

The FireEye logo is located in the top left corner, consisting of the word "FireEye" in a grey sans-serif font next to a light blue circular graphic element. The background of the slide features abstract geometric shapes in red, black, and white, along with a light blue gradient and thin white lines.

FireEye®

Commercial Practices for Cybersecurity

Understanding Today's Cyber Security Trends

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Lyle Sudin

- Manager of Security Consulting Services at Mandiant, a FireEye company
- First security job for Akamai starting in 2000
- 12 years in government funded R&D at BBN Technologies, now part of Raytheon
 - Developed cutting edge security technologies
 - Roles included Principal Investigator, manager, software developer, architect, integration engineer, and systems administrator
- 2.5 years as Senior Manager at HERE Technologies
 - Application security reviews, creation of a Security SDLC, and ISO 27001 certification
- 2+ years at Mandiant
 - Consulting manager for the North Central region
 - Focus is on strategic, proactive, and transformational activities

Mandiant Consulting, a FireEye company

Prevent, detect, & respond to advanced cyber-security events and protect your organization's critical assets.



Trusted by organizations worldwide – **Over 40%** of Fortune 100 companies¹



14+ years responding to and remediating headline breaches



Mandiant DNA – Pioneers in sophisticated incident response



Portfolio of services to **assess, enhance and transform** security posture and upskill internal security staff



Cutting-edge threat intelligence informed by frontline adversary exposure



Cyber security services enabled by purpose-built technology



Global workforce of over 300 consultants in 20+ countries

¹2017 Fortune list

So What? Who Cares?

- You will be hacked, what are you going to do about it?
 - Adversaries are professionals, organized, and well funded
 - Mandiant can help prepare you to deal with the incident
 - Identify and reduce security risks at all levels of the organization
- Best practice is to focus on detection and response
 - Create an investigation ready environment
 - Leverage threat intelligence
 - Develop layers of controls proportional to the data
 - People, processes, and technology are all required to mount an effective defense



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Questions?





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Thank You

The FireEye Ecosystem





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Additional Material

Evolving Threat Landscape



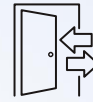
It's a "who,"
not a "what"

- There is a human at a keyboard
- Performing highly tailored and customized attacks
- Targeted specifically at you



Professional,
organized and
well funded

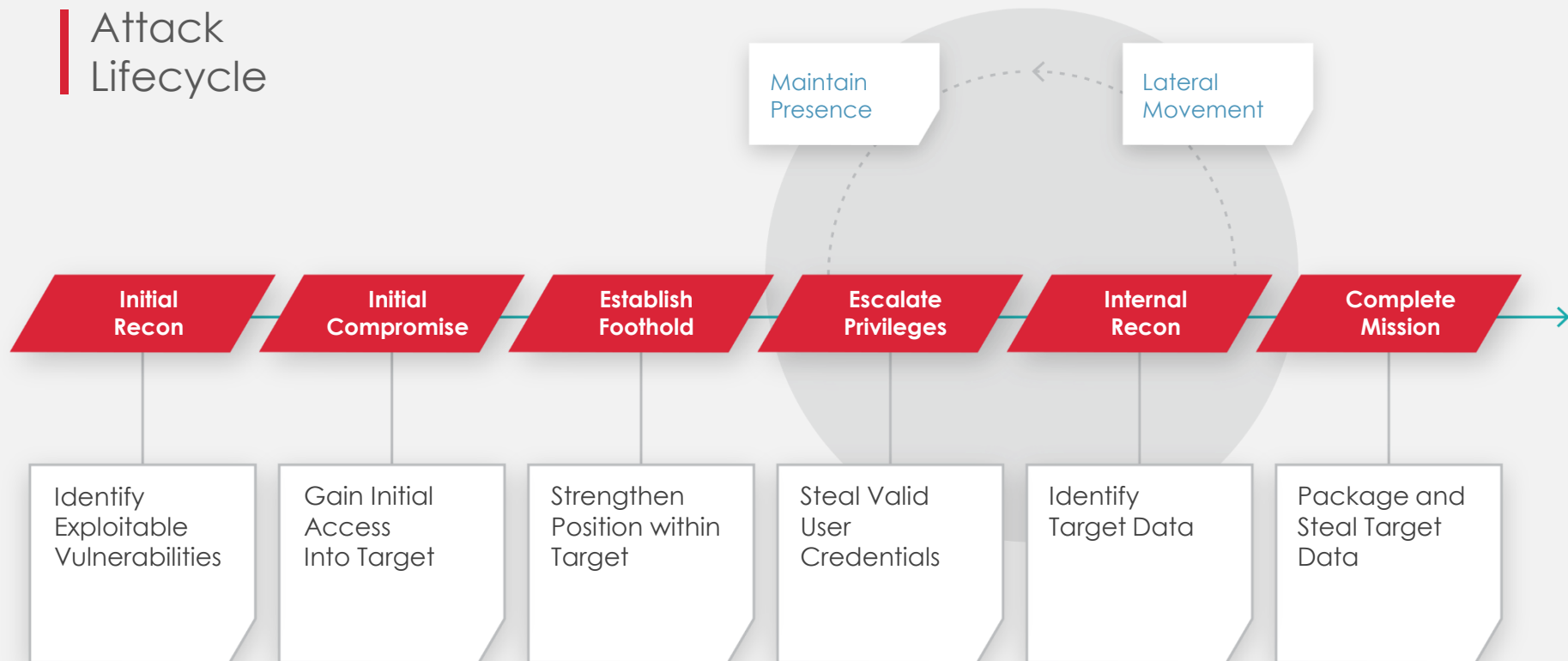
- Attackers escalate sophistication of their tactics as needed
- They remain relentlessly focused on their objective



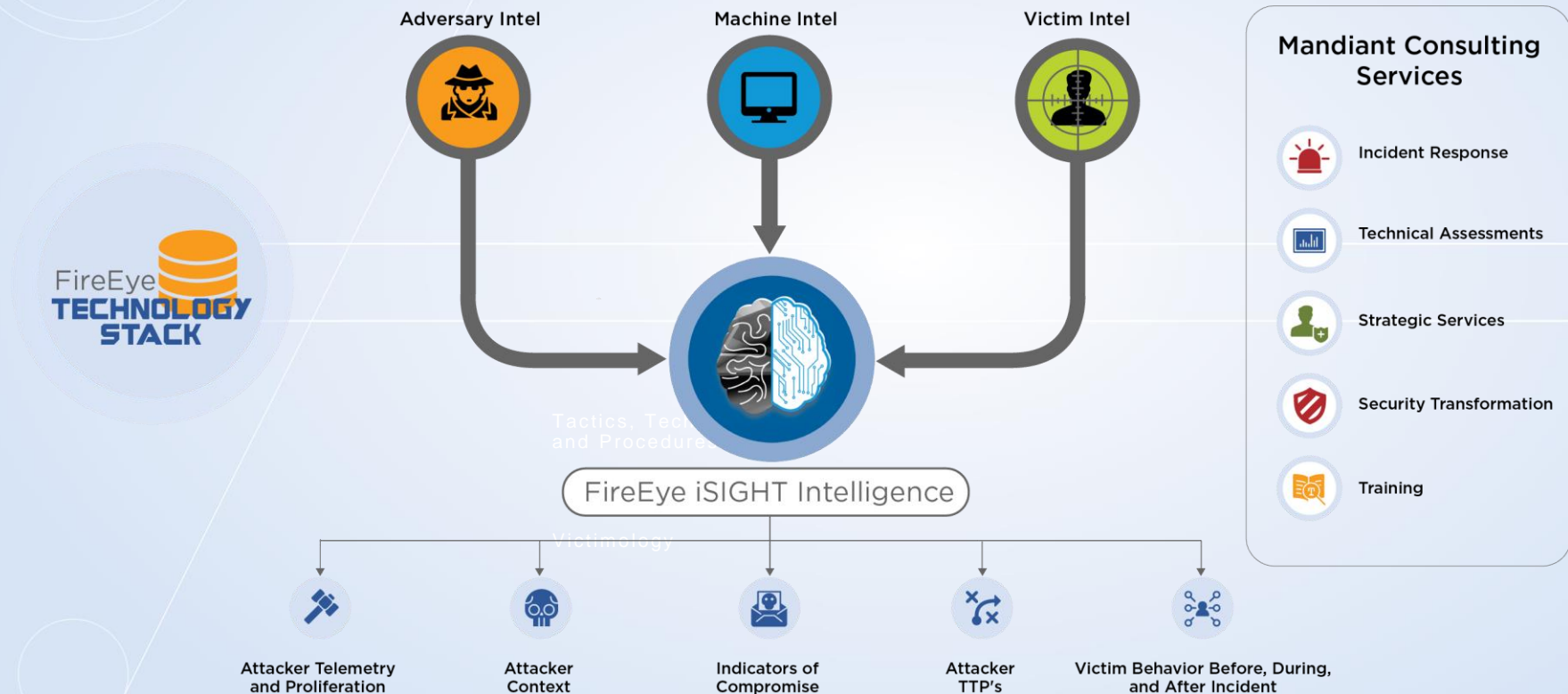
If you kick them
out they will
return

- They have specific objectives
- Their goal can be long-term occupation or short term destruction
- Their utilization of persistence tools and tactics ensure ongoing access

Attack Lifecycle



An Intelligence-Led Approach to Services



Security Needs Framework



7 Reasons to Have Mandiant on Speed Dial



1 INVESTIGATIVE
EXPERTISE



2 SPEED
AND SCALE



3 WORLD CLASS
THREAT INTELLIGENCE



4 CUSTOM TECHNOLOGY
OPTIONS



5 GLOBAL
FOOTPRINT



6 CRISIS MANAGEMENT
EXPERTISE



7 EXPERT STAFF AND
INNOVATIVE RESEARCH

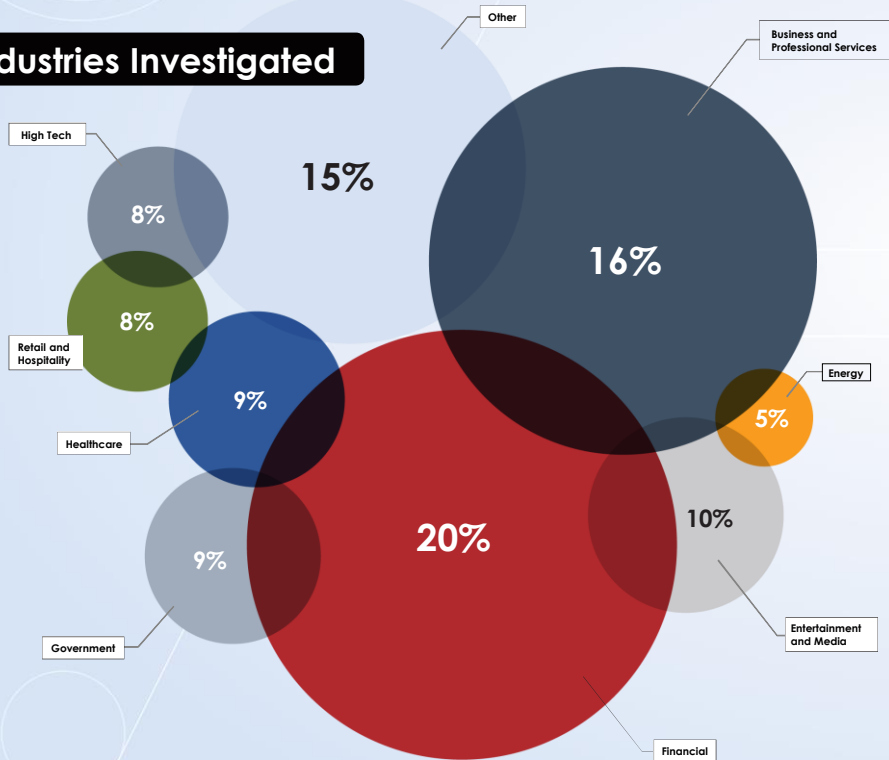
M-Trends: Tracking our investigative experience

- Informing the cyber security community since 2010
- Annual publication sought after by security professionals and market analysts
- Data based on **12 months of forensic investigative findings** (10/01/16 – 09/30/17)

² Ponemon Institute (2017). *Cost of Data Breach Study*.

Who's a Target

Industries Investigated

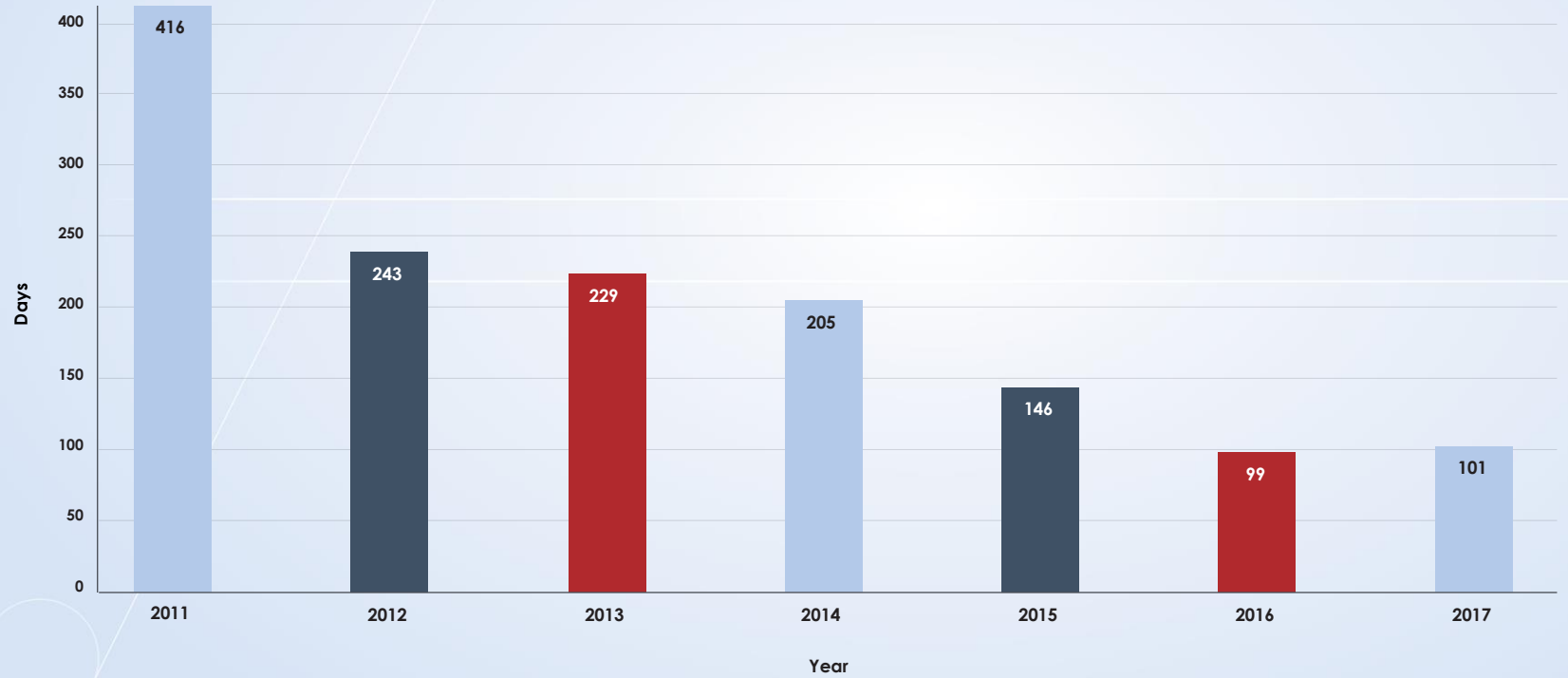


Organizations Investigated By Mandiant in 2017, By Industry

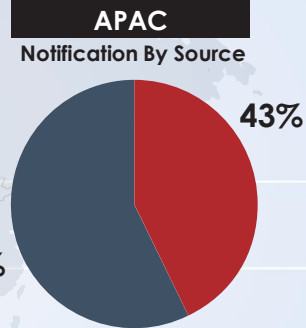
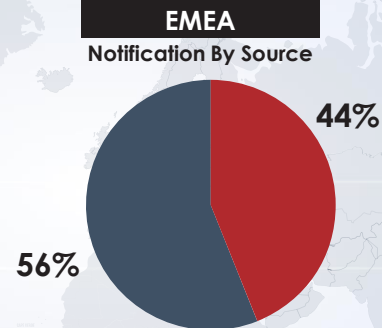
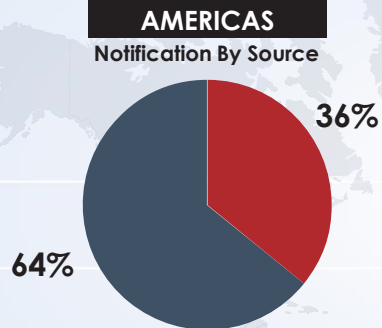
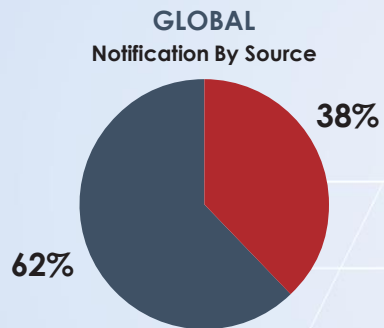
Industry	Americas	APAC	EMEA	Global
Business and Professional Services	18%	10%	12%	16%
Energy	5%	2%	7%	5%
Entertainment and Media	11%	7%	5%	10%
Financial	17%	39%	24%	20%
Government	6%	7%	18%	8%
Healthcare	12%	2%	2%	9%
High Tech	9%	10%	7%	8%
Retail and Hospitality	10%	2%	4%	8%
Other	12%	20%	22%	15%

Median Dwell Time Trending

Median Dwell Time, By Year



Notification by Source



KEY

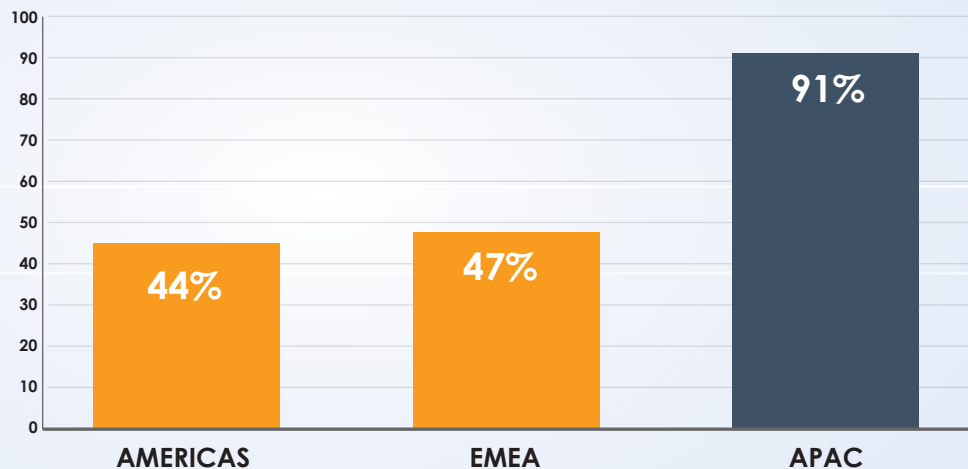
- Internal
- External

Once a Target, Always a Target

56%

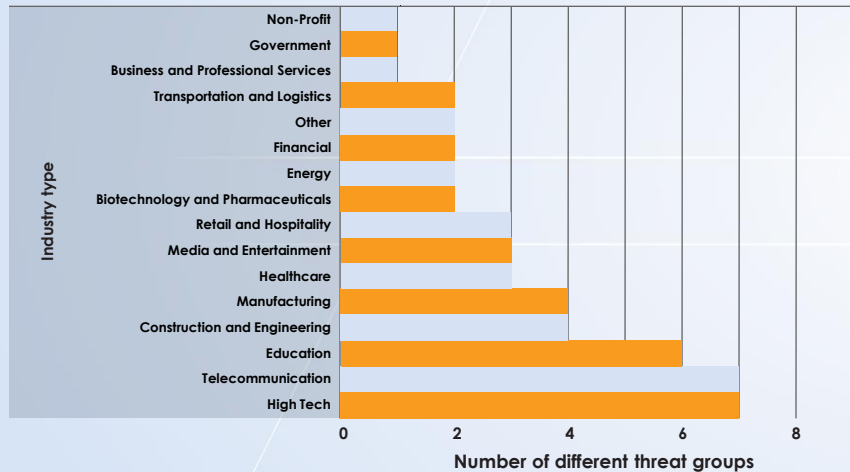
victims subsequently
retargeted

Victims subsequently retargeted by region

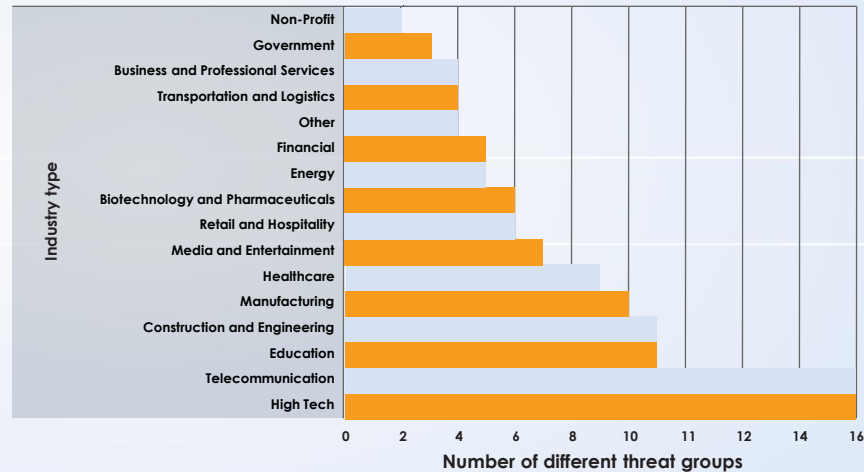


Once a Target, Always a Target, by industry

Customer industries targeted by multiple threat groups



Customer industries by number of significant attacks



Enduring Trends in Security Fundamentals



Security Risk Management



Identity and Access Mgmt



Data Protection



Network, Cloud and DC Protection



Incident Response



Host and Endpoint Protection

Cyber Security Skills Gap – The Invisible Risk

Growing skills shortage

- Demand for specialized skills rapidly outpacing supply
- Lack of visibility and detection
- Lack of specialized skill-sets

Recommendations

- Enhance current capabilities through process improvement and staff training
- Automate overhead processes
- Outsource niche functions to specialized service providers