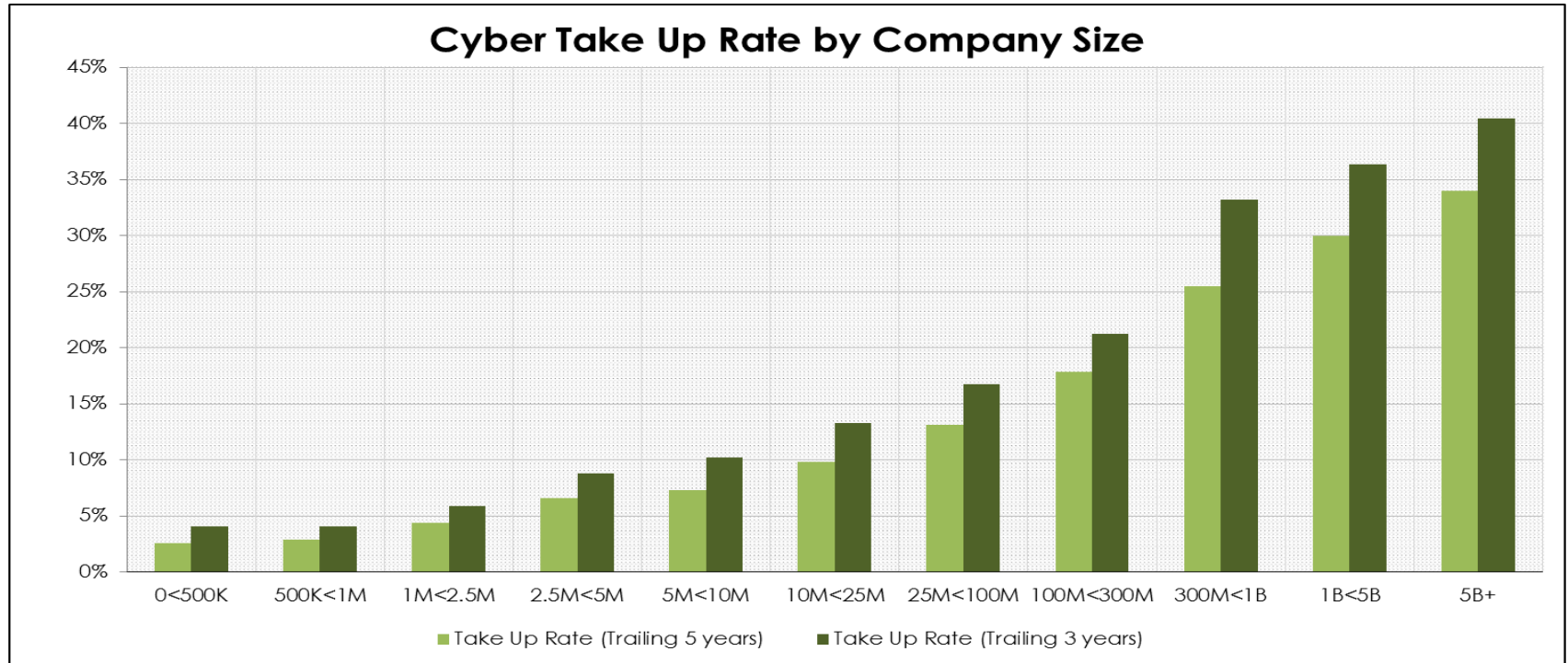
Loss of Financial Information



Cyber Premiums at Renewal



Cyber Take-Up Rates





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Quarterly Cyber Risk Trends

Jake Olcott, VP, Strategic Partnerships
Jay Jacobs, Senior Data Scientist

www.bitsighttech.com

Impact of cyber incidents in Q1 crosses categories:

- Consumer
- Business
- Regional
- International

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Consumer Risk



MongoDB Vulnerability

- MongoDB is open source database that was not configured securely by default
- Hackers accessed vulnerable MongoDB databases running with default credentials, leading to exploitation (CloudPets) and ransomware risk
- **BitSight research showed 5.9%** of a sample of companies in January had MongoDB exposed to the internet → **April: 4.4%**
- Recent BitSight/Advisen study: 60% of breached orgs had 10 or more open ports susceptible to unauthorized use

OPEN PORTS [clear](#) ▲

HTTPS - 443 (945)

HTTP - 80 (938)

SSH - 22 (748)

ISAKMP - 500 (680)

ISAKMP - 500 (658)

SMTP with STARTTLS - 25 (573)

HTTPS - 8443 (550)

HTTP - 8080 (527)

FTP without STARTTLS - 21 (519)

SMTP without STARTTLS - 25 (465)

MongoDB - 27017

[Show more](#)

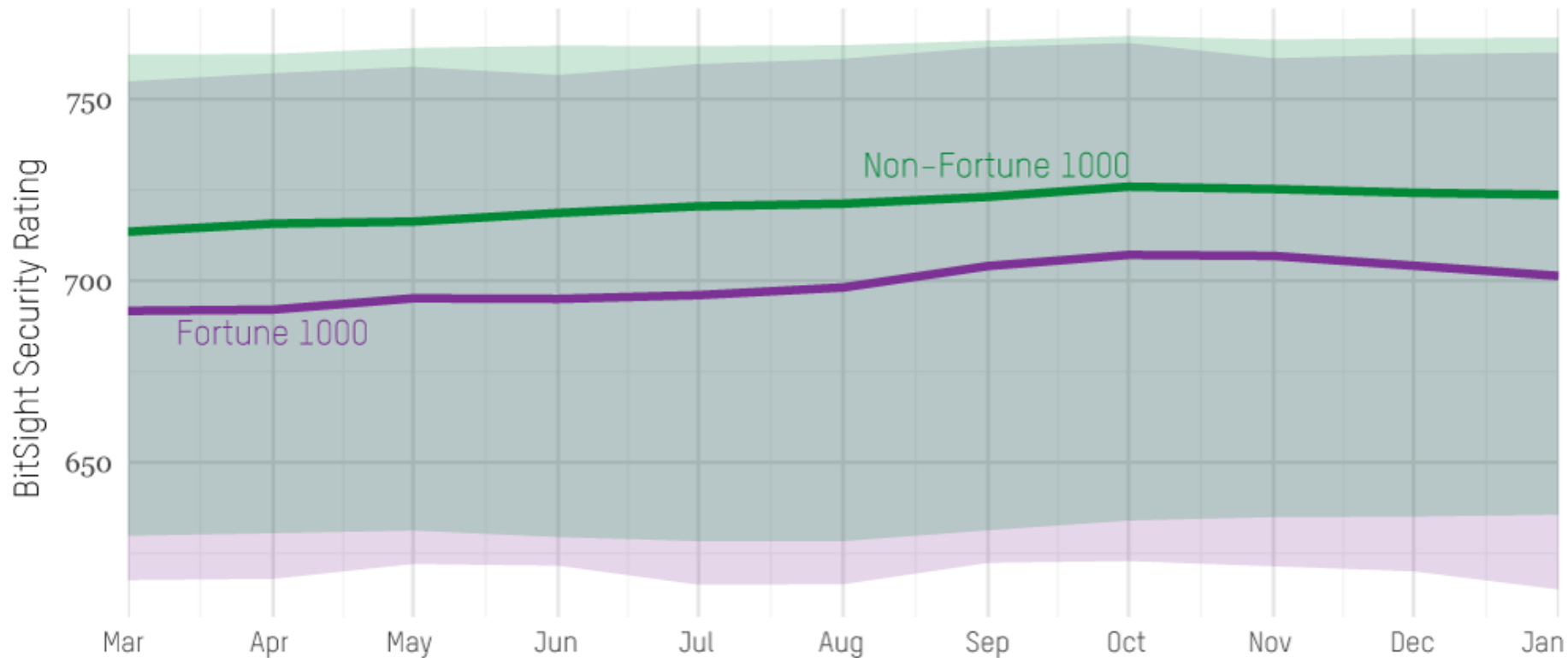
A background image showing a business meeting with people in a conference room. A large, stylized line graph is overlaid on the image, starting from the bottom left and trending upwards to the top right. The graph is composed of several segments: a red segment, an orange segment, a brown segment, and a dark blue segment. The word "BITSIGHT" is written in blue capital letters across the middle of the graph.

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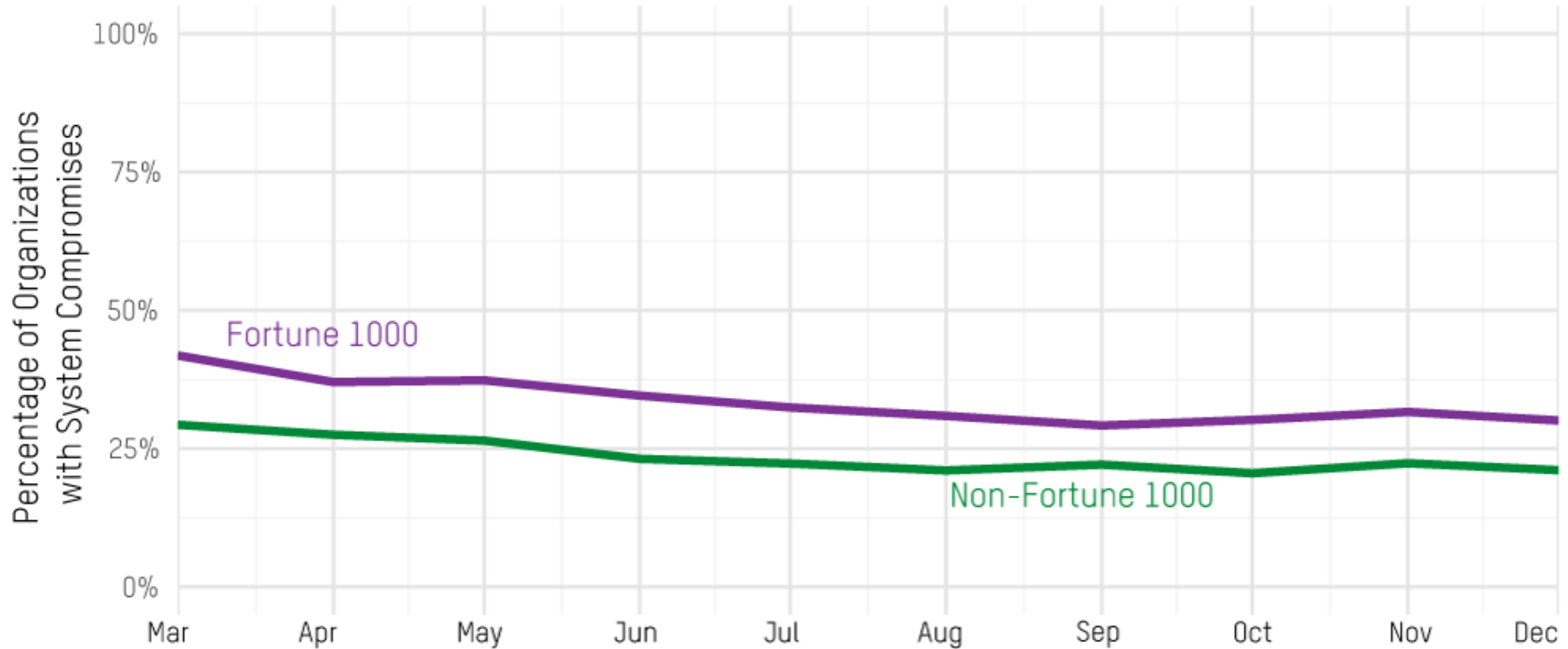
Business Risk

YAHOO!

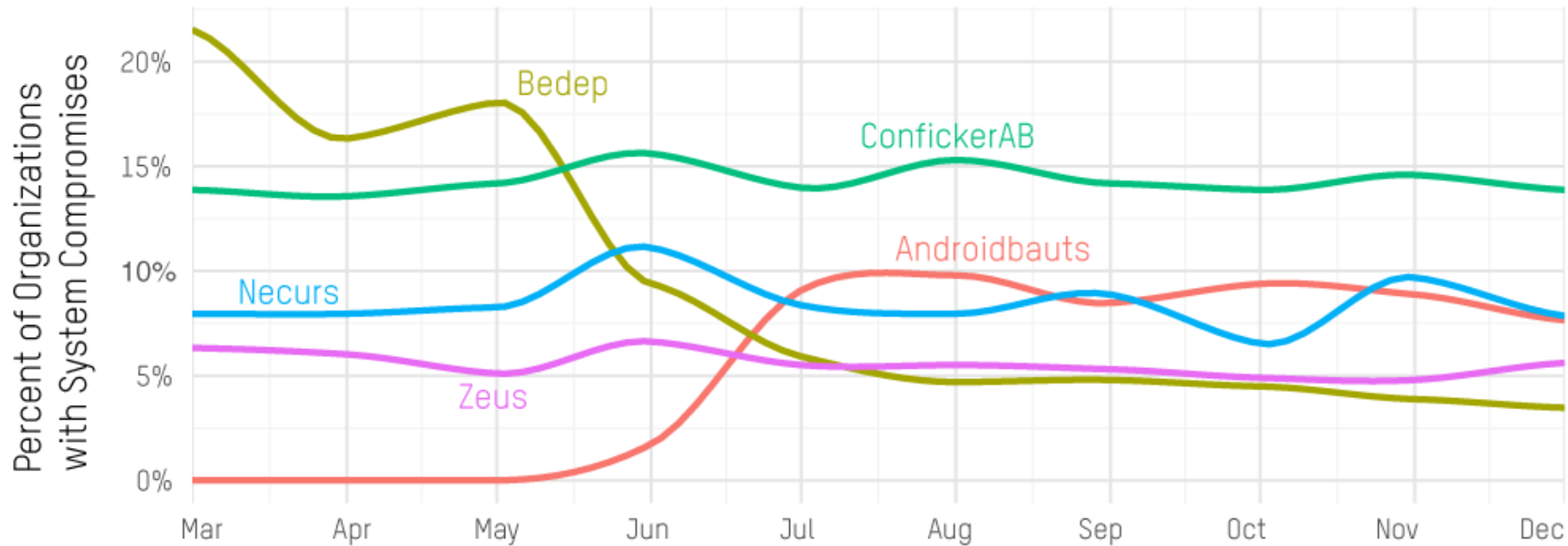
Fortune 1000 Performance



Rate of System Compromises



Common Machine Compromises



BitSight's View of Fortune 500, Last 3 Months



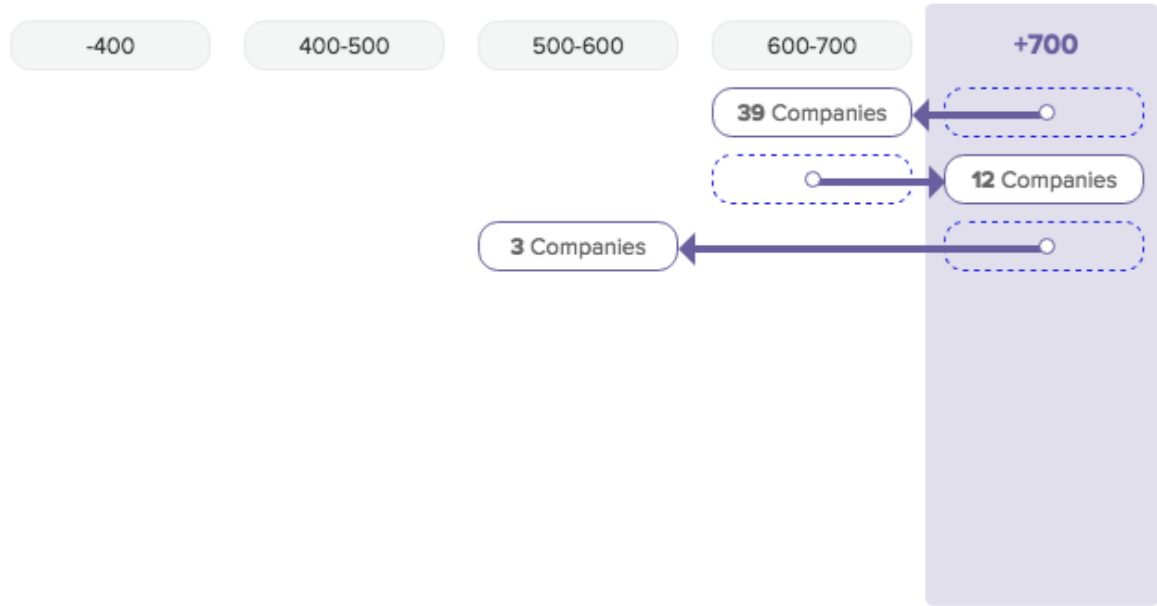
FORTUNE500 ▼ ALL INDUSTRIES ▼

Last 7 DAYS 30 DAYS 3 MONTHS

Category Changes

	In	Out	
+700	12	42	➤
600-700	47	47	➤
500-600	40	21	➤
400-500	14	12	➤
-400	9	-	➤

Changes in +700 [clear](#)



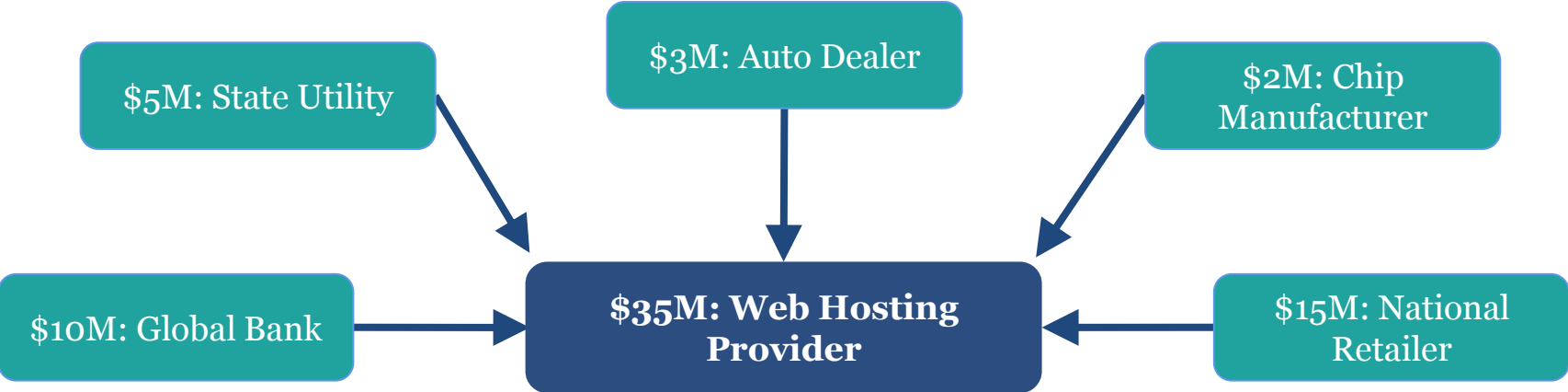


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Regional Risk



How Aggregation Risk Impacts Portfolio



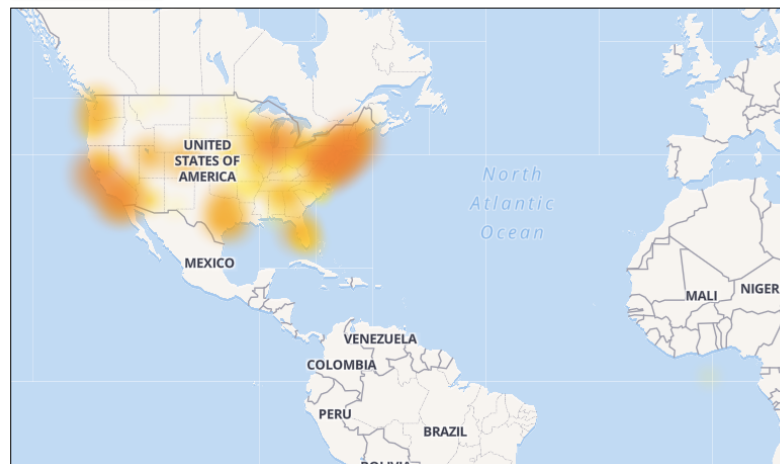
Recent Service Provider Incidents

- 10/21/16 - Dyn DNS Outage (DDOS Attack)
- 12/27/16 - MongoDB
- 2/27/17 - CloudFlare
- 2/28/17 - Amazon AWS (Northern Virginia, Command Entry Error)

Dyn outage map

Recent reports mostly originate from: San Francisco, Charlotte, Wilmington, Tampa, Atlanta, Burlington, Portland, Garrett, Morrisville, and Epping.

..|l Dyn outage chart



Dyn DNS Company is an internet performance management company, offering products to monitor, control and optimize online infrastructure and also domain registration services and email products.



Potential Aggregation, Fortune 500

65%

of F500 companies are running GoDaddy DNS

69%

of F500 companies are running Rackspace hosting

77%

of F500 companies are leveraging Akamai for content delivery

SERVICE PROVIDERS clear ▲	PRODUCTS clear ▲
<input type="checkbox"/> Google Corporation 494	<input type="checkbox"/> Google Analytics 120
<input type="checkbox"/> Microsoft Corporation 491	<input type="checkbox"/> Microsoft Office 120
<input type="checkbox"/> Adobe Systems 471	<input type="checkbox"/> Microsoft PowerPoint 119
<input type="checkbox"/> Oracle Corporation 471	<input type="checkbox"/> Adobe (N/A) 120
<input type="checkbox"/> International Business Machines Corp. 463	<input type="checkbox"/> Microsoft SharePoint 118
<input type="checkbox"/> SAP AG 450	<input type="checkbox"/> Google Universal Analytics 120
<input type="checkbox"/> Symantec Corporation 445	<input type="checkbox"/> AJAX Libraries API 117
<input type="checkbox"/> Cisco Systems, Inc. 427	<input type="checkbox"/> Google Analytics Classic 118
<input type="checkbox"/> Amazon AWS 424	<input type="checkbox"/> Adobe Creative Suite 116
<input type="checkbox"/> Akamai Technologies 412	<input type="checkbox"/> Microsoft Azure DNS 111
<input checked="" type="checkbox"/> Dyn Corporation 127	<input checked="" type="checkbox"/> Amazon AWS 120

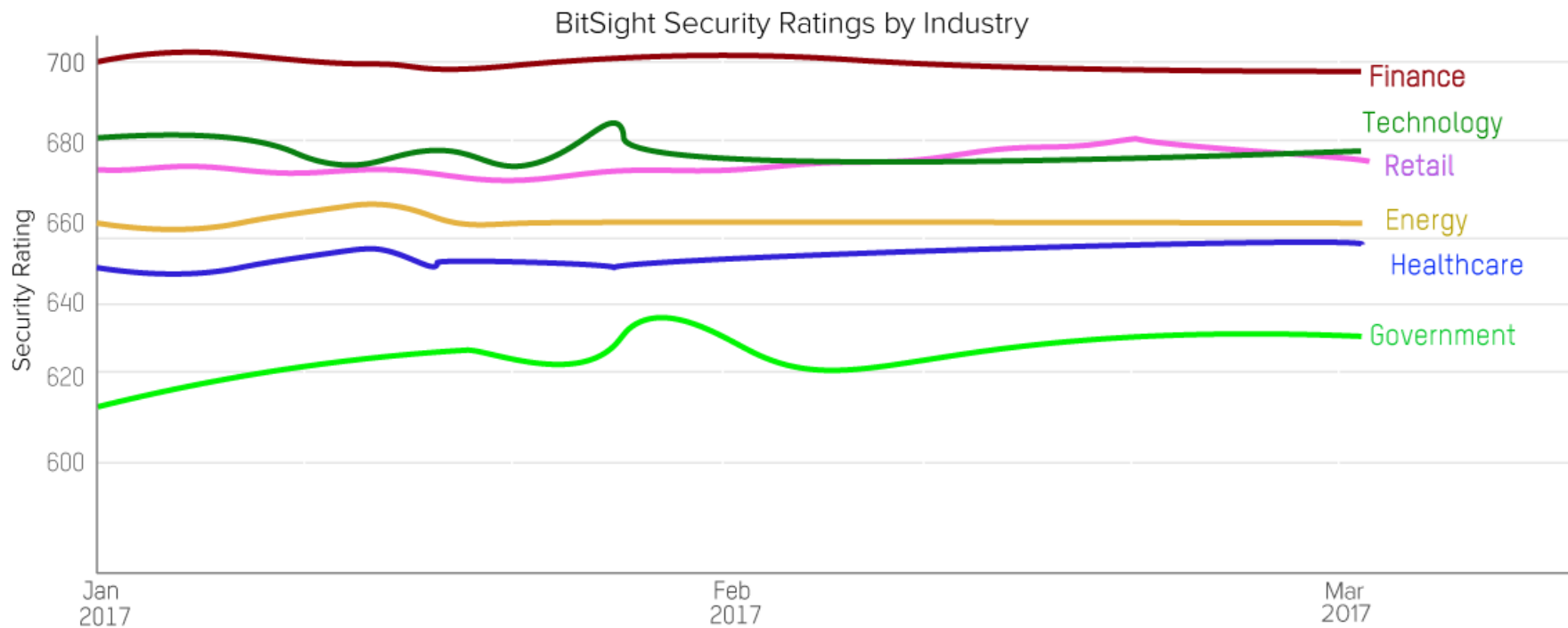
A background image showing a business meeting with several people in professional attire. Overlaid on this is a thick, multi-colored line graph that starts at the bottom left and trends upwards to the top right. The line is composed of several segments in shades of red, orange, yellow, and blue. The word "BITSIGHT" is written in a bold, blue, sans-serif font across the middle of the graph.

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International Risk



Q1 2017 Sector Performance



Questions?



Jay Jacobs

Senior Data Scientist,
BitSight



Jake Olcott

Vice President of Strategic
Partnerships,
BitSight



Aloysius Tan

Product Manager,
Information and Analytics,
Advisen

Thank you, panelists!



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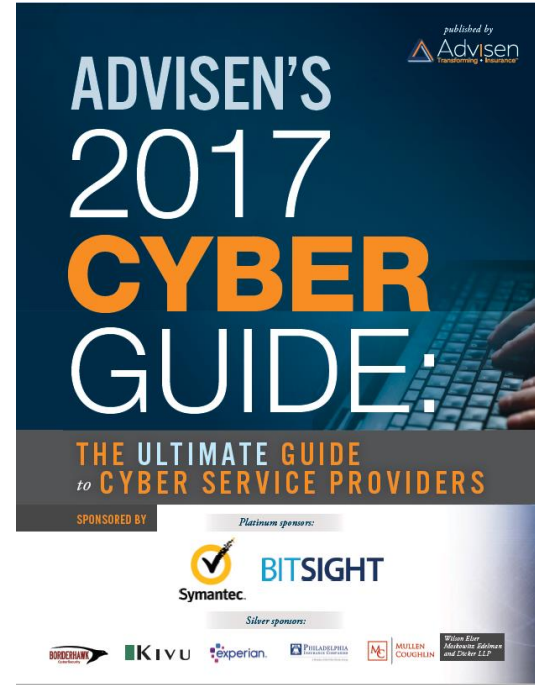
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