

www.pwc.com

The changing cybersecurity landscape for employee benefit plans

June 7th 2016

James Fox
Partner (Principal)
PricewaterhouseCoopers

pwc

Todays Discussion

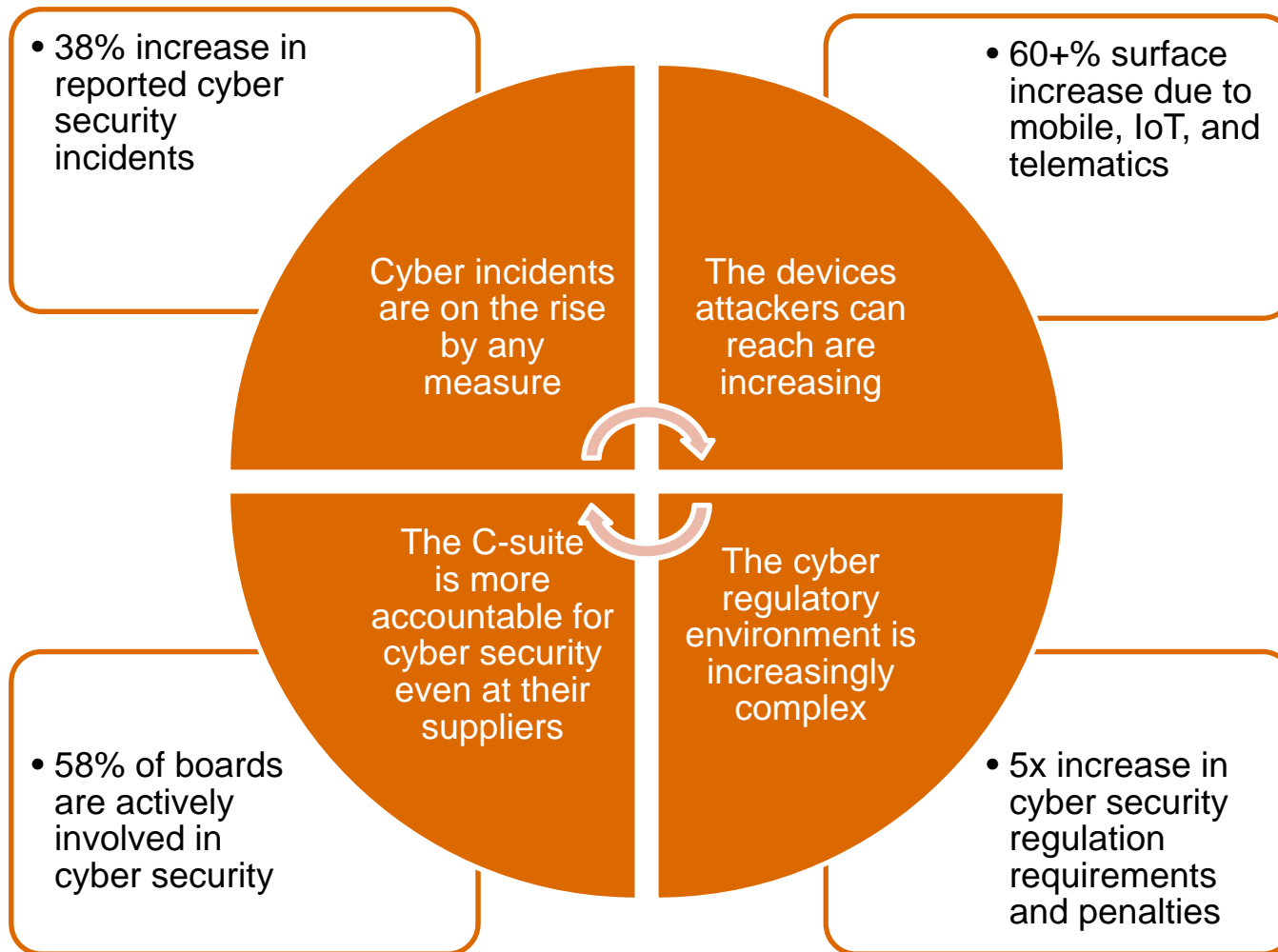
Cybersecurity in a perfect storm

The potential cost of ineffective cybersecurity

Three steps to improve cybersecurity posture



The cybersecurity perfect storm

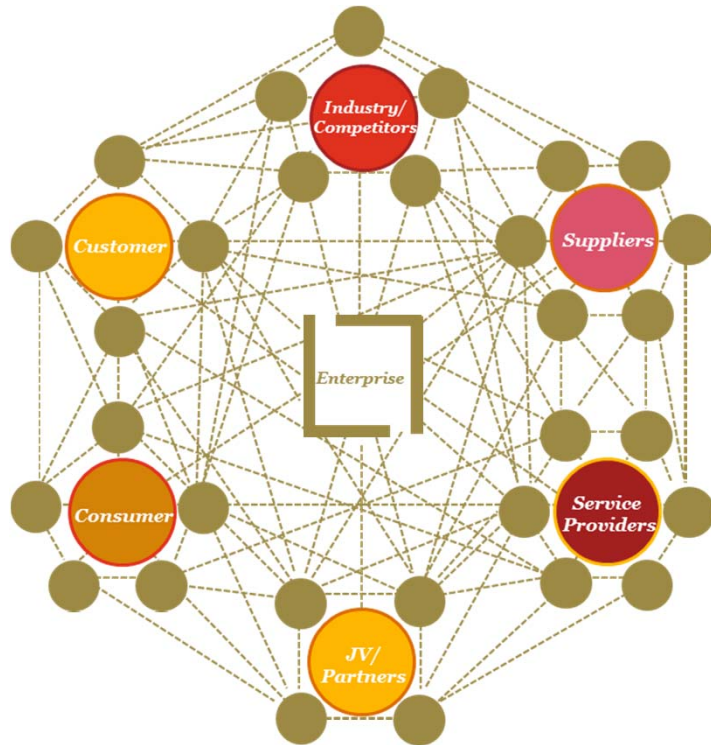


Source PwC 2016 Global cyber Security Survey



Benefit plans' network business model can increase cyber exposure

Benefit Plan Operational Ecosystem



Plan Sponsors typically service benefit plans internally and through the use of third party service providers. Although this increases efficiency, the cyber risks need to be understood and managed.

Plans may use a network of different service providers

The ecosystem is **built around a model of open collaboration and trust.**

Smaller plans may be more dependent upon 3rd parties and infrastructure they do not own

As a Result

Adversaries are actively targeting critical assets throughout the ecosystem—significantly increasing the exposure and impact to businesses.

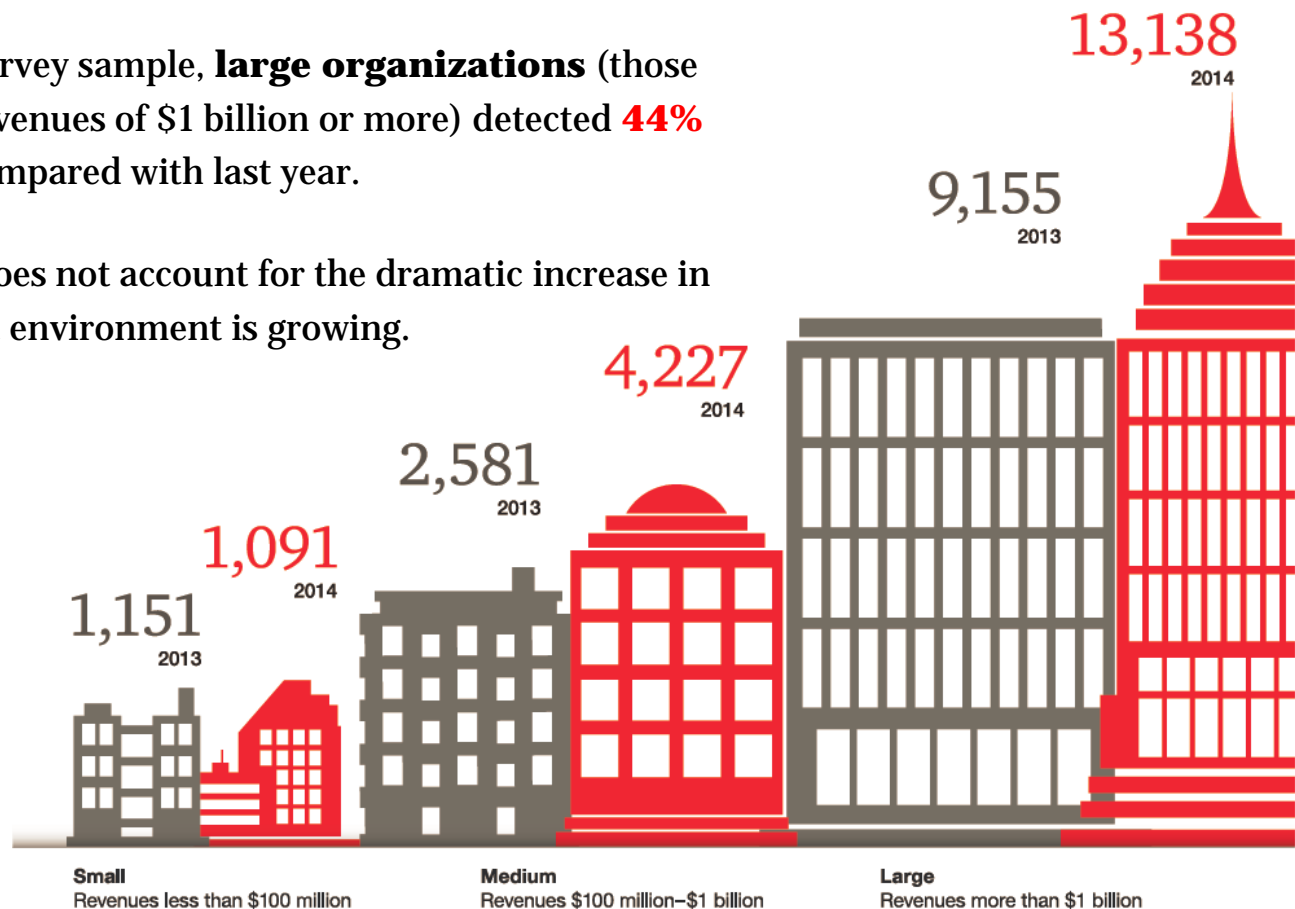


The number of incidents is on the rise...

Organizations reported a dramatic increase in the number of reported incidents Year on Year.





Among our global survey sample, **large organizations** (those with gross annual revenues of \$1 billion or more) detected **44% more incidents** compared with last year.

Measurement bias does not account for the dramatic increase in incidents. The threat environment is growing.





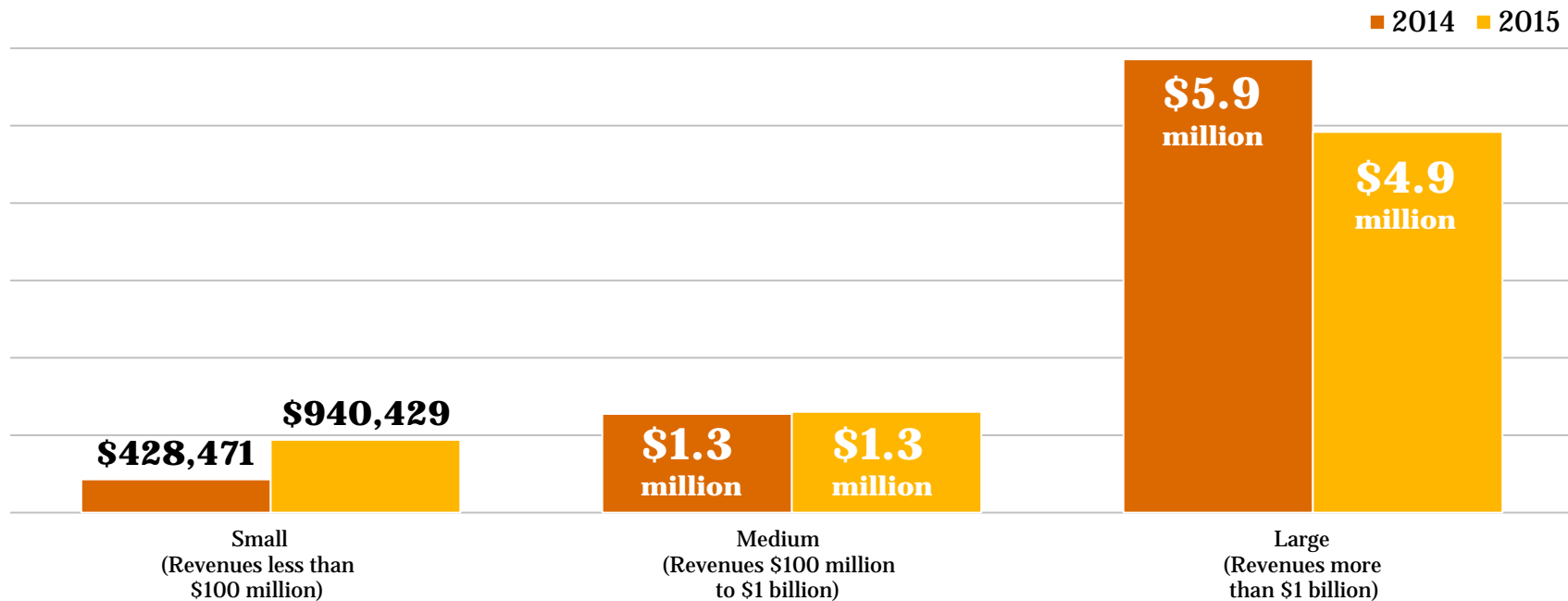
Threats come from a myriad of backgrounds and capabilities

Adversary	Motives	Targets	Impact
 Nation State	<ul style="list-style-type: none">• Economic, political and /or military advantage	<ul style="list-style-type: none">• Trade secrets• Sensitive business information• Emerging technologies• Critical infrastructure	<ul style="list-style-type: none">• Loss of competitive advantage• Disruption to critical infrastructure• Monetary loss
 Organized Crime	<ul style="list-style-type: none">• Illicit profit• Fraud• Identity theft	<ul style="list-style-type: none">• Financial / Payment Systems• Data breaches and intellectual property theft• Third-party service providers	<ul style="list-style-type: none">• Costly regulatory inquiries and penalties• Consumer and shareholder lawsuits• Loss of consumer confidence
 Hackers	<ul style="list-style-type: none">• Influence political and /or social change• Pressure business to change their practices	<ul style="list-style-type: none">• Corporate secrets• Sensitive business information• Information related to employees, customers & business partners	<ul style="list-style-type: none">• Disruption of business activities• Brand and reputation• Loss of consumer confidence
 Insiders	<ul style="list-style-type: none">• Personal advantage, monetary gain• Professional revenge• Patriotism	<ul style="list-style-type: none">• Sales, deals, market strategies• Corporate secrets, IP, R&D• Business operations• Personnel information	<ul style="list-style-type: none">• Trade secret disclosure• Operational disruption• Brand and reputation• National security impact



... and the financial costs of incidents can be significant

*Average **initial financial losses** due to security incidents – does not account for ongoing remediation and longer term financial expenditures*



Source : PwC – 2016 – Global State of Information Security Survey



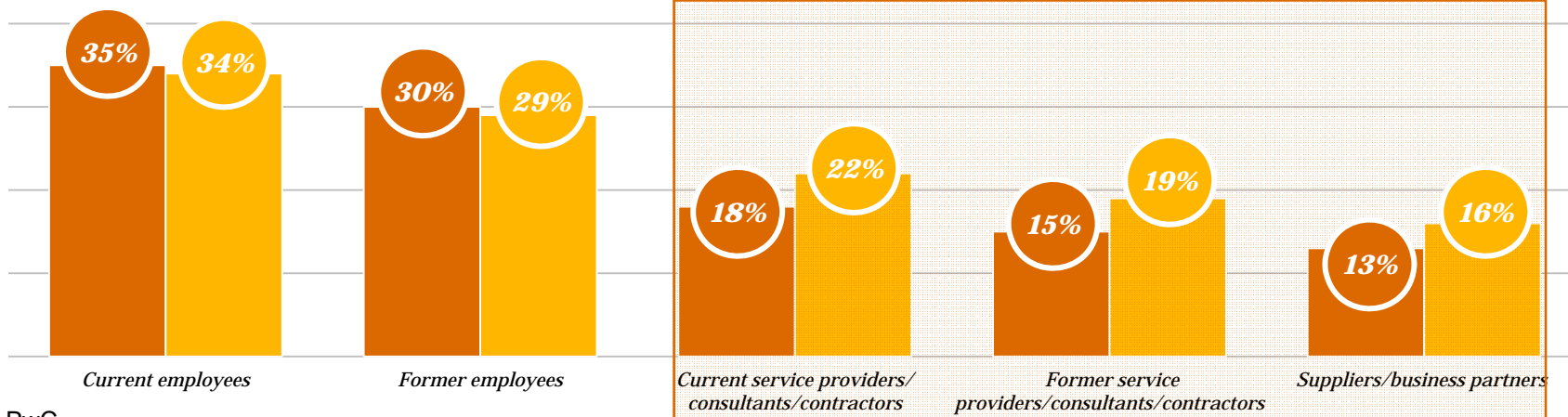
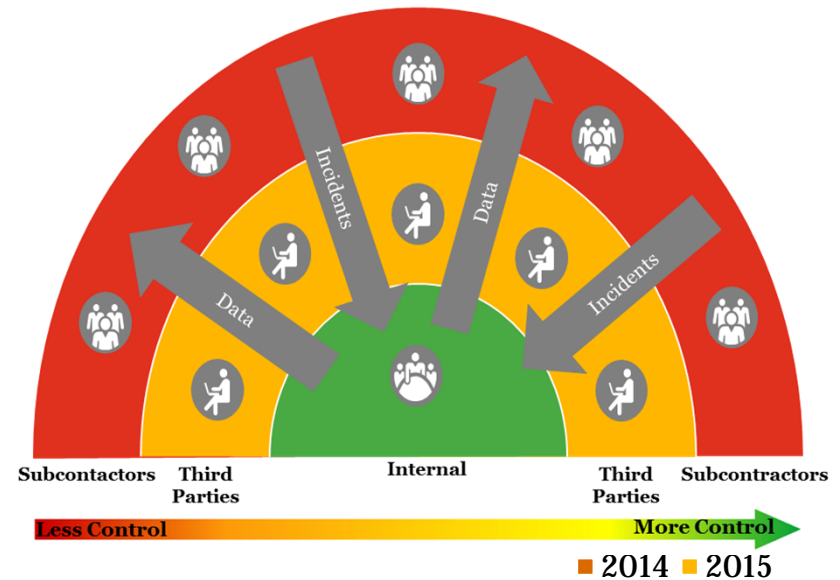
Third parties are often the weakest cybersecurity link

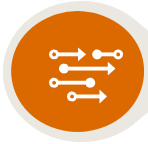
Third Parties will be overtaking internal vectors

Employees are still the most cited source of compromise, but incidents attributed to business partners continues to rise.

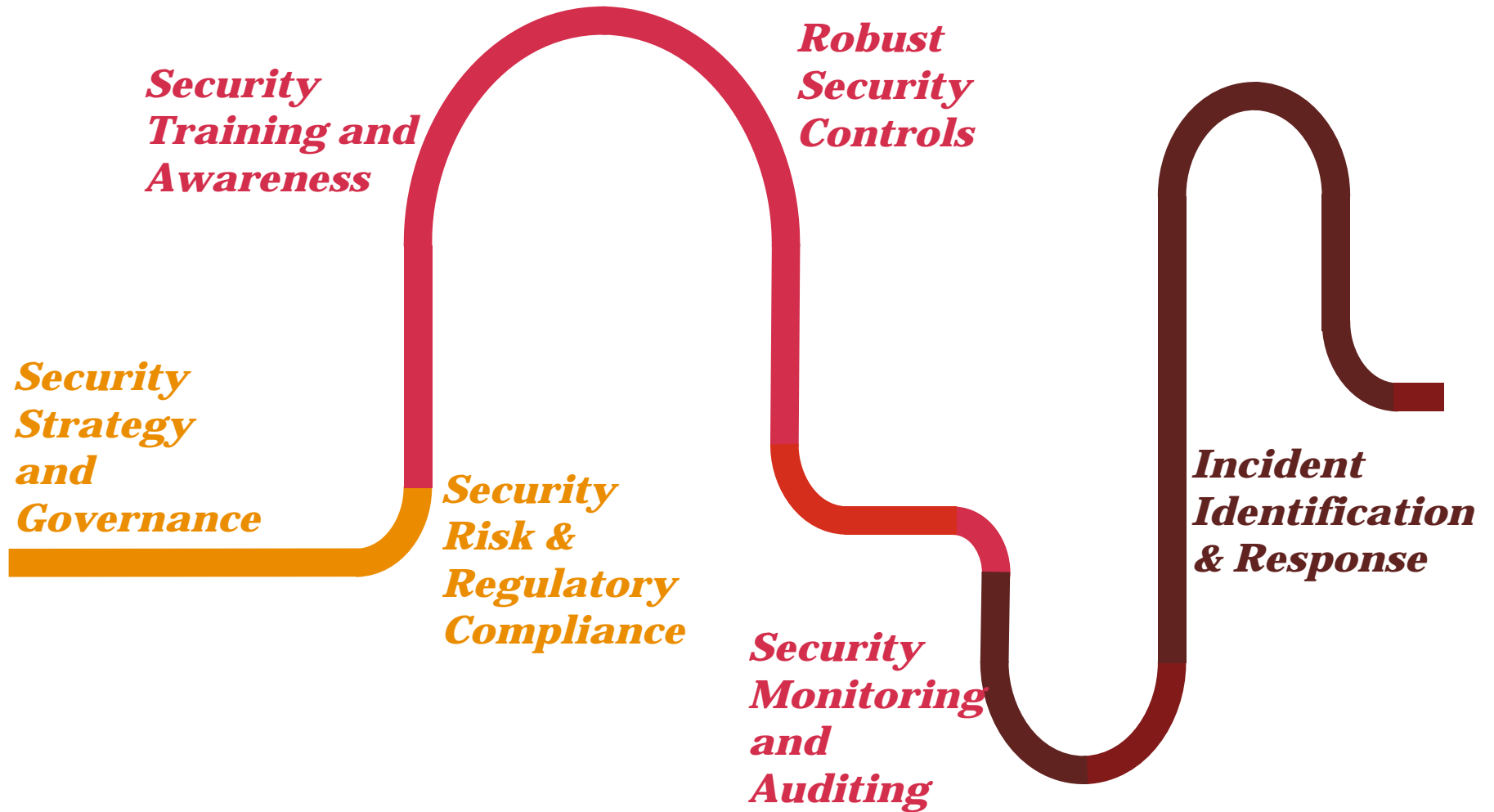
The so-what:

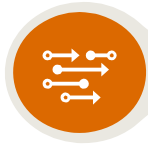
Organizations continue to experience an increased number of third party related breaches. As benefit plans outsource more of their processes and share data with service providers, they need a **means to monitor, measure and manage third party cybersecurity risk.**





Key cybersecurity program components





Three steps to an improved cybersecurity program

Develop a Risk-driven Cybersecurity Program



***Step 1
ID Threats and risks
to key business
drivers/assets***

Understand your critical systems (“Crown Jewels”), the potential impact of a compromise and relevant threats and risks against them.

***Step 2
Cybersecurity
program assessment***

Understand your current Cybersecurity program maturity, and the adequacy of your program’s capabilities using a threat and risk informed target-state. Identify any gaps to target.

***Step 3
Define initiatives and
a consolidated
roadmap***

Develop findings and a prioritized set of initiatives and program roadmap to address the gaps.

Thank you

James F. Fox

Partner (Principal)

james.fox@pwc.com

©2016 PricewaterhouseCoopers LLP, a Delaware limited liability partnership. All rights reserved.

This document contains information that is confidential and/or proprietary to PwC and may not be copied, reproduced, referenced, disclosed or otherwise utilized without obtaining express prior written consent from PwC in each instance.